



PALMDALE WATER DISTRICT

2029 East Avenue Q • Palmdale, California 93550 • Telephone (661) 947-4111
Fax (661) 947-8604
www.palmdalewater.org

Board of Directors

ROBERT E. ALVARADO
Division 1

GORDON G. DEXTER
Division 2

GLORIA DIZMANG
Division 3

KATHY MAC LAREN
Division 4

STEVE R. CORDOVA
Division 5

LAGERLOF, SENECA, GOSNEY & KRUSE LLP
Attorneys



September 7, 2012

*Agenda for Regular Meeting
of the Board of Directors of the Palmdale Water District
to be held at the District's office at 2029 East Avenue Q, Palmdale
Wednesday, September 12, 2012
7:00 p.m.*

NOTE: To comply with the Americans with Disabilities Act, to participate in any Board meeting please contact Dawn Deans at 661-947-4111 x1003 at least 48 hours prior to a Board meeting to inform us of your needs and to determine if accommodation is feasible.

Agenda item materials, as well as materials related to agenda items submitted after distribution of the agenda packets, are available for public review at the District's office located at 2029 East Avenue Q, Palmdale. Please call Dawn Deans at 661-947-4111 x103 for public review of materials.

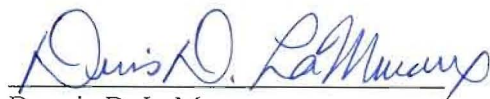
PUBLIC COMMENT GUIDELINES: The prescribed time limit per speaker is three-minutes. Please refrain from public displays or outbursts such as unsolicited applause, comments, or cheering. Any disruptive activities that substantially interfere with the ability of the District to carry out its meeting will not be permitted and offenders will be requested to leave the meeting.

Each item on the agenda shall be deemed to include any appropriate motion, resolution, or ordinance to take action on any item.

- 1) Pledge of Allegiance.
- 2) Roll Call.
- 3) Adoption of Agenda.
- 4) Public comments for non-agenda items.
- 5) Presentations:
 - 5.1) No presentations scheduled.

- 6) Action Items - Consent Calendar (The public shall have an opportunity to comment on any action item as each item is considered by the Board of Directors prior to action being taken.)
 - 6.1) Approval of minutes of regular meeting held August 22, 2012.
 - 6.2) Payment of bills for September 12, 2012.
- 7) Action Items - Action Calendar (The public shall have an opportunity to comment on any action item as each item is considered by the Board of Directors prior to action being taken.)
 - 7.1) Status report on Cash Flow Statement and Current Cash Balances as of July, 2012. (Financial Advisor Egan)
 - 7.2) Status report on 2012 Financial Statements, Revenue and Expense and Departmental Budget Reports for July, 2012. (Finance Manager/CFO Williams)
 - 7.3) Status report on committed contracts issued. (Engineering Manager Knudson)
 - 7.4) Consideration and possible action on Resolution No. 12-13 Honoring and Congratulating The Retirees of 2012. (General Manager LaMoreaux)
 - 7.5) Consideration and possible action on the Cash-in-Lieu of Medical Insurance Program. (General Manager LaMoreaux)
 - 7.6) Consideration and possible action on AVBOT membership. (General Manager LaMoreaux)
 - 7.7) Consideration and possible action on Agreement with Starnik for the use of Utility TrakR customer service information software. (Finance Manager/CFO Williams)
 - 7.8) Consideration and possible action on revisions made to the Rules and Regulations in regards to Late Charges. (Finance Manager/CFO Williams)
 - 7.9) Consideration and possible action on Professional Services Agreement with Black & Veatch for the update of the Watershed Sanitary Survey and Source Water Assessment. (\$46,550 – Water Quality Fund – Engineering Manager Knudson)
 - 7.10) Consideration and possible action on maintenance agreement for periodic and preventative maintenance of wind turbine. (\$8,500/year – Budgeted – Engineering Manager Knudson/Facilities Committee)
 - 7.11) Consideration and possible action on Board and staff attendance at conferences, seminars, and training sessions as follows:
 - 7.11.1) CA-NV AWWA Annual Fall Conference 2012 to be held October 8-11, 2012 in San Diego.
 - 7.11.2) ACWA's 2012 Fall Conference & Exhibition to be held December 4-7, 2012 in San Diego.
 - 7.11.3) North American Lake Management Society to be held November 7-9, 2012 in Madison, Wisconsin.
- 8) Information Items:
 - 8.1) Reports of Directors: Meetings, Committee meetings, and general report.
 - 8.2) Report of General Manager.
 - 8.2. (a) District vacancies.

- 8.3) Report of Attorney.
- 9) Public comments on closed session agenda matters.
- 10) Closed session under:
 - 10.1) Government Code Section 54956.9(a), existing litigation: *Antelope Valley Ground Water Cases*.
 - 10.2) Government Code Section 54956.9(a), existing litigation: *City of Palmdale vs. Palmdale Water District, Case No. BC413432 (Rate Litigation)*.
 - 10.3) Government Code Section 54956.9(a), existing litigation: *City of Palmdale vs. Palmdale Water District and Palmdale Water District Public Facilities Corporation, Case No. BC413907 (Validation Action)*.
 - 10.4) Government Code Section 54956.9(a), existing litigation: *Palmdale Water District vs. City of Palmdale, Case No. BC420492 (Recycled Water Litigation)*.
 - 10.5) Government Code Section 54956.9(a), existing litigation: *United States, et al. v. J-M Manufacturing Company, Inc., et al., United States District Court for the Central District of California Case No. ED CV06-0055-GW*.
 - 10.6) Government Code Section 54956.9(a), pending litigation: *Central Delta Water Agency vs. Department of Water Resources, Sacramento Superior Court Case No. 34-2010-80000561*.
 - 10.7) Government Code Section 54956.9(a), pending litigation: *Velez v. City of Palmdale, et al, Los Angeles Superior Court Case No. NC023216*.
- 11) Public report of any action taken in closed session.
- 12) Board members' requests for future agenda items.
- 13) Adjournment.



Dennis D. LaMoreaux,
General Manager

DDL/dh

**PALMDALE
WATER DISTRICT
BOARD MEMORANDUM**

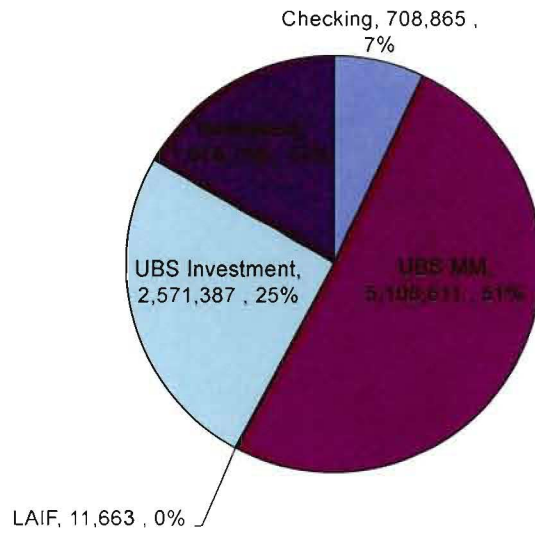
DATE: September 5, 2012 September 12, 2012
TO: BOARD OF DIRECTORS Board Meeting
FROM: Mr. Bob Egan, Financial Advisor
RE: *AGENDA ITEM NO. 7.1 – STATUS REPORT ON CASH FLOW STATEMENT
AND CURRENT CASH BALANCES AS OF JULY, 2012*

Attached is the Investment Funds Report and current cash balance as of July, 2012. The reports will be reviewed in detail at the Board Meeting.

DESCR			July 31, 2012			July-12	June-12
A/C #						VALUE	VALUE
CASH							
0-0103	Citizens/US Bank - Checking					645,792.34	218,193.95
0-0104	Citizens- Merchant					59,372.38	60,139.94
			Bank cash			705,164.72	278,333.89
0-0119	PETTY CASH					300.00	300.00
0-0120	CASH ON HAND					3,400.00	3,400.00
	TOTAL CASH					708,864.72	282,033.89
INVESTMENTS							
0-0110	UBS ACCOUNT SS 11469 GG						
	UBS RMA Government Portfolio					2,881,906.66	3,480,638.97
	UBS Bank USA Dep acct					250,000.00	250,000.00
						3,131,906.66	3,730,638.97
0-1110	UBS ACCOUNT SS 11475 GG						
	UBS Bank USA Dep acct					250,000.00	250,000.00
	UBS RMA Government Portfolio					1,726,704.50	1,726,680.17
						1,976,704.50	1,976,680.17
0-0115	LAIF					11,662.57	11,652.22
0-0111	UBS ACCOUNT SS 11432 GG						
	UBS Bank USA Dep acct					250,000.00	250,000.00
	UBS RMA Government Portfolio					794,140.80	791,672.01
	Accrued interest					4,085.80	6,907.95
	US GOVERNMENT SECURITIES:						
	ISSUE	ISSUER	EXPIR	RATE	PAR	MARKET	MARKET
	DATE		DATE			VALUE	VALUE
		FHLB	10/26/15	1.625	500,000	520,135.00	517,905.00
		FHLB	03/28/17	1.00	500,000	500,725.00	501,045.00
		FNMA	07/17/17	1.20	500,000	502,300.00	
					1,500,000.00	1,523,160.00	1,519,480.00
	TOTAL MANAGED ACCOUNT					2,571,386.60	2,568,059.96
	TOTAL INVESTMENTS					7,691,660.33	8,287,031.32
	TOTAL UNRESTRICTED CASH					8,400,525.05	8,569,065.21
RESTRICTED CASH							
0-1120	1998 Debt Reserve Fund						
	FHLB par 1.4Mil matures 10/18/13 3.625% interest					1,456,756.00	1,459,486.00
	Federated Treasury Obligation MM					207,481.67	207,481.67
	Accrued interest					14,520.13	10,290.97
	TOTAL Restricted CASH					1,678,757.80	1,677,258.64
	GRAND TOTAL CASH AND RESTRICTED CASH					10,079,282.85	10,246,323.85
		Checking		708,865			
		UBS MM		5,108,611			
		LAIF		11,663			
		UBS Investment		2,571,387			
		Restricted		1,678,758			
		Total		10,079,283			

PALMDALE WATER DISTRICT
INVESTMENT FUNDS REPORT

7/31/2012



REVISED 09/05/12	2012 January	2012 February	2012 March	2012 April	2012 May	2012 June	2012 July	2012 August	2012 September	2012 October	2012 November	2012 December	YTD
Water Sales	1,407,565	1,436,524	1,558,529	1,497,910	1,650,872	2,005,547	2,291,232	2,412,812	2,335,331	1,983,766	1,941,288	1,556,933	22,078,309
	1,407,565	1,436,524	1,558,529	1,497,910	1,650,872	2,005,547	2,291,232	2,412,812	2,335,331	1,983,766	1,941,288	1,556,933	
Beginning Balance	9,581,172	10,345,101	9,804,471	8,086,077	9,219,435	10,240,691	10,246,324	10,079,283	9,736,650	7,050,732	7,028,998	7,128,028	
Water Receipts	1,689,691	1,424,941	1,673,663	1,522,158	1,589,687	1,863,677	2,042,046	2,364,180	2,366,323	2,124,392	1,958,279	1,710,675	22,329,712
Other													
Total Operating Revenue	1,689,691	1,424,941	1,673,663	1,522,158	1,589,687	1,863,677	2,042,046	2,364,180	2,366,323	2,124,392	1,958,279	1,710,675	
Operating Expenses:													
Total Operating Expenses excl GAC	1,262,300	1,771,202	1,784,873	1,418,678	1,416,937	1,705,314	1,693,126	2,094,814	1,420,932	1,482,701	1,411,243	1,546,592	19,008,712
													3,321,000
Non-Operating Revenue Expenses:													
Assessments, net	476,956	134,001	7,936	1,496,518	696,673	2,854	401,253	145,546			150,420	1,942,219	5,454,377
Special Avek CIF Payment													0
Interest	6,501	650	1,860	1,849	1,539	2,157	4,864	3,909	2,000	2,000	2,000	2,000	31,330
Grant Re-imbursement													0
Capital Improvement Fees	693,287	0	0	0	531,216	30,923	0						1,255,426
													0
DWR Refund					36,235	257,410							293,645
Other /Palmdale Redevel Agency		44,554	11,229	11,229	13,118	124,953	16,981	12,000	12,000	12,000	12,000	12,000	282,064
Total Non-Operating Revenues	1,176,744	179,205	21,025	1,509,596	1,278,781	418,297	423,098	161,455	14,000	14,000	164,420	1,956,219	7,316,842
Capital Expenditures	(273,428)	(268,365)	(190,677)	(323,525)	(86,084)	(414,837)	(93,229)	(271,931)	(343,925)	(324,000)	(259,000)	(164,000)	(3,013,001)
GAC					(219,829)		(213,723)	(216,776)	(217,991)	(216,776)	(216,776)		(1,301,871)
SWP Capitalized	(566,283)	(104,714)	(129,747)	(118,652)	(118,650)	(118,650)	(611,172)	(118,650)	(148,298)	(118,649)	(118,650)	(118,650)	(2,390,765)
Prepaid Insurance (paid) refunded			(64,852)					(148,097)					(212,949)
Bond Payments Interest			(1,207,096)						(1,207,096)				(2,414,192)
Principal									(1,220,000)				(1,220,000)
System Work for AVEK													0
Butte payments									(490,000)				(490,000)
Capital leases	(495)	(495)	(35,838)	(37,540)	(5,712)	(37,540)	(20,936)	(18,000)	(18,000)	(18,000)	(18,000)	(18,000)	(228,556)
Legal adjudication fees													0
													0
Total Cash Ending Balance	10,345,101	9,804,471	8,086,077	9,219,435	10,240,691	10,246,324	10,079,283	9,736,650	7,050,732	7,028,998	7,128,028	8,947,680	(11,271,334)
actual cash											Budget	8,100,000	(633,492)
											diff	(847,680)	

PALMDALE WATER DISTRICT BOARD MEMORANDUM

DATE:	September 5, 2012	September 12, 2012
TO:	BOARD OF DIRECTORS	Board Meeting
FROM:	Michael Williams, Finance Manager/CFO	
VIA:	Mr. Dennis LaMoreaux, General Manager	
RE:	<i>AGENDA ITEM 7.2 - STATUS REPORT ON 2012 FINANCIAL STATEMENTS, REVENUE AND EXPENSE AND DEPARTMENTAL BUDGET REPORTS FOR JULY, 2012</i>	

Discussion:

Presented here are the Balance Sheet and Profit/Loss Statement for the period ending July 31, 2012. Also included are Year-To-Year comparisons, and Month-To-Month comparisons for both revenue and expense. Finally, I have provided individual departmental budget reports through the month of July, 2012.

With 7 months of the budget year complete, target percentages should be at or below 58.3% for expenditures and at or above that mark for revenue. I will discuss some areas of the statements during the presentation.

Balance Sheet:

- Page 1 is our balance sheet on July 31, 2012. Our Accounts Receivables are up \$286K, due to increase water sales in July. We have booked our Assessments Receivable for the fiscal year so there is an increase of \$4.5 Million. Those two combined increased our assets by \$4.8 Million. The offset to that can be seen mostly in the Deferred Assessments.

Profit/Loss Statement:

- Page 3 is our profit/loss statement on July 31, 2012.
- Operating revenue is at 54% of budget
- Cash operating expense is at 53% of budget.
- All departments are operating at 57% of budget or lower.
- One change in presentation: The refunds from DWR have been removed from the Water Recovery Line and presented separately under Non-Operating Revenue.

Year-To-Year Comparison P&L:

- Page 7 is our comparison of July 2011 to July 2012.
- Total operating revenue is up by \$191K or 9.13%.
- Operating expenditures are down by \$703K or 19.9%.

- Page 8 is a graphic presentation of the water consumption comparison. Units billed were up 202 units or 9.9% with total revenue per unit consumed down by \$0.02 or 0.71%. There were 98 more active connections this July compared to last year.

Revenue Analysis Year-To-Date:

- Page 9 is our comparison of revenue, year to date.
- Operating revenue is up in 2012 by \$227k or 1.95% compared to 2011. In addition, looking at strictly our water sales revenue we continue to exceed last year's levels by \$441K.
- Total revenue is up \$901K or 5.7%. This is due to the Capital Improvement Fees received.
- The change in presentation of DWR Refunds is also highlighted.

Expense Analysis Year-To-Date:

- Page 11 is our comparison of expense, year to date.
- Cash Operating Expenses in 2012 are up by \$360K or 3% compared to 2011.
- Total Expenses are up in 2012 by \$994k or 5.5% compared to 2011.

Departments:

- Pages 14 through 22 are detailed budgets of each department. As stated earlier, all departments are below the target 58.3% and there are no significant events to discuss.

Non-Cash Definitions

Depreciation: This is the spreading of the total expense of a capital asset over the expected life of that asset.

OPEB Accrual Expense: Other Post Employment Benefits (OPEB) is the recognized annual required contribution to the benefit. The amount is actuarially determined in accordance with the parameters of GASB 45. The amount represents a level of funding that, if paid on an ongoing basis, is projected to cover normal cost each year.

Bad Debt: The uncollectible accounts receivable that has been written off.

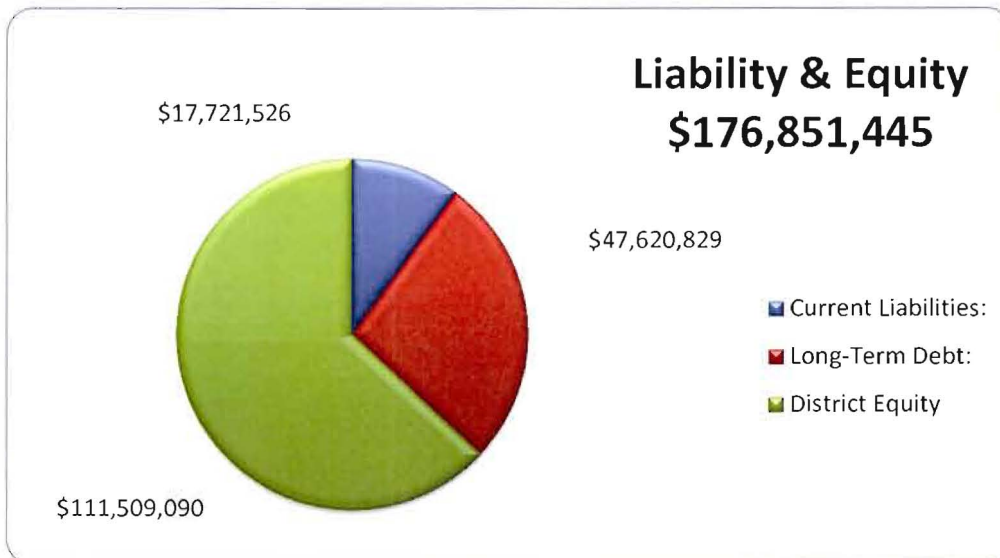
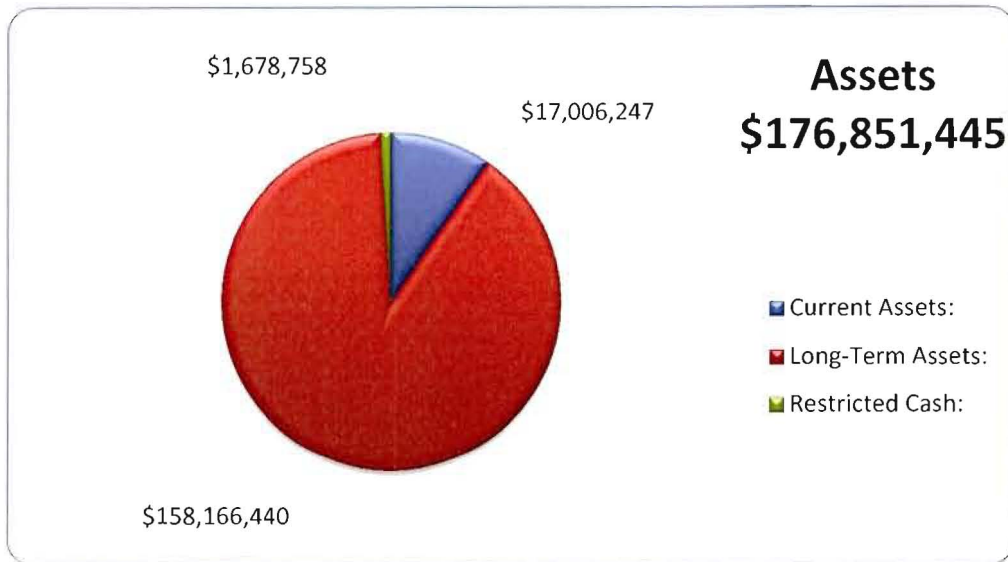
Service Cost Construction: The value of material, parts & supplies from inventory used to construct, repair and maintain our asset infrastructure.

Capitalized Construction: The value of our labor force used to construct our asset infrastructure.

Palmdale Water District
Balance Sheet Report
For the Seven Months Ending 7/31/2012

	July 2012	June 2012
ASSETS		
Current Assets:		
Cash and Cash Equivalents	\$ 710,326	\$ 282,034
Investments	7,669,562	8,264,943
Market Adjustment	-	-
	<u>\$ 8,379,888</u>	<u>\$ 8,546,977</u>
Receivables:		
Accounts Receivables - Water Sales	\$ 2,157,973	\$ 1,871,654
Accounts Receivables - Miscellaneous	69,841	59,789
Allowance for Uncollected Accounts	(264,336)	(264,336)
	<u>\$ 1,963,478</u>	<u>\$ 1,667,106</u>
Interest Receivable	\$ -	\$ -
Assessments Receivables	5,774,033	1,175,287
Meters, Materials and Supplies	662,977	667,042
Prepaid Expenses	225,872	103,561
Total Current Assets	<u>\$ 17,006,247</u>	<u>\$ 12,159,973</u>
Long-Term Assets:		
Property, Plant, and Equipment, net	\$ 121,744,146	\$ 122,254,045
Participation Rights in State Water Project, net	35,740,241	35,258,014
Bond Issuance Cost, Net	682,053	685,211
	<u>\$ 158,166,440</u>	<u>\$ 158,197,270</u>
Restricted Cash:		
Debt Reserve Fund - 1998 Bonds	\$ 1,678,758	\$ 1,677,259
Rate Stabilization Fund	-	-
Installment Payment Account - 2004 Bonds	-	-
Installment Payment Account - 1998 Bonds	-	-
	<u>\$ 1,678,758</u>	<u>\$ 1,677,259</u>
Total Long-Term Assets & Restricted Cash	<u>\$ 159,845,198</u>	<u>\$ 159,874,528</u>
Total Assets	<u>\$ 176,851,445</u>	<u>\$ 172,034,501</u>
LIABILITIES AND DISTRICT EQUITY		
Current Liabilities:		
Current Interest Installment of Long-term Debt	\$ 804,730	\$ 603,548
Current Principal Installment of Long-term Debt	1,220,000	1,220,000
Accounts Payable and Accrued Expenses	5,643,766	5,024,637
OPEB Liability	5,469,703	5,334,014
Deferred Assessments	4,583,326	(6)
Total Current Liabilities	<u>\$ 17,721,526</u>	<u>\$ 12,182,192</u>
Long-Term Debt:		
1998 - Certificates of Participation	\$ 11,817,907	\$ 11,812,779
2004 - Certificates of Participation	35,802,922	35,803,836
Total Liabilities	<u>\$ 65,342,355</u>	<u>\$ 59,798,807</u>
District Equity		
Revenue from Operations	\$ (2,226,574)	\$ (1,499,970)
Retained Earnings	113,735,664	113,735,664
Total Liabilities and District Equity	<u>\$ 176,851,445</u>	<u>\$ 172,034,501</u>

BALANCE SHEET AS OF JULY 31, 2012

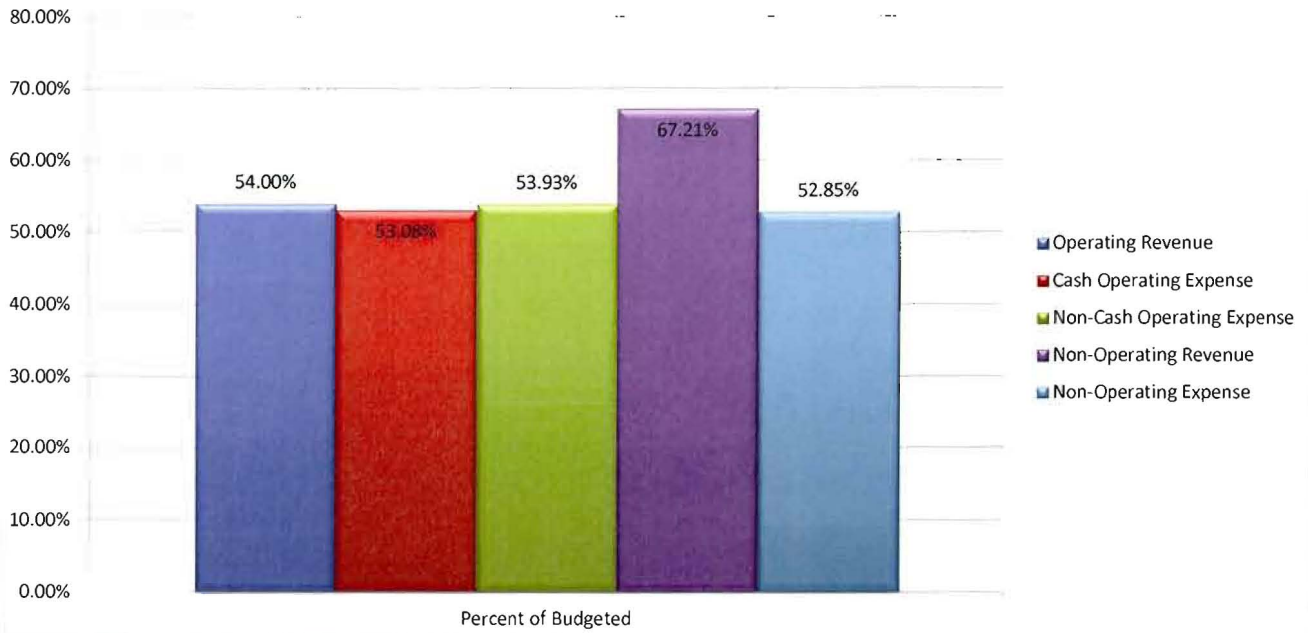


Palmdale Water District
Consolidated Profit and Loss Statement
For the Seven Months Ending 7/31/2012

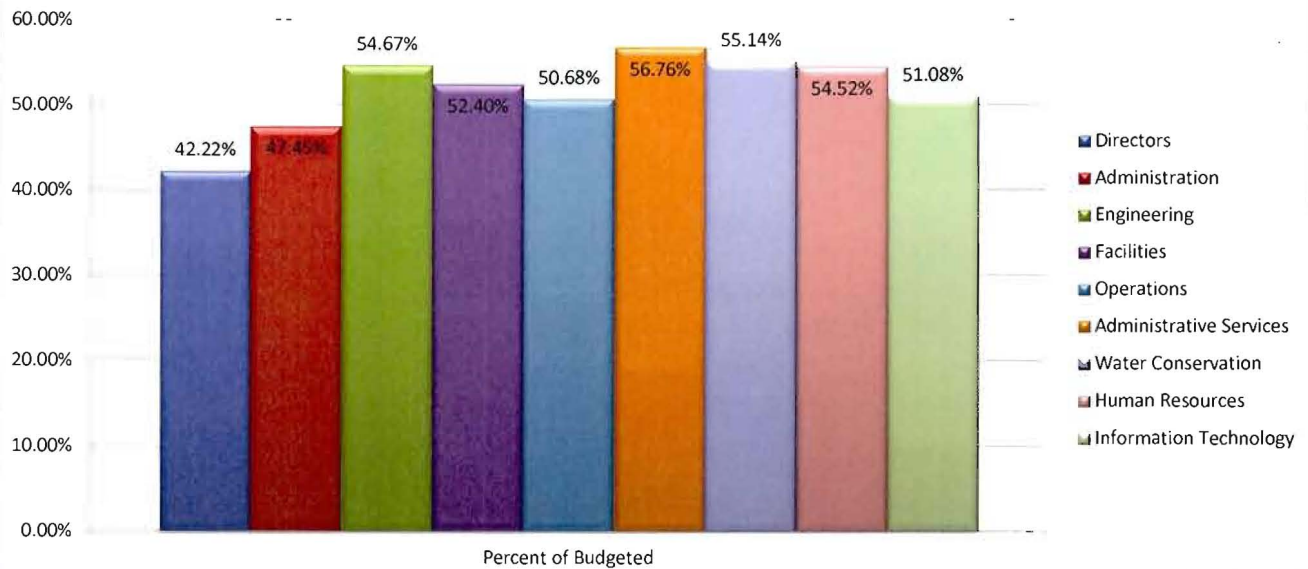
	Thru June	July	Year-to-Date	Adjustments	Adjusted Budget	% of Budget
Operating Revenue:						
Wholesale Water	\$ -	\$ -	\$ -		\$ 175,000	0.00%
Water Sales	2,875,693	1,050,397	3,926,090		8,145,000	48.20%
Meter Fees	5,167,096	866,817	6,033,913		10,400,000	58.02%
Water Quality Fees	655,780	194,925	850,706		1,550,000	54.88%
Elevation Fees	218,665	69,362	288,027		525,000	54.86%
Other	696,417	109,731	806,148		1,250,000	64.49%
Total Water Sales	\$ 9,613,651	\$ 2,291,232	\$ 11,904,884	\$ -	\$ 22,045,000	54.00%
Cash Operating Expenses:						
Directors	\$ 56,524	\$ 8,502	\$ 65,026		\$ 154,000	42.22%
Administration	1,471,582	211,492	1,683,074		3,547,000	47.45%
Engineering	553,195	85,898	639,092		1,169,000	54.67%
Facilities	1,594,107	235,014	1,829,121		3,490,500	52.40%
Operations	2,122,176	469,572	2,591,748		5,113,750	50.68%
Administrative Services	1,354,222	228,559	1,582,781		2,788,750	56.76%
Water Conservation	103,425	19,817	123,242		223,500	55.14%
Human Resources	120,499	25,542	146,040		267,850	54.52%
Information Technology*	309,077	66,570	375,647	(1,300)	735,450	51.08%
Water Purchases	1,626,063	55,877	1,681,940		2,800,000	60.07%
Water Recovery	(107,691)	-	(107,691)		(200,000)	53.85%
Capitalized Expenditures*	416,624	29,366	445,990	1,300	413,800	107.78%
GAC Filter Media Replacement	436,606	213,723	650,328		1,550,000	41.96%
Total Cash Operating Expenses	\$ 10,056,407	\$ 1,649,932	\$ 11,706,339	\$ -	\$ 22,053,600	53.08%
Non-Cash Operating Expenses:						
Depreciation	\$ 3,511,397	\$ 565,587	\$ 4,076,984		\$ 7,800,000	52.27%
OPEB Accrual Expense	1,046,958	147,678	1,194,635		2,000,000	59.73%
Bad Debts	3,712	(38)	3,675		100,000	3.67%
Service Costs Construction	38,525	7,166	45,691		125,000	36.55%
Capitalized Construction	(371,064)	(82,976)	(454,040)		(1,000,000)	45.40%
Total Non-Cash Operating Expenses	\$ 4,229,527	\$ 637,418	\$ 4,866,945	\$ -	\$ 9,025,000	53.93%
Net Operating Profit/(Loss)	\$ (4,672,283)	\$ 3,883	\$ (4,668,400)	\$ -	\$ (9,033,600)	51.68%
Non-Operating Revenues:						
Assessments (Debt Service)	\$ 2,616,124	\$ 416,668	\$ 3,032,792		\$ 4,000,000	75.82%
Assessments (1%)			-		1,500,000	0.00%
DWR Fixed Charge Recovery	435,918	-	435,918		-	
Interest	14,725	4,864	19,590		60,000	32.65%
Capital Improvement Fees	1,233,339	-	1,233,339		1,286,848	95.84%
State Grants	-	-	-		250,000	0.00%
Other	98,448	16,981	115,429		100,000	115.43%
Total Non-Operating Revenues	\$ 4,398,555	\$ 438,513	\$ 4,837,067	\$ -	\$ 7,196,848	67.21%
Non-Operating Expenses:						
Interest on Long-Term Debt	\$ 1,251,329	\$ 208,555	\$ 1,459,884		\$ 2,490,000	58.63%
Amortization of SWP	773,670	128,945	902,615		1,680,000	53.73%
Capital Lease	-	-	-		212,000	0.00%
Water Conservation Programs	27,629	5,114	32,743		150,000	21.83%
Total Non-Operating Expenses	\$ 2,052,628	\$ 342,614	\$ 2,395,242	\$ -	\$ 4,532,000	52.85%
Net Earnings	\$ (2,326,356)	\$ 99,782	\$ (2,226,574)	\$ -	\$ (6,368,752)	34.96%

* Budget adjustments by General Manager per Appendix A

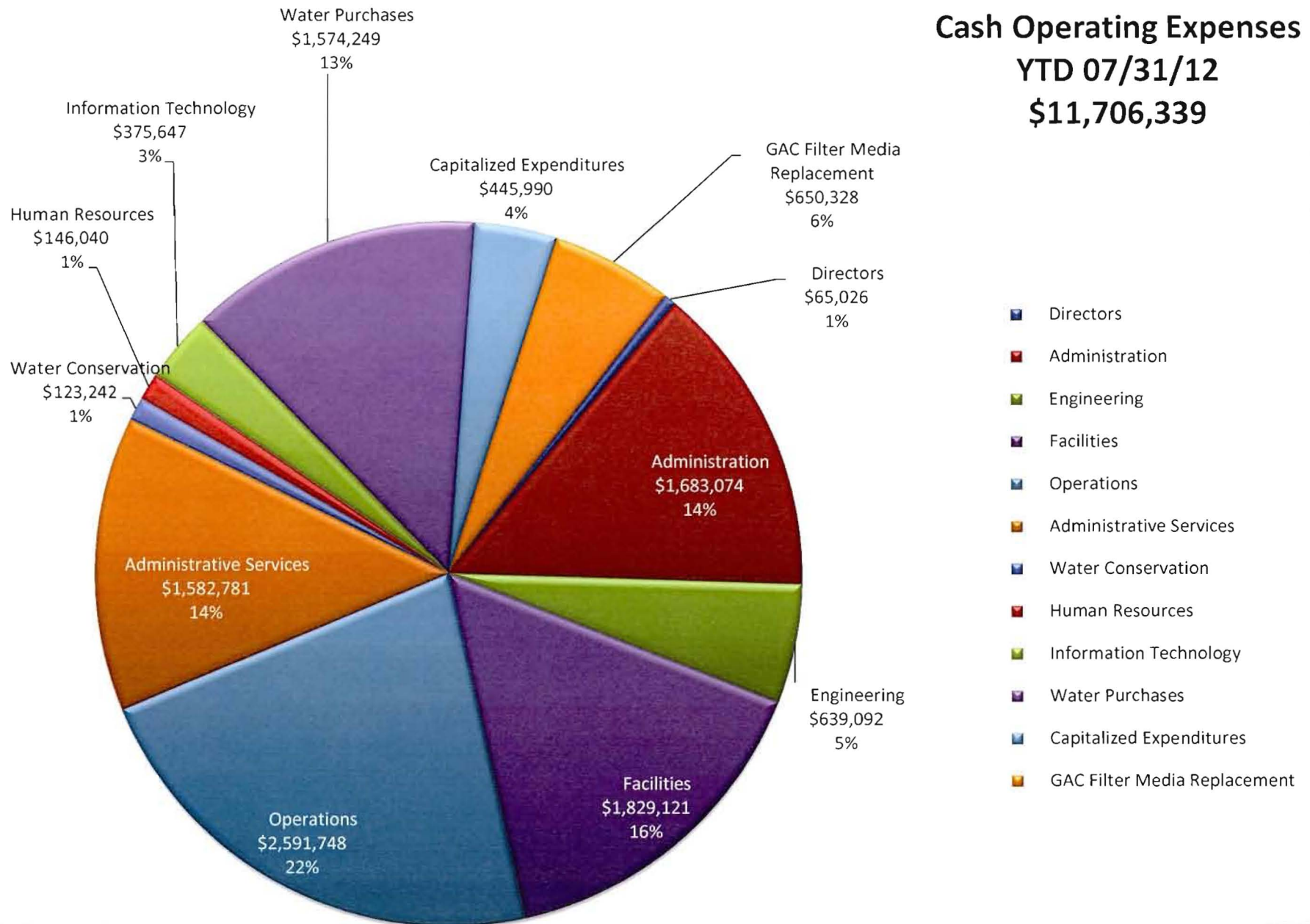
P & L BUDGET vs. ACTUAL



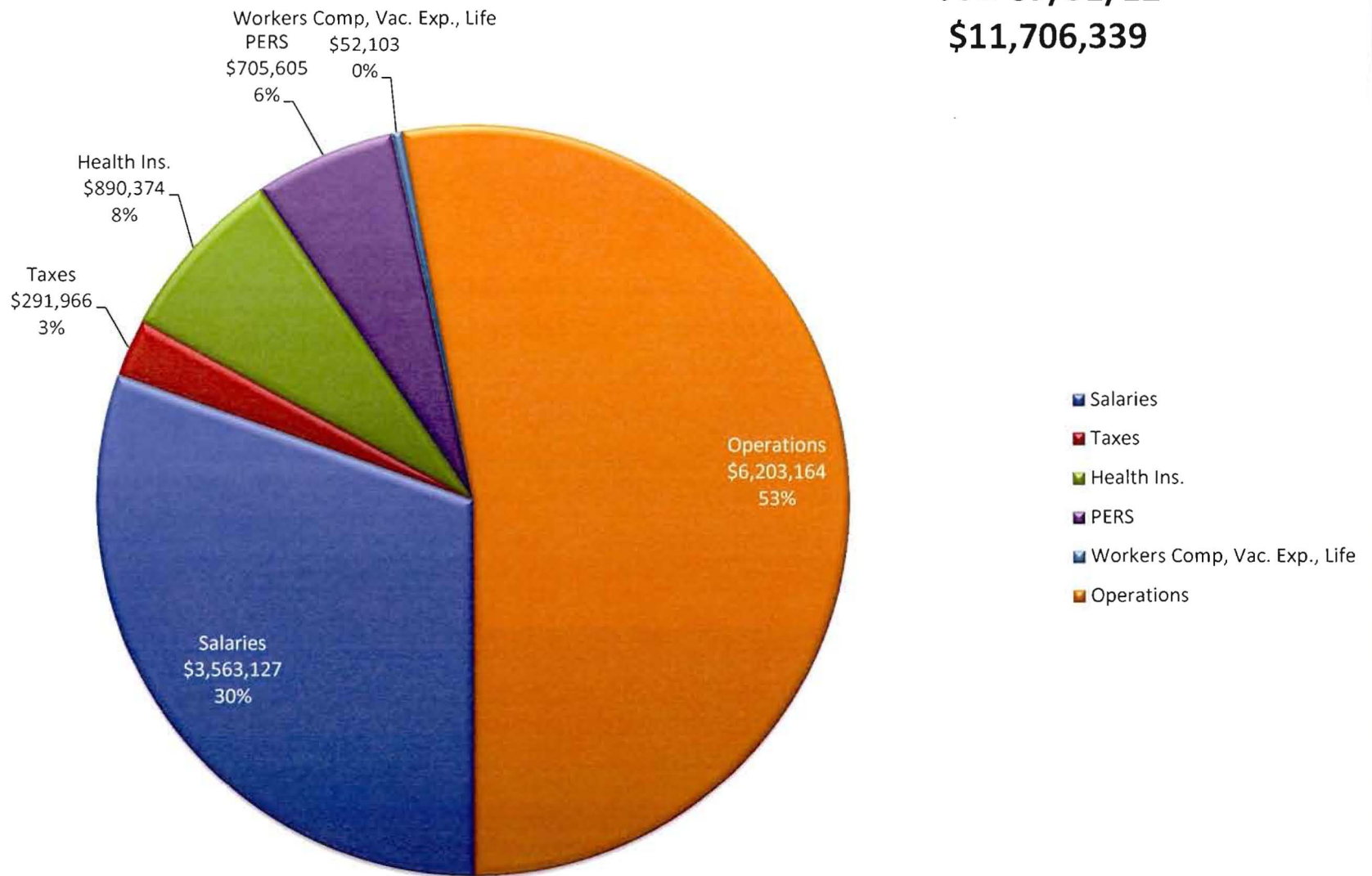
DEPARTMENTAL - BUDGET vs. ACTUAL



Cash Operating Expenses YTD 07/31/12 \$11,706,339



Personnel to Operations Exp
YTD 07/31/12
\$11,706,339

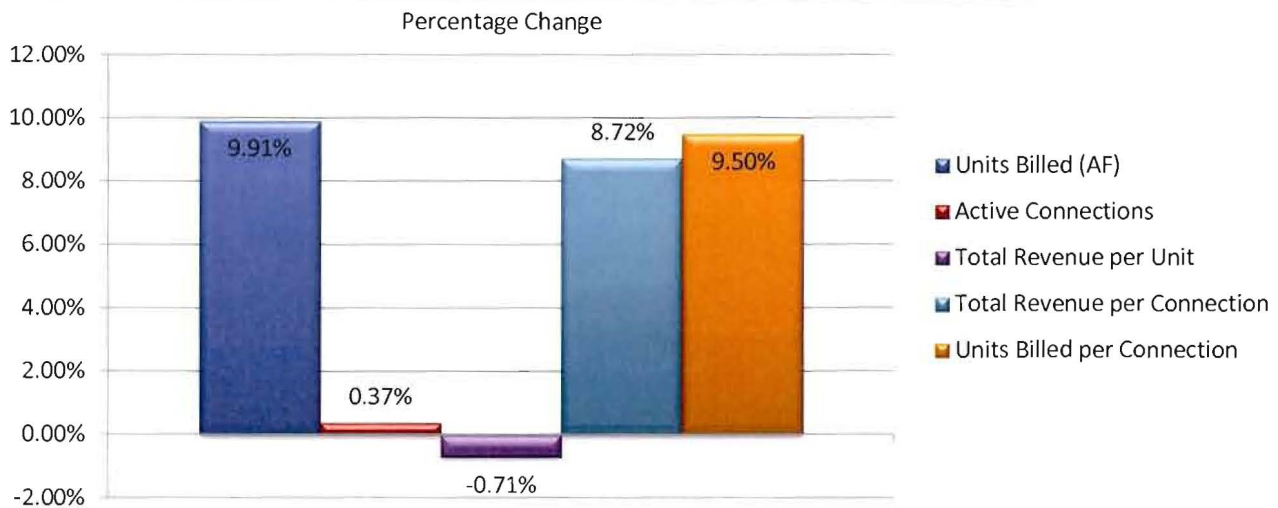
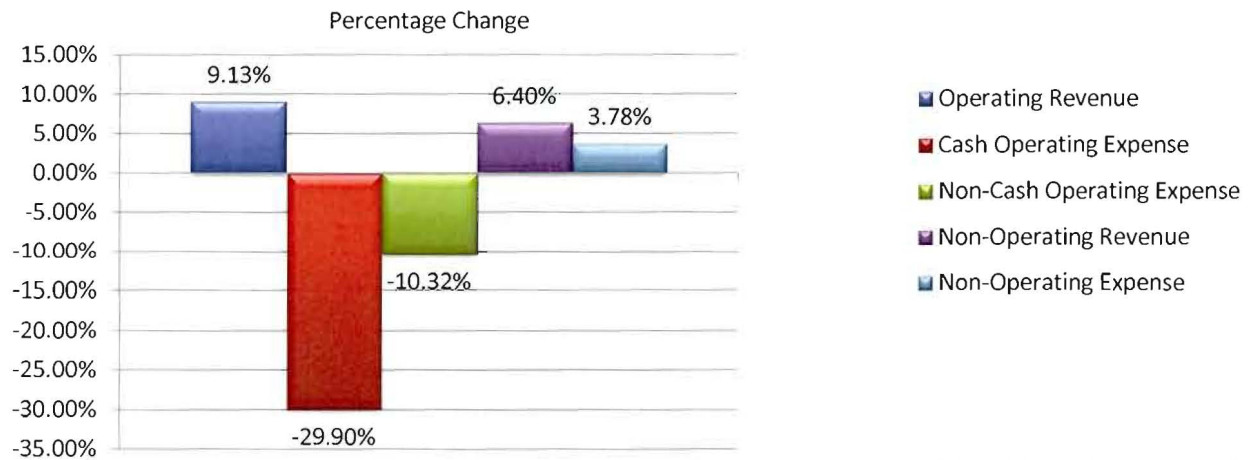


Palmdale Water District
Profit and Loss Statement
Year-To-Year Comparison - July

	2011 July	2012 July	Change	% Change	Consumption Comparison		
					Units Billed	2011 886,975	2012 974,841
Operating Revenue:							
Wholesale Water	\$ -	\$ -	\$ -		Active	26,257	26,355
Water Sales	933,452	1,050,397	116,945	12.53%	Vacant	1,385	1,287
Meter Fees	859,506	866,817	7,311	0.85%			
Water Quality Fees	177,397	194,925	17,528	9.88%			
Elevation Fees	61,821	69,362	7,541	12.20%	Rev/unit	\$ 2.37	\$ 2.35
Other	67,420	109,731	42,311	62.76%	Rev/con	\$ 79.96	\$ 86.94
Total Water Sales	\$ 2,099,596	\$ 2,291,232	\$ 191,637	9.13%	Unit/con	33.78	36.99
Cash Operating Expenses:							
Directors	\$ 12,441	\$ 8,502	\$ (3,939)	-31.66%			
Administration	743,011	211,492	(531,520)	-71.54%			
Engineering	106,066	85,898	(20,169)	-19.02%			
Facilities	260,255	235,014	(25,241)	-9.70%			
Operations	425,980	469,572	43,592	10.23%			
Administrative Services	225,154	228,559	3,405	1.51%			
Water Conservation	16,123	19,817	3,694	22.91%			
Human Resources	15,528	25,542	10,014	64.49%			
Information Technology	28,009	66,570	38,561	137.67%			
Water Purchases	99,357	55,877	(43,480)	-43.76%			
Water Recovery	(12,699)	-	12,699	-100.00%			
Capitalized Expenditures	330	29,366	29,036	8786.21%			
GAC Filter Media Replacement	433,972	213,723	(220,250)	-50.75%			
Total Cash Operating Expenses	\$ 2,353,529	\$ 1,649,932	\$ (703,598)	-29.90%			
Non-Cash Operating Expenses:							
Depreciation	\$ 561,735	\$ 565,587	\$ 3,852	0.69%			
OPEB Accrual Expense	201,308	147,678	(53,630)	-26.64%			
Bad Debts	-	(38)	(38)				
Service Costs Construction	2,154	7,166	5,012	232.70%			
Capitalized Construction	(54,430)	(82,976)	(28,546)	52.45%			
Total Non-Cash Operating Expenses	\$ 710,768	\$ 637,418	\$ (73,350)	-10.32%			
Net Operating Profit/(Loss)	\$ (964,701)	\$ 3,883	\$ 968,584	-100.40%			
Non-Operating Revenues:							
Assessments	\$ 333,333	\$ 416,668	\$ 83,334	25.00%			
DWR Fixed Charge Recovery	591,517	-	-				
Interest	9,761	4,864	(4,897)				
Capital Improvement Fees	27,960	-	(27,960)				
State Grants	-	-	-				
Other	5,535	16,981	11,446	206.81%			
Total Non-Operating Revenues	\$ 968,106	\$ 438,513	\$ 61,924	6.40%			
Non-Operating Expenses:							
Interest on Long-Term Debt	\$ 212,801	\$ 208,555	\$ (4,246)	-2.00%			
Amortization of SWP	117,346	128,945	11,599	9.88%			
Capital Lease	-	-	-				
Water Conservation Programs	-	5,114	5,114				
Total Non-Operating Expenses	\$ 330,147	\$ 342,614	\$ 12,467	3.78%			
Net Earnings	\$ (326,742)	\$ 99,782	\$ 1,018,041	-311.57%			

YEAR-TO-YEAR COMPARISON

July '11 -To- July '12



	2011	2012	Change	
Units Billed (AF)	2,036	2,238	202	9.91%
Active Connections	26,257	26,355	98	0.37%
Non-Active	1,385	1,287	-98	-7.08%
Total Revenue per Unit	\$2.37	\$2.35	-\$0.02	-0.71%
Total Revenue per Connection	\$79.96	\$86.94	\$6.97	8.72%
Units Billed per Connection	33.78	36.99	3	9.50%

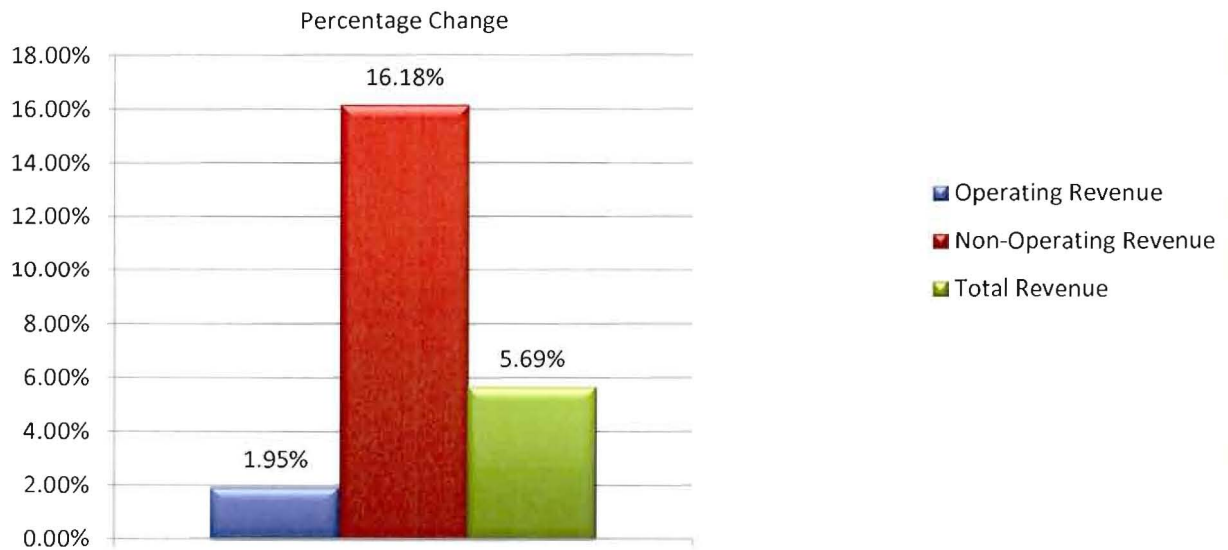
Palmdale Water District
Revenue Analysis
For the Seven Months Ending 7/31/2012

	2012					2011 to 2012 Comparison			
	Thru June	July	Year-to-Date	Adjusted Budget	% of Budget	Thru June	July	Year-to-Date	% Change
Operating Revenue:									
Wholesale Water	\$ -	\$ -	\$ -	\$ 175,000		\$ -	-	-	0.00%
Water Sales	2,875,693	1,050,397	3,926,090	8,145,000	48.20%	144,786	116,945	261,731	7.14%
Meter Fees	5,167,096	866,817	6,033,913	10,400,000	58.02%	47,784	7,311	55,095	0.92%
Water Quality Fees	655,780	194,925	850,706	1,550,000	54.88%	69,737	17,528	87,266	11.43%
Elevation Fees	218,665	69,362	288,027	525,000	54.86%	30,747	7,541	38,287	15.33%
Other	696,417	109,731	806,148	1,250,000	64.49%	(257,285)	42,311	(214,974)	-21.05%
Total Water Sales	\$ 9,613,651	\$ 2,291,232	\$ 11,904,884	\$ 22,045,000	54.00%	\$ 35,769	\$ 191,637	\$ 227,406	1.95%
Non-Operating Revenues:									
Assessments	\$ 2,616,124	\$ 416,668	\$ 3,032,792	\$ 5,500,000	55.14%	\$ 116,118	\$ 83,334	\$ 199,453	7.04%
DWR Fixed Charge Recovery	435,918	-	435,918	-		435,918	(591,517)	(155,599)	-26.31%
Interest	14,725	4,864	19,590	60,000	32.65%	(29,064)	(4,897)	(33,961)	-63.42%
Capital Improvement Fees	1,233,339	-	1,233,339	1,286,848	95.84%	729,067	(27,960)	701,107	131.73%
State Grants	-	-	-	250,000	0.00%	(76,200)	-	(76,200)	
Other	98,448	16,981	115,429	100,000	115.43%	27,483	11,446	38,929	50.89%
Total Non-Operating Revenues	\$ 4,398,555	\$ 438,513	\$ 4,837,067	\$ 7,196,848	67.21%	\$ 1,203,322	\$ (529,593)	\$ 673,728	16.18%
Total Revenue	\$ 14,012,206	\$ 2,729,745	\$ 16,741,951	\$ 29,241,848	57.25%	\$ 1,239,091	\$ (337,957)	\$ 901,134	5.69%

	2011				
	Thru June	July	Year-to-Date	Adjusted Budget	% of Budget
Operating Revenue:					
Water Sales	\$ 2,730,907	\$ 933,452	\$ 3,664,359	\$ 9,400,000	38.98%
Meter Fees	5,119,312	859,506	5,978,817	10,650,000	56.14%
Water Quality Fees	586,043	177,397	763,440	1,600,000	47.72%
Elevation Fees	187,919	61,821	249,740	560,000	
Other	953,702	67,420	1,021,122	1,175,000	86.90%
Total Water Sales	\$ 9,577,882	\$ 2,099,596	\$ 11,677,478	\$ 23,385,000	49.94%
Non-Operating Revenues:					
Assessments	\$ 2,500,006	\$ 333,333	\$ 2,833,339	\$ 5,000,000	56.67%
DWR Fixed Charge Recovery	-	591,517	591,517	-	
Interest	43,790	9,761	53,551	120,000	44.63%
Capital Improvement Fees	504,272	27,960	532,232	250,000	212.89%
State Grants	76,200	-	76,200	500,000	15.24%
Other	70,965	5,535	76,500	175,000	43.71%
Total Non-Operating Revenues	\$ 3,195,233	\$ 968,106	\$ 4,163,339	\$ 6,045,000	68.87%
Total Revenue	\$ 12,773,115	\$ 3,067,702	\$ 15,840,817	\$ 29,430,000	53.83%

REVENUE COMPARISON YEAR-TO-DATE

July '11-To-July '12



Palmdale Water District
Operating Expense Analysis
For the Seven Months Ending 7/31/2012

2011 to 2012 Comparison

	2012								
	Thru June	July	Year-to-Date	Adjusted Budget	% of Budget	Thru June	July	Year-to-Date	% Change
Cash Operating Expenses:									
Directors	\$ 56,524	\$ 8,502	\$ 65,026	\$ 154,000	42.22%	\$ (13,161)	\$ (3,939)	\$ (17,100)	-20.82%
Administration	1,471,582	211,492	1,683,074	3,547,000	47.45%	(322,767)	(531,520)	(854,287)	-33.67%
Engineering	553,195	85,898	639,092	1,169,000	54.67%	(325)	(20,169)	(20,494)	-3.11%
Facilities	1,594,107	235,014	1,829,121	3,490,500	52.40%	19,263	(25,241)	(5,978)	-0.33%
Operations	2,122,176	469,572	2,591,748	5,113,750	50.68%	28,187	43,592	71,779	2.85%
Administrative Services	1,354,222	228,559	1,582,781	2,788,750	56.76%	41,825	3,405	45,230	2.94%
Water Conservation	103,425	19,817	123,242	223,500	55.14%	7,720	3,694	11,413	10.21%
Human Resources	120,499	25,542	146,040	267,850	54.52%	14,279	10,014	24,294	19.95%
Information Technology	309,077	66,570	375,647	736,750	50.99%	309,077	38,561	112,098	42.53%
Water Purchases	1,626,063	55,877	1,681,940	2,800,000	60.07%	569,369	(43,480)	525,889	45.49%
Water Recovery	(107,691)	-	(107,691)	(200,000)	53.85%	(43,266)	12,699	(30,567)	39.63%
Capitalized Expenditures	416,624	29,366	445,990	412,500	108.12%	252,673	29,036	281,708	171.48%
GAC Filter Media Replacement	436,606	213,723	650,328	1,550,000	41.96%	436,606	(220,250)	216,356	49.85%
Total Cash Operating Expenses	\$ 10,056,407	\$ 1,649,932	\$ 11,706,339	\$ 22,053,600	53.08%	\$ 1,299,480	\$ (703,598)	\$ 360,342	3.08%
Non-Cash Operating Expenses:									
Depreciation	\$ 3,511,397	\$ 565,587	\$ 4,076,984	\$ 7,800,000	52.27%	\$ 113,322	\$ 3,852	\$ 117,174	2.96%
OPEB Accrual Expense	1,046,958	147,678	1,194,635	2,000,000	59.73%	309,203	(53,630)	255,573	27.22%
Bad Debts	3,712	(38)	3,675	100,000	3.67%	(45,771)	(38)	(45,808)	-92.57%
Service Costs Construction	38,525	7,166	45,691	125,000	36.55%	12,848	5,012	17,861	64.18%
Capitalized Construction	(371,064)	(82,976)	(454,040)	(1,000,000)	45.40%	234,400	(28,546)	205,854	-31.19%
Total Non-Cash Operating Expenses	\$ 4,229,527	\$ 637,418	\$ 4,866,945	\$ 9,025,000	53.93%	\$ 624,003	\$ (73,350)	\$ 550,653	11.31%
Non-Operating Expenses:									
Interest on Long-Term Debt	\$ 1,251,329	\$ 208,555	\$ 1,459,884	\$ 2,490,000	58.63%	\$ (25,478)	\$ (4,246)	\$ (29,724)	-2.00%
Amortization of SWP	773,670	128,945	902,615	1,680,000	53.73%	69,594	11,599	81,193	9.88%
Capital Lease	-	-	-	212,000	0.00%	(535)	-	(500)	-100.00%
Water Conservation Programs	27,629	5,114	32,743	150,000	21.83%	27,129	5,114	32,243	1.39%
Total Non-Operating Expenses	\$ 2,052,628	\$ 342,614	\$ 2,395,242	\$ 4,532,000	52.85%	\$ 70,710	\$ 12,467	\$ 83,212	3.60%
Total Expenses	\$ 16,338,562	\$ 2,629,963	\$ 18,968,526	\$ 35,610,600	53.27%	\$ 1,994,193	\$ (764,480)	\$ 994,206	5.53%

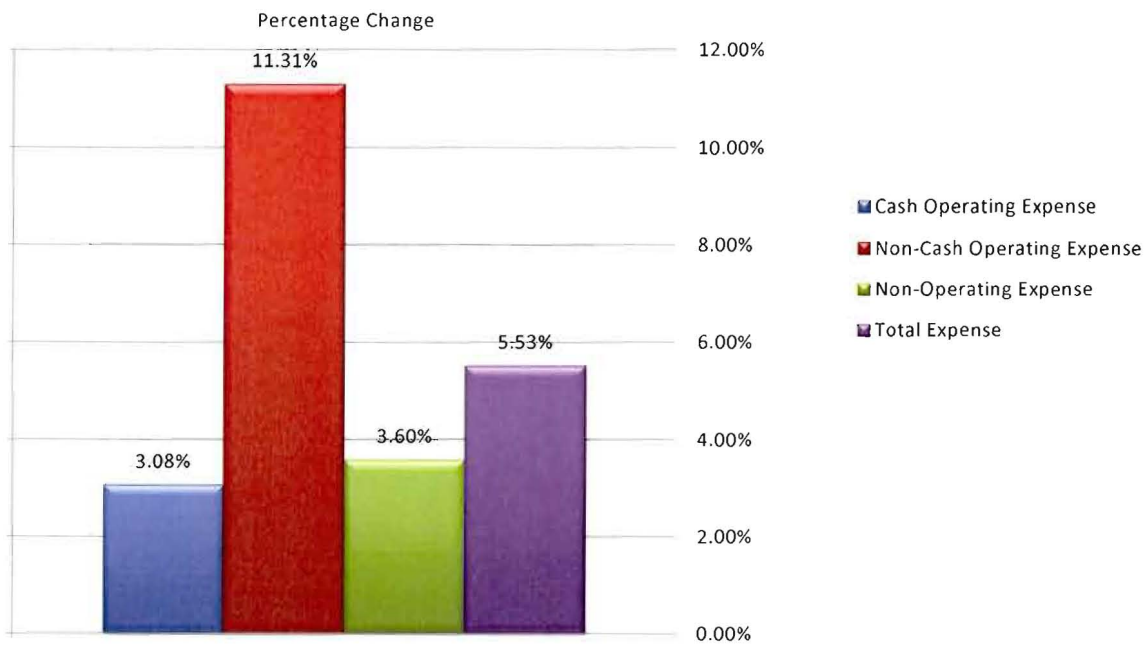
Palmdale Water District
Operating Expense Analysis
For the Seven Months Ending 7/31/2012

2011 to 2012 Comparison

	2011				
	Thru June	July	Year-to-Date	Adjusted Budget	% of Budget
Cash Operating Expenses:					
Directors	\$ 69,685	\$ 12,441	\$ 82,126	\$ 146,200	56.17%
Administration	1,794,349	743,011	2,537,360	3,176,000	79.89%
Engineering	553,520	106,066	659,586	1,127,000	58.53%
Facilities	1,574,843	260,255	1,835,099	3,317,000	55.32%
Operations	2,093,988	425,980	2,519,969	5,071,050	49.69%
Administrative Services	1,312,397	225,154	1,537,551	2,762,200	55.66%
Water Conservation	95,706	16,123	111,829	212,500	52.63%
Human Resources	106,219	15,528	121,747	273,000	44.60%
Information Technology	235,541	28,009	263,550	712,500	36.99%
Water Purchases	1,056,694	99,357	1,156,051	3,000,000	38.54%
Water Recovery	(64,425)	(12,699)	(77,124)	(200,000)	38.56%
Capitalized Expenditures	163,951	330	164,282	557,300	29.48%
GAC Filter Media Replacement	-	433,972	433,972	1,600,000	27.12%
Total Cash Operating Expenses	\$ 8,992,468	\$ 2,353,529	\$ 11,345,997	\$ 21,754,750	52.15%
Non-Cash Operating Expenses:					
Depreciation	\$ 3,398,075	\$ 561,735	\$ 3,959,810	\$ 6,850,000	57.81%
OPEB Accrual Expense	737,754	201,308	939,063	550,000	170.74%
Bad Debts	49,483	-	49,483	100,000	49.48%
Service Costs Construction	25,676	2,154	27,830	125,000	22.26%
Capitalized Construction	(605,464)	(54,430)	(659,894)	(1,000,000)	65.99%
Total Non-Cash Operating Expenses	\$ 3,605,525	\$ 710,768	\$ 4,316,292	\$ 6,625,000	65.15%
Non-Operating Expenses:					
Interest on Long-Term Debt	\$ 1,276,807	\$ 212,801	\$ 1,489,608	\$ 2,541,000	58.62%
Amortization of SWP	704,076	117,346	821,422	1,579,000	52.02%
Capital Lease	535	-	535	-	-
Water Conservation Programs	500	-	500	-	-
Total Non-Operating Expenses	\$ 1,981,918	\$ 330,147	\$ 2,312,065	\$ 4,120,000	56.12%
Total Expenses	\$ 14,579,910	\$ 3,394,444	\$ 17,974,354	\$ 32,499,750	55.31%

EXPENSE COMPARISON YEAR-TO-DATE

July '11-To-July '12



Palmdale Water District
2012 Directors Budget
For the Seven Months Ending Tuesday, July 31, 2012

	YTD ACTUAL 2012	ORIGINAL BUDGET 2012	ADJUSTMENTS 2012	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-01-4000-000 Directors Pay	\$ 22,050	\$ 45,000	\$ -	\$ 22,950	49.00%
Employee Benefits					
1-01-4005-000 Payroll Taxes	1,744	5,500		3,756	31.71%
1-01-4010-000 Health Insurance	40,557	93,500		52,943	43.38%
Subtotal (Benefits)	42,302	99,000	-	52,943	42.73%
Total Personnel Expenses	\$ 64,352	\$ 144,000	\$ -	\$ 75,893	44.69%
OPERATING EXPENSES:					
1-01-4050-000 Directors Travel, Seminars & Meetings	675	10,000		9,325	6.75%
Subtotal Operating Expenses	675	10,000	-	9,325	6.75%
Total O & M Expenses	\$ 65,026	\$ 154,000	\$ -	\$ 85,218	42.22%

Palmdale Water District
2012 Administration Budget
For the Seven Months Ending Tuesday, July 31, 2012

	YTD ACTUAL 2012	ORIGINAL BUDGET 2012	ADJUSTMENTS 2012	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-02-4000-000 Salaries	\$ 273,181	\$ 479,250		\$ 206,069	57.00%
1-02-4000-100 Overtime	4,912	6,000		1,088	81.86%
1-02-4000-200 On-Call	29,460	64,000		34,540	46.03%
Subtotal (Salaries)	\$ 307,552	\$ 549,250		\$ 241,698	55.99%
Employee Benefits					
1-02-4005-000 Payroll Taxes	21,966	42,000		20,034	52.30%
1-02-4010-000 Health Insurance	51,864	76,750		24,886	67.58%
1-02-4015-000 PERS	54,311	90,500		36,189	60.01%
1-02-4020-000 Worker's Compensation	69,674	200,000		130,326	34.84%
1-02-4025-000 Vacation Benefit Expense	(23,887)	35,000		58,887	-68.25%
1-02-4030-000 Life Insurance	6,316	7,500		1,184	84.21%
Subtotal (Benefits)	\$ 180,244	\$ 451,750	\$ -	\$ 271,506	39.90%
Total Personnel Expenses	\$ 487,796	\$ 1,001,000	\$ -	\$ 513,204	48.73%
OPERATING EXPENSES:					
1-02-4050-000 Staff Travel	\$ 4,904	\$ 8,000		\$ 3,096	61.30%
1-02-4050-100 General Manager Travel	3,735	5,000		1,265	74.70%
1-02-4060-000 Staff Conferences & Seminars	754	3,000		2,246	25.13%
1-02-4060-100 General Manager Conferences & Seminars	1,549	4,500		2,951	34.42%
1-02-4070-000 Employee Expense	22,312	40,000		17,688	55.78%
1-02-4080-000 Other Operating	11,028	20,000		8,972	55.14%
1-02-4110-000 Consultants	104,449	200,000		95,551	52.22%
1-02-4125-000 Insurance	179,957	325,000		145,043	55.37%
1-02-4130-000 Bank Charges	59,188	130,000		70,812	45.53%
1-02-4135-000 Groundwater Adjudication	153,780	925,000		771,220	16.62%
1-02-4140-000 Legal Services	330,776	475,000		144,224	69.64%
1-02-4150-000 Accounting Services	17,500	20,000		2,500	87.50%
1-02-4155-000 Contracted Services	15,719	50,000		34,281	31.44%
1-02-4165-000 Memberships/Subscriptions	59,041	110,000		50,959	53.67%
1-02-4170-000 Elections	78,451	70,000		(8,451)	112.07%
1-02-4175-000 Permits	7,364	20,000		12,636	36.82%
1-02-4180-000 Postage	15,553	30,000		14,447	51.84%
1-02-4190-100 Public Relations - Publications	15,675	30,000		14,325	52.25%
1-02-4190-900 Public Relations - Other	961	1,000		39	96.10%
1-02-4200-000 Advertising	2,721	3,000		279	90.71%
1-02-4205-000 Office Supplies	11,466	20,000		8,534	57.33%
1-02-4215-200 Natural Gas - Office Building	2,067	5,000		2,933	41.33%
1-02-4220-200 Electricity - Office Building	25,541	50,000		24,459	51.08%
1-02-4230-100 Maint & Repair - Office Building	70,789	-		(70,789)	
1-02-6300-100 Supplies - Janitorial	-	1,500		1,500	0.00%
Subtotal Operating Expenses	\$ 1,195,277	\$ 2,546,000	\$ -	\$ 1,350,723	46.95%
Total Departmental Expenses	\$ 1,683,074	\$ 3,547,000	\$ -	\$ 1,863,926	47.45%

Palmdale Water District
2012 Engineering Budget
For the Seven Months Ending Tuesday, July 31, 2012

	YTD ACTUAL 2012	ORIGINAL BUDGET 2012	ADJUSTMENTS 2012	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-03-4000-000 Salaries	\$ 405,352	\$ 767,000		\$ 361,648	52.85%
1-03-4000-100 Overtime	628	7,500		6,872	8.37%
Subtotal (Salaries)	\$ 405,980	\$ 774,500		\$ 368,520	52.42%
Employee Benefits					
1-03-4005-000 Payroll Taxes	33,568	59,250		25,682	56.65%
1-03-4010-000 Health Insurance	92,330	158,000		65,670	58.44%
1-03-4015-000 PERS	83,624	144,250		60,626	57.97%
Subtotal (Benefits)	\$ 209,522	\$ 361,500	\$ -	\$ 151,978	57.96%
Total Personnel Expenses	\$ 615,502	\$ 1,136,000	\$ -	\$ 520,498	54.18%
OPERATING EXPENSES:					
1-03-4050-000 Staff Travel	\$ 2,274	\$ 4,250		\$ 1,976	53.50%
1-03-4060-000 Staff Conferences & Seminars	1,005	2,750		1,745	36.55%
1-03-4155-000 Contracted Services	2,093	6,000		3,907	34.88%
1-03-4165-000 Memberships/Subscriptions	1,667	3,000		1,333	55.57%
1-03-4250-000 General Materials & Supplies	1,295	2,000		705	64.74%
1-03-8100-100 Computer Software - Maint. & Support	15,257	15,000		(257)	101.71%
Subtotal Operating Expenses	\$ 23,591	\$ 33,000	\$ -	\$ 9,409	71.49%
Total Departmental Expenses	\$ 639,092	\$ 1,169,000	\$ -	\$ 529,908	54.67%

Palmdale Water District
2012 Facilities Budget
For the Seven Months Ending Tuesday, July 31, 2012

	YTD ACTUAL 2012	ORIGINAL BUDGET 2012	ADJUSTMENTS 2012	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-04-4000-000 Salaries	\$ 773,083	\$ 1,424,000		\$ 650,917	54.29%
1-04-4000-100 Overtime	13,488	45,000		31,512	29.97%
Subtotal (Salaries)	\$ 786,571	\$ 1,469,000		\$ 682,429	53.54%
Employee Benefits					
1-04-4005-000 Payroll Taxes	65,940	112,500		46,560	58.61%
1-04-4010-000 Health Insurance	227,399	394,000		166,601	57.72%
1-04-4015-000 PERS	160,648	266,000		105,352	60.39%
Subtotal (Benefits)	\$ 453,988	\$ 772,500	\$ -	\$ 318,512	58.77%
Total Personnel Expenses	\$ 1,240,559	\$ 2,241,500	\$ -	\$ 969,429	55.35%
OPERATING EXPENSES:					
1-04-4050-000 Staff Travel	\$ -	\$ 3,000		3,000	0.00%
1-04-4060-000 Staff Conferences & Seminars	449	3,000		2,551	14.97%
1-04-4155-000 Contracted Services	5,751	33,000		27,249	17.43%
1-04-4215-200 Natural Gas - Buildings	1,711	4,500		2,789	38.03%
1-04-4220-200 Electricity - Buildings	13,926	17,500		3,574	79.58%
1-04-4225-000 Maint. & Repair - Vehicles	25,183	45,000		19,817	55.96%
1-04-4230-100 Maint. & Rep. Office Building	536	18,000		17,464	2.98%
1-04-4235-110 Maint. & Rep. Equipment	3,511	7,500		3,989	46.81%
1-04-4235-400 Maint. & Rep. Operations - Wells	55,509	150,000		94,491	37.01%
1-04-4235-405 Maint. & Rep. Operations - Boosters	25,798	50,000		24,202	51.60%
1-04-4235-410 Maint. & Rep. Operations - Shop Bldgs	6,068	10,000		3,932	60.68%
1-04-4235-415 Maint. & Rep. Operations - Facilities	6,818	15,000		8,182	45.45%
1-04-4235-420 Maint. & Rep. Operations - Water Lines	188,447	400,000		211,553	47.11%
1-04-4235-425 Maint. & Rep. Operations - Littlerock Dam	15,393	25,000		9,607	61.57%
1-04-4235-430 Maint. & Rep. Operations - Palmdale Dam	16,539	25,000		8,461	66.16%
1-04-4235-435 Maint. & Rep. Operations - Palmdale Canal	373	5,000		4,627	7.45%
1-04-4235-455 Maint. & Rep. Operations - Heavy Equipment	22,548	40,000		17,452	56.37%
1-04-4235-460 Maint. & Rep. Operations - Storage Reservoirs	-	7,500		7,500	0.00%
1-04-6000-000 Waste Disposal	14,045	20,000		5,955	70.23%
1-04-6100-100 Fuel and Lube - Vehicle	82,738	130,000		47,262	63.64%
1-04-6100-200 Fuel and Lube - Machinery	30,451	43,000		12,549	70.82%
1-04-6200-000 Uniforms	9,726	20,000		10,274	48.63%
1-04-6300-100 Supplies - Misc.	24,265	50,000		25,735	48.53%
1-04-6300-800 Supplies - Construction Materials	22,491	100,000		77,509	22.49%
1-04-6400-000 Tools	8,421	12,000		3,579	70.17%
1-04-7000-100 Leases -Equipment	7,865	15,000		7,135	52.43%
Subtotal Operating Expenses	\$ 588,562	\$ 1,249,000	\$ -	\$ 660,438	47.12%
Total Departmental Expenses	\$ 1,829,121	\$ 3,490,500	\$ -	\$ 1,629,868	52.40%

Palmdale Water District
2012 Operation Budget
For the Seven Months Ending Tuesday, July 31, 2012

	YTD ACTUAL 2012	ORIGINAL BUDGET 2012	ADJUSTMENTS 2012	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-05-4000-000 Salaries	\$ 888,167	\$ 1,619,250		\$ 731,083	54.85%
1-05-4000-100 Overtime	41,396	60,000		18,604	68.99%
Subtotal (Salaries)	\$ 929,563	\$ 1,679,250		\$ 749,687	55.36%
Employee Benefits					
1-05-4005-000 Payroll Taxes	76,646	128,500		51,854	59.65%
1-05-4010-000 Health Insurance	214,829	367,500		152,671	58.46%
1-05-4015-000 PERS	181,769	304,000		122,231	59.79%
Subtotal (Benefits)	\$ 473,244	\$ 800,000	\$ -	\$ 326,756	59.16%
Total Personnel Expenses	\$ 1,402,807	\$ 2,479,250	\$ -	\$ 1,057,839	56.58%
OPERATING EXPENSES:					
1-05-4050-000 Staff Travel	\$ 4,236	\$ 8,000		\$ 3,764	52.94%
1-05-4060-000 Staff Conferences & Seminars	3,746	9,500		5,754	39.43%
1-05-4120-100 Training - Lab Equipment	-	3,500		3,500	0.00%
1-05-4155-000 Contracted Services	40,971	59,000		18,029	69.44%
1-05-4175-000 Permits	12,630	51,000		38,370	24.77%
1-05-4215-100 Natural Gas - Wells & Boosters	39,229	150,000		110,771	26.15%
1-05-4215-200 Natural Gas - WTP	623	3,000		2,377	20.78%
1-05-4220-100 Electricity - Wells & Boosters	670,641	1,450,000		779,359	46.25%
1-05-4220-200 Electricity - WTP	47,940	185,000		137,060	25.91%
1-05-4230-110 Maint. & Rep. - Office Equipment	-	500		500	0.00%
1-05-4235-110 Maint. & Rep. Operations - Equipment	2,175	15,000		12,825	14.50%
1-05-4235-410 Maint. & Rep. Operations - Shop Bldgs	2,008	6,000		3,992	33.46%
1-05-4235-415 Maint. & Rep. Operations - Facilities	17,041	38,000		20,959	44.84%
1-05-4235-445 Maint. & Rep. Operations - Telemetry	94	2,250		2,156	4.17%
1-05-4235-450 Maint. & Rep. Operations - Hypo Generator	307	7,250		6,943	4.24%
1-05-4236-000 Palmdale Lake Management	12,513	15,000		2,487	83.42%
1-05-4250-000 General Material & Supplies	335				
1-05-4270-300 Telecommunication - Other	1,465	2,250		785	65.09%
1-05-4300-300 Testing - Edison	-	12,000		12,000	0.00%
1-05-6000-000 Waste Disposal	1,710	15,000		13,290	11.40%
1-05-6200-000 Uniforms	5,831	10,000		4,169	58.31%
1-05-6300-100 Supplies - Misc.	12,871	15,000		2,129	85.81%
1-05-6300-200 Supplies - Hypo Generator	1,631	6,750		5,119	24.16%
1-05-6300-300 Supplies - Electrical	-	3,500		3,500	0.00%
1-05-6300-400 Supplies - Telemetry	6,928	7,500		572	92.38%
1-05-6300-600 Supplies - Lab	18,701	35,000		16,299	53.43%
1-05-6300-700 Outside Lab Work	27,875	65,000		37,125	42.88%
1-05-6400-000 Tools	1,948	6,500		4,552	29.97%
1-05-6500-000 Chemicals	255,491	450,000		194,509	56.78%
1-05-7000-100 Leases -Equipment	-	3,000		3,000	0.00%
Subtotal Operating Expenses	\$ 1,188,940	\$ 2,634,500	\$ -	\$ 1,445,894	45.13%
Total Departmental Expenses	\$ 2,591,748	\$ 5,113,750	\$ -	\$ 2,503,734	50.68%

Palmdale Water District
2012 Administrative Services Budget
For the Seven Months Ending Tuesday, July 31, 2012

	YTD ACTUAL 2012	ORIGINAL BUDGET 2012	ADJUSTMENTS 2012	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-06-4000-000 Salaries	\$ 825,276	\$ 1,531,250		\$ 705,974	53.90%
1-06-4000-100 Overtime	7,988	25,000		17,012	31.95%
Subtotal (Salaries)	\$ 833,264	\$ 1,556,250		\$ 722,986	53.54%
Employee Benefits					
1-06-4005-000 Payroll Taxes	69,257	119,250		49,993	58.08%
1-06-4010-000 Health Insurance	219,151	381,000		161,849	57.52%
1-06-4015-000 PERS	170,724	286,500		115,776	59.59%
Subtotal (Benefits)	\$ 459,132	\$ 786,750	\$ -	\$ 327,618	58.36%
Total Personnel Expenses	\$ 1,292,396	\$ 2,343,000	\$ -	\$ 1,033,592	55.16%
OPERATING EXPENSES:					
1-06-4050-000 Staff Travel	\$ -	\$ 250		250	0.00%
1-06-4060-000 Staff Conferences & Seminars	928	1,000		72	92.84%
1-06-4155-300 Contracted Services	5,424	14,500		9,076	37.41%
1-06-4155-100 Contracted Services - Infosend	129,416	205,000		75,584	63.13%
1-06-4165-000 Memberships/Subscriptions	-	500		500	0.00%
1-06-4230-110 Maintenance & Repair - Office Equipment	117	1,000		883	11.66%
1-06-4235-440 Maint. & Rep. Operations - Large Meters	2,128	10,000		7,872	21.28%
1-06-4235-470 Maint. & Rep. Operations - Meter Exchanges	117,319	125,000		7,681	93.86%
1-06-4250-000 General Material & Supplies	2,145	4,000		1,855	53.62%
1-06-4260-000 Business Forms	3,502	10,000		6,498	35.02%
1-06-4270-100 Telecommunication - Office	10,645	30,000		19,355	35.48%
1-06-4270-200 Telecommunication - Cellular Stipend	9,205	17,000		7,795	54.15%
1-06-4270-300 Telecommunication - Cellular	840	3,000		2,160	28.01%
1-06-4300-200 Testing - Large Meter Testing	7,520	21,500		13,980	34.98%
1-06-7000-100 Leases - Equipment	1,194	3,000		1,806	39.81%
Subtotal Operating Expenses	\$ 290,385	\$ 445,750	\$ -	\$ 155,365	65.15%
Total Departmental Expenses	\$ 1,582,781	\$ 2,788,750	\$ -	\$ 1,188,957	56.76%

Palmdale Water District
2012 Water Conservation Budget
For the Seven Months Ending Tuesday, July 31, 2012

	YTD ACTUAL 2012	ORIGINAL BUDGET 2012	ADJUSTMENTS 2012	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-07-4000-000 Salaries	\$ 80,450	\$ 151,750		\$ 71,300	53.01%
1-07-4000-100 Overtime	1,000	1,250		250	80.03%
Subtotal (Salaries)	\$ 81,450	\$ 153,000		\$ 71,550	53.24%
Employee Benefits					
1-07-4005-000 Payroll Taxes	6,671	12,000		5,329	55.59%
1-07-4010-000 Health Insurance	10,840	15,500		4,660	69.93%
1-07-4015-000 PERS	17,280	28,500		11,220	60.63%
Subtotal (Benefits)	\$ 34,790	\$ 56,000	\$ -	\$ 21,210	62.12%
Total Personnel Expenses	\$ 116,240	\$ 209,000	\$ -	\$ 92,510	55.62%
OPERATING EXPENSES:					
1-07-4050-000 Staff Travel	\$ 28	\$ 1,000		\$ 972	2.78%
1-07-4060-000 Staff Conferences & Seminars	299	500		201	59.80%
1-07-4190-300 Public Relations - Landscape Workshop/Training	280	2,500		2,220	11.18%
1-07-4190-400 Public Relations - Contests	-	500		500	0.00%
1-07-4190-500 Public Relations - Education Programs	3,995	5,000		1,005	79.89%
1-07-4190-700 Public Relations -General Media	875	3,000		2,125	29.17%
1-07-6300-100 Supplies - Misc.	1,526	2,000		474	76.31%
Subtotal Operating Expenses	\$ 7,002	\$ 14,500	\$ -	\$ 7,498	48.29%
Total Departmental Expenses	\$ 123,242	\$ 223,500	\$ -	\$ 100,008	55.14%

Palmdale Water District
2012 Human Resources Budget
For the Seven Months Ending Tuesday, July 31, 2012

	YTD ACTUAL 2012	ORIGINAL BUDGET 2012	ADJUSTMENTS 2012	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-08-4000-000 Salaries	\$ 78,223	\$ 127,500		\$ 49,277	61.35%
Employee Benefits					
1-08-4005-000 Payroll Taxes	6,382	10,000		3,618	63.82%
1-08-4010-000 Health Insurance	10,077	17,250		7,173	58.42%
1-08-4015-000 PERS	14,300	24,000		9,700	59.58%
Subtotal (Benefits)	\$ 30,759	\$ 51,250	\$ -	\$ 20,491	60.02%
Total Personnel Expenses	\$ 108,982	\$ 178,750	\$ -	\$ 69,768	60.97%
OPERATING EXPENSES:					
1-08-4050-000 Staff Travel	\$ 231	\$ 3,000		\$ 2,769	7.69%
1-08-4060-000 Staff Conferences & Seminars	250	2,000		1,750	12.50%
1-08-4095-000 Employee Recruitment	322	3,000		2,678	10.73%
1-08-4100-000 Employee Retention	1,705	1,500		(205)	113.67%
1-08-4105-000 Employee Relations	2,405	3,500		1,095	68.72%
1-08-4110-000 Consultants	-	1,000		1,000	0.00%
1-08-4120-100 Training-Safety Consultants	17,118	38,000		20,882	45.05%
1-08-4121-000 Safety Program	-	1,000		1,000	0.00%
1-08-4165-000 Membership/Subscriptions	1,946	1,600		(346)	121.62%
1-08-4165-100 HR/Safety Publications	198	1,000		802	19.84%
1-08-6300-500 Supplies - Safety	12,883	33,500		20,617	38.46%
Subtotal Operating Expenses	\$ 37,058	\$ 89,100	\$ -	\$ 52,042	41.59%
Total Departmental Expenses	\$ 146,040	\$ 267,850	\$ -	\$ 121,810	54.52%

Palmdale Water District
2012 Information Technology Budget
For the Seven Months Ending Tuesday, July 31, 2012

	YTD ACTUAL 2012	ORIGINAL BUDGET 2012	ADJUSTMENTS 2012	ADJUSTED BUDGET REMAINING	PERCENT USED
Personnel Budget:					
1-09-4000-000 Salaries	\$ 117,060	\$ 195,250		\$ 78,190	59.95%
1-09-4000-100 Overtime	1,414	3,000		1,586	47.13%
Subtotal (Salaries)	\$ 118,474	\$ 198,250		\$ 79,776	59.76%
Employee Benefits					
1-09-4005-000 Payroll Taxes	9,792	15,500		5,708	63.17%
1-09-4010-000 Health Insurance	23,327	40,000		16,673	58.32%
1-09-4015-000 PERS	22,948	37,000		14,052	62.02%
Subtotal (Benefits)	\$ 56,067	\$ 92,500	\$ -	\$ 36,433	60.61%
Total Personnel Expenses	\$ 174,541	\$ 290,750	\$ -	\$ 114,623	60.03%
OPERATING EXPENSES:					
1-09-4050-000 Staff Travel	\$ 89	\$ 3,000		2,911	2.97%
1-09-4060-000 Staff Conferences & Seminars	8,167	15,000		6,833	54.45%
1-09-4120-100 Cogsdale Reimplementation & Templates*	21,075	70,000	(20,000)	28,925	42.15%
1-09-4155-300 Contracted Services - Computer Vendors*	71,184	105,000	(1,300)	32,516	68.64%
1-09-4165-000 Memberships/Subscriptions	240	500		260	48.00%
1-09-8000-100 Computer Equipment - Computers	36,824	45,000		8,176	81.83%
1-09-8000-200 Computer Equipment - Laptops	-	10,000		10,000	0.00%
1-09-8000-300 Computer Equipment - Monitors	726	2,000		1,274	36.29%
1-09-8000-400 Computer Equipment - Printers	1,905	2,500		595	76.20%
1-09-8000-500 Computer Equipment - Toner Cartridges	3,983	3,000		(983)	132.76%
1-09-8000-600 Computer Equipment - Other*	35,052	35,000	5,500	5,448	86.55%
1-09-8100-100 Computer Software - Maint. and Support*	3,181	70,000	(5,500)	61,319	4.93%
1-09-8100-150 Computer Software - Cogsdale Maint and Support	-	70,000		70,000	0.00%
1-09-8100-200 Computer Software - Software and Upgrades*	18,681	15,000	20,000	16,319	53.38%
Subtotal Operating Expenses	\$ 201,107	\$ 446,000	\$ (1,300)	\$ 243,593	45.22%
Total Departmental Expenses	\$ 375,647	\$ 736,750	\$ (1,300)	\$ 358,217	51.08%


* Budget adjustments by General Manager per Appendix A

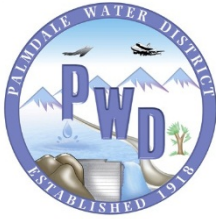
**Engineering Department Projected Payout Schedule
September - 2012**

AGENDA ITEM NO. 7.3

Project Title	2012 Budget	Budget No.	Payee	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Littlerock Dam Sediment Removal EIR/EIS Cost Recovery Payment	\$ 270,000	NCP02	Aspen USFS		\$ 11,719 \$ 119,416	\$ 3,257	\$ 3,966		\$ 23,343	\$ 12,399		\$ 14,998	\$ 14,000	\$ 14,000	\$ 14,000
Spec. No. 0903 - 9th/12th Street East	\$ 683,000	RCP08	VCI	\$ 182,825	\$ 137,230	\$ 187,320	\$ 104,529	\$ 86,084							
Acquisition of Tax Defaulted Property	\$ 18,000	NCC04	LA County									\$ 18,000			
Annual Tank Maint. (Year 5 of 5)	\$ 360,000	RCP05	Utility Services						\$ 355,147						
Well No. 11A Rehabilitation	\$ 200,000	RCP23	Layne				\$ 215,030					\$ 87,321			
Avenue S and Downing - Water Main Replacement	\$ 125,000	RCO18	TBD						\$ 36,347						
Spec. No. 0902 - Ave. Q-3, Division, Sumac	\$ 525,000	RCP07	TBD								\$ 203,768	\$ 60,941	\$ 250,000	\$ 225,000	\$ 150,000
3600' Hydro-Pneumatic Tank Replacement	\$ -	N/A	Superior Tank									\$ 20,000	\$ 50,000	\$ 20,000	
Well No. 3A Rehabilitation	\$ -	N/A	Layne Reed Electric							\$ 12,667		\$ 112,956 \$ 19,709			
Lighting Replacement	\$ -	N/A	ORION							\$ 68,163	\$ 68,163				
WTP Security System	\$ 50,000	NCP01	TBD									\$ 10,000	\$ 10,000		
Total Projected Payout:				\$ 182,825	\$ 268,365	\$ 190,577	\$ 323,525	\$ 86,084	\$ 414,837	\$ 93,229	\$ 271,931	\$ 343,925	\$ 324,000	\$ 259,000	\$ 164,000

Water Quality Fund	2012 Budget	Budget No.	Payee	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2012 Granular Activated Carbon Supply 2012 Change-Outs	\$1,550,000	N/A	Calgon					\$ 219,829		\$ 216,776	\$ 216,776	\$ 217,991	\$ 216,776	\$ 216,776	
Total Water Quality Projected Payout:				\$ -	\$ -	\$ -	\$ -	\$ 219,829	\$ -	\$ 216,776	\$ 216,776	\$ 217,991	\$ 216,776	\$ 216,776	\$ -

 = Approved for Payment



Resolution No. 12-13 Honoring and Congratulating The Retirees of 2012

WHEREAS, the Palmdale Water District was formed in 1918 under the provisions of Division 11 of the Water Code of the State of California and has been providing high quality water to the residents of Palmdale for 94 years;

WHEREAS, the Palmdale Water District has been fortunate to have dedicated staff committed to the mission of the District;

WHEREAS, several members of staff are now about to embark on new adventures in life away from Palmdale Water District;

WHEREAS, we, as members of the Palmdale Water District Board of Directors recognize the many years of valuable service and wish to extend our utmost appreciation for the work and dedication of these members of staff departing from the District in this year, 2012;

NOW, THEREFORE, the Board of the Directors of the Palmdale Water District does hereby honor and congratulate the service of these employees and wishes them well in all future endeavors, these employees being:

Robert J. Rodriguez, Construction Supervisor, 33 Years of Service

Daniel C. Henry, Field Service Supervisor, 31 Years of Service

Edward W. Boka, Treatment Plant Supervisor, 12 ½ Years of Service

Jeannie M. Burns, Human Resources Manager, 6 Years of Service

PASSED AND ADOPTED by the Board of Directors of the Palmdale Water District at a regular Board meeting held September 12, 2012.

*GORDON DEXTER, President,
Board of Directors*

*GLORIA DIZMANG, Vice President,
Board of Directors*

*ROBERT ALVARADO, Secretary,
Board of Directors*

*KATHY MAC LAREN, Treasurer,
Board of Directors*

*STEVE CORDOVA, Director,
Board of Directors*

Section IV — Employee Benefits

Existing Language:

A. Introduction

The District has developed a broad, comprehensive set of employee benefit programs to supplement your regular wages. The District is continually investigating opportunities to improve its benefits as budget limitations permit.

These employee benefit programs consist of two categories: insured and uninsured. Insured benefits are those that the District pays for through an outside source. Examples of these benefits are Medical, Dental, Vision, Life, PERS and Disability insurance.

Examples of uninsured benefits are vacation, sick and holiday pay. These are benefits that are paid for directly by the District and are available to you with conditions and specifications. Benefits are "hidden costs" of approximately 40+% of salaries that go to supplement employees' incomes!

B. Group Insurance Plans

The District provides group major medical, dental, vision, and life insurance at no cost to eligible employees and dependents. You will receive brochures and enrollment forms during the new employee orientation from the Human Resources Director.

Eligible employees are defined as regular full-time employees.

Eligible dependent is defined as the following:

- Spouse;
- Unmarried children to the 19th birthday including children placed in the home for adoption;
- Health Care Reform regulations allow eligible adult dependent children to enroll in the health plans during open enrollment for a January 1st effective date. Eligible dependents are defined by the plan (carrier) rules; the evidence of coverage defines an eligible dependent child as: a child is the subscriber's, spouse's, or domestic partner's natural child, stepchild, or a legally adopted child.

A dependent qualifies if he/she is under age 26. A qualified dependent can be married or unmarried, but his/her spouse, domestic partner or children (grandchildren) will not be qualified for dependent coverage. The qualified dependent is not required to be living at home, not required to be a dependent on the employee's tax return, not required to be a student, and is eligible even if they have access to another employer-provided health plan;

- Disabled unmarried children who were enrolled before age 25, subject to carrier approval;
- Children eligible for coverage as a result of a valid qualified medical child support order;
- Those designated according to the law; and
- For an eligible dependent to be eligible for coverages, a copy of a marriage license, birth certificate, or other identifying paperwork is required.

The following is a brief description of the plans available and is not meant to replace the actual wording of the policy, which makes the final determination of the benefits to be provided.

1. Medical Plan

- a. Persons Eligible: Regular full-time employees and their eligible dependents.
- b. Waiting Period: First day of the month following two months of continuous employment.
- c. Employee Contribution: None.
- d. Employer Contribution: Total cost for employee and eligible dependents and domestic partners.
- e. Providers: ACWA/HBA and Kaiser Permanente.
- f. Benefits Provided: See information booklet provided by provider for details.
- g. Where to File Claims: As provided by carrier on respective websites.

Proposed Language Addition:

1.5 Cash-in-Lieu of Medical Insurance Program

- a. Introduction. The Cash-in-Lieu of Medical Insurance Program allows District employees to receive cash compensation for a twelve (12) month period as set forth below in consideration for their declining of medical insurance provided by the District, as otherwise set forth in Section 1, above.
- b. Eligibility. Any District employee who is eligible to receive medical insurance coverage from the District is eligible to participate in the Cash-in-Lieu of Medical Insurance Program so long as the conditions set forth in this Section 1.5 are satisfied.
- c. Enrollment; Proof of Coverage. To be able to participate in the Cash-in-Lieu of Medical Insurance Program, an employee must be eligible to receive medical insurance coverage from the District, and must provide written proof of other group medical insurance coverage, excluding Medicaid, Medicare, insurance through COBRA, coverage under a parent's medical insurance policy, or coverage through a medical insurance plan purchased as an individual. To enroll in the Cash in-Lieu of Medical Insurance Program, an employee must:
 - 1. Obtain written proof of other current medical coverage, as described above. The required proof is an official document verifying the employee is insured under a group health insurance plan, such as a letter or official website document from an employee's spouse's employer stating the employee is currently covered under that spouse's medical insurance plan, which lists the employee as an eligible dependent. **A copy of a medical insurance I.D. card is not sufficient proof of such other coverage.**
 - 2. Submit that written proof to the Human Resources Department along with a properly completed and signed "Election of Cash-in-Lieu of Participation in Group Medical Insurance" form available from the Human Resources Department.
- d. Payment. Upon the Human Resources Department's approval of an employee's election form, cash payment to the employee in lieu of medical insurance will be scheduled for the next available paycheck date or deposited into an employee's deferred compensation account, at the employee's option. **There will be**

no retroactive payments. The cash-in-lieu benefit is paid once per month for twelve (12) months from the first payday on which the payment is to be made, on a scheduled payday. Such payments are taxable and subject to FICA, federal, state, and other required payroll deductions or withholdings. The amount deducted for such withholding depends on individual circumstances and the District is unable to provide individual calculations prior to the actual payment.

- e. Reinstatement of District-Provided Medical Insurance. If an employee who has elected to decline participation in District-provided medical coverage later wishes to enroll in the District's coverage, except for cases involving the death of or divorce from the individual providing the required coverage under another medical insurance plan, the employee may only enroll in the District's medical insurance plan in applicable open enrollment periods, subject to any plan waiting periods and the payment of compensation under this program shall cease as of the effective date of that reinstatement.
- f. Points to Consider Before Declining Medical Coverage. Employees should consider the following points before declining to participate in District-provided medical insurance:
 - 1. An employee will not be considered to have involuntarily lost his or her other group medical coverage if his or her spouse's group insurer increases the cost of coverage. **If an employee wishes to reinstate District-provided medical insurance coverage, he or she will not be allowed to enroll in the District's medical insurance coverage until the earlier of: (i) the next open enrollment period, or (ii) when a qualifying event under COBRA occurs.**
 - 2. When an employee waives his or her District-provided medical insurance coverage under the Cash-in-Lieu program, the employee will continue to have dental and vision insurance under Sections 3 and 4, below, unless the employee voluntarily elects not to participate in those plans. No additional cash compensation will be payable to an employee who declines to participate in District-provided dental and vision insurance.

ANTELOPE VALLEY BOARD OF TRADE

548 West Lancaster Boulevard, Suite 103
 Lancaster, CA 93534-2534
 info@avbot.org 661-942-9581
 Fax # 661-723-9279

Invoice

Date	Invoice #
8/23/2012	3511

Bill To

Palmdale Water District Dennis LaMoreaux 2029 East Avenue Q Palmdale, CA 93550

Terms	Due Date
60	10/22/2012

Description		Amount
AVBOT Business Membership: NOV 2012 - NOV 2013		500.00
Your membership helps to build a better Antelope Valley!		
Total		\$500.00
The Antelope Valley Board of Trade is a nonprofit organization: 501(c)6 / ID# 95-1961103.		
Balance Due		\$500.00

**PALMDALE WATER DISTRICT
BOARD MEMORANDUM**

DATE: September 6, 2012 **September 12, 2012**
TO: BOARD OF DIRECTORS **Board Meeting**
FROM: Michael Williams, Finance Manager/CFO
VIA: Mr. Dennis D. LaMoreaux, General Manager
RE: ***AGENDA ITEM NO. 7.7 – CONSIDERATION AND POSSIBLE ACTION
ON STARNIK CONTRACT***

Recommendation:

Staff recommends approving the contract with Starnik Systems Incorporated for the use and implementation of their Utility Billing Software, Utility TrakR. At the regular Board meeting held August 22, 2012, the Board approved the agreement pending our legal counsel approval of the contract language. Concessions were gained by our legal counsel with the main points of interest addressed in the attached letter. Legal counsel felt it was important to bring the full agreement back to the Board for approval.

Alternative Options:

Continue to look for a replacement software package that requires no huge outlay of cash to purchase the software, or purchase a new software package with a cost of \$500,000 to \$600,000.

Impact of Taking No Action:

Continue using the current antiquated, dysfunctional Utility Billing Software from Cogsdale, Incorporated.

Background:

The current Cogsdale Utility Billing Software package was brought into the District back in the late 2004, early 2005 time frame. Through their demos they showed that they were the best fit for our operation, however, over the years what was shown through the demos did not hold true in live production.

The Cogsdale Utility Billing system has not lived up to its promises and has been a constant disappointment in its performance. It is my opinion that the use of its current

table structure is antiquated and the software package needs a complete re-write to take advantage of today's technology, but this is costly and time consuming and the parent company is unwilling to make the needed changes and improvements due to costs.

Over the years, since the software was in place, numerous hours of staff time, as well as the initial outlay of cash to purchase the software, and the annual maintenance and support payments, was a huge investment in the system and not easily replaced.

Starnik System Incorporated and their Utility Billing product is called Utility TrakR. What makes them different and what makes them a viable solution to the Cogsdale dilemma is that their software is "CLOUD BASED." What this means to us is that we do not have to purchase the software, we only rent it. So there is no huge outlay of cash in the range of \$500K to \$600K to purchase the software. We would be billed monthly based on the number of bills we generate. The cost to use their system, on an annual basis, is approximately the same cost as our annual maintenance and support agreement with Cogsdale.

Strategic Plan Element:

7.0 Customer Service

Budget:

The effect on the budget is minimal, with possible annual savings. Exact savings are difficult to determine since we will be billed on a per account basis. Cogsdale has notified us of a 10% increase in annual maintenance and support upon renewal.

Supporting Documents:

Starnik Agreement

APPLICATION SERVICES AGREEMENT

THIS AGREEMENT ("Agreement") is entered into between **Starnik Systems Inc.** ("Licensor"), a Texas corporation with its principal place of business located at 5111 80th Street, Lubbock TX 79424, and **Palmdale Water District** ("Licensee"), a California independent special district with its principal place of business located at 2029 East Avenue Q, Palmdale, CA 93550, and will be effective as of **September 1, 2012** (the "Effective Date").

RECITALS

WHEREAS, Licensor is engaged in the business of providing access to certain application software; and

WHEREAS, both Licensor and Licensee desire that Licensee be able to access and use such software on the terms set forth in this Agreement.

NOW, THEREFORE, Licensor and Licensee agree as follows:

1. Definitions

Agreement is defined in the preamble.

Authorized Server means Licensor's server or the server of Licensor's third-party hosting supplier.

Documentation means Licensor's documentation for its customer's use of the Software.

Effective Date is defined in the preamble.

Fees means Licensor's fees for the Licensor Materials and any Services as set forth in the Pricing Schedule.

Change Order Form means any order form that may be executed by Licensee and Licensor requesting any Services or changes to a previous order, which must be in the form attached hereto as Exhibit B or in another format specified by Licensor from time to time.

Initial Order Form means the order form for Licensee's initial subscription to access and use the Licensed Materials and/or to request any Services, a copy of which is attached to this Agreement as Exhibit A and incorporated herein.

License is defined in Section 2.

Licensee is defined in the preamble.

Licensee Data means data that Licensee enters in the course of using the Software.

Licensor is defined in the preamble.

Licensor Confidential Information means the Licensed Materials, the terms and conditions of this Agreement (including without limitation any pricing terms), and any other non-public information of Licensor to which Licensee gains access in the course of carrying out this Agreement.

Licensed Materials means the Software and associated Documentation specified in an Order Form and accessed at www.starnik.net, or such other URL as the Licensor may specify, as well as any materials delivered by Licensor to Licensee as the result of any Services.

Order Form means the Initial Order Form, any Change Order Form, or any Request for License Increase.

Pricing Schedule means Licensor's schedule of prices for products and services in effect at the time such products and services are provided. A copy of the Pricing Schedule as of the Effective Date is attached to this Agreement and incorporated herein as Schedule 1.

Personnel means Licensee's employees, customers, and contractors who are bound by confidentiality restrictions at least as restrictive as this Agreement provides.

Request for License Increase means an order form that may be submitted by Licensee and accepted by Licensor specifying an increase in the number of units, communities, or other metric by which exploitation of the Licensed Materials is measured, which must be in the form attached hereto as Exhibit C or in another format specified by Licensor from time to time.

Services means any setup, training, troubleshooting, programming, customization, branding, or other services performed by Licensor upon request from Licensee.

Software means the application software specified in an Order Form in object code form only.

Subscription Period means the period during which Licensee has paid a Fee to use particular features of the Licensed Materials as specified in the applicable Order Form. For example only and without limitation, if an Order Form specifies that Licensee may subscribe to particular Software for a monthly Fee, then the Subscription Period shall be the month covered by the Fee paid by Licensee.

2. License Grant and Restrictions

A. Conditioned upon Licensee's compliance with the terms and conditions herein, including without limitation Licensee's payment of all Fees when due, Licensor hereby grants Licensee a non-exclusive license to permit its Personnel within the United States during the applicable Subscription Period to: (i) access and use the Software (including the right to store Licensee Data) on the Authorized Server over the Internet; (ii) use the Documentation and any other Licensed Materials (if any) solely to support Licensee's use of the Software in accordance with this Agreement (the "License").

B. Licensor expressly reserves all rights in the Licensed Materials not specifically granted to Licensee; there are no implied rights to the Licensed Materials. It is acknowledged that all right, title and interest in the Licensed Materials will remain with Licensor (or third party suppliers, if applicable) and that the Licensed Materials are licensed on a subscription basis and not "sold" to Licensee. Unless specifically agreed in writing by Licensor, Licensor's exclusive ownership rights extend to any update, adaptation, translation, customization, or derivative work of the Licensed Materials, including without limitation as a result of any Services.

C. Licensee will use the Licensed Materials only for Licensee's internal business operations and will not permit the Licensed Materials to be used by or for the benefit of any third party. Licensee will not have the right to sublicense, lease, sell, or otherwise transfer the License, any Licensed Materials, or any portion thereof to any third party. Licensee may not (and may not encourage, enable, or assist any third party to) copy, modify, translate, reverse engineer, decompile, decrypt, disassemble, attempt to derive the source code of, or create derivative works of the Licensed Materials (except as and only to the extent any of the foregoing restrictions are prohibited by applicable law or to the extent as may be permitted by licensing terms governing use of open-sourced components included in the Licensed Materials). Licensee agrees to use the Licensed Materials in a manner that complies with all applicable laws, including copyright and all other intellectual property laws.

D. Licensee will not: (i) transmit or share identification or password codes to persons other than its Personnel within the United States, (ii) permit identification or password codes to be cached in proxy servers and accessed by individuals who are not Personnel, or (iii) permit access to the Licensed Materials through a single identification or password code being made available to multiple users on a network.

E. Licensee will comply at all times with Licensor's terms of service and the terms of service of Licensor's third-party hosting supplier as the foregoing are made available to Licensee and revised from time to time.

F. Licensee will not exploit the Licensed Materials in any unauthorized manner whatsoever, including but not limited to by trespass. Licensee will not knowingly, intentionally, or recklessly interfere with the operation of the Licensed Materials or Licensor's performance of any Services or cause damage or malfunction of any software, hardware, data, systems, services, or networks, including without limitation through hacking, spoofing, denial of service attacks, worms, viruses, Trojan horses, or other technical means.

G. Licensee will not export or re-export the Licensed Materials in violation of any laws of the United States or any other jurisdiction, including without limitation (i) into any U.S. embargoed countries; or (ii) to anyone on the U.S. Treasury Department's list of Specially Designated Nationals or the U.S. Department of Commerce Denied Person's List or Denied Entity List. Licensee represents and warrants that neither Licensee nor its Personnel are located in any such country or on any such list.

H. The Licensed Materials are "Commercial Items" as that term is defined in 48 C.F.R. §2.101, consisting of "Commercial Computer Software" and "Commercial Computer Software Documentation", as such terms are defined or used in 48 C.F.R. §12.212, 48 C.F.R. §227.7202, and 48 C.F.R. §252.227-7014, as applicable. Consistent with 48 C.F.R. §12.212, 48 C.F.R. §252.227-7015, 48 C.F.R. §227.7202-1 through 227.7202-4, 48 C.F.R. §52.227-19, and other relevant sections of the United States Code of Federal Regulations, as applicable, the Licensed Materials are distributed and licensed to the United States Government solely (i) as Commercial Items; and (ii) according to the terms and conditions contained in this Agreement.

3. Order Forms, Fees, and Payment

A. Licensee will request access to, and use of, all Licensed Materials and will order any Services through the applicable Order Form. Licensor may accept or reject any Order Form in its sole discretion.

B. Licensee will pay Licensor all Fees for access to, and use of, the Licensed Materials and for any Services as specified in an Order Form, in accordance with the Pricing Schedule. All Fees are quoted and must be paid in U.S. dollars. Fees are incurred upon acceptance by Licensor of an Order Form and are non-cancellable for any reason, unless otherwise specified in the applicable Order Form or Pricing Schedule. Fixed one-time fees and fixed recurring fees must be paid in advance, and time and materials charges and usage charges will be payable in arrears.

C. Licensor may revise the Pricing Schedule to increase or decrease prices in its sole discretion no more frequently than once every twelve (12) months. In addition, Licensor may revise the Pricing Schedule at any time in its sole

discretion to discontinue any products or services or include new or revised products or services and the prices therefor; if Licensee orders any such new or revised products or services, the terms of this Agreement will apply to any such order. In the event Licensor makes any change to the Pricing Schedule affecting Licensee as permitted herein, Licensor will notify Licensee of such change. Any price changes will take effect immediately upon notice to Licensee.

D. The Pricing Schedule and Order Forms may contain additional or different payment terms as those set forth herein. In the event of any conflict between the terms set forth herein and in the Pricing Schedule or any Order Form, the terms in the Pricing Schedule or any Order Form shall control. In the event of any conflict between the terms set forth in the Pricing Schedule and in any Order Form, the terms in the Order Form shall control.

E. Licensor will have no obligation to invoice Licensee except as provided in this paragraph. Licensor will invoice Licensee for any Services that are provided on a time-and-materials basis, as well as for any travel, administrative, equipment, and out-of-pocket expenses incurred in conjunction with any Services (such expenses are not included in any Fees stated in an Order Form unless expressly itemized therein). In addition, if the amount of Licensee Data exceeds the base storage space allotted by Licensor, then Licensor will calculate the average excess storage consumed each month and will invoice Licensee quarterly for such excess storage at the per-megabyte fee specified in the Pricing Schedule.

F. Fees quoted do not include, and Licensee will pay, indemnify, and hold harmless Licensor from, all sales/use, gross receipts, value-added, GST, personal property or other tax (including interest and penalties imposed thereon) on the transaction contemplated herein, other than taxes based on the net income or profits of Licensor.

G. Licensee will pay each Licensor invoice within thirty (30) days of the date of the invoice, except as otherwise noted on the applicable Order Form.

H. Licensee may not withhold or "setoff" any Fees. Licensor reserves the right to restrict or terminate access to, and use of, the Licensed Materials if any Fees are not paid when due. Any late payment will be subject to any costs of collection (including reasonable attorneys' fees) and will bear interest at the lesser of 1.5% per month or the maximum rate allowable by law.

I. If Licensor discontinues providing access to any Licensed Materials, Licensor will refund to Licensee the portion of any Fees paid by Licensee for the discontinued portion of the Subscription Period.

4. Technical Support

A. Telephone and internet based technical support will be provided by Licensor to Licensee only during normal hours of operation (currently 9 a.m. to 5:00 p.m., Licensor local time) and only for issues relating to the Licensed Materials only. Only Licensee's designated contact person may submit service requests. Requests must be made in accordance with Licensor instructions. Licensor will have no obligation to provide technical support to any of Licensee's customers. Unlimited support will be provided for the first three months; thereafter a maximum of ten support requests will be handled free of charge per month. Licensor may, but is not required to, provide technical support beyond the stated maximum at Licensor's then-current Fees for such support.

B. Licensee is responsible for providing, and for the quality of, Internet and local network connections and any other equipment necessary for Licensee to access or use the Licensed Materials other than the Authorized Server.

C. Licensor may, but is not required, to update, upgrade, extend, or otherwise modify the Licensed Materials or any features or functionality included therein at any time without notice to Licensee.

5. Term and Termination

A. The initial term of this Agreement will commence on the Effective Date and will continue for a period of one (1) year. Thereafter, this Agreement will automatically renew for successive one (1) year periods unless either party gives the other party, not fewer than sixty (60) days before the end of the then-current period, notice of its intent not to renew, or unless terminated earlier as set forth below.

B. Either party may terminate this agreement for material breach by the other party by providing notice to the breaching party, which termination shall occur automatically if such breach is not cured within a period of twenty-one (21) days following such notice. Termination for breach will not preclude the terminating party from exercising any other remedies for breach.

C. Upon expiration or termination of this Agreement, all of Licensee's rights and access to the Licensed Materials hereunder will cease, and Licensee will destroy all Licensed Materials and Licensor Confidential Information in its possession, provided that termination will have no effect on Licensee's payment obligations or the parties' rights or obligations under Sections 6 ("Licensee Data") through 22 ("Counterparts"), or any other provision which by its nature or terms should survive.

- D. In the event of termination or expiration of this Agreement, Licensor will make a final backup of Licensee Data and provide the backup media to Licensee at actual cost of duplication, upon request by Licensee, provided that Licensee has paid all Fees and is otherwise in compliance with this Agreement. In addition, Licensor: (a) shall destroy all copies of Licensee Data stored in its live databases within six (6) months after the termination or expiration of this Agreement, at its own cost, provided that Licensor may retain Licensee Data in backup or archival storage after the end of such period, subject to Licensor's obligations under Section 8B below with respect to any such retained Licensee Data; and (b) shall not make or retain any copies of Licensee Data for its own use (other than archival use) or for the use of any other third parties without Licensee's written consent.

6. Licensee Data

- A. Licensee will ensure that the Licensee Data does not contain any obscene, pornographic, offensive, or defamatory content of any kind or any viruses or any other computer code, files, or programs that may harm, disrupt, or limit the normal operation of the Licensed Materials.
- B. Licensee will not collect or use any Licensee Data in any manner that violates any statute, regulation, rule, order, or other law, including without limitation any data privacy or security laws.

7. Ownership of Intellectual Property

- A. As between Licensor and Licensee, Licensor owns all right, title and interest, including all intellectual property rights, in and to the Licensed Materials, as well as to any code, documentation, inventions, data, content, or other work product conceived or developed by Licensor in the course of performing any Services. Without limiting the generality of the foregoing, Licensee acknowledges that Licensor owns, and may make available to its other customers, any or all bug-fixes, modifications, expansions, or enhancements to any Licensed Materials or any features or functionality therein made at Licensee's suggestion or request, in response to any feedback from Licensee, or in the course of performing any Services.
- B. As between Licensor and Licensee, Licensee owns all right, title and interest, including all intellectual property rights, in and to Licensee Data.
- C. This Agreement does not grant Licensee any rights to use any trademarks, service marks, trade names, or logos belonging to Licensor.
- D. Licensor will have the right to use Licensee's trade name, trademarks and logos to identify Licensee as a customer of Licensor in its advertising, marketing, and promotional materials, including but not limited to its website, during the term of this Agreement.

8. Confidentiality

A. Licensor Confidential Information is valuable, confidential information that is proprietary to Licensor. Licensee will not disclose Licensor Confidential Information to any third party and will safeguard access to Licensor Confidential Information using at least the same standard of care that Licensee uses for its own confidential materials and, in any event, a reasonable level of care. Licensee will not use Licensor Confidential Information except as necessary to further the purposes of this Agreement. Licensee acknowledges that violation of this paragraph would cause irreparable harm to Licensor not adequately compensable by monetary damages. Any obligations of Licensee under this Paragraph 8A shall not apply to Licensor Confidential Information that: (i) is or becomes, through no act or failure to act on the part of Licensee, generally known or available; (ii) is rightfully known by Licensee without obligation of confidentiality at the time of receiving such information; (iii) is hereafter furnished to Licensee by a third party, as a matter of right and without restriction on disclosure; (iv) is independently developed by Licensee without use of, or reference to, any Licensor Confidential Information; or (v) is the subject of a written permission to disclose provided by Licensor. Further, notwithstanding the foregoing, Licensee may disclose any Licensor Confidential Information if such disclosure: (1) is in response to a valid order of a court or other governmental body; (2) is otherwise required by law; or (3) is otherwise necessary to establish rights or enforce obligations under this Agreement, but only to the extent that any such disclosure is necessary.

B. Licensor will hold all Licensee Data in confidence and will not disclose it to any third party or use it for any purposes other than performance of this Agreement without the prior written consent of Licensee. Licensor will safeguard access to Licensee Data using at least the same standard of care that Licensor uses for its own confidential materials and, in any event, a reasonable level of care. This obligation does not apply to Licensee Data that: (i) is or becomes, through no act or failure to act on the part of Licensor, generally known or available; (ii) is rightfully known by Licensor without obligation of confidentiality at the time of receiving such information; (iii) is hereafter furnished to Licensor by a third party, as a matter of right and without restriction on disclosure; (iv) is independently developed by Licensor without use of, or reference to, any Licensee Data; or (v) is the subject of a written permission to disclose provided by Licensee. Further, notwithstanding the foregoing, Licensor may disclose any Licensee Data if such disclosure: (1) is in response to a valid order of a court or other governmental body; (2) is otherwise required by law; or (3) is otherwise necessary to

establish rights or enforce obligations under this Agreement, but only to the extent that any such disclosure is necessary.

C. During the term of this Agreement and for two (2) years thereafter, Licensee will not, directly or indirectly: (i) solicit any employee or independent contractor of Licensor (or any person who has been an employee or independent contractor of Licensor at any time within the prior twelve (12) months) for the purposes of hiring them or otherwise causing them to cease employment or engagement with Licensor; or (ii) hire or otherwise engage the services of any such current or former employee or independent contractor. Licensee acknowledges that this paragraph is necessary to protect Licensor's trade secrets and other Licensor Confidential Information.

9. Disclaimer of Warranties

A. EXCEPT AS OTHERWISE EXPRESSLY PROVIDED IN SECTION 9E, 9F, AND SECTION 10, LICENSEE ASSUMES FULL RESPONSIBILITY FOR USE OF THE LICENSED MATERIALS AND SERVICES TO ACHIEVE LICENSEE'S INTENDED PURPOSES AND FOR VERIFYING THE RESULTS THAT LICENSEE OBTAINS. LICENSOR AND ITS SUPPLIERS DISCLAIM ANY WARRANTY THAT THE LICENSED MATERIALS OR SERVICES WILL MEET LICENSEE'S REQUIREMENTS; THAT USE OF THE LICENSED MATERIALS OR SERVICES WILL BE UNINTERRUPTED OR ERROR FREE; OR THAT THE LICENSED MATERIALS ARE OR WILL BE FREE FROM BUGS, VIRUSES, OTHER MALICIOUS CODE, ERRORS, OR OTHER PROGRAM LIMITATIONS.

B. EXCEPT AS OTHERWISE EXPRESSLY PROVIDED IN SECTION 9E, 9F, AND SECTION 10, THE LICENSED MATERIALS AND SERVICES ARE PROVIDED "AS IS," AND TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, LICENSOR DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER STATUTORY, EXPRESS OR IMPLIED, REGARDING THE LICENSED MATERIALS AND SERVICES, AND RELATED MATERIALS OR CONTENT, INCLUDING WITHOUT LIMITATION WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE, SECURITY, MERCHANTABILITY, OR NONINFRINGEMENT. LICENSOR DISCLAIMS ALL EQUITABLE INDEMNITIES PERTAINING THERETO.

C. LICENSOR AND ITS SUPPLIERS ARE NOT ENGAGED IN RENDERING LEGAL, ACCOUNTING, BILLING OR OTHER PROFESSIONAL SERVICES. IF LEGAL ADVICE OR OTHER EXPERT ASSISTANCE IS REQUIRED, THE SERVICES OF A COMPETENT PROFESSIONAL SHOULD BE SOUGHT. LICENSOR EXPRESSLY DISCLAIMS ANY REPRESENTATIONS OR WARRANTIES THAT LICENSEE'S USE OF THE LICENSED MATERIALS OR SERVICES WILL SATISFY ANY STATUTORY OR REGULATORY OBLIGATIONS, OR WILL ASSIST WITH, GUARANTEE OR OTHERWISE ENSURE COMPLIANCE WITH ANY APPLICABLE LAWS OR REGULATIONS, INCLUDING BUT NOT LIMITED TO THE HEALTH INSURANCE PORTABILITY AND ACCOUNTABILITY ACT OF 1996 ("HIPAA"), THE GRAMM-LEACH-BLILEY ACT OF 1999, THE SARBANES-OXLEY ACT OF 2002, OR OTHER FEDERAL OR STATE STATUTES OR REGULATIONS.

D. LICENSEE IS SOLELY RESPONSIBLE FOR ENSURING THAT ITS USE OF THE LICENSED MATERIALS, SERVICES, LICENSEE DATA, OR OTHER RELATED CONTENT IS IN ACCORDANCE WITH ALL APPLICABLE STATUTES, REGULATIONS, RULES, ORDERS, AND OTHER LAWS, INCLUDING WITHOUT LIMITATION ALL DATA PRIVACY AND SECURITY LAWS. IT IS LICENSEE'S RESPONSIBILITY TO KEEP ABREAST OF CHANGES IN LAWS, REGULATIONS, BILLING AND ACCOUNTING PRACTICES THAT AFFECT ITS BUSINESS.

E. Each party represents and warrants to the other party that: (i) upon execution of this Agreement by the person indicated as signing for such party on the signature page hereto, nothing further is required to be done by such party or any third party to make this Agreement binding on, and enforceable against, such party in accordance with its terms, except to the extent that such enforceability may be limited by the effect, if any, of any applicable bankruptcy, reorganization, insolvency, moratorium, or other law affecting the enforcement of creditors' rights generally, and general principles of equity as applied in any action or proceeding to enforce this Agreement; and (ii) the execution and performance of this Agreement by such party does not and will not violate or conflict with such party's organizational documents, any agreement or understanding to which such party is a party or by which it is bound, or, to such party's knowledge, any law applicable to such party. Each person signing this Agreement represents and warrants that such person has the right, power, and authority to execute this Agreement on behalf of the party for which such person has executed this Agreement as indicated on the signature page hereto and to bind such party to all of the terms and conditions of this Agreement.

F. Licensor represents and warrants to Licensee that Licensor either owns 100% of the copyright in the Licensed Materials or possesses sufficient licenses in such copyrights to license such Licensed Materials to Licensee on the terms and conditions of this Agreement.

10. Limitation of Liability, Indemnification

A. LICENSOR WILL NOT BE LIABLE TO LICENSEE FOR PERSONAL INJURY, LOST PROFITS, LOSS OF DATA, OR FOR SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES INCURRED OR SUFFERED BY LICENSEE ARISING AS A RESULT OF OR RELATED TO THIS AGREEMENT OR ANY LICENSED MATERIALS OR SERVICES, WHETHER IN CONTRACT, TORT OR OTHERWISE, EVEN IF LICENSOR HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSS OR DAMAGES.

B. Licensor, at its own expense, will defend and hold harmless Licensee from any claim made or any suit or proceeding brought against Licensee by a third party insofar as it is based on infringement, by any Software, Documentation, or other Licensed Materials furnished to Licensee under this Agreement, of any U.S. copyright, or any U.S. patent in existence on the date the Licensed Materials initially were provided to Licensee, provided that Licensor had knowledge of such infringement of such U.S. patent as of such date. Licensor also shall pay any resulting damages, judgments, penalties, costs and expenses finally awarded to a third party against Licensee in any such action, to the extent they are attributable to such infringement. Licensor will have no responsibility for any costs or damages agreed to in a settlement of any such claim, suit, or proceeding except to the extent attributable to such infringement, and will have no responsibility for the settlement of any claim, suit, or proceeding made by Licensee without Licensor's prior written approval. Licensor's obligations under this Section 10B are conditioned on Licensee: notifying Licensor promptly in writing of such claim, suit, or proceeding; giving Licensor sole control, at Licensor's option, of the defense thereof and any related settlement negotiations; and, at Licensor's request and reasonable expense, cooperating in such defense and settlement.

C. If any Software, Documentation, and/or other Licensed Materials are, or in Licensor's opinion are reasonably likely to be, held to infringe and the use of such Licensed Materials enjoined, then Licensor, at its sole expense, will do one of the following: (i) Procure for Licensee the right to continue using the infringing or potentially infringing Licensed Materials; (ii) Replace the infringing or potentially infringing Licensed Materials with non-infringing Licensed Materials; or (iii) Modify the infringing or potentially infringing Licensed Materials so that they become non-infringing. If none of the foregoing remedies are commercially feasible, then Licensor may terminate (in whole or in part) the License granted to Licensee under this Agreement upon sixty (60) days' notice to Licensee, and, promptly following such termination, will return to Licensee any Fees paid in advance for use of the affected Licensed Materials during any period after such termination.

D. Sections 10B and 10C state Licensor's entire liability, and Licensee's exclusive remedy, with respect to claims or actions relating to infringement or other violation of any person's intellectual property rights relating to the Software, Documentation, other Licensed Materials, or this Agreement. Notwithstanding the terms of such Sections, Licensor will have no obligation under Section 10B or 10C or otherwise with respect to any claim or action based upon: (a) any unauthorized use, reproduction, configuration, or distribution of any Licensed Materials by Licensee or any of Licensee's end users, if such claim or action would not have arisen but for such unauthorized activity; (b) any use of any Licensed Materials in combination with other products, equipment, software, services, or data not supplied by Licensor or specified by Licensor in writing in the Documentation, if such claim or action would not have arisen but for such combination; (c) any modification of any Licensed Materials by any person other than Licensor, if such claim or action would not have arisen but for such modification; (d) any use of any Licensed Materials to perform any particular task or achieve a particular result except as specifically instructed by the Documentation, if such claim or action would not have arisen but for such use; or (e) compliance with any specifications, requests (including without limitation requests for particular Software functionality), or instructions of Licensee, if such claim or action would not have arisen but for such compliance ((a) through (e), collectively, the "**Excepted Causes**").

E. Licensee will defend, indemnify, and hold harmless Licensor, its parents, subsidiaries, affiliates, and its and their officers, directors, employees, and agents, from and against any third-party claims arising out of or in conjunction with Licensee's collection or use of any Licensee Data, the Excepted Causes, or any breach by Licensee of this Agreement, as well as all costs, expenses, and liabilities (including without limitation reasonable attorneys' fees) incurred in connection therewith.

F. Licensor's total liability under this Agreement, regardless of cause or theory of recovery, will not exceed one hundred thousand dollars (\$100,000), for any and all claims other than for fraud by Licensor.

11. Headings, Interpretation

Headings are for convenience only and may not be considered in interpreting this Agreement. This Agreement will be construed as to its fair meaning and not strictly for or against either party.

12. Relationship of Parties

Licensor is an independent contractor of Licensee. Nothing in this Agreement will create or imply an agency relationship between the parties, nor will this Agreement be deemed to constitute a joint venture or partnership between the parties.

13. Non-assignment

This Agreement is personal to Licensee. Licensee may not assign, delegate, pledge, hypothecate, encumber, or otherwise transfer this Agreement, or any rights or obligations hereunder, whether pursuant to operation of law or otherwise, without Licensor's prior written consent, which Licensor may withhold in its sole discretion. Any attempt to the contrary will be void and of no legal effect. Except as set forth in this paragraph, this Agreement shall be binding upon, and inure to the benefit of, the parties and their respective successors and assigns.

14. Dispute Resolution

A. Any dispute arising under or relating to this Agreement or its breach will be subject to binding arbitration by a single arbitrator administered by JAMS pursuant to its Streamlined Arbitration Rules and Procedures in Lubbock, Lubbock County, Texas. The award of the arbitrator will include a written explanation of the decision, will be limited to remedies otherwise available in court, and will be binding upon the parties and enforceable in any court of competent jurisdiction.

B. Subsection A notwithstanding, in the event of actual or threatened breach of Section 2 or 8 of this Agreement, Licensor may obtain, without posting any bond, equitable relief in state or federal court in Los Angeles County, California. Licensee expressly waives any objection or defense based on lack of personal jurisdiction or venue in connection with any such action.

C. EACH PARTY EXPRESSLY AND KNOWINGLY WAIVES ITS RIGHT TO TRIAL BY JURY WITH RESPECT TO ANY DISPUTE ARISING UNDER OR PERTAINING TO THIS AGREEMENT OR ITS BREACH.

15. Governing Law

This Agreement will be governed by and construed in accordance with the substantive laws of the United States and the State of Texas (including without limitation federal law applicable therein), without regard to any conflict of laws principles. The United Nations Convention on Contracts for the International Sale of Goods and the Unfair Contracts Act in the United Kingdom will not apply to this Agreement.

16. Attorneys' Fees

In the event of any litigation or arbitration to enforce the terms of this Agreement, the prevailing party will be entitled to an award of reasonable attorneys' fees and costs.

17. Notices

Any notice required or permitted to be given herein will be given in writing and may be personally served or sent by facsimile, electronic mail, by a nationally recognized overnight delivery service, such as Federal Express (with postage prepaid and confirmation of delivery requested), or by registered or certified mail (with postage prepaid and return receipt requested). Such notice will be deemed to have been given if properly addressed and (i) if personally given, when received; (ii) if by facsimile or electronic mail, on the first business day occurring on or after the day transmission of such notice is confirmed by the recipient or by the transmitting machine, whichever occurs first; or (iii) if sent by overnight delivery service or certified or register mail, when received as evidenced by the carrier's confirmation or return receipt or by acknowledgment of the recipient, whichever occurs first. Contact information for notice purposes will be as set forth beneath the signature lines below until changed by notice given as provided herein. For the avoidance of doubt, the parties consent to receive notices by electronic mail and agree that any such notices will satisfy any legal communications requirements.

18. Severability

If any term of this Agreement is found to be unenforceable or contrary to law, it will be modified to the least extent necessary to make it enforceable, and the remaining portions of this Agreement will remain in full force and effect.

19. Force Majeure

Except as regards payment obligations, neither party will be held responsible for any delay or failure in performance of any part of this Agreement to the extent that such performance violates, or in the reasonable opinion of such party would violate, any applicable statute, regulation, rule, order, or other law or to the extent such delay or failure otherwise is caused by events or circumstances beyond such party's reasonable control, including without limitation any act of God, riot, war, terrorist act, civil unrest, flood, landslide, volcanic eruption, earthquake, epidemic, famine, plague, labor disturbances, or strikes.

20. Waiver and Modification

The waiver by any party of any breach or covenant will not be construed to be a waiver of any succeeding breach or any other covenant. All waivers must be in writing, and signed by the party waiving its rights. Except as otherwise

provided herein, this Agreement may be modified only by a written instrument executed by authorized representatives of the parties hereto.

21. Entire Agreement

This Agreement, including all exhibits and schedules attached hereto, constitutes the entire agreement between the parties with respect to its subject matter and supersedes all prior agreements, proposals, negotiations, representations or communications relating to that subject matter. Both parties acknowledge that they have not been induced to enter into this Agreement by any representations or promises not specifically stated herein. The terms of any purchase order or any pre-printed or other forms (except Order Forms as specified herein) provided by Licensee either before or after the Effective Date shall not apply to this Agreement or to any Licensed Materials or Services provided hereunder.

22. Counterparts

This Agreement may be executed in multiple counterparts (which may be delivered by facsimile transmission), each of which shall be deemed an original and all of which will constitute one and the same instrument.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives.

Licensor: **Starnik Systems Inc.**

Licensee: **Palmdale Water District**

By: _____

By: _____

Name: _____

Name: _____

Title: _____

Title: _____

Date: _____

Date: _____

Contact Information for Notices:

Contact Information for Notices:

Address: 7820 Orlando Avenue
Lubbock, TX 79423

Address: _____

Facsimile: 817-900-7666

Facsimile: _____

Telephone: 806-792-9863

Telephone: _____

Electronic Mail: accounting@starnik.com

Electronic Mail: _____

ATTACHMENTS:

Exhibit A – Initial Order Form

Exhibit B – Change Order Form

Exhibit C – Request for License Increase

Schedule 1 – Pricing Schedule as of the Effective Date

EXHIBIT A**INITIAL ORDER FORM**

THIS INITIAL ORDER FORM is entered into under the terms of that certain Application Services Agreement between "Licensee" specified below and **Starnik Systems Inc.** ("Licensor"), a Texas Corporation with offices at 7820 Orlando Avenue, Lubbock TX 79423 and the "Licensee" specified below dated as of the date specified below (the "Agreement").

Payment Terms: Fees will NOT be invoiced. The total amount of order for the first subscription period is due with delivery of this Initial Order Form and subsequent fees must be paid in advance by the 25th day of the month prior to the commencement of the Subscription Period to: **Starnik Systems Inc., 7820 Orlando Avenue, Lubbock, TX 79423.**

Date of Agreement: September 1, 2012

Software:

UtilityTrakR - Base Module
UtilityTrakR - Ebill and Import Module
EnergyAuditR - Base Module

Subscription Period: Monthly

Setup – One Time Fee	Units	Price	Total
Hosting, Backups etc	30,000	\$400	\$400
UtilityTrakR w/Enhanced Module	30,000	\$125 per 500 units	\$7,500
Total One-Time Setup Fee:			\$7,900
Software License Fee - Per Month	Units		Total
Hosting, Backups etc.	30,000	\$400	\$400
UtilityTrakR w/Enhanced Module	30,000	\$125 per 500 units	\$7,500
Total License Fee per Subscription Period			\$7,900
Total Amount at start of subscription			\$15,800

NOTE: Fees stated above reflect Licensor's current Pricing Schedule, as defined in the Agreement. Licensee's actual Fees after the first Subscription Period will be as reflected in Licensor's Pricing Schedule in effect for the applicable Subscription Period, as provided in the Agreement. Fees are non-cancelable for the term of the Agreement and sums paid are non-refundable, except as expressly stated in the Agreement.

This Initial Order Form will be implemented three business days following the date the Agreement and this Initial Order Form are submitted by Licensee and accepted by Licensor and all required Fees are paid to Licensor, provided that if such date is after the 25th of the month, this Initial Order Form will be implemented the following month.

ACCEPTED AND AGREED:

LICENSOR: Starnik Systems Inc.**LICENSEE: Palmdale Water District**

By: _____

By: _____

Print Name: _____

Print Name: _____

Title: _____

Title: _____

Date: _____

Date: _____

EXHIBIT B**CHANGE ORDER FORM**

THIS CHANGE ORDER FORM is entered into under the terms of that certain Application Services Agreement between the "Licensee" specified below and **Starnik Systems Inc.** ("Licensor"), a Texas Corporation with offices at 7820 Orlando Avenue, Lubbock TX 79423 and dated as of the date specified below (the "Agreement").

Payment Terms: Recurring fees and flat fees for any Services will NOT be invoiced. Fees for services charged on a time and materials basis will be invoiced. The total amount of order for the first Subscription Period is due with delivery of this Change Order Form. License fees for subsequent Subscription Periods must be paid in advance by the 25th day of the month prior to the commencement of the Subscription Period. Invoices are due upon receipt. Payments must be made in cash or by check drawn on a local or national bank to: Starnik Systems Inc., 7820 Orlando Avenue, Lubbock, TX 79423.

Date of Original Agreement: September 1, 2012**Software:**_____
_____**Subscription Period:** Monthly; specify mid-Subscription Period effective date here, if needed: _____**Services****Services Fees****Services Total:****Software****Total Units Price Quantity Total****New Recurring License Fee Total:** _____**Total Amount of Order First Changed Subscription Period:**

NOTE: All Fees stated above reflect Licensor's current Pricing Schedule, as defined in the Agreement. Licensee's actual Fees after the first changed month will be as reflected in Licensor's Pricing Schedule in effect for the applicable month, as provided in the Agreement. Fees are non-cancelable for the stated Subscription Period and sums paid are non-refundable, except as expressly stated in the Agreement.

This Change Order Form will be implemented on the first day of the next Subscription Period following the date it is submitted by Licensee and accepted by Licensor and all required Fees are paid to Licensor, provided that if such date is after the 25th of the month (or of the last month of a multi-month Subscription Period), this Change Order Form will be implemented the following Subscription Period. If Licensee requires an increase during a Subscription Period, Licensee must state that in the Subscription Period above, and Licensee will be charged for the whole Subscription Period. In such cases, Licensee should allow at least a week from the request date for the increase to become effective.

ACCEPTED AND AGREED:

7820 Orlando Avenue, Lubbock TX 79423
Tel: 806-792-9863; email: info@starnik.com; www.starnik.com
Page 10
31999815v45

Licensee Initials _____
Licensor Initials _____

LICENSOR: Starnik Systems Inc.

By: _____

Print Name: _____

Title: _____

Date: _____

LICENSEE: Palmdale Water District

By: _____

Print Name: _____

Title: _____

Date: _____

EXHIBIT C**REQUEST FOR LICENSE INCREASE**

THIS REQUEST FOR LICENSE INCREASE is submitted by the "Licensee" specified below under the terms of that certain Application Services Agreement between Licensee and **Starnik Systems Inc.** ("Licensor"), a Texas Corporation with offices at 7820 Orlando Avenue, Lubbock TX 79423 effective as of the date set forth below (the "Agreement").

Date of Original Agreement: September 1, 2012

Software:

Subscription Period: Monthly; specify mid-Subscription Period effective date here, if needed: _____

All licensed amounts are in blocks of 500. Please round up to the next multiple of 500 when specifying the number of units below.

Current Licensed Number:	
Requested Increase:	
Total Number (after increase):	

NOTE: Fees for the new total number each Subscription Period will be as reflected in Licensor's Pricing Schedule in effect for the applicable Subscription Period, as provided in the Agreement. Except as stated above, all other terms of the applicable Order Forms and the Agreement apply.

This Request for License Increase will be implemented on the first day of the next Subscription Period following the date it is submitted by Licensee and accepted by Licensor and all required Fees are paid to Licensor, provided that if such date is after the 25th of the month (or of the last month of a multi-month Subscription Period), this Request for License Increase will be implemented the following Subscription Period. If Licensee requires an increase during a Subscription Period, Licensee must state that in the Subscription Period above, and Licensee will be charged for the whole Subscription Period. In such cases, Licensee should allow at least a week from the request date for the increase to become effective.

SUBMITTED AND AGREED:

LICENSEE: **Palmdale Water District**

BY: _____

PRINT NAME: _____

TITLE: _____

DATE: _____

SCHEDULE 1**PRICING SCHEDULE**

(AS OF July 1, 2012)

Setup, License and Other fees to access the following:

UtilityTrakR - Base Module
UtilityTrakR - Ebill and Import Module
EnergyAuditR - Base Module

License Setup fee (One time):	
Hosting, Backups etc.	\$400
UtilityTrakR with Enhanced Module – per 500 unit block	\$125
Monthly license fee	
Hosting, Backups etc.	\$400
UtilityTrakR with Enhanced Module – per 500 unit block	\$125
Other Fees :	
Unlock billing fee	\$100
Per megabyte fee for excess storage for UtilityTrakR	None

Fees for other Services available upon request.

NOTES:

1. All Fees are quoted in U.S. dollars.
2. Fees for Subscription Periods greater than one month will be charged at the monthly rate multiplied by the number of months in the Subscription Period.
3. This Pricing Schedule and all Fees quoted herein are subject to change from time to time as provided in Starnik's agreements with its customers.
4. THIS IS NOT AN ORDER FORM. Prospective customers must enter into an agreement with Starnik and submit an Order Form as provided in that agreement in order to subscribe to any software or order any services.

Document comparison by Workshare Professional on Wednesday, September 05, 2012
11:13:25 AM

Input:	
Document 1 ID	interwovenSite://WESTDMS/WEST/31999815/4
Description	#31999815v4<WEST> - Application Services Agreement (Palmdale Water District)
Document 2 ID	interwovenSite://WESTDMS/WEST/31999815/5
Description	#31999815v5<WEST> - Application Services Agreement (Palmdale Water District)
Rendering set	standard

Legend:	
<u>Insertion</u>	
Deletion	
Moved from	
<u>Moved to</u>	
Style change	
Format change	
Moved deletion	
Inserted cell	
Deleted cell	
Moved cell	
Split/Merged cell	
Padding cell	

Statistics:	
	Count
Insertions	1
Deletions	2
Moved from	0
Moved to	0
Style change	0
Format changed	0
Total changes	3

**PALMDALE WATER DISTRICT
BOARD MEMORANDUM**

DATE: September 7, 2012 **September 12, 2012**
TO: BOARD OF DIRECTORS **Board Meeting**
FROM: Michael Williams, Finance Manager/CFO
VIA: Mr. Dennis D. LaMoreaux, General Manager
RE: ***AGENDA ITEM NO. 7.8 – CONSIDERATION AND POSSIBLE ACTION
ON REVISIONS MADE TO THE RULES AND REGULATIONS IN
REGARDS TO LATE CHARGES***

Recommendation:

Staff recommends approving the suggested changes to the Palmdale Water District's Rules and Regulations as they relate to late charges. The suggested changes are the result of implementing the changes recommended by the "Blow up the Box" committee and the implementation of a new billing template. These changes have been in production for months.

Alternative Options:

None at this time

Impact of Taking No Action:

Continue to produce and mail late notices to customers, along with re-designing the bill template and program changes to the utility billing software.

Background:

Some months ago, the "Blow up the Box" committee met on regular bases to look at ways the District could improve or streamline current processes. One of the areas looked at is how the District handles delinquencies with regards to accounts receivables. After review of the process it was decided that the District should move away from producing and mailing separate late notices to customers and instead inform the customers of the due date and late fees applicable on the original monthly bill. This type of notification is identical to that of mortgage statements.

These changes do not effect the time period in which to pay, nor will it change the process for 48 hour disconnection notices. It simply informs the customer of the time period in which they have to pay their bill and the result of any late fees that will be added if not paid within that time period.

Suggested Changes:

ARTICLE 3, DEFFINITIONS: Remove section J reference to Delinquent Final Notice.

ARTICLE 8, 4, G (2), Delinquent Balances.

Delinquent Balances. If payment for a billing period is not made on or before the 25th day after the Date of Bill specified in the invoice, ~~a Delinquent Final Notice will be mailed to the water service Consumer at least fifteen (15) days prior to disconnection of the service. The Notice will include~~ a late charge will be assessed to the account as listed in Appendix D. giving the customer fifteen (15) days prior to issuance of 48 hour disconnect notice. Upon receipt of bill a Delinquent Final Notice and up to 2-days prior to the date set forth for disconnection, the Consumer may request an amortization payment plan pursuant to Article 8.04(J).

ARTICLE 8, 4, G (4), Contents of Delinquent Final Notice:

Remove Section Completely.

ARTICLE 8, 4, G (5), 48 Hour Disconnect Notice:

48-Hour Disconnect Notice. At least forty-eight (48) hours prior to actual ~~disconnection~~termination as set forth in the Delinquent Final Notice, the District shall make a reasonable, good-faith effort to contact an adult at the premises by telephone, ~~or~~ in person, or provide them with a 48 hour disconnect notice. and provide them with the information set forth in a, b, c, and d of paragraph 4 above in the form of a 48-Hour Disconnect Notice.
The 48 hour disconnect notice shall specify the following information in a clear and legible format:

a. Customer's name and address

b Amount of delinquency

c. Date by which payment must be made

d. Telephone number of the District representative who can provide additional information

~~At least one attempted personal contact shall be deemed to be a reasonable, good-faith effort at contacting an adult at the premises. If unable to contact an adult,~~

~~†~~The District shall leave a 48-Hour Disconnect Notice at or near the entrance to the premises, or the most accessible place if there is no access to the main

entrance. The customer shall be assessed ~~required to pay~~ a 48-Hour Disconnect Notice Fee.

ARTICLE 8, 4, H (2a), 1, For Non-Payment of Bills:

For Non-Payment of Bills

A service may be disconnected for non-payment of periodic bills. Before a service is disconnected, the Consumer will be notified by a 48 hour disconnection notice~~Delinquent Final Notice~~ as set forth in Article 8.04(G). A service may be disconnected for non-payment of bills of a Consumer whether or not the payment delinquency is associated with water service at that service connection or at any other water service connection of that same Consumer.

Strategic Plan Element:

7.0 Customer Service

Budget:

The effect on the budget is a reduction in collection cost of approximately \$39,000 annually because we will not be printing and mailing late notices to the customer.

PALMDALE WATER DISTRICT BOARD MEMORANDUM

DATE: September 7, 2012 **September 12, 2012**
TO: BOARD OF DIRECTORS **Board Meeting**
FROM: Mr. Matthew R. Knudson, Engineering Manager
VIA: Mr. Dennis LaMoreaux, General Manager
RE: ***AGENDA ITEM NO. 7.9 – CONSIDERATION AND POSSIBLE ACTION ON PROFESSIONAL SERVICES AGREEMENT WITH BLACK & VEATCH FOR THE UPDATE OF THE WATERSHED SANITARY SURVEY AND SOURCE WATER ASSESSMENT***

Recommendation:

Authorize staff to execute a Professional Services Agreement with Black & Veatch for the update of the Watershed Sanitary Survey and Source Water Assessment in the not-to-exceed amount of \$46,550.00.

Description:

This action authorizes the Palmdale Water District (District) to enter into a Professional Services Agreement with Black & Veatch utilizing the District's standard agreement developed by legal counsel and delegates the General Manager to execute said agreement.

Source water protection is the first and foremost barrier required in establishing a well developed, multiple-barrier protection and treatment plan for public drinking water supplies. A comprehensive source water protection program can prevent contaminants from entering the public water supply, reduce treatment costs, and increase public confidence in the quality, reliability, and safety of its drinking water supplies.

Background:

The Palmdale Water District (District) completed its first sanitary survey for the Littlerock Reservoir and Palmdale Lake watershed in June of 1993 in accordance with the 1986 Amendments to the Safe Drinking Water Act (SDWA) Surface Water Treatment Rule (SWTR). The SWTR required watershed sanitary surveys and watershed management plans only for surface water supplies qualifying for filtration avoidance. The survey included a summary of the watershed and water supply system, potential contaminate sources, watershed control practices, and water quality information. Furthermore, the SDWA Amendments of 1996 established source water protection as a national priority. These amendments require a new, more comprehensive, watershed-based "prevention" approach be applied to improving and preserving water quality of

the public water supply source. The key elements of this Source Water Assessment Program are to protect surface water supplies, as well as safeguard groundwater supplies through the Wellhead Protection Program.

Since it was initially developed in 1993, the survey was updated in 1997, 2002, and 2007 as mandated by the State of California Title 22, Code of Regulations, Article 7, Section 64665, which requires all water suppliers to conduct a sanitary survey of their watershed at least once every five years. Black & Veatch completed the last three updates for the District and is very familiar with the District's water supply sources and key elements needed to update the District's Watershed Sanitary Survey and Source Water Assessment.

Budget:

Staff is recommending the costs associated with the work being proposed under this agreement be funded from the Water Quality Fee. The following is a summary of the available funds within said fee:

2012 Budgeted Water Quality Fee:	\$1,550,000
Projected 2012 GAC Change-Outs:	(\$1,304,924)
Water Research Foundation (Cr6 Study):	<u>(\$ 14,500)</u>
Available Water Quality Fund:	\$ 230,576

Supporting Documents:

Proposal from Black & Veatch

Strategic Plan Element:

Strategic Element 1.0 – Regulatory Compliance



BLACK & VEATCH
Building a world of difference.

BLACK & VEATCH
CORPORATION
WATER

Mr. Matt Knudson
Engineering Manager
Palmdale Water District
2029 East Avenue Q
Palmdale, CA 93550

July 30, 2012

15615 ALTON
PARKWAY
SUITE 300
IRVINE, CA 92618
USA
+1 949.753.0500 P
+1 949.753.1252 F

Subject: Proposal – Watershed Sanitary Survey and Source Water Assessment Update

Dear Mr. Knudson:

We are pleased to submit this proposal to conduct the Watershed Sanitary Survey and Source Water Assessment 2012 Update for Palmdale Water District. Attached please find our proposal for your review. Upon completing your review, we hope you will agree that our team is best suited to successfully complete this update in a timely and cost-effective manner.

Please review these documents and contact us with any questions or comments. We look forward to working with you on this important project. You can directly reach Mr. Jim Rasmus, our Project Manager, at 858-945-8675 with any questions you may have.

Best Regards,
BLACK & VEATCH

Steve Foellmi, P.E.
Principal-in-Charge

Jim Rasmus, P.E., BCEE
Project Manager



WATERSHED SANITARY SURVEY AND SOURCE WATER ASSESSMENT UPDATE

Palmdale Water District

16 MAY 2012



BLACK & VEATCH
Building a world of difference.

Table of Contents

Table of Contents.....	i
Project Background & Understanding	1
Understanding.....	1
Project Approach	2
Scope of Work	3
Project Tasks.....	3
Task A - Project Management and Review of Existing Information	3
Task B - Delineation of Contribution Areas	4
Task C- Inventory of Potential Contaminant Activities.....	4
Task D - Evaluate the Risk from Identified Potential Contaminant Activities and Conduct a Vulnerability Assessment.....	5
Task E – Review and Evaluate Water Quality Data.....	6
Task F – Regulatory Overview.....	6
Task G – Management Activities Review	7
Project Deliverables	7
Project Team	7
Schedule	8
Fee	9
Appendix A: Select Resumes.....	10

UNDERSTANDING

Under the State of California Title 22 Code of regulations, the sanitary survey needs to be updated again in 2012. In addition to updating the sanitary survey, the District would like to update the Source Water Assessment Program. The most efficient approach is to conduct the watershed sanitary survey update in a manner that is consistent with the State Surface Water Treatment Rule and the Source Water Assessment Program guidelines. Black & Veatch has developed a detailed Scope of Work to ensure that these goals are fulfilled.

The Source Water Assessment Program must include the following elements:

- Delineation of the areas providing source water for public water supply systems

Inventory of the sources of regulated, and certain unregulated, contaminants of concern in the delineated areas to the extent practical

Determination of the vulnerability of each water source to contamination

Public education and outreach

Black & Veatch realizes the importance of involving the public in the Source Water Assessment Program. Active community engagement increases the likelihood that the State's source water protection programs will be developed and implemented once the assessments are completed. As part of our efforts, an executive summary section will be prepared that can be used for public information and outreach.

The assessments should ultimately lead to development of a comprehensive prevention and protection program that includes monitoring contaminants, implementing management measures to control or mitigate sources of contamination, and contingency planning.

Project Approach

Our detailed Scope of Work outlines a plan that achieves the project goals and objectives in the most efficient manner. We have developed the approach to satisfy the following primary project objectives:

Meet the Department of Public Health (DPH) requirements for updating watershed sanitary surveys at least once every five years.

Complete the watershed Sanitary Survey Update in a manner that is consistent with the State Surface Water Treatment Rule and Source Water Assessment guidelines.

Combine the report with the updated source water assessment for the surface water supply.

Review water quality and regulatory compliance.

Furthermore, our Scope of Work includes tasks that meet the following additional project goals:

Verify the delineation of the source water protection zones for the intake.

Conduct an updated inventory of Potential Contaminating Activities (PCAs) within the delineated areas and protection zones, rank their risk levels, and identify their locations on the assessment maps.

Evaluate the risk/vulnerability from potential contaminating activities to the sources of drinking water supply.

Evaluate the water quality data for the intake.



Evaluate the ability of the treatment plant to meet current and upcoming drinking water regulations.

Evaluate the required level of treatment (log removal) for the treatment plant.

Review management activities undertaken over the past five years and recommend additional practices for source water protection.

Scope of Work

The following section provides our Scope of Services arranged in the approximate sequence of completion. We believe that the level of detail proposed is consistent with that of the 2007 Watershed Sanitary Survey Update and DPH expectations. The use of previous available data will be maximized to save the District time and money.

Key changes or activities that have occurred within the watershed since the 2007 Sanitary Survey Update, and will be considered in the 2012 Update, include the following, as indicated by the District:

1 to 2 fires have occurred within the watershed

Development activity has been reduced to very low levels since 2008, and there are no known new industries, construction or agricultural activities

The last mile of the Palmdale Ditch has been enclosed; works were completed in 2010

GAC has been added to the WTP; works completed in January 2009

PROJECT TASKS

Task A - Project Management and Review of Existing Information

Project management will include the following key activities:

- Project coordination
- Prepare a schedule to meet the requirements of both updating the source water sanitary survey and source water assessment plan
- Review a District mark-up of the 2007 Watershed Sanitary Survey Update and Source Water Assessment with all relevant changes clearly indicated, as well as the last 5 years of raw water quality data.
- Conduct an initial meeting with staff and DPH to discuss key tasks and issues to be addressed to complete the updates to meet state requirements. Agendas and a meeting summary will be prepared. Black & Veatch will provide an initial schedule and a list of data needed from the District. It is assumed that this information will be provided prior to or at the initial meeting. If needed, a brief site trip will be arranged as a part of the initial meeting.

- Following the District's review of the Draft Report conduct a technical review meeting with staff, prepare agenda, and distribute meeting summary.
- Monitor the project monthly with respect to budget and schedule.
- Prepare monthly progress summaries to be submitted with each invoice.

Task B - Delineation of Contribution Areas

Black & Veatch will verify the watershed boundaries developed in the 2007 survey, which is an approximately 90 square mile area, defined as tributary to Littlerock Reservoir, Palmdale Ditch, and Lake Palmdale. Key activities to complete this task are described below.

- Locate the watershed boundaries with GIS using information and graphics contained in the previous reports, National Hydrographic datasets, and Los Angeles County eGIS resources supplemented by a desktop assessment of data available from previous updates and the District.
- Develop a GIS basemap, which will locate the water intake and other key features in the watershed.

Task C- Inventory of Potential Contaminant Activities

An essential element of the drinking water source assessment and protection program is an inventory of Potential Contaminating Activities (PCAs). PCAs are any activities, facilities, or land uses that can be points of origin of significant contamination in the delineated source water protection areas. We will update the PCA list identified in the 2007 survey.

An inventory of PCAs will serve the following functions:

- Identify new activities that may pose a threat to the drinking water supply based on their potential for significant contamination of surface water.
- Provide information on the locations of PCAs that pose the greatest risks to the quality of the water supplies.

The inventory will include:

- Potential point sources (septic tanks, underground storage tanks, small commercial and industrial facilities, etc.).
- Potential line sources (sewer lines, gas/petroleum pipelines, highways carrying traffic that may haul hazardous chemicals, etc.).
- Potential area sources (agricultural lands, forest management lands, etc.)



The inventory will identify the source types and their locations within the watersheds and protection zones. While conducting the inventory, Black & Veatch will rely on activities identified in the previous sanitary surveys, but we will collect data on new activities that have occurred in the watersheds during the past five years, and add any additional facilities required as part of the SWAP. EPA's BASINS database will be used to develop screening-level source water vulnerability assessments with Esri's ArcGIS analysis and toolsets. The GIS-based evaluation will provide delineated assessment areas and the location of potential contaminants from known points of discharge, toxic release, and hazardous materials handling. We will perform the following key activities in identifying PCAs as part of the 2012 Update:

- Develop a contaminant source inventory. Using DPH forms, previous sanitary surveys, and data from the EPA's BASINS database develop an initial list of Potential Contaminating Activities (PCAs).
- Complete the forms using a the initial list of PCAs above, data made available by the District, and a review of RWQCB files to document changes in the watershed during the past five years. Extract and summarize information on any recent spills or incidents impacting water quality. Only key activities that would have a significant impact on surface water quality will be included.
- Locate each PCA on the watershed basemap developed in Task C.
- Summarize any changes in watershed activities during the past five-years.

Task D - Evaluate the Risk from Identified Potential Contaminant Activities and Conduct a Vulnerability Assessment

Following completion of the delineation and contaminant inventory steps, a determination will be made of the vulnerability/susceptibility of the water supply to contamination. A Vulnerability Assessment is an evaluation to determine the most significant threats to the quality of the water supply. The evaluation will take into account the characteristics of the source and site to determine the effectiveness of physical barriers to contamination. The vulnerability analysis will consider the type and proximity to water supplies of activities that could release contaminants. Key activities included in this task are described below.

- Review the Physical Barrier Effectiveness developed for the intake during 2007 and update.
- Use DPH forms to develop a matrix for the intake to assess the risk/vulnerability level. The risk from each activity/contaminant source will be assessed as well as the overall relative risk to each of the water supply sources.

Task E – Review and Evaluate Water Quality Data

Changes in raw water quality data since the 2007 survey update will be assessed. The focus will be on constituents that might impact compliance with the SWTR, the Interim Enhanced Surface Water Treatment Rule (ESWTR), the Long Term 2- ESWTR, and related future regulations. The review will also consider disinfection by-product (DBP) and DBP precursor data and impacts of the Stage 2-DBP Rule. Key activities for this task include:

- Review water quality data files for the past five years.
- Plot data to determine seasonal and annual trends and compare them to the trends identified in the 2007 survey update.
- Develop recommendations for log removal objectives for the treatment plant.

The following water quality data will be evaluated:

- Microbiological contaminants, including total coliform, fecal coliform, Giardia, and Cryptosporidium data, if available.
- Turbidity
- TOC
- DBPs and DBP precursors
- Inorganics
- Trace metals
- Other trace organics.

Task F – Regulatory Overview

Present and future regulations were reviewed as part of the 2007 survey. An update of this section will include new EPA and California Department of Public Health (CDPH) regulations promulgated since the 2007 Update, as well as new rules on the regulatory horizon.

The Safe Drinking Water Act requires EPA to publish a Contaminant Candidate List (CCL) every five years of contaminants that are not currently regulated but are known or anticipated to occur in public water systems. CCLs are used to set regulatory, research, and occurrence-investigation priorities within EPA. Contaminants of emerging concern contained in CCL 3 (EPA, 2009) include 116 microbial pathogens, inorganic compounds, synthetic organic chemicals, hormones, and pharmaceuticals. Current regulatory schedules call for final determinations regarding the need to regulate at least five of the contaminants listed in the CCL 3 by 2013, which may include one or more of the microbial pathogens listed.

Contaminants on the horizon for regulatory action by EPA include fluoride, perchlorate, hexavalent chromium (Cr6+), carcinogenic volatile organic



compounds (as a class), and nitrosamines (as a class). New and revised Drinking water rules that are likely include the Third Unregulated Contaminant Monitoring Rule (UCMR3), Revised Total Coliform Rule (RTCR), Long-Term Revisions to the Lead and Copper Rule (LT-LCR), and Consumer Confidence Reports (CCRs). The California Office of Environmental Health Hazard Assessment (OEHHA) established a non-enforceable Public Health Goal (PHG) for hexavalent chromium of 0.02 µg/L, which will contribute to development of a maximum contaminant level by CDPH. Potential generalized approaches for regulatory compliance will also be discussed.

Task G – Management Activities Review

Black & Veatch will review data provided by the District (in the mark-up of the 2007 Update described in Task A) on management activities undertaken over the past five years. The report will also recommend and describe control strategies that can be taken by the District to protect the source of supply.

Project Deliverables

The 2012 Sanitary Survey Update report will document changes in the watershed during the past five years and will include sections from the 2007 report by reference where appropriate. Black & Veatch will provide the following deliverables:

- Documentation of the source water assessment process, with required forms included as appendices

- GIS-derived figures, based on Los Angeles County datasets, for the intake and watershed showing the zones of protection and PCAs, with copies included as appendices

- Three hard copies of the draft report to District staff and one hard copy of the draft report to DPH for review, comments to be incorporated into the final report

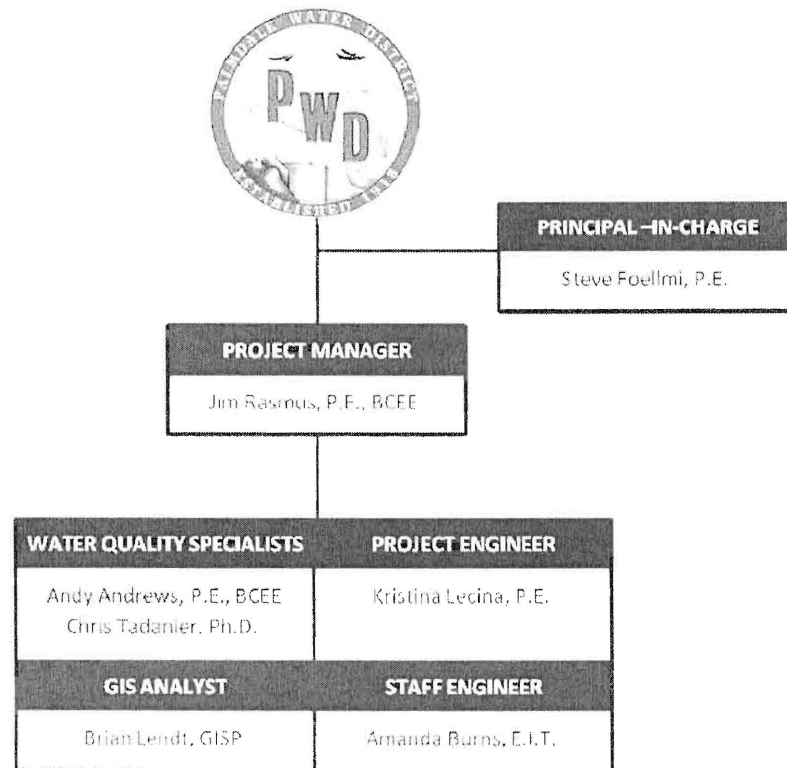
- Six hard copies and one electronic copy of the final report to the District and two hard copies of the final report to DPH

- A brief executive summary that can be used in the District's Consumer Confidence Reports for distribution to the public for education and outreach purposes, as well as an electronic version for web posting.

Project Team

The Black & Veatch project team, displayed in the chart below, includes highly qualified and experienced professionals who are committed to achieving the objectives and goals of this project. As the project management team, Steve Foellmi and Jim Rasmus will provide regional and engineering insight as well as overall project coordination. Water quality specialists, Andy Andrews and Chris Tadanier, will provide technical expertise on water quality issues present in the

Littlerock Reservoir and Palmdale Lake watershed. Kristina Lecina, as project engineer, will be responsible for oversight and coordination of the technical aspects of the project, and overall production of the draft and final reports. Amanda Burns and Brian Lendt will also provide project support as staff engineer and GIS analyst, respectively. Brief resumes describing relevant project experience are included in Appendix A for key team members.



Schedule

The following summarizes key dates for this effort. This schedule could be adjusted at the request of the District to meet any specific dates required.

Authorization of Contract – Late August 2012

Kick-off Meeting – Late September 2012

Draft 2012 Sanitary Survey Update – October 15, 2012

Client Comments Submitted – November 1, 2012

Final 2012 Sanitary Survey Update Report – October 15, 2012

Approval at District Board Meeting – November/December 2012

Fee

	Principal	Project Manager	WQ Specialist	Project Engineer	Staff Engineer	GIS Staff	Admin Staff	Total Hours	Expenses	Total Fee
Task										
Project Management and Review of Existing Information	0	12	2	8	4	0	4	30		
Task A Fee	\$0	\$2,700	\$400	\$1,200	\$520	\$0	\$320		\$263	\$5,403
Delineation of Contribution Areas	0	2	0	2	8	16	0	28		
Task B Fee	\$0	\$450	\$0	\$300	\$1,040	\$1,760	\$0		\$245	\$3,795
Inventory of Potential Contaminating Activities	0	2	0	8	40	0	0	50		
Task C Fee	\$0	\$450	\$0	\$1,200	\$5,200	\$0	\$0		\$438	\$7,288
Evaluate the Risk from Identified PCAs and Conduct Vulnerability Assessment	0	2	2	12	16	0	0	32		
Task D Fee	\$0	\$450	\$400	\$1,800	\$2,080	\$0	\$0		\$280	\$5,010
Review and Evaluate Water Quality Data	0	2	4	12	20	0	0	38		
Task E Fee	\$0	\$450	\$800	\$1,800	\$2,600	\$0	\$0		\$333	\$5,983
Regulatory Overview	2	4	8	4	4	0	0	22		
Task F Fee	\$550	\$900	\$1,600	\$600	\$520	\$0	\$0		\$193	\$4,363
Management Activities Review	0	4	0	8	6	0	0	18		
Task G Fee	\$0	\$900	\$0	\$1,200	\$780	\$0	\$0		\$158	\$3,038
Prepare Report	4	12	4	18	24	0	8	70		
Task H Fee	\$1,100	\$2,700	\$800	\$2,700	\$3,120	\$0	\$640		\$613	\$11,673
Total Hours	6	40	20	72	122	16	12	288	\$2,520	\$46,550

Appendix A

Appendix A includes brief resumes listing relevant project experience for select team members.

JAMES B. RASMUS, P.E., BCEE

Jim brings over 20 years of experience in planning, design and construction of a wide variety of water resources projects. One particular focus of Mr. Rasmus' is in the planning, design and, construction of innovative water supply and water reuse projects. These projects have drawn upon Jim's background in a wide range of experience with water quality, hydraulics, and sanitary engineering projects. Mr. Rasmus' innovative ideas and leadership have led his clients to numerous awards for innovations including: APWA's *Best Environmental Project Award*; APWA's *Technical Innovation Award*; Consulting Engineers and Land Surveyors of California's *Honor Award for Engineering Excellence*; APWA's *Project of the Year Award for Environmental Projects*; and the Construction Management Association of America's *Public Infrastructure Project of the Year*. A selection of Mr. Rasmus' representative experience is highlighted below:

PROJECT EXPERIENCE

Chino Basin Dry-Year Yield Program Expansion Project Development Report
[Inland Empire, CA]

Technical Advisor. Performed technical reviews of the report focusing on facilities implementation, operations, and cost opinions. The Chino Basin consists of approximately 235 square miles of the upper Santa Ana River watershed is one of the largest groundwater basins in Southern California. The report determined the facilities needed to store up to 150,000 acre-feet and to recover up to 50,000 acre-feet per year of stored groundwater for dry-year use, in-lieu of imported water. Primary sources of recharge water include recycled water and storm water. Facilities include new production wells, aquifer storage and recovery wells or injection wells, wellhead treatment systems, and conveyance system improvements.

Hells Water District | El Monte Valley Groundwater Recharge Project,
Lakeside, CA

Senior Project Engineer. Served as a senior project engineer for the conceptual design for the El Monte Valley Groundwater Recharge Project. This project will ultimately recharge up to 5,000 acre-feet per year of recycled water treated with reverse osmosis and advanced oxidation processes into the El Monte Groundwater Basin. This water will be blended, extracted, and treated for drinking water supply. Studies included development of site-specific groundwater models, a groundwater pilot study with extraction wells and spreading basins, development of a groundwater management plan, and coordination with regional stakeholders and regulatory agencies. Development of State and Federal funding assistance packages were also included to support this unique and important regional water supply project.

Los Angeles | Echo Park Lake Recycled Restoration, Los Angeles, CA

PROJECT MANAGER

Specialization:
Watershed, Air,
Water Reuse

Office Location
San Diego, California

Education
MS, Civil Engineering, San
Diego State University,
1993
BS, Civil Engineering, San
Diego State University,
1986

Professional Registration
PE – 1993, AZ, 27032
PE – 1990, CA, 46127

Professional Affiliations
American Academy of
Environmental Engineers
(AAEE)
American Society of Civil
Engineers (ASCE)
California Water
Environment Association
(CWEA)
Chi Epsilon Civil
Engineering Honor Society
Water Environment
Federation (WEF)

Special Committees
Member of the State of
California's Clean Beach
Task Force 2007 – 2010

Year Career Started
1990

Year Started with B&V
2007

Language Capabilities
English

Engineering Manager. Served as Engineering Manager for preliminary design of this \$65M lake rehabilitation project within an urbanized watershed near downtown Los Angeles. A key goal of the rehabilitation efforts was to reduce the amount of potable water used to maintain the Lake's level and water quality. This evaluation considered the use of recycled water, water harvesting from dry season runoff, and continued use of potable water as make-up water in the Lake and the adjacent 16 acre park.

Southern Nevada Regional Water Recycling Study; Las Vegas, NV

Engineering Task Leader. Served as task lead for key tasks including the investigation of recycled water practices in comparative locales throughout the world. This study, conducted on behalf of the Southern Nevada Water Authority and the Clean Water Coalition, assessed water supply needs in Southern Nevada; considered current recycled water practices; reviewed recycled water practices in other parts of the world; and then compared these practices to develop a set of guiding principles for recycled water. Current estimates show that nearly 30,000 acre-feet per year are directly recycled and nearly 190,000 acre-feet per year are indirectly recycled. The study was developed with stakeholder input from water retailers, recycled water producers, and elected officials throughout the Valley. The guiding principles will be utilized as a framework expanding both direct and indirect recycling for years to come.

San Diego Zoological Society | San Diego Wild Animal Park Water Resources Master Plan; Escondido, CA

Project Manager. Responsible for the San Diego Zoological Society sponsored study of water, storm water, recycled water, groundwater, and wastewater treatment facilities at the San Diego Wild Animal Park. The park is a 1,800-acre wildlife preserve that allows visitors to view herds of exotic animals as they might be seen in their native lands. The development of the Master Plan involved conducting workshops with all key stakeholders at the Park. With this stakeholder input and a vision of the future regulatory environment, a prioritized listing of projects complete with concepts, and cost estimates were developed. A critical element of the Master Plan involved the evaluation of separating exhibit waste streams that were co-mingled with surface runoff to the degree practical. Runoff from animal waste facilities that could not be separated is treated to tertiary standards for beneficial reuse as irrigation.

City of Santa Monica | Measure V – Program Management Services; Santa Monica, CA

Engineering Manager. Responsible for assisting the City with the evaluation, prioritization and the development of an implementation schedule for up to \$30M in water quality improvements throughout Santa Monica. Also evaluated and included in the 5 -year plan is a deep infiltration pilot project, regional trash BMPs concepts, and rebates from the existing City's Downspout (DS) Redirect Program, Rain Barrel Program Cistern Program. Conceptual designs and cost opinions were developed for key facilities.

Kristina L. Lecina, P.E.

Kristina has over ten years of professional experience as a Water Resources Engineer. She has gained experience in the hydrologic and hydraulic assessment of watersheds, water resources planning, stormwater collection, dambreak evaluations, the design of discharge measurement structures and the preparation of hydraulic profiles for treatment plants. She also has experience in modeling pipeline hydraulics including transients, networks, collection systems and open channel systems such as canals and rivers.

PROJECT EXPERIENCE

Calaveras County Water District and Stockton East Water District | Prepared Stanislaus River and Calaveras River Watershed Sanitary Surveys, Central Valley, CA

Engineer. Surveyed and researched water supply sources in the watersheds and analyzed available water quality data. Identified possible contaminating activities in the watersheds. Prepared reports for water suppliers.

United States Bureau of Reclamation | Colorado River Basin Water Supply and Demand Study – Phase 4, Phoenix, AZ

Engineer. Worked as part of the consultant team to pull together and organize publicly submitted options addressing future water supply and demand imbalances in the Colorado River Basin. Created an MS Access Database to store and analyze all information received. Participated in the characterization of submitted options as to their potential effectiveness. Characterized options addressed not only opportunities for increasing supply, but also for reducing demand and more effectively managing supplies through changes in system operations.

Indio Water Authority | Indio 2010 Urban Water Management Plan; Indio, CA

Engineer. Prepared the 2010 Urban Water Management Plan (UWMP) for Indio Water Authority which included the development of long-term water demand projections. Demand-supply analyses considering the District's full portfolio of water resources were performed under various hydrologic conditions.

City of Indio | Phase 2-Integrated Water Resources Development Plan; Indio, CA

Engineer. Prepared an assessment of water supply management opportunities for the City of Indio in order to diversify the City's water resources portfolio. Assessed potential gains resulting from supply alternatives and screened alternatives to prioritize future efforts for the City.

Project Engineer. Prepared Conservation Master Plan for the City of Indio. Efforts included the preparation of a Water Evaluation and Planning System (WEAP) model of the City of Indio in order to assess future water demands.

WATER RESOURCE ENGINEER

Specialization:
Water Resources
and Water Resource
Planning

Office Location
Phoenix, AZ

Education

MS, Biological &
Agricultural Engineering,
University of Minnesota,
2001

BS, Biosystems
Engineering, University of
Nebraska, 1999

BS, Biology, University of
Nebraska, 1995

Professional Registry
PE – 2008, KS, 20359

Year Career Started
2001

Year Started with B&V
2001

Model development included the analyses of billing data by user type to ascertain usage within customer classifications. Water savings from existing conservation measures, as well as Demand Management Measures, as established by the California Urban Water Conservation Council (CUWCC) were also estimated. Additional conservation measures were proposed and water savings from those measures were estimated.

Johnson County | Cedar Creek Watershed Study, Johnson County, KS

Engineer. Developed the hydrology model for this watershed in HEC-1 to determine both current and future peak flows for future watershed management. Developed portions of the hydraulics model for the Cedar Creek watershed using HEC-RAS. The information will be used to identify flood elevations within the watershed.

Calleguas Municipal Water District | Calleguas 2010 Urban Water Management Plan; Ventura, CA

Engineer. Prepared the 2010 Urban Water Management Plan (UWMP) for Calleguas Municipal Water District. This document included the development of long-term water demand projections. A demand-supply analyses was performed under average and drought conditions considering the District's full portfolio of water resources. The reliability of the District's various water resources was also evaluated.

Carson City | Integrated Water Resources Management Plan; Carson City, NV

Engineer. Prepared an assessment of available water resources for Carson City to identify shortfall scenarios. Identified potential opportunities for improving supply and assessed potential gains resulting from implementation of supply opportunities.

Southern Nevada Water Authority | Rationale for Proposed Revisions to Fluoride Water Quality Standards for Muddy River; Moapa Valley, NV

Engineer. Summarized available data concerning soils, agricultural production, land-use, Muddy River flow and water quality data in the context of building a case for changing the fluoride water quality objective for the Muddy River.

Indio Water Authority | Phase 1-White Paper for the Development of an Integrated Water Resources Management Plan; Coachella Valley, CA

Engineer. Reviewed available reports by agencies throughout the Valley and as well, reports on the groundwater aquifer, SWP deliveries, Colorado River Water deliveries and others. Prepared a White Paper to provide a basis for future assessments of technologies and management approaches to better manage water resources in the Valley.



Steve Foellmi, P.E.

Mr. Foellmi is a Vice President and Senior Project Manager for Black & Veatch Corporation. He has served as design engineer, project engineer, and project manager almost exclusively on water supply, treatment, and distribution projects, including both study and design assignments.

Mr. Foellmi has participated in the study and design of more than 20 water treatment plant projects including both new facilities, and expansion of existing facilities. The water treatment plant projects to which Mr. Foellmi has been assigned have included feasibility studies and final designs, groundwater and surface water supplies, pressure filters, gravity filters including deep bed filter designs, conventional and inclined plate sedimentation, paddle wheel and vertical turbine flocculation, chemical handling and storage facilities, alternative filter wash and wash water handling systems, disinfection, and water storage facilities. Mr. Foellmi has significant experience in the design of ozone facilities. Mr. Foellmi was recently awarded a U.S. Patent for an innovative ozone side stream injection design that was used on the Vancouver ozone disinfection project.

PROJECT EXPERIENCE

Palmdale Water District | Water Treatment Plant Optimization Study; Palmdale, CA

Project Manager. Directed a water treatment plant optimization study to identify improvements for the plant to meet future regulations and reliably operate at its design capacity of 28 mgd.

Metropolitan Water District of Southern California | CRA Hydraulic and Power Analysis Model; Mojave Desert, CA

Project Manager. Developed a comprehensive computer model of the hydraulic and electric power supply components of the Colorado River Aqueduct (CRA). Incorporated into this model are the three planned Metropolitan conjunctive use projects: Hayfield, Chuckwalla, and Cadiz. The custom modeling package estimates hydraulic and power requirements for the existing and proposed CRA facilities based on user defined operating scenarios, historical data, and available reference information.

Elsinore Valley Municipal Water District | Liminological Study; Lake Elsinore, CA

Project Manager. Developed a monitoring program to evaluate the physical, chemical, and water quality data criteria associated with Canyon Lake for the purpose of establishing trends and anticipating water treatment problems.

Chico Lake Water Agency | Earl Schmidt Filtration Plant Improvements; Santa Clarita, CA

Project Manager. Directing preliminary and final design of facilities expansion (from 28 mgd to 56 mgd) and improvements to meet proposed and future

VICE PRESIDENT / SENIOR PROJECT MANAGER

Specialization:
Extensive experience in Water Supply, Treatment, and Distribution Projects throughout North America and has successfully managed several of the largest and most complex Regional & State Projects.

Office Location:
Irvine, CA

Education:
MS, Civil Engineering,
University of Missouri
BS, Civil Engineering,
University of Wisconsin,
1972

Professional Registration:
PE – 1986, AZ, 20212
PE – 1993, CA, 50141
PE – 1984, CO, 22133
PE – 1994, MI, 6201039526
PE – 1976, WI, 15897-6

Professional Associations:
American Society of Civil
Engineers
American Water Works
Association

Year Career Started:
1981

Year Started with B&V:
1981

regulations. Project components include a new influent pumping station, new ozone facilities, new contact clarification basins, and improvements to filtration and washwater recovery systems.

Kern Delta Water District | Kern Delta Water Banking Program; Bakersfield, CA

Project Manager. Performed preliminary studies and design associated with the conjunctive use project. The project involves storage of excess wet year flows from Metropolitan Water District in the existing Kern Delta groundwater basin and later return of the stored water to Metropolitan, when needed. The project has a capacity of about 200 cfs and includes spreading basins, conveyance pipelines and canals, wells, and associated facilities. Directed the preparation of the EIR document for this project.

Metropolitan Water District of Southern California | Feasibility Study for the Chuckwalla Groundwater Basin; Mojave Desert, CA

Project Manager. Directing the studies and preliminary design for a conjunctive use project on the CRA. The project included a turnout on the aqueduct, spreading basins, groundwater wells, collection pipelines, and associated facilities. A pilot testing spreading basin facility was designed and constructed as part of this project.

City of Redlands | Water Treatment Improvements; Redlands, CA

Project Manager. Directing a series of projects designed to allow the City of Redlands to continue to provide a safe, reliable water supply. Projects include development of treatment process modifications to the Tate Water Treatment Plant, alternative operational procedures to increase hydraulic capacity at the Hinckley Water Treatment Plant, and a blending plan for the Highland Avenue Water Complex and two adjacent wells. As part of the Emergency Response Plan, several testing protocols have been established for DHS review and approval.

Cucamonga County Water District | Lloyd W. Michael Water Treatment Plant Audit; Rancho Cucamonga, CA

Project Manager. Directed an audit of existing facilities at the Lloyd W. Michael Water Treatment Plant. Directed preparation of a report recommending modifications to allow the plant to operate at 30 mgd. Participated in meeting with DHS to receive regulatory approvals.

City of Anaheim | Lenain Filtration Plant Modifications; Anaheim, CA

Project Manager. Directed preliminary and final design and construct phase services for improvements to the existing 15 mgd water treatment plant. The project work included a new conventional water treatment plant with inclined plate settlers, ozonation for primary disinfection and deep bed filtration using monomedium anthracite. The project included DOHS and EPA regulatory compliance. An important aspect was the extremely constrained site.



Howard O. (Andy) Andrews, P.E., BCEE

Howard O. (Andy) Andrews is a Senior Water Resources Engineer with Black & Veatch. He has over 35 years' experience, primarily in water quality and stormwater management. His experience includes watershed studies, monitoring and modeling of streams and reservoirs, mixing zone studies, NPDES permit review, and TMDL studies. Mr. Andrews serves on the Water Environment Federation (WEF) program committee for Surface Water Quality and Ecology. He is a Board Certified Environmental Engineer with the American Academy of Environmental Engineers.

His stormwater experience includes both municipal separate stormwater and combined sewer systems, including projects related to the NPDES stormwater program.

PROJECT EXPERIENCE

City of Los Angeles | Water Quality Modeling of Echo Park Lake; Los Angeles, CA

Water Resources Engineer. Conducted P8 modeling of historic Echo Park Lake for the purpose of evaluating the performance of stormwater best management practices, including vortex separation and constructed wetlands on water quality in the lake.

Clean Water Coalition of Las Vegas | Water Quality Model of Lake Mohave; Las Vegas, NV

Technical Project Manager. Supervised development of the CE-QUAL-W2 hydrodynamic and water quality model of Lake Mohave, Nevada, which is on the Colorado River below Hoover Dam. The model was validated using an extensive water quality database developed by the USBR.

Santa Ana Project Authority | Lake Elsinore Clean Lakes Study; Lake Elsinore, CA

Project Manager. Managed diagnostic/feasibility study, including year-long monitoring program and hydrologic and water quality modeling of lake.

Orange Water and Sanitation District | Wasteload Allocation Study; Chapel Hill, NC

Project Manager. Used QUAL2E computer model to perform wasteload allocation study of water quality in Morgan Creek downstream of a wastewater treatment plant.

City of St. Joseph | River Modeling to Support CSO Long Term Control Plan; St. Joseph, MO

Project Engineer. Update of the 2002 Plan, including revised QUAL2K modeling of the Missouri River to assess impact of City's CSOs on river water quality. Utilized 2007 water quality sampling data to develop event mean concentrations for the CSOs.

WATER QUALITY SPECIALIST

Specialization:
Watershed Studies
Water Resources
Engineering

Office Location:
Kansas City, MO

Education:
MS, Environmental Engineering, University of Texas-Austin, 1975
MS, Engineering Administration, University of Missouri-Rolla, 1970
BS, Civil Engineering, University of Missouri-Rolla, 1969

Professional Registration:
PE – 1977, TX, 41761

Professional Associations:
Water Environmental Federation

Year Career Started:
1972

Year Started with B&V:
1977

City of Olathe | Wet-Weather Water Quality Impacts Study of Cedar Creek; Olathe, KS

Project Engineer. Conducted monitoring and QUAL2E modeling of Cedar Creek to determine effect of wet-weather overflows from the City's WWTP on water quality of the creek.

City of Kansas City | Stormwater Master Plans; Kansas City, MO

Project Manager. Managed stormwater studies for three watersheds in the City. Project included developing computer software to allow master planning to be performed utilizing the City's Geographic Information System (GIS).

City of Portland | Ramsey Lake CSO Treatment System; Portland, OR

Technical Advisor. Developed an estimate of water quality associated with combined sewer overflow (CSO) that would be treated using a constructed wetlands system.

City of Grand Rapids | Combined Sewer Overflow Study; Grand Rapids, MI

Project Manager. Managed portion of study that used the Stormwater Management Model (SWMM) to develop pollutant loadings and a sewer model to assess water quality impacts.

Kyle Family Trust | Flood Study of Indian Creek; Overland Park, KS

Resources Engineer. Analyzed flood limits, using water surface profile simulation model (HEC 2). Floodprone areas were defined and channel improvements were evaluated with the model.

City of St. Peters | Wasteload Allocation Study of Spencer Creek; St. Peters, MO

Project Engineer. Conducted a wasteload allocation study related to the City's WWTP discharge into Spencer Creek. The study involved using the QUAL2K water quality model to determine the allowable WWTP organic loadings required to meet the dissolved oxygen water quality criterion for the creek.

City of Cedar Falls | Ammonia Limits Study; Cedar Falls, IA

Project Manager. Managed a study to review a wasteload allocation study (WLA) performed by the Iowa Department of Natural Resources. The WLA set seasonal effluent limits on ammonia for the City's wastewater treatment plant.

City of Raleigh & Wake County | Watershed Study; Raleigh, NC

Project Manager. Managed watershed protection studies for Honeycutt and Lower Barton's Creek watersheds.

Christopher J. Tadanier, Ph.D.

Dr. Tadanier is a member of the Water Technologies Group within Black & Veatch, and specializes in source water quality evaluation, water treatment processes, and environmental chemistry. Recent research includes study of abiotic and biotic processes responsible for nutrient and contaminant sequestration and mobilization in natural and engineered aquatic environments. Particular emphasis of these studies was related to mobilization of arsenic from mineral surfaces by competitive adsorption of ions such as silica and phosphate that may be present in natural or recharged waters. Previous relevant experience includes characterization of organic matter in natural waters, with particular emphasis on disinfection byproduct formation kinetics and treatability.

Dr. Tadanier has extensive experience in selection of drinking water treatment processes appropriate for a wide range of source waters, as well as conceptual design and cost estimation of a variety of treatment processes. He has also facilitated numerous decision-oriented projects using the Kepner-Tregoe® structured decision analysis process.

PROJECT EXPERIENCE

Inland Empire Utilities Agency, Chino, California and Metropolitan Water District of Southern California | Dry-Year Yield Program Expansion Project; Los Angeles, CA

Water Quality and Process Specialist. Evaluation of treatment technologies for inorganic (arsenic, perchlorate, chromium, and nitrate) and organic (TCE and PCE) contaminants in native groundwaters.

Helix Water District | El Monte Valley Recharge Project; San Diego, CA

Process Specialist. Evaluation of pretreatment processes for an aquifer storage and recovery project feasibility study/master plan to comply with regulatory requirements of Title 22 of the California Code of Regulations.

Northern Colorado Water Conservancy District | Windy Gap FIRMING Project EIS Support; Berthoud, CO

Water Quality and Process Specialist. Analysis of in-stream nutrient loading from historical water quality data and WWTP operation records. Evaluation of potential nutrient offsets available to Lake Granby, CO through mitigation of non-point natural and agricultural sources, as well as point-sources associated with wastewater discharges to the Fraser River and Willow Creek watersheds.

Carson City | Evaluation and Mitigation of Water Quality and Distribution Issues; Carson City, NV

Process Specialist. Source water quality and treatability review for arsenic and uranium compliance for the City's drinking water system. Arsenic and uranium treatment process selection, planning level cost estimation, and facilities

WATER QUALITY SPECIALIST

Specialization:
Source Water Quality, Water Treatment, and Environmental Chemistry

Office Location:
Denver, Colorado

Education:
PhD, Civil and Environmental Engineering, Virginia Tech, 1998
MS, Mechanical Engineering, University of Illinois at Urbana-Champaign, 1985
BS, Mechanical Engineering, University of Illinois at Urbana-Champaign, 1983

Specialized Training:
Kepner-Tregoe: Problem Solving and Decision Making Workshop, 2006

Professional Associations:
American Water Works Association
Rocky Mountain Section American Water Works Association, Water Treatment Committee

Year Career Started:
1986

Year Started with B&V:
2005

conceptual design. Treatment process residuals disposal regulatory compliance plan.

City of Boulder | Integrated Evaluation of Boulder Reservoir Water Treatment Facility Source Water Protection and Treatment Improvements Study; Boulder, CO

Process Specialist. Development of a multi-barrier water delivery approach for the Boulder Reservoir Water Treatment Facility. Water quality review and treatability evaluation. Source water protection and best management practices evaluation. Process selection and planning level cost estimation. Kepner-Tregoe® structured decision analysis facilitation and modeling.

Chippewa Cree Construction Corporation/AE2S | Rocky Boy's North Central Montana Water Supply Project; Great Falls, MT

Water Quality and Process Specialist, Water Treatment Process Lead.

Performed Source water evaluation and facilitated process selection for a 33 mgd greenfield surface water treatment plant. Evaluated DBP formation in the system's extended regional distribution system, and facilitated regulatory acceptance of disinfection strategy.

Calleguas Municipal Water District | 2006 Water Master Plan; Thousand Oaks, CA

Process Specialist. Developed rehabilitation and replacement schedule and cost estimates for infrastructure elements including distribution piping, pump stations, flow control equipment, hydroelectric generating facilities, storage reservoirs, and water treatment plants as part of capital improvements plan.

Aurora Water | Integrated Water Supply Operating Strategies; Aurora, CO

Process Specialist. Evaluation of various operating strategies utilizing source waters with differing water quality over a range of blend ratios. A plan was developed to achieve blended water quality targets, while minimizing operating costs and maximizing water availability under drought conditions.

City of Mesa | Disinfection Byproduct Formation Modeling; Mesa, AZ

Water Quality and Treatment Specialist. Developed a process model for the City's 72 mgd CAP Water Treatment Plant and implemented it in USEPA WTP modeling software. Modeled treatment facility performance for a range of CAP and SRP source water blends, and evaluated DBP formation across the distribution system.

Indio Water Authority | Surface Water Treatment Plant Conceptual Design; Indio, CA

Decision Analysis Facilitator. Provided structured decision-analysis support in conjunction with treatment process selection for the conceptual design of a 10 mgd surface water treatment facility. Also provided water quality and treatment process evaluations and conceptual design.

Amanda Burns, E.I.T.

Amanda Burns is a civil engineer with experience in water supply and reuse planning, low impact development design, urban stormwater management, and water and wastewater master planning. Early in her career, she was selected to participate in the B&V Water Leadership Internship Program. This program provided engineering students the opportunity to work alongside professional engineers and participate in professional development workshops. Recent roles include technical writing and water reuse master planning for the City of San Diego Recycled Water Study. This study evaluates options for expansion of the City's non-potable system, as well as substantial plans for indirect potable reuse.

PROJECT EXPERIENCE

Indio Water Authority Urban Water Management Plan | Indio, CA

Staff Engineer. As staff engineer, provided support for water resources engineering team in preparing the 2010 UWMP. The purpose of this UMWP is to promote conservation and ensure efficient use of urban water supplies on a local level. Key roles include preparing detailed review and QA/QC for Indio Water Authority 2010 UWMP.

Cucamonga Wastewater Master Plan 2010 | Rancho Cucamonga, CA

Staff Engineer. As staff engineer, performed various support roles for this comprehensive wastewater master plan. The master plan included assessment of the existing sewer system as well as its capacity to handle future flows. Key roles include reviewing wastewater master plan prepared by the Cucamonga Valley Water District and composing the Executive Summary.

City of San Diego Recycled Water Study | San Diego, CA

Staff Engineer. The Recycled Water Study is nationally significant in the field of water recycling and reclamation. The study included an evaluation of non-potable and indirect potable reuse opportunities including reservoir and groundwater augmentation. Key roles included preparing the Final Report, Executive Summary, and Technical Memoranda for the Study as well as providing updated financial analyses.

WR-34 Hydroelectric Power Generation Facility, Rancho California Water District | Temecula, CA

Staff Engineer. As staff engineer, performed flow analysis to determine if a proposed flow-release strategy will impact Santa Margarita River flows downstream of the Hydroelectric Facility. Key roles included evaluating USGS data for the periods before, during, and after the flow simulation at various points downstream on the Santa Margarita River, and preparing a technical memorandum explaining conclusions.

WATER RESOURCES

Specialization
Water Supply and
Water Reuse Planning
Urban Stormwater
Management

Office Location
San Marcos, CA

Education
University of Illinois
Urbana-Champaign
BSE, Civil and
Environmental
Engineering, 2011

Professional Registration
EIT – 2011

Summer internships:
2009
2010

Year Started with B&V
2011

BRIAN LENDT, GISP

Mr. Lendt is a GIS (Geographic Information Systems) Implementation Consultant with the Black & Veatch GIS Department. He specializes in areas that relate to water, wastewater, and stormwater hydraulic modeling and master planning; condition assessment; asset management; spatial analysis and visualization. His experience includes the development of various processes that relate to hydraulic model preparation, GIS-hydraulic model integration, and spatial analysis including demand allocation, fire flow analysis, capital improvement planning, population forecasting, geometric network development, route analysis, site selection and utilization of GIS technologies to determine the survivability and performance of water mains for system-wide pipeline condition assessment programs. He has also coordinated the database development, hydraulic modeling, mapping, and QA/QC for several FEMA region 5 and 7 counties as part of FEMA's DFIRM map modernization program.

PROJECT EXPERIENCE

Recycled Water Program User Map Update, Castaic Lake Water Agency, CA

GIS Manager. Coordinated efforts to develop new recycled water customer maps and database based on the latest information provided by four water purveyors. Researched, coordinated and verified the location of geocoded customers. Developed a unique ID system to cartographically represent customers that were clustered on customer maps.

Water Resources Plan, Petaluma, CA

GIS Analyst. Created a TIN (Triangulated Irregular Network) from topographic data to determine node elevations for use in hydraulic modeling. Updated meter sales data and exhibits. Aided in the development of a hydrologic model and re-projected data.

Comprehensive Water Facilities Planning and Design, City of Glendale, AZ

Modeling/GIS Analyst. Developed a 2000+ hydraulic model from scratch using WaterCAD. Performed QA/QC checks of the model network to ensure accuracy and consistency. Used GIS techniques to address match over 60,000 water meters for demand allocation purposes.

Metro Water Reclamation District Northern Treatment Utility Plan, Denver, CO

GIS Analyst. Supported efforts in developing a Wastewater Utility Plan for a new Northern Treatment Plant the NTP Interceptor, and an Effluent Pump Back System. Consolidate GIS data from multiple stakeholders in to a common spatial database for analysis and mapping purposes. Conducted population forecasting analysis to determine future population for areas to be served by the new treatment plant.

GIS ANALYST

*Specializations:
GIS Analysis,
Development, and
Implementation for
Engineering and Facility
Analysis, and
Mapping for
Regulatory and
Planning Purposes*

*Software: ArcView
Survey123, AutoCAD
3D, InRoads, Auto
InfraWorks, and
MicroStation*

*Office Location:
Kansas City, MO*

*Education:
MS, GISciences,
Northwest Missouri
State University,
Expected 2012*

*BS, Geography,
Northwest Missouri
State University, 1999*

*Certificate in
GISciences, Northwest
Missouri State
University, 2005*

*Professional Registration:
GISP (Certified GIS
Professional by the GIS
Certification Institute)*

*Professional Associations:
Association of
American Geographers
(GIS Specialization),*

*American Water
Works Association*

*Year Career Started:
2001*

*Year Started with B&V:
2000, 2011*



CALIFORNIA-NEVADA SECTION

American Water Works Association

10574 Acacia Street, Suite D6
Rancho Cucamonga, CA 91730

AGENDA ITEM NO. 7.11.1

NON PROFIT
ORGANIZATION
US POSTAGE
PAID
PERMIT NO. 41
SAN DIMAS, CA



16*3

***ALL FOR AADC 932

DENNIS LAMOREAUX
PALMDALE WATER DISTRICT
2029 E AVENUE Q
PALMDALE CA 93550-4050

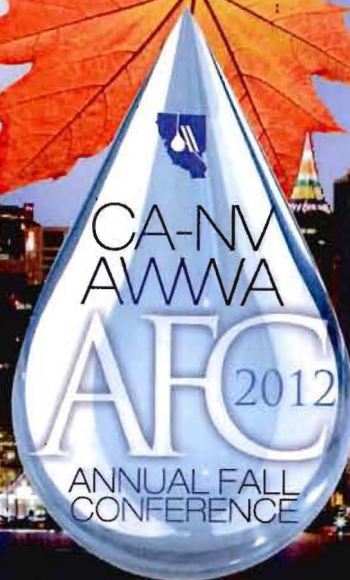
RECEIVED

OCT 12 2012



CALIFORNIA-NEVADA SECTION
American Water Works Association

THE 21ST CENTURY WATER UTILITY: A PROGRESS REPORT



Nearly 200 Technical Presentations
Over 100 Exhibitors
Earn up to 18 Contact Hours

FALL CONFERENCE 2012

OCTOBER 8TH - OCTOBER 11TH

San Diego



OCTOBER 8-11, 2012
Town & Country Hotel &
Conference Center - San Diego, CA



OCCUPATION CODES (please check one): ☐ WTR Water Utility ☐ CTR Contractor ☐ CNS Consultant ☐ MFG Manufacturer ☐ REF Manufacturer's Representative

☐ STU Student ☐ OPR Water Operator ☐ DIS Distributor ☐ EDU Educator ☐ RES Research Laboratory ☐ FED Federal Government ☐ STA State Government

☐ I am a speaker at this conference. Date _____ Time _____

Name (how you would like it to appear on your badge) _____

Title _____ Company _____

Address _____ City _____ State _____ Zip _____

Phone _____ Cell _____ Fax _____

Attendee Email _____ AWWA Member # _____

Type of Membership (check one) ☐ Individual ☐ Organization ☐ Operator/Admin. ☐ Utility ☐ I am a CWEA Member (same rate as CA-NV AWWA Member)

Complimentary Spouse/Guest (If attending) *Household members only. Does not include Water Industry Personnel. _____

Member Registration Fees

	EARLY On or Before 8/20/12	PRE On or Before 9/7/12	ONSITE On or After 9/8/12	Subtotals
<input type="checkbox"/> FULL REGISTRATION: Includes Keynote Luncheon & Exhibitor Hosted Lunch and Closing Session Lunch	\$435	\$485	\$535	\$ _____
<input type="checkbox"/> Tuesday One-Day: Includes Keynote Luncheon & Exhibit Hall Entrance	\$215	\$265	\$315	\$ _____
<input type="checkbox"/> Wednesday One-Day: Includes Exhibitor Hosted Lunch & Exhibit Hall Entrance	\$215	\$265	\$315	\$ _____
<input type="checkbox"/> EDUCATION PACKAGE #1 Tuesday/Wednesday Includes Technical Sessions & Exhibit Hall Entrance	\$215 No Meals	\$265 No Meals	\$315 No Meals	\$ _____
<input type="checkbox"/> EDUCATION PACKAGE #2 Wednesday/Thursday Includes Technical Sessions & Exhibit Hall Entrance	\$215 Thurs. Lunch Only	\$265 Thurs. Lunch Only	\$315 Thurs. Lunch Only	\$ _____
<input type="checkbox"/> Thursday One-Day Includes Closing Session Lunch	\$149	\$149	\$149	\$ _____
<input type="checkbox"/> STUDENT - Must be full time Student/AWWA Student Member	FREE	FREE	FREE	\$ _____
<input type="checkbox"/> RETIREE REGISTRATION - Must be: 1) Retired from all gainful employment. 2) A member of AWWA for at least 15 years. 3) At least 60 years of age.	FREE No Meals	FREE No Meals	FREE No Meals	\$ FREE

Lunches

If not included with registration fee

☐ Keynote Luncheon \$40

☐ Exhibitor Hosted Lunch \$40

☐ Closing Session Lunch \$40

Subtotal \$ _____

SPECIAL EVENTS

☐ Tues. Technical Tour \$40

☐ Wed. Technical Tour \$40

Subtotal \$ _____

Regular Registration Fees (Non-Member Rates)

	EARLY On or Before 8/20/12	PRE On or Before 9/7/12	ONSITE On or After 9/8/12	Subtotals
<input type="checkbox"/> FULL REGISTRATION: Includes Keynote Luncheon & Exhibitor Hosted Lunch and Closing Session Lunch	\$485	\$535	\$585	\$ _____
<input type="checkbox"/> Tuesday One-Day: Includes Keynote Luncheon & Exhibit Hall Entrance	\$265	\$315	\$365	\$ _____
<input type="checkbox"/> Wednesday One-Day: Includes Exhibitor Hosted Lunch & Exhibit Hall Entrance	\$265	\$315	\$365	\$ _____
<input type="checkbox"/> EDUCATION PACKAGE #1 Tuesday/Wednesday Includes Technical Sessions & Exhibit Hall Entrance	\$265 No Meals	\$315 No Meals	\$365 No Meals	\$ _____
<input type="checkbox"/> EDUCATION PACKAGE #2 Wednesday/Thursday Includes Technical Sessions & Exhibit Hall Entrance	\$265 Thurs. Lunch Only	\$315 Thurs. Lunch Only	\$365 Thurs. Lunch Only	\$ _____
<input type="checkbox"/> Thursday One-Day Includes Closing Session Lunch	\$149	\$149	\$149	\$ _____

CONTACT HOURS

☐ FREE
(I am an individual, operator or administrative AWWA member)

☐ \$20.00
(My utility/organization is an AWWA member or I am not an AWWA member)

PAYMENT METHOD

Check # _____ Payable to CA-NV AWWA (U.S. funds)

PO# _____

Must be accompanied by a physical copy of the PO

Credit Card: ☐ Visa ☐ MC ☐ AMEX

Card No.: _____

Exp. Date: _____

Name on Card: _____

Authorized Signature: _____

Billing Zip Code: _____

Must be Zip Code in which your credit card statement is mailed

For copy of receipt, please write email address: _____

PAYMENT INFORMATION

Registration Total: _____ Special Events Total: _____

Meal Total: _____ Contact Hours: _____

Total Amount Due: _____

Refund requests must be submitted in writing to the Section office by September 7, 2012. A \$50 administrative fee will be deducted from all refunds. NO Refunds granted after September 7, 2012. By submitting this form, you are consenting to having your photo taken at the event which may be used for future Section promotions.

PAYMENT & MAILING ADDRESS

CA-NV AWWA: 10574 Acacia Street, Suite D6,
Rancho Cucamonga, CA 91730, Phone: (909) 481-7200
Fax: (909) 291-2107 www.ca-nv-awwa.org

ANNUAL FALL CONFERENCE (AFC12)

At the CA-NV AWWA, we know that with reductions in budgets and increased scrutiny on expenditures, its becoming more and more of a challenge to attend training events. Here's why attendance at AFC12 provides a great return on investment:

Nearly 200 Technical Presentations (the preliminary technical program is available online)

Our technical sessions cover diverse topics from enviromental compliance & safety to information technology...knowledge to take back and utilize at the workplace

Up to 18 Contact Hours available

Contact Hours are important for career development and certification, enhancing skills and adding value to your company

Two outstanding technical tours

Get first hand, real time knowledge on these facility tours that provide the opportunity to see new developments in water purification and water conservation.

Make vital industry connections

At our networking events and Exhibitor Expo, you'll gain insight on industry trends, new technologies and products...all of which can be shared with colleagues and co-workers.

Cost Effective Education

With so many technical programs and tours in a variety of topics, attendees can earn several contact hours per day. Register early and save on event costs!

Simply, it's a worthwhile investment in you and your organization.

FEATURED EVENTS

WELCOME MEMBERSHIP MIXER

Monday, October 8

Connect with industry leaders and your peers at this event. Expand your industry knowledge and contact base!

Conference attendees get 2 free drink tickets in their registration packet. (Please pick up before 4:30 pm)

TECHNICAL TOUR

Tuesday, October 9, 8:00 am

The City of San Diego's limited water sources meant that 85-90 percent of its water supply was imported from the Colorado River and Northern California. But with environmental stresses and court-ordered pumping restrictions, the city needs to find new sources for water. As part of this strategy, the Water Purification Demonstration Project is examining the use of advanced water purification technology. This technical tour will take us through the facility and share information on the city's progress.

TECHNICAL TOUR

Wednesday, October 10, 8:00 am

The Water Conservation Garden at Cuyamaca College has nearly 5 acres of displays that showcase water conservation through a series of beautifully themed gardens, such as native plant and vegetable gardens, as well as how to displays such as mulch and irrigation exhibits. Learn more about water conservation and the sustainable use of natural resources on this tour.

EXHIBIT HALL

Tuesday, October 9

Find out the latest in technology and products when you attend the Exhibitor Expo and Mixer. Sponsored by our 100+ exhibitors, this networking event is a great opportunity to meet your vendors face to face in a casual environment.

WHAT'S IN STORE AT THE CONFERENCE? A FEW OF THE THINGS YOU'LL FIND OUT...

Got questions? At the Annual Fall Conference, we know the issues affecting the drinking water industry and we've got all the answers!

WHAT'S AMAZING?

- Rapid Toxicity Testing Applications Using a Bioluminescent Marine Bacterium (Session #2)
- Fitting an Arsenic Plant on a Postage Stamp (Session #22)

WHAT'S CUTTING EDGE?

- The Carbon Footprint of a Water Treatment Plant Upgrade:
A Greenhouse Gas Analysis of the Rinconada Water Treatment Plant (Session #11-B)
- Paradigm Shift: Biological Treatment for Groundwater Contaminant Removal (Session #11-B)

WHAT'S COMING TO YOU?

- UCMR3 – Requirements, Planning, Execution and Public Relations (Session #3)
- Cost Implications of a Hexavalent Chromium Regulation (Session #3)

WHAT'S CONTROVERSIAL?

- Bay Delta Conservation Plan Economic Benefits and Financing Strategies (Session #20)
- NPDES Permits for Water Utilities (Session #23)

WHAT'LL SAVE YOU MONEY?

- A Proactive Approach to Inspecting Main Transmission Lines (Session #8)
- Water Treatment Plant Primary Coagulant Chemical Full Scale Testing
- Saving Over \$250,000 Annually (Session #12)

WHAT'LL KEEP YOU EMPLOYED?

- AB938 – Multi-language Requirement on Notifications of Violation (Session #3)
- Recent Cyber Attacks on US Water Systems (Session #16-B)

WHAT'LL SAVE YOUR SKIN?

- There is No Room for Error: HWD's Confined Space Rescue Team (Session #4)
- ShakeCast: Immediate Earthquake Damage Notification (Session #25)

CONFERENCE SCHEDULE

MONDAY, OCTOBER 8, 2012



7:00 am Registration
7:00 am CA-NV Committee Meetings
9:00 am CA-NV AWWA Certification Exams (*Preregistration Required*)
6:30 pm Membership Networking Mixer

TUESDAY, OCTOBER 9, 2012

7:00 am Registration
7:15 am Governing Board Meeting
8:00 am Technical Tour
9:30 am Opening Session
10:30 am Awards Ceremony
Recognizing the dedication and time of our dedicated members.
12:00pm Keynote Luncheon
- Panel Discussion on the 21st Century
Water Utility: A Progress Report
1:30 pm Technical Programs
3:00 pm Exhibits
5:30 pm Exhibitor Hosted Reception
6:30 pm Prize Drawing (*Must be present to win*)
7:30 pm Young Professionals Mixer



WEDNESDAY, OCTOBER 10, 2012



7:00 am Registration
8:00 am Technical Tour
8:30 am Technical Programs
10:00 am Exhibits
10:30 am Prize Drawing (*Must be present to win*)
12:30 pm Exhibitor Hosted Lunch
12:30 pm Prize Drawing (*Must be present to win*)
2:30 pm Prize Drawing (*Must be present to win*)
7:00 pm Water For People Benefit

THURSDAY, OCTOBER 11, 2012

7:00 am Registration
7:30 am Governing Board Meeting
8:00 am Technical Programs
12:00 pm Closing Keynote Luncheon
Closing Keynote Speaker
Dr. Robert Raucher, Vice President of Stratus Consulting





INVITATION FROM THE CHAIR

Register now for the 2012 CA-NV AWWA Annual Fall Conference (AFC 2012) in San Diego! This year's conference truly represents a "must attend" event for everyone in the California-Nevada drinking water industry. You do not want miss this important opportunity to network with your industry peers and learn about the latest strategies and technical innovations currently pursued by our most respected 21st Century water utilities. With nearly 200 high-quality technical sessions, a jam packed exhibit hall, and some very exclusive technical tours, you will have an opportunity to earn up to 18 of the most valuable contact hours available anywhere.

Please recognize that this is a critical time in our industry's history. With all the exciting challenges and opportunities before us today, each and every one of us plays a pivotal role in ensuring the sustainable future of drinking water. Every opportunity we have to learn from each other and coordinate our efforts for a successful mission should be acted upon. Seize this opportunity and register today for the AFC 2012.

I will see you there!

Steve Dennis

CA-NV Section, AWWA Chair
Alameda County Water District

THE 21ST CENTURY WATER UTILITY: A PROGRESS REPORT

Annual Fall Conference - October 8 - 11, 2012



For Reservations, please call 1-800-772-8527
The rate for single occupancy is \$129 a night.
Mention CA-NV AWWA to receive your discount.

San Diego

RESERVE YOUR ROOM BEFORE SEPTEMBER 15 FOR THE BEST RATE!

California Water...

The Next Generation

ACWA'S 2012 Fall
Conference & Exhibition

December 4-7, 2012

*Manchester Grand Hyatt
San Diego*



Association
of California
Water Agencies
Since 1910
Leadership • Advocacy
Information • Service

Inside:

- New Conference Schedule
- Registration Information
- Hotel Information
- Exhibit & Sponsorship Opportunities

August 2012

California Water...

The Next Generation

Butterfly image credit: ©iStockphoto.com/BlackJack3D



Greetings!

I would like to cordially invite you to attend ACWA's 2012 Fall Conference & Exhibition, "California Water ... The Next Generation." Set in San Diego, December 4 - 7, the fall conference will be held at the Manchester Grand Hyatt, located on San Diego Bay.

California is truly entering a new era of both opportunity and challenge. From technological advances to innovative water management strategies to a new crop of industry leaders, the next generation of California water is at our doorstep. ACWA's fall conference will shine the light on this era of change and

explore what it means for water agencies and their customers throughout the state. Many programs and panel discussions on water supply, conservation, groundwater, sustainability, water law, legislation, and economics will be presented.

In response to member feedback, we've developed a new conference schedule that gives you more program options and more bang for the buck. Afternoon programs will take place in shorter time slots, so we can cover more topics and allow busy conference goers to get to more programs and bring even more information back to their agencies.

In addition, we've added two Region Programs, one on Wednesday and one on Thursday, to meet our member requests for more focused discussions on issues specific to our 10 regions. Please refer to pages 4-5 for the preliminary agenda for more details.

ACWA's expert staffers will once again be available to answer your questions. Look for the "Ask the ACWA Experts" program in the Exhibit Hall at specific times on Wednesday and Thursday. This conference feature was offered for the first time last spring, and attendees who used it gave it positive reviews.

Professionals will have many opportunities to receive continuing education credits, including State of California MCLE credits for attorneys and contact hours for water treatment and distribution staff. Water district board members will also have three opportunities to take their AB 1234 ethics training.

The ACWA Exhibit Hall will be filled with a variety of vendors that can assist you and your agency with such things as legal, financial and public relations needs, along with any construction, design and engineering needs and more.

Many of these programs and events at conference would not be possible without the tremendous support of our sponsors!

I look forward to seeing all of you in San Diego!

A handwritten signature in dark ink, appearing to read "Randy Record".

Randy Record
ACWA President

IN THE WORKS:

There are also many other conference programs being planned at this time.

They include:

- Meal function
keynote speakers
- Region Forums
- Statewide Issue Forums
- Federal Issues Forum
- A Town Hall Meeting
- A Water Debate
- Finance Programs
- Energy Programs
- Human Resources Programs
- Water Industry Trends Programs

Attorneys Programs

These programs are approved by the State Bar of California for attorneys to receive general MCLE credits.

The Reasonable Use Doctrine in the 21st Century

Wednesday, December 5; 10-11:30 a.m.

(1.5 hours of general MCLE credit)

The panelist will discuss how the reasonable use rule of water law will be applied now and in the future. There will be particular attention to the role of the State Water Resources Control Board (SWRCB), including a discussion of the limits of the SWRCB's jurisdiction with regard to making reasonable use determinations. The application and scope of the reasonable use rule may change over time and circumstances, and so it is important for water users to understand this important doctrine.

Public Construction Projects – How to Get it Right and R.I.S.C. – Risks in Public Construction

Wednesday, December 5; 1:30-2:30 p.m.

(1.0 hour of general MCLE credit)

This program will focus on how every construction project presents a public entity with certain risks: political, pragmatic, and financial. R.I.S.C. (Research, Initiative, Selection, Contracts) is a comprehensive method developed by Bergman & Dacey to achieve fair and economically reasonable results for public entity construction projects.

Sewage Discharge, The Pelagic Organism Decline and Human Health: A New Front Line in the Battle for Statewide Water Supply Reliability

Thursday, December 6; 9:30-11 a.m.

(1.5 hours of general MCLE credit)

This panel will highlight the key legal and policy issues decided by the State Water Resources Control Board's new order requiring California's largest inland sewage discharger-the Sacramento Regional County Sanitation District-to undertake a potential \$2 billion treatment plant upgrade. They will explore the intersection between water rights and water quality based on perhaps the most significant discharge permit ever issued in California. Best available science on ammonia discharge impacts to the Bay-Delta ecosystem, reasonable potential for receiving water beneficial use impairment, water quality based effluent limits, Antidegradation Policy, the reasonable use doctrine under Article X, section 2 of the California Constitution and other issues will be address by this panel.

Workplace Bullying: The Silent Epidemic

Thursday, December 6; 1:45-2:45 p.m.

(1.0 hour of general MCLE credit)

A 2010 study found that 35 percent of workers in the United States report being bullied at work, and an additional 15 percent report that they witnessed bullying and felt demoralized by it. Employers sometimes are slow to recognize bullying issues and/or may dismiss them as petty disputes or personality conflicts. Persistent bullying can cause physical and emotional harm to employees, reduce morale, and have a devastating effect on an agency's ability to retain good employees. This workshop will define bullying and distinguish it from simple rudeness, and identify strategies for recognizing when it occurs, including when a supervisor is bullying subordinates (versus merely supervising). The session will also provide pragmatic advice for holding bullies accountable for their conduct and for assisting "targets" of bullying in reporting and responding to bullying conduct.

ACWA/JPIA Sexual Harassment Prevention for Board Members & Managers (AB 1825): Take A New Look

Tuesday, December 4

2:15 - 4:15 p.m.

The world is changing quickly in many directions and the impact of these changes filters into our workplaces on a daily basis. Have you ever thought about the impact of a sexual harassment lawsuit at your district and its effect on the board, management, staff, and the public? This course will take a "new look" at the issue of sexual harassment, particularly in light of new protected classes, technological advances, acceptable workplace behavior, and the age-old issue of respect for anyone associated with your district's business.

Questions are often asked about how boards should be involved in an investigation, what to do if a claim is filed against a board member or general manager, and when an investigation should take place and the steps to take to resolve the matter. These issues will be addressed in this session.

Other points covered by this course are understanding the California and federal sexual harassment laws, recognizing early signs of sexual harassment, and maintaining open communication in a respectful environment. The program addresses the emotional aspects of harassment and the importance of creating a safe work environment where employees can report sexual harassment violations without fear of shame or retaliation. Specific water district examples are discussed to bring about the understanding of the types of claims that occur not only in the office, but also in the field.

By equipping management and the board with the knowledge they need to prevent and respond to harassment situations, this course helps to prevent and eliminate sexual harassment in the workplace.

In order to receive credit for this class, attendees must arrive on time and attend the entire two-hour session. Human Relations professionals may count these session hours as electives towards JPIA's Human Resources Certification Program (HRCP).

For more information, contact ACWA/JPIA at (916) 786-5742.

Programs are subject to change without notice.

New Conference Schedule

More Bang for Your Buck!

In response to members' requests, a new conference schedule has been put together for the 2012 Fall Conference & Exhibition. We've developed a new conference schedule that gives you more program options and more bang for the buck. Afternoon programs will take place in shorter time slots, so we can cover more topics and allow busy conference goers to get to more programs and bring even more information back to their agencies. Programs are still in the planning stages, but you can refer to the following pages to see the preliminary agenda.

Some things to look for:

- **ADDITIONAL REGION PROGRAMS**

Members voiced their desire to have more discussions on issues that are specific to regions, so we added two Region Programs, one on Wednesday afternoon and one on Thursday afternoon.

- **THURSDAY DINNER**

We have changed the format of the traditional Thursday evening dinner and lowered the cost.

- **ASK THE EXPERTS**

ACWA's expert staffers will once again be available to answer your questions. Look for the "Ask the ACWA Experts" program which will be scheduled in the Exhibit Hall on Wednesday and Thursday. This conference feature was offered for the first time last spring. Attendees who used it gave it positive reviews.

- **CONTINUING EDUCATION CREDITS**

Professionals continue to have many opportunities to receive continuing education credits, including State of California MCLE credits for attorneys and contact hours for water treatment and distribution staff. Water district board members will also have three opportunities to take their AB 1234 ethics training.

- **NEW VENUE FOR ACWA**

The conference is taking place at a new venue in San Diego – the Manchester Grand Hyatt. This spectacular hotel allows ACWA to hold the entire conference under one roof. And its located only three miles from the San Diego International airport. See more hotel information on page 8.

Preliminary

Monday, December 3

7:30-8:45 a.m.

- ACWA/JPIA Liability Program Committee

9-10:15 a.m.

- Employee Benefits Committee

10:30-11:45 a.m.

- ACWA/JPIA Executive Committee

1:15-2:30 p.m.

- ACWA/JPIA Town Hall

3-5 p.m.

- ACWA/JPIA Board of Directors

5-6 p.m.

- ACWA/JPIA Board of Directors' Reception

Tuesday, December 4

8 a.m.

- ACWA/MWH Golf Tournament

8 a.m.-6 p.m.

- Registration

9-10 a.m.

- ACWA/JPIA Seminar I

10-11:45 a.m.

- Water Management Committee
- Water Quality Committee

10:15-11:45 a.m.

- ACWA/JPIA Seminar II

11 a.m.-Noon

- Outreach Task Force

Noon-2 p.m.

- ACWA 101 & Luncheon
- Committee Lunch Break

1-2 p.m.

- ACWA/JPIA Seminar III

1-2:45 p.m.

- Finance Committee
- Groundwater Committee
- Scholarship Subcommittee

ry Conference Agenda

All conference programs
are subject to change
without notice.

2-4 p.m.

- SDLF Special District Administrator Certification Test

2-4:15 p.m.

- Ethics Training (pg. 8)

2:15-4:15 p.m.

- ACWA/JPIA Sexual Harassment Prevention (AB 1825) (pg. 3)

3-4:45 p.m.

- Communications Committee
- Energy Committee
- Federal Affairs Committee
- Local Government Committee
- Membership Committee
- Personnel & Benefits Committee

5-6:30 p.m.

- Welcome Reception in the Exhibit Hall (pg. 7)

6:30-7:30 p.m.

- New General Manager/Director No-Host Happy Hour
- Young Water Professionals No-Host Happy Hour

Wednesday, December 5

7:30 a.m.-5 p.m.

- Registration

8-9:45 a.m.

- Opening Breakfast (Ticket required. No breakfast service after 8:30 a.m.)

8:30 a.m.-Noon & 1:30-5 p.m.

- Exhibit Hall

10-11:30 a.m.

- Attorneys Program (pg. 3)
- Communications Committee Program
- Exhibitor Technical Presentations
- Finance Program
- Human Resources Program
- Region Issue Forum
- Statewide Issue Forum
- Water Industry Trends Program

10-11:45 a.m.

- "Ask the ACWA Experts" in Exhibit Hall

11:30-11:45 a.m.

- Prize Drawing in Exhibit Hall

11:45 a.m.-1:15 p.m.

- General Luncheon (Ticket required. No luncheon service after 12:15 p.m.)

1:30-2:30 p.m.

- Attorneys Program (pg. 3)
- Exhibitor Technical Presentation
- Finance Program
- Region Program
- Town Hall

2:15-4:30 p.m.

- Ethics Training (pg. 8)

2:30-2:50 p.m.

- Dessert Break in Exhibit Hall sponsored by **Krieger & Stewart, Incorporated, Consulting Engineers**

3-4 p.m.

- Energy Committee Program
- Exhibitor Technical Presentation
- Human Resources Program
- Water Industry Trends Program

4:15-5:15 p.m.

- Anadromous Species Task Force
- Regions 1-5 Membership Meetings

4-6 p.m.

- Legal Affairs Committee

5:30-7 p.m.

- CH2MHILL Hosted Reception

Thursday, December 6

7:30 a.m.-4 p.m.

- Registration

8 a.m.-12:15 p.m.

- Exhibit Hall

8-9:15 a.m.

- Networking Continental Breakfast in the Exhibit Hall (Ticket required)

8-9:30 a.m.

- "Ask the ACWA Experts" in Exhibit Hall

9:30-11 a.m.

- Attorneys Program (pg. 3)
- Energy Committee Program
- Exhibitor Technical Presentations
- Finance Program
- Human Resources Program
- Region Issue Forum
- Statewide Issue Forum
- Water Industry Trends Program

9:30-11:45 a.m.

- Ethics Training (pg. 8)

11-11:30 p.m.

- Prize Drawing in the Exhibit Hall

11:45 a.m.-1:15 p.m.

- General Luncheon (Ticket required. No luncheon service after 12:15 p.m.)

1:15-1:30 p.m.

- Dessert Break sponsored by **Krieger & Stewart, Incorporated, Consulting Engineers**

1:45-2:45 p.m.

- Attorneys Program (pg. 3)
- Exhibitor Technical Presentations
- Region Program
- Water Debate

3-4 p.m.

- Exhibitor Technical Presentations
- Federal Issues Forum
- Human Resources Program
- Water Industry Trends Program

4:15-5:15 p.m.

- Regions 6-10 Membership Meetings

6-7 p.m.

- Outreach Reception

7-9 p.m.

- Dinner - "A Taste of Italy" (pg. 8) (Ticket required)

Friday, December 7

8-9:30 a.m.

- Registration

8:30-10 a.m.

- Hans Doe Forum Breakfast (Ticket required. No breakfast service after 9 a.m.)

Special Thanks to our Fall 2012 Conference Sponsors

Alliant Insurance Services
Anthem Blue Cross
Bank of America Merrill Lynch
Bartle Wells Associates
Black & Veatch
Carollo Engineers, Inc.
CDM Smith
CH2MHILL
Contractor Compliance
& Monitoring, Inc.
The Covello Group
Eastern Municipal Water District
El Dorado Irrigation District
HDR
Kleinfelder
Krieger & Stewart, Incorporated,
Consulting Engineers
Kronick Moskovitz
Tiedemann & Girard
Layne Christensen Company
Mead & Hunt, Inc.
Metropolitan Water District
of Southern California
Morrison & Foerster LLP
MWH
Nossaman LLP
O'Laughlin & Paris LLP
Psomas
Quad Knopf
Raymond James
RMC Water and Environment
Three Valleys Municipal
Water District
Vallecitos Water District
Wedbush Securities Inc.
Western Municipal Water District

Sponsorship Program

Become an ACWA Sponsor and Reach Top Decision Makers Today!



When you become an ACWA sponsor, you show your loyalty to California's water community. You will develop new relationships, while enhancing your current ones. Your organization will be able to reach a targeted audience of decision makers who are instrumental in the California water community.

California's water decision makers include:

- Directors
- General Managers
- Elected State & Federal Officials
- Attorneys
- Communications Professionals
- Engineers
- Finance Managers
- Human Resource Managers
- Water Quality Specialists
- Other key staff members of public agencies

Additionally, you help ACWA keep costs down on registration fees, subscriptions and more for ACWA members and "Friends of ACWA."

For more information about becoming a sponsor contact Lori Doucette at lolid@acwa.com.

Exhibit Hall Highlights



WHAT'S HAPPENING IN THE HALL...

- **Dedicated Exhibit Hall Hours**
One on one time with vendors from around the United States whose products and services may offer you just the right solutions
- **Popular Tuesday Welcome Reception**
Connect with the Water Community
- **Thursday Networking Continental Breakfast**
Hosted in the Exhibit Hall
- **"Ask the ACWA Experts"**
Connect with ACWA staff experts in the Exhibit Hall
- **Popular Dessert Break**
Ice cream social hosted in the afternoon in the Exhibit Hall
- **Cash prize drawings & more!**

WHERE: Manchester Grand Hyatt / Douglas Pavilion BCD

WHEN: See conference program or Guidebook mobile app for details

*Our sincere thanks to Krieger & Stewart, Inc.,
Consulting Engineers, for sponsoring the
popular dessert break.*





A Taste of *Italy*

Continuing Education and Training Opportunities

Many of ACWA's program sessions qualify for credit for professional career development. This conference will offer continuing education credit to Certified Public Accountants, attorneys and legal professionals, human resource administrators, and water treatment and distribution operators.

There will also be three opportunities to receive water agency official ethics training. Public officials in office must receive this training every two years (24 months). Ethics training will be available on:

- Tuesday, December 4, 2-4:15 p.m.
- Wednesday, December 5, 2:15-4:30 p.m.
- Thursday, December 6, 9:30-11:45 a.m.

Board members and managers can attend ACWA/JPIA's course on sexual harassment prevention training as mandated by AB 1825. This course takes place Tuesday, Dec. 4 from 2:15-4:15 p.m. See page 3 for more information.

All programs offered during ACWA's 2012 Fall Conference & Exhibition are valid for SDLF's Special District Administrator Certification Program. For information on the certification program, please visit: www.sdlf.org.

For more information about ACWA's continuing education programs or ethics training, contact Lori Doucette at (916) 441-4545 or lorid@acwa.com.

Join us **Thursday evening, from 7-9 p.m.** for "A Taste of Italy." Traditionally the time to relax during conference week and get together with your friends and colleagues – "A Taste of Italy" will bring the perfect blend of relaxation, fun, dining, and conversation to the end of an eventful day.

Tantalize your taste buds as you visit a wide array of Italian food stations while enjoying the music of Italy.

And now that you have pasta on your mind, here are a few fun facts about Italy:

Did you know...

- "Pizza" is one of the very few words understood all over the world, but pasta is its national dish.
- The thermometer is an Italian invention.
- The name of the electricity measurement Volt comes from Alessandro Volta who invented the first battery in 1779.
- The piano is an Italian invention, as is cologne and the ice cream cone.
- Italy has over 3,000 museums.
- Italy has three active volcanoes: Vesuvius, Etna, and Stromboli.
- The colors of the Italian flag represent three virtues: hope (green), faith (white), and charity (red).

Photo credit: © Paul Williams 2009. All rights reserved.

San Diego & Hotel *Information*

The Manchester Grand Hyatt is the setting for ACWA's 2012 Fall Conference & Exhibition. Ideally situated on the San Diego Bay, this property offers conference attendees a spectacular waterfront resort-like setting. San Diego's vibrant Gaslamp Quarter is just steps away. The location is perfect for unwinding after a day of conference. Easy to get to, this new venue is just three miles from the San Diego International Airport (Lindbergh Field).

San Diego offers a variety of attractions & activities:



Balboa Park

America's largest urban cultural park.

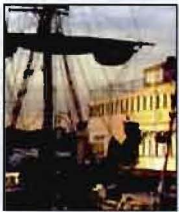
1549 El Prado
San Diego CA 92101
(619) 239-0512 Visitors Center



Gaslamp Quarter

Southern California's premier dining, shopping and entertainment district.

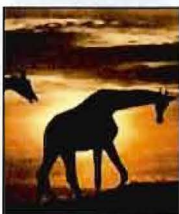
Across Harbor Drive from the convention center
San Diego, CA 92101
(619) 233-5227 Association



Maritime Museum of San Diego

World's finest collections of historic ships, including the 'Star of India.'

1492 North Harbor Drive
San Diego, CA 92101
(619) 234-9153



San Diego Zoo

Innovative animal habitats amid 100 lush acres.

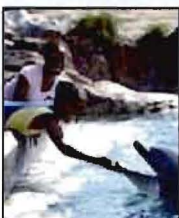
2920 Zoo Drive in Balboa Park
San Diego CA 92101
(619) 231-1515



Seaport Village

San Diego's landmark for waterfront shopping and dining.

849 W. Harbor Drive, Suite D
San Diego, CA 92101
(619) 235-4014



SeaWorld

189-acre marine life park featuring Shamu® the killer whale, new attractions, marine habitats.

500 SeaWorld Drive
San Diego, CA 92109
(800) 25-SHAMU



Hotel Reservation Information

Conference Special Hotel Rate
is available Aug. 20 - Nov. 9
(rooms based on availability)

You must first be registered for the ACWA conference in order to receive hotel reservation information.

- **For those registering prior to August 20**, hotel information will be provided via a separate email on August 20.
- **For those registering anytime from August 20 to November 9**, your confirmation email will include hotel reservation information to take advantage of the conference special hotel rate.
- **For those registering November 10-16**, your confirmation email will include hotel contact information to arrange your own accommodations. Any reservation made after November 9 may be subject to the hotel's regular room rate and availability.

Important Registration Information

DEADLINE TO PRE-REGISTER IS FRIDAY, NOVEMBER 16, 4:30 p.m. (PST)

ON-SITE REGISTRATION HOURS

Tuesday, Dec. 4 Thursday, Dec. 6
8 a.m. - 6 p.m. 7:30 a.m. - 4 p.m.

Wednesday, Dec. 5 Friday, Dec. 7
7:30 a.m. - 5 p.m. 8 - 9:30 a.m.

WHO IS ELIGIBLE FOR ADVANTAGE PRICING?

The following people are eligible for ACWA Advantage pricing:

- Any ACWA member organization's officers/directors. Any employee on an ACWA public agency member, affiliate or associate organization's payroll.
- Any ACWA board member whose fee is paid for by a member agency.
- Any state or federal administrative or legislative personnel in elective, appointive or staffing positions.
- Staff of ACWA/JPIA, Water Education Foundation and California Water Awareness Campaign.
- Any individual or honorary life member of ACWA.

If you are interested in learning more about becoming a part of ACWA, contact a member of ACWA's Member Services Group at (916) 441-4545.

SAVE WITH A PACKAGE REGISTRATION

- The preregistration package saves each eligible registrant \$95.
- A package registration includes the event registration fee, an opening reception and one ticket to all six meals (3 breakfasts, 2 lunches and 1 dinner).
- The package discount is available until 4:30 p.m. (PST) on November 16, 2012.

PRE-REGISTRATION DEADLINE

The pre-registration deadline is **November 16, 4:30 p.m. (PST)**. After that date, you must register on-site at the on-site rate. Registration may be paid with a check or charged on your Visa or MasterCard.

CHANGES & SPECIAL REQUESTS

Submit changes to your registration or a special request in writing to Margie Knight at margiek@acwa.com.

SUBSTITUTION POLICY

Event registrations are transferable from one participant to another within an organization. A substitution request may be submitted up to the event pre-registration deadline.

Submit request in writing to margiek@acwa.com. After the deadline, they will be handled on-site. Only one substitution is permitted per original registrant. The individual submitting the substitution request is responsible for all financial obligations (any balance dues) associated with that substitution.

CANCELLATION POLICY

All registration cancellations must be made in writing by the event pre-registration deadline. All such requests will receive a refund of rate paid, minus a \$75 processing charge. No refunds will be granted after the deadline. Submit request in writing to Margie Knight at margiek@acwa.com.

REFUND POLICY

Except for the cancellation policy described above, all payments and fees are nonrefundable after the pre-registration deadline.

MEAL TICKET POLICY

After the event pre-registration deadline, meal tickets are not eligible for exchange, refund or credit.

NO-SHOWS POLICY

No-shows are not eligible for a refund or credit and will be billed for any balances due.

SPOUSE/COMPANION REGISTRATION POLICY

Spouse/companion registration is \$35 (\$45 on-site) and is restricted to those who are NOT members (public agencies) and "Friends of ACWA" (affiliates, associates or individuals) and would have no professional reason to attend for purposes of learning or business. This rate includes admission to the Exhibit Hall, the Welcome Reception and the ability to purchase meal tickets and attend meal functions. Spouse/companion registrants are not eligible for cash and/or prize drawing in the Exhibit Hall.

SPECIAL NEEDS

If you have a disability that may require accommodation to assure your full participation, please contact Margie Knight at margiek@acwa.com or call toll free at (888) 666-2292 to discuss your needs.

NAME BADGES

Name badges must be worn to attend all conference events. Information on each badge is taken directly from online registration submissions and conference pre-registration forms. Therefore, please submit complete, accurate and legible information.

Name badges sponsored by **Bartle Wells Associates**.

Name badge holder lanyards sponsored by **Psomas**.

ACWA's 2012 Fall Conference & Exhibition Pre-registration

Manchester Grand Hyatt, San Diego | December 4 - 7, 2012

ONLINE REGISTRATION NOW AVAILABLE: WWW.ACWA.COM

PRE-REGISTRATION & CANCELLATION DEADLINE IS 4:30 P.M. (PST), NOV. 16, 2012

All registration cancellations must be made in writing by Nov. 16. All such requests will receive a refund, minus a \$75 processing charge. No refunds granted after Nov. 16. Submit request to Margie Knight at margiek@acwa.com

OFFICE USE ONLY - FC12-1

ENT _____

DATE _____

Conference Attendee Registration (Fill in completely-Please print/type clearly) ☐ My info has changed. Please update it.

* Required Fields (If bringing a guest, guest's name and e-mail address are required as well.)

* Name on Badge to Read _____

* Title _____

* Organization _____

* Address _____

* City _____ * State _____ * Zip _____

* Phone: () _____ FAX: () _____

* Attendee E-mail: _____

* Confirmation E-mail: _____

If registering on someone's behalf, please be sure to include YOUR e-mail address here and a copy of the confirmation email will be sent to you.

PAYMENT INFORMATION

☐ Enclosed is my check payable to ACWA

☐ Please charge my fee to my credit card



Credit Card Number: _____

Exp. Date: _____ Amount: \$ _____

Cardholder's Name (as seen on card): _____

Please print clearly.

Signature: _____

Guest Registration (22) (Please see spouse/companion registration policy on page 10.)

* Guest Name on Badge to Read (\$35 fee if attending) _____

Guest E-mail (MUST be different from attendee's e-mail) _____

Preregistration PACKAGE – For ACWA public agency members, affiliates & associates only

(Includes registration & all meals. Does not include guest registration.) **Not available on-site** (20) \$635 \$ _____

Conference Registration (21) (Meals not included)

	Preregistration	On-site	Amount
Advantage	\$465	(\$490)	\$ _____
Standard	\$695	(\$720)	\$ _____
Guest	\$35	(\$45)	\$ _____

2-Day Conference Registration (Meals not included)

	Preregistration (Advantage)	Preregistration (Standard)	On-site (Advantage)	On-site (Standard)	Amount
<input type="checkbox"/> Tues., Dec. 4/Wed., Dec. 5 (23)	\$250	\$375	\$275	\$400	\$ _____
<input type="checkbox"/> Thurs., Dec. 6/Fri., Dec. 7 (24)	\$250	\$375	\$275	\$400	\$ _____

MEAL FUNCTIONS

Wednesday, December 5

Opening Breakfast (30)	_____	\$40	(\$42)	\$ _____
Luncheon (31)	_____	\$45	(\$47)	\$ _____

Thursday, December 6

Networking Continental Breakfast (35)	_____	\$30	(\$35)	\$ _____
Luncheon (32)	_____	\$45	(\$47)	\$ _____
Dinner (33)	_____	\$65	(\$70)	\$ _____

Friday, December 7

Hans Doe Forum Breakfast (34)	_____	\$40	(\$42)	\$ _____
---	-------	------	--------	----------



Please send completed form with payment to:

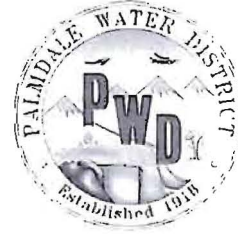
ACWA, P.O. Box 2408, Sacramento, CA 95812-2408 **or** FAX to (916) 325-2316.

If you mail this form, please do not also fax to avoid duplicate registration.

Questions? Contact ACWA toll free (888) 666-2292 or e-mail events@acwa.com

TOTAL \$ _____

PALMDALE WATER DISTRICT



Memo

Date: 8/31/2012

To: Peter Thompson II, Operations Manager

From: Joe Kerschner, Water Quality Supervisor

CC:

Re: NALMS Conference Attendance

We are currently dealing with several water quality issues in Palmdale Lake that impact the water treatment plant performance and treatment cost. We are in the midst of our second algal bloom this summer as well as dealing with invasive aquatic weeds. I feel it is important that we gain as much knowledge regarding invasive weed abatement and prevention as possible. Additionally, it is vital that we remain abreast of the latest techniques used to deal with potentially harmful algal blooms.

The Water Quality Laboratory has included sufficient funds in the 2012 budget to send one lab analyst to a source water quality conference. The North American Lake Management Society is holding their annual symposium in Madison Wisconsin, November 7-9, 2012. The educational offerings and workshops available during this conference cover topics that the Palmdale Water District can greatly benefit from. The knowledge gained during these sessions will help improve our lake management efforts and protect the source that provides water to nearly 75% of Palmdale residents.

I have attached a copy of the sessions and workshops and have highlighted the topics that I feel will be most beneficial to the District.

I am requesting that the board approve this request for one member of staff to attend the NALMS conference at an estimated cost of \$1,670.

If you have any questions, please contact me.

Sincerely,


Joe Kerschner

Water Quality Supervisor

[HOME](#) >> [CONFERENCES](#) >> [2012 NALMS SYMPOSIUM](#)[Sign Up](#)
[email](#)**NALMS' 32nd International Symposium****November 7 - 9, 2012 • Madison, Wisconsin**
Lakes in the Landscape: Values > Visions > Actions

Every year NALMS' membership comes together for a collection of professional presentations, general workshops and non-stop discussions on managing lakes and reservoirs. Vendors are present with the latest lake management tools displayed. The lion's share of NALMS networking occurs at this conference and life-long friendships are forged.



- [Click here to Register!](#)
- [Click here for Exhibitor Information!](#)
- [Click here for Sponsorship Information!](#)
- [Symposium Sponsors](#)
- [Past Symposia](#)

In these tough economic times, the values we place on our natural resources, including lakes, becomes more important than ever. These values are brought into focus by our vision for lakes, essentially what we want as an outcome of successful management. Finally, turning these visions into actions requires partnerships, good science, and perseverance! Because Lakes respond to stressors at a variety of scales, NALMS 32nd International Symposium will emphasize the science of lakes in the landscape, ranging from in-lake to watershed to global, as well as approaches that facilitate lake management...from satellites to surveys to shorelines.

The program committee is excited to bring NALMS back to Madison and the Yahara Lakes, building on the successes of two previous symposia in 2001 and 2005. As before, we will begin each day with a set of plenary talks that relate to the theme and serve as an introduction to special sessions: Lake Values and Ecosystem Services, Landscape Limnology, Adapting to Climate Change. We are excited to have Dr. Steve Carpenter, director of the University of Wisconsin Center for Limnology and 2011 recipient of the Stockholm Water Prize as our keynote speaker to open the symposium. We will also celebrate 20 years of the Wisconsin Lakes Partnership, a unique collaboration between government (Wisconsin Department of Natural Resources), education (University of Wisconsin Extension), and nonprofit advocacy (Wisconsin Lakes) institutions to protect and restore lakes in Wisconsin, and look to the next 20 years.

Finally, the 2012 Madison conference will again feature a special session on the Yahara River watershed and its more than 22,000 acres of lakes and streams that are so important to the region's economy and quality of life. This Friday session, "Yahara Lakes: Implementing a Vision," open to all conference attendees and Madison area residents, will consist of presentations by local scientists, managers and conservation groups on successes and challenges of implementing the water quality improvement strategies that emerged from the 2005 conference.

Important Dates

- August 24, 2012 - Registration and payment from presenters of accepted abstracts due.
- September 14, 2012 - Early bird registration ends
- October 5, 2012 - Last day conference hotel rate available.
- October 26, 2012 - Regular registration ends.

Contact Information

- Tim Asplund - Symposium Program Chair - tim.asplund@wi.gov
- Jennifer Hauxwell - Symposium Program Co-chair - jennifer.hauxwell@wi.gov
- Jeffery Thornton - Symposium Host Committee Chair - jthornton@sewrpc.org
- Tom Slawski - Symposium Host Committee Co-chair - tslawski@sewrpc.org
- General Conference, Exhibitor & Sponsorship Information - NALMS Office, 608.233.2836, info@nalms.org

NALMS
Madison, WI 53705-5443
P (608) 233-2836
F (608) 233-3186
info@nalms.org

ABOUT
CONFERENCES
PUBLICATIONS
CONTACT US

JOIN
PROGRAMS
LAKE MANAGEMENT POLICY
SITEMAP

DONATE/SPONSOR
LAKE MANAGEMENT
MEMBERSHIP

FACEBOOK
 FLICKR
 LINKEDIN

Preliminary Agenda

August 21, 2012

Wednesday, November 7

8:30 – 10:00 am

Opening Plenary Session

10:00 – 10:30 am

Refreshment Break

10:30 am – 12:00 pm

Concurrent Session A

A1: Nutrient Cycling

- *An Assessment of Nutrient Limitations in Lake Erie* – Darren Bade
- *Oxic Release of Phosphorus from Sediments in Minnesota Lakes* – Joseph Bischoff
- *Methane Ebullition in a Shallow Eutrophic Lake* – Michael Anderson
- *Comparative chemistries of selected lakes in Wisconsin, New York, and in the Country of Germany* – Kenton M. Stewart

A2: Values and Social Aspects of Lake Management

- *We Love Our Lakes Yet Degrade Them – What Explains the Paradox?* – Darby Nelson
- *Balancing the Water Needs of People and Natural Systems: Lessons from Florida* – Ann Shortelle
- *Impaired Bathing Beaches of Southeastern Wisconsin: Sources and Solutions* – Adrian Koski
- *Interaction of Land Use or Landscape Position and Microhabitat on Urban Stormwater: Integrating Research and Education in Citizen Science* – Robert Bohanan

A3: New Technologies I

- *Developing Seasonal Models to Accurately Assess Algal Succession and Water Quality Using Remotely Sensed Data: A Case Study at Deer Creek Reservoir, Utah* – Carly Hyatt
- *New Empirical Band-Ratio Algorithms for Estimating Chlorophyll Concentrations in the Great Lakes from Satellite Observations* – Barry Lesht
- *The Use of Satellite Remote Sensing for Lake Monitoring in Wisconsin* – Steven Greb
- *Recent Trends, Current Status and Future Prospects for Regional Water Quality Measurements by Satellite Remote Sensing* – Leif Olmanson

A4: Reservoir Fishery Habitat Partnership

- *Friends of Reservoirs Foundation: Building Capacity Using a 501(c)(3)* – Jeff Boxrucker
- *A Classification System for Large U.S. Reservoirs and its Application to the Midwest* – Rebecca Krogman
- *Iowa's Lake Restoration Program and Its Linkage to the National Reservoir Fish Habitat Partnership* – Mike McGhee
- *Nebraska's Aquatic Habitat Program: Past, Present and Future* – Mark Porath

A5: Harmful Algal Blooms I

- *Cyanobacterial Assemblages and Environmental Variables Associated with the Co-Occurrence of Cyanotoxins and Taste-and-Odor Compounds in Midwestern Drinking-Water Supply Reservoirs* – Lenore Tedesco
- *Fate and Transport of Cyanobacteria-Related Toxins and Taste-and-Odor Compounds from Upstream Reservoirs Releases in the Kansas River, Kansas* – Jennifer Graham
- *Relations between Hydrology, Water Quality, and Taste-and-Odor Causing Organisms and Compounds in Lake Houston, Texas, April 2006 - September 2008* – Lee Bodkin
- *Experimental Additions of Alum and Nitrogen to Large-Scale in situ Mesocosms to Reduce Algal Biovolume and Microcystin Concentration* – Ted Harris

A6: In-lake Management: Managing Internal Loading

- *Iron Scavenging as a Natural Control of Internal Phosphorus Loading in Contrasting Dimictic Wisconsin Lakes* – Adam Hoffman
- *Treating a Dimictic Eutrophic Lake with Relatively Low Dosage of Al-polychloride – Reasons, Results, Problems* – Peter Kasprzak
- *Hypolimnetic Withdrawal as a Possible Treatment of Internal Load in a Natural Drinking Water Reservoir in Stockholm, Sweden – an Evaluation* – Gertrud Nürnberg
- *Bottom Water Withdrawal in Devil's Lake: Combining Science and Engineering to Solve Multiple Lake Management Problems* – Richard Lathrop

12:00 – 1:30 pm

Lunch

1:30 – 3:00 pm

Concurrent Session B

B1: Climate Change I

- *Climate Change Impacts on Wisconsin's Water Resources: Building Capacity for the Future* – Carolyn Betz
- *Does a Warmer, Drier Climate Mean More Seepage Lakes?* – Paul Garrison
- *Climate Change: Are Our Reservoirs Being Affected?* – Carolyn Thomas
- *Long-Term Biomanipulation Will Be Challenged by Climate Change – Case Lake Säkylän Pyhäjärvi (SW Finland, North Europe)* – Anne-Mari Ventelä

B2: Lake Economics

- *Payments for Ecosystem Services in Lake Watersheds: Values, Incentives and Institutions* – Hebin Lin
- *Economic Values for Lake Improvement – Using a Method to Better Reflect the Preferences of Less Wealthy Residents* – Mark Eiswerth
- *Analyzing the Economic Impact of Wisconsin Phosphorous Regulation: Political Requirements and Practical Realities* – Angela Rampton
- *Lake Winnebago Economic Valuation Study* – TBD

B3: New Technologies II

- *Lake Habitat Mapping with Side-Scan Sonar and the Relation to Fish Diversity in Eleven Wisconsin Lakes.* – Christine Koeller
- *From Sensors to Drivers: Understanding Dynamics and Potential Drivers of Algal Blooms using in situ Fluorescence Measurements as a Response Variable* – Amanda Stone
- *Real-Time Water Imaging System (RTWIS): A Ground-Based Water Quality Monitoring Tool* – Adam Bechle
- *"Talk to me." Identifying and Understanding Patterns in Lake Time Series Data Using Symbolic Representation and Natural Language Processing* – Paul Hanson

B4: Fisheries, Water Quality and Habitat I

- *Prioritization of Road-Stream Crossing Upgrades in the Green Bay Watershed.* – Jeff Maxted
- *So Many Choices – Prioritizing Natural Lake Habitat Management Actions in Minnesota* – Michael Duval
- *Fish Population Dynamics in a Northern Wisconsin Lake Following a Whole-lake Addition of Coarse Woody Habitat* – Greg Sass
- *Food Web Related Spatial Variation in Growth of Commercially Important Walleye (*Sander vitreus*) and Sauger (*Sander canadensis*) in Lake Winnipeg, Manitoba: The Impact of an Invasive Species, Rainbow Smelt (*Osmerus mordax*)* – Katie Sheppard

B5: Harmful Algal Blooms II

- *HABs in NYS: Occurrence, Case Studies, and Development of Screening Tools and Response Protocols* – James Hyde
- *A Multi-Agency Approach to Measuring the Public Health Burden of Harmful Algal Blooms* – Emelia Wollenburg
- *An Integrative Model of Climatic and Landscape Predictors of Cyanobacterial Toxins in Lakes and Reservoirs of the Northern Great Plains* – Mark Graham
- *Long Term Assessment of Nitrogen Cycling and Harmful Algal Blooms in Lake Mendota, WI, USA* – Lucas J Beversdorf

B6: In-lake Management: Aeration I

- *In Situ Evaluation of Laminar Flow Aeration on Multiple Water Quality Parameters in Indian Lake, Cass County, Michigan.* – Jennifer Jermalowicz-Jones
- *Multi-Year Destratification Study of an Urban, Temperate Climate, Eutrophic Lake* – David Austin
- *Combining Multiple Management Strategies to Accomplish Overall Water Quality Improvement* – Paul Gantzer
- *A Redox Perspective on Lake and Reservoir Restoration and Water Quality Management* – Roger Scharf

3:00 – 3:30 pm

Refreshment Break

3:30 – 5:00 pm

Concurrent Session C

C1: Climate Change II

- *Central Florida's Recent Rainfall Patterns and Implications for Lake Management* – Lance Lombard
- *Influences of Local Weather, Large-Scale Climatic Drivers, and the Solar Cycle on Lake Ice Breakup Dates; 1905-2004* – Sapna Sharma
- *Impacts of Climate Change on Ice Cover and Thermal Structure in Southern Wisconsin Lakes of Differing Morphometry* – Madeline Magee
- *Variations of Intra- and Inter-Annual Circulation and Thermal Structure in Lake Mendota under Changing Climate* – Anastasia Gunawan

C2: International Lakes

- *Aquatic Systems of Dominica: Opportunities and Questions* – John Hains
- *Prospective on Restoration and Management and Conservation of Bangalore Urban Lakes* – Sanna Durgappa
- *Hydrological Assessment of Significant Lakes in Broghil and Qurumber Valleys, Northern Alpine Wetlands Complex* – Samiullah Khan
- *Limnological Investigations of Limiting Nutrients and Stream and Lake Invertebrate Communities in the High Andean Páramo of Southern Ecuador* – Amy Thorp

C3: On Golden Pond: Visualizing Sustainability in Maine

- *Cameras, Satellites, and Surveys: A Multi-Platform Approach to Monitoring Lake Conservation Practice* – Philip Nyhus
- *Effects of Residential Shoreline Development on Characteristics of Littoral Habitats in the Belgrade Lakes of Maine* – Catherine Bevier
- *The Land Between the Lakes: Virtual Geologic Field Trips in the Kennebec Highlands of Central Maine* – Brian Morgan
- *The Challenges and the Rewards of Creating a State-Wide Lakes Research Collaboration* – D. Whitney King

C4: Fisheries, Water Quality and Habitat II

- *Declining Fish Population and Biodiversity in Lake Victoria Kenya: Possible Management Options* – Omwoma Solomon
- *The Effects of Hypolimnetic Oxygenation on Fish Diet in a Mixed Warm- and Cold-Water Fish Community in Twin Lakes, Washington* – Megan Skinner
- *Habitat Improvement and Internal Load Reduction in North Twin Lake with Hypolimnetic Oxygenation* – Barry Moore
- *Effects of Stocked Trout and Aeration on Native Communities of Small Boreal Lakes* – William Tonn

C5: Reservoir Dynamics

- *Correspondence of Sediment Core Diatom Composition Stratigraphy with Watershed Land Use of Meander Creek Reservoir, Ohio USA* – Lauren Schroeder
- *Impacts of Water Level Variation in a Very Large Reservoir; Lake Mead, Arizona-Nevada* – Todd Tietjen
- *Historic Deltaic Sedimentation Patterns in Lake Powell, Utah-Arizona, 1998-2011* – William S. Vernieu
- *A Reservoir Embayment Characterization Process to Prioritize Water Quality Improvements* – Terry O'Quinn

C6: In-lake Management: Nutrient Inactivation

- *ALUM Treatment of Burandt Lake and Subsequent Results* – Tim Sundby
- *Twenty Two Year of Hypolimnetic Aeration: The Saint Paul Regional Water Supply Experience.* – Roger Scharf
- *Water Quality Changes Following Application of a Patented Lanthanum Modified Clay Technology* – West Bishop
- *The Use of Polymer Enhanced Best Management Practices (PEBMPS) to Control Excess Nutrients and Turbidity, and to Improve Water Quality* – Kyla Iwinski

5:00 – 6:30 pm

NALMS Membership Meeting

6:30 – 8:00 pm

Exhibitor Reception / Poster Session

- *Designing Lakes from Scratch: End Pit Lakes in the Mine Reclamation Landscape of the Alberta Oil Sands* – David Austin
- *Climate Change Impacts on Wisconsin's Water Resources: Building Capacity for the Future* – Carolyn Betz
- *Modeling Downstream Temperature Effects of Operational and Structural Changes to Detroit Dam, Oregon* – Norman Buccola
- *A Citizen-Led Effort to Achieve a Shoreland Restoration at the Wisconsin Governor's State Residence* – Patricia Cicero
- *Applying Community-Based Participatory Research Approach to Water Resources Management: the Case of Lake Diefenbaker, Saskatchewan, Canada* – Jania Chilima
- *Efficiently Adding D.O. to Polluted Water Ways* – Kevin Jacobs
- *High-Resolution Temporal and Spatial Dynamics of Microbial Community Composition and Function Revealed Through Time-Series Metagenomics in Trout Bog Lake, WI* – Benjamin Crary
- *Nutrient Loading Limitation and Objectives in a Chain of Hypereutrophic Lakes* – John-Mark Davies
- *Nature's Influence on Artificial Oxygenation* – Paul Gantzer
- *The Wisconsin Lake Leaders Institute: Capacity Building for Future Lake Champions* – Patrick Goggin
- *Assessing the Needs of Volunteer Monitoring Programs: Recent Survey Results and Implications* – Linda Green
- *Blue-Green Algae Testing on the Wisconsin River by Citizen Volunteers* – Reesa Evans
- *Aquatic Invasive Species Monitoring Through the Citizen Lake Monitoring Network* – Laura Herman
- *HABs in NYS: Occurrence, Case Studies, and Development of Screening Tools and Response Protocols* – James Hyde
- *Urban Stream Restorations: Northern Pike Spawning Habitat Creation and Streambank Stabilization* – Jens Jensen
- *Hydrological Assessment of Significant Lakes in Broghil and Qurumber Valleys, Northern Alpine Wetlands Complex* – Samiullah Khan
- *Lake Habitat Mapping with Side-Scan Sonar and the Relation to Fish Diversity in Eleven Wisconsin Lakes* – Christine Koeller
- *A Comparison of Historical Changes in Lake Morphology of Six Inland Lakes in Wisconsin* – Christine Koeller
- *Extreme Rainfall in a Changing Climate* – David Liebl
- *Long-Term Changes in Lake Chemistry Related to Sulfate Deposition and Climate* – Noah Lottig

- *Clean Boats, Clean Waters: Citizens and Staff Work Together to Protect Wisconsin's Lakes* – Erin McFarlane
- *Habitat Improvement and Internal Load Reduction in North Twin Lake with Hypolimnetic Oxygenation* – Barry Moore
- *Sensitivity of Winter/Spring Hydrologic Processes to Climate Change in a Temperate Climate* – Evan Murdock
- *FlowCAM Update – 17 Years In the making* – Harry Nelson
- *Using a One-Dimensional Mixing Model to Simulate Stratification in a Shallow Lake* – John Rueter
- *Lakes, Landscape and Ecotourism Potential in Broghil Valley- Pakistan* – Ahmad Said
- *Rapid Response to Control *Myriophyllum spicatum* at Blackhawk Lake, Wisconsin* – Laura Sefton
- *Declining Fish Population and Biodiversity in Lake Victoria Kenya: Possible Management Options* – Omwoma Solomon
- *The Effect of Stocking Milfoil Weevils (*Euhrychiopsis lecontei* Dietz) on Eurasian Watermilfoil (*Myriophyllum spicatum* L.) Density in Lake Joanis, Stevens Point, Wisconsin* – Paul Skawinski
- *Potential Impact of Wocus Patches on Upper Klamath and Agency Lake (Oregon)* – Diana Spartis
- *Operationalizing Lake Temperature and Ice Cover Metrics Across the Globe Using Satellite Remote Sensing* – Nathan Torbick
- *Mapping Chlorophyll-a and Cyanobacteria Across Two Diverse Watersheds with Hyperspectral and Landsat Imagery* – Nathan Torbick
- *Non-Monotonic Trends in Citizen-Based Regional Lake Water Clarity* – Tyler Wagner
- *Blue-Green Algal Blooms Control in Northern Lake Dianchi* – Shuxia Zhang

Thursday, November 8

8:30 – 10:00 am

Plenary Session

10:00 – 10:30 am

Refreshment Break

10:30 am – 12:00 pm

Concurrent Session D

D1: Landscape/Regional Limnology I

- *The Good News from the 2007 National Lakes Assessment: US Lakes Are Not as Bad as We Thought* – Roger Bachmann
- *Changes in the Transparency of Lakes in North America: A Regional Perspective* – Robert Carlson
- *Lake Bioassessment in Europe: What the Biological Community Tells Us After 12 Years of Research* – Sandra Poikane
- *Integrating Ecohydrology and Landscape Perspectives into Multi-System Management of Irish Lakes under the Water Framework Directive* – Katherine Webster

D2: Modeling for Lake Management: Climate Change

- *Influences of Climate Change on the Annual Thermal Stratification of a Large Oligotrophic Lake* – Elliott Reams
- *Minnesota's Super-Sentinel Lakes Project: Using Predictive Modeling to Assess Major Drivers of Lake Ecosystem Response* – Richard Kiesling
- *Simulating Lake Responses to Climate Change with a Mechanistic Water Quality Model* – Josiah Hawley
- *Modeling the Effects of Future Climate Change on Water Quality in Lake Mead* – Imad Hannoun

D3: Lake "Views"

- *Coping with the Complexity of Lake Management Research: How Visualization of the Whole System Can Help* – John Rueter
- *"Google" Lakeview - Creating Public Domain Shoreline Photos to Support Municipal Zoning Policies, Code Enforcement, and Evaluation of Ecosystem Status* – Rebecca Forgrave
- *Development and Implementation of an Integrated Nowcast and Forecast Operation System-Dane County (INFOS-DC): Vision for Managing Yahara Lakes* – Chin Wu
- *Application of a Data Mining Approach to Derive Operating Rules for the Eleviyan Irrigation Reservoir* – Mohammad Taghi Sattari

D4: Fisheries, Water Quality and Habitat III

- *Dynamics of Juvenile Fish in Three Habitats Within an Oxbow Lake* – Caroline Andrews
- *The Role of Lake Depth in Regulating Water Quality and Fish Assemblages in Oxbow Lakes of the Yazoo River Basin* – Daniel Goetz
- *Detection and Quantification of the Cyanotoxin, Microcystin, in Fish Muscle Tissues* – Ellen Preece
- *Effects of Copper Sulfate Application on Zooplankton Communities in Upground Reservoirs: Implications for Stocked Fisheries Success* – Meghan Weaver

D5: Keeping the Lake in Lake Management I

- *Keeping the Lake in Lake Management* – Ken Wagner
- *The Institutionalization of the Watershed Approach (and the De-Institutionalization of the Lake Restoration Approach) in Managing Lakes* – Dick Osgood
- *Waterbody Management: One of Three Pillars of Clean Water Act Legislation is Missing but Needed in Current US Policy* – H Kenneth Hudnell
- *Lake Management from the Lake's Perspective: What P Does the Lake See?* – Harry Gibbons

D6: Source Water Protection

- *Using the American Water Works Association's Source Water Protection Standard to Develop a Source Water Program for Beaver Lake, Arkansas.* – Robert Morgan
- *Both Nature and Nurture: How to Use and Drink From the Same Lake* – Paul Thomas Hunt
- *The Role of In-Reservoir Management in Source Water Protection* – Steven Patterson
- *Developing a Vision and Roadmap for Source Water Protection for U.S. Drinking Water Utilities* – Chi Ho Sham

12:00 – 1:30 pm

Lunch / Clean Lakes Classic

1:30 – 3:00 pm

Concurrent Session E

E1: Landscape/Regional Limnology II

- *Modeling Lakes as a Population: Parsimonious Power-Law Based Models of Lake Size-Distribution Morphology and Process* – Luke Winslow
- *Chlorophyll a Response to Total Phosphorus Enrichment in Lakes Differs by Spatial Scales and Among Regions: Implications for Developing Water Quality Criteria at the State Level* – Christopher Filstrup
- *Making Informed Management Decisions About Your Lake Using Regional Landscape Information* – C. Emi Fergus
- *Assessing Regional and Statewide Lake Conditions in Michigan Using the National Lakes Assessment Data Assessment Tools* – Ralph Bednarz

E2: Modeling for Lake Management: Eutrophication

- *Linking a Dynamic Watershed and Lake Phosphorus Model to Improve the Phosphorus Budget for Upper St. Croix Lake in Wisconsin* – Paul McGinley
- *Modeling the Effects of Changes in Water Level on the Water Quality of a Shallow Lake, Shell Lake, Wisconsin* – Dale Robertson
- *Effects of Land-Use Changes on Water Quality of Lake Maumelle, Arkansas – A Case of Confounding Perspectives, Expectations, and Value* – Reed Green
- *Simulating Water Clarity Using a Lake Eutrophication Model* – Jean Marie Boyer

E3: Aquatic Invasive Species I: Impacts and Management

- *Seasonality of Diet Selectivity of an Invasive Population of Rainbow Smelt (Osmerus mordax) in Lake Winnipeg, Manitoba, Canada* – Andrew Olynyk
- *Selective Removal of a Cold-Water Invasive Fish Using Artificial Destratification: Preliminary Results from a Novel Thermal Manipulation of Crystal Lake, WI* – Jordan Read
- *Effects of Common Carp on Wild Rice Survival and Growth* – James Johnson
- *Invasive Crayfish Removal Leads to Sustained Changes in Littoral Food Web* – Gretchen Hansen

E4: Floodplain Lakes

- *Lake Belle View, A Comprehensive Millpond/Lake/Floodplain Forest Restoration* – Richard Wedepohl
- *Oxbows, Delta Ponds and Sloughs: Wisconsin's Forgotten Lakes* – David Marshall
- *Is Off-Channel Lake Construction a Viable Option for Millpond Communities?* – Jean Unmuth
- *Simplifying Monitoring Efforts and an Assessment of Oxbow Lakes in the Mississippi Alluvial Valley* – Caroline Andrews

E5: Keeping the Lake in Lake Management II

- *Aquatic Plant Ecology Meets the Science of Plant Management* – John Madsen
- *The Use of Algaecides in Adaptive Water Resource Management* – John Rodgers
- *Meeting Lake Nutrient Reduction Goals via Urban Stormwater Retrofits: Getting the Most Bang for Your Buck* – Kathy DeBusk
- *Control of Watershed Loadings Using Chemical Treatment* – Harvey Harper

E6: Reservoir Management

- *The Effects of Artificial Operation Modes on Water Quality of a Canyon-Shaped Reservoir in the South of China* – Xin Qian
- *Longitudinal Water Column Structure of Reservoir Ecosystems as Determined by Inflow and Basin Morphometry* – Alan Groeger
- *Relationships between Nutrients and Disinfection Byproducts in Lake Waco, Texas* – Corey Godfrey
- *Why Are There Fish in My Drinking Water?* – Joseph Eilers

3:00 – 3:30 pm

Refreshment Break

3:30 – 5:00 pm

Concurrent Session F

F1: Long Term and Large Scale Lake Datasets

- *Long-Term Data Sets: Opportunities and Challenges for Lake Science and Management* – Emily Stanley
- *Water Quality Conditions and Long-Term Trends in Alberta Lakes* – Richard Casey
- *Using High-Resolution Geospatial Data to Advance Understanding of the Abundance and Size Distribution of Lakes* – Cory McDonald
- *Data Management for Long-Term Water-Quality Monitoring in Lake Powell, Utah-Arizona, 1964 – 2011* – William S. Vernieu

F2: Developing Indices and Criteria for Water Quality

- *Using Model Selection Criteria and Maximum Likelihood Methods to Calculate Critical Loading Limits for Acid-Sensitive Lakes in the Chequamegon-Nicolet National Forest, Wisconsin, USA* – Nancy Serediak
- *Development of a Water Quality Index for Evaluation of Modeling Scenario Results* – Christine Hawley
- *Methods for Developing Site-Specific Phosphorus Criteria for Wisconsin Lakes* – Matthew Diebel
- *Evaluation of Water Quality Using Chemical, Molecular and Culture-Dependent Methods* – Elizabeth Herron

F3: Aquatic Invasive Species II: Abundance and Distribution

- *The Spiny Water Flea Invasion of Lake Mendota: Assessing Invader Impact Using Distinct Historical Eras from Long-Term Data* – Jake Walsh
- *Bellamya japonica (von Martens 1861) a Newly-Introduced Invasive Snail in the Savannah River Basin: Studies of Its Distribution and Ecological Interactions* – John Hains
- *Examining Zebra Mussel Habitat Preference and Population Dynamics Within and Among Lakes in Northeast Wisconsin and Upper Michigan* – Maureen Ferry
- *How Invaded Is Our Lakescape?: Enumerating Invaded Lakes In the Northern Highlands Lake District and Across Wisconsin* – Alexander Latzka

F4: Voice of Experience

- *What I've Learned: Lessons from Thirty Years in Lake Management* – William Jones
- *It Takes a Village – Reflections on 21 years with the Wisconsin Lake Partnerships* – Robert Korth
- *Retired But Not Tired – 4 Decades of Lake Restoration* – Doug Knauer
- *NALMS Reminisces: 1980 to the Present* – Kenneth Reckhow

F5: Watershed Management in Yahara Basin

- *Tracking Efforts to Enhance Ecosystem Services in the Yahara Watershed: an Action Database* – Adena Rissman
- *Shifting Baselines in Lake Management: the Challenge of Defining Goals and Measuring Outcomes in Yahara Watershed Governance* – Sean Gillon
- *Assessing a Decade of Phosphorus Management in the Lake Mendota, Wisconsin Watershed and Scenarios for Enhanced Phosphorus Management* – Emily Kara
- *Residence Times in a Lake-River Chain System* – John Reimer

F6: Urban Lake and Watershed Challenges

- *Inter-storm Phosphorus Solubilization from Stormwater Pond Sediments: Developing a Rapid Assessment Protocol (RAP) to Determine Actual Stormwater Pond Nutrient Removal Performance* – Jason Carroll
- *Development of an On-Site Wastewater Treatment System Management Plan for Northern New Jersey Lake Communities, Part 1: Data Analysis* – Christopher Mikolajczyk
- *Development of an On-Site Wastewater Treatment System Management Plan for Northern New Jersey Lake Communities, Part 2: Utilization of Data in the Plan* – Fred Lubnow
- *Challenges in Predicting a Clear-water State for Shallow Lake Excess Nutrient Shallow Lake Total Maximum Daily Loads* – Joseph Bischoff

5:30 – 10:00 pm

NALMS Awards Reception & Banquet

Friday, November 9

8:30 – 10:00 am

Plenary Session

10:00 – 10:30 am

Refreshment Break

10:30 am – 12:00 pm

Concurrent Session G

G1: Yahara Lakes I

- *Re-Setting the Stage: A Dynamic Context for Lake Protection* – Ken Genskow
- *Funding, networks, and accounting for performance in efforts to enhance ecosystem services in the Yahara Watershed* – Adena Rissman
- *Setting the Stage for Success: Yahara CLEAN and Other Watershed Accomplishments* – Susan Jones
- *Taking the Next Steps from the CLEAN Plan - The Detailed Engineering Report* – Jane Carlson

G2: Wisconsin Lakes Partnership I

- *Key Moments in the History of Shoreland Zoning and Regulation in Wisconsin* – Eric Olson
- *Lake Classification in Wisconsin: a Tool to Guide Countywide Lake Management Efforts* – Susan Tesarik
- *Modernizing State Shoreland Regulations: The Wisconsin Experience* – Heidi Kennedy
- *Updating Shoreland Zoning in Dunn County, Wisconsin: Challenges and Lessons Learned* – Richard Lamers

G3: Aquatic Invasive Species III: Plant Management

- *Reduced Herbicide Susceptibility in Hybrid Watermilfoils: Research and Management* – Ryan Thum
- *Evolution of Renovate™ (Triclopyr) Use Patterns for Selective Management of Invasive Watermilfoils and Implementation for Control of Eurasian X Northern Watermilfoil Hybrids (Myriophyllum spicatum X M. sibiricum)* – Mark Heilman
- *Evaluation of Lake-Wide, Early-Season Herbicide Treatments for Controlling Invasive Curlyleaf Pondweed (Potamogeton crispus) in Minnesota Lakes* – James Johnson
- *Evaluation of Herbicide Applications for Control of Eurasian Watermilfoil (Myriophyllum spicatum)* – Michelle Nault

G4: Watershed Management Success Stories

- *Use of Enhanced Stream Floodplains to Reduce Nonpoint Source Loadings to Fox Lake, Wisconsin* – Neal O'Reilly
- *Otter Lake Nutrient Reduction Initiative* – Jeff Boeckler
- *Long-Term Management of Lake Säkylän Pyhäjärvi – Field-Scale Experiments in an Agricultural Catchment* – Teija Kirkkala
- *Piecemeal Watershed Management: Tackling Large Watersheds with Small Bites* – Don Kretchmer CLM

G5: Citizen Engagement: Planning

- *Touching the Water: An Analysis of Public Water Access and Demographics in Seattle* – Tess Brandon
- *Making Clear Choices for Clean Water: A Pledge-Based Social Marketing Campaign* – Lyn Crighton
- *Refining Lake Management Options for Citizen-based Lake Planning* – Nancy Turyk
- *No Adverse Impact (NAI) Approach to Floodplain Management* – Ingrid Danler

G6: Shoreland Protection

- *A Blueprint for Success: Ten Themes for Effective Shoreland Rehabilitation Projects in Wisconsin* – Patrick Goggin
- *Using Macroinvertebrates to Evaluate Shoreland Condition in Vermont Lakes* – Jeremy Deeds
- *Determining if Maine's Shoreland Protection Act Standards are Effective at Protecting Aquatic Habitat* – Kellie Merrell
- *Lake Shoreline Development Affects Turtle In-Lake Habitat Use* – Emily Norton Henry

12:00 – 1:30 pm

Lunch

1:30 – 3:00 pm

Concurrent Session H

H1: Yahara Lakes II

- *Meeting Phosphorus Water Quality Criteria in the Yahara Watershed Using Wisconsin's Watershed Adaptive Management Option* – David Taylor
- *Yahara Watershed Project: Latest Science Helps Target Agricultural Runoff* – Patrick Sutter
- *Community Manure Digesters Controlling Phosphorus in the Yahara Watershed* – Dave Merritt
- *Addressing Long-Term Maintenance of Privately Held Stormwater Management Practices* – Jeremy Balousek

H2: Wisconsin Lakes Partnership II

- *Twenty Years of the Wisconsin Lake Partnership* – Carroll Schaal
- *Bringing Lake Education to the People: The Story of the Wisconsin Lakes Partnership Convention* – Kim Becken
- *Aquatic Invasive Species Monitoring Through the Citizen Lake Monitoring Network* – Laura Herman
- *Clean Boats, Clean Waters: Citizens and Staff Work Together to Protect Wisconsin's Lakes* – Erin McFarlane

H3: Aquatic Invasive Species IV: Perspectives

- *Changes in the Trophic Status and Lower Food Web of the Laurentian Great Lakes, 1983 – 2010* – Richard Barbiero
- *Dreissenid Mussels in the West: Continuing Challenges with Early Detection* – Chris Holdren
- *Lake-Wide Control of Curly-Leaf Pondweed and Eurasian Watermilfoil: Benefits and Risks* – Chip Welling
- *New Perspectives on Aquatic Invasive Species Spread and Impact* – M. Jake Vander Zanden

H4: Illinois Lake Management

- *Sharing our Past to Improve our Future: An Illinois Perspective on Lake Resource Quality and Nonpoint Source Pollution* – Gregg Good
- *The Use of Lake Origin to Identify Morphological and Anthropogenic Stressors that Influence Phosphorus Concentrations in Inland Lakes* – Kelly Deem
- *Analysis of In-Lake Water Quality Impacts from Watershed Scale Improvements in Central Illinois, Three Post Project Summations* – Bryan Cross
- *Nippersink Creek – A Place of Small Waters* – Randolph Stowe

H5: Citizen Engagement: Monitoring

- *Assessing the Needs of Volunteer Monitoring Programs: Recent Survey Results and Implications* – Linda Green
- *Applying Community-Based Participatory Research Approach to Water Resources Management: the Case of Lake Diefenbaker, Saskatchewan, Canada* – Jania Chilima
- *Factors Impacting Lake Behaviors in Eastern Marathon County, Wisconsin* – Kristin Floress
- *Where Psychology Meets Reality; Lakeshore Buffers – People Keep Getting in the Way; Using Lifestyle and Personality to Solve Lakeshore Problems* – Tom Girolamo

H6: Aquatic Macrophytes I – Assessment

- *Application of a Versatile Aquatic Macrophyte Integrity Index for Minnesota Lakes* – Paul Radomski
- *Using Aquatic Plant Surveys to Evaluate Lake Health and Lake Management Planning* – Reesa Evans
- *Integrating Submerged Aquatic Vegetation Mapping with Aquatic Herbicide Treatments, Lake Tohopekaliga, Florida* – Thomas McNabb
- *Innovations in Hydroacoustic and Cloud-Computing Technologies to Unveil the Mystery of Littoralscapes and Inform Links between Fish and Macrophyte Habitats* – Ray Valley

3:00 – 3:30 pm

Refreshment Break

3:30 – 5:00 pm

Concurrent Session I

I1: Yahara Lakes III

- *Role of Citizens in Implementing a Vision for the Yahara Lakes* – Jim Lorman
- *Future of the Yahara Watershed: What We Know and Don't Know* – Stephen Carpenter
- *Panel Discussion*

I2: Wisconsin Lakes Partnership III

- *Wisconsin's Lake Leaders Institute: Where Are They Now?* – Carroll Schaal
- *A Citizen-Led Effort to Achieve a Shoreland Restoration at the Wisconsin Governor's State Residence* – Patricia Cicero
- *Recipes for Success: Key Ingredients for Lake and Watershed Management Plans in Southeastern Wisconsin* – Thomas M. Slawski
- *Wisconsin's Public Inland Lake Protection and Rehabilitation Districts: An Innovative Approach to Citizen-Led Lake Management* – Jeffrey A. Thornton

I3: Aquatic Macrophytes II

- *The Aquatic Flora of New Jersey* – Chris Doyle
- *On the Doorstep: “Up-and-coming” Aquatic Invasive Plants* – Paul Skawinski
- *Using Common Soil Tests to Determine Lake Sediment Phosphorus Release and Aquatic Plant Growth* – Steve McComas

MINUTES OF MEETING OF THE FACILITIES COMMITTEE OF THE PALMDALE WATER DISTRICT, JULY 10, 2012:

A meeting of the Facilities Committee of the Palmdale Water District was held Tuesday, July 10, 2012, at 2029 East Avenue Q, Palmdale, California, in the Board Room of the District office. Chair Alvarado called the meeting to order.

1) Roll Call.

Attendance:

Facilities Committee:
Robert Alvarado, Chair
Gordon Dexter, Committee
Member

Others Present:

Dennis LaMoreaux, General Manager
Matt Knudson, Engineering Manager
Tim Moore, Facilities Manager
Randy Hardenbrook, Equipment Mechanic Spvsr.
Dawn Deans, Executive Assistant
0 members of the public

2) Adoption of Agenda.

It was moved by Committee Member Dexter, seconded by Chair Alvarado, and unanimously carried to adopt the agenda, as written.

3) Public Comments.

There were no public comments.

4) Action Items: (The Public Shall Have an Opportunity to Comment on Any Action Item as Each Item is Considered by the Committee Prior to Action Being Taken.)

4.1) Consideration and Possible Action on Approval of Minutes of Regular Meeting Held June 5, 2012.

It was moved by Committee Member Dexter, seconded by Chair Alvarado, and unanimously carried to approve the minutes of the Facilities Committee meeting held June 5, 2012, as written.

4.2) Consideration and Possible Action on Award of Contract for the Replacement of the Hydro-Pneumatic Tank Located at the 3600' Booster Station. (\$79,900.00 – Budgeted – Engineering Manager Knudson)

Engineering Manager Knudson provided an overview of the proposal received from Superior Tank Solutions for replacement of the hydro-pneumatic tank located at the 3600' booster station and the budget adjustment needed for this item, and after a brief discussion of the cost, of District staff performing a portion of the work, and of exceptions to the District's Bid Procurement Policy for repair of failing equipment, it was moved by Chair Alvarado, seconded by Committee Member Dexter, and unanimously carried to award a contract to Superior Tank Solutions in the not-to-exceed amount of \$79,900.00 for the replacement of the hydro-pneumatic tank located at the 3600' booster station, to authorize a budget adjustment for this project, and to present this item to the full Board for consideration at the July 25, 2012 Board meeting.

4.5) Consideration and Possible Action on Main Extension Reimbursement Agreement With Pulte Homes for Tract No. 49147. (No Budget Impact – Engineering Manager Knudson)

Engineering Manager Knudson provided an overview of the District's Main Extension Reimbursement Policy and the location of Tract No. 49147, and after a further discussion of the terms of the Main Extension Reimbursement Agreement, it was moved by Committee Member Dexter, seconded by Chair Alvarado, and unanimously carried to approve a Main Extension Reimbursement Agreement with Pulte Homes for Tract No. 49147 and that this item be presented to the full Board for consideration at the July 25, 2012 Board meeting.

5) Information Items.

5.1) Update on Energy Efficiency Contract With Orion Engineering Systems West. (Engineering Manager Knudson)

Engineering Manager Knudson informed the Committee that Orion Engineering Systems has completed replacing lighting fixtures for most of the interior of the office building and the Water Treatment Plant and that this work was completed prior to Southern California Edison Company's rebate deadline.

5.2) Update on Status of Repairs to Hydro-Electric Generator for Damages Caused on May 1, 2012. (Engineering Manager Knudson)

Engineering Manager Knudson informed the Committee that after several site inspections, the source of failure of the hydro-electric generator appears to be the result

of an undersized breaker in the main electrical panel relating back to the original electrical design; that a quote for replacing the generator has been received from Lee Mechanical in the amount of \$250,000.00, and staff recommends this quote be accepted; that lost revenue from down time will also be included in the insurance claim; and that if the Committee concurs, staff will proceed with a contract with Lee Mechanical as there is no impact to the District's budget after which the Committee concurred with staff's recommendation.

**5.3) Update on Monitoring of Wind Turbine Through Black & Veatch.
(Engineering Manager Knudson)**

Engineering Manager Knudson informed the Committee that the District entered into an agreement with Black & Veatch for monitoring the performance of the wind turbine; that communication with the wind turbine for reporting purposes is being coordinated; and that updates will be provided as this project progresses.

There were no additional information items to discuss.

6) Board Members' Requests for Future Agenda Items.

Committee Member Dexter requested "Presentation of the operation and maintenance of District's remote SCADA system" be placed on the next agenda.

It was then determined that "Update on status of repairs to hydro-electric generator" and "Update on Monitoring of Wind Turbine Through Black & Veatch" will also be placed on the next agenda.

There were no further requests for future agenda items.

It was then determined that the next Facilities Committee meeting will be held August 21, 2012 at 5:15 p.m.

7) Adjournment.

There being no further business to come before the Facilities Committee, the meeting was adjourned.


Chair

P A L M D A L E W A T E R D I S T R I C T
B O A R D M E M O R A N D U M

DATE: September 5, 2012 **September 12, 2012**
TO: BOARD OF DIRECTORS **Board Meeting**
FROM: Mr. Dennis D. LaMoreaux, General Manager
RE: ***AGENDA ITEM NO. 8.2(a) – REPORT OF GENERAL MANAGER –
DISTRICT VACANCIES***

All budgeted positions are currently filled with the following exceptions:

<u>Position</u>	<u>Department</u>	<u>Comment</u>
Human Resources Manager	Human Resources	Retired
Field Service Supervisor	Administrative Services	Retired
Construction Supervisor	Facilities	Retired
Senior Maintenance Mechanic	Operations	