

# Port Hueneme Water Agency

250 North Ventura Road • Port Hueneme, CA 93041 • (805) 986-6563

## PORT HUENEME WATER AGENCY BOARD OF DIRECTORS ADJOURNED REGULAR MEETING

**MAY 16, 2016**  
**4:00 PM**

**PORT HUENEME CITY HALL - CITY COUNCIL CHAMBER**  
**250 NORTH VENTURA ROAD**  
**PORT HUENEME, CA 93041**

### **AGENDA**

- 1. CALL TO ORDER, ROLL CALL**
- 2. AGENDA:** *(Amend / Approve)*
- 3. BUSINESS ITEMS:**
  - A. APPROVAL OF MINUTES**  
Action: It is recommended the Board approve the Minutes of the April 13, 2016 Adjourned Regular Meeting.
  - B. CASH DISBURSEMENTS RATIFICATION**  
Action: It is recommended the Board ratify the cash disbursements listing for the period April 8, 2016 through May 6, 2016.
  - C. BRACKISH WATER RECLAMATION DEMONSTRATION FACILITY OPERATIONAL PERFORMANCE**  
Action: It is recommended the Board receive and file this report.
  - D. WATER SUPPLY STRATEGY REPORT FROM WATER CONSULTANCY INC.**  
Action: It is recommended the Board receive and file this report.
  - E. INTRODUCE BUDGET FY 2016-2017 FOR PORT HUENEME WATER AGENCY**  
Action: It is recommended the Board receive and file this report.
- 4. BOARD MEMBER REPORTS AND COMMENTS**
- 5. NEW BUSINESS TO BE AGENDIZED**

6. **OPEN FORUM:** *(Anyone wishing to speak to the Board on any matter NOT on the Agenda may do so at this time. Please approach the podium and give your name and city of residence clearly for the record.)*

**ADJOURNMENT:** Adjourn to the next Adjourned Regular Meeting to be held Monday, June 20, 2016 at 4:00 p.m. in the City Council Chamber.

Copies of staff reports or other written documentation relating to each item of business referred to in this Agenda are available for public inspection in the Office of the City Clerk and on the City's website at [www.cityofporthueneme.org](http://www.cityofporthueneme.org). Materials received after agenda packet distributions are made available to the public on the City's website and in the City Clerk's office at the same time they are provided to the Board. The public may address any item on the Agenda by submitting a speaker card to the Clerk prior to or during the time the matter is addressed by the Board. Speaker comments are limited to three minutes.

**IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT, IF YOU NEED SPECIAL ASSISTANCE TO PARTICIPATE IN THIS MEETING, CONTACT THE OFFICE OF THE CITY CLERK AT 986-6503 OR THE CALIFORNIA RELAY SERVICE. NOTICE 48 HOURS PRIOR TO THE MEETING WILL ENABLE THE CITY TO MAKE REASONABLE ARRANGEMENTS TO ALLOW PARTICIPATION IN THIS MEETING.**

**PORT HUENEME WATER AGENCY BOARD  
ADJOURNED REGULAR MEETING**

**APRIL 13, 2016**

**MINUTES**

Chair Estomo called the meeting to order at 4:00 p.m. in the City Council Chamber at Port Hueneme City Hall, 250 North Ventura Road, Port Hueneme, California. The Agency Clerk called the roll:

**PRESENT:** Board Members Douglas A. Breeze, Keith Moore, Jonathan Sharkey; Ex-Officio Member Robert Nordahl; Chair Jim Estomo.

**ABSENT:** Vice Chair Sylvia Muñoz Schnopp

**STAFF PRESENT:** Interim Executive Director, John Baker, Karl Berger, Deputy Agency Counsel; Chris Theisen, Public Works Director; Water Operations Manager, Steven Hickox, Agency Clerk, Michele Kostenuik

**AGENDA:**

The Board had previously received copies of the Agenda.

Member Sharkey, seconded by Member Breeze, moved to approve the Agenda as amended. Motion carried 4-0 (Schnopp absent).

**BUSINESS ITEMS:**

**A. APPROVAL OF MINUTES**

Action: It is recommended the Board approve the Minutes of the March 9, 2016 Adjourned Regular Meeting.

Member Sharkey, seconded by Member Breeze, moved to approve the Minutes as presented. Motion carried 4-0 (Schnopp absent).

**B. CASH DISBURSEMENTS RATIFICATION**

Action: It is recommended the Board ratify the cash disbursements listing for the period February 27, 2016 through April 7, 2016.

Member Sharkey, seconded by Member Moore, moved to approve staff's recommendation as presented. Motion carried 4-0 (Schnopp absent).

**3A**

03/09/2016

C. BRACKISH WATER RECLAMATION DEMONSTRATION FACILITY  
- OPERATIONAL PERFORMANCE

Action: It is recommended the Board receive and file this report.

The Water Operations Manager Steve Hickox gave a report. Discussion ensued among the Board and staff.

Chair Estomo, seconded by Member Breeze, moved to receive and file report as presented. Motion carried 4-0 (Schnopp absent).

D. WATER SUPPLY STRATEGY REPORT FROM WATER  
CONSULTANCY INC.

Action: It is recommended the Board receive and file this report.

Lynn Takaichi, Principal of Water Consultancy Inc., gave a report. Discussion ensued among Board and staff.

Member Sharkey, seconded by Chair Estomo, moved to receive and file the report as presented. Motion carried 4-0 (Schnopp absent).

E. THIRD STAGE REVERSE OSMOSIS PROJECT UPDATE

Action: It is recommended the Board receive and file this report.

The Public Works Director Chris Theisen gave a report. Discussion ensued among the Board and staff.

Chair Estomo seconded by Member Moore, moved to receive and file the report as presented. Motion carried 4-0 (Schnopp absent).

F. PHWA FIVE-YEAR OPERATIONAL AUDIT

Action: It is recommended the Board receive and file this report.

Member Moore, seconded by Member Breeze, moved to receive and file the report as presented. Motion carried 4-0 (Schnopp absent).

**BOARD MEMBER REPORTS AND COMMENTS:**

**4. BOARD MEMBER REPORTS AND COMMENTS**

A. REQUEST OF MEMBER MOORE: DEVELOP A PHWA WATER  
SUPPLY BUSINESS AND FINANCIAL PLAN

Action: Member Moore recommends the Board discuss/develop a water supply business and financial plan for PHWA, and take such additional, related action that may be desirable.

Discussion ensued among Board Members and staff regarding options to begin developing the plan. City staff can start preliminary steps of creating a matrix, possibly hire a consultant to complete the plan, and form an ad hoc committee.

Member Breeze made a motion to hire a consultant. Then withdrew his motion.

Chair Estomo, seconded by Member Breeze, moved to have staff develop a matrix identifying and prioritizing tasks for the PHWA Water Supply Business and Financial Plan. Motion carried 4-0 (Schnopp absent).

**NEW BUSINESS TO BE AGENDIZED:**

No discussion.

**OPEN FORUM:**

No comments were made.

**CLOSED SESSION:**

The Deputy Agency Counsel made the following announcement:

With respect to every item of business to be discussed in Closed Session, pursuant to the California Government Code:

**6. CLOSED SESSION:**

With respect to every item of business to be discussed in Closed Session, pursuant to the California Government Code:

**A. CONFERENCE WITH REAL PROPERTY NEGOTIATORS  
(Pursuant to Government Code Section 54956.8)**

Real Property: 5751 Perkins Road, Oxnard.

Agency Negotiators: John Baker, Interim Executive Director; Karl Berger, Deputy Agency Counsel; Chris Theisen, Public Works Director; Steve Hickox, Water Operations Manager; Lynn Takaichi, Consultant.

Negotiating Parties: City of Oxnard.

Under Negotiation: Lease Price and Terms of Payment.

The Board recessed to Closed Session at 5:23 p.m. The Board reconvened following the Closed Session. The Deputy Agency Counsel announced that no reportable action was taken.

**ADJOURNMENT:**

Chair Estomo, without objection, adjourned the meeting at 5:59 p.m. to the next Adjourned Regular Meeting to be held Monday, May 16, 2016 at 4:00 p.m. in the City Council Chamber.

Respectfully submitted,

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Michele Kostenuik  
Agency Clerk

APPROVED:

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CHAIR ESTOMO

**PORT HUENEME WATER AGENCY**  
**CASH DISBURSEMENTS**  
***For the period April 8, 2016 through May 6, 2016***

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May 16, 2016

Presented are the cash disbursements issued by the Finance Dept. for the period April 8, 2016 through May 6, 2016. Shown are cash disbursements by date of occurrence and type of payment.

<b>Date</b>	<b>Type of Payment</b>	<b>Attachment</b>	<b>Amount</b>
<b>April 8, 2016 through May 6, 2016</b>			
	A/P Checks 5301-5305	A	\$232,641.09
<b>Total</b>			<b>\$232,641.09</b>

**3B**

Transactions for 4/8/2016 - 5/6/2016

Date: 5/9/2016

Vendor Name	Description	Check Date	Number	Amount
UNITED WATER CONSERVATION DISTRICT	020-0090 HUE0001	4/21/2016	5301	61,457.90
UNITED WATER CONSERVATION DISTRICT	020-0110 CBC0001	4/21/2016	5301	135.44
UNITED WATER CONSERVATION DISTRICT	020-0125 PHW0002	4/21/2016	5301	110,183.45
WATER CONSULTANCY, INC	SERVICES THRU 3/31/16	4/21/2016	5302	7,280.00
WATER CONSULTANCY, INC	SERVICES THRU 3/31/16	4/21/2016	5302	2,600.00
CITY OF OXNARD	145/6194 MAR'16	4/29/2016	5303	45,298.15
PORT HUENEME, CITY OF	MAR'16 CAP COSTS-NBVC PM	4/29/2016	5304	4,393.65
HENSLEY, MARK	APR'16 SERVICES	5/5/2016	5305	1,292.50
				<b>\$232,641.09</b>



# Port Hueneme Water Agency

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## AGENCY AGENDA STAFF REPORT

**TO:** PHWA Board

**FROM:** Chris Theisen, Public Works Director

**SUBJECT:** BRACKISH WATER RECLAMATION DEMONSTRATION FACILITY - OPERATIONAL REPORT

**DATE:** May 16, 2016

### **RECOMMENDATION:**

It is recommended the Board receive and file this report.

### **BACKGROUND/ANALYSIS:**

This report presents an update on the operational status of the Brackish Water Reclamation Demonstration Facility (BWRDF) from March 29, 2016 to April 26, 2016.

During this operational reporting period, the overall PHWA demand averaged 2.8 MGD with UWCD supplying 93 percent and CMWD supplying 7 percent. There were no interruptions of service, and the water quality delivered to each of the PHWA customers continues to meet all State and Federal regulatory standards.

The Silt Density Index (sampled twice a day) averaged 4.4 and the BWRDF was in by-pass mode during the report period. Operations staff will continue to monitor United Water Conservation District's (United) water quality to determine when this source is permissible for membrane treatment. While in by-pass mode, a blend of United water with Calleguas water will be dictated by system demand periods and source water availability to maximize our take of United water supply.

### **SUMMARY OF OPERATING COMMITTEE MEETING**

The Operating Committee Meeting scheduled for April 6, 2016 was cancelled.

**30**

**BRACKISH WATER RECLAMATION DEMONSTRATION FACILITY-  
OPERATIONAL REPORT**

**May 16, 2016**

**Page 2**

**NEXT PHWA BOARD MEETING**

The next PHWA Board meeting is scheduled for June 20, 2016 at 4:00 p.m.

**FISCAL IMPACT:**

The action, if taken as recommended, will not have a fiscal impact.

April 27, 2016

## Memorandum

To: Mr. Chris Theisen, Director of Public Works  
City of Port Hueneme

From: Lynn M. Takaichi

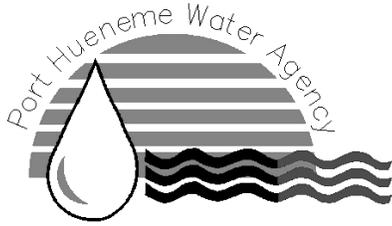
Subject: Status Report No. 8  
PHWA Water Supply Strategy Implementation  
WC-023

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This memorandum summarized activities performed from the previous Board meeting to present. This status report is organized by the tasks listed in the Task Order.

1. Attend Meetings with Other Utilities
  - Attended meeting with OH Pipeline Users on April 5.
2. Attend Meetings with Regulatory Agencies
  - None
3. Attend Meetings with PHWA Board and Committees
  - Attended PHWA Board meeting (4/13)
  - Prepared status report
4. Assist PHWA with Negotiation Assistance to Modify Existing Agreements
  - Discussed negotiation schedule with UWCD GM
5. Continue to refine PHWA Water Supply Strategy
  - No activity
6. Assist PHWA with Developing a Long Term Water Supply Strategy
  - No activity

# 3D



# Port Hueneme Water Agency

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## PHWA AGENDA STAFF REPORT

**TO:** PHWA BOARD OF DIRECTORS

**FROM:** AL BURRELL, INTERIM FINANCE DIRECTOR  
STEVE HICKOX, WATER OPERATIONS MANAGER

**SUBJECT:** PHWA PROPOSED OPERATING BUDGET FOR FY 2016-17

**DATE:** MAY 16, 2016

### **RECOMMENDATION:**

It is recommended the PHWA Board review the proposed FY 2016-17 PHWA Operating Budget, come to consensus on its content, and direct staff to prepare the Final Budget to be presented and adopted on June 20, 2016.

### **BACKGROUND/ANALYSIS:**

In summary, the FY 2016-17 PHWA budget has been developed to:

- Include \$200,000 for professional services (\$100,000 Water Consultant fees, and \$100,000 for Special Water Counsel).
- Fund the construction and acquisition cost for the Third Stage RO Project which is estimated at \$900,000 dollars.
- Fund land lease with the City of Oxnard estimated at \$85,000.
- Fund annual off-aqueduct charges of \$250,000.
- The proposed FY 2016-17 PHWA operating budget is \$4,999,559 or 19.63% less than the FY 2015-16 operating expenses budget. The major decrease in costs are the purchase of Water (\$828,000) and Contract Services (\$440,000).
- Include a take or pay surcharge of approximately \$140,000 issued by UWCD for FY 2015/16.

**3E**

**PHWA OPERATING BUDGET FOR 2016-17**  
**MAY 16, 2016**  
**PAGE 2**

**FIXED AND VARIABLE RATES (COSTS) FOR FY 2016-17**

In accordance with established procedure and methodology, the fixed and variable costs for FY 2016-17 have been calculated using the Black & Veatch Rate Model. The fixed monthly cost for each customer is based on capital expenditures through June 30, 2016, and prorated by each customer's fixed capacity allocation of facilities, less any capital contributions made by the customer.

The table below reflects proposed FY 2016-17 monthly fixed O&M Costs, Capital Costs, and Variable Rates (per acre-foot) for Municipal, Industrial and irrigation cost.

<b>Customer</b>	<b>Fixed O&amp;M Cost</b>	<b>Capital Cost</b>	<b>Variable Rate</b>	<b>Irrigation Rate</b>
COPH	\$152,665.41	-	\$692.75	\$519.78
NBVC-PH	\$ 45,421.82	-	\$692.75	\$519.78
CIBCSO	\$ 43,205.73	-	\$692.75	\$519.78
NBVC-PM	\$ 45,307.12	\$4,496.38	\$692.75	\$519.78
<b>TOTAL</b>	<b>\$286,600.08</b>	<b>\$4,496.38</b>	<b>\$692.75</b>	<b>\$519.78</b>

For comparative purposes, the following table reflects prior year (2015-16) adopted monthly Fixed O&M Costs, Capital Costs, and per acre-foot Variable Rates for Municipal/Industrial and irrigation.

<b>Customer</b>	<b>Fixed O&amp;M Cost</b>	<b>Capital Cost</b>	<b>Variable Rate</b>	<b>Irrigation Rate</b>
COPH	\$ 226,753.60	-	\$824.58	\$517.31
NBVC-PH	\$ 67,057.29	-	\$824.58	\$517.31
CIBCSO	\$ 64,295.94	-	\$824.58	\$517.31
NBVC-PM	\$ 65,617.86	\$4,393.65	\$824.58	\$517.31
<b>TOTAL</b>	<b>\$ 423,724.69</b>	<b>\$4,393.65</b>	<b>\$824.58</b>	<b>\$517.31</b>

The FY 2016-17 variable rate was decreased from \$824.58 per acre-foot to \$692.75 per acre-foot as a result of reduction in water purchased. The irrigation rate increased from \$517.31 per acre-foot to \$519.78 per acre-foot and is reflective of United's water rate and is provided solely by United.

**FISCAL IMPACT:**

The proposed FY 2016-17 PHWA Operating Budget is \$4,999,559. Operating expenses decreased approximately \$1,233,318 or 19.63% less than the Adopted FY 2015-16 Operating Budget.

**PHWA OPERATING BUDGET FOR 2016-17**

**MAY 16, 2016**

**PAGE 3**

**Attachments:**

Attachment A:	Proposed FY 2016-17 PHWA Operating Budget
Attachment B:	FY 2016-17 Water Plant Operations Budget
Attachment C:	FY 2016-17 Proposed Fixed and Variable Rate Model FY 2015-16 Adopted Fixed and Variable Rate Model
Attachment D:	PHWA Water Usage FY 2015-16
Attachment E:	PHWA Water Usage FY 2014-15

**PORT HUENEME WATER AGENCY  
PROPOSED OPERATING BUDGET  
FISCAL YEAR 2016-17**

Fund 990	ACTUAL 2014-15	MODIFIED BUDGET 2015-16	ESTIMATED JUNE 30 2015-16	Variance	PROPOSED BUDGET 2016-17
<b>REVENUE:</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2015-16</b>		
COPH Variable Revenue	1,412,176	1,957,945	1,493,564	464,381	1,508,884
COPH Fixed Revenue	833,980	1,469,225	1,469,225	(0)	1,831,985
NBVC PH Variable Revenue	373,247	513,901	379,859	134,042	391,606
NBVC PH Fixed Revenue	257,490	444,795	444,796	(1)	545,062
CIBCSD Variable Revenue	357,755	486,162	380,059	106,103	380,868
CIBCSD Fixed Revenue	233,658	414,781	414,781	(0)	518,469
NBVC PM Variable Revenue	378,421	540,584	321,876	218,708	336,525
NBVC PM Fixed Revenue	234,293	396,651	396,651	0	489,729
UWCD Irrigation Revenue	12,378	12,933	5,821	7,112	21,311
VCGP Variable Revenue	809	-	800	(800)	-
AGROMIN Variable Revenue	12,699	-	13,616	(13,616)	-
Billing Adjustment Revenue (true-up)	2,532	-	-	-	-
PHWA NBVC PM Note 3B Interest Revenue	47,706	45,900	50,120	(4,220)	50,120
Interest Revenue	-	-	-	-	-
Transfer from reserves	-	-	0	-	-
Miscellaneous Revenue	99,742	-	47,492	(47,492)	-
<b>TOTAL REVENUE</b>	<b>4,256,886</b>	<b>6,282,878</b>	<b>5,418,660</b>	<b>864,217</b>	<b>6,074,559</b>
<b>EXPENSES:</b>					
Part-Time Wages	1,750	1,000	3,000	(2,000)	3,000
Taxes-Fica Employer	43	25	75	(50)	75
Taxes - Medicare Employer	10	10	17	(7)	17
Contract Svcs-City Attorney	34,645	50,000	15,979	34,021	150,000
Contract Svcs-Outside Auditor	12,705	12,100	12,800	(700)	12,100
Contract Svcs-Misc	-	540,000	2,343	537,657	100,000
Property Insurance	23,835	35,100	31,653	3,447	31,650
Meetings	-	43,480	43,480	-	-
Conference/Travel	-	5,000	0	5,000	-
Interest Expense	47,706	45,900	50,120	(4,220)	50,120
Water Plant Expense	940,672	1,251,625	1,251,625	-	1,146,562
UWCD Water Purchase (Fixed & Variable)	1,370,740	2,280,665	1,997,864	282,801	2,228,131
CMWD Water Purchase (Fixed & Variable)	1,767,910	1,577,972	1,577,972	-	802,904
Take or Pay Penalty	-	140,000	140,000	-	140,000
UWCD Off-Aqueduct Charges	56,870	250,000	250,000	-	250,000
Land Lease	-	-	-	-	85,000
Depreciation Expense	579,359	-	-	-	-
Reserve Fund	-	50,000	50,000	-	50,000
Ammonia Analyzer Replacements	-	-	-	-	125,000
3rd Stage RO Project	-	-	-	-	900,000
Membrane Replacement Project	-	-	-	-	-
Loss on Asset Disposal	361,870	-	-	-	-
<b>TOTAL EXPENSES</b>	<b>5,198,115</b>	<b>6,282,878</b>	<b>5,426,928</b>	<b>855,949</b>	<b>6,074,559</b>
<b>NET INCOME (LOSS)</b>	<b>(941,229)</b>	<b>0</b>	<b>(8,268)</b>	<b>8,268</b>	<b>0</b>

**To Reserves:**

Unanticipated repair reserves \$50,000

**Capital Projects**

Second Pass RO \$900,000

Membrane Replacement Project \$131,197

**Operating costs budget decrease from**

FY 2015-16

**(1,233,318)****-19.630%**





## PHWA FY2016-17 (Jul 2016 - Jun 2017) FIXED WATER COST FOR EACH MEMBER

Line No.	Cost Component	Rate	Amount	Total	COPH	NBVC PH	NBVC PM	CIBCSD
<b>I. Projection of Aggregate Capital Cost</b>								
F1	Aggregate Capital Cost			\$17,766,904	9,031,463	\$2,268,765	\$2,596,374	\$3,870,302
F2	Percentage of Aggregate Capital Cost	100%		100%	50.83%	12.77%	14.61%	21.78%
<b>II. Amortization of Capital Costs</b>								
F3	Pre-Payment Credits			\$17,159,473	\$9,031,463	\$2,268,765	\$1,988,943	\$3,870,302
F4	Net Capital Costs			\$607,431	\$0	\$0	\$607,431	\$0
F5	Amortized Net Capital Costs			\$53,957	\$0	\$0	\$53,957	\$0
<b>III. Projection of UWCD BWRDF Water Purchase Costs</b>								
F6	UWCD BWRDF Water Usage as Percentage of Total UWCD Usage:		100%					
F7	BWRDF Fixed Rate:	\$33,598.87	\$403,186	\$403,186	\$208,026	\$80,818.48	\$55,630.66	\$58,711.19
F8	<b>IV. Projection of CMWD Water Purchase Costs</b>							
	CMWD Fixed Rate:	\$13,638	12	\$163,654	\$94,326	\$24,481	\$21,037	\$23,810
<b>V. Summary of Projected Capital and Fixed Operating Expenses</b>								
F9	Amortized Net Capital Costs:			\$53,957	\$0	\$0	\$53,957	\$0
F10	Fixed O&M Expense:			\$2,818,404	\$1,529,633	\$439,763	\$413,061	\$435,948
F11	CMWD Water Purchase (Fixed) Cost:			\$163,654	\$94,326	\$24,481	\$21,037	\$23,810
F12	UWCD BWRDF Water Purchase (Fixed) Cost:			\$403,186	\$208,026	\$80,818	\$55,631	\$58,711
F13	Total Annual Capital, Fixed O&M Expense and Water Purchase Cost:			\$3,439,201	\$1,831,985	\$545,062	\$543,685	\$518,469
<b>VI. Projection of Capital and Fixed Operating Costs per month</b>								
F14	PHWA Capital Cost per month:			\$4,496.38	\$0.00	\$0.00	\$4,496.38	\$0.00
F15	PHWA Fixed Operating Cost per month:			\$282,103.71	\$152,665.41	\$45,421.82	\$40,810.74	\$43,205.73
F16	Total Fixed Cost per month (Excl. Irrigation):			\$286,600.08	\$152,665.41	\$45,421.82	\$45,307.12	\$43,205.73

Notes by Line Number:

- (F1) See **PHWA Project Cost and Interest Expense through 6/30/01 spreadsheet (JPA1200)**. Based on proration of plant capacity and use of facilities. Includes annexation, facilities, Oxnard site, all contributions, engineering, admin, and tank.
- (F2) Percentages based on Line 1. Percentage indicates allocation of aggregate capital costs only.
- (F3) Pre-Payment credits represent payments made toward capital costs before amortization.
- (F4) Aggregate capital costs less pre-payment credits.
- (F5) Net Capital Costs shown on Line 4, amortized at 8.00 percent interest over 25 years for COPH and CIBCSD and 30 years for NBVC PH and NBVC PM.
- (F6) Projected UWCD BWRDF water usage as a percentage of total UWCD water usage. Used to allocate UWCD fixed charge between UWCD BWRDF water usage and UWCD irrigation water usage.
- (F7) Total based on UWCD fixed rate applied to UWCD BWRDF water usage percentage (Line 6). Allocated to members based on percentage of capacity in the OH Pipeline (22.25 cfs). COPH: 51.60%; CBC: 20.04%; NAWs: 13.08%; CIBCSD: 14.56%
- (F8) Allocated to members based on projected water usage shown on line 4 of Variable Rate Spreadsheet. Total based on CMWD fixed rate of \$ **13,637.84** per month.
- (F10) Fixed O&M expenses. Budgeted PHWA treatment plant O&M less electricity and chemicals plus insurance, audit, meetings, and legal budgeted costs. Allocated based on Design Total Potable Water Demand (5172 AFY). COPH:54.27%; CBC: 15.60%; NAWs: 14.66%; CIBCSD: 15.47%
- (F11) Total CMWD fixed costs from Line 8.
- (F12) Total UWCD fixed costs from Line 7.
- (F13) Total amortized capital, fixed O&M and water purchase costs. (Sum of lines 9 through 12)
- (F14) Amortized net capital cost, Line 5, divided by number of months, Line 8.
- (F15) Fixed O&M and fixed water purchase costs, Line 10, 11 and 12, divided by number of months, Line 8.
- (F16) Sum of Lines 14 and 15, or divide Line 13 by number of months budgeted.

**PHWA FY2016-17 (Jul 2016 - Jun 2017) VARIABLE WATER COST FOR EACH MEMBER**

Line No.	Cost Component	Rate	Amount	Total	COPH	NBVC PH	NBVC PM	CIBCSD
<b>I. Projection of Total Water and Irrigation Water Usage Requirements</b>								
V1	2015-16 Actual Domestic and Irrigation Water Use from all Sources (AF):			3,242	1,853	507	413	468
V2	Less: Estimated FY 2015-16 UWCD Irrigation Use (AF):			26				468
V3	Estimated Domestic Water Purchases (AF):			3,216	1,853	481	413	468
V4	Projected FY 2015-16 Water Purchase Requirements from all Sources (AF):			100%	57.64%	14.96%	12.85%	14.55%
V5	Percent of FY 2015-16 UWCD Irrigation Water Used:			3,779	2,178	565	486	550
V6	Projected UWCD Irrigation Water Purchase Requirements (AF):			100%	0.00%	100.00%	0.00%	0.00%
V7	Projected UWCD Irrigation Water Purchase Requirements (AF):			41	0	41	0	0
<b>II. Projection of UWCD BWRDF Water and Irrigation Water Purchases</b>								
V8	Projected UWCD BWRDF Water Usage less Irrigation Water (AF):			3,470	2,000	519	446	505
V9	Plus: Projected UWCD Irrigation Water Usage (AF)			41	0	41	0	0
V10	Projected Total UWCD Water Usage (AF)			3,511	2,000	560	446	505
<b>III. Projection of UWCD BWRDF Water Purchase Costs</b>								
V11	UWCD BWRDF Water Usage as Percentage of Total UWCD Usage:		98.83%					
V12	BWRDF Variable Rate/AF:	\$306.60	3,468	\$1,063,136	\$612,765	\$159,033	\$136,665	\$154,672
V13	BWRDF Marginal Rate/AF:	\$163.38	0	\$0	\$0	\$0	\$0	\$0
V14	BWRDF Pump Charge \$/AF:	\$213.40	3,470	\$740,498	\$426,805	\$110,770	\$95,190	\$107,733
V15	Total UWCD BWRDF Water Purchase Cost:			\$1,803,634	\$1,039,570	\$269,803	\$231,854	\$262,405
<b>IV. Projection of UWCD Irrigation Water Purchase Costs</b>								
V16	UWCD Irrigation Water Usage as Percentage of Total UWCD Usage:		1.17%					
V18	UWCD Irrigation Variable Rate/AF:	\$306.60	41	\$12,562	\$0	\$12,562	\$0	\$0
V19	UWCD Irrigation Marginal Rate/AF:	\$163.38	0	\$0	\$0	\$0	\$0	\$0
V20	UWCD Irrigation Pump Charge \$/AF:	\$213.40	41	\$8,749	\$0	\$8,749	\$0	\$0
V21	Total UWCD Irrigation Water Purchase Cost:			\$21,311	\$0	\$21,311	\$0	\$0
<b>V. Projection of CMWD Water Purchases</b>								
V22	Projected CMWD Usage (AF):			500	288	75	64	73
<b>VI. Projection of CMWD Water Purchase Costs</b>								
V23	CMWD Variable Rate/AF:	\$1,279	500	\$639,250	\$368,448	\$95,625	\$82,175	\$93,003
<b>VII. Summary of Projected Variable Operating Expenses</b>								
V24	Variable O&M Expense:			\$175,000	\$100,866	\$26,178	\$22,496	\$25,460
V25	CMWD Water Purchase Cost:			\$639,250	\$368,448	\$95,625	\$82,175	\$93,003
V26	UWCD BWRDF Water Purchase Cost:			\$1,803,634	\$1,039,570	\$269,803	\$231,854	\$262,405
V27	Total Variable O&M Expense and Water Purchase Cost:			\$2,617,884	\$1,508,884	\$391,606	\$336,525	\$380,868
<b>VIII. Projection of Variable Operating Costs per AF</b>								
V28	PHWA Variable Operating Cost per AF:			\$692.75	\$692.75	\$692.75	\$692.75	\$692.75
V29	UWCD Irrigation Water Cost per AF:			\$519.78		\$519.78		

## VARIABLE WATER COST FOR EACH MEMBER

### Notes by Line Number:

- (V1) Actual domestic and irrigation water usage from all sources as recorded by PHWA on a monthly basis.
- (V2) Estimated future UWCD irrigation water usage obtained from member.
- (V3) Line 1 minus Line 2. Estimated domestic water to be purchased by PHWA customers.
- (V4) Each member's actual water usage (Line 3) divided by the total. Used to allocate BWRDF variable O&M costs and BWRDF water purchases.
- (V5) Total Projected Water Usage (excluding brine). Allocated to members based on percentage of water usage (Line 4) for budget period.
- (V6) Estimated actual UWCD irrigation water usage for each member (Line 2) divided by the total irrigation usage.
- (V7) Total projected irrigation usage. Allocated to members based on percentage of irrigation water usage (Line 6).
- (V8) Total based on BWRDF output including brine. Allocated to members based on percentage of water usage (Line 4).
- (V9) Carried down from Line 7.
- (V10) Sum of Lines 8 and 9.
- (V11) Projected UWCD BWRDF water usage as a percentage of total UWCD water usage (Line 8/Line10). Used to allocate UWCD fixed and variable charges between UWCD BWRDF water usage and UWCD irrigation water usage.
- (V12) Total based on UWCD variable rate applied to BWRDF portion of UWCD Take-or-Pay water usage times percentage of BWRDF water usage to total UWCD usage (Line 11):  $(3532 \text{ AF} \times \text{Line 11})$ . Allocated to members based on percentage of water usage (Line 4).
- (V13) Total based on UWCD marginal rate applied to BWRDF portion of water usage in excess of UWCD Take-or-Pay. Allocated to members based on percentage of water usage (Line 4).
- (V14) Based on UWCD and GMA pumping charge charges applied to projected UWCD BWRDF water usage for each member (Line 8).
- (V15) Total UCWD variable cost, sum of Lines 12 through 14.
- (V16) Projected UWCD irrigation water usage as a percentage of total UWCD water usage (Line 9/Line10). Used to allocate UWCD fixed and variable charges between UWCD BWRDF water usage and UWCD irrigation water usage.
- (V17) Total based on UWCD fixed rate applied to UWCD irrigation water usage percentage (Line 17). Allocated to members based on percentage of irrigation water used by each member (Line 6)
- (V18) Total based on UWCD variable rate applied to UWCD irrigation water portion of UWCD Take-or-Pay usage times percentage of BWRDF irrigation water usage to total UWCD usage (Line 16):  $(3532 \text{ AF} \times \text{Line 16})$ . Allocated to members based on percentage of irrigation water usage (Line 6).
- (V19) Total based on UWCD marginal rate applied to irrigation water usage in excess of UWCD Take-or-Pay. Allocated to members based on percentage of irrigation water usage used by each member (Line 6).
- (V20) Based on UWCD and GMA pumping charges applied to projected UWCD irrigation water usage for each member (Line 7).
- (V21) Sum of Lines 17 through 20.
- (V22) Total based on difference between total water requirements (Line 5) and water available from BWRDF, less brine. Allocated to members based on percentage of water usage (Line 4).
- (V23) Total based on CMWD variable rate applied to projected CMWD usage for each member (Line 22). **\$1,278.50**
- (V24) Budgeted costs for electricity and chemicals. Allocated based on Line 4 percentages.
- (V25) Carried down from Line 23.
- (V26) Carried down from Line 15.
- (V27) Sum of Lines 24 through 26.
- (V28) Sum of variable O&M expense and variable water purchase costs (Line 28) divided by projected water usage (Line 5).
- (V29) UWCD irrigation water purchase cost (Line 21) divided by projected irrigation water usage (Line 7).

**PHWA FY2015-16 (Jul 2015 - Jun 2016) FIXED WATER COST FOR EACH MEMBER**

Line No.	Cost Component	Rate	Amount	Total	COPH	NBVC PH	NBVC PM	CIBCSD
<b>I. Projection of Aggregate Capital Cost</b>								
F1	Aggregate Capital Cost			\$17,766,904	12	\$9,031,463	\$2,268,765	\$2,596,374
F2	Percentage of Aggregate Capital Cost			100%		50.83%	12.77%	14.61%
<b>II. Amortization of Capital Costs</b>								
F3	Pre-Payment Credits			\$17,173,351		\$9,031,463	\$2,268,765	\$2,002,821
F4	Net Capital Costs			\$593,553		\$0	\$0	\$593,553
F5	Amortized Net Capital Costs			\$52,724		\$0	\$0	\$52,724
<b>III. Projection of UWCD BWRDF Water Purchase Costs</b>								
F6	UWCD BWRDF Water Usage as Percentage of Total UWCD Usage:			100%				
F7	BWRDF Fixed Rate:	\$39,388.76	\$472,665	\$472,665		\$243,874	\$94,745.46	\$65,217.16
F8	CMWD Fixed Rate:	\$13,287		\$159,447		\$89,233	\$23,421	\$24,637
<b>V. Summary of Projected Capital and Fixed Operating Expenses</b>								
F9	Amortized Net Capital Costs:			\$52,724		\$0	\$0	\$52,724
F10	Fixed O&M Expense:			\$4,399,860		\$2,387,936	\$686,521	\$644,836
F11	CMWD Water Purchase (Fixed) Cost:			\$159,447		\$89,233	\$23,421	\$24,637
F12	UWCD BWRDF Water Purchase (Fixed) Cost:			\$472,665		\$243,874	\$94,745	\$65,217
F13	Total Annual Capital, Fixed O&M Expense and Water Purchase Cost:			\$5,084,696		\$2,721,043	\$804,687	\$787,414
<b>VI. Projection of Capital and Fixed Operating Costs per month</b>								
F14	PHWA Capital Cost per month:			\$4,393.65		\$0.00	\$0.00	\$4,393.65
F15	PHWA Fixed Operating Cost per month:			\$419,331.04		\$226,753.60	\$67,057.29	\$61,224.21
F16	Total Fixed Cost per month (Excl. Irrigation):			\$423,724.69		\$226,753.60	\$67,057.29	\$65,617.86

**Notes by Line Number:**

- (F1) See PHWA Project Cost and Interest Expense through 6/30/01 spreadsheet (JPA1200). Based on proration of plant capacity and use of facilities. Includes annexation, facilities, Oxnard site, all contributions, engineering, admin, and tank.
- (F2) Percentages based on Line 1. Percentage indicates allocation of aggregate capital costs only.
- (F3) Pre-Payment credits represent payments made toward capital costs before amortization.
- (F4) Aggregate capital costs less pre-payment credits.
- (F5) Net Capital Costs shown on Line 4, amortized at 8.00 percent interest over 25 years for COPH and CIBCSD and 30 years for NBVC PH and NBVC PM.
- (F6) Projected UWCD BWRDF water usage as a percentage of total UWCD water usage. Used to allocate UWCD fixed charge between UWCD BWRDF water usage and UWCD irrigation water usage.
- (F7) Total based on UWCD fixed rate applied to UWCD BWRDF water usage percentage (Line 6). Allocated to members based on percentage of capacity in the OH Pipeline (22.25 cfs). COPH: 51.60%; CBC: 20.04%; NAWs: 13.08%; CIBCSD: 14.56%
- (F8) Allocated to members based on projected water usage shown on line 4 of Variable Rate Spreadsheet. Total based on CMWD fixed rate of \$ 13,287.28 per month.
- (F10) Fixed O&M expenses. Budgeted PHWA treatment plant O&M less electricity and chemicals plus insurance, audit, meetings, and legal budgeted costs. Allocated based on Design Total Potable Water Demand (5172 AFY). COPH:54.27%; CBC: 15.60%; NAWs: 14.66%; CIBCSD: 15.47%
- (F11) Total CMWD fixed costs from Line 8.
- (F12) Total UWCD fixed costs from Line 7.
- (F13) Total amortized capital, fixed O&M and water purchase costs. (Sum of lines 9 through 12)
- (F14) Amortized net capital cost, Line 5, divided by number of months, Line 8.
- (F15) Fixed O&M and fixed water purchase costs, Line 10, 11 and 12, divided by number of months, Line 8.
- (F16) Sum of lines 14 and 15, or divide Line 13 by number of months budgeted.

PHWA FY2015-16 (Jul 2015 - Jun 2016) VARIABLE WATER COST FOR EACH MEMBER

Line No.	Cost Component	Rate	Amount	Total	COPH	NBVC PH	NBVC PM	CIBCS D
<b>I. Projection of Total Water and Irrigation Water Usage Requirements</b>								
V1	2014-15 Actual Domestic and Irrigation Water Use from all Sources (AF):			3,731	2,074	568	573	515
V2	Less: Estimated FY 2014-15 UWCD Irrigation Use (AF):			24		24		
V3	Estimated Domestic Water Purchases (AF):			3,707	2,074	544	573	515
V4	Percent of Actual 2014-15 Water Used:			100%	55.96%	14.69%	15.45%	13.90%
V5	Projected FY 2014-15 Water Purchase Requirements from all Sources (AF):			4,255	2,381	625	657	591
V6	Percent of FY 2014-15 UWCD Irrigation Water Used:			100%	0.00%	100.00%	0.00%	0.00%
V7	Projected UWCD Irrigation Water Purchase Requirements (AF):			25	0	25	0	0
<b>III. Projection of UWCD BWRDF Water and Irrigation Water Purchases</b>								
V8	Projected UWCD BWRDF Water Usage less Irrigation Water (AF):			3,470	1,942	510	536	482
V9	Plus: Projected UWCD Irrigation Water Usage (AF)			25	0	25	0	0
V10	Projected Total UWCD Water Usage (AF)			3,495	1,942	535	536	482
<b>III. Projection of UWCD BWRDF Water Purchase Costs</b>								
V11	UWCD BWRDF Water Usage as Percentage of Total UWCD Usage:		99.28%					
V12	BWRDF Variable Rate/AF:	\$311.78	3,467	\$1,080,941	\$604,936	\$158,777	\$167,021	\$150,207
V13	BWRDF Marginal Rate/AF:	\$163.38	0	\$0	\$0	\$0	\$0	\$0
V14	BWRDF Pump Charge \$/AF:	\$205.80	3,470	\$714,126	\$399,652	\$104,897	\$110,343	\$99,234
V15	Total UWCD BWRDF Water Purchase Cost:			\$1,795,067	\$1,004,588	\$263,674	\$277,364	\$249,441
<b>IV. Projection of UWCD Irrigation Water Purchase Costs</b>								
V16	UWCD Irrigation Water Usage as Percentage of Total UWCD Usage:		0.72%					
V18	UWCD Irrigation Variable Rate/AF:	\$311.78	25	\$7,788	\$0	\$7,788	\$0	\$0
V19	UWCD Irrigation Marginal Rate/AF:	\$163.38	0	\$0	\$0	\$0	\$0	\$0
V20	UWCD Irrigation Pump Charge \$/AF:	\$205.80	25	\$5,145	\$0	\$5,145	\$0	\$0
V21	Total UWCD Irrigation Water Purchase Cost:			\$12,933	\$0	\$12,933	\$0	\$0
<b>V. Projection of CMWD Water Purchases</b>								
V22	Projected CMWD Usage (AF):			1,150	644	169	178	160
<b>VI. Projection of CMWD Water Purchase Costs</b>								
V23	CMWD Variable Rate/AF:	\$1,234	1,150	\$1,418,525	\$793,860	\$208,364	\$219,183	\$197,117
<b>VII. Summary of Projected Variable Operating Expenses</b>								
V24	Variable O&M Expense:			\$295,000	\$165,093	\$43,332	\$45,582	\$40,993
V25	CMWD Water Purchase Cost:			\$1,418,525	\$793,860	\$208,364	\$219,183	\$197,117
V26	UWCD BWRDF Water Purchase Cost:			\$1,795,067	\$1,004,588	\$263,674	\$277,364	\$249,441
V27	Total Variable O&M Expense and Water Purchase Cost:			\$3,508,592	\$1,963,541	\$515,370	\$542,129	\$487,551
<b>VIII. Projection of Variable Operating Costs per AF</b>								
V28	PHWA Variable Operating Cost per AF:			\$824.58	\$624.58	\$824.58	\$824.58	\$824.58
V29	UWCD Irrigation Water Cost per AF:			\$517.31		\$517.31		

## VARIABLE WATER COST FOR EACH MEMBER

### Notes by Line Number:

- (V1) Actual domestic and irrigation water usage from all sources as recorded by PHWA on a monthly basis.
- (V2) Estimated future UWCD irrigation water usage obtained from member.
- (V3) Line 1 minus Line 2. Estimated domestic water to be purchased by PHWA customers.
- (V4) Each member's actual water usage (Line 3), divided by the total. Used to allocate BWRDF variable O&M costs and BWRDF water purchases.
- (V5) Total Projected Water Usage (excluding brine). Allocated to members based on percentage of water usage (Line 4) for budget period.
- (V6) Estimated actual UWCD irrigation water usage for each member (Line 2) divided by the total irrigation usage.
- (V7) Total projected irrigation usage. Allocated to members based on percentage of irrigation water usage (Line 6).
- (V8) Total based on BWRDF output including brine. Allocated to members based on percentage of water usage (Line 4).
- (V9) Carried down from Line 7.
- (V10) Sum of Lines 8 and 9.
- (V11) Projected UWCD BWRDF water usage as a percentage of total UWCD water usage (Line 8/Line 10). Used to allocate UWCD fixed and variable charges between UWCD BWRDF water usage and UWCD irrigation water usage.
- (V12) Total based on UWCD variable rate applied to BWRDF portion of UWCD Take-or-Pay water usage times percentage of BWRDF water usage to total UWCD usage (Line 11):  $(3532 \text{ AF} \times \text{Line 11})$ . Allocated to members based on percentage of water usage (Line 4).
- (V13) Total based on UWCD marginal rate applied to BWRDF portion of water usage in excess of UWCD Take-or-Pay. Allocated to members based on percentage of water usage (Line 4).
- (V14) Based on UWCD and GMA pumping charge charges applied to projected UWCD BWRDF water usage for each member (Line 8).
- (V15) Total UCWD variable cost, sum of lines 12 through 14.
- (V16) Projected UWCD irrigation water usage as a percentage of total UWCD water usage (Line 9/Line 10). Used to allocate UWCD fixed and variable charges between UWCD BWRDF water usage and UWCD irrigation water usage.
- (V17) Total based on UWCD fixed rate applied to UWCD irrigation water usage percentage (Line 17). Allocated to members based on percentage of irrigation water used by each member (Line 6)
- (V18) Total based on UWCD variable rate applied to UWCD irrigation water portion of UWCD Take-or-Pay usage times percentage of BWRDF irrigation water usage to total UWCD usage (Line 16):  $(3532 \text{ AF} \times \text{Line 16})$ . Allocated to members based on percentage of irrigation water usage (Line 6).
- (V19) Total based on UWCD marginal rate applied to irrigation water usage in excess of UWCD Take-or-Pay. Allocated to members based on percentage of irrigation water usage used by each member (Line 6).
- (V20) Based on UWCD and GMA pumping charges applied to projected UWCD irrigation water usage for each member (Line 7).
- (V21) Sum of Lines 17 through 20.
- (V22) Total based on difference between total water requirements (Line 5) and water available from BWRDF, less brine. Allocated to members based on percentage of water usage (Line 4).
- (V23) Total based on CMWD variable rate applied to projected CMWD usage for each member (Line 22). **\$1,233.50**
- (V24) Budgeted costs for electricity and chemicals. Allocated based on Line 4 percentages.
- (V25) Carried down from Line 23.
- (V26) Carried down from Line 15.
- (V27) Sum of Lines 24 through 26.
- (V28) Sum of variable O&M expense and variable water purchase costs (Line 28) divided by projected water usage (Line 5).
- (V29) UWCD irrigation water purchase cost (Line 21) divided by projected irrigation water usage (Line 7).

PORT HUENEME WATER AGENCY  
 PIPELINE WATER  
 USAGE BY MONTH  
 May 2015 through April 2016

CUSTOMER	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APRIL	TOTAL AF USAGE
CITY OF PORT HUENEME	167.52	156.55	176.99	156.43	162.22	165.2	150.75	171.35	114.86	135.39	129.17	149.26	1,835.69
CIBCSO	42.57	39.91	47.24	40.79	39.72	40.57	36.47	42.43	29.37	35.5	34.57	38.71	467.85
NBVC - PH	50.66	43.96	36.34	49	40.02	38.29	36.2	37.08	36.38	34.34	38.84	39.93	481.04
NBVC - PM	46.84	40.88	40.3	34.3	36.01	35.06	32.03	35.49	23.65	27.34	29.42	32.06	413.38
VCGP	0.12	0.12	0.1	0.15	0.08	0.08	0.08	0.07	0.04	0.05	0.08	0.08	1.05
Agronin	1.63	1.56	1.5	1.92	1.22	1.58	2.74	1.11	0.36	1.08	0.91	1.13	16.74
TOTAL	309.34	282.98	302.47	282.59	279.27	280.78	258.27	287.53	204.66	233.7	232.99	261.17	3,215.75
NBVC Direct Purchase	2	9.1	2.07	1.38	1.62	1.58	0.66	0.39	0.01	0.46	0.27	6.45	25.99

