



\* Berkley \* Beverly Hills \* Bingham Farms \* Birmingham  
\* Clawson \* Huntington Woods \* Lathrup Village \* Pleasant Ridge  
\* Royal Oak \* Southfield \* Southfield Township

## AGENDA

Regular Meeting – Wednesday, June 8, 2016 – 8:30 a.m.

**[Oak Park City Hall, 14000 Oak Park Blvd.](#)**

1. Meeting Called to Order
2. Roll Call & Recognition of Visitors
3. Approval of Agenda
4. Approval of Meeting Minutes – Regular Meeting – May 11, 2016
5. Approval of Warrants – WA-770
6. **ADMINISTRATIVE REPORTS**
  - A. Public Hearing – 2016/17 Budget
  - B. Budget – 2016/17
  - C. Water Service Rates – 2016/17
  - D. Budget Approval – 2016/17
  - E. GLWA Issues
  - F. Organization Meeting & Election of Officers
  - G. Liability and Property Insurance
  - H. Quarterly Report – April 2016
  - I. Investments – January 1, 2016 Through March 31, 2016
  - J. Quarterly Legal Report

- K. General Counsel Evaluation
- L. Lead and Copper Testing
- M. Water Residential Affordability Plan (Wrap)
- N. Workers' Compensation Insurance

**7. ITEMS NOT ON AGENDA**

**8. MONTHLY REPORTS**

- A. Water Consumption Report – May 2016
- B. Budget Analysis – May 2016
- C. Budget Analysis – July 2015-May 2016
- D. Water Samples – May 2016
- E. Precipitation – Inches (Webster Pumping Station)

*Notice: The Southeastern Oakland County Water Authority will provide necessary, reasonable auxiliary aids and services, such as signers, for the hearing impaired, or audiotapes of printed materials being considered at the meeting to individuals with disabilities. All such requests must be made at least five days prior to said meeting. Individuals with disabilities requiring auxiliary aids or services should contact the Southeastern Oakland County Water Authority by writing or calling: General Manager's Office, 3910 W. Webster Road, Royal Oak, MI 48073; (248) 288-5150.*

# SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY

## Regular Meeting – May 11, 2016

### Table of Contents

Agenda Approved as Submitted –	10363
<u>MINUTES</u>	
Meeting Minutes – Regular Meeting – April 13, 2016 – Approved –	10364
<u>WARRANTS</u>	
Warrant No. WA-769 – Approved –	10365
<u>ADMINISTRATIVE REPORTS</u>	
Letter in Support of GLWA Letter Regarding Highland Park – Approved –	10366
Water Residential Affordability Plan (WRAP) – Received and Filed –	10367
Representatives to Board of Trustees – 2016/17 – Received and Filed –	10368
Notice of Public Hearing – Budget – 2016/17 – Adopted –	10369
Salary and Benefit Adjustments – Recommendations Approved –	10370
General Manager Evaluation – Report Received and Filed –	10371
Meeting Adjourned	10372

MINUTES OF THE REGULAR MEETING  
OF THE  
SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY

Wednesday, May 11, 2016 – Village of Bingham Farms

The meeting was called to order at 8:30 a.m. by Mr. Harry Drinkwine, Chair.

<u>Present</u>	<u>Votes</u>	<u>Municipality</u>
D. Schueller	1	Berkley
*C. Wilson	1	Beverly Hills
D. Warren	1	Bingham Farms
P. O'Meara	3	Birmingham
*M. Baumgarten	1	Lathrup Village
S. Pietrzak	1	Pleasant Ridge
G. Rassel	7	Royal Oak
L. Schultz	13	Southfield
R. Walsh	<u>1</u>	Southfield Township
TOTAL	30	

Absent

C. Galed	1	Huntington Woods
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\*Mr. Wilson, representative from the Village of Beverly Hills (1 vote) arrived at 8:33 am. Mr. Baumgarten from Lathrup Village arrived at 8:36 am.

Also Present

J. A. McKeen, General Manager  
R. Jackovich, Operations Manager  
K. Bever, Executive Assistant  
R. Davis, General Counsel  
B. Daddow, GLWA Board Chair  
J. Nash, Water Resources Commissioner

Mr. Daddow, GLWA Board Chair and Mr. Nash, Water Resources Commissioner attended the May SOCWA Board meeting to discuss the activities of the GLWA Board and to answer questions from the members of the Board.

-10363-

Motion by Mr. G. Rassel, supported by Mr. D. Schueller:

That the agenda be approved as submitted.

Yeas: Schueller, Wilson, Warren, O'Meara, Drinkwine, Baumgarten, Pietrzak, Rassel, Schultz, Walsh (30 votes)

Nays: None

Absent: Galed (1 vote)

**Motion carried.**

-10364-

Motion by Mrs. D. Warren, supported by Mr. R. Walsh:

That the April 13, 2016 Regular Meeting minutes be approved as submitted.

Yeas: Schueller, Wilson, Warren, O'Meara, Drinkwine, Baumgarten, Pietrzak, Rassel, Schultz, Walsh (30 votes)

Nays: None

Absent: Galed (1 vote)

**Motion carried.**

-10365-

Motion by Mr. G. Rassel, supported by Mr. R. Walsh:

That Warrant No. WA-769 in the amount of \$1,922,052.17 be approved and payments authorized.

Yeas: Schueller, Wilson, Warren, O'Meara, Drinkwine, Baumgarten, Pietrzak, Rassel, Schultz, Walsh (30 votes)

Nays: None

Absent: Galed (1 vote)

**Motion carried.**

-10366-

Motion by Mr. G. Rassel, supported by Mr. C. Wilson:

That the Board approves the attached letter to Governor Snyder regarding Highland Park.

Yeas: Schueller, Wilson, Warren, O'Meara, Drinkwine, Baumgarten, Pietrzak, Rassel,  
Schultz, Walsh (30 votes)

Nays: None

Absent: Galed (1 vote)

**Motion carried.**

-10367-

Motion by Mr. D. Schueller, supported by Mr. G. Rassel:

That the report on the Water Residential Affordability Plan (WRAP) be received and filed.

Yeas: Schueller, Wilson, Warren, O'Meara, Drinkwine, Baumgarten, Pietrzak, Rassel,  
Schultz, Walsh (30 votes)

Nays: None

Absent: Galed (1 vote)

**Motion carried.**

-10368-

Motion by Mr. P. O'Meara, supported by Mr. G. Rassel:

That the report requesting that each municipality, by resolution, appoint a representative and an alternate representative to serve on the Board of Trustees for the fiscal year beginning July 1, 2016 and forward a certified copy of the resolution to SOCWA be received and filed.

Yeas: Schueller, Wilson, Warren, O'Meara, Drinkwine, Baumgarten, Pietrzak, Rassel,  
Schultz, Walsh (30 votes)

Nays: None

Absent: Galed (1 vote)

**Motion carried.**

-10369-

Motion by Mr. P. O'Meara, supported by Mr. R. Walsh:

That the attached resolution be adopted, setting the date, time and place of the Public Hearing on the Water Authority Budget for the fiscal year beginning July 1, 2016.

Yeas: Schueller, Wilson, Warren, O'Meara, Drinkwine, Baumgarten, Pietrzak, Rassel, Schultz, Walsh (30 votes)

Nays: None

Absent: Galed (1 vote)

**Motion carried.**

-10370-

Motion by Mr. R. Walsh, supported by Mr. S. Pietrzak:

That the recommendations from the Advisory Committee regarding administrative staff salary and benefits be approved by the Board:

1. Blue Cross (PPO Silver) health insurance co-pay changes from 20% co-pay to 30%.
2. Increase employee contribution to health insurance from 10% of premium to 12.5% of premium.
3. SOCWA will no longer be compliant with the "hard cap" limits of PA 152.
4. A 2.5% salary increase for all employees.
5. Increase employee contribution to the MERS DB pension from 5% to 6%.
6. No other benefit changes.
7. Perform a compensation study during 2016/17.

Yeas: Schueller, Wilson, Warren, O'Meara, Drinkwine, Baumgarten, Pietrzak, Rassel, Schultz, Walsh (30 votes)

Nays: None

Absent: Galed (1 vote)

**Motion carried.**

-10371-

Motion by Mr. D. Schueller, supported by Mrs. L. Schultz:

That the General Manager's evaluation for 2016/17 be received and filed.

Yeas: Schueller, Wilson, Warren, O'Meara, Drinkwine, Baumgarten, Pietrzak, Rassel,  
Schultz, Walsh (30 votes)

Nays: None

Absent: Galed (1 vote)

**Motion carried.**

-10372-

Motion by Mr. D. Schueller, supported by Mrs. L. Schultz:

That the meeting be adjourned.

Yeas: Schueller, Wilson, Warren, O'Meara, Drinkwine, Baumgarten, Pietrzak, Rassel,  
Schultz, Walsh (30 votes)

Nays: None

Absent: Galed (1 vote)

**Motion carried**

The meeting was adjourned at 9:38 a.m.

APPROVED: \_\_\_\_\_  
Chair

\_\_\_\_\_  
Secretary



WA-770		SOCWA		CHECKS CUT FOR THE MONTH OF:	
CHECK		MAY 2016		PAYEE	
Account: 1009		AMOUNT		PURPOSE	
052272	CK B400	220.14	Karen Bever	220.14	Reimburse Petty Cash
052273	CK B180	27.74	Batteries Plus	27.74	Supplies
052274	CK C260	810.09	CDW-G	810.09	Maintenance of Computer Hardware
052275	CK C790	15.00	Cox & Winfree Tire Inc.	15.00	Maintenance of Vehicles
052276	CK C818	100.00	Cranbrook House and Garden Auxiliary	100.00	Webster Garden - Flower Fund
052277	CK D238	929.81	Davis Listman	929.81	Legal Services
052278	CK D260	60.42	Delwood Supply Company	60.42	Maintenance of Property and Grounds
052279	CK G760	62.10	Grainger	62.10	Safety Supplies
052280	CK H780	71.00	The Home Depot	71.00	Maintenance of Building
052281	CK M226	105.00	Maple Press	105.00	Gas Tickets
052282	CK O300	203.52	Office Depot	203.52	Office Supplies
052283	CK R897	2,077.60	City of Royal Oak	2,077.60	Maintenance of Property and Grounds - Sidewalks
052284	CK S833	429.15	Standard Insurance Company	429.15	Employee Life Insurance
052285	CK V335	80.02	Verizon Wireless	80.02	Cell Phone Service
052286	CK G780	1,715,121.13	Great Lakes Water Authority	1,715,121.13	Purchase Water Supply
052287	CK A570	286.22	Applied Imaging	286.22	Copier Maintenance
052288	CK A882	212.48	AT & T	212.48	Phone Service
052289	CK D260	141.51	Delwood Supply Company	141.51	Maintenance of Meters
052290	CK D290	916.26	DTE	916.26	Electric Service
052291	CK D291	1,696.06	DTE	1,696.06	Electric Service
052292	CK H250	688.00	HD Supply Waterworks, LTD.	688.00	Maintenance of Equipment
052293	CK H780	61.95	The Home Depot	61.95	Maintenance of Property and Grounds
052294	CK O513	84.68	O'Reilly Auto Parts	84.68	Maintenance of Vehicles
052295	CK S795	427.98	Southfield Muffler	427.98	Maintenance of Vehicles
052296	CK W350	144.46	Weingartz Supply Company	144.46	Maintenance of Property and Grounds
052297	CK M342	1,663.12	MERS HCSP	1,663.12	Employee Healthcare Savings Program
052298	CK M343	66.34	MERS 457	66.34	Deferred Compensation
052299	CK U890	420.00	UWA Local 413	420.00	Union Dues
052300	CK V325	222.00	Vantagepoint Transfer Agents	222.00	Deferred Compensation
052301	CK V327	1,848.77	Vantagepoint Transfer Agents 457-301046	1,848.77	Deferred Compensation
052302	CK M340	505.06	MERS of Michigan	505.06	Defined Contribution
052303	CK A350	74.88	Airgas Great Lakes	74.88	Supplies
052304	CK C760	1,060.65	Consumers Energy	1,060.65	Gas Service
052305	CK D240	299.22	Lillian Dean	299.22	Public Education
052306	CK D290	39.97	DTE	39.97	Electric Service
052307	CK D780	23.58	Downriver Refrigeration Supply	23.58	Maintenance of Equipment
052308	CK D850	23.76	Durst Lumber Company	23.76	Maintenance of Property and Grounds
052309	CK H375	56.40	Harbor Freight Tools	56.40	Tools





WA-770	SOCWA CHECKS CUT FOR THE MONTH OF: MAY 2016		
CHECK	PAYEE	AMOUNT	PURPOSE
I HEREBY CERTIFY THAT I HAVE EXAMINED THE INVOICES COVERED BY THE ABOVE VOUCHERS FOR RECEIPT OF MATERIALS OR SERVICES RENDERED AND THAT THE PRICES AND COMPUTATIONS ARE CORRECT.			
	Treasurer		General Manager
	The payments listed above were presented to		
	The Board of Trustees and were reviewed with no		
	objection on June 8, 2016		Secretary

June 3, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Public Hearing - 2015/16 Budget

Board Members:

Attached is a copy of a legal notice that was published in The Daily Tribune and The Macomb Daily on Wednesday, June 1, 2016 regarding the Public Hearing on the Water Authority Budget for 2016/17.

The following procedure is recommended for conducting the Public Hearing on the proposed Budget:

- 1) Chairman should declare public hearing on proposed budget open.
- 2) Chairman should recognize any persons present to be heard or any objections to proposed budget.
- 3) Chairman should close public hearing on proposed budget.

This report is submitted for Board information.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

JAM/kb

Suggested Resolution: "That the Chairman declare the public hearing on the proposed Budget open, any persons present that wish to be heard should be recognized and heard, and the Chairman should declare the public hearing closed."

SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY

LEGAL NOTICE

PUBLIC HEARING - BUDGET – 2016/17

Notice is hereby given that the Southeastern Oakland County Water Authority will hold a Public Hearing on Wednesday, June 8, 2016, at 8:30 a.m. at the Oak Park City Hall, 14000 Oak Park Blvd., for the purpose of reviewing the proposed Budget for the Southeastern Oakland County Water Authority.

A copy of said Budget is available for public inspection at the office of the Authority, 3910 W. Webster Road, Royal Oak, Michigan.

SOUTHEASTERN OAKLAND COUNTY  
WATER AUTHORITY

C. Galed  
Secretary-Board of Trustees

Published in The Daily Tribune and  
The Macomb Daily - Wednesday, June 1, 2016.

# SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY NOTICE PUBLIC HEARING BUDGET - 2016/17 Notice is hereby given...

**Source: The Daily Tribune**

**Category: Events & Notices » Legal & Public Notices**

<http://dailytribune.kaango.com/ads/viewad?adid=24640393>

#### Ad Details:

Ad ID:	24640393
Created:	Jun 1, 2016
Expires:	Jun 1, 2016

SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY NOTICE PUBLIC HEARING BUDGET - 2016/17 Notice is hereby given that the Southeastern Oakland County Water Authority will hold a Public Hearing on Wednesday, June 8, 2016 at 8:30 a.m. at the Oak Park City Hall, 14000 Oak Park Blvd., for the purpose of reviewing the proposed Budget for the Southeastern Oakland County Water Authority. A copy of said Budget is available for public inspection at the office of the Authority, 3910 W. Webster Road, Royal Oak, Michigan. SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY C. Galed Secretary Board of Trustees DT 6/1/2016

# SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY NOTICE PUBLIC HEARING BUDGET - 2016/17 Notice is hereby given...

**Source: The Daily Tribune**

**Category: Events & Notices » Legal & Public Notices**

<http://macombdaily.kaango.com/ads/viewad?adid=24640393>

#### Ad Details:

Ad ID:	24640393
Created:	Jun 1, 2016
Expires:	Jun 1, 2016

SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY NOTICE PUBLIC HEARING BUDGET - 2016/17 Notice is hereby given that the Southeastern Oakland County Water Authority will hold a Public Hearing on Wednesday, June 8, 2016 at 8:30 a.m. at the Oak Park City Hall, 14000 Oak Park Blvd., for the purpose of reviewing the proposed Budget for the Southeastern Oakland County Water Authority. A copy of said Budget is available for public inspection at the office of the Authority, 3910 W. Webster Road, Royal Oak, Michigan. SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY C. Galed Secretary Board of Trustees DT 6/1/2016



May 31, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Budget – 2016/17

Board Members:

The proposed 2016/17 budget was distributed at the May Board meeting. I will be presenting the highlights of the proposed Budget at the June Board meeting. In the following agenda items, I will be asking for Board approval of the budget and the rates proposed in the budget.

Respectfully submitted,

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Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: None

May 18, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Water Service Rates – 2016/17

Board Members:

It is recommended that the Board adopt the water services rates contained in the budget for 2016/17. The rates are composed of a monthly fixed charge plus a commodity rate per thousand cubic feet, are summarized in the table below:

	Commodity Rate for 2016/17	Commodity Rate for 2015/16	Change
SOCWA Members	\$15.13	\$14.83	+\$0.30
Bloomfield Hills	\$26.67	\$26.15	+\$0.52
Bloomfield Twp.	\$26.67	\$26.15	+\$0.52

Municipality	Monthly Fixed Charge
Berkley	\$ 6,668
Beverly Hills	\$ 5,533
Bingham Farms	\$ 1,429
Birmingham	\$15,829
Clawson	\$ 5,225
Huntington Woods	\$ 3,194
Lathrup Village	\$ 2,298
Pleasant Ridge	\$ 1,527
Royal Oak	\$35,119
Southfield	\$62,281
Detroit Zoo	\$ 2,003
Rackham Golf Course	\$ 154
Bloomfield Hills	\$13,259
Bloomfield Twp.	\$56,297

Respectfully submitted,

\_\_\_\_\_  
Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: “That the Board adopt water service rates described above for the 2016/17.”

June 3, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Budget Approval – 2016/17

Board Members:

Attached is a proposed resolution for adoption of the 2016/17 Budget. No changes have been made to the proposed budget that was submitted to the Board in May 2016.

It is recommended that the Board of Trustees adopt the attached resolution.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

JAM/kb

Suggested Resolution: “That the attached resolution which adopts the Budget for the fiscal year 2016/17 be approved.”

SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY

PROPOSED RESOLUTION

BUDGET - 2016/17

WHEREAS, this Board is required to adopt an annual budget for the fiscal year 2016/17, which budget will be effective July 1, 2016, and

WHEREAS, a notice has been published of a public hearing on the budget in compliance with the provisions of Public Act No. 43 of the Acts of the State Legislature of 1963, and

WHEREAS, a public hearing on the budget was held on June 8, 2016, at 8:30 a.m. at the Oak Park City Hall, 14000 Oak Park Blvd., Oak Park, Michigan,

NOW THEREFORE BE IT RESOLVED, that the budget for the fiscal year 2016/17 be adopted in the following form:

SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY  
 BUDGET  
July 1, 2016 Through June 30, 2017

<b><u>ESTIMATED REVENUES</u></b>		
Sale of Water	\$16,951,000	
Sale of Water - Others	8,347,000	
Rentals	114,800	
Water Analysis-Laboratory & Miscellaneous	10,000	
Interest on Investments	<u>25,000</u>	\$25,447,800
<b><u>ESTIMATED EXPENSES</u></b>		
Source of Supply	\$21,984,000	
Pump Station Operations	1,000,750	
Meters & Mains	150,000	
Administrative & General	<u>884,700</u>	\$24,019,450
		\$1,428,350
Capital Improvements		<u>(980,000)</u>
Working Capital Generated		\$448,350

June 1, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: GLWA Issues

Board Members:

This report is intended to update the Board on the GLWA issues that have been discussed at recent Board meetings.

#### Rates for 2017/18

The GLWA Board approved the budgets and capital improvement programs for 2016/17 and 2017/18 and the customer charges for 2016/17 at their meeting on May 25. There were no changes made to the customer charges. The customer charges and budgets were approved by 5-1 votes with Brian Baker, the Representative from Macomb County. Mr. Baker's position is that the 2016/17 budget, which is based on a 4% increase from the 2015/16 budget, is too conservative and fails to incorporate many cost saving measures that the GLWA has instituted. GLWA staff was reluctant to recognize these potential savings in their budget but instead proposed to develop a rate stabilization fund that would be funded as these savings materialize. This rate stabilization fund would be used in 2017/18 to help offset the loss of Genesee County as a water customer. Mr. Daddow continues to be concerned about the large accumulated deficit in GLWA's water fund, the lack of audited financial statements for the year ending June 30, 2015 and the lack of financial statements since June 30, 2015 and was reluctant to approve lower rates given that level of uncertainty.

#### GLWA Board

Two changes have occurred with members of the GLWA Board. City of Detroit representative Ike McKinnon, who is retiring from his position with the City of Detroit, has been replaced by Freman Hendrix, who is a former Deputy Mayor of Detroit under Mayor Bing. Mr. Ed Hood, who represented the customer communities outside of Wayne, Oakland and Macomb Counties resigned as of the May 25 Board meeting. The replacement for Mr. Hood has not yet been named.

At the May 25 Board meeting, two 3-3 votes occurred which could have significant implications for the future of the GLWA. In both cases, the Wayne County representative joined with the 2 Detroit representatives to defeat GLWA staff recommendations. The first issue was a staff proposed 2 year contract with Bart Foster, the long tenured rate consultant for DWSD and GLWA. The Board members voting no would have preferred to bid out the consulting services provided by Mr. Foster. The GLWA staff position, which I completely endorse, is that Mr. Foster is a critical part of their finance team and that he provides a host of services for GLWA, including supporting the customer outreach effort, which cannot be easily replaced. The work done by Mr. Foster is especially critical as the GLWA is preparing for a massive bond refinancing this summer.

The second issue was the staff recommendation to select Citi Group as the lead underwriter for the upcoming bond refinancing. The Board members voting no had concerns over the lack of City of Detroit representation on the team that interviewed the prospective underwriters and the criteria used by this team to make their selection.

I also served as one of two customer representatives on a panel responsible for recommending an underwriter for the upcoming GLWA bond offerings. The other members of the panel were Marina Neumaier, Finance Director of Northville Twp., Nickie Bateson, GLWA CFO, Jon Wheatley, GLWA Public Finance Manager and Kari Blanchett, a consultant from PFM, the financial advisor for GLWA. This panel reviewed RFP responses from 14 firms, interviewed 5 of those firms and recommended a finalist to the GLWA Audit Committee and Board. The panel was in strong agreement both about the firms that were selected as finalists, the firms that were not selected as finalists and the recommendation of Citi Group as the lead underwriter.

The 3-3 votes resulted in no action on either of these two critical issues. It is unclear what GLWA plans to do to address these 2 issues. I am working with a number of GLWA customers to support the two GLWA staff recommendations so that the bond refinancing can proceed as expeditiously as possible.

#### SOCWA Involvement in GLWA Activities

SOCWA staff has been involved in several activities at the request of GLWA management:

I served as the customer representative on an interview panel that recommended final candidates for the public affairs officer position being hired by GLWA. This position will direct both internal and external communications for GLWA. The panel recommended 3 candidates for final interviews with Sue McCormick.

Bob Jackovich is one of a number of customers serving on a Water Quality Workgroup that will be developing recommendations regarding a regional response to lead issues. This group has held 3 meetings and is meeting on a monthly basis.

I am also serving on a new work group that has been established to work with the GLWA to conduct the many water data studies required by the GLWA lease agreement. An RFP for a portion of this work has been developed and will be sent out in June. The purpose of these studies is to have an independent review performed of the demand factors being used for non-master metered customers (Detroit, Dearborn and Highland Park), of GLWA's water loss calculations and the allocation of the lost water among the customers and an audit of GLWA's calibration practices for their wholesale water meters. These have all been long standing issues for the suburban customers that are now finally being addressed under the Authority structure. These are also very complex issues that will probably take a number of years to completely study.

#### Bond Refinancing

The GLWA is working on refinancing several hundred million dollars of callable water and sewer bonds in order to reduce their borrowing costs. The bonds are callable as of July 1. This work is complicated by the 2016/17 budget just being finalized and by the fact that the City of

Detroit audit for 2014/15, which includes an audit of DWSD, is not yet completed. The audit was supposed to have been completed by May 30, 2016 but has not yet been released. The bond refinancing should take place shortly after July 1 and should result in significant savings in interest costs.

#### Highland Park

There have been no further developments in the case regarding the Highland Park unpaid water and sewer bills which is still at the Court of Appeals. The MDEQ has received the GLWA letter to Governor Snyder regarding Highland Park and has indicated that they will provide a response in the near future. We have not received a response from the Governor to the Highland Park letter that was signed by the SOCWA Board at the May Board meeting.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the report on GLWA issues be received and filed."

June 3, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Organization Meeting & Election of Officers

Board Members:

SOCWA's Articles of Incorporation call for the July organizational meeting to be held at 3:00 P.M. on the second Wednesday of July. SOCRRA had a similar specification in their Articles, which was removed when the SOCRRA member communities approved revised Articles of Incorporation during 2012. Because the afternoon meeting provision was removed, SOCRRA will be holding their organizational meeting at 9:30 on July 13, 2016, the second Wednesday of July. I am recommending that the SOCWA Board approve holding their organizational meeting at 8:30 A.M. on Wednesday, July 13, 2016 in order to allow the SOCWA and SOCRRA Board meetings to occur back-to-back, as they typically do. If the Board accepts this recommendation, the organizational meeting will be held at 8:30 A.M. on Wednesday, July 13, 2016 at the Royal Oak Senior Center, 3500 Marais, Royal Oak, Michigan.

At this Organization Meeting, the Board should elect the following Officers for the fiscal year 2016/17:

\*Chair

\*Vice Chair

\*Secretary

\*Advisory Committee (Chair & Three Board Members)

Finance Director

Accountant/Treasurer

**\*Note: Must Be Members of the Board**

Attached is a list of the membership of the Board, the dates they were appointed and the offices they have held. It is recommended that the Chair appoint a Nominating Committee composed of three members of the Board who should meet to select candidates to the various offices, for consideration of the Board of Trustees at the Organization Meeting to be held July 13, 2016.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

JAM/kb

Suggested Resolution: "That the SOCWA Board hold its organizational meeting at 8:30 A.M. on Wednesday, July 13, 2016, and "That the Chair appoint a Nominating Committee composed of three members of the Board who should meet to select candidates to the various offices, for consideration of the Board of Trustees at the Organization Meeting."



SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY

<b>Position</b>	<b>Duties</b>	<b>Position Presently Held By:</b>
*Chair	Presiding Officer	H. Drinkwine
*Vice Chair	Performs the duties of Chair in absence of Chair	Greg Rassel
*Secretary	Recording Officer of the Board	C. Galed
*Advisory Committee (Chair & Three Board Members) <b>(Advisory Committee also serves as Audit Committee)</b>	To advise the General Manager in the administration of the Authority	H. Drinkwine C. Galed S. Pietrzak G. Rassel
Finance Director	Chief Accounting Officer	J. A. McKeen
Accountant/Treasurer	Custodian of the funds of the Authority	K. Mallender

\*Must be Board Member

SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY  
 BOARD OF TRUSTEES  
MEMBERS AND OFFICERS

Name	Date Appointed to Board	Chair	Vice Chair	Secretary	Advisory Committee
S. Pietrzak	7-12-00	2006/07 2007/08	9-14-05/06	2004/05	2004/05 2005/06 2006/07 2007/08 2008/09 2009/10 2011/12 2012/13 2013/14 2014/15 2015/16
H. Drinkwine	12-13-00	2008/09 2009/10 2010/11 2011/12 2012/13 2013/14 2014/15 2015/16	2006/07 2007/08	9-14-05/06	9-14-05/06 2006/07 2007/08 2008/09 2009/10 2011/12 2012/13 2013/14 2014/15 2015/16
G. Rassel	6-14-06		2011/12 2012/13 2013/14 2014/15 2015/16		2012/13 2013/14 2014/15 2015/16
C. Galed	6-12-02/03 7-8-09			2011/12 2012/13 2013/14 2014/15 2015/16	2013/14 2014/15 2015/16
C. Wilson	8-13-08				
P. T. O'Meara	5-15-09				
R. Walsh	2-08-11				
D. Schueller	8-10-11				
D. Warren	9-23-13				
L. Schultz	7-1-14				
Lathrup Village-Vacant					

May 18, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Liability and Property Insurance

Board Members:

We recently received our renewal premium notification for the Liability and Property Insurance policy from the Michigan Municipal Risk Management Authority (MMRMA). The premium for a coverage level of: \$75,000 self-insured retention, \$15,000,000 total liability coverage, and stop loss coverage at \$150,000, was decreased by 9.8% to a new premium of \$32,959 per year. This coverage level is the same as our current coverage except the MMRMA has increased the minimum stop loss limit from our prior level of \$75,000 to \$150,000 for all organizations for 2016/17. While we are unlikely to need to stop loss coverage at this level, the annual premium of \$658, which is included in the premium quoted above, is very small. The MMRMA is continuing to provide insurance coverage for data breach and privacy liability at no additional cost. All other insurance coverage remains unchanged.

The MMRMA has announced they are distributing excess assets from prior year's operations to their members. The distribution for SOCWA is \$33,447, but we are required to renew our insurance coverage through the MMRMA in order to receive this distribution. Including this distribution, the MMRMA will be paying SOCWA \$488 for the privilege of providing our property and liability insurance. Given the size of the asset distribution, I did not attempt to obtain insurance quotes from other providers.

I am recommending that we continue to be insured through the MMRMA at the level of coverage listed above. We anticipated a 5% decrease in insurance premiums and no asset distribution when the 2016/17 budget was established, so the insurance cost will be substantially below the budgeted amount. Reducing the level of insurance coverage does not cause a sufficient reduction in our premiums to justify taking on the additional exposure.

Respectfully Submitted,

---

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the Board approve contracting with the MMRMA for liability and property insurance in the amount of \$32,959 per year for the period July 1, 2016 through June 30, 2017 at the current level of insurance coverage with an increase in the stop loss limit to \$150,000."

May 18, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Quarterly Report – April 2016

Board Members:

The April 2016 Quarterly Report is either included with your agenda packet or has been sent to you electronically. We encourage you to use this electronic version to disseminate the report to your Council/Commission members. If you need paper copies, please let us know.

It is recommended that the Quarterly Report – April 2016 be received and filed.

Submitted by:

---

Karen K. Mallender  
Accountant/Treasurer

Approved by:

---

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: “That the Quarterly Report – April 2016 be received and filed.”

May 2, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Investments – January 1, 2016 through March 31, 2016

Board Members:

Attached is a list of the investments made by the Authority during the period January 1, 2016 through March 31, 2016. These investments are in compliance with Act 79 of the Public Acts of 1979.

The Board of Trustees has authorized the General Manager to enter into agreements with Comerica, Michigan First CU, Flagstar, PNC, The Oakland County Local Government Investment Pool and Ambassador Capital Management for the investment of surplus funds as provided for in Public Act 367. The attached list shows the interest made from these investments:

<b>Fiscal Year</b>	<b>Interest Earned</b>
2008/09	20,168
2009/10	13,041
2010/11	15,581
2011/12	30,059
2012/13	29,292
2013/14	42,005
2014/15	27,206
2015/16 (3 <sup>rd</sup> Quarter)	18,159

The investment policy followed by the Authority is to have 90% or more of all available funds invested. On March 31, 2016, the Authority had 99.9% of all funds invested and accruing interest.

It is recommended that this report be received and filed and made a part of the Board record.

Submitted by:

---

Karen K. Mallender  
Accountant-Treasurer

Approved by:

---

Jeffrey A. McKeen, P.E.  
General Manager

Attach.

Suggested Resolution: "That the report on investments made by the Authority during the period January 1, 2016 through March 31, 2016 be received and filed and made a part of the Board record."



**DBS** DAVIS BURKET SAVAGE  
LISTMAN TAYLOR

Attorneys at Law

ROBERT CHARLES DAVIS

t: (586) 469-4300

f: (586) 469-4303

rdavis@dbsattorneys.com

www.dbsattorneys.com

May 5, 2016

**VIA ELECTRONIC MAIL**

Mr. Jeffrey McKeen, General Manager  
SOCWA  
3910 W. Webster Road  
Royal Oak, MI 48073-6764

**Re: Quarterly Legal Report / SOCWA**

Dear Mr. McKeen:

This letter serves as the quarterly legal report. This report is also intended to set forth the expected legal work issues in the next quarter.

**I. CURRENT PROJECTS**

- New member analysis / Bloomfield (inactive as of this date).
- Ongoing discussions and meetings with DWSD, representatives and attorneys on DWSD issues, structure and application of Regional Water Authority issues, and other related issues, including federal court issues.
- Ongoing issues with DWSD on contract reopener issues.
- Ongoing issue with Southfield property parking easement.

**II. NEXT QUARTER PROJECTS**

Aside from the above, there are currently no new projects for next quarter. There is no litigation threatened or pending.

Should you have any questions, please do not hesitate to call.

Very truly yours,



Robert Charles Davis

May 6, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: General Counsel Evaluation

Board Members:

As part of the SOCRRA General Counsel evaluation process, comments were received from Berkley, Clawson, Huntington Woods and Royal Oak. Overall, the evaluations were very positive and no specific SOCWA issues were identified. I continue to be extremely pleased with Mr. Davis' work on behalf of SOCWA.

I plan to meet with Mr. Davis before the end of May to review the evaluations from the Board members.

Our current agreement with Mr. Davis extends to June 30, 2018.

Respectfully submitted,

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the report on the General Counsel evaluation be received and filed."



May 26, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Lead and Copper Testing

Board Members:

The MDEQ has provided water system operators with another letter providing “best practices” regarding lead service lines. A copy of the MDEQ letter is attached. I will review the letter with the Board at the June Board meeting.

The GLWA Water Quality workgroup has prepared draft language regarding lead in drinking water that will be included as part of the Consumer Confidence Report information that is provided by the GLWA to its customers.

SOCWA staff has begun working with Southfield DPW staff and the MDEQ to prepare for the lead monitoring that will take place in Southfield this summer. This monitoring is being performed at the request of the MDEQ to resolve a noncompliance resulting from a discrepancy regarding the required number of lead samples for the Southfield system. We are using this as an opportunity to review our entire lead and copper sampling program.

Flint

The MDEQ is continuing to publish the results of the many Flint water samples on the mich.gov website. As of May 19, 2016, the results of 21,754 tests were posted. While 92.0% of the samples are equal to or less than the 15 ppb action level, there are 1,747 samples that are over the action level. The highest lead level recorded was 22,905 ppb and 54 samples were over 1,000 ppb. The locations having lead over the EPA action level seem to be fairly randomly distributed across Flint. These testing results are very consistent with the previous testing results.

Respectfully submitted,

---

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: “That the report on Lead and Copper Testing be received and filed.”



RICK SNYDER  
GOVERNOR

STATE OF MICHIGAN  
DEPARTMENT OF ENVIRONMENTAL QUALITY  
LANSING



KEITH CREAGH  
DIRECTOR

May 13, 2016

Attn: Water Supply Superintendent or Operator in Charge

SUBJECT: Impact of Construction Activity on Drinking Water Quality

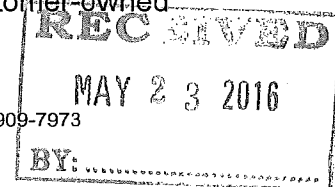
This letter is to advise water supplies about the potential impact of construction activity on localized drinking water quality, particularly from ground disturbance in the area of existing lead service lines. Recent research has indicated that vibrations from construction activity can cause particulate lead to dislodge from service lines and temporarily contribute to elevated lead levels in drinking water. The Department of Environmental Quality (DEQ) is committed to assisting water supplies in lowering risks associated with lead in drinking water and protecting public health.

The following best practices are advised:

1. Ensure confidence in your existing materials inventory by investigating service lines of unknown material, verifying previous assumptions about line material, and fully documenting a complete and accurate distribution system materials inventory as soon as possible.
2. Avoid partial lead service line replacements that leave any portion of lead line in place, including lead "goosenecks." A gooseneck, or pigtail, is the publically-owned portion of the service line between the water main and either a connector line or the curb box. Partial lead service line replacements may result in elevated lead levels in drinking water.
3. Prior to undertaking any construction activity in an area with lead service lines, contact all potentially-affected residents and provide them with information that will help reduce their risk. The enclosed brochure advises potentially impacted residents to:
  - a. Flush pipes after construction activity, prior to consuming drinking water.
  - b. Clean faucet aerators to remove any dislodged lead particles, and,
  - c. Potentially use a water filter following construction activities, particularly if pregnant, nursing or have children under the age of six.
4. After construction activities are complete and preventative measures have been taken, consider offering to test residents' drinking water for lead to ensure the risk has been abated.

The DEQ encourages water supplies to engage their customers in a solution to eliminate both customer-owned and supply-owned portions of remaining lead service lines. While this may be a significant challenge for many communities, consider the following possible methods to assist in this effort:

- Pursue ordinances or other legal authorities to access and modify customer-owned portions of the distribution system.



May 13, 2016

- Explore availability of Drinking Water Revolving Fund loans for lead service line replacements.
- Provide low interest loans or other incentives for residents to replace their portion of lead service lines.

Above all, you are urged to carry out water distribution system activities in a fully transparent manner, providing general information to the public proactively and responding to individual requests for information responsively.

If you have any questions, please contact your district engineer or analyst. Thank you for your continued effort to ensure the drinking water is safe for your residents. For more information, visit the Web site at: <http://www.michigan.gov/drinkingwater>.

Sincerely,



Mary Ann Dolehanty, Interim Chief  
Office of Drinking Water and Municipal Assistance

Enclosure

# CONSTRUCTION ACTIVITY COULD AFFECT YOUR DRINKING WATER QUALITY

State of Michigan

Environmental Assistance Center

800-662-9278 | [deq-assist@michigan.gov](mailto:deq-assist@michigan.gov)

**Upcoming construction activity in your neighborhood could affect your drinking water quality. We anticipate this project will proceed smoothly, with every effort made to minimize any inconvenience to you during construction.**

Our records indicate that in your neighborhood, some of the pipes connecting homes to the water mains may be made of lead. Lead service lines can increase your risk of exposure to lead through drinking water, especially when the ground is disturbed close to your home. This increased risk is because the ground disturbance could cause particulates to shake free from inside the network of underground pipes. Your water may appear discolored.

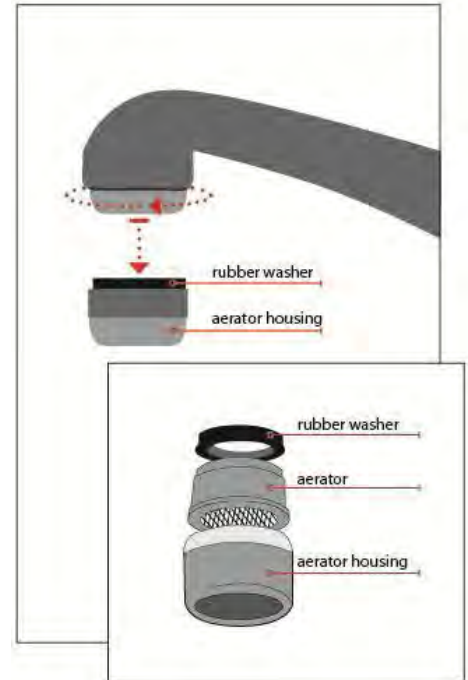
During this construction and until lead service lines are replaced, you should take precautions to minimize exposure to lead in your drinking water by taking the following actions:

**Clean your faucet aerator.** The aerator on the end of your faucet is a screen that will catch debris. This debris could include particles of lead which have fallen off the insides of lead pipe. The aerator should be removed at least monthly to rinse out any debris. During this upcoming construction activity, check your aerator more often. Start by checking it weekly and if no debris is present, return to a monthly schedule.

**Flush your pipes before drinking.** The longer water sits in your home piping, the more lead may leach from lead-containing pipes, solder or brass fixtures. Anytime a faucet used for drinking or food prep has not been used for six hours or longer, the tap should be “flushed” by turning on the cold water and letting it run until it is as cold as possible. Flushing should not take long (5-30 seconds) if there has been routine daily water use. If there has not been recent daily water use, it could take two minutes or longer for the water to become cold. Your water utility can tell you if longer flushing times are needed if you do not get cold water in a few minutes.

**Do not boil water to remove lead.** Boiling will not remove the lead.

**Use a filter.** You may also wish to use a home filter for water to be used for drinking and cooking, particularly if you are pregnant or have children under age six. This equipment is especially important if you are making baby formula. Make sure the filter is certified for lead removal. Be sure to replace a filter device as often as the manufacturer recommends. Contact NSF International at 800-NSF-8010 or visit their website at [www.nsf.org](http://www.nsf.org) for water filter performance standards.



*Aerator with sediment*

Information about lead service lines, as well as important information about the harmful effects of lead and steps you can take to protect against lead exposure, is available on our website at [www.michigan.gov/deq](http://www.michigan.gov/deq) or call the Environmental Assistance Center at **800-662-9278**.



June 2, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Water Residential Affordability Plan (WRAP)

Board Members:

The Water Residential Affordability Plan (WRAP) is continuing to enroll participating communities even though the enrollment deadline has passed. As of June 2, 28 communities, including Bingham Farms, Clawson, Royal Oak and Southfield are listed as being active in the WRAP program. The GLWA has not provided a community status update since the end of April. At that time, the following was the status of the WRAP enrollment for the SOCWA communities:

<b><u>COMMUNITY</u></b>	<b><u>STATUS</u></b>
Berkley	Meeting scheduled for May 12 with Berkley staff
Beverly Hills	Information e-mail sent to Chris Wilson
Bingham Farms	Enrollment completed
Birmingham	Information e-mail sent to Paul O'Meara
Clawson	Enrollment completed
Huntington Woods	Huntington Woods preparing memorandum of understanding
Lathrup Village	Information e-mail sent to Matt Baumgarten
Pleasant Ridge	Information e-mail sent to Scott Pietrzak
Royal Oak	Enrollment completed
Southfield	Enrollment completed
Bloomfield Hills	GLWA to follow-up on status
Bloomfield Twp.	Opted Out

The GLWA should be providing a status update as of the end of May in the near future. I will continue to work with the GLWA staff in order to get all of the member communities enrolled in the WRAP program. Please let me know if you need any assistance regarding the WRAP program. I continue to believe that this is a well-designed, although very complex, program that will provide great assistance to low income residents and I continue to encourage each community to participate in the WRAP program.

Respectfully submitted,

---

Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the report on the Water Residential Affordability Plan (WRAP) be received and filed."

May 6, 2016

Board of Trustees  
Southeastern Oakland County Water Authority

Subject: Workers' Compensation Insurance

Board Members:

We recently received our renewal premium notification for the Workers' Compensation Insurance policy from the Michigan Municipal League (MML). The premium for our coverage, after the application of a dividend credit of \$6,158, was decreased by \$716 (5%) to a new premium of \$13,306 per year. The dividend credit is our share of surplus funds from prior fiscal years. We had budgeted \$15,000 for the 2016/17 fiscal year.

As a result of our good safety record, we continue to enjoy a low experience modifier of 0.85, which is slightly lower than the 0.87 we received last year. We had 0 OSHA recordable injuries during 2015 after having 5 in 2014.

The Authority has had workers' compensation insurance through the MML for quite some time and we have been very satisfied with our level of service.

I am recommending that we continue to purchase our Workers' Compensation Insurance through the MML.

Respectfully Submitted,

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Jeffrey A. McKeen, P.E.  
General Manager

Suggested Resolution: "That the Board approve contracting with the MML for Workers' Compensation Insurance for the cost of \$13,066 for the period July 1, 2016 through June 30, 2017."

**SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY**  
**BUDGET ANALYSIS**  
**May-16**

	<u>BUDGET</u>	<u>ACTUAL</u>	<u>VARIANCES</u>
<b>REVENUES</b>			
<u>OPERATION</u>			
SALE OF WATER	\$1,421,000.00	\$1,417,410.84	(\$3,589.16)
SALE OF WATER OTHERS	745,000.00	797,750.25	52,750.25
	<u>\$2,166,000.00</u>	<u>\$2,215,161.09</u>	<u>\$49,161.09</u>
<u>OTHER INCOME</u>			
RENTALS	\$4,300.00	\$9,161.60	\$4,861.60
WATER ANALYSIS-LAB & MISC	1,000.00	0.04	(999.96)
GRANT REVENUE	0.00	0.00	0.00
INTEREST ON INVESTMENTS	3,200.00	2,738.48	(461.52)
	<u>\$8,500.00</u>	<u>\$11,900.12</u>	<u>\$3,400.12</u>
<b>TOTAL REVENUES</b>	<u>\$2,174,500.00</u>	<u>\$2,227,061.21</u>	<u>\$52,561.21</u>
<u>EXPENSES</u>			
WATER PURCHASED FOR RESALE	\$1,748,000.00	\$1,715,121.13	(\$32,878.87)
POWER,PUMPING & GROUNDS WEBSTER	51,658.96	34,008.40	(17,650.56)
POWER,PUMPING & GROUNDS	24,280.69	9,862.48	(14,418.21)
COMPUTER OPERATIONS	5,916.66	4,768.45	(1,148.21)
PURIFICATION	8,000.00	4,944.70	(3,055.30)
METERS & MAINS	11,416.66	4,372.36	(7,044.30)
ADMINISTRATIVE & GENERAL	68,250.00	65,473.90	(2,776.10)
BOND INTEREST	0.00	0.00	0.00
	<u>\$1,917,522.97</u>	<u>\$1,838,551.42</u>	<u>(\$78,971.55)</u>
<b>REVENUES OVER EXPENSES</b>	<u>\$256,977.03</u>	<u>\$388,509.79</u>	<u>\$131,532.76</u>

**SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY  
BUDGET ANALYSIS  
JULY 1, 2015 THROUGH MAY 31, 2016**

	<u>BUDGET</u>	<u>ACTUAL</u>	<u>VARIANCES</u>
<b>REVENUES</b>			
<u>OPERATION</u>			
SALE OF WATER MEMBERS	\$15,584,000.00	\$15,016,650.73	(\$567,349.27)
SALE OF WATER OTHERS	7,970,000.00	7,668,532.58	(\$301,467.42)
	<u>\$23,554,000.00</u>	<u>\$22,685,183.31</u>	<u>(\$868,816.69)</u>
<u>OTHER INCOME</u>			
RENTALS	\$88,000.00	\$106,304.46	\$18,304.46
WATER ANALYSIS-LAB & MISC	9,000.00	27,891.23	18,891.23
GRANT REVENUE	4,000.00	0.00	(4,000.00)
INTEREST ON INVESTMENTS	36,800.00	23,447.55	(13,352.45)
	<u>\$137,800.00</u>	<u>\$157,643.24</u>	<u>\$19,843.24</u>
<b>TOTAL REVENUES</b>	<u>\$23,691,800.00</u>	<u>\$22,842,826.55</u>	<u>(\$848,973.45)</u>
<u>EXPENSES</u>			
WATER PURCHASED FOR RESALE	\$15,551,000.00	\$15,159,078.81	(\$391,921.19)
WATER PURCHASE IN TRANSIT	5,290,000.00	5,411,184.92	121,184.92
POWER,PUMPING & GROUNDS WEBSTER	534,276.98	455,554.13	(78,722.85)
POWER,PUMPING & GROUNDS	252,998.17	144,377.52	(108,620.65)
COMPUTER OPERATIONS	65,083.33	60,675.97	(4,407.36)
PURIFICATION	70,500.00	70,506.43	6.43
METERS & MAINS	125,583.33	108,252.55	(17,330.78)
ADMINISTRATIVE & GENERAL	899,800.00	732,693.02	(167,106.98)
BOND INTEREST	0.00	0.00	0.00
	<u>\$22,789,241.81</u>	<u>\$22,142,323.35</u>	<u>(\$646,918.46)</u>
<b>REVENUES OVER EXPENSES</b>	<u>\$902,558.19</u>	<u>\$700,503.20</u>	<u>(\$202,054.99)</u>



**SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY**  
 Water Supplier Bacteriological Analysis Report for the Michigan Department of Environmental Quality  
 System Name: S.O.C.W.A. WSSN-6150  
 Oakland County, Michigan

Month: **May 2016** # of Weeks: **4**

Community (Sample Location)	Sta.	Date: Cl <sub>2</sub>	05/04/16 P/A	Date: Cl <sub>2</sub>	05/11/16 P/A	Date: Cl <sub>2</sub>	05/18/16 P/A	Date: Cl <sub>2</sub>	05/25/16 P/A	Date: Cl <sub>2</sub>
<b>City of Berkley (WSSN #0630)</b>										
Einstein Bagel	BE-1	0.70	A	0.70	A	0.70	A	0.70	A	0.70
Auto One	BE-2	0.70	A	0.70	A	0.70	A	0.70	A	0.70
DPW Building	BE-3	0.70	A	0.70	A	0.70	A	0.70	A	0.70
Public Safety Building	BE-4	0.60	A	0.60	A	0.60	A	0.60	A	0.60
<b>Village of Beverly Hills (WSSN #0690)</b>										
Valvoline Oil Change	BH-1	0.70	A	0.70	A	0.70	A	0.70	A	0.70
Public Safety Building	BH-2	0.60	A	0.60	A	0.70	A	0.70	A	0.70
Northbrook Church	BH-3	0.70	A	0.70	A	0.70	A	0.70	A	0.70
<b>Village of Bingham Farms (WSSN #0715)</b>										
Tel Bingham Offices	BF-1	0.70	A	0.70	A	0.70	A	0.70	A	0.70
Butzel Long Building	BF-2	0.70	A	0.60	A	0.60	A	0.60	A	0.60
<b>City of Birmingham (WSSN #0730)</b>										
D.R.S.	BI-1	0.70	A	0.70	A	0.70	A	0.70	A	0.70
Adams Fire Station	BI-2	0.70	A	0.60	A	0.60	A	0.60	A	0.60
Police Station	BI-3	0.60	A	0.60	A	0.60	A	0.60	A	0.60
Chesterfield Fire Station	BI-4	0.70	A	0.70	A	0.60	A	0.60	A	0.60
Chanelle Pastry	BI-5	0.70	A	0.70	A	0.70	A	0.70	A	0.70
<b>City of Clawson (WSSN #1440)</b>										
Auger's Collision	CL-1	0.60	A	0.60	A	0.60	A	0.60	A	0.70
Police Station	CL-2	0.60	A	0.60	A	0.70	A	0.70	A	0.70
DPW Building	CL-3	0.70	A	0.70	A	0.70	A	0.70	A	0.70
National Coney	CL-4	0.70	A	0.70	A	0.70	A	0.70	A	0.70
<b>City of Huntington Woods (WSSN #3310)</b>										
Community Center	HW-1	0.70	A	0.70	A	0.70	A	0.70	A	0.70
H.W. D.P.W.	HW-2	0.70	A	0.70	A	0.70	A	0.70	A	0.70
Rackham Golf Course	HW-3	0.60	A	0.60	A	0.60	A	0.60	A	0.60
<b>City of Lathrup Village (WSSN #3800)</b>										
\$2.89 Cleaners	LV-1	0.70	A	0.70	A	0.60	A	0.60	A	0.70
Hellenic Coney Island	LV-2	0.70	A	0.70	A	0.70	A	0.70	A	0.70
Lathrup City Hall	LV-3	0.70	A	0.70	A	0.70	A	0.70	A	0.70
<b>City of Pleasant Ridge (WSSN #5390)</b>										
D.P.W.	PR-1	0.60	A	0.60	A	0.60	A	0.60	A	0.60
Sunoco Station	PR-2	0.70	A	0.70	A	0.70	A	0.70	A	0.70
Community Center	PR-3	0.70	A	0.70	A	0.70	A	0.70	A	0.70

Cl<sub>2</sub> (Chlorine measured in mg/L)  
 P/A (Presence/Absence 100 mL/sample)

SOCWA - Page 1

Community (Sample Location)	Sta.	Date:	05/04/16	Date:	05/11/16	Date:	05/18/16	Date:	05/25/16	Date:
		Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>	P/A	Cl <sub>2</sub>
<b>City of Royal Oak (WSSN #5830)</b>										
Subway	1411 11 Mile Rd.	RO-1	0.70	A	0.70	A	0.70	A	0.70	A
Fire Station 6 <sup>th</sup> & Troy	216 6 <sup>th</sup> St.	RO-2	0.70	A	0.70	A	0.70	A	0.70	A
McPeeks Ctigo	1702 Crooks Rd.	RO-3	0.70	A	0.70	A	0.70	A	0.70	A
Fire Station Wood/13	31000 Woodward Ave.	RO-4	0.60	A	0.60	A	0.60	A	0.70	A
Golden Basket	32286 Woodward Ave.	RO-5	0.70	A	0.70	A	0.70	A	0.70	A
Brakes & More	2400 14 Mile Rd.	RO-6	0.70	A	0.70	A	0.70	A	0.70	A
McDonald's	3300 Rochester Rd.	RO-7	0.70	A	0.70	A	0.70	A	0.70	A
Howie Glass	940 Campbell Rd.	RO-8	0.70	A	0.70	A	0.60	A	0.70	A
<b>City of Southfield (WSSN #6160)</b>										
Dunkin Donuts	22111 Greenfield Rd.	SO-1	0.70	A	0.70	A	0.70	A	0.70	A
Top Value	21990 8Mile Rd.	SO-2	0.60	A	0.60	A	0.60	A	0.60	A
JAX Car Wash	27000 8 Mile Rd.	SO-3	0.70	A	0.70	A	0.70	A	0.70	A
Midas Muffler	24945 Telegraph Rd.	SO-4	0.70	A	0.70	A	0.70	A	0.70	A
Kirby's Coney Island	25050 Northwestern Hwy.	SO-5	0.70	A	0.70	A	0.70	A	0.70	A
Dunkin Donuts	29285 Southfield Rd.	SO-6	0.70	A	0.70	A	0.70	A	0.70	A
Midas Muffler	26969 Greenfield Rd.	SO-7	0.70	A	0.70	A	0.70	A	0.70	A
OCRC Garage	27900 Clara Ln.	SO-8	0.70	A	0.70	A	0.70	A	0.70	A
JAX Car Wash	28845 Telegraph Rd.	SO-9	0.60	A	0.60	A	0.70	A	0.60	A
<b>SOCWA Entry Points (WSSN #6150)</b>										
Livernois Pump Station	224 Livernois Rd.	WA-1	0.60	A	0.70	A	0.70	A	0.60	A
Lamb Pump Station	21101 Greenfield Rd.	WA-2	0.30	A	0.30	A	0.30	A	0.30	A
Webster Pump Station	3910 W. Webster Rd.	WA-3	0.80	A	0.80	A	0.80	A	0.80	A
**from Webster 10 MG	3910 W. Webster Rd.	WA-4	0.70	A	0.70	A	0.70	A	0.60	A
**from Webster 7.5 MG	3910 W. Webster Rd.	WA-5	0.80	A	0.70	A	0.70	A	0.70	A
Gare Pump Station	24570 W. 12 Mile Rd.	WA-6	0.80	A	0.80	A	0.80	A	0.80	A
**from Gare 4.5 MG	24570 W. 12 Mile Rd.	WA-7	0.60	A	0.60	A	0.50	A	0.50	A
14 Mile Pump Station	16111 W. 14 Mile Rd.	WA-8	0.80	A	0.80	A	0.80	A	0.80	A
**from 14 Mile 5.0 MG	16111 W. 14 Mile Rd.	WA-9	0.60	A	0.60	A	0.60	A	0.60	A
Samoset Elevated Tank	2721 Samoset Rd.	WA-10	0.80	A	0.80	A	0.80	A	0.80	A
Oliver Pump Station	2443 Oliver Rd.	WA-11	0.80	A	0.80	A	0.80	A	0.80	A
Buchanan Pump Station	24250 W. 8 Mile Rd.	WA-12	0.30	A	0.30	A	0.30	A	0.40	A
**from Buchanan 2.5 MG	24250 W. 8 Mile Rd.	WA-13	OOS	OOS	OOS	OOS	OOS	OOS	OOS	OOS
<b>Metered Connections</b>										
Detroit Zoo	8450 W. Ten Mile Rd.	MC-1	0.70	A	0.70	A	0.70	A	0.70	A
Beaumont Hospital	1301 13 Mile Rd.	MC-2	0.70	A	0.70	A	0.70	A	0.70	A
<b>Total: Routine Municipal Samples</b>			56		56		58		58	
<b>Total: Water Main Construction &amp; Misc.</b>			2		2		3		11	
<b>Total: Samples for Month:</b>		246	58		58		61		69	

Method of Analysis: Analyzed per "STANDARD METHODS-for the Examination of Water and Wastewater"

Part No. 9223 B. Enzyme Substrate Test.

Examined by: Laurence Westmore

Date:

SOUTHEASTERN OAKLAND COUNTY WATER AUTHORITY													
PRECIPITATION - INCHES (WEBSTER PUMPING STATION)													
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1980	0.78	1.16	3.60	4.03	3.53	4.27	1.45	5.96	4.75	1.40	0.85	2.43	34.21
1981	0.47	3.20	0.62	3.85	2.35	1.78	3.85	1.85	7.70	4.05	0.95	2.20	32.87
1982	3.06	0.99	7.87	1.53	2.61	3.50	2.68	1.09	2.52	0.56	5.48	3.09	34.98
1983	0.98	1.49	1.92	3.98	4.85	5.10	4.08	1.62	1.63	2.57	3.93	3.16	35.31
1984	2.67	1.26	3.82	1.91	4.11	0.95	2.06	4.26	3.04	1.91	2.88	3.14	32.01
1985	3.90	3.70	4.60	0.95	3.66	1.68	4.37	4.02	1.45	3.30	5.10	1.13	37.86
1986	1.68	2.73	1.74	1.91	2.10	4.62	2.79	3.10	5.48	2.48	0.95	1.95	31.53
1987	1.55	0.58	1.90	2.03	1.61	3.18	4.30	5.31	2.30	2.00	2.80	2.80	30.36
1988	0.60	1.53	0.40	1.40	1.00	0.55	2.80	2.05	3.25	3.43	2.61	0.80	20.42
1989	0.71	0.35	1.30	1.25	2.22	3.85	2.15	1.39	5.53	1.45	2.80	0.50	23.50
1990	1.52	4.18	1.40	1.95	3.00	2.25	2.03	4.30	3.90	3.70	2.35	3.40	33.98
1991	0.90	0.45	1.37	1.65	5.46	1.79	1.92	3.36	0.72	3.64	2.65	2.05	25.96
1992	1.35	1.24	2.98	2.75	0.85	2.05	6.40	2.30	3.10	1.95	4.20	1.80	30.97
1993	3.64	0.82	1.15	2.80	1.20	4.91	2.05	2.85	5.85	1.75	1.50	0.45	28.97
1994	2.15	0.55	2.20	2.70	0.70	5.21	1.30	2.77	1.20	2.33	3.02	2.20	26.33
1995	1.32	0.85	1.15	2.05	2.80	2.25	4.45	4.15	1.00	3.25	3.05	0.95	27.27
1996	1.45	1.30	1.00	3.75	3.30	4.20	1.85	0.40	4.45	2.20	2.15	1.30	27.35
1997	1.45	2.75	3.15	0.85	4.55	1.55	2.20	1.90	3.45	2.15	0.50	1.30	25.80
1998	2.80	2.85	4.60	2.86	1.65	1.75	2.80	6.85	1.00	2.05	1.00	1.45	31.66
1999	3.75	1.30	0.55	3.85	2.80	4.55	2.65	1.40	2.60	0.60	1.45	2.70	28.20
2000	1.30	0.50	1.05	3.20	4.25	5.00	4.10	2.55	4.35	2.00	1.05	2.70	32.05
2001	0.12	2.70	0.30	2.98	4.50	2.30	2.10	1.65	4.00	6.65	1.70	1.55	30.55
2002	1.55	1.45	1.10	0.65	1.90	1.05	4.35	0.70	2.85	0.96	2.00	0.90	19.46
2003	0.25	0.20	1.25	2.05	4.70	4.65	0.50	2.40	3.20	2.10	3.60	2.30	27.20
2004	2.60	0.40	2.40	0.05	6.80	2.30	2.70	3.70	0.80	1.65	2.45	3.00	28.85
2005	2.50	3.10	0.55	1.70	0.70	1.50	3.20	0.65	2.95	0.30	3.95	1.60	22.70
2006	2.50	0.95	2.95	2.05	5.20	3.30	1.60	1.90	2.56	2.90	3.00	3.40	32.31
2007	3.30	0.65	4.90	2.25	2.60	2.75	1.00	4.55	1.20	2.35	1.90	4.75	32.20
2008	2.40	3.90	1.90	0.40	1.95	3.85	3.05	0.27	6.55	1.80	3.15	4.05	33.27
2009	2.85	1.95	6.31	6.85	3.35	3.20	1.55	4.00	1.56	2.85	0.20	2.80	37.47
2010	0.80	1.65	0.67	1.80	4.30	3.40	4.95	0.25	2.70	2.20	4.30	0.70	27.72
2011	2.20	5.75	3.20	5.20	5.40	2.40	3.40	3.30	7.80	3.20	5.60	3.10	50.55
2012	2.60	0.40	2.10	0.50	1.10	0.90	3.80	4.30	2.00	1.70	0.72	0.00	20.12
2013	1.90	2.10	1.00	5.10	2.10	4.60	3.00	3.30	2.00	3.10	2.40	3.60	34.20
2014	1.30	0.70	0.80	2.60	2.40	3.10	2.70	7.20	2.20	1.70	2.40	1.20	28.30
2015	2.60	1.20	0.40	0.70	3.00	3.40	1.30	2.10	1.30	1.80	1.30	1.50	20.60
AVG.	1.88	1.69	2.17	2.39	3.02	2.99	2.82	2.88	3.14	2.33	2.50	2.11	29.92
2016	0.9	0.7	2.5	1.0	1.6								