

**NOTICE OF MEETINGS**  
**DRAINAGE BOARD FOR THE FOLLOWING DRAINS:**

1. Acacia Park CSO Drain
2. Birmingham CSO Drain
3. Bloomfield Village CSO Drain
4. Clinton River Water Resource Recovery Facility
5. George W. Kuhn Drain
6. Evergreen-Farmington Sanitary Drain
7. Earlmoor Drain
8. Guyer Drain
9. Joachim Relief Drain
10. Joseph Jones Drain
11. Pontiac-Clinton River No.2 Drain
12. Richton Relief Drain
13. Rowland Drain
14. Hamlin Drain
15. Nichols Drain

NOTICE IS HEREBY GIVEN THAT MEETINGS OF THE DRAINAGE BOARD FOR THE ABOVE-MENTIONED DRAINS WILL COMMENCE IN THE OAKLAND COUNTY PUBLIC WORKS BUILDING, ONE PUBLIC WORKS DRIVE, WATERFORD, MICHIGAN AND VIA GOTOMEETING AT **2:00 P.M.**, ON **TUESDAY, JULY 27<sup>th</sup>, 2021** TO CONDUCT NECESSARY AND APPROPRIATE BUSINESS OF THE DRAIN BOARDS. THOSE THAT WISH TO PARTICIPATE REMOTELY MAY FOLLOW THE INSTRUCTIONS ATTACHED TO THIS NOTICE.

THIS BOARD MEETING IS BEING CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE OPEN MEETINGS ACT, PA 254 OF 2020, AND/OR AS OTHERWISE PROVIDED BY LAW DUE TO THE ONGOING COVID-19 PANDEMIC. ALL BOARD MEMBERS WILL BE PARTICIPATING IN-PERSON.

DURING THE ELECTRONIC MEETING, THERE WILL BE AN AGENDA ITEM FOR PUBLIC COMMENT, DURING WHICH THE PUBLIC MAY PROVIDE INPUT OR ASK QUESTIONS OF THE BOARD. IN THE EVENT A MEMBER OF THE PUBLIC WOULD LIKE TO SUBMIT THEIR INPUT OR QUESTIONS TO BE READ AT THE MEETING BY THE BOARD CHAIRPERSON, PLEASE PROVIDE THE INPUT OR QUESTIONS IN WRITING TO MEGAN KOSS AT [KOSSM@OAKGOV.COM](mailto:KOSSM@OAKGOV.COM).

PERSONS WITH DISABILITIES THAT NEED ASSISTANCE PARTICIPATING IN THE MEETING SHOULD CONTACT MEGAN KOSS AT [KOSSM@OAKGOV.COM](mailto:KOSSM@OAKGOV.COM).

JIM NASH  
Oakland County Water Resources Commissioner  
Telephone: 248-858-0958

Posted by: July 21, 2021

**Chapter 20 Meeting -- July 27, 2021**  
**Tue, Jul 27, 2021 2:00 PM - 3:30 PM (EDT)**

**Please join my meeting from your computer, tablet or smartphone.**  
**<https://global.gotomeeting.com/join/373436645>**

**You can also dial in using your phone.**  
**United States: [+1 \(872\) 240-3212](tel:+18722403212)**

**Access Code: 373-436-645**

**Join from a video-conferencing room or system.**  
**Dial in or type: 67.217.95.2 or inroomlink.goto.com**  
**Meeting ID: 373 436 645**  
**Or dial directly: [373436645@67.217.95.2](tel:373436645@67.217.95.2) or 67.217.95.2##373436645**

**New to GoToMeeting? Get the app now and be ready when your first meeting starts:**  
**<https://global.gotomeeting.com/install/373436645>**

**Chapter 20 Drainage Board Meeting**  
**Regular Meeting – Tuesday July 27, 2021**

---

**1. Acacia Park CSO**

## **AGENDA**

### **DRAINAGE BOARD FOR THE ACACIA PARK CSO DRAIN**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of June 22, 2021
3. Public Comments
4. Present Memorandum for receive and file of the RTB Capacity Use Credit for the third quarter FY 2021
5. Present request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$5,444.93
6. Present request for reimbursement of the Evergreen Farmington Sewage Disposal System Fund in the amount of \$27,244.56
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn



**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE ACACIA PARK CSO DRAIN**

June 22, 2021

A meeting of the Drainage Board for the Acacia Park CSO Drain was held at 2:00 p.m. on the 22<sup>nd</sup> day of June, 2021. Due to the COVID-19 pandemic, the meeting was conducted electronically via GoToMeeting in accordance with PA 254 of 2020, as may be amended from time to time and/or as otherwise provided by law.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from Farmington Hills, Michigan.

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners, participating from Novi, Michigan.

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners.

Minutes of the meeting held May 18, 2021 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

Chairperson Nash asked if there were any public comments. There were none.

A request for reimbursement of the Evergreen Farmington Fund in the amount of \$31,955.84 (as attached) was presented. It was moved by Markham, supported by Nash, to reimburse the Evergreen Farmington Fund in the amount of \$31,955.84.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

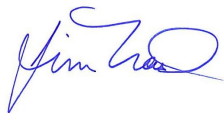
It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

There being no further business, the meeting was adjourned.



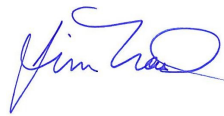
---

Jim Nash, Chairperson

STATE OF MICHIGAN                     )  
  )SS.  
COUNTY OF OAKLAND                 )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Acacia Park CSO Drain, Oakland County, Michigan, held on the 22<sup>nd</sup> day of June, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Acacia Park CSO Drain Drainage District.



---

Jim Nash, Chairperson

Dated: June 22, 2021

OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: Jim Nash, Chairman  
Acacia Park CSO Drainage Board  
Birmingham CSO Drainage Board  
Bloomfield Village CSO Drainage Board

FROM: Brian Coburn, Chief Engineer

SUBJECT: RTB Capacity Use Credit  
Third Quarter, FY 2021  
April, May, June 2021

DATE: July 27, 2021

Requested Action: Approve the RTB Capacity Use Credit to the CSO Districts of  
Acacia Park, Birmingham and Bloomfield Village, as listed below:

RTB CAPACITY USE OPERATIONS & MAINTENANCE CREDIT TO CSO DISTRICTS						
REGULATORS CLOSED (Date)	ACACIA PARK CSO TOTAL MCF	ACACIA PARK CREDIT (\$10.52 Per MCF)	BIRMINGHAM CSO TOTAL MCF	BIRMINGHAM CREDIT (\$10.52 Per MCF)	BLOOMFIELD VLG CSO TOTAL MCF	BLOOMFIELD VLG CREDIT (\$10.52 Per MCF)
06/21/21 - 06/21/21	0.0	\$ -	131.1	\$ 1,379.17	0.0	\$ -
06/25/21 - 06/25/21	5.0	\$ 53.02	0.0	\$ -	0.0	\$ -
06/25/21 - 06/27/21	442.8	\$ 4,658.26	811.5	\$ 8,536.98	579.6	\$ 6,097.39
06/29/21 - 06/29/21	0.0	\$ -	30.0	\$ 315.60	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
Total Credit Q3, FY 2021:		\$ 4,711.28		\$ 10,231.75		\$ 6,097.39

Approved by: 

Date: 7/19/2021

c: Olivia Olsztyn-Budry: [Oolsztyn-Budry@bloomfieldtwp.org](mailto:Oolsztyn-Budry@bloomfieldtwp.org)  
Austin Fletcher: [afletcher@bhamgov.org](mailto:afletcher@bhamgov.org)  
Karyn Stickel: [Kstickel@hrc-eng.com](mailto:Kstickel@hrc-eng.com)

Interoffice:

J. Ragle  
T. Prince  
S. Korth  
G. Nigro  
K. Smith  
C. Arnold

Prepared by: A. Craft

MEMO TO: Mr. Jim Nash, Chairman  
of the Drainage Board for the ACACIA PARK CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting



DATE: July 27, 2021

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices  
for the period ending July 22, 2021

G/L Date	Ref No.	Paid To	For	Amount
	V # 1538369	ICS Integration Services LLC	Invoice # 2062 - Contracted Services	2,071.00
	V # 1538376	JCI Jones Chemicals Inc	Invoice # 857106 - Chlorination Supplies	1,615.53
	V # 1539710	JCI Jones Chemicals Inc	Invoice # 858503 - Chlorination Supplies	1,758.40
			Total	<u>\$ 5,444.93</u>

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the ACACIA PARK CSO DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting



**DATE:** July 27, 2021

**SUBJECT:** Request for Reimbursement of Evergreen Farmington Fund

The following is a detail of charges paid from the Evergreen Farmington Fund  
for the period ending July 20, 2021.

<u>Date</u>	<u>Ref No.</u>	<u>For</u>	<u>Amount</u>
06/30/21	JE# 360308	June 2021 Storm Water Flow Charges	\$31,955.84
		RTB Capacity Use (O & M Credit)	(\$4,711.28)
			<u>\$27,244.56</u>

## **2. Birmingham CSO**

## **AGENDA**

### **DRAINAGE BOARD FOR THE BIRMINGHAM CSO DRAIN**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of June 22, 2021
3. Public Comments
4. Present Memorandum for receive and file of the RTB Capacity Use Credit for the third quarter FY 2021
5. Present request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$19,367.06
6. Present request for reimbursement of the Evergreen Farmington Fund in the amount of \$23,183.51
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE BIRMINGHAM CSO DRAIN**

June 22, 2021

A meeting of the Drainage Board for the Birmingham CSO Drain was held at 2:00 p.m. on the 22<sup>nd</sup> day of June, 2021. Due to the COVID-19 pandemic, the meeting was conducted electronically via GoToMeeting in accordance with PA 254 of 2020, as may be amended from time to time and/or as otherwise provided by law.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from Farmington Hills, Michigan.

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners, participating from Novi, Michigan.

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners.

Minutes of the meeting held May 18, 2021 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

Chairperson Nash asked if there were any public comments. There were none.

A request for approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$2,670.50 (as attached) was presented. It was moved by Markham, supported by Nash, to approve the payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$2,670.50.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

A request for reimbursement of the Evergreen Farmington Fund in the amount of \$33,415.26 (as attached) was presented. It was moved by Markham, supported by Nash, to reimburse the Evergreen Farmington Fund in the amount of \$33,415.26.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

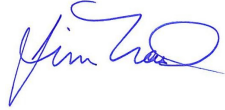


ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

There being no further business, the meeting was adjourned.



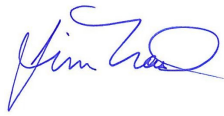
---

Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Birmingham CSO Drain, Oakland County, Michigan, held on the 22<sup>nd</sup> day of June, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Birmingham CSO Drain Drainage District.



---

Jim Nash, Chairperson

Dated: June 22, 2021

OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: Jim Nash, Chairman  
Acacia Park CSO Drainage Board  
Birmingham CSO Drainage Board  
Bloomfield Village CSO Drainage Board

FROM: Brian Coburn, Chief Engineer

SUBJECT: RTB Capacity Use Credit  
Third Quarter, FY 2021  
April, May, June 2021

DATE: July 27, 2021

Requested Action: Approve the RTB Capacity Use Credit to the CSO Districts of  
Acacia Park, Birmingham and Bloomfield Village, as listed below:

RTB CAPACITY USE OPERATIONS & MAINTENANCE CREDIT TO CSO DISTRICTS						
REGULATORS CLOSED (Date)	ACACIA PARK CSO TOTAL MCF	ACACIA PARK CREDIT (\$10.52 Per MCF)	BIRMINGHAM CSO TOTAL MCF	BIRMINGHAM CREDIT (\$10.52 Per MCF)	BLOOMFIELD VLG CSO TOTAL MCF	BLOOMFIELD VLG CREDIT (\$10.52 Per MCF)
06/21/21 - 06/21/21	0.0	\$ -	131.1	\$ 1,379.17	0.0	\$ -
06/25/21 - 06/25/21	5.0	\$ 53.02	0.0	\$ -	0.0	\$ -
06/25/21 - 06/27/21	442.8	\$ 4,658.26	811.5	\$ 8,536.98	579.6	\$ 6,097.39
06/29/21 - 06/29/21	0.0	\$ -	30.0	\$ 315.60	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
Total Credit Q3, FY 2021:		\$ 4,711.28		\$ 10,231.75		\$ 6,097.39

Approved by: 

Date: 7/19/2021

c: Olivia Olsztyn-Budry: [Oolsztyn-Budry@bloomfieldtwp.org](mailto:Oolsztyn-Budry@bloomfieldtwp.org)  
Austin Fletcher: [afletcher@bhamgov.org](mailto:afletcher@bhamgov.org)  
Karyn Stickel: [Kstickel@hrc-eng.com](mailto:Kstickel@hrc-eng.com)

Interoffice:

J. Ragle  
T. Prince  
S. Korth  
G. Nigro  
K. Smith  
C. Arnold

Prepared by: A. Craft

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the BIRMINGHAM CSO DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting



**DATE:** July 27, 2021

**SUBJECT:** Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices  
for the period ending July 20, 2021

G/L Date	Ref No.	Paid To	For	Amount
	V # 1538371	ICS Integration Services LLC	Invoice # 2074 - Contracted Services	\$ 2,071.00
	V # 1538372	ICS Integration Services LLC	Invoice # 2100 - Contracted Services	1,199.00
	V # 1538381	Kennedy Industries, Inc	Invoice # 625631 - Contracted Services	12,600.67
	V # 1538377	JCI Jones Chemicals Inc	Invoice # 858178 - Chlorination Supplies	3,496.39
			<b>Total</b>	<b><u>\$ 19,367.06</u></b>

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the BIRMINGHAM CSO DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting



**DATE:** July 27, 2021

**SUBJECT:** Request for Reimbursement of Evergreen Farmington Fund

The following is a detail of charges paid from the Evergreen Farmington Fund  
for the period ending July 20, 2021.

<u>Date</u>	<u>Ref No.</u>	<u>For</u>	<u>Amount</u>
06/30/21	JE# 360308	June 2021 Storm Water Flow Charges	\$33,415.26
		RTB Capacity Use (O & M Credit)	<b>(\$10,231.75)</b>
			<u>\$23,183.51</u>

### **3. Bloomfield Village CSO**

## **AGENDA**

### **DRAINAGE BOARD FOR THE BLOOMFIELD VILLAGE CSO DRAIN**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of June 22, 2021
3. Public Comments
4. Present Memorandum for receive and file of the RTB Capacity Use Credit for the third quarter FY 2021
5. Present request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$13,160.06
6. Present request for reimbursement of the Evergreen Farmington Fund in the amount of \$36,076.28
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE BLOOMFIELD VILLAGE CSO DRAIN**

June 22, 2021

A meeting of the Drainage Board for the Bloomfield Village CSO Drain was held at 2:00 p.m. on the 22<sup>nd</sup> day of June, 2021. Due to the COVID-19 pandemic, the meeting was conducted electronically via GoToMeeting in accordance with PA 254 of 2020, as may be amended from time to time and/or as otherwise provided by law.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from Farmington Hills, Michigan.

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners, participating from Novi, Michigan.

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners.

Minutes of the meeting held May 18, 2021 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

Chairperson Nash asked if there were any public comments. There were none.

A request for reimbursement of the Evergreen Farmington Fund in the amount of \$42,173.67 (as attached) was presented. It was moved by Markham, supported by Nash, to reimburse the Evergreen Farmington Fund in the amount of \$42,173.67.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

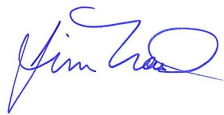
It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

There being no further business, the meeting was adjourned.



---

Jim Nash, Chairperson



STATE OF MICHIGAN                     )  
  )SS.  
COUNTY OF OAKLAND                 )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Bloomfield Village CSO Drain, Oakland County, Michigan, held on the 22<sup>nd</sup> day of June, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Bloomfield Village CSO Drain Drainage District.



---

Jim Nash, Chairperson

Dated: June 22, 2021

OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER

MEMORANDUM

TO: Jim Nash, Chairman  
Acacia Park CSO Drainage Board  
Birmingham CSO Drainage Board  
Bloomfield Village CSO Drainage Board

FROM: Brian Coburn, Chief Engineer

SUBJECT: RTB Capacity Use Credit  
Third Quarter, FY 2021  
April, May, June 2021

DATE: July 27, 2021

Requested Action: Approve the RTB Capacity Use Credit to the CSO Districts of  
Acacia Park, Birmingham and Bloomfield Village, as listed below:

RTB CAPACITY USE OPERATIONS & MAINTENANCE CREDIT TO CSO DISTRICTS						
REGULATORS CLOSED (Date)	ACACIA PARK CSO TOTAL MCF	ACACIA PARK CREDIT (\$10.52 Per MCF)	BIRMINGHAM CSO TOTAL MCF	BIRMINGHAM CREDIT (\$10.52 Per MCF)	BLOOMFIELD VLG CSO TOTAL MCF	BLOOMFIELD VLG CREDIT (\$10.52 Per MCF)
06/21/21 - 06/21/21	0.0	\$ -	131.1	\$ 1,379.17	0.0	\$ -
06/25/21 - 06/25/21	5.0	\$ 53.02	0.0	\$ -	0.0	\$ -
06/25/21 - 06/27/21	442.8	\$ 4,658.26	811.5	\$ 8,536.98	579.6	\$ 6,097.39
06/29/21 - 06/29/21	0.0	\$ -	30.0	\$ 315.60	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
	0.0	\$ -	0.0	\$ -	0.0	\$ -
Total Credit Q3, FY 2021:		\$ 4,711.28		\$ 10,231.75		\$ 6,097.39

Approved by: 

Date: 7/19/2021

c: Olivia Olsztyn-Budry: [Oolsztyn-Budry@bloomfieldtwp.org](mailto:Oolsztyn-Budry@bloomfieldtwp.org)  
Austin Fletcher: [afletcher@bhamgov.org](mailto:afletcher@bhamgov.org)  
Karyn Stickel: [Kstickel@hrc-eng.com](mailto:Kstickel@hrc-eng.com)

Interoffice:

J. Ragle  
T. Prince  
S. Korth  
G. Nigro  
K. Smith  
C. Arnold

Prepared by: A. Craft

MEMO TO: Mr. Jim Nash, Chairman  
of the Drainage Board for the BLOOMFIELD VILLAGE CSO DRAIN

FROM: Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting



DATE: July 27, 2021

SUBJECT: Request for Approval of Invoices

The following is a detail of Maintenance charges paid from the Drain Revolving Fund and Invoices  
for the period ending July 20, 2021

G/L Date	Ref No.	Paid To	For	Amount
	V # 1538375	JCI Jones Chemicals Inc	Invoice # 857105 - Chlorination Supplies	\$ 1,884.00
	V # 1539711	JCI Jones Chemicals Inc	Invoice # 858504 - Chlorination Supplies	1,884.00
	V # 1539066	Alexander Chemical Corporation	Invoice # 41082 - Chlorination Supplies	7,321.06
	V # 1538370	ICS Integration Services LLC	Invoice # 2073- Contracted Services	2,071.00
			Total	<u>\$ 13,160.06</u>

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the BLOOMFIELD VILLAGE CSO DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting



**DATE:** July 27, 2021

**SUBJECT:** Request for Reimbursement of Evergreen Farmington Fund

The following is a detail of charges paid from the Evergreen Farmington Fund  
for the period ending July 20, 2021.

<u>Date</u>	<u>Ref No.</u>	<u>For</u>	<u>Amount</u>
06/30/21	JE# 360308	June 2021 Storm Water Flow Charges	\$42,173.67
		RTB Capacity Use (O & M Credit)	<b>(\$6,097.39)</b>
			<u><u>\$36,076.28</u></u>

## **4. Clinton River Water Resource Recovery Facility**

## **AGENDA**

### **DRAINAGE BOARD FOR THE CLINTON RIVER WATER RESOURCE RECOVERY FACILITY**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of June 22, 2021
3. Public Comments
4. Present Memorandum from Carrie Cox, Chief Engineer, and Mike Daniels, Chief WRC Water Resource Recovery, Clinton River WRRF, dated July 27, 2021, requesting the Board receive and file the 2021 Drainage District Asset Management Plan.
5. Present request for Board approval of payment of invoices from the Construction Fund in the amount \$34,114.87
6. Present request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$240,865.48
7. Other business
8. Approve pro rata payment to Drainage Board members
9. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE CLINTON RIVER WATER RESOURCE RECOVERY FACILITY**

June 22, 2021

A meeting of the Drainage Board for the Clinton River Water Resource Recovery Facility was held at 2:00 p.m. on the 18<sup>th</sup> day of May, 2021. Due to the COVID-19 pandemic, the meeting was conducted electronically via GoToMeeting in accordance with PA 254 of 2020, as may be amended from time to time and/or as otherwise provided by law.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from Farmington Hills, Michigan.

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners, participating from Novi, Michigan.

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners.

Minutes of the meeting held May 18, 2021 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

Chairperson Nash asked if there were any public comments. There were none.

A Memorandum from Sara Rubino, WRC Attorney, dated June 22, 2021, requesting the Board approve the Lease Agreement with Motor City Electric, Co. and authorize the Chairperson to execute the agreement was presented. It was moved by Markham, supported by Nash, to approve the Lease Agreement with Motor City Electric, Co. and authorize the Chairperson to execute the agreement as presented.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

A Memorandum from John Basch, WRC Attorney, dated June 22, 2021, requesting the Board receive and file the update regarding billboard leases was presented. It was moved by Markham, supported by Nash, to receive and file the update regarding billboard leases as presented.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

A Memorandum from Ben Lewis, P.E., Manager, dated June 22, 2021, requesting the Board receive and file the revised Drainage District PFAS evaluation and source tracking final technical memo was presented. It was moved by Markham, supported by Nash, to receive and file the revised PFAS evaluation and source tracking final technical memo as presented.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

A request for Board approval of payment of invoices from the Construction Fund in the amount of \$36,744.10 (as attached) was presented. It was moved by Markham, supported by Nash, that the invoices in the amount of \$36,744.10 be paid as presented.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

A request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund from the Maintenance Fund in the amount of \$179,852.51 (as attached) was presented. It was moved by Markham, supported by Nash, that the invoices in the amount of \$179,852.51 be paid as presented.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

There being no further business, the meeting was adjourned.



---

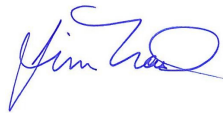
Jim Nash, Chairperson



STATE OF MICHIGAN                     )  
  )SS.  
COUNTY OF OAKLAND                 )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Clinton River Water Resource Recovery Facility, Oakland County, Michigan, held on the 22<sup>nd</sup> day of June, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Clinton River Water Resource Recovery Facility Drainage District.



---

Jim Nash, Chairperson

Dated: June 22, 2021

**OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER**

**MEMORANDUM**

**TO:** Jim Nash, Chairman  
Drainage Board for the Clinton River Water Resource Recovery Facility (CRWRRF)

**FROM:** Carrie Ricker Cox – Chief Engineer  
Michael B. Daniels – Chief WRC Water Resource Recovery, Clinton River WRRF

**SUBJECT:** Annual Asset Management Plan

**DATE:** July 27, 2021

The Clinton River Water Resource Recovery Facility (and Pontiac Sewer Disposal System) are under a National Pollutant Discharge Elimination System (NPDES) permit which has asset management program requirements. One of these requirements is to provide a written report annually that summarizes the asset management activities completed during the previous year. The report is required to include:

1. A description of staffing levels for previous year
2. A description of inspection, maintain and corrective actions
3. Expenditures for collection and treatment work maintenance activities, corrective action and capital improvements
4. Summary of assets identified for inspection or action (including capital improvement) for the upcoming year
5. Maintenance Budget and capital improvement budget for upcoming year
6. Updated asset inventory
7. Updated Operations, Maintenance and Replacement (OM&R) budget with an updated rate schedule

The attached Asset Management Plan meets all requirements of the NPDES permit.

**Recommended Actions:**  
**Receive and File the 2021 CRWRRF Asset Management Plan**



# Oakland County Pontiac WWTF & Sewer System Annual Report

---

AMP Submittal (NPDES No. MI0023825)

July 12, 2021

## Contents

1.	Introduction .....	1
2.	Asset Management Plan Annual Reporting Requirements .....	1
2.1	Staffing .....	1
2.2	Inspection, Maintenance and Corrective Action Activities .....	1
2.3	Assets/Areas identified for Inspection/Action .....	2
2.4	Capital Improvement Budget and Maintenance Budget .....	3
2.5	Asset Inventory .....	5
2.6	Operations, Maintenance & Replacement Budget .....	5

## Tables

Table 1.....	Work Order Summary
Table 2.....	CRWWRF Capital Expenses and Reserves
Table 3.....	Pontiac Collection System Capital Expenses and Reserves

## Appendices

Appendix A.....	Staff Information
Appendix B .....	Long Range Planning and Collection System Projects
Appendix C .....	Maintenance and Debt Assessment
Appendix D.....	Asset Summary
Appendix E .....	Sewer Rates

## 1. Introduction

The Oakland County Water Resources Commissioner (WRC) operates the Pontiac Wastewater Treatment Facility and collection system. The WWTP operates under the National Pollutant Discharge Elimination System (NPDES) Permit No. MI0023825. The permit expired October 1, 2020, and is in the process of being renewed.

The treatment facility underwent a name change and is now known as the Clinton River Water Resource Recovery Facility (CRWRRF). Due to the transitional nature in changing names, some of the information presented may be under the Pontiac WWTF name or it will be under the CRWRRF name. They function as the same facility. The collection system is still known as the Pontiac Collection System.

The following Annual Report was prepared as part of the Asset Management Requirements in the NPDES Permit, Part I, Section A.8.b.

## 2. Asset Management Plan Annual Reporting Requirements

The following information summarizes the asset management activities completed during the previous year and plans for the upcoming years.

### 2.1 Staffing

The CRWRRF is operated 24 hours a day, 7 days a week, 365 days a year. The facility maintains adequate staffing. We are still seeking to strategically fill critical leadership positions and have been actively recruiting for those positions. The sewer collection system also maintains adequate staffing. Refer to Appendix A for the current staffing of the CRWRRF and the collection system.

### 2.2 Inspection, Maintenance and Corrective Action Activities

The WRC uses a Collaborative Asset Management System (CAMS) to track work order history. This work order system began implementation in 2018 as part of the office's asset management plan. WRC uses different work order types to track Inspection, Predictive, Preventive and Corrective Action work activities in CAMS. Inspection work orders are used to track the formal evaluations of an asset. Predictive work orders capture activities designed to help determine the condition of in-service assets in order to estimate when maintenance should be performed. This includes techniques such as vibration analysis and thermal imaging. Preventive work orders are used to record maintenance tasks that avoid or mitigate the failure of an asset and intend to prevent failure from occurring so the asset will reach its intended useful life. These are tasks such as oil/filter changes, cleaning and general maintenance. Corrective work orders record the repair, partial rebuilding and replacement of an asset. Table 1 shows the quantity of these work orders for both the CRWRRF and the Pontiac Collection System as well completion costs for the period from August 1, 2020 to July 1, 2021. Staff continues to receive training to ensure costs are captured correctly. As seen below, we are beginning to collect data that can be used to make decisions directing invests for labor and other resources.

**Table 1. Work Order Summary**

	<i>CRWRRF</i>		<i>Pontiac Collection System</i>	
<i>Work Order Type</i>	<i># of Work Orders</i>	<i>Cost</i>	<i># of Work Orders</i>	<i>Cost</i>
Inspection	204	\$9,764.81	1,619*	\$532,913.37
Predictive Maintenance	109	\$17,487.47	71	\$15,800.26
Preventive Maintenance	2,371	\$235,939.01	57	\$29,540.66
Corrective Maintenance	480	\$824,242.42	251	\$1,398,813.23

\*Collection system inspections include cleaning and CCTV work

## 2.3 Assets/Areas identified for Inspection/Action

Each year, the WRC reviews and implements a Long Range Plan (LRP) that identifies critical equipment in need of major maintenance or replacement. Traditionally, this CRWRRF equipment was identified through conversations with field staff and inspections/studies performed on the system. The asset management software captures additional information on key assets including probability of failure and consequence of failure. This additional information is also considered as assets are reviewed for further inspection and/or improvement. CRWRRF LRPs for fiscal years 2021 through 2026 are shown in Appendix B.

The Pontiac Collection System also uses the LRP process to identify pipe lining, replacement, grouting, pipe patching and pump station projects. An overview of collection system projects with work planned to occur in the 2021 through 2026 fiscal years are also shown in Appendix B.

## 2.4 Capital Improvement Budget and Maintenance Budget

Capital improvement costs are captured through our Reserve Programs. Our reserve programs are based on our fiscal year which runs from October 1 through September 30. These costs are for revenue financed projects and do not include capital costs funded by bonds, grants or loans. Capital costs for both the CRWRRF and the Pontiac Collection System are presented below. Major Maintenance expenses and projects are provided in Appendix B.

**Table 2. CRWRRF Capital Expenses and Reserves**

<i>Item Description</i>	<i>Actual FY2020</i>	<i>Budgeted FY2021</i>	<i>Proposed FY2022</i>
ACO Tank Design	\$0	\$0	\$500,000
Admin Building Rehab	\$1,739,831	\$250,000	\$0
Aeration Tank Rehab	\$383	\$0	\$0
Auburn 50HP Blower	\$0	\$150,000	\$0
Biodrying Demonstration	\$0	\$49,000	\$0
Biosolids Finishing Projects	\$0	\$250,000	\$0
Biosolids Phase 2 (Non-Project Costs)	\$141,682	\$27,564	\$0
Capital Improvement Reserve	\$166,527	\$0	\$0
CRWRRF 2020 Vibration Analysis	\$7,428	\$0	\$10,000
CRWRRF Electrical Grounding	\$35,134	\$239,866	\$0
CRWRRF Security Upgrades	\$0	\$20,000	\$20,000
CRWRRF Sodium Hypo Line Replacement	\$0	\$442,200	\$0
CRWRRF Unplanned Capital Improvements	\$0	\$50,000	\$50,000
Diffuser Replacement	\$0	\$100,000	\$100,000
Disinfection Upgrade	\$0	\$28,677	\$0
East Blvd Aeration Blower Replace	\$37,924	\$125,373	\$0
East Blvd Primary Sludge Pump Replace	\$26,507	\$75,000	\$0
East Blvd Tertiary Backwash Actuator	\$0	\$30,130	\$0
East Blvd Water Filtration Process Water	\$0	\$0	\$75,000
I&C Improvements and Replacements	\$0	\$30,000	\$15,000
Incorrect Charge - to be reversed FY2021	\$8,788	\$0	\$0
Instrument Upgrade	\$1,271	\$0	\$0
Lab – Coliform Equip/Other Equip	\$0	\$0	\$15,000
Lab Equipment	\$0	\$40,000	\$0
Odor Control Study	\$0	\$108,000	\$0
Plant Influent Sampler Project	\$0	\$20,000	\$0
Roof Repair/Replace – Various Buildings	\$48	\$0	\$0
Tertiary Filter Study	\$38,580	\$31,420	\$0
Vehicle and Equipment Replacements	\$0	\$40,000	\$0
<b>Annual Capital Expense</b>	<b>\$2,204,103</b>	<b>\$2,107,230</b>	<b>\$785,000</b>

**Table 3. Pontiac Collection System Capital Expenses and Reserves**

<i>Item Description</i>	<i>Actual FY 2020</i>	<i>Budgeted FY2021</i>	<i>Proposed FY2022</i>
2018 CIPP Lining	\$43,183	\$0	\$0
Arlene PS Replace VFD Pump 1 & 2	\$0	\$60,000	\$0
Bay Street PS Overhaul	\$0	\$759,000	\$157,000
Bay Street/Silverdome Sewer Rehab	\$108,028	\$2,585,851	\$0
Cell to Radio SCADA	\$0	\$45,000	\$5,000
City Hall Sanitary Replacement	\$0	\$250,000	\$0
Doctor's Hospital Lining	\$36,479	\$0	\$0
Emergency CIPP 3 Lines	\$0	\$70,000	\$0
Highwood PS Replace VFD Pump 1 & 2	\$0	\$15,000	\$0
Hillside Sewer Replacement	\$1,790	\$0	\$0
Lift Station Control Panel Replacements (10)	\$1,047	\$765,000	\$70,000
Lining Program (2019 Project)	\$15,541	\$484,459	\$0
Michigan CIPP Lining	\$79,094	\$0	\$0
Mill and University	\$96	\$0	\$0
Miller Street Sewer Replacement	\$33,206	\$0	\$0
MLK Cast Iron Force Main Study	\$11,225	\$18,775	\$0
North Opdyke PS Replace VFD Pump 1 & 2	\$0	\$50,000	\$0
North Saginaw PS Replace VFD Pump 1 & 2	\$0	\$30,000	\$0
Oakland Siphon Gate Replacement	\$49,013	\$40,987	\$0
Perry-Saginaw-Omar Rehab	\$710,999	\$295,293	\$0
Pipe Lining/Replacement	\$0	\$930,000	\$2,000,000
South Opdyke LS Generator Replacement	\$47,390	\$122,610	\$0
Unplanned Capital Improvements	\$0	\$320,000	\$320,000
Lift Station Capital Improvements	\$0	\$969,000	\$162,000
Vehicle/Equipment Replacement	\$0	\$15,000	\$110,000
<b>Annual Capital Expense</b>	<b>\$1,137,092</b>	<b>\$7,825,975</b>	<b>\$2,824,000</b>

The budget for Operating Expenses as well as the Major Maintenance, Emergency, and Capital Improvement Reserves are noted on the *Maintenance and Debt Assessment Recommendation* sheets shown in Appendix C.



## **2.5 Asset Inventory**

The asset inventory for the CRWRRF and the Pontiac Collection System is kept in our GIS system and is managed by the Mapping Services unit with input from the Operations team. As projects are completed and assets are added/removed, the GIS database is updated. An asset summary for both systems are shown in Appendix D.

## **2.6 Operations, Maintenance & Replacement Budget**

Refer to the attached facility assessments in Appendix C and the sewer Billing Summary in Appendix E. There are currently sufficient revenues to fund system maintenance and capital improvement activities in both the CRWRRF and the Pontiac Collection System.

## Appendix A

### Staff Information

## Appendix A – Staff Information

Employees in Classification By Unit		Total # Employees in Classification		
SubOrg	Classification	8/1/2019	8/1/2020	8/1/2021
CRWRRF	Chemist	2	2	2
CRWRRF	Chief – Water Resource Recovery	1	1	1
CRWRRF	Assistant Chief – Water Resource Recovery	0	1	1
CRWRRF	Engineering Systems Coordinator	1	1	1
CRWRRF	Maintenance Laborer	2	0	0
CRWRRF	Maintenance Laborer - WRC	0	1	0
CRWRRF	Pump Maintenance Mechanic I	2	4	3
CRWRRF	Pump Maintenance Mechanic II	1	0	2
CRWRRF	Sewage Treatment Plant (WRR) Operator I	3	1	2
CRWRRF	Sewage Treatment Plant (WRR) Operator II	0	2	3
CRWRRF	Sewage Treatment Plant (WRR) Operator Trainee	6	8	6
CRWRRF	Sewage Treatment (WRR) Supervisor I	1	1	2
CRWRRF	Sewage Treatment (WRR) Supervisor II	1	2	2
CRWRRF	Skilled Maintenance Mechanic III	2	2	2
CRWRRF	Technical Assistant	1	1	1
CRWRRF	Boiler Mechanic	1	1	1
CRWRRF	WRC Industrial Pre-Treatment Supervisor	1	1	1
CRWRRF	WRC Crew Leader - Sewage Treatment	1	1	1
CRWRRF	Pump Maintenance Supervisor I	1	0	0
CRWRRF	Pump Maintenance Supervisor II	0	1	1
CRWRRF	Cross Connection & Pre-Treatment Coordinator	0	1	1
CRWRRF	Assistant Chief Engineer	0	1	1
Sewer Maintenance	Automobile Mechanic II	1	1	1
Sewer Maintenance	Engineering Technician	1	1	1
Sewer Maintenance	Maintenance Laborer	7	0	0
Sewer Maintenance	Maintenance Laborer - WRC	0	7	10
Sewer Maintenance	Maintenance Mechanic I	6	6	4
Sewer Maintenance	Maintenance Mechanic II	5	5	6
Sewer Maintenance	Seasonal Laborer	1	1	0
Sewer Maintenance	Sewer Maintenance Supervisor I	3	3	3
Sewer Maintenance	Sewer Maintenance Supervisor II	1	1	1
Sewer Maintenance	WRC Crew Leader - Water & Sewer	4	3	7
Sewer Maintenance	Engineering System Coordinator	1	1	1
Sewer Maintenance	Office Assistant I	0	1	0
Sewer Maintenance	Office Assistant II	1	0	0
Sewer Maintenance	Office Support Clerk - Senior	0	0	1
Sewer Maintenance	General Helper	0	1	0

## Appendix B

### Long Range Planning and Collection System Projects

## Appendix B – Long Range Planning and Collection System Projects

### Clinton River Water Resource Recovery Facility

#### Projected Expenditures

Major Maintenance Reserve						
Description	FY 2021 Budgeted	FY 2022 Projected	FY 2023 Projected	FY 2024 Projected	FY 2025 Projected	FY 2026 Projected
360 Water Training	\$80,000	\$30,000	\$30,000	\$0	\$0	\$0
Auburn Weir Improvements	\$10,000	\$0	\$0	\$0	\$0	\$0
Biosolids Re-use & Customer Investment	\$50,000	\$0	\$100,000	\$0	\$0	\$0
CAMP (PowerPlan)	\$82,718	\$97,347	\$100,270	\$103,280	\$106,380	\$109,570
Crane Repair	\$40,000	\$40,000	\$0	\$0	\$0	\$0
CRWRRF 2019 Studies: Project Evaluation & Selection Study	\$48,000	\$0	\$0	\$0	\$0	\$0
CRWRRF CBHP Co-Gen and Electrical	\$412,000	\$0	\$0	\$0	\$0	\$0
CRWRRF Operations Optimization	\$85,900	\$0	\$0	\$0	\$0	\$0
CRWRRF Stand Piping Replacement	\$121,000	\$0	\$0	\$0	\$0	\$0
CRWRRF Teritary SCADA Improvements	\$31,000	\$0	\$0	\$0	\$0	\$0
CRWRRF WRC LAB Data Mgmt	\$8,378	\$0	\$0	\$0	\$0	\$0
East Blvd Access Drive Repair	\$25,000	\$25,000	\$25,000	\$25,000	\$0	\$0
East Blvd Deck Inspection	\$50,000	\$0	\$0	\$0	\$0	\$0
East Blvd Tanks 3 & 4 Weirs and Baffles	\$0	\$55,000	\$0	\$0	\$0	\$0
East Blvd Weirs and Baffles 2019	\$55,000	\$0	\$0	\$0	\$0	\$0
Effluent Joint Repair (400-500ft)	\$100,000	\$0	\$0	\$0	\$0	\$0
Electrical Assessments	\$11,000	\$10,000	\$0	\$10,000	\$0	\$10,000
Facilities Repairs	\$50,000	\$30,000	\$30,000	\$20,000	\$20,000	\$20,000
MCC Re-location	\$0	\$0	\$0	\$100,000	\$0	\$0
PFAS Study	\$54,368	\$0	\$0	\$0	\$0	\$0
CRWRRF Pump Rebuilds	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Valve & Gate Replacement	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
WWTP Major Maint Unplanned	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
<b>Annual Major Maintenance Expense</b>	<b>\$1,489,364</b>	<b>\$ 462,347</b>	<b>\$ 460,270</b>	<b>\$ 433,280</b>	<b>\$ 301,380</b>	<b>\$ 314,570</b>

Capital Reserve						
Description	FY 2021 Budgeted	FY 2022 Projected	FY 2023 Projected	FY 2024 Projected	FY 2025 Projected	FY 2026 Projected
ACO Tank Design	\$0	\$500,000	\$500,000	\$500,000	\$0	\$0
Admin Building Rehab	\$250,000	\$0	\$0	\$0	\$0	\$0
Aeration Tank Rehab	\$0	\$0	\$0	\$0	\$0	\$0
Auburn 50HP Blower Replacement	\$150,000	\$0	\$0	\$0	\$0	\$0
Biodrying Demonstration	\$49,000	\$0	\$0	\$0	\$0	\$0
Biosolids Finishing Projects	\$250,000	\$0	\$0	\$0	\$0	\$0
Biosolids Phase 2 (Non-Project Costs)	\$27,564	\$0	\$0	\$0	\$0	\$0
Capital Improvement Reserve	\$0	\$0	\$0	\$0	\$0	\$0
CRWRRF 2020 Vibration Analysis	\$0	\$10,000	\$0	\$10,000	\$0	\$10,000
CRWRRF Electrical Grounding	\$239,866	\$0	\$0	\$0	\$0	\$0
CRWRRF Security Upgrades	\$20,000	\$20,000	\$0	\$0	\$0	\$0
CRWRRF Sodium Hypo Line Replacement	\$442,200	\$0	\$0	\$0	\$0	\$0
CRWRRF Unplanned Capital Improvements	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Diffuser Replacement	\$100,000	\$100,000	\$100,000	\$100,000	\$0	\$0
Disinfection Upgrade	\$28,677	\$0	\$0	\$0	\$0	\$0
East Blvd Access Drive Replacement	\$0	\$0	\$0	\$0	\$300,000	\$0
East Blvd Aeration Blower Replacement	\$125,373	\$0	\$0	\$0	\$0	\$0
East Blvd Primary Sludge Pump Replacement	\$75,000	\$0	\$0	\$0	\$0	\$0
East Blvd Tertiary Backwash Actuator	\$30,130	\$0	\$0	\$0	\$0	\$0
East Blvd Water Filtration Process Water	\$0	\$75,000	\$0	\$0	\$0	\$0
I&C Improvements and Replacements	\$30,000	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Incorrect Project charged to CRWRRF	\$0	\$0	\$0	\$0	\$0	\$0
Instrument Upgrade	\$0	\$0	\$0	\$0	\$0	\$0
Lab – Coliform Equip/Other Equip	\$0	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000
Lab Equipment	\$40,000	\$0	\$0	\$0	\$0	\$0

Odor Control Study	\$108,000	\$0	\$0	\$0	\$0	\$0
Plant Influent Sampler Project	\$20,000	\$0	\$0	\$0	\$0	\$0
Roof Repair/Replace – Various Buildings	\$0	\$0	\$0	\$0	\$0	\$0
Tertiary Filter Study	\$31,420	\$0	\$0	\$0	\$0	\$0
Vehicle and Equipment Replacements	\$40,000	\$0	\$120,000	\$0	\$120,000	\$0
<b>Annual Capital Expense</b>	<b>\$2,107,230</b>	<b>\$ 785,000</b>	<b>\$ 800,000</b>	<b>\$ 690,000</b>	<b>\$ 500,000</b>	<b>\$ 90,000</b>

## Pontiac Collection System

### Projected Expenditures

Major Maintenance Reserve						
Description	FY 2021 Budgeted	FY 2022 Projected	FY 2023 Projected	FY 2024 Projected	FY 2025 Projected	FY 2026 Projected
Arlene Driveway Rehab	\$8,000	\$0	\$0	\$0	\$0	\$0
Arlene PS Rebuild Sewage Pump 1 & 2	\$10,000	\$0	\$0	\$0	\$0	\$20,000
Birchcrest PS Rebuild Sewage Pump 1 & 2	\$10,000	\$0	\$0	\$0	\$10,000	\$0
Fern PS Rebuild Sewage Pump 1	\$5,000	\$0	\$0	\$0	\$5,000	\$0
Fern PS Rebuild Sewage Pump 2	\$5,000	\$0	\$0	\$0	\$0	\$5,000
Grandville PS Rebuild Sewage Pump 1	\$5,000	\$0	\$0	\$0	\$5,000	\$0
Grandville PS Rebuild Sewage Pump 2	\$5,000	\$0	\$0	\$0	\$0	\$5,000
Grandville PS Rehab Valve Vault	\$0	\$20,000	\$0	\$0	\$0	\$0
Grandville PS Rehab Wet Well	\$50,000	\$0	\$0	\$0	\$0	\$0
Highwood PS Rebuild Sewage Pump 1	\$5,000	\$0	\$0	\$0	\$5,000	\$0
Highwood PS Rebuild Sewage Pump 2	\$5,000	\$0	\$0	\$0	\$0	\$5,000
North Opdyke PS Rebuild Sewage Pump 1 & 2	\$30,000	\$0	\$0	\$0	\$0	\$30,000
North Opdyke PS Rebuild Sewage Pump 3	\$5,000	\$0	\$0	\$0	\$0	\$0
North Opdyke PS Rehab Comminutor Grinder	\$26,000	\$0	\$0	\$0	\$0	\$0
North Opdyke PS Rehab Wet Well	\$100,000	\$0	\$0	\$0	\$0	\$0
North Saginaw PS Rebuild Sewage Pump 1	\$0	\$5,000	\$0	\$0	\$0	\$5,000
North Saginaw PS Rebuild Sewage Pump 2	\$5,000	\$0	\$0	\$0	\$0	\$0
North Saginaw PS Rehab Wet Well	\$0	\$0	\$0	\$0	\$0	\$20,000
Perry Place PS Rebuild Sewage Pump 1	\$15,000	\$0	\$0	\$0	\$0	\$0
Perry Place PS Rebuild Sewage Pump 2	\$15,000	\$0	\$0	\$0	\$0	\$0
Perry Place PS Rehab Valve Vault	\$5,000	\$0	\$0	\$0	\$0	\$0
Perry Place PS Rehab Wet Well	\$10,000	\$0	\$0	\$0	\$0	\$0
POC SDS Collection System	\$251,247	\$0	\$0	\$0	\$0	\$0
POC SDS Consent Judgement	\$63,342	\$0	\$0	\$0	\$0	\$0
POC SDS CCTV Program	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000
POC SDS Excavation Spot Repair	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000
POC SDS Manhole Repairs	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
POC SDS Mass Flow Monitor Ph 2	\$243,220	\$0	\$0	\$0	\$0	\$0
POC SDS Pipe Grouting	\$200,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000
POC SDS PowerPlan Support Cost	\$33,756	\$34,770	\$35,810	\$36,880	\$37,990	\$39,130
POC SDS PS Planned Major Maintenance & Improvements	\$39,000	\$100,000	\$0	\$20,000	\$25,000	\$140,000
POC SDS System Wide Cleaning	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000
POC SDS Transducer Replacement	\$25,000	\$0	\$0	\$10,000	\$0	\$0
POC SDS Transmitter Replacement	\$30,000	\$0	\$0	\$10,000	\$0	\$0
POC SDS Trenchless Spot Repair	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
POC SDS Unplanned Major Maintenance	\$150,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000
South Opdyke PS Rebuild Sewage Pump 2	\$10,000	\$0	\$0	\$0	\$0	\$0
South Opdyke PS Rehab Wet Well	\$0	\$0	\$0	\$0	\$0	\$30,000
South Opdyke Pump 1 Repair	\$13,000	\$0	\$0	\$0	\$0	\$10,000
West Princeton PS Rebuild Sewage Pump 1	\$0	\$5,000	\$0	\$0	\$0	\$5,000
West Princeton PS Rebuild Sewage Pump 2	\$5,000	\$0	\$0	\$0	\$0	\$0
<b>Annual Major Maintenance Expense</b>	<b>\$2,832,565</b>	<b>\$2,564,770</b>	<b>\$2,435,810</b>	<b>\$2,476,880</b>	<b>\$2,487,990</b>	<b>\$2,714,130</b>

Capital Reserve						
Description	FY 2021 Budgeted	FY 2022 Projected	FY 2023 Projected	FY 2024 Projected	FY 2025 Projected	FY 2026 Projected
Arlene PS Replace Control Panel	\$120,000	\$0	\$0	\$0	\$0	\$0
Arlene PS Replace VFD Pump 1 & 2	\$60,000	\$0	\$0	\$0	\$0	\$0
Bay Street PS Overhaul	\$759,000	\$157,000	\$0	\$0	\$0	\$0
Bay Stree/Silverdome Sewer Rehab	\$2,585,851					
Birchcrest PS Replace Control Panel	\$70,000	\$0	\$0	\$0	\$0	\$0
Cell to Radio SCADA	\$45,000	\$5,000	\$0	\$0	\$0	\$0
City Hall Sanitary Replacement	\$250,000	\$0	\$0	\$0	\$0	\$0
Emergency CIPP 3 Lines	\$70,000	\$0	\$0	\$0	\$0	\$0

Fern PS Replace Control Panel	\$40,000	\$0	\$0	\$0	\$0	\$0
Grandville PS Replace Control Panel	\$90,000	\$0	\$0	\$0	\$0	\$0
Highwood PS Replace Control Panel	\$90,000	\$0	\$0	\$0	\$0	\$0
Highwood PS Replace VFD Pump 1 & 2	\$15,000	\$0	\$0	\$0	\$0	\$0
Lining Program (2019 Project)	\$484,459	\$0	\$0	\$0	\$0	\$0
MLK Cast Iron Force Main Study	\$18,775	\$0	\$0	\$0	\$0	\$0
North Opdyke PS Replace Comminutor Grinder	\$0	\$0	\$0	\$0	\$150,000	\$0
North Opdyke PS Replace Control Panel	\$95,000	\$0	\$0	\$0	\$0	\$0
North Opdyke PS Replace VFD Pump 1 & 2	\$50,000	\$0	\$0	\$0	\$0	\$0
North Opdyke PS Replace Wet Well Makeup & Exhaust Fans	\$0	\$0	\$0	\$0	\$20,000	\$0
North Saginaw PS Replace Control Panel	\$70,000	\$0	\$0	\$0	\$0	\$0
North Saginaw PS Replace VFD Pump 1 & 2	\$30,000	\$0	\$0	\$0	\$0	\$0
Oakland Siphon Gate Replacement	\$40,987	\$0	\$0	\$0	\$0	\$0
Perry Place PS Replace Control Panel	\$0	\$70,000	\$0	\$0	\$0	\$0
Perry-Saginaw-Omar Rehab	\$295,293	\$0	\$0	\$0	\$0	\$0
Pipe Lining/Replacement	\$930,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
South Opdyke PS Replace Control Panel	\$120,000	\$0	\$0	\$0	\$0	\$0
South Opdyke PS Generator Replacement	\$122,610	\$0	\$0	\$0	\$0	\$0
Unplanned Capital Improvements	\$320,000	\$320,000	\$320,000	\$320,000	\$320,000	\$0
Unplanned Lift Station Improvements	\$969,000	\$162,000	\$0	\$0	\$150,000	\$0
Vehicle/Equipment Replacement	\$15,000	\$110,000	\$10,000	\$0	\$150,000	\$0
West Princeton PS Replace Control Panel	\$70,000	\$0	\$0	\$0	\$0	\$0
<b>Annual Capital Expense</b>	<b>\$7,825,975</b>	<b>\$2,824,000</b>	<b>\$2,330,000</b>	<b>\$2,320,000</b>	<b>\$2,790,000</b>	<b>\$2,000,000</b>



## Appendix C

### Maintenance and Debt Assessment

# Appendix C – Maintenance and Debt Assessment

## OAKLAND COUNTY WATER RESOURCES COMMISSIONER OPERATIONS AND MAINTENANCE DIVISION MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE Clinton River WRRF Drain

Assessment for current fund balance and the following year of expenses: July 1, 2021 through June 30, 2022

Last Assessment (\$):	\$ 9,202,050.00
Date last assessment approved:	3/24/20
Unreserved and Undesignated Fund Balance as of 1/31/21	\$ 3,642,270.84
Capital Improvement Reserves as of 1/31/21	1,968,288.66
Major Maintenance Reserves as of 1/31/21	(1,143,105.37)
Emergency Reserves as of 1/31/21	498,750.00
Funds Available as of February 1, 2021	<u>\$ 4,966,204.13</u>

### OPERATIONS, MAINTENANCE & REPLACEMENT BUDGET for July 1, 2021 through June 30, 2022

#### Operating Expenses

Sewage Treatment	\$ 6,383,030.00
Sewer System Maintenance	\$ 183,190.00
Sewer System Engineering	\$ 182,570.00
Systems Control Unit	\$ 13,010.00
Inspection	\$ 1,060.00
IPP	\$ 27,730.00
Laboratory	\$ 438,010.00
Mapping Unit	\$ 2,110.00
General and Administrative	\$ 1,024,270.00
<b>Total Operating Expenses</b>	<b><u>\$ 8,254,980.00</u></b>

#### Revenue Requirements

Operating Expense	\$ 8,254,980.00
Major Maintenance	\$ 400,000.00
Emergency Maintenance	\$ 200,000.00
Capital	\$ 1,470,000.00
<b>Total Revenue Requirements</b>	<b><u>\$ 10,324,980.00</u></b>
Non-Rate Revenue	\$ (388,810.00)
<b>Rate Required Revenue</b>	<b><u>\$ 9,936,170.00</u></b>

#### Recommended July 1, 2021 through June 30, 2022 assessment:

Total Anticipated Expenses for July 1, 2021 - June 30, 2022	\$ 9,936,170.00
Total Anticipated Funds Needed	<u>\$ 9,936,170.00</u>

#### **TOTAL RECOMMENDED ASSESSMENT**

**\$ 9,936,170.00**

Billings are to be at the end of the calendar quarters.

Prepared by:

  
Leo Lease - Senior Financial Analyst

Date:

3/11/2021

Approved by:

  
Steve Korth - Manager, Water Resources Commissioner

Date:

March 23, 2021

## SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE CLINTON RIVER WRRF DRAIN

Public Corporation	Percentage of Apportionment	Total Amount of Assessment
City of Pontiac	55.840%	\$ 5,548,357.33
Clinton-Oakland SDS	44.160%	\$ 4,387,812.67
<b>Total</b>	<b>100.00000%</b>	<b>\$ 9,936,170.00</b>

**Assessment Due Date:** To be collected on the following quarters: 9/30/2021, 12/31/2021, 3/31/2022 and 6/30/2022.

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Clinton River WRRF Drain for the period July 1, 2021 through June 30, 2022 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.



\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Clinton River WRRF Drain

The foregoing Special Assessment Roll for the maintenance of the Clinton River WRRF Drain was approved by the Drainage Board on March 23, 2021.



\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Clinton River WRRF Drain

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**OPERATIONS AND MAINTENANCE DIVISION**  
**DEBT ASSESSMENT RECOMMENDATION FOR THE**  
**Pontiac WWTF Drain**

Assessment for current fund balance and the following year of expenses: July 1, 2021 through June 30, 2022

	<u>Debt Assessment</u>
Last Assessment (\$):	\$ 3,065,035.00
Date last assessment approved:	3/24/20
Unreserved and Undesignated Fund Balance as of 1/31/2021	\$ 15,344.45
Capital Improvement Reserves as of 1/31/2021	\$ 546,666.76
Major Maintenance Reserves as of 1/31/2021	\$ (16,875.61)
Emergency Maintenance as of 1/31/2021	\$ -
Funds Available as of February 1, 2021	<u>\$ 545,135.60</u>

**DEBT SERVICE REQUIREMENT for July 1, 2021 through June 30, 2022**

Revenue Requirements

Debt Service	\$ 5,135,870.00
<b>Total Revenue Requirements</b>	<u>\$ 5,135,870.00</u>
Non-Rate Revenue	\$ -
<b>Rate Required Revenue</b>	<u>\$ 5,135,870.00</u>

Recommended July 1, 2021 through June 30, 2022 assessment:

Total Anticipated Expenses for July 1, 2021 - June 30, 2022	\$ 5,135,870.00
Revenue from COSDS Contract	\$ (2,268,000.00)
<b>Total Anticipated Funds Needed</b>	<u>\$ 2,867,870.00</u>

**TOTAL RECOMMENDED DEBT ASSESSMENT**

\$ 2,867,870.00

Billings are to be at the end of the calendar quarters.

Prepared by: Leo Lease  
Leo Lease - Senior Financial Analyst

Date: 3/11/2021

Approved by: Steve Korth  
Steve Korth - Manager, Water Resources Commissioner

Date: March 23, 2021

## SPECIAL ASSESSMENT ROLL FOR THE DEBT OF THE PONTIAC WWTF DRAIN

Public Corporation	*Percentage of Apportionment	Total Amount of Debt Assessment
City of Pontiac	100.00%	\$ 2,867,870.00
<b>Total</b>	<b>100.00000%</b>	<b>\$ 2,867,870.00</b>

\*Apportionment based on Final Order of Apportionment dated July 17, 2012.

**Assessment Due Date for the Debt:** To be paid as the debt invoices are invoiced to Oakland County.

I hereby certify that I have prepared the Special Assessment Roll for the Debt of the Pontiac WWTF Drain for the period July 1, 2021 through June 30, 2022 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.



\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Pontiac WWTF Drain

The foregoing Special Assessment Roll for the maintenance of the Pontiac WWTF Drain was approved by the Drainage Board on March 23, 2021.



\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Pontiac WWTF Drain

## Appendix D

### Asset Summary

# ASSET SUMMARY

## Clinton River WRRF Ch20 - 82686

### Structures

Type	Count
Drain Catch Basin	2
Drain Manhole	4
Drain No Structure Inlet	2
Drain Pipe Outlet	4
Sewer Access Point	8
Sewer Cleanout	16
Sewer Manhole	8
Sewer System Valve	8

### Sites

Type	Count
Sewage Treatment Facility	2
Sewer Flow Meter	4

### Vertical Assets

1,234

### Line Assets Summary

	Total Length (FT)	Total Segments
Gravity - Sanitary	6,529	29
Gravity - Storm	666	12
Non-Gravity - Sanitary	4,769	40
<b>Totals:</b>	<b>11,964</b>	<b>81</b>

### Line Assets by Type

Material	Length (FT)	Segment Count
<b>Gravity - Sanitary</b>		
Concrete	5,307	21
Metal	1,106	6
Unknown	116	2
<b>Gravity - Storm</b>		
Concrete	168	6
Unknown	498	6
<b>Non-Gravity - Sanitary</b>		
Metal	601	32
Plastic	4,154	7
Unknown	15	1

# ASSET SUMMARY

## Pontiac Sewer - 57434

### Structures

Type	Count
Sewer Access Point	2
Sewer Cleanout	1
Sewer Manhole	6,130

### Sites

Type	Count
Sewage Lift Station	11
Sewer Flow Meter	6

### Vertical Assets

167

### Line Assets Summary

	Total Length (FT)	Total Segments
Gravity - Sanitary	1,424,779	6,532
Non-Gravity - Sanitary	13,319	28
Siphon - Sanitary	298	4
<b>Totals:</b>	<b>1,438,396</b>	<b>6,564</b>

### Line Assets by Type

Material	Length (FT)	Segment Count
<b>Gravity - Sanitary</b>		
Clay	1,076,987	4,862
Concrete	129,844	567
Corrugated Metal	6,872	9
Liner	2,422	10
Masonry	8,347	33
Metal	2,086	15
Plastic	191,570	989
Unknown	6,651	47
<b>Non-Gravity - Sanitary</b>		
Metal	11,190	19
Plastic	2,129	9
<b>Siphon - Sanitary</b>		
Concrete	298	4



## Appendix E

### Sewer Rates

# CITY OF PONTIAC SEWER SUPPLY RATES

Effective Date: July 1, 2021

Created by:

*Andrea Craft*

Engineering Technician

Approved by:

Raphael Chirolla

Digitally signed by Raphael Chirolla  
Date: 2021.06.30 08:15:58 -0400

Financial Supervisor

Approved by:

*Ben L Lewis*

Manager

## 1. Commodity Charge

**Standard Rate: \$ 38.40 per MCF**Account Name: Sewer Sales  
Account #: 632086

In City

\$ 30.56

Program

149030

Program Name

General and Administrative

-

149999

Non Operating

7.84

149666

Emergency Repair Reserve

-

149662

Major Maintenance Reserve

-

149667

Capital Improvement Reserve

Total: \$ 38.40

**Sewer Only Flat Rate\*: \$ 45.88**Account Name: REU  
Account #: Sewage Disposal  
Operating Unit: ServiceAccount #: 632086  
Operating Unit: N/A

\$ 30.44

149030

Program Name

General and Admin

1.21

149999

Non Operating

0.31

149666

Emergency Repair Reserve

4.70

149662

Major Maintenance Reserve

9.22

149667

Capital Improvement Reserve

Total: \$ 45.88

\*Where metered water not available

## 2. Fixed Monthly Charge (per MEU) Out of City Customers to pay 1.5 times in city

**\$ 22.84 Per MEU**

		<b>\$ 12.10</b>	<b>\$ 1.21</b>	<b>\$ 9.22</b>	<b>\$ 0.31</b>	
Account #:	632088	630462	632088	632088	632088	
Program or Operating Unit:	149030	149999	149667	149666	149666	
Program Name:	General and Administrative	Non Operating	Capital Improvement Reserve	Emergency Repair Reserve	Emergency Repair Reserve	
Meter Size	MEU					MEU Total
5/8"-3/4", 1" Residential	1.0	\$ 12.10	\$ 1.21	\$ 9.22	\$ 0.31	\$ 22.84
1" Commercial	2.5	30.24	3.03	23.05	0.78	57.10
1 1/2"	5.0	60.50	6.05	46.10	1.55	114.20
2"	8.0	96.80	9.68	73.76	2.48	182.72
3"	16.0	193.60	19.36	147.52	4.96	365.44
4"	25.0	302.50	30.25	230.50	7.75	571.00
6"	50.0	605.00	60.50	461.00	15.50	1,142.00
8"	80.0	968.00	96.80	737.60	24.80	1,827.20
10"	115.0	1,391.50	139.15	1,060.30	35.65	2,626.60
12"	170.0	2,057.00	205.70	1,567.40	52.70	3,882.80

## 3. Special Billings

Large Area Collection System Retail Sewage Meter Customer (Sylvan Lake and **Oakland County Complex**)**\$ 24.89 per MCF**

Note: Sylvan Lake per MEU charge to be billed at 12" Meter Size rate (see chart above).

Oakland County Complex per MEU charge to be billed at 12" Meter Size rate (see chart above).

## 4. Revision Log:

Date:	Description of Revision	Approval Signatures:
6/11/2020	Sylvan Lake New Contractual Agreement Pays Retail Sewer Meter Rate	

### Distribution:

Billing Services  
Fiscal Services  
Rates and Charges Book

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the CLINTON RIVER WATER RESOURCE RECOVERY FACILITY DRAIN - (Construction)

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting



**DATE:** July 27, 2021

**SUBJECT:** Request for Board approval of payment of the following invoices:

	Ref No.	For	Amount
CDM Smith Michigan, Inc	TBP	Invoice # 51 - Engineering Admin - 06/06/21 - 07/03/21 - Proj 1-2181	25,639.87
Dickinson Wright PLLC	V #1539621	Invoice # 1591462 - Legal Services - 05/31/21 - Proj #1-2181	8,475.00
		<b>Total for Project # 1-2181</b>	<b>\$ 34,114.87</b>

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the CLINTON RIVER WATER RESOURCE RECOVERY FACILITY DRAIN - (Maintenance)

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting

*Sj Phelps*

**DATE:** July 27, 2021

**SUBJECT:** Request for Approval of Invoices

The following is a detail of charges paid from the Drain Revolving Fund and Invoices for the period of June 16, 2021 to July 20, 2021.

Payable To	Ref No.	For	Amount
USA Blue Book	June 2021 Pcard	Pcard - Lab Supplies	\$ 1,981.27
USA Blue Book	June 2021 Pcard	Pcard - Lab Supplies	1,898.45
USA Blue Book	June 2021 Pcard	Pcard - Materials and Supplies	3,970.93
Fluke Electronics Corp	June 2021 Pcard	Pcard - Materials and Supplies	1,007.00
Polydyne Inc	V # 1538386	Invoice # 1554976 - Chemical Treatment	5,336.00
Polydyne Inc	TBP	Invoice # 1559888 - Chemical Treatment	33,361.60
Polydyne Inc	TBP	Invoice # 1560216 - Chemical Treatment	34,382.40
PVS Technologies Inc	V # 1538388	Invoice # 289548 - Chemical Treatment	10,205.28
PVS Technologies Inc	V # 1538389	Invoice # 290220 - Chemical Treatment	2,174.64
PVS Technologies Inc	V # 1538390	Invoice # 291002 - Chemical Treatment	2,134.86
PVS Technologies Inc	V # 1538391	Invoice # 291015 - Chemical Treatment	9,544.08
JCI Jones Chemicals Inc	V # 1538373	Invoice # 856735 - Chemical Treatment	2,540.16
JCI Jones Chemicals Inc	V # 1539712	Invoice # 858505 - Chemical Treatment	2,565.36
JCI Jones Chemicals Inc	V # 1541357	Invoice # 859979 - Chemical Treatment	2,487.24
JCI Jones Chemicals Inc	V # 1541508	Invoice # 859451 - Chemical Treatment	2,511.75
Professional Building Services LLC	V # 1539716	Invoice # 2492 - Contracted Services - June 2021	1,326.00
HOH Water Technology	TBP	Invoice # 607968 - Contracted Services	1,700.00
Crane Technologies	V # 1538324	Invoice # 58281 - Contracted Services - 10/27/20	1,591.50
Cummins	V # 1539327	Invoice # S6-70397 - Contracted Services	1,392.01
Waste Management	V # 1539792	Invoice # 8518489-1714-8 - Garbage & Rubbish Disposal	2,189.02
Waste Management	V # 1539567	Invoice # 8535650-1714-4 - Garbage & Rubbish Disposal	1,914.53
Waste Management	V # 1539575	Invoice # 8535651-1714-2 - Garbage & Rubbish Disposal	2,436.48
Dickinson Wright PLLC	V # 1538356	Invoice # 1591546 - Legal Services - 5/31/2021	4,948.00
Davis & Davis Law Offices PLC	V # 1541354	Invoice # OCWRC-07-06-21 - Legal Services - 06/01/21 - 07/06/21	8,228.80
Cushman & Wakefield of Illinois Inc	V # 1539619	Invoice # 21-21009-900037 - Land & Easement	7,250.00
Anixter, Inc	V # 1538287	Invoice # 508268035 - Material and Supplies	2,740.00
D3W Industries	V # 1538330	Invoice # 2521 - Material and Supplies	5,775.00
D3W Industries	V # 1538332	Invoice # 2534 - Material and Supplies	5,775.00
D3W Industries	V # 1538336	Invoice # 2547 - Material and Supplies	5,775.00
D3W Industries	TBP	Invoice # 2565 - Material and Supplies	5,775.00
<b>Subtotal</b>			<b>\$ 174,917.36</b>
Fishbeck	V # 1539631	Invoice # 402326 - Engineering Admin - Proj #1-3042	\$ 2,809.50
<b>Subtotal - Project 1-3042</b>			<b>\$ 2,809.50</b>
CH2M Hill Engineers, Inc	TBP	Invoice # 683676CH032 - Contracted Services - 7/02/21 - Proj # 1-3246	\$ 28,488.62
<b>Subtotal - Project 1-3246</b>			<b>\$ 28,488.62</b>
Hesco/Hamlett Engineering	TBP	Invoice # 20211673 - Contracted Services - Proj # 1-3243	\$ 34,650.00
<b>Subtotal - Project 1-3243</b>			<b>\$ 34,650.00</b>
<b>Total</b>			<b>\$ 240,865.48</b>

## **5. George W. Kuhn Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE GEORGE W. KUHN DRAIN**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of June 22, 2021
3. Public Comments
4. Present Construction Estimate No. 20 for Weiss Construction in the amount of \$124,202.05
5. Present request for Board approval of payment of invoices in the amount of \$117,630.15
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE GEORGE W. KUHN DRAIN**

June 22, 2021

A meeting of the Drainage Board for the George W. Kuhn Drain was held at 2:00 p.m. on the 22<sup>nd</sup> day of June, 2021. Due to the COVID-19 pandemic, the meeting was conducted electronically via GoToMeeting in accordance with PA 254 of 2020, as may be amended from time to time and/or as otherwise provided by law.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from Farmington Hills, Michigan.

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners, participating from Novi, Michigan.

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners.

Minutes of the meeting held May 18, 2021 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

Chairperson Nash asked if there were any public comments. There were none.

A Memorandum from Gary Nigro, P.E. Chief Engineer, dated June 22, 2021 requesting the Board approve the Michigan Department of Transportation (MDOT) Design & Construction and the Operations Interface Agreements related to the I-75 Modernization Segment 3 project and authorize the Chairperson to execute the agreements was presented. It was moved by Markham, supported by Nash, to approve the MDOT Design & Construction and the Operations Interface Agreements and authorize the Chairperson to execute the agreements as presented.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

A request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$43,040.46 (as attached) was presented. It was moved by Markham, supported by Nash, that the invoices in the amount of \$43,040.46 be paid as presented.

ROLL CALL VOTE:

NASH: AYE  
MARKHAM: AYE

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ROLL CALL VOTE:

NASH: AYE  
MARKHAM: AYE  
WOODWARD: AYE

There being no further business, the meeting was adjourned.



---

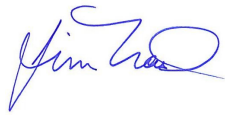
Jim Nash, Chairperson



STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the George W. Kuhn Drain, Oakland County, Michigan, held on the 22<sup>nd</sup> day of June, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the George W. Kuhn Drain.



---

Jim Nash, Chairperson

Dated: June 22, 2021

**Jim Nash, Oakland County Water Resources Commissioner  
Dequindre Pump Station Rehabilitation  
George W. Kuhn Drain Drainage District  
Oakland County, Michigan**

Regular Construction Estimate No. 20

March 1, 2021 to May 31, 2021

Department No.: 6010101  
Fund No.: 58520  
Project No.: 1-2190

Account No.: 730373  
Program No.: 149667  
Activity: FAC

Contractor:  
Weiss Construction  
4000 Renaissance Center, Suite 2170  
Detroit, MI 48243

Date of Contract: May 14, 2019  
Completion Date: August 30, 2020  
Extended to: May 31, 2021

Original Contract Amount: \$5,845,000.00

Previous Change Orders: \$150,373.00  
Numbers: Change Order #1, #2 and #3

Change Orders This Estimate: \$112,481.11  
Numbers: Change Order #4

Total Net Change Orders: \$262,854.11

Adjusted Contract Amount: \$6,107,854.11

Sub-Total To Date: \$6,085,774.11

Less Deductions: \$0.00

Gross Estimate: (Work in Place) 99.64% \$6,085,774.11

Less Amount Reserved: (10% of 1/2 Adjusted Contract Amount) \$305,392.71

Total Amount Allowed To Date: \$5,780,381.40

Less Previous Estimates: \$5,656,179.35

Net Payment Request To Be Paid To Contractor: \$124,202.05

Reserve Payment to Contractor \$0.00

Balance of Contract To Date \$ 22,080.00 Accounting Auditor:

Amount To Be Reserved (From Above) \$305,392.71

Less Previous Transfers To Reserve: \$299,768.65

Amount of Current Transfer: \$5,624.06

Prepared by: Craig Tiell - Project Engineer

Date: 7/6/21

Recommended by: John Arvai  
John Arvai, P.E. - Consulting Engineer

Date: 7/6/2021

Approved by: Gary Nigro  
Gary Nigro, P.E. - Chief Engineer, Construction Management

Date: July 6, 2021

Approved by: Sid Lockhart  
Sid Lockhart, P.E. - Special Project Manager, Construction Management

Date: July 7, 2021

Regular Construction Estimate No. 20

Approved By Board On: \_\_\_\_\_

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the GEORGE W. KUHN DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting *Sj Phelps*

**DATE:** July 27, 2021

**SUBJECT:** Request for Board approval of payment of the following invoices:

Payable To	Ref No.	For	Amount
FK Engineering Associates	TBP	Invoice # 20-060-008 - Contracted Services - 04/11/21 - 06/12/21	\$ 3,468.75
		<b>Subtotal Project # 1-2847</b>	<b>\$ 3,468.75</b>
Pipeline Management Co Inc	TBP	Invoice # 2021-040 - Contracted Services - 04/12/21 - 04/23/21	\$ 39,537.49
Pipeline Management Co Inc	TBP	Invoice # 2021-067 - Contracted Services - 05/24/21 - 06/04/21	35,708.32
Pipeline Management Co Inc	TBP	Invoice # 2021-074 - Contracted Services - 06/07/21 - 06/18/21	24,210.33
		<b>Subtotal Project # 1-3261</b>	<b>\$ 99,456.14</b>
Wade Trim	TBP	Invoice # 2021282 - Contracted Services - 05/29/21 - 06/25/21	\$ 847.50
Wade Trim	TBP	Invoice # 2021036 - Contracted Services - 05/01/21 - 05/28/21	1,662.500
Wade Trim	TBP	Invoice # 2020812 - Contracted Services - 03/27/21 - 04/30/21	560.000
		<b>Subtotal Project # 1-2190</b>	<b>\$ 3,070.00</b>
Dickinson Wright, PLLC	TBP	Invoice # 1591439 - Legal Services - 05/31/2021	\$ 749.50
Dickinson Wright, PLLC	TBP	Invoice # 1591444 - Legal Services - 05/31/2021	4,342.33
Dickinson Wright, PLLC	TBP	Invoice # 1591454 - Legal Services - 05/31/2021	406.62
Dickinson Wright, PLLC	TBP	Invoice # 1591455 - Legal Services - 05/31/2021	380.32
Dickinson Wright, PLLC	TBP	Invoice # 1591450 - Legal Services - 05/31/2021	1,175.88
Dickinson Wright, PLLC	TBP	Invoice # 1591452 - Legal Services - 05/31/2021	392.45
Dickinson Wright, PLLC	TBP	Invoice # 1591453 - Legal Services - 05/31/2021	529.46
Dickinson Wright, PLLC	TBP	Invoice # 1591456 - Legal Services - 05/31/2021	381.13
Dickinson Wright, PLLC	TBP	Invoice # 1591457 - Legal Services - 05/31/2021	397.76
Dickinson Wright, PLLC	TBP	Invoice # 1591458 - Legal Services - 05/31/2021	403.94
Dickinson Wright, PLLC	TBP	Invoice # 1591459 - Legal Services - 05/31/2021	338.37
Dickinson Wright, PLLC	TBP	Invoice # 1591484 - Legal Services - 05/31/2021	2,137.50
		<b>Subtotal</b>	<b>\$ 11,635.26</b>
		<b>Total</b>	<b>\$ 117,630.15</b>

**6. Evergreen-Farmington  
Sanitary Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE EVERGREEN-FARMINGTON SANITARY DRAIN**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of June 22, 2021
3. Public Comments
4. Present Memorandum from Philip Kerby, Operations Engineer, dated July 27, 2021, requesting the Board approve the addition of an I-696 crossing at Farmington Road as a project to the capital improvement plan with a budget of \$900,000 and award engineering services to Fishbeck in the amount of \$64,800
5. Present Memorandum from Carrie Cox, Chief Engineer, dated July 27, 2021, requesting the Board approve a resolution authorizing the Chairperson to enter into the Evergreen-Farmington 471 Agreement with the 15 apportioned communities
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn

MINUTES OF MEETING OF THE DRAINAGE BOARD  
FOR THE EVERGREEN-FARMINGTON SANITARY DRAIN

June 22, 2021

A meeting of the Drainage Board for the Evergreen-Farmington Sanitary Drain was held at 2:00 p.m. on the 22<sup>nd</sup> day of June, 2021. Due to the COVID-19 pandemic, the meeting was conducted electronically via GoToMeeting in accordance with PA 254 of 2020, as may be amended from time to time and/or as otherwise provided by law.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from Farmington Hills, Michigan.

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners, participating from Novi, Michigan.

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners.

The Chairperson presented the minutes of the meeting of this Board held on April 27, 2021. Upon motion by Markham, seconded by Nash and unanimously adopted, the minutes were approved as presented.

The Chairperson announced that this was the time and place set to hear any objections to the apportionment of the cost of the Evergreen-Farmington Sanitary Drain as tentatively adopted by this Drainage Board on April 27, 2021 and as set forth in the notice of this hearing. The Chairperson presented affidavits of the publication and mailing of the notice of this hearing.

The Chairperson inquired if any public corporation to be assessed or any taxpayer thereof desired to object to the tentative apportionment of the cost of the Evergreen-Farmington Sanitary Drain as set forth in the resolution of this Board adopted April 27, 2021 and in the notice of this hearing. There were the following objections or questions: None.

The Chairperson declared the hearing closed.

The following resolution was offered by Markham and seconded by Nash:

WHEREAS, the Drainage Board for the Evergreen-Farmington Sanitary Drain, on the 27th day of April, 2021, tentatively established an apportionment of the cost of the Evergreen-Farmington Sanitary Drain, to be borne by the several public corporations, as follows:

City of Auburn Hills	0.46%
Village of Beverly Hills	5.75%
Village of Bingham Farms	0.69%
City of Birmingham	0.11%
Charter Township of Bloomfield	9.54%
City of Bloomfield Hills	1.44%
City of Farmington	0.34%
City of Farmington Hills	28.29%
Village of Franklin	0.21%
City of Keego Harbor	0.32%
City of Lathrup Village	3.06%
City of Orchard Lake Village	0.37%
City of Southfield	38.17%
City of Troy	3.15%
Charter Township of West Bloomfield	8.10%

; and

WHEREAS, after due notice the Drainage Board met on the 22nd day of June, 2021 to hear any objections to the apportionment; and

WHEREAS, the apportionment of the cost of the Evergreen-Farmington Sanitary Drain has been made by taking into consideration the benefits to accrue to each of the public corporations to be assessed and by taking into consideration the extent to which each such public corporation contributes to the conditions which made the Evergreen-Farmington Sanitary Drain necessary;

WHEREAS, this Drainage Board has given due and full consideration to all objections offered thereto; and

WHEREAS, the Evergreen-Farmington Sanitary Drain are necessary for the public health.



NOW, THEREFORE, BE IT RESOLVED BY THE DRAINAGE BOARD FOR THE EVERGREEN-FARMINGTON SANITARY DRAIN:

1. That the apportionment of cost as above set forth be and the same is fixed and confirmed.

2. That the Chairperson of this Drainage Board is authorized and directed to issue on behalf of the Board its Final Order of Apportionment setting forth the apportionment against the several public corporations as herein fixed and confirmed.

3. That all former resolutions and orders of this Board, insofar as the same may be in conflict with the terms of this resolution, are rescinded.

ADOPTED: Yeas – Markham, Nash.

Nays – None.

The Chairperson proceeded to sign the Final Order of Apportionment as directed in the foregoing resolution, and he then presented the order to the Board. The order was dated June 22, 2021.

It was moved by Markham and seconded by Nash that the Final Order of Apportionment In Re Evergreen-Farmington Sanitary Drain, dated June 22, 2021, be approved and filed with the Chairperson.

ADOPTED: Yeas – Markham, Nash.

Nays – None.

It was moved by Nash and seconded by Markham to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas – Markham, Nash.

Nays – None.

There being no further business, the meeting was adjourned.

A handwritten signature in blue ink, appearing to read "Jim Zuo".

---

Chairperson

June 22, 2021

STATE OF MICHIGAN     }  
COUNTY OF OAKLAND    }

I hereby certify that the foregoing is a true and complete copy of the minutes of a meeting of the Drainage Board for the Evergreen-Farmington Sanitary Drain, Oakland County, Michigan, held on June 22, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that notice of the meeting was given in accordance with the Michigan Drain Code and the Open Meetings Act.

A handwritten signature in blue ink, appearing to read "Jim Zao", is written over a horizontal line.

Chairperson of the Drainage Board

Dated:           June 22, 2021

**OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER****MEMORANDUM**

**TO:** Jim Nash, Chairperson  
Evergreen-Farmington Sanitary Drain Drainage District

**FROM:** Philip Kerby, Operations Engineer

**SUBJECT:** EFSD I-696 Crossing at Farmington Rd.

**DATE:** July 27, 2021

As a part of the SAW Grant awarded to EFSDS, the sewer crossing under I-696 just west of Farmington Rd. was inspected by CCTV. Upon review of the inspection video it has been determined that this section sewer needs replacement.

The sewer was installed in the early 1970s by bore and jack within a casing. According to the record drawings the 330' length of 15" sewer is encased by a 194' metal casing located within the right-of-way of I-696. The plastic truss pipe has multiple pipe sags as well as a broken section allowing for significant infiltration. According to the inspection video, the location of the break is just outside of the casing within the right shoulder of east bound I-696 traffic (see photos on next page). The project is needed to prevent soil loss at this location which could lead to a sink hole under I-696 pavement.

The Michigan Department of Transportation (MDOT) intends to rehabilitate the portion of I-696 above the sewer starting in the spring of 2023 as a part of the I-696 from I-275 to Lasher Rd. Rehabilitation Project. WRC proposes replace this sewer prior to the MDOT project starting, to reestablish soil support and alleviate concerns of heavy construction traffic loads worsening the already damaged sewer.

The planned construction of this sewer replacement is to bore and jack a replacement sewer parallel to the existing line, transfer flow to the new sewer, and abandon in place with flowable fill the existing line. The requested \$900,000 budget includes costs for all construction activities: administration, consultant engineering, right-of-way, construction, and inspection. The anticipated schedule is to have easements obtained and construction documents prepared for bidding January of 2022, construction to begin spring of 2022, and final completion before the end of Summer 2022.

At this time, staff recommends that this project be added to the EFSD Long Range Plan as a capital project with a budget of \$900,000 and recommend award of an engineering contract to Fishbeck in the amount of \$64,800 per the proposal.

**RECOMMENDED ACTION:** Approval to add EFSD I-696 Crossing at Farmington Road as a project to the capital improvement plan with a budget of \$900,000 AND award engineering services to Fishbeck in the amount of \$64,800.



<b>Evergreen-Farmington SDS</b>	<b>NEW</b>		<b>\$900,000</b>
SYSTEM	NEW OR EXTENDED USEFUL LIFE IN YEARS	BUDGET REF. (BR) #	ESTIMATED COST

**Phil Kerby**

06/02/2021

SUBMITTED BY

DATE

CHIEF APPROVAL

DATE

MANAGER APPROVAL

DATE

☐ EMERGENCY REPAIR RESERVE ☒ CAPITAL INV. PLAN RESERVE ☐ MAJOR MAINT. RESERVE ☐ CONSTRUCTION PROJ. 149015

OTHER FUNDING SOURCES:	N/A	PROJECT DURATION:	12 months
------------------------	-----	-------------------	-----------

**PROJECT DESCRIPTION AND JUSTIFICATION:** As a part of the SAW Grant CCTV work a section of 15" sanitary sewer located under I-696 was identified in need of replacement. This 15" plastic truss pipe has a significant offset joint with infiltration as well as multiple fractures throughout. This project budget is for all project needs, including consultant engineering, Right-of-way, construction, and inspection.

BUDGET TRANSFER (T) OR EXTRA (E) FUNDING APPROVALS:							
CURRENT AMT (\$)	(T) OR (E)	AMOUNT (\$)	FROM BR #	REVISED AMT (\$)	MANAGER APPROVAL	DATE APPROVED	BUDGET UPDATED

**CHECKLIST:**

DATE

COMPLETED BY

- ☒ Project name (30 char. Limit) EFSDS FAT061 15in 696 Replace
- ☒ Project Activities: ☐ STD ☒ ALL Construction Activity Codes
- ☒ Project # from Fiscal (major capital or emergency projects)
- ☒ Timesheet speedtype requested
- ☒ CVT notified (CIP or Emergency Repair)
- ☐ MI EGLE permit obtained
- ☐ CVT approval
- ☐ Other (Budget Task Force, BOC, Drain Board) Approvals \_\_\_\_\_
- ☐ Any new assets, submit Form DC-300 to WRC Time & Labor Supv
- ☐ New or modified infrastructure, submit Field Change WO to Mapping
- ☐ Existing asset retired by fiscal services (due to replacement)
- ☐ Other: (Describe) \_\_\_\_\_

06/02/2021

Kerby

06/02/2021

Kerby

ACCOUNT CODES					
FUND #	DEPARTMENT #	PROGRAM #	ACCOUNT #	PROJECT ID	SPEEDTYPE
58410	6010101	149123	varies		

ACTIVITY CODE	CAMS WO #	ACTIVITY CODE	CAMS WO #	ACTIVITY CODE	CAMS WO #	ACTIVITY CODE	CAMS WO #

<b>FINAL PROJECT COST:</b>	<b>\$</b>	<b>DATE CLOSED:</b>	
----------------------------	-----------	---------------------	--

**INACTIVATE PROJECT AND SPEEDTYPE.****EMAIL NOTIFICATION TO: JANET BALDICK, SHAWN PHELPS, CHIEF ENGINEER, MANAGER, ROY SMOTHERMAN**

**RESERVE FUNDS – PROCESS OVERVIEW****Capital Improvement Reserves (CIP)**

Always Process DC-537 when using CIP reserves

**Major Maintenance Reserves**

Only use DC-537 if:

1. Project is not identified in budget
2. Project exceeds budgeted amount

**Emergency Repair Reserves**

Only use DC-537 if:

1. The emergency repair project will exceed \$10,000 per repair for community systems or as directed by Chief Engineer
2. The emergency repair project will exceed \$20,000 per repair for interceptor systems or as directed by Chief Engineer

**DC-537 Sequence of Events**

*Project Engineer or Supervisor II (“submitted by”) –*

1. Generate DC-537
2. Email DC-537 to Chief Engineer and Manager
3. When DC-537 is approved by Manager and hyperlink is received;
  - Ensure a CAMS work order is set up for the project
  - Update DC-537 on J: Drive as project progresses
4. Monitor expenditures, any additional funding above original cost must be approved by Manager
5. Upon completion;
  - Update DC-537 with final project cost and date closed
  - Inactivate Speedtype. Send notification by email to: Janet Baldick, Shawn Phelps, Chief Engineer, Manager, Roy Smotherman

*Chief Engineer or Designee –*

1. Approves DC-537 and forwards to Roy
2. Once DC-537 is approved by Manager and hyperlink is received;
  - Request project approval from CVT, Drainage Board, or Budget Task Force, if applicable
  - Update DC-537 and forward Documentation of Approval from CVT to Roy

*Manager –*

1. Approves DC-537, emails to Fiscal Services, with cc: to Roy and Janet
  - Fiscal Services will set up the project and email Memo to Janet, Manager and Roy
  - Janet will then set up new speedtype and email Manager and Roy

*Roy –*

1. Receives approved DC-537 from Chief Engineer
2. Updates Reserve Fund Budget File
3. Reviews DC-537 and LRP with Manager
4. After Manager approval: Saves DC-537 as a “working file” on J: Drive along with all original and future budget correspondence pertaining to the project
5. Updates DC-537 with Project # and Speedtype when applicable
6. Sends email notice to Chief Engineer and Project Engineer/Supervisor II that the DC-537 has been approved and include hyperlink to the working file

## **Water and Sewer Operating Systems Reserve Funds Guideline Summary**

### **Emergency Repair Reserve**

- Unexpected repair due to system failure or catastrophic event.
- In general, minimum threshold is \$10k per repair for community systems and \$20k per repair for interceptor systems.
- Not considered normal operating expense.
- Not part of a planned project or program.
- Examples include major collection system failure, major distribution system failure, major pump equipment repairs and major repairs of WWTP, WTP, well house or RTB facilities or equipment.
- Use of Emergency Repair Reserve funds must be approved by Chief Engineers and Managers, in accordance with the DC-537. Additional funding, above the approved amount (\$1,000 for lateral systems, \$5,000 for interceptors) must be approved via a budget transfer or budget extra via the DC-537.

### **Capital Improvement Plan (CIP) Reserve**

- Replacement of equipment or facilities in kind or with alternate technology.
- Requires development and prioritization of a capital plan for each Fiscal Year.
- In general, minimum threshold is \$10k per project for community systems and \$20k per project for interceptor systems.
- Examples include pipe replacement, lining, replacement of pumping equipment and replacement of WWTP, WTP, well house or RTB facilities or equipment.
- Use of CIP Reserve funds must be approved by Chief Engineers and Managers, in accordance with the DC-537. Additional funding, above the approved amount (\$1,000 for lateral systems, \$5,000 for interceptors) must be approved via a budget transfer or budget extra via the DC-537.

### **Major Maintenance Reserve**

- Used to minimize fluctuations of expenses not accounted for in annual operating budgets.
- Typically for expenses incurred on intervals greater than one year.
- In general, minimum threshold is \$15k per program for community systems and \$30k per program for interceptor systems.
- Examples include collection system cleaning programs, collection system CCTV inspection programs, follow up repairs from CCTV inspection (i.e. grouting and spot repairs), predictive maintenance programs (i.e. vibration analysis and thermal imaging), follow up repairs from predictive maintenance programs, well re-hab, pump and meter testing, tank inspections, gate valve inspection and repair program, hydrant inspection and repair program and cross connection inspection program.
- Use of the Major Maintenance Reserve funds for budgeted CCTV inspection and repair program, collection system cleaning program, gate valve inspection and repair program, hydrant inspection and repair program, and cross connection program does not require use of the approval form, unless the approved amount will be exceeded (\$1,000 for lateral systems, \$5,000 for interceptors) as major maintenance funding for these programs is established during the rate process.





May 21, 2021

Phil Kerby  
Oakland County Water Resources Commissioner  
One Public Works Drive, Building 95 West  
Waterford, MI 48328

**Proposal for Professional Engineering Services  
Sanitary Sewer Replacement Project – Under I-696 at Farmington Road**

Dear Mr. Kerby:

Fishbeck is pleased to submit the following proposal to assist the Oakland County Water Resources Commissioner (WRC) in preparing bidding documents for the replacement of the 15-inch sanitary sewer under the I-696 freeway at Farmington Road.

## Background

The sewer was installed in the early 1970s by bore and jack in a casing. According to record drawings, the total length of the sewer is 330 feet and the casing is 194 feet long. Recent televising of the sewer revealed a separation of the sewer at a joint approximately 237 feet from the northern manhole inside the casing.

The Michigan Department of Transportation (MDOT) intends to rehabilitate the portion of I-696 above the sewer starting in the Spring of 2023 as part of the I-696 from I-275 to Lahser Road Rehabilitation Project.

WRC would like the 15-inch sewer replaced prior to the start of the MDOT project by tunneling a new 15-inch sewer parallel to the existing one and then abandoning the existing sewer.

## Scope of Services

Based on our meeting with WRC staff on May 17, 2021, we have developed the following scope of services for design and bidding only. As requested, assistance during construction is not included in this proposal.

### Task 1 – Design Phase

Immediately upon receiving the notice-to-proceed, we will begin the design phase of the project, including the following:

1. Performing additional topographical survey to supplement survey performed for the MDOT I-696 from I-275 to Lahser Road Rehabilitation Project.
2. Coordinating with the geotechnical firm for location and depth of soil borings.
3. Preparing a sewer tunneling plan and profile sheet and technical specifications.
4. Preparing construction access, staging, and restoration plans.
5. Developing 60% construction documents, then meeting with WRC to review.
6. Incorporating WRC comments into the construction documents.
7. Preparing and submitting permit applications, as necessary, on behalf of WRC.
8. Developing 90% construction documents, then meeting with WRC to review.

9. Incorporating WRC comments into the construction documents.
10. Providing Engineer's Estimate of Probable Construction Costs.
11. Providing final (100%) construction documents.

## **Task 2 – Bidding Phase**

Fishbeck will assist WRC with the following during the bidding stage of the project:

1. Issuing construction documents.
2. Conducting a pre-bid meeting and issuing meeting minutes.
3. Responding to contractor questions during the bidding phase.
4. Preparing necessary addenda.
5. Assisting WRC staff in reviewing the proposals, bid tabulations, and references.
6. Attending pre-award meeting with the potential contractor.

## **Assumptions**

The following assumptions were made in the formation of this proposal:

1. WRC to pay permitting fees and negotiate and acquire all necessary easements (if needed).
2. Attend 3 meetings with WRC staff during the design phase.
3. WRC will contract directly with a geotechnical firm to perform soil borings and provide a geotechnical report.
4. Fishbeck will be able to use the topographical survey information collected for the MDOT I-696 from I-275 to Lahser Road Rehabilitation Project.
5. WRC to provide Fishbeck with average and peak hour flows upstream of the sewer.

The following services are not currently anticipated and are not included in our fee. Work associated with these items can be completed by Fishbeck for an additional fee, upon request.

1. Confined space entry into the manholes.
2. Any improvements to upgrade roads, utilities, or other infrastructure.
3. Contract administration.
4. Construction inspections.

## **Schedule**

We are available to begin the work immediately after receiving written authorization. We anticipate having the documents ready for bidding by January of 2022, for construction starting in late spring of 2022.

## **Professional Services Fees**

Fishbeck proposes to complete the outlined services for a lump sum fee of Sixty-Four Thousand Eight Hundred Dollars (\$64,800). A detailed breakdown of our fee is attached as well as a Preliminary Estimate of Construction Cost.

## **Authorization**

This work will be performed under the terms and conditions of our existing Professional Service Contract No. 004826. If you concur with our scope of services, please issue a Purchase Order and return to my attention at [mesedki@fishbeck.com](mailto:mesedki@fishbeck.com).

If you have any questions or require additional information, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Maria Sedki".

**Maria E. Sedki, PE**

Vice President/Senior Civil Engineer

Attachments

By email

Oakland County Water Resource Commissioner's Office  
Engineering Services for  
**Sanitary Sewer Replacement Project – Under I-696 at Farmington Road**  
Estimated Work Hours and Fees

Description of Work	QA/QC Project Manager	Sr. Engineer	Sr. Cad Technician	2 Person Survey Team	Production Support	Total Hours	Expenditures	Total Costs
	MES	KRO	IB	TBD	NAC			
	\$216.00	\$176.00	\$131.00	\$268.00	\$85.00			
<b>Design Phase</b>								
1 Coordination with MDOT & Property Owners		12	4			16		\$2,636.00
2 Additional Survey		6	20	16		42	\$500.00	\$8,464.00
3 Easement Exhibits and Construction Site Access Plan		10	18			28		\$4,118.00
4 Traffic Control Plans		16	10			26		\$4,126.00
5 Permit Acquisition		10	8			18		\$2,808.00
6 Prepare 30% Documents (plans only)	2	16	24			42		\$6,392.00
7 Prepare 60% Documents (plans and specs)	2	16	24		10	52		\$7,242.00
8 Prepare 90% Documents (plans and specs)	2	20	24		10	56		\$7,946.00
9 Prepare Final Plans & Cost Estimate	2	24	24			50		\$7,800.00
10 Mtgs with WRC (assume 3)	12	12			4	28	\$104.00	\$5,148.00
<b>Bidding Phase</b>								
1 Pre-Bid Meeting	4	8			1	13	\$100.00	\$2,457.00
2 Answer Questions and Prepare Adenda		10	6			16		\$2,546.00
3 Review Proposals	1	6			1	8		\$1,357.00
4 Attend Pre-Award Mtg	4	4			1	9	\$107.00	\$1,760.00
<b>Total</b>	<b>29</b>	<b>170</b>	<b>162</b>	<b>16</b>	<b>27</b>	<b>404</b>	<b>\$811.00</b>	<b>\$64,800.00</b>



**OAKLAND COUNTY  
WATER RESOURCES COMMISSIONER****MEMORANDUM**

**TO:** Jim Nash, Chairperson of the Evergreen-Farmington Sanitary Drain

**FROM:** Carrie Ricker Cox, Chief Engineer

**SUBJECT:** Evergreen-Farmington Sanitary Drain Chapter 20 Section 471 Agreement

**DATE:** July 27, 2021

The Evergreen-Farmington Sanitary Drain is under an Administrative Consent Order, issued by the Michigan Department of the Environment, Great Lakes, and Energy (EGLE). The Evergreen-Farmington Sanitary Drain serves 15 Oakland County municipalities. On behalf of these communities, the Oakland County Water Resources Commissioner Jim Nash (WRC) submitted a Corrective Action Plan to EGLE on April 1, 2020. The Administrative Consent Order requires execution of this plan by November 1, 2022. The plan includes purchasing additional outlet capacity from the Great Lakes Water Authority (GLWA) and the construction of projects along 8 Mile and Evergreen Roads. This allows peak wet weather flow from the apportioned communities to reach the outlet that discharges to GLWA.

In order to facilitate the Corrective Action Plan projects, two communities petitioned the County to form the Evergreen-Farmington Sanitary Drain under Chapter 20 of the Drain Code. As part of the transition to a Chapter 20 drain a new service agreement between the communities and the Evergreen-Farmington Sanitary Drain, often called a 471 Agreement named after section 471 of the Drain Code, is needed. The Evergreen-Farmington Sanitary Drain 471 agreement:

- Provides the system authority for establishing regional operations
- Replaces the 1989 intermunicipal agreement, effectively extending the contract beyond the bond period (the current agreement expires in 2029)
- Requires approval of all communities served by the Evergreen-Farmington Sanitary Drain
- Establishes new community capacities
- Includes apportionment assessments
- Includes the preliminary improvement plan and cost estimates
- Described rate methodology approach (current methodology is not anticipated to change)

WRC has worked on the agreement with the communities over the past several months. The last outreach meeting was held on June 28, 2021. No additional comments were received. Therefore, the provided agreement is amenable to all parties. Approval of the Evergreen-Farmington Sanitary Drain 471 Agreement moves the Evergreen-Farmington Sanitary Drain one step closer to the goal of getting out of the Administrative Consent Order by reducing the frequency and volume of sanitary sewer overflows.

**REQUEST ACTION:** Approve a resolution authorizing Jim Nash, Chairman of the Drain Board, to enter into the Evergreen-Farmington 471 Agreement with the 15 apportioned communities.

**EVERGREEN-FARMINGTON SANITARY DRAIN DRAINAGE DISTRICT**  
**CHAPTER 20 SECTION 471 AGREEMENT**

This Agreement, dated the \_\_\_\_\_ day of \_\_\_\_\_, 2021, by and among the Drainage Board for the Evergreen Farmington Sanitary Drain Drainage District (the “Drainage Board”), the City of Auburn Hills, the Village of Beverly Hills, the Village of Bingham Farms, the City of Birmingham, the Charter Township of Bloomfield, the City of Bloomfield Hills, the City of Farmington, the City of Farmington Hills, the Village of Franklin, the City of Keego Harbor, the City of Lathrup Village, the City of Orchard Lake Village, the City of Southfield, the City of Troy and the Charter Township of West Bloomfield (each, a “Public Corporation” and collectively, the “Public Corporations”). The Drainage Board and the Public Corporations are sometimes referred to each as a “Party” and collectively as the “Parties.”

WHEREAS, by Resolution No. 7674, adopted September 2, 1976, and pursuant to the provisions of Act No. 342 of the Public Acts of Michigan of 1939, as amended (“Act 342”), the County of Oakland (the “County”) established the Evergreen-Farmington Sewage Disposal System (the “EFSDS” or the “System”) and designated and appointed the Oakland County Drain Commissioner, now the Oakland County Water Resources Commissioner, as the “county agency” for the System pursuant to Act 342 (the “County Agency”), with all the powers and duties with respect to the acquisition, construction and financing of facilities for the System as are provided by law especially Act 342; and

WHEREAS, Section 3 of Act 342 authorizes the County Agency to make and execute proposed alterations, changes, and extensions of the improvements, facilities, or services authorized herein; to locate, acquire, purchase, construct, alter, repair, maintain, and operate the improvements, facilities, and services authorized herein and enter into and execute contracts therefor; and

WHEREAS, the County Agency and the Public Corporations serviced by the EFSDS entered into the Evergreen and Farmington Sewage Disposal Systems Intermunicipal Contract Concerning Wastewater Treatment and Pollution Control Projects, dated September 30, 1989 (the “342 Agreement”); and

WHEREAS, certain of the Public Corporations petitioned for the location, establishment and construction of an intra-county drain project consisting of the sewage disposal system previously known as the EFSDS and all improvements necessary or prudent to bring the EFSDS into compliance with Administrative Consent Order 04995 entered by the State of Michigan Department of the Environment, Great Lakes, and Energy on August 14, 2019 (the “ACO”); and

WHEREAS, the Drainage Board named said drain project the Evergreen-Farmington Sanitary Drain (the “Drain”, and the improvements to be undertaken to comply with the ACO also referred to herein as the “Project”) and named the drainage district composed of the Public Corporations the Evergreen-Farmington Sanitary Drain Drainage District (the “Drainage District”) composed of the Public Corporations to be assessed for the Drain, pursuant to Chapter 20 of the Michigan Drain Code, Act No. 40 of the Public Acts of Michigan of 1956, as amended (the “Drain Code”) and issued its Final Order of Determination as executed by the Chairperson of the Drainage Board on November 17, 2020 (the “Final Order of Determination”); and



WHEREAS, as provided in the petitions, the issuance of bonds to finance the Project is contingent upon the Public Corporations and the Drainage District entering into an agreement as provided by law setting forth the services and operations of the Drainage District and to provide for methods of addressing and apportioning future improvements to the Drainage District; and

WHEREAS, Section 471 of the Drain Code authorizes the Drainage Board to contract with any public corporation including any agency thereof, including the Public Corporations and the County Agency; and

WHEREAS, the Drainage Board and the Public Corporations acknowledge that the underlying purpose of this Agreement, entered into pursuant to the authority provided in Section 471 of the Drain Code, is to fully satisfy the terms of the petitions and allow for the issuance of bonds to finance the Project; supersede and replace the Act 342 Agreement; provide for the operations, maintenance, and administration of the Project and the Drainage District by the Drainage Board; acknowledge responsibilities with respect to outstanding debt obligations issued to finance EFSDS improvements; and promote communication by and among the Drainage Board and the Public Corporations; and

WHEREAS, it is understood and agreed that the entire cost of the Project and the entire cost for the operations, maintenance, and administration of the Drainage District is to be assessed against the Public Corporations pursuant to Chapter 20 of the Drain Code.

NOW, THEREFORE, THE PARTIES MUTUALLY AGREE AS FOLLOWS.

### **AGREEMENT**

1. **Evergreen-Farmington Sanitary Drain Drainage District.** The Parties acknowledge the legal establishment of the Drain and the Drainage District pursuant to the Final Order of Determination and in accordance with applicable law including, but not limited to Chapter 20 of the Drain Code. The Parties acknowledge that the Project is to provide improvements necessary or prudent to bring the EFSDS, now the Drainage District, into compliance with the ACO.

2. **Town Outlet Capacity.** The Parties acknowledge that each Public Corporation's respective ability to discharge to the Drain is limited to that provided in the Town Outlet Capacities attached as **Exhibit 1 (Town Outlet Capacities)**. The Town Outlet Capacities provided herein will not be available until after the full completion of the project described in this Agreement. After a Public Corporation reaches its Town Outlet Capacity, that Public Corporation shall have the right to contract for any additional needed capacity outside of the Drain, but it shall retain its obligation to deliver its Town Outlet Capacity to the Drain. The Drainage District agrees that each Public Corporation shall retain the right to deliver wastewater in the amount as set forth for its respective Town Outlet Capacity, to the Drain subject to the terms and conditions of this Agreement, including any extension thereof, so long as each Public Corporation shall continue to pay the amount specified herein for its respective assessment of the cost of the Project, the operation, maintenance and improvement, and administration of the Drainage District, and any additional facilities of the Drainage District as provided herein. No Public Corporation shall have the right unilaterally to terminate or reduce such payments, but if any such Public Corporation

shall breach such obligation, the Drainage District shall be authorized to terminate or reduce such delivery rights or to transfer such delivery rights to other public corporations, whether a party hereto or not. The discharge of wastewater into the Drain from any Public Corporation whether a Party or not, shall not exceed the Town Outlet Capacity of such public corporation. Responsibility and authority will be vested with the Drainage District to oversee and regulate the discharge of wastewater from each Public Corporation and take appropriate actions to protect the rights of the Drainage District to promote each Public Corporations to discharge up to but not in excess of its respective Town Outlet Capacity. The Drainage District acknowledges that exceedances may occur from time to time. If a Public Corporation exceeds their respective Town Outlet Capacity, all Public Corporations tributary to that location will meet with the Drainage District to discuss the reasons for non-compliance. Public Corporations found by the Drainage District to be in exceedance of their respective Town Outlet Capacity can be required by the Drainage District to develop and implement a written corrective action plan acceptable to the Drainage District within 90 days of the Drainage District's finding or as otherwise agreed. A written corrective action plan shall be consistent with the Evergreen-Farmington Sanitary Drain Cohesive Operating Protocol or successor protocol, plan, or document. In the event it becomes necessary or prudent to install meters to monitor the flow of wastewater into the Drain, the costs for installation and operation of such meters shall be borne by all Public Corporations as a general system cost and shall be assessed or otherwise be obligated to be paid in accordance with Chapter 20 of the Drain Code.

3. **EFSDS Transfer And Legal Title.** The Parties acknowledge that the EFSDS is hereby transferred to and established as the Drain in accordance with law and the ACO notice provisions. The Drainage Board shall be responsible for the operations, maintenance, and administration of the Drainage District in accordance with Chapter 20 of the Drain Code.

4. **EFSDS Outstanding Debt Obligations.** The Parties acknowledge that there are outstanding debt obligations issued by the County for improvements to the EFSDS, attached as **Exhibit 2 (Index of Outstanding EFSDS Bonds)**. The Parties hereby covenant and agree that, so long as any such bonds or other debt obligations remain outstanding and unpaid, the provisions of this Agreement shall not impair the security for the bonds or other obligations or the prompt payment of principal or interest thereon. The Public Corporations, the Drainage Board, and the County Agency further covenant and agree that they will comply with their respective duties and obligations under the terms of this Agreement promptly, and will not suffer to be done any act which would in any way impair bonds or other debt obligations, the security therefor, or the prompt payment of interest thereon. The Parties acknowledge that such outstanding debt obligations will continue to be serviced in the manner that they are currently being serviced, and that the County Agency shall continue to pay the County of Oakland the amounts necessary to meet all such bond payments, debt service, and obligations until and unless otherwise agreed between the Drainage District and the County. The Parties further acknowledge that with respect to any debt issued pursuant to Act 342, the Oakland County Water Resources Commissioner will continue in the capacity as County Agency, as designated and appointed by the County for the EFSDS for carrying out the purposes of and exercising the powers and duties vested in any contract entered into by and among the County and any of the Public Corporations pursuant to Act 342 (any such contract referred to herein as an "Act 342 Contract"). Any Party that is party to an Act 342 Contract ratifies and confirms its obligations under any such Act 342 Contract and agrees to continue to carry out its obligations under such Act 342 Contract, including the payment of amounts required to be paid by any Public Corporation to the County Agency for the payment of debt service and any County

Agency administrative expenses, as provided in the Act 342 Contract. To the extent there is any inconsistency between an Act 342 Contract and this Agreement, the terms of the Act 342 Contract will prevail.

5. **Drainage District Operations.** The Drainage District shall operate in accordance with accepted public utility operational procedures. The Drainage District shall not be liable to any Public Corporation, or any individual user therein, for any interruption in service. The Public Corporations agree to comply with their respective administrative consent orders. A list of the Public Corporation's Administrative Consent Orders is provided in **Exhibit 3 (Public Corporation Administrative Consent Orders)**.

6. **Public Corporation Consent To Location of Drainage District.** The Public Corporations, by way of compliance with Section 29, Article VII, Michigan Constitution of 1963, consent and agree to the establishment and location of the Drain and of other extension, improvement or enlargement thereof, within their corporate boundaries and to the use by the Drainage District of their streets, highways, alleys, lands, rights-of-way or other public places for the purpose and facilities of the Drain and any improvement, enlargement or extension thereof. The Public Corporations further agree that in order to evidence and effectuate the foregoing agreement and consent, they will execute and deliver to the Drainage District such grants of easement, right-of-way, permit or consent as may be requested by the Drainage District. Each Public Corporation agrees to transmit to the Drainage District wastewater collected within its respective boundary or otherwise provided by contract up to its Town Outlet Capacity, at reception points designated by the Drainage District, and the Drainage District agrees that the Drainage District shall accept and dispose of such wastewater for treatment.

7. **Public Corporation Wastewater.** Each Public Corporation shall be responsible at its own expense to properly operate and maintain its respective sewer system to collect and deliver wastewater flow to the Drain. The Drainage District shall have no responsibility for the Public Corporations' sewer systems. The Public Corporations shall be responsible for the character of their respective wastewater flows and shall comply with standards, rules, and regulations controlling the transportation and discharge of wastewater to the Drain. Each Public Corporation by the adoption of appropriate ordinances or rules or regulations shall enforce all legal requirements and Drainage District requirements including those relating to industrial pretreatment. Each Public Corporation shall not deliver wastewater to the Drain in violation of applicable standards, rules, and regulations, causes physical damage to the Drain, or contributes to an event of noncompliance to the Drainage District's permit or other regulatory requirements.

8. **Service Area.** The service area of the Drain is depicted in **Exhibit 4 (Service Area Map)** which service area consists of the EFSDS interceptor system as configured as of the date of establishment of the Drain and Drainage District by execution of the Final Order of Determination, and includes areas served pursuant to existing service agreements of certain Public Corporations with other municipalities outside of the Drainage District as listed in **Exhibit 5 (Index of Public Corporation Agreements to Accept Wastewater From Other Municipalities)**. The Parties understand that the Drainage District is currently subject to the contract between the EFSDS (and as anticipated to be transferred and assigned to the Drainage District) and the Detroit Water And Sewerage Department (as has been assigned to the Great Lakes Water Authority). The Parties also understand that the Drainage District is currently negotiating a new contract with the Great Lakes

Water Authority. No Public Corporation that is a party to this contract shall divert flow that is presently tributary to the Drain to another sewage treatment plant or facility or construct or permit the construction of any new sewage treatment plant or facility within the Drainage District without the approval of the Drainage Board.

9. **Assessments of Public Corporations For the Payment Of Project Costs.** The Parties acknowledge and approve the Project and the preliminary plans and cost estimates for the Project attached as **Exhibit 6 (Project Preliminary Plans And Cost Estimates)**. The Project is limited to those improvements described in the petitions of the Charter Township of West Bloomfield dated July 13, 2020 and the City of Southfield dated July 20, 2020 and the Final Order of Determination of the Drainage Board dated November 17, 2020. The Public Corporations acknowledge and agree to pay the Drainage District for all Project costs, including the acquisition, construction, and financing of the Project in accordance with the approved Final Order of Apportionment, executed by the Chairperson of the Drainage Board on June 22, 2021, establishing the assessment percentages as described in **Exhibit 7 (Final Order of Apportionment Assessment Percentages)**. All matters relating to engineering plans and specifications, together with the making and letting of final contracts for acquisition and construction of the Project, the approval of the work and materials therefor, and construction supervision, shall be under the exclusive control of the Drainage Board. The Drainage Board shall maintain appropriate insurance coverage for the Project. The insurance premiums for policies secured by the Drainage Board for the Project shall become a Project cost. In the event the amount of any judgment, arbitration award or settlement, including litigation costs, are payable by the Drainage Board, such amount shall be a Project cost. It is specifically recognized by all Public Corporations that the Drainage Board may issue bonds on behalf of the Drainage District in anticipation of the collection of assessments or other payments required to be made by the Public Corporations under the provisions of Chapter 20 of the Drain Code and as described in this Agreement, and the Public Corporations covenant and agree that they will make all required payments to the Drainage Board promptly and at the times specified herein.

10. **Assessments and Charges to Public Corporations For The Payment Of Drainage District Operations, Maintenance, and Administration Costs.** The Public Corporations shall pay the Drainage Board for the operation, maintenance, and administration of the Drain and related wastewater services at such amounts as the Drainage Board may establish from time to time based on the aggregate quantity of wastewater on a multi-year rolling average method entering the Drain attributable from the Public Corporations or any other method as determined by the Drainage Board, based on the benefits that accrue to each Public Corporation and the extent to which each Public Corporation contributes to the conditions that make the Drainage District necessary. At least annually, representatives of the Drainage Board shall offer to meet with the Public Corporations and discuss the method of assessment of operation, maintenance, and administration of the Drain. The Parties acknowledge that amounts charged by the Drainage Board to each Public Corporation will include all applicable costs and expenses associated with financing, administration, operation and maintenance, sewage disposal charges or other applicable expenses as determined by the Drainage Board, and will include an allocable share of debt service owed on outstanding bonds and other obligations issued by the County for improvements to the EFSDS. In the event that the Drainage District is billed directly by the Great Lakes Water Authority for charges associated with high strength and industrial wastewater flows, such charges may be invoiced directly to the responsible Public Corporation(s) as determined by

the Drainage Board. Each of the Public Corporations reserves the right to establish the manner in which it assesses and charge properties within the Public Corporation benefiting especially from the Drain or otherwise provide for the amounts needed to pay for the Drainage District assessments, in accordance with the Drain Code and other applicable law. Operation, maintenance, and administrative expenses shall include, but not be limited to, such amounts as in the judgment of the Drainage Board to pay for any losses or legal expenses arising from the operation, maintenance and improvement, and administration of the Drain and the repair and replacement of the Drainage District's administrative facilities, equipment, accessories, or appurtenances as may be reasonably necessary or prudent. If the character of wastewater transmitted from any Public Corporation is in violation of applicable standards, rules, and regulations, causes physical damage to the Drain, or contributes to an event of noncompliance to the Drainage District's permit or other regulatory requirements, the Drainage Board may apply an additional assessment to the respective Public Corporation and, if necessary or prudent, the Drainage Board shall have the right for the protection of the Drainage System and the public health or safety, to deny discharge of wastewater to the Drainage District.

11. **Administration, Auditing, Financial Services, and Other Overhead Expenses.**

The Drainage Board is authorized, but not required, to use the Oakland County Water Resources Commissioner, the County of Oakland, or third party personnel, equipment, or services for the operations, maintenance, or administration of the Drain. The Public Corporations agree that the costs of contract, administration, auditing, financial services, and other overhead expenses are part of the Drain costs whether provided by County personnel or third parties. This includes allocable share of reasonable personnel cost, salary, and fringe benefits as determined by the Drainage Board.

12. **Billing.** The assessments and charges as herein provided shall be billed on either a monthly or quarterly basis by the Drainage Board to the Public Corporations. It is understood and agreed, that the payment of charges for services as provided herein for each Public Corporation shall be the general obligation of such Public Corporation, and the Drainage Board shall have the right to utilize any method permitted by law for the collection of such charges due to the Drainage Board under this contract.

13. **Nonassignment.** A Public Corporation shall not assign any claim, right, or privilege it may have under this Agreement or under law from or against the Drainage District to any other Public Corporation, person, or entity whatsoever without the prior written approval of the Drainage Board.

14. **Drainage District Rules And Regulations.** The Drainage Board may establish general rules and regulations for the Drainage District consistent with applicable law, rules, and regulations controlling the quantity and quality of the discharge of the users to the Drain. Nothing herein shall prohibit the Drainage Board from establishing rules and regulations more stringent than those required by applicable law, rules, and regulations, if, in the judgment of the Drainage Board stricter rules and regulations are necessary or prudent to protect the integrity of the Drainage District. Further, each Public Corporation agrees to enforce such rules and regulations as the Drainage Board adopts from time to time.

15. **No Territorial Change of Public Corporation.** No change in the jurisdiction over territory in any Public Corporation shall in any manner impair the obligations of this Agreement, supplement or amendment. In the event all or any part of the territory of a Public Corporation is incorporated as a new city or is annexed to or becomes a part of the territory of another Public Corporation or another public corporation, the Public Corporation or public corporation into which such territory is incorporated or to which such territory is annexed, shall assume the proper proportionate share of the contractual obligations and rights in the Drainage District of the Public Corporation from which territory is taken and such a Public Corporation shall become a Public Corporation in this Agreement, based upon a division determined by the Drainage Board in its sole discretion.

16. **Term.** This Agreement shall remain in full force and effect for an initial term of thirty (30) years from the Effective Date as provided in Section 26, and shall be automatically extended for an addition ten (10) year term beyond the initial term and thereafter automatically extended for ten (10) year intervals unless terminated by the Parties as provided herein; provided that, in no event shall this Agreement be terminated if any bonds, notes or other debt of the Drainage District remain outstanding. It is understood that this Agreement shall automatically and without further action of the Parties, be extended to such date beyond the initial term and any extension thereto to coincide with the date on which all of the principal of and interest on any such bonds, notes or other debt have been fully paid. Expiration or termination of this Agreement shall not impact in any way the Parties rights, duties and obligations and the Drainage Board's rights and obligations to the continued operation, maintenance and improvement, and administration of the Drain under Chapter 20 of the Drain Code.

17. **Termination.** Following the initial term or the full payment of the principal of, and interest on, any and all bonds, notes or other debt of the Drainage District, whichever is later, this Agreement may be terminated by any Party upon a minimum of 365 calendar days written notice to each of the other Parties to this Agreement. The written notice shall state the effective date of the termination.

18. **Governing Law.** This Agreement is made and entered into in the state of Michigan and shall be interpreted, enforced, and governed under the laws of the state of Michigan. The language of this Agreement is intended to be construed as a whole according to its fair meaning and not construed strictly for or against any Party.

19. **Lawsuits or Claims.** The Parties agree that the costs and expenses of any lawsuits, disputes, or claims of any kind arising directly or indirectly out of this Agreement to the extent such costs and expenses are chargeable against the Drainage District shall be deemed to constitute part of the cost of the Drain and shall be paid by the Public Corporations in the same manner as other costs of the Drain.

20. **Third Party Beneficiaries.** There are no intended third party beneficiaries to this Agreement.

21. **Government Function.** This Agreement does not, and is not intended to, impair, divest, delegate, or contravene any constitutional, statutory, or other legal right, privilege power,

obligation, duty, or immunity of the Parties. The obligations in this Agreement are in the exercise or discharge of a governmental function.

22. **Notices.** Notice of a legal nature shall be sent by certified first class mail, return receipt requested or by personal delivery as follows:

Drainage District:

Oakland County Water Resources Commissioner  
One Public Works Drive, Building 95-West  
Waterford, Michigan 48328

Public Corporation:

Authorized representative for such Public Corporation

All Notices shall be considered delivered to a Party on the date of receipt as represented by the return receipt or by proof of personal service. Any Notice given must be signed by an authorized representative.

23. **Entire Agreement, Amendment, Counterparts, and Enforceability.** This Agreement sets forth the entire understanding of the Parties concerning its subject matter and specifically supersedes and replaces the Act 342 Agreement. The terms and conditions are contractual and not mere recital. This Agreement may be amended by a writing executed by all Parties with persons with legal authority to bind the respective Party. This Agreement may be executed in several counterparts, each of which shall be considered an original, but all of which shall constitute one and the same instrument. The recital and whereas provisions of this Agreement are considered an integral part of this Agreement. If any provision of this Agreement is judicially determined to be invalid or unenforceable, the remainder of this Agreement (other than those found to be invalid or unenforceable) is not affected and is enforceable, provided that the invalid or unenforceable provision does not substantially alter the Agreement or make execution impractical.

24. **Public Purpose.** The Drainage Board and the Public Corporations enter this Agreement to serve the public health and welfare of the people of the state of Michigan, especially in the Drainage District.

25. **Successor and Assigns.** This Agreement is binding on, and for the benefit of, the Parties and their respective their successors and assigns, subject to the provisions of this Agreement precluding assignment.

26. **Existing Rights.** Nothing in this Agreement shall impact the existing rights or obligations of any Party.

27. **Effective Date.** This Agreement shall become effective as of the date first written above.

[Signatures on next page]

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed effective as of the date and year first above written.

**EVERGREEN-FARMINGTON      SANITARY  
DRAIN DRAINAGE DISTRICT**

By:\_\_\_\_\_

Its:\_\_\_\_\_

**COUNTY OF OAKLAND**

By:\_\_\_\_\_

Its: County Agency, pursuant to Act No. 342 of the  
Public Acts of Michigan, 1939, as amended

**CITY OF AUBURN HILLS**

By:\_\_\_\_\_

Its:\_\_\_\_\_

And:\_\_\_\_\_

Its:\_\_\_\_\_

**VILLAGE OF BEVERLY HILLS**

By:\_\_\_\_\_

Its:\_\_\_\_\_

And:\_\_\_\_\_

Its:\_\_\_\_\_



**VILLAGE OF BINGHAM FARMS**

By: \_\_\_\_\_

Its: \_\_\_\_\_

And: \_\_\_\_\_

Its: \_\_\_\_\_

**CITY OF BIRMINGHAM**

By: \_\_\_\_\_

Its: \_\_\_\_\_

And: \_\_\_\_\_

Its: \_\_\_\_\_

**TOWNSHIP OF BLOOMFIELD**

By: \_\_\_\_\_

Its: \_\_\_\_\_

And: \_\_\_\_\_

Its: \_\_\_\_\_

**CITY OF BLOOMFIELD HILLS**

By: \_\_\_\_\_

Its: \_\_\_\_\_

And: \_\_\_\_\_

Its: \_\_\_\_\_

**CITY OF FARMINGTON**

By:\_\_\_\_\_

Its:\_\_\_\_\_

And:\_\_\_\_\_

Its:\_\_\_\_\_

**CITY OF FARMINGTON HILLS**

By:\_\_\_\_\_

Its:\_\_\_\_\_

And:\_\_\_\_\_

Its:\_\_\_\_\_

**VILLAGE OF FRANKLIN**

By:\_\_\_\_\_

Its:\_\_\_\_\_

And:\_\_\_\_\_

Its:\_\_\_\_\_

**CITY OF KEEGO HARBOR**

By: \_\_\_\_\_

Its: \_\_\_\_\_

And: \_\_\_\_\_

Its: \_\_\_\_\_

**CITY OF LATHRUP VILLAGE**

By: \_\_\_\_\_

Its: \_\_\_\_\_

And: \_\_\_\_\_

Its: \_\_\_\_\_

**CITY OF ORCHARD LAKE VILLAGE**

By: \_\_\_\_\_

Its: \_\_\_\_\_

And: \_\_\_\_\_

Its: \_\_\_\_\_

**CITY OF SOUTHFIELD**

By: \_\_\_\_\_

Its: \_\_\_\_\_

And: \_\_\_\_\_

Its: \_\_\_\_\_

**CITY OF TROY**

By:\_\_\_\_\_

Its:\_\_\_\_\_

And:\_\_\_\_\_

Its:\_\_\_\_\_

**CHARTER TOWNSHIP OF WEST  
BLOOMFIELD**

By:\_\_\_\_\_

Its:\_\_\_\_\_

And:\_\_\_\_\_

Its:\_\_\_\_\_

## **INDEX OF EXHIBITS**

1. Exhibit 1 (Town Outlet Capacities). Para 2.
2. Exhibit 2 (Index of Outstanding EFSDS Bonds). Para 4.
3. Exhibit 3 (Public Corporation Administrative Consent Orders). Para 5
4. Exhibit 4 (Service Area Map). Para 8.
5. Exhibit 5 (Index of Public Corporation Agreements to Accept Wastewater From Other Municipalities). Para 8.
6. Exhibit 6 (Project Preliminary Plans And Cost Estimates). Para 9.
7. Exhibit 7 (Final Order of Apportionment Assessment Percentages). Para 9.

**EXHIBIT 1**

**TOWN OUTLET CAPACITIES**

**Exhibit 1**  
**Evergreen-Farmington Sanitary Drain**  
**Town Outlet Capacities**

Meter	Most Downstream Public Corporation	Town Outlet Capacity* (cfs)	Tributary Public Corporations																		
			AHC	BFV	BHC	BHV	BIC	BLT	FAC	FHC	FRV	KHC	LVC	OLC	SOC	TRC	WBT	AP	BV	Birm	EFSD
3460	AHC	2.72	✓																		✓
3707	BFV	2.63		✓																	✓
3390	BHC	15.19	✓		✓				✓												✓
3510	BHC	0.29			✓																✓
3240	BHV	54.08	✓	✓	✓	✓	✓							✓		✓	✓	✓	✓	✓	✓
3230	BHV	2.26				✓															✓
3340	BLI	6.67		✓		✓			✓		✓					✓					✓
3320	BLT	26.34	✓		✓		✓		✓							✓				✓	✓
3500	BLT	11.48			✓				✓							✓					✓
3530	BLT	0.17							✓												✓
3450	BLT	0.18							✓												✓
3440	BLT	4.19	✓		✓				✓												✓
3430	BLT	2.30			✓				✓												✓
3420	BLT	1.91							✓												✓
3640	BLT	2.89			✓				✓								✓				✓
3630	BLT	0.91			✓				✓												✓
3610	BLT	0.33			✓				✓												✓
3470	BLT	0.49							✓												✓
4840	BLT	6.88							✓								✓				✓
4810	BLT	8.67							✓								✓				✓
4920	FAC	7.30								✓	✓										✓
4930	FHC	2.23									✓										✓
4940	FHC	4.09									✓										✓
4000	FHC	76.16							✓	✓	✓		✓				✓				✓
3910	FHC	8.07							✓		✓		✓				✓				✓
4050	FHC	32.00							✓		✓		✓								✓
4500	FHC	23.97									✓						✓				✓
3753	FRV	0.51										✓									✓
3763	FRV	0.15										✓									✓
4130	KHC	3.48											✓		✓		✓				✓
3100	LVC	2.66												✓							✓
3130	LVC	6.05												✓							✓
4110	OLC	0.49													✓		✓				✓
4121	OLC	4.93													✓						✓
4125	OLC	0.51													✓						✓
3003	SOC	195.51	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3260	SOC	2.34													✓						✓
3700	SOC	18.26		✓								✓			✓						✓
3800	SOC	9.88							✓		✓		✓	✓			✓				✓
3900	SOC	9.69							✓		✓		✓	✓			✓				✓
3520	TRC	7.86							✓							✓					✓
3540	TRC	1.02							✓												✓
4541	WBT	3.07									✓						✓				✓
4560	WBT	2.08															✓				✓
4580	WBT	2.82															✓				✓
4600	WBT	4.33															✓				✓
4140	WBT	1.55															✓				✓
4100	WBT	13.19										✓		✓			✓				✓
4801	WBT	2.98							✓								✓				✓
4820	WBT	0.74							✓								✓				✓
4850	WBT	2.96															✓				✓
4860	WBT	1.00															✓				✓
4870	WBT	0.82							✓								✓				✓
4804+4806	WBT	12.63							✓		✓						✓				✓

Each Public Corporation's Town Outlet Capacity is limited to the particular flow from the respective meter, irrespective of whether the flow rates listed were derived from flow generated from multiple Public Corporations including tributary portion(s) of each Public Corporation. Corrective action by a Public Corporation may be required by the Drainage District because of flow generated from a tributary Public Corporation contributing to a flow rate that is greater than a Town Outlet Capacity.

\* As measured on a rolling hourly average as defined as the average of uniform time step data across any 60 minute period where each 60 minute average shifts one time step.

**EXHIBIT 2**

**INDEX OF OUTSTANDING EFSDS BONDS**

<b><u>Name of Bonds</u></b>	<b><u>Original Principal Amount</u></b>	<b><u>Issue Date</u></b>	<b><u>Maturity Dates</u></b>
Evergreen-Farmington Sewage Disposal System 8 Mile Road Pumping Station Bonds, Series 2012	\$2,415,000	4/10/2012	10/1/2013-2032
Evergreen and Farmington Sewage Disposal Systems Middlebelt Transport and Storage Tunnel Bonds, Series 2014	\$36,855,000	9/17/2014	10/1/2017-2036
Evergreen and Farmington Sewage Disposal Systems North Evergreen Interceptor Bonds, Series 2015	\$3,700,000	10/13/2015	10/1/2016-2027, 2029, 2031, 2033, 2035
Evergreen and Farmington Sewage Disposal Systems North Evergreen Interceptor Bonds, Series 2017	\$4,805,000	5/31/2017	3/1/2018-2037
Evergreen and Farmington Sewage Disposal Systems Middlebelt Transport and Storage Tunnel Bonds. Series 2017	\$995,000	9/28/2017	Mandatory redemption 9/1/2018-2027
Evergreen-Farmington Sewage Disposal System Refunding Bonds. Series 2018	\$3,065,000	2/28/2018	4/1/2019-2031



<b><u>Name of Bonds</u></b>	<b><u>Original Principal Amount</u></b>	<b><u>Issue Date</u></b>	<b><u>Maturity Dates</u></b>
Evergreen and Farmington Sewage Disposal System Capital Improvement Bonds. Series 2018A	\$8,300,000	9/20/2018	4/1/2019-2033
Evergreen and Farmington Sewage Disposal System Capital Improvement Bonds. Series 2020A	\$3,910,000	3/26/2020	7/1/21-2029

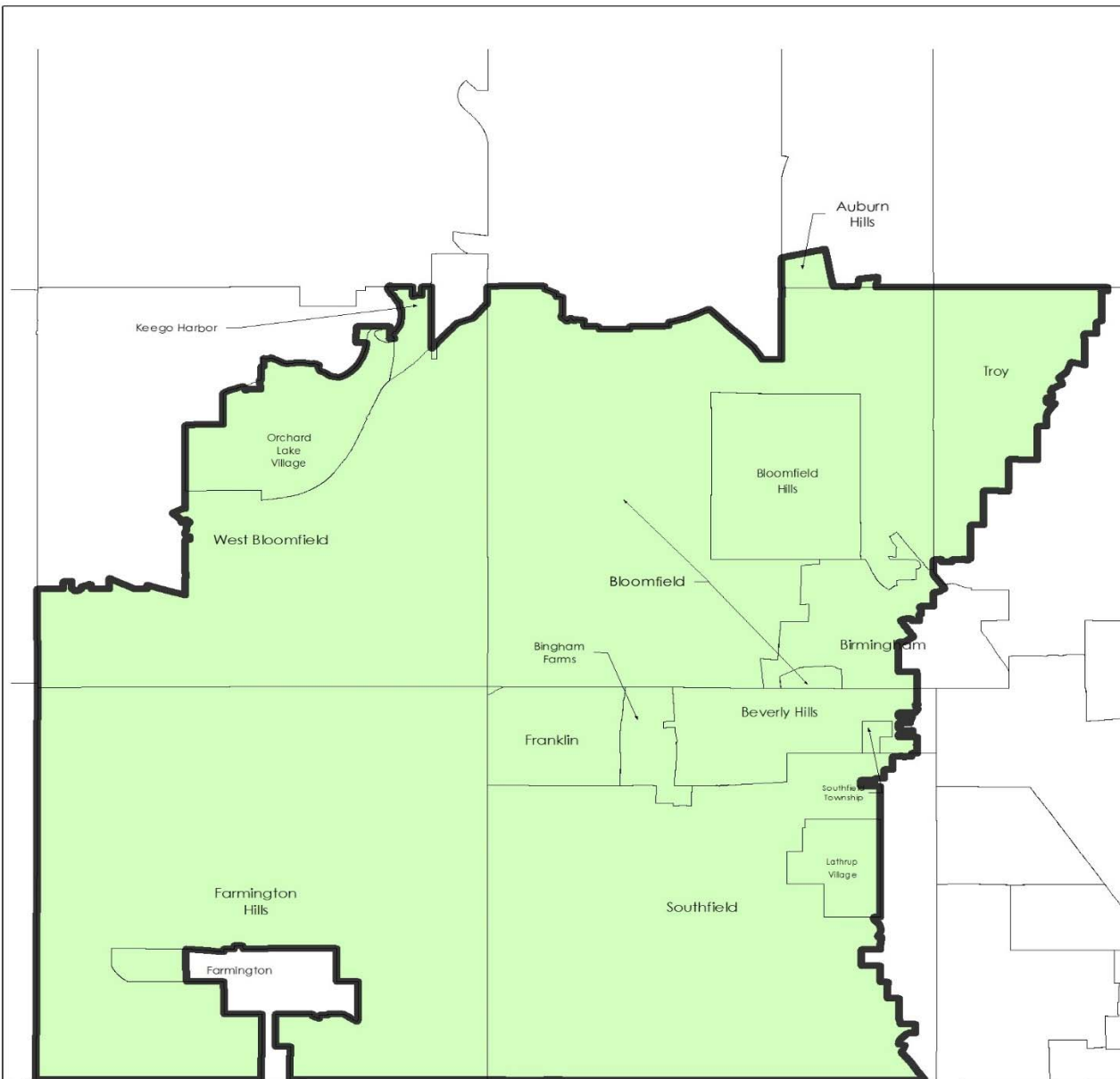
**EXHIBIT 3**

**PUBLIC CORPORATION ADMINISTRATIVE CONSENT ORDERS**

Community	ACO #
Beverly Hills	AFO-SW-09-002
Bloomfield Hills	AFO-SW-09-004
Bloomfield Township	AFO-SW-09-003
Farmington	ACO-SW-05-005
Farmington Hills	ACO-SW-05-006
Lathrup Village	AFO-SW-09-007
Troy	AFO-SW-09-006
West Bloomfield Township	AFO-SW-09-005

**EXHIBIT 4**

**SERVICE AREA MAP**



## EXHIBIT B EVERGREEN-FARMINGTON AREA TO BE SERVED

### Legend

- Municipal District
- Evergreen Farmington Sanitary Drain

Disclaimer: The information provided in this system has been compiled from recorded deeds, plats, tax maps, surveys and other public records and data. It is not a legally recorded map or survey and is not intended to be used as one. Users of this data are hereby notified that the information sources mentioned above should be consulted for verification of the information.

N  
↑  
Not To Scale

**WRC**  
WATER RESOURCES COMMISSIONER  
*Jim Nash*

Revision: June, 2022  
Client: Michigan Department of Transportation (MDOT) - Division of Transportation Planning & Research

**EXHIBIT 5**

**INDEX OF PUBLIC CORPORATION AGREEMENTS TO ACCEPT  
WASTEWATER FROM OTHER MUNICIPALITIES**

1. That certain Letter Agreement between the Township of West Bloomfield and the City of Sylvan Lake dated circa December 24, 1963 and countersigned on January 8, 1964 respecting the Sylvan Manor Arm.

## **EXHIBIT 6**

### **PROJECT PRELIMINARY PLANS AND COST ESTIMATES**

#### Overall Project Preliminary Plans and Cost Estimates

Total Estimated Project Cost: \$72,700,000

The Total Estimated Project Cost is \$72,700,000.00. This includes the 4 component projects described below including the following: (1) Great lakes Water Authority (“GLWA”) Capacity Purchase Project; (2) 8 Mile Road Outlet Conveyance Project; (3) Evergreen Road Conveyance, Walnut Lake Pump Station #1 Project; and (4) Lathrup Village Sanitary Retention Tank Improvements. The preliminary plans including the basis of design and other projects documents are on file with the Water Resources Commissioner’s office and have been the subject of monthly meetings of the Corrective Action Plan Steering Committee of the EFSD since 2019 and presented and discussed at the public meetings of the EFSD.

Project Name: GLWA Capacity Purchase

Owner: Evergreen-Farmington Sanitary Drain

Location: Various

Engineer of Record: Applied Science, Inc.,

Estimated Purchase Capacity: \$33,000,000

Total Estimated Project Cost: \$34,130,000

Tentative Purchase Date: December 2021-January 2022

The existing contractual outlet capacity pursuant to the August 29, 1984 Detroit-Oakland Agreement for the Use of Certain Detroit Sewers for the Evergreen – Farmington District is a maximum rate of discharge of 170 cubic feet per second (cfs). The contractual agreement includes provision for increasing the maximum rate of discharge as may be agreed to by the parties. A proposed increase in the EFSD maximum rate of discharge of 57 cfs, for a revised total contractual capacity of 227 cfs is tentatively agreed to among parties. In order to accept this additional flow, GLWA must remove offsetting flow from the system. Two projects are requested for GLWA to meet these EGLE requirements, the DWSD West Warren Sewer Separation Project and the GLWA West Warren Outfall project. The purchase capacity cost is guided by but not tied directly to the anticipated project costs from these two projects. The engineer for the GLWA Purchase Capacity is Applied Science, Inc. The anticipated negotiated purchase capacity is \$33,000,000. The cost for the corrective action plan and coordination with EGLE, GLWA and DWSD is anticipated to be \$1,250,000. Evergreen-Farmington Sanitary Drain anticipates purchasing the capacity in the last part of 2021 or early 2022.

Project Name: 8 Mile Road Outlet Conveyance

Owner: Evergreen Farmington Sanitary Drain

Location: 8 Mile Pump Station and along 8 Mile Road in Southfield, Michigan

Engineer of Record: Fishbeck

Engineer’s Estimate of Construction Cost: \$18,610,000

Total Estimated Project Cost: \$32,060,000

Tentative Bid Date: Spring of 2022

The project to allow more flow to be conveyed involves modifications to the 8 Mile Pump Station and existing discharge piping by slip lining approximately 3,800 feet of the downstream 60-inch I.D. South Evergreen Interceptor to a 54-inch diameter sewer. In addition, modifications will be made to the pump station pumping capacity to help control the water levels upstream of the 8 Mile Pump Station. A new tributary collector sewer will be constructed to capture and convey flows from areas disconnected from the newly lined section of the South Evergreen Interceptor. In addition, the 8 Mile Drain at the Evergreen Emergency SSO Chamber will be modified.

Project Name: Lathrup Village Sanitary Retention Tank Improvements

Owner: Lathrup Village

Location: 19600 Sunnybrook Avenue, Lathrup Village, Michigan

Engineer of Record: Hubbell, Roth & Clark, Inc.

Engineer's Estimate of Construction Cost: \$520,000

Total Estimated Project Cost: \$1,030,000

Tentative Bid Date: Spring of 2022

The project involves improvements and modifications to the Lathrup Sanitary Retention Basin. The major work items include electrical and mechanical improvements to the SRT heating, influent pumping and dewatering systems; structural restoration to the roof and walls; upgraded instrumentation and controls; SCADA improvements; piping and valve system changes; and revised operational controls. The improvements will allow Lathrup Village to discharge its town outlet capacity during wet weather when the Evergreen Interceptor levels are elevated. A cost sharing agreement for the design and construction will be utilized on this project between Lathrup Village and the Evergreen Farmington Sanitary Drain.

Project Name: Evergreen Road Conveyance Project – Walnut Lake Pump Station #1 Corrective Action Plan

Owner: Evergreen-Farmington Sanitary Drain

Location: Evergreen Road 8 Mile to 14 Mile

Engineer of Record: Applied Science, Inc.

Engineer's Estimate of Construction Cost: \$2,900,000

Total Estimated Project Cost: \$5,480,000

Tentative Bid Date: January-February 2022

The project will increase Evergreen Interceptor operating levels and coordinated operations of facilities in the EFSDS and customer communities to avoid SSOs through certain modifications to Walnut Lake Pump Station #1 for continued operations during wet weather. This may include grade separation stations, sealed manholes, and other system improvements.

Below is a chart of the estimated cost for the respective Public Corporation.

Public Corporation	Peak Share			Total Estimated Cost
Auburn Hills	0.460%			334,420
Bingham Farms	0.690%			501,630
Bloomfield Hills	1.440%			1,046,880
Beverly Hills	5.750%			4,180,250
Birmingham	0.110%			79,970
Bloomfield Twp	9.540%			6,935,580
Farmington	0.340%			247,180
Farmington Hills	28.290%			20,566,830
Franklin	0.210%			152,670
Keego Harbor	0.320%			232,640
Lathrup Village	3.060%			2,224,620
Orchard Lake Village	0.370%			268,990
Southfield	38.170%			27,749,590
Troy	3.150%			2,290,050
West Bloomfield Twp	8.100%			5,888,700
<b>Total</b>	<b>100.000%</b>			<b>72,700,000</b>





**EXHIBIT 7**

**FINAL ORDER OF APPORTIONMENT ASSESSMENT PERCENTAGES**

City of Auburn Hills	0.46%
Village of Beverly Hills	5.75%
Village of Bingham Farms	0.69%
City of Birmingham	0.11%
Charter Township of Bloomfield	9.54%
City of Bloomfield Hills	1.44%
City of Farmington	0.34%
City of Farmington Hills	28.29%
Village of Franklin	0.21%
City of Keego Harbor	0.32%
City of Lathrup Village	3.06%
City of Orchard Lake Village	0.37%
City of Southfield	38.17%
City of Troy	3.15%
Charter Township of West Bloomfield	<u>8.10%</u>
	100%

## **7. Earlmoor Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE EARLMOOR DRAIN**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of November 28, 2017
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$11,222
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE EARLMOOR DRAIN**

November 28, 2017

A meeting of the Drainage Board for the Earlmoor Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28th day of November, 2017.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Thomas F. Middleton, Chairperson of the Finance Committee,  
Oakland County Board of Commissioners

ABSENT: Michael Gingell, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held April 20, 2010, were presented for consideration. It was moved by Middleton, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.


A Maintenance Assessment Recommendation and Special Assessment Roll for the Earlmoor Drain in the amount of \$8,876 (as attached) were presented. It was moved by Middleton, supported by Nash, to approve the Maintenance Assessment Recommendation and Special Assessment Roll as presented.

ADOPTED: Yeas - 2  
Nays - 0

It was moved by Nash, supported by Middleton, to certify attendance and authorize pro rata payment of \$25 per day to Mr. Middleton.

ADOPTED: Yeas - 2  
Nays - 0

There being no further business, the meeting was adjourned.



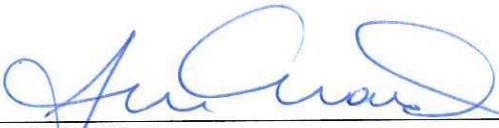
---

Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Earlmoor Drain, Oakland County, Michigan, held on the 28th day of November, 2017, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Earlmoor Drain Drainage District.

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: December 12, 2017



**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Earlmoor Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2021 through 2023

Date last assessment approved:	11/28/17	
Last Assessment:		\$8,876
Current Available Cash:		(\$2,422)

<b>Expenditure History:</b>	<b>Fiscal Year</b>	<b>Amount</b>
	2014	\$2,467
	2015	\$1,006
	2016	\$782
	2017	\$1,859
	2018	\$1,840
	2019	\$1,920
	2020	\$3,121

<b>Estimated Expenditures:</b>	<b>Year</b>	<b>Amount</b>
	2021	\$2,400
	2022	\$2,400
	2023	\$2,400
	<b>Total</b>	<b>\$7,200</b>

**Recommended Assessment:**

Current Cash Deficit	\$2,422
Total Anticipated Expenses 2021 - 2023	\$7,200
Proposed Special Maintenance Expenses	\$1,600

<b>TOTAL RECOMMENDED ASSESSMENT</b>	<b>\$11,222</b>
-------------------------------------	-----------------

Prepared by: Michael R. McMahon Date: July 27 2021  
Michael R. McMahon, P.E. - Chief Engineer

Approved by: Steven Korth Date: July 27, 2021  
Steven A. Korth, P.E. - Manager

Note: Current Available Cash as of May 31, 2021, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE EARLMOOR DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Pontiac	100.000%	\$ 11,222.00	\$ 11,222.00	-	-
Total	<b>100.000%</b>	<b>\$ 11,222.00</b>	<b>\$ 11,222.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 3/24/1971.

Assessment Payment Due Date(s): Payment #1 08/31/2021

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Earlmoor Drain for the fiscal years 2021- 2023 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Earlmoor Drain

The foregoing Special Assessment Roll for the maintenance of the Earlmoor Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Earlmoor Drain



**Chapter 20 Drainage Board Meeting**  
**Regular Meeting – Tuesday July 27, 2021**

---

**8. Guyer Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE GUYER DRAIN**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of November 28, 2017
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$7,988
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE GUYER DRAIN**

November 28, 2017

A meeting of the Drainage Board for the Guyer Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 28th day of November, 2017.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Thomas F. Middleton, Chairperson of the Finance Committee,  
Oakland County Board of Commissioners

ABSENT: Michael Gingell, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held October 22, 2002, were presented for consideration. It was moved by Middleton, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll for the Guyer Drain in the amount of \$5,959 (as attached) were presented. It was moved by Middleton, supported by Nash, to approve the Maintenance Assessment Recommendation and Special Assessment Roll as presented.

ADOPTED: Yeas - 2  
Nays - 0

It was moved by Nash, supported by Middleton, to certify attendance and authorize pro rata payment of \$25 per day to Mr. Middleton.

ADOPTED: Yeas - 2  
Nays - 0

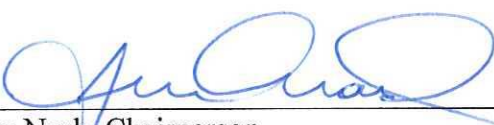
There being no further business, the meeting was adjourned.

  
\_\_\_\_\_  
Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Guyer Drain, Oakland County, Michigan, held on the 28th day of November, 2017, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Guyer Drain Drainage District.

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: December 12, 2017

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Guyer Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2021 through 2023

Date last assessment approved:	11/28/17	
Last Assessment:		\$5,959
Current Available Cash:		(\$1,288)

<b>Expenditure History:</b>	<b>Fiscal Year</b>	<b>Amount</b>
	2014	\$705
	2015	\$1,076
	2016	\$893
	2017	\$1,068
	2018	\$1,087
	2019	\$1,389
	2020	\$1,862

<b>Estimated Expenditures:</b>	<b>Year</b>	<b>Amount</b>
	2021	\$1,500
	2022	\$1,500
	2023	\$1,500
	<b>Total</b>	<b>\$4,500</b>

**Recommended Assessment:**

Current Cash Deficit	\$1,288
Total Anticipated Expenses 2021 - 2023	\$4,500
Proposed Special Maintenance Expenses	\$2,200
<b>TOTAL RECOMMENDED ASSESSMENT</b>	<b>\$7,988</b>

Prepared by: Michael R. McMahon Date: July 27, 2021  
Michael R. McMahon, P.E. - Chief Engineer

Approved by: Steven Korth Date: July 27, 2021  
Steven A. Korth, P.E. - Manager

Note: Current Available Cash as of May 31, 2021, Fiscal Services Division Report.

# SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE GUYER DRAIN

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment	Payment #1	Payment #2	Payment #3
City of Pontiac	97.68479%	\$ 7,803.06	\$ 7,803.06	-	-
State of Michigan	2.31521%	\$ 184.94	\$ 184.94	-	-
<hr/>					
Total	<b>100.00000%</b>	<b>\$ 7,988.00</b>	<b>\$ 7,988.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 7/1/1968.

Assessment Payment Due Date(s): Payment #1 08/31/2021

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Guyer Drain for the fiscal years 2021- 2023 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Guyer Drain

The foregoing Special Assessment Roll for the maintenance of the Guyer Drain was approved by the Drainage Board on \_\_\_\_\_ .

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Guyer Drain

## **9. Joachim Relief Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE JOACHIM DRAIN**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of April 23, 2019
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$41,508
5. Present request for reimbursement of the Drain Revolving Fund in the amount of \$1,769.23
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn



**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE JOACHIM DRAIN**

April 23, 2019

A meeting of the Drainage Board for the Joachim Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 23<sup>rd</sup> day of April 2019.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Helaine Zack, Chairperson of the Finance Committee,  
Oakland County Board of Commissioners

ABSENT: None

Minutes of the meeting held October 23, 2018 were presented for consideration. It was moved by Zack, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.


A Memorandum from Geoff Wilson P.E., Drain Maintenance Engineer, dated April 23, 2019 (as attached) was presented requesting the Board to authorize HRC to perform a drain pipe inspection for an amount not to exceed \$9,900. It was moved by Zack, supported by Woodward to authorize HRC to perform a drain pipe inspection for an amount not to exceed \$9,900.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Zack, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Zack and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

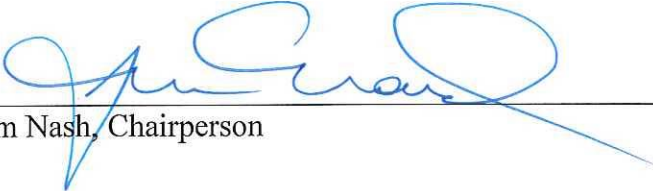
There being no further business, the meeting was adjourned.

  
\_\_\_\_\_  
Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Joachim Drain, Oakland County, Michigan, held on the 23<sup>rd</sup> day of April 2019, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board of the Joachim Drain Drainage District.

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: May 2, 2019

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Joachim Relief Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2021 through 2023

Date last assessment approved:	10/23/18	
Last Assessment:		\$17,046
Current Available Cash:		(\$11,208)

<b>Expenditure History:</b>	<b>Fiscal Year</b>	<b>Amount</b>
	2014	\$3,310
	2015	\$4,163
	2016	\$1,328
	2017	\$1,128
	2018	\$5,712
	2019	\$18,579
	2020	\$4,251

<b>Estimated Expenditures:</b>	<b>Year</b>	<b>Amount</b>
	2021	\$5,500
	2022	\$5,500
	2023	\$5,500
	<b>Total</b>	<b>\$16,500</b>

**Recommended Assessment:**

Current Cash Deficit	\$11,208
Total Anticipated Expenses 2021 - 2023	\$16,500
Proposed Special Maintenance Expenses	\$13,800

<b>TOTAL RECOMMENDED ASSESSMENT</b>	<b>\$41,508</b>
-------------------------------------	-----------------

Prepared by: Michael R. McMahon Date: July 27 2021  
Michael R. McMahon, P.E. - Chief Engineer

Approved by: Steven Korth Date: July 27, 2021  
Steven A. Korth, P.E. - Manager

Note: Current Available Cash as of May 31, 2021, Fiscal Services Division Report.

# SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE JOACHIM RELIEF DRAIN

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment	Payment #1	Payment #2	Payment #3
City of Pontiac	97.7180%	\$ 40,560.79	\$ 40,560.79	-	-
State of Michigan	2.2820%	\$ 947.21	\$ 947.21	-	-
<hr/>					
Total	<b>100.0000%</b>	<b>\$ 41,508.00</b>	<b>\$ 41,508.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 10/6/1972.

Assessment Payment Due Date(s): Payment #1 08/31/2021

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Joachim Relief Drain for the fiscal years 2021- 2023 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Joachim Relief Drain

The foregoing Special Assessment Roll for the maintenance of the Joachim Relief Drain was approved by the Drainage Board on \_\_\_\_\_ .

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Joachim Relief Drain

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the JOACHIM DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting



**DATE:** July 27, 2021

**SUBJECT:** Request for Reimbursement of Drain Revolving Fund

The following is a detail of charges paid from the Drain Revolving Fund  
for the period ending July 20, 2020.

Date	Ref No.	Paid To	For	Amount
2/18/2021	JE # 352105	Meadowbrook Insurance	Invoice # 129571 - FY-2021 Insurance Allocation	\$ 156.06
6/24/2020	JE # 337125	Meadowbrook Insurance	Invoice # 3767 - FY-2020 Insurance Allocation	141.92
4/22/2019	V # 1347825	East Jordan USA, Inc	Invoice # 110190020692 - Material and Supplies	1,310.57
4/30/2019	JE # 310380	Meadowbrook Insurance	Invoice # 999926 - FY-2019 Insurance Allocation	160.68
Total				<u>\$ 1,769.23</u>

## **10. Joseph Jones Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE JOSEPH JONES DRAIN**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of June 25, 2019
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$16,600
5. Present request for reimbursement of the Drain Revolving Fund in the amount of \$384.82
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE JOSEPH JONES DRAIN**

June 25, 2019

A meeting of the Drainage Board for the Joseph Jones Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 25<sup>th</sup> day of June 2019.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Chairperson and Oakland County Water Resources Commissioner  
  
David Woodward, Chairperson of the Oakland County Board of Commissioners  
  
Gwen Markham, Vice Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None

Minutes of the meeting held February 27, 2018 were presented for consideration.  
It was moved by Woodward, supported by Markham, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

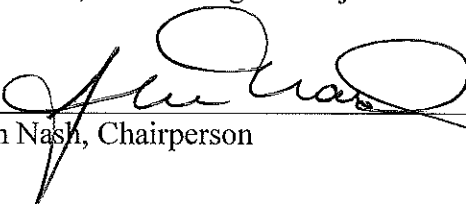
A request for reimbursement of the Drain Revolving Fund in the amount of \$391.18 (as attached) was presented. It was moved by Markham, supported by Woodward, that the Drain Revolving Fund be reimbursed in the amount of \$391.18.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham and Mr. Woodward.

ADOPTED: Yeas - 3  
Nays - 0

There being no further business, the meeting was adjourned.

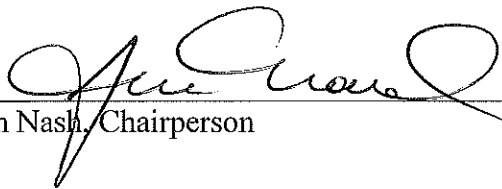
  
\_\_\_\_\_  
Jim Nash, Chairperson



STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Joseph Jones Drain, Oakland County, Michigan, held on the 25<sup>th</sup> day of June 2019, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board of the Joseph Jones Drain Drainage District.

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: 7/3, 2019

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Joseph Jones Drain**

Assessment for estimated maintenance expenses for fiscal years: 2021 through 2023

Date last assessment approved:	11/28/17	
Last Assessment:		\$22,339
Current Available Cash:		\$2,821

<b>Expenditure History:</b>	<b>Fiscal Year</b>	<b>Amount</b>
	2014	\$4,782
	2015	\$6,016
	2016	\$3,352
	2017	\$6,525
	2018	\$4,254
	2019	\$4,847
	2020	\$4,193

<b>Estimated Expenditures:</b>	<b>Year</b>	<b>Amount</b>
	2021	\$5,400
	2022	\$5,400
	2023	\$5,400
	<b>Total</b>	<b>\$16,200</b>

**Recommended Assessment:**

Current Cash Deficit	\$0
Total Anticipated Expenses 2021 - 2023	\$16,200
Proposed Special Maintenance Expenses	\$400

<b>TOTAL RECOMMENDED ASSESSMENT</b>	<b>\$16,600</b>
-------------------------------------	-----------------

Prepared by: Michael R. McMahon Date: July 27 2021  
Michael R. McMahon, P.E. - Chief Engineer

Approved by: Steven Korth Date: July 27, 2021  
Steven A. Korth, P.E. - Manager

Note: Current Available Cash as of May 31, 2021, Fiscal Services Division Report.

# SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE JOSEPH JONES DRAIN

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment	Payment #1	Payment #2	Payment #3
City of Pontiac	100.000%	\$ 16,600.00	\$ 16,600.00	-	-
Total	<b>100.000%</b>	<b>\$ 16,600.00</b>	<b>\$ 16,600.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 10/12/1993.

Assessment Payment Due Date(s): Payment #1 08/31/2021

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Joseph Jones Drain for the fiscal years 2021- 2023 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Joseph Jones Drain

The foregoing Special Assessment Roll for the maintenance of the Joseph Jones Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Joseph Jones Drain

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the JOSEPH JONES DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting



**DATE:** July 27, 2021

**SUBJECT:** Request for Reimbursement of Drain Revolving Fund

The following is a detail of charges paid from the Drain Revolving Fund  
for the period ending July 20, 2021.

Date	Ref No.	Paid To	For	Amount
2/18/2021	JE # 352105	Meadowbrook Insurance	Invoice # 129571 - FY-2021 Insurance Allocation	\$ 384.82
				<u>\$ 384.82</u>

**11. Pontiac-Clinton River**  
**Drain No. 2**

## **AGENDA**

### **DRAINAGE BOARD FOR THE PONTIAC-CLINTON RIVER DRAIN NO. 2**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of October 23, 2018
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$13,328
5. Other business
6. Approve pro rata payment to Drainage Board Members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE PONTIAC-CLINTON RIVER DRAIN NO. 2**

October 23, 2018

A meeting of the Drainage Board for the Pontiac-Clinton River Drain No. 2 was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 23<sup>rd</sup> day of October, 2018.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Thomas F. Middleton, Chairperson of the Finance Committee,  
Oakland County Board of Commissioners

ABSENT: Michael Gingell, Chairperson of the Oakland County Board of Commissioners

Minutes of the meeting held April 17, 2012 were presented for consideration. It was moved by Middleton, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll for the Pontiac-Clinton River Drain No. 2 in the amount of \$62,237 (as attached) were presented. It was moved by Middleton, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$62,237 as presented.

ADOPTED: Yeas - 2  
Nays - 0

A request for reimbursement of the Drain Revolving Fund in the amount of \$204.30 (as attached) was presented. It was moved by Middleton, supported by Nash, that the Drain Revolving Fund be reimbursed in the amount of \$204.30.

ADOPTED: Yeas - 2  
Nays - 0

A request for reimbursement of the General Fund in the amount of \$5.94 (as attached) was presented. It was moved by Middleton, supported by Nash, that the General Fund be reimbursed in the amount of \$5.94.

ADOPTED: Yeas - 2  
Nays - 0

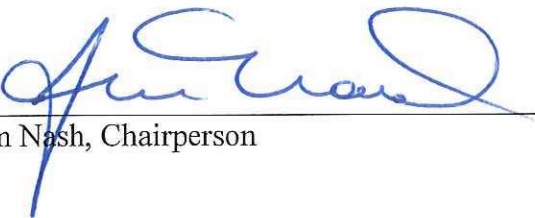
A request for reimbursement of the Drain Equipment Fund in the amount of \$0.92 (as attached) was presented. It was moved by Middleton, supported by Nash, that the Drain Equipment Fund be reimbursed in the amount of \$0.92.

ADOPTED: Yeas - 2  
Nays - 0

It was moved by Nash, supported by Middleton, to certify attendance and authorize pro rata payment of \$25 per day to Mr. Middleton.

ADOPTED: Yeas - 2  
Nays - 0

There being no further business, the meeting was adjourned.



---

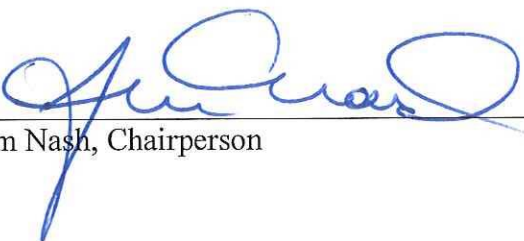
Jim Nash, Chairperson



STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Pontiac-Clinton River Drain No. 2, Oakland County, Michigan, held on the 23<sup>rd</sup> day of October, 2018, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Pontiac-Clinton River Drain No. 2 Drainage District.

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: October 31, 2018

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Pontiac-Clinton River No. 2 Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2021 through 2023

Date last assessment approved:	10/23/18	
Last Assessment:		\$62,237
Current Available Cash:		(\$1,928)

<b>Expenditure History:</b>	<b>Fiscal Year</b>	<b>Amount</b>
	2014	\$705
	2015	\$3,261
	2016	\$4,358
	2017	\$992
	2018	\$2,099
	2019	\$3,779
	2020	\$4,296

<b>Estimated Expenditures:</b>	<b>Year</b>	<b>Amount</b>
	2021	\$3,800
	2022	\$3,800
	2023	\$3,800
	<b>Total</b>	<b>\$11,400</b>

**Recommended Assessment:**

Current Cash Deficit	\$1,928
Total Anticipated Expenses 2021 - 2023	\$11,400

<b>TOTAL RECOMMENDED ASSESSMENT</b>	<b>\$13,328</b>
-------------------------------------	-----------------

Prepared by: Michael R. McMahon Date: July 27, 2021  
Michael R. McMahon, P.E. - Chief Engineer

Approved by: Steven Korth Date: July 27, 2021  
Steven A. Korth, P.E. - Manager

Note: Current Available Cash as of May 31, 2021, Fiscal Services Division Report.

# SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE PONTIAC-CLINTON RIVER NO. 2 DRAIN

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment	Payment #1	Payment #2	Payment #3
City of Pontiac	97.68733%	\$ 13,019.77	\$ 13,019.77	-	-
County of Oakland	0.01384%	\$ 1.84	\$ 1.84	-	-
State of Michigan	2.29883%	\$ 306.39	\$ 306.39	-	-
<hr/>					
Total	<b>100.0000%</b>	<b>\$ 13,328.00</b>	<b>\$ 13,328.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 10/15/1965.

Assessment Payment Due Date(s): Payment #1 08/31/2021

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Pontiac-Clinton River No. 2 Drain for the fiscal years 2021- 2023 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Pontiac-Clinton River No. 2 Drain

The foregoing Special Assessment Roll for the maintenance of the Pontiac-Clinton River No. 2 Drain was approved by the Drainage Board on \_\_\_\_\_ .

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Pontiac-Clinton River No. 2 Drain

## **12. Richton Relief Drains**

## **AGENDA**

### **DRAINAGE BOARD FOR THE RICHTON RELIEF DRAINS**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of December 17, 2019
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$26,616
5. Present request for reimbursement of the Drain Revolving Fund in the amount of \$842.25
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE RICHTON RELIEF DRAINS**

December 17, 2019

A meeting of the Drainage Board for the Richton Relief Drains was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 2:00 p.m. on the 17<sup>th</sup> day of December, 2019.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

David Woodward, Chairperson of the Oakland County Board of Commissioners

Helaine Zack, Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: None

Minutes of the meeting held October 23, 2018 were presented for consideration. It was moved by Zack, supported by Woodward, that the minutes be approved.

ADOPTED: Yeas - 3  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A Memorandum from John Basch, Senior Attorney, dated December 17, 2019 recommending the Board authorize the Chairperson to execute all necessary documents, including legal notice, to vacate the existing easement after a new easement is established for the relocated drain (as attached) was presented. It was moved by Zack, supported by Woodward, to authorize the Chairperson to execute all necessary documents, including legal notice, to vacate the existing easement after a new easement is established for the relocated drain.

ADOPTED: Yeas - 3  
Nays - 0

It was moved by Nash, supported by Zack, to certify attendance and authorize pro rata payment of \$25 per day to Mr. Woodward and Ms. Zack.

ADOPTED: Yeas - 3  
Nays - 0

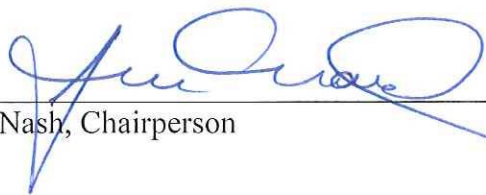
There being no further business, the meeting was adjourned.

  
\_\_\_\_\_  
Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Richton Relief Drains, Oakland County, Michigan, held on the 17<sup>th</sup> day of December, 2019, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board of the Richton Relief Drains Drainage District.

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: January 2<sup>nd</sup>, 2020

**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Richton Relief Drain**

Assessment for current fund deficit and estimated maintenance expenses for fiscal years: 2021 through 2023

Date last assessment approved:	10/23/18	
Last Assessment:		\$8,751
Current Available Cash:		(\$15,316)

<b>Expenditure History:</b>	<b>Fiscal Year</b>	<b>Amount</b>
	2014	\$1,622
	2015	\$980
	2016	\$1,708
	2017	\$1,135
	2018	\$1,037
	2019	\$3,755
	2020	\$15,935

<b>Estimated Expenditures:</b>	<b>Year</b>	<b>Amount</b>
	2021	\$2,100
	2022	\$2,100
	2023	\$2,100
	<b>Total</b>	<b>\$6,300</b>

**Recommended Assessment:**

Current Cash Deficit	\$15,316
Total Anticipated Expenses 2021 - 2023	\$6,300
Proposed Special Maintenance Expenses	\$5,000
<b>TOTAL RECOMMENDED ASSESSMENT</b>	<b>\$26,616</b>

Prepared by: Michael R. McMahon Date: July 27, 2021  
Michael R. McMahon, P.E. - Chief Engineer

Approved by: Steven Korth Date: July 27, 2021  
Steven A. Korth, P.E. - Manager

Note: Current Available Cash as of May 31, 2021, Fiscal Services Division Report.



# SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE OF THE RICHTON RELIEF DRAIN

Public Corporation	*Percentage of Apportionment	Total Amount of Assessment	Payment #1	Payment #2	Payment #3
City of Pontiac	100.000%	\$ 26,616.00	\$ 26,616.00	-	-
Total	<b>100.000%</b>	<b>\$ 26,616.00</b>	<b>\$ 26,616.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 6/29/1967.

Assessment Payment Due Date(s): Payment #1 08/31/2021

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Richton Relief Drain for the fiscal years 2021- 2023 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Richton Relief Drain

The foregoing Special Assessment Roll for the maintenance of the Richton Relief Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Richton Relief Drain

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the RICHTON RELIEF DRAINS

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting

*Sj Phelps*

**DATE:** July 27, 2021

**SUBJECT:** Request for Reimbursement of Drain Revolving Fund

The following is a detail of charges paid from the Drain Revolving Fund  
for the period ending July 20, 2021.

<u>Date</u>	<u>Ref No.</u>	<u>Paid To</u>	<u>For</u>	<u>Amount</u>
2/28/2020	Feb 2020 Pcard	21st Century Media	Pcard - Publishing Legal Notices	\$ 842.25
				<u>\$ 842.25</u>

## **13. Rowland Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE ROWLAND DRAIN**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of June 17, 2008
3. Public Comments
4. Present Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$4,500
5. Present Resolution to Close Construction Fund and Special Assessment Roll No. 1 in the amount of \$2,150.17
6. Other business
7. Approve pro rata payment to Drainage Board members
8. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE  
BOARD FOR THE ROWLAND DRAIN**

June 17, 2008

At a meeting of the Drainage Board for the Rowland Drain held in the office of the Oakland County Drain Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan, on the 17th day of June, 2008.

The meeting was called to order at 1:00 p.m. E.D.T. by the Acting Chairperson.

PRESENT: Joseph P. Kozma,  
Deputy & Manager  
Engineering & Construction,  
Acting Chairperson

Bill Bullard, Jr., Chairperson of the  
Oakland County Board of Commissioners

ABSENT: John P. McCulloch, Chairperson and  
Oakland County Drain Commissioner

Mike Rogers, Chairperson of the  
Finance Committee,  
Oakland County Board of Commissioners

Kevin R. Larsen,  
Chief Deputy Drain Commissioner

ALSO

PRESENT: Philip Sanzica,  
Chief Engineer

Sue Piddington,  
Chief Engineer

Joseph W. Colaianne,  
Insurance Administrator

Lynn Sonkiss,  
Chief of Fiscal Services

Shawn Phelps,  
Fiscal Services

Elaine Van Dyke,  
Secretary

Peg Moulder,  
Drain Operations Clerk

J. Bryan Williams  
Dickinson Wright PLLC

Dan Mitchell  
Hubbell, Roth & Clark, Inc.

The Acting Chairperson presented the minutes of the meeting of this Board held on May 20, 2008. Upon motion by Bullard, seconded by Kozma, and unanimously adopted, the minutes were approved as presented.

There were no public comments.

The Acting Chairperson offered proofs of the publication and mailing of notice of the public hearing. It was moved by Bullard, seconded by Kozma and unanimously adopted that the proofs of publication and mailing be received and filed in the office of the Chairperson of the Drainage Board.

The Acting Chairperson then opened the hearing and asked if there were any written objections. Ms. Van Dyke reported that there were no written objections on file, but that correspondence was received from the City of Pontiac. The Acting Chairperson then read into the record the correspondence from the City of Pontiac, a copy of which is attached as Exhibit A.

The Acting Chairperson then asked if there were any comments or objections from those present at the hearing. There were none.

The Acting Chairperson then closed the public hearing. After the hearing, the following resolution was offered by Bullard and seconded by Kozma:

WHEREAS, the Drainage Board for the Rowland Drain, on the 20<sup>th</sup> day of May, 2008, tentatively established apportionments of the cost of the Rowland Drain, to be borne by the several public corporations, as follows:

City of Pontiac	100.00%
County of Oakland, on account of drainage to county highways	0 %
State of Michigan, on account of drainage to state highways	0 %

WHEREAS, after due notice the Drainage Board met on the 17<sup>th</sup> day of June, 2008, to hear any objections to the apportionments; and

WHEREAS, the apportionments of cost have been made by taking into consideration the benefits to accrue to each of the public corporations to be assessed and by taking into consideration the extent to which each public corporation contributes to the conditions which made the Rowland Drain necessary, limiting such factors in the case of the County of Oakland and the State of Michigan solely to the drainage of county and state highways; and

WHEREAS, this Drainage Board has given due and full consideration to all objections offered thereto; and

WHEREAS, the Rowland Drain is necessary for the public health.

NOW, THEREFORE, BE IT RESOLVED by the Drainage Board for the Rowland Drain:

1. The apportionments of cost as above set forth be and the same are fixed and confirmed.

2. The Acting Chairperson of this Drainage Board is authorized and directed to issue on behalf of the Board its Final Order of Apportionment setting forth the several apportionments as herein fixed and confirmed.

3. All former resolutions and orders of this Board, insofar as the same may be in conflict with the terms of this resolution, are rescinded.

ADOPTED: Yeas: 2  
Nays: 0

The Acting Chairperson proceeded to sign the Final Order of Apportionment as directed in the foregoing resolution. The order was dated June 17, 2008, and, upon motion by Bullard, supported by Kozma and unanimously adopted, was accepted and filed with the Acting Chairperson.

There was no other business.

It was moved by Kozma and supported by Bullard, to certify attendance and authorize pro rata share payment of \$25 per day to Mr. Bullard.

ADOPTED: Yeas - 2  
Nays - 0

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

---

Acting Chairperson

Date: June 17, 2008

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Rowland Drain, Oakland County, Michigan, held on the 17<sup>th</sup> day of June, 2008 and that the said minutes are on file in the office of the Oakland County Drain Commissioner and are available to the public.

I further certify that notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Drain Commissioner which is the principal office of the Rowland Drainage District.

---

Joseph P. Kozma, Acting Chairperson

Dated: June \_\_\_\_, 2008



**OAKLAND COUNTY WATER RESOURCES COMMISSIONER**  
**MAINTENANCE ASSESSMENT RECOMMENDATION FOR THE**  
**Rowland Drain**

Assessment for estimated maintenance expenses for fiscal years: 2021 through 2023

Date last assessment approved:	N/A	
Last Assessment:		N/A
Current Available Cash:		\$0

<b>Expenditure History:</b>	<b>Fiscal Year</b>	<b>Amount</b>
	2018	\$154
	2019	\$0
	2020	\$0

<b>Estimated Expenditures:</b>	<b>Year</b>	<b>Amount</b>
	2021	\$1,500
	2022	\$1,500
	2023	\$1,500
	<b>Total</b>	<b>\$4,500</b>

**Recommended Assessment:**

Current Cash Deficit	\$0
Total Anticipated Expenses 2021 - 2023	\$4,500

<b>TOTAL RECOMMENDED ASSESSMENT</b>	<b>\$4,500</b>
-------------------------------------	----------------

Prepared by: <u>Michael R. McMahon</u>	Date: <u>July 27 , 2021</u>
Michael R. McMahon, P.E. - Chief Engineer	

Approved by: <u>Steven Korth</u>	Date: <u>July 27, 2021</u>
Steven A. Korth, P.E. - Manager	

Note: Current Available Cash as of May 31, 2021, Fiscal Services Division Report.

**SPECIAL ASSESSMENT ROLL FOR THE MAINTENANCE  
OF THE ROWLAND DRAIN**

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>	<b>Payment #1</b>	<b>Payment #2</b>	<b>Payment #3</b>
City of Pontiac	100.000%	\$ 4,500.00	\$ 4,500.00	-	-
<hr/>					
Total	<b>100.000%</b>	<b>\$ 4,500.00</b>	<b>\$ 4,500.00</b>	<b>\$ -</b>	<b>\$ -</b>

\*Apportionment based on Final Order of Apportionment dated 6/17/2008.

Assessment Payment Due Date(s): Payment #1 08/31/2021

I hereby certify that I have prepared the Special Assessment Roll for the Maintenance of the Rowland Drain for the fiscal years 2021- 2023 in accordance with the direction of the Drainage Board and the statutory provisions applicable thereto.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Rowland Drain

The foregoing Special Assessment Roll for the maintenance of the Rowland Drain was approved by the Drainage Board on \_\_\_\_\_.

\_\_\_\_\_  
Jim Nash  
Chairman of the Drainage Board for the Rowland Drain

**Proposed Resolution for the Rowland Drain  
Close Construction Fund  
7/27/2021**

WHEREAS, pursuant to Chapter 20, Act 40 of the Public Acts of 1956, as amended, the Drain Code, the Rowland Drain was constructed; and

WHEREAS, the construction of the Rowland Drain is complete and it has been determined that there is a construction fund deficit of \$2,150.17; and

WHEREAS, a special assessment will be presented to the Drainage Board in the amount of \$2,150.17 to close out the Rowland Construction Fund.

THEREFORE BE IT RESOLVED, the Drainage Board for the Rowland Drain approves the closure of the construction fund with a special assessment.

I certify that the above Resolution was adopted by the Board of the Rowland Drain July 27, 2021.

---

Jim Nash, Chairperson

**SPECIAL ASSESSMENT ROLL NO. 1**  
**FOR**  
**ROWLAND DRAIN**  
**(An Intra-County Drain in Oakland County, MI)**

PROJECT: Close out Construction Fund

CURRENT FUND BALANCE: (\$2,150.17)

AMOUNT TO BE ASSESSED: \$2,150.17

<b>Public Corporation</b>	<b>*Percentage of Apportionment</b>	<b>Total Amount of Assessment</b>
City of Pontiac	100.000%	\$ 2,150.17
<hr/>		
Total	<b>100.000%</b>	<b>\$ 2,150.17</b>

\*Apportionment based on Final Order of Apportionment dated 6/17/2008.

Assessment Payment Due Date: 08/31/2021

I hereby certify that the forgoing Special Assessment Roll was prepared in accordance with the directions of the Drainage Board for the Rowland Drain and the statutory provisions applicable thereto.

---

Jim Nash  
Chairman of the Drainage Board for the Rowland Drain

The foregoing Special Assessment Roll was approved for the Rowland Drain on \_\_\_\_\_

---

Jim Nash  
Chairman of the Drainage Board for the Rowland Drain

## **14. Hamlin Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE HAMLIN DRAIN**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of February 25, 2020
3. Public Comments
4. Present request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$7,561.75
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE HAMLIN DRAIN**

February 25, 2020

A meeting of the Drainage Board for the Hamlin Drain was held in the office of the Oakland County Water Resources Commissioner, Public Works Building, One Public Works Drive, Waterford, Michigan at 11:30 a.m. on the 25<sup>th</sup> day of February, 2020.

The meeting was called to order by the Chairperson.

PRESENT: Jim Nash, Oakland County Water Resources Commissioner

Gwen Markham, Vice Chairperson of the Finance Committee, Oakland County Board of Commissioners

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners

Helaine Zack, Chairperson of the Finance Committee, Oakland County Board of Commissioners

Minutes of the meeting held February 28, 2017 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ADOPTED: Yeas - 2  
Nays - 0

Chairperson Nash asked if there were any public comments. There were none.

A Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$24,101 for the Hamlin Drain (as attached) were presented. It was moved by Markham, supported by Nash, to adopt the Maintenance Assessment Recommendation and Special Assessment Roll in the amount of \$24,101 as presented.

ADOPTED: Yeas - 2  
Nays - 0

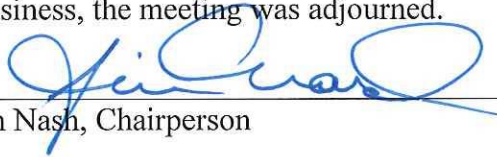
A request for reimbursement of the Drain Revolving Fund in the amount of \$169.98 (as attached) was presented. It was moved by Markham, supported by Nash, that the Drain Revolving Fund be reimbursed in the amount of \$169.98.

ADOPTED: Yeas - 2  
Nays - 0

It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ADOPTED: Yeas - 2  
Nays - 0

There being no further business, the meeting was adjourned.

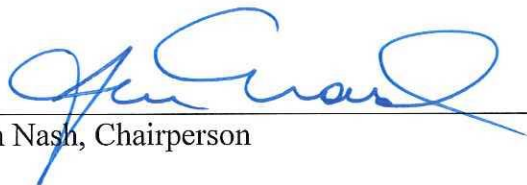
  
\_\_\_\_\_  
Jim Nash, Chairperson



STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board of the Hamlin Drain, Oakland County, Michigan, held on the 25<sup>th</sup> day of February, 2020, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board of the Hamlin Drain Drainage District.

  
\_\_\_\_\_  
Jim Nash, Chairperson

Dated: March   9  , 2020

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the HAMLIN DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting



**DATE:** July 27, 2021

**SUBJECT:** Request for Reimbursement of Drain Revolving Fund

The following is a detail of charges paid from the Drain Revolving Fund  
for the period ending July 20, 2021.

Date	Ref No.	Paid To	For	Amount
6/30/2020	TBP	Pipeline Management Co Inc	Invoice # 2021-076 - Contracted Services - 06/07/21 - 6/1/18/2	\$ 4,552.00
4/19/2020	V # 1450172	United Resources	Invoice # 20-0035- Contracted Services	\$ 2,907.35
	V # 1434491	Oakland Heights	Invoice # 4-4243-0333349 Sludge Removal	\$ 102.40
				<u>\$ 7,561.75</u>

## **15. Nichols Drain**

## **AGENDA**

### **DRAINAGE BOARD FOR THE NICHOLS RELIEF DRAIN**

July 27, 2021

1. Call meeting to order
2. Approve minutes of meeting of June 22, 2021
3. Public Comments
4. Present request for Board approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$29,161.46
5. Other business
6. Approve pro rata payment to Drainage Board members
7. Adjourn

**MINUTES OF THE MEETING OF THE DRAINAGE BOARD  
FOR THE NICHOLS RELIEF DRAIN**

June 22, 2021

A meeting of the Drainage Board for the Nichols Relief Drain was held at 2:00 p.m. on the 22<sup>nd</sup> day of June, 2021. Due to the COVID-19 pandemic, the meeting was conducted electronically via GoToMeeting in accordance with PA 254 of 2020, as may be amended from time to time and/or as otherwise provided by law.

The meeting was called to order by the Chairperson. The Board indicated where they were physically located at the time of the meeting as follows:

PRESENT: Jim Nash, Oakland County Water Resources Commissioner, participating from Farmington Hills, Michigan.

Gwen Markham, Chairperson of the Finance Committee, Oakland County Board of Commissioners, participating from Novi, Michigan.

ABSENT: David Woodward, Chairperson of the Oakland County Board of Commissioners.

Minutes of the meeting held November 17, 2020 were presented for consideration. It was moved by Markham, supported by Nash, that the minutes be approved.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

Chairperson Nash asked if there were any public comments. There were none.

A request for approval of payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$9,582.82 (as attached) was presented. It was moved by Markham, supported by Nash, to approve the payment of invoices and reimbursement of the Drain Revolving Fund in the amount of \$9,582.82.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

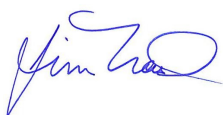
It was moved by Nash, supported by Markham, to certify attendance and authorize pro rata payment of \$25 per day to Ms. Markham.

ROLL CALL VOTE:

NASH: AYE

MARKHAM: AYE

There being no further business, the meeting was adjourned.

A handwritten signature in blue ink, appearing to read "Jim Nash", is positioned above a horizontal line.

---

Jim Nash, Chairperson

STATE OF MICHIGAN                    )  
  )SS.  
COUNTY OF OAKLAND                )

I, the undersigned, do hereby certify that the foregoing is a true and complete copy of the minutes of the Drainage Board for the Nichols Relief Drain, Oakland County, Michigan, held on the 22<sup>nd</sup> day of June, 2021, and that the minutes are on file in the office of the Oakland County Water Resources Commissioner and are available to the public.

I further certify that the notice of the meeting was posted at least 18 hours in advance of the meeting at the office of the Oakland County Water Resources Commissioner which is the principal office of the Drainage Board for the Nichols Relief Drain.



---

Jim Nash, Chairperson

Dated: June 22, 2021

**MEMO TO:** Mr. Jim Nash, Chairman  
of the Drainage Board for the NICHOLS RELIEF DRAIN

**FROM:** Shawn Phelps, Chief of Fiscal Services  
OCWRC Accounting



**DATE:** July 27, 2021

**SUBJECT:** Request for Approval of Invoices

The following is a detail of charges paid from the Drain Revolving Fund and Invoices  
for the period ending July 20, 2021.

Date	Ref No.	Paid To	For	Amount
7/9/2021	V # 1539992	Pipeline Management Co. Inc	Invoice # 2021-075 - Inspection - 06/07/21 - 06/18/21	\$ 8,561.82
6/21/2021	V # 1535128	Pipeline Management Co. Inc	Invoice # 2021-058 - Inspection - 05/07/21 - 05/21/21	\$ 16,983.32
6/21/2021	V # 1535189	Detroit Pump & Mfg Co	Invoice # 1066614 - Materials and Supplies	\$ 3,450.75
2/18/2021	JE # 352105	Meadowbrook Insurance Co	Invoice # 129571 - FY-2021 Insurance Allocation	165.57
			<b>Total</b>	<b>\$ 29,161.46</b>