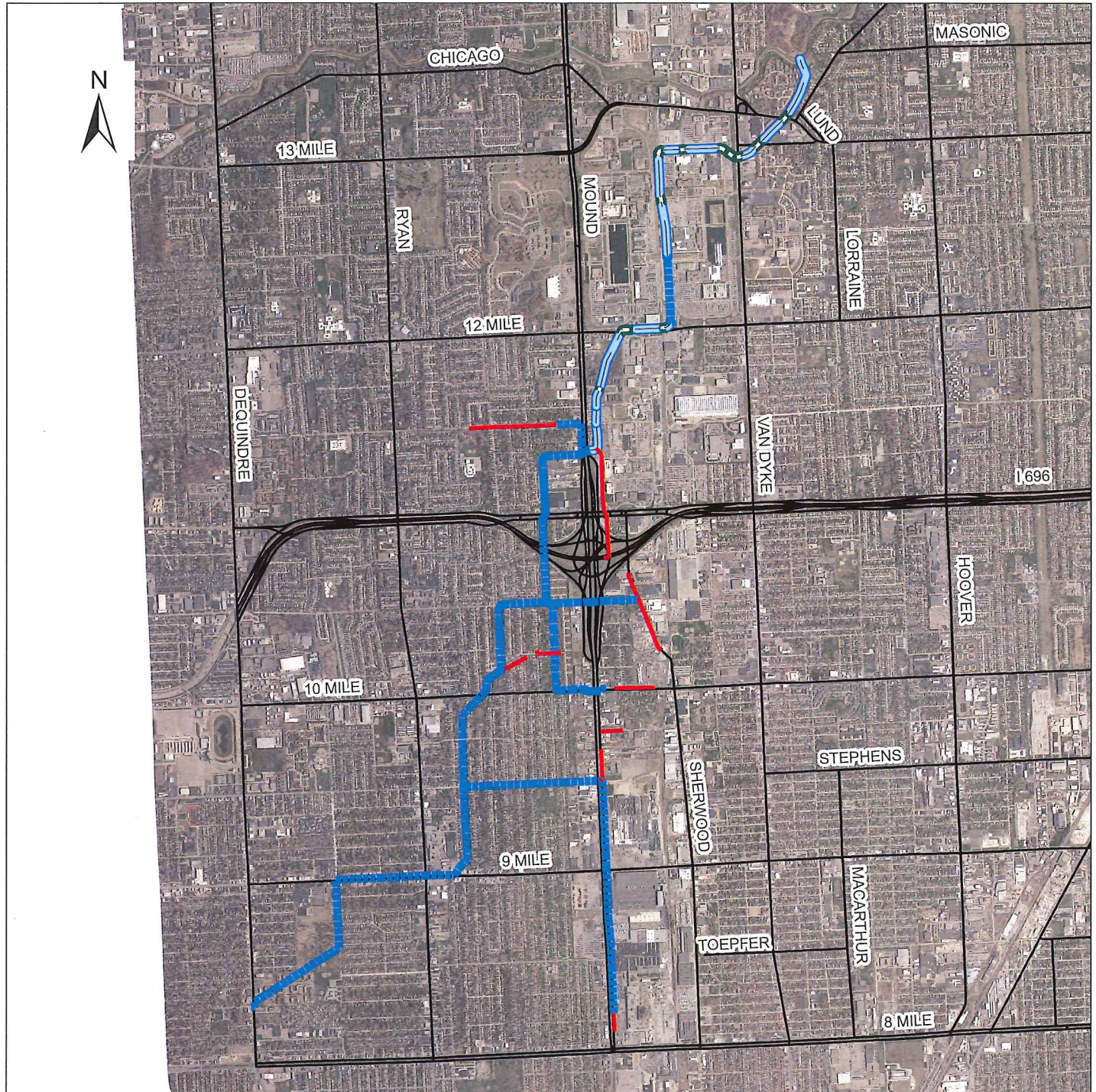


BEAR CREEK  
INTER-COUNTY DRAINAGE BOARD  
NOVEMBER 29, 2017  
10:00 a.m.  
AGENDA

	<u>Page</u>
1. Call meeting to order and roll call	
2. Approval of Agenda	
3. Public participation	
4. Approval of minutes of meeting of October 25, 2017	3
5. Progress Report Update – Anderson, Eckstein & Westrick, Inc.	6
6. Consideration of approval of invoices:	8
See attached spreadsheet	
7. Financial Update – Bruce Manning	9
8. Surplus Property Update – Tamara Keskeny	
9. Old Business	
10. New Business	
11. Adjourn	

# BEAR CREEK DRAIN (INTER COUNTY) & BRANCHES

## CENTERLINE/WARREN/OAKLAND COUNTY



Drain Length (Feet/Miles):  
87,023.47 / 16.48

### Legend

- | Enclosed Gravity                             | Open Channel |
|--|--------------|
| <span style="color: red;">—</span> < 60" Dia | Ditch        |
| >= 60" Dia                                   | Pond         |
| Culvert                                      |              |

A meeting of the Inter-County Drainage Board for the **BEAR CREEK DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham Road, Clinton Township, Michigan on October 25, 2017.

PRESENT: Michael Gregg, Chairman  
Michigan Department of Agriculture & Rural Development

Candice Miller, Secretary  
Macomb County Public Works Commissioner

Jim Nash, Member  
Oakland County Water Resources Commissioner

ALSO PRESENT: Brian Baker, Chief Deputy, Karen Czernel, Deputy, Keith Graboske, P.E., Chief Engineer, Bruce Manning, Financial Manager, Tom Stockel, Construction Manager, Tamara Keskeny, Property Manager, Jeff Bednar, P.E., CFM, Environmental Engineer, Lara Sucharski, Supervisor, Soil Erosion & Sediment Division, Barbara Delecke, Administrative Services, Office of Macomb County Public Works Commissioner; Steve Korth, P.E., Manager, Jim Wineka, P.E., Assistant Chief Engineer, Joel Kohn, P.E., Engineering Systems Coordinator, Office of Oakland County Water Resources Commissioner; Gordon Wilson, P.E., Sydney Kanan, Graduate Engineer, Anderson, Eckstein & Westrick, Inc. (AEW)

The Chairman called the meeting to order at 11:40 a.m.

A motion was made by Ms. Miller, supported by Mr. Nash to approve the agenda as presented.

Adopted: YEAS: 3  
NAYS: 0

The minutes of the meeting of September 27, 2017 were presented. A motion was made by Mr. Nash, supported by Ms. Miller to approve the minutes as presented.

Adopted: YEAS: 3  
NAYS: 0

Ms. Kanan updated the board on work being done as a result of SAW Grant findings. A prioritized estimate of costs for the infrastructure rehabilitation was provided to the board, which includes the backyard sinkhole caused by a failing catch basin. There are nine other structures that are corrugated metal pipe (CMP) in the same general vicinity as the catch basin that need repair. These nine structures are in good condition. The board was asked to approve the final scope of work. The next step will be to finalize the specifications and send out to bid. Mr. Korth spoke about the reconciliation of budgets between all Bear Creek drains before beginning work on the rehabilitation. Stacey Hissong, Fahey, Schultz, Burzych, Rhodes, PLC is working with AEW to finalize the district delineation. Once the district delineation is complete, funds can be aggregated for the necessary rehabilitation. Annette DeMaria, ECT is working to locate past IDEP sampling results.

A motion to have AEW prepare a bid for necessary work and Fahey, Schultz, Burzych, Rhodes, PLC to present their findings on the district delineation at the November 29, 2017 meeting was made by Ms. Miller, supported by Mr. Nash.

Adopted: YEAS: 3  
NAYS: 0

The Chairman presented the invoices totaling \$17,614.75 as provided to the board for review and approval.

Motion was made by Ms. Miller, supported by Mr. Nash to approve the invoices as presented.

Adopted: YEAS: 3  
NAYS: 0

Mr. Stockel updated the board on the sinkhole repair on GM property. The repair is complete and property has been restored. GM's contractor will begin work on the concrete wash repair next week. Pictures of the concrete wash project should be available for the November meeting.

A motion was made by Ms. Miller, supported by Mr. Nash to receive and file the sinkhole and concrete wash report given by Mr. Stockel.

Adopted: YEAS: 3  
NAYS: 0

Letters were sent to homeowners that surround the vacant property. Six residents responded favorably to taking a portion of the property, one did not want the property and two did not respond. Ms. Keskeny will attempt to contact the residents that did not respond by making a site visit. It has yet to be determined the survey needs and how the property will be split, but the property will remain as a drain easement.

A motion was made by Mr. Nash, supported by Ms. Miller to receive and file the verbal update given by Ms. Keskeny.

Adopted: YEAS: 3  
NAYS: 0

A motion was made by Ms. Miller, supported by Mr. Nash to receive and file the financial report given by Mr. Manning.


Adopted: YEAS: 3  
NAYS: 0

Mr. Bednar and the Macomb County Department of Roads have been in discussions with GM and TACOM about site improvements to their properties that may benefit the Bear Creek Drain. GM is looking to increase the drain capacity through the GM Tech Center property. By improving the drain, it could lower the hydraulic grade line by about two feet. Green infrastructure would improve water quality, but not peak flow rates.

There being no further business, it was moved by Mr. Nash, supported by Ms. Miller, that the meeting of the Bear Creek Inter-County Drainage Board be adjourned.

Adopted: YEAS: 3  
NAYS: 0

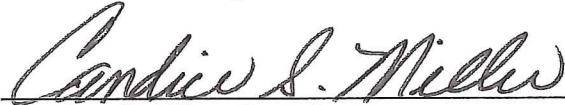
The meeting was adjourned at approximately 12:02 p.m.



Candice S. Miller, Secretary  
Bear Creek Inter-County Drainage Board

STATE OF MICHIGAN  
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Inter-County Drainage Board for the Drainage District shown on the attached set of Minutes, on October 25, 2017, the original of which is on file in the Public Works Commissioner's Office. Public notice of the meeting was given pursuant to Act No. 267, Public Acts of Michigan, 1975, including, in the case of a special or rescheduled meeting or a meeting secured for more than 36 hours, notice by posting at least 18 hours prior to the time set for the meeting.



Candice S. Miller, Secretary  
Bear Creek Inter-County Drainage Board

DATED: 10/26/17

8973.bd

# PROGRESS UPDATE

**PROJECT:** Bear Creek Infrastructure Rehabilitation  
Bear Creek District Delineation  
Bear Creek Green Infrastructure

**DATE:** November 21, 2017

**UPDATE BY:** Sydney Kanan

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## BEAR CREEK INFRASTRUCTURE REHABILITATION

### Tasks accomplished:

- a. Construction plans have been compiled.
- b. Prioritized cost estimate for repairs has been compiled. (\$785,330.00)
  - o Estimate includes open channel repair and sinking catch basin replacement presented at previous meetings.
- c. Determined number of structures which were constructed of CMP (9).
- d. Compiled contract documents and specifications for bids.

### Anticipated tasks:

- a. AEW will provide contract documents, specifications and construction plans to MCPWO and OCWRC for 90% review.
- b. Bid package will be available to bidder pending review comments from MCPWO and OCWRC

### Requested Information/Actions from OMCPWC:

- a. N/A

## BEAR CREEK DISTRICT DELINEATION

### Tasks accomplished:

- a. All pertinent documents have been reviewed and cataloged from Macomb County and Oakland County Offices
- b. AEW has started assembling a base map, and calculating the drain right of way
- c. AEW is performing additional research at MCPWO and MDARD

### Anticipated tasks:

- a. Complete base map and determine what branches of the drain are under the jurisdiction of the Inter-County Drainage Board for the Bear Creek

### Requested Information/Actions from OMCPWC:

- a. N/A

**BEAR CREEK GREEN INFRASTRUCTURE**

**Tasks accomplished:**

- a. N/A

**Anticipated tasks:**

- a. Determine framework for introducing green infrastructure to communities within the Bear Creek Drainage District.

**Requested Information/Actions from OMCPWC:**

- a. N/A

BEAR CREEK - 11/29/17

<u>Funding Source</u>	<u>Apportionment</u>	<u>Manager</u>	<u>Vendor</u>	<u>Amount</u>	<u>Invoice Detail</u>	<u>Project Summary</u>	<u>Project Balance</u>
Bear Creek	Chapter 21	Bednar	Anderson, Eckstein & Westrick, Inc.	\$ 7,000.00	Invoice #011580 - 10/12/17 Engineering Services - 8/21/17 - 9/17/17	Infrastructure Rehabilitation	\$ 14,000.00
		Bednar	Anderson, Eckstein & Westrick, Inc.	\$ 3,360.50	Invoice #0115581 - 10/12/17 Engineering Services - 8/21/17 - 9/17/17	District Deineation	
		Bednar	Anderson, Eckstein & Westrick, Inc.	\$ 904.50	Invoice #0115874 - 11/6/17 Engineering Services - 9/18/17 - 10/15/17	District Deineation	
		Slanec	Ultimate Lawn Service	\$ 520.00	Invoice #3801 - 9/19/17	Mowing of Drain	
		Slanec	Ultimate Lawn Service	\$ 520.00	Invoice #3812 - 10/3/17	Mowing of Drain	
<b>Total</b>				<b>\$ 12,305.00</b>			



YTD Trial Balance

Fund: Bear Creek

As of Fiscal Period: Oct 1, 2017-Oct 31, 2017

	O&M Balance 9/30/2017	O&M	Total 10/31/2017
Cash - Operating	216,978	59	217,037
Accounts Receivable			0
Assets			0
Liabilities		29,921	29,921
Revenues		59	59
Expenditures		29,921	29,921
Equity	216,978		187,116
	0		

NOTES

OTHER BEAR CREEK AVAILABLE CASH BALANCES	10/31/2017
Bear Creek Enclosure	811,733
Bear Creek GM Enclosure	3,144
Bear Creek Warren Branches	401,513
Bear Creek Warren Branches #2	134,794
<b>TOTAL ALL BEAR CREEK</b>	<b>1,538,300</b>