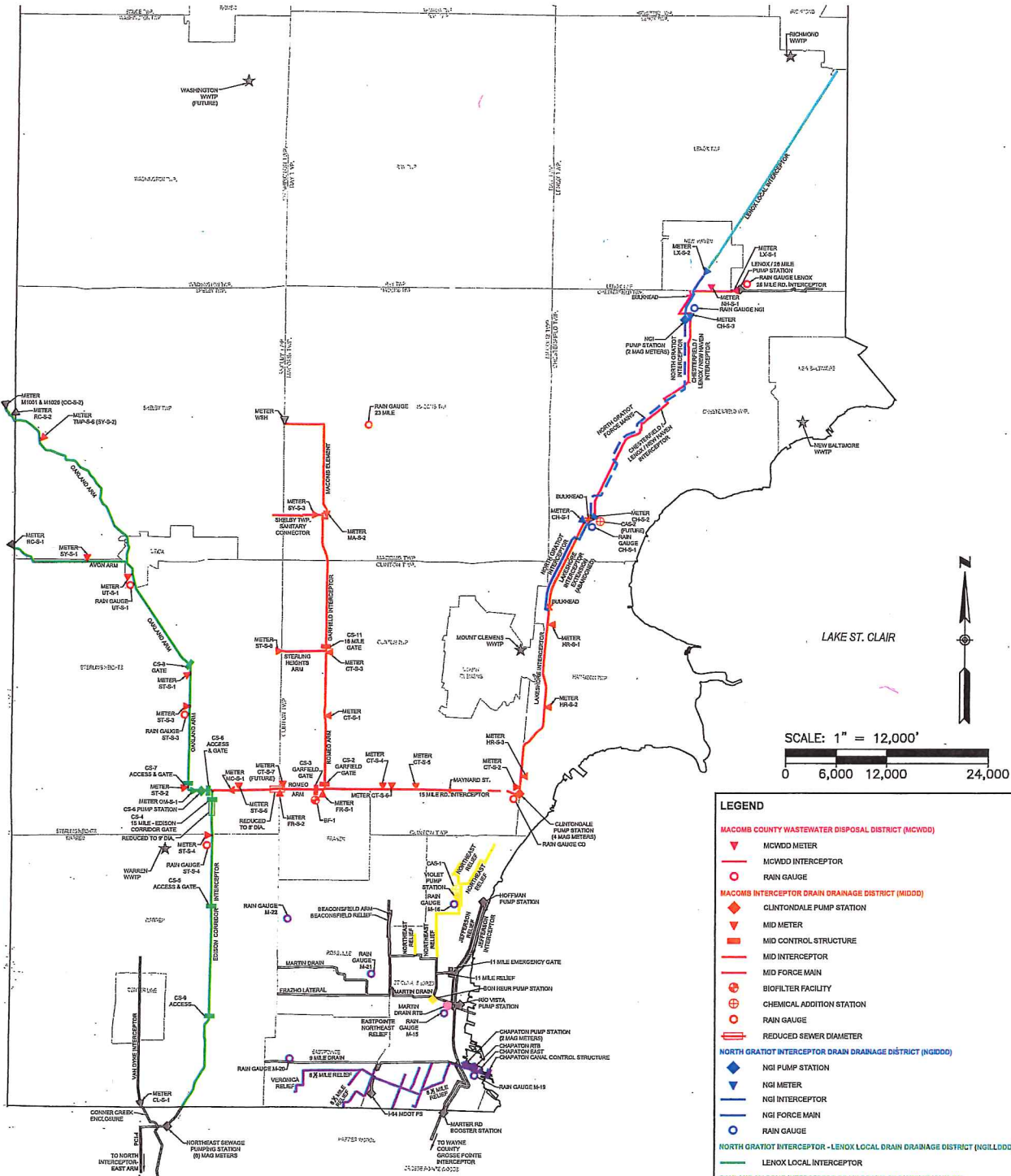


EIGHT AND ONE-HALF MILE RELIEF DRAIN  
INTRA-COUNTY DRAINAGE BOARD  
JULY 10, 2017  
10:00 A.M.  
AGENDA

	Page
1. Call of meeting to order and roll call	
2. Approval of Agenda for July 10, 2017	
3. Approval of Minutes for June 12, 2017	3
4. Public participation	
5. Progress Report – Vincent Astorino	5
6. Consideration for approval of invoices (see attached)	9
7. Financial Report – Bruce Manning	20
8. Adjourn	

# MACOMB COUNTY WASTEWATER SYSTEMS



- LEGEND**
- ▼ MACOMB COUNTY WASTEWATER DISPOSAL DISTRICT (MCWDD)
    - MCWDD METER
    - MCWDD INTERCEPTOR
    - RAIN GAUGE
  - ◆ MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (MIDD)
    - CLINTONDALE PUMP STATION
    - MID METER
    - MID CONTROL STRUCTURE
    - MID INTERCEPTOR
    - MID FORCE MAIN
    - BIOFILTER FACILITY
    - CHEMICAL ADDITION STATION
    - RAIN GAUGE
    - REDUCED SEWER DIAMETER
  - ◆ NORTH GRATIOT INTERCEPTOR DRAIN DRAINAGE DISTRICT (NGIDD)
    - NGI PUMP STATION
    - NGI METER
    - NGI INTERCEPTOR
    - NGI FORCE MAIN
    - RAIN GAUGE
  - ◆ NORTH GRATIOT INTERCEPTOR - LENOX LOCAL DRAIN DRAINAGE DISTRICT (NGILLDOD)
    - LENOX LOCAL INTERCEPTOR
  - ◆ OAKLAND-MACOMB INTERCEPTOR DRAIN DRAINAGE DISTRICT (OMIDD)
    - CS-6 PUMP STATION
    - OMID METER
    - OMID CONTROL STRUCTURE
    - OMID INTERCEPTOR
    - REDUCED SEWER DIAMETER
  - ◆ 1/2 MILE RELIEF DRAIN DRAINAGE DISTRICT
    - CHAPATON WEST PUMP STATION
    - CHAPATON RETENTION TREATMENT BASIN
    - CHAPATON CANAL CONTROL GATE
    - 1/2 MILE INTERCEPTOR
    - RAIN GAUGE
  - ◆ SEMCWD3 PUMP STATION
  - ◆ CHEMICAL ADDITION STATION
  - ◆ SEMCWD3 INTERCEPTOR
  - ◆ MARTIN SANITARY DIVERSION DRAINAGE DISTRICT (MSIDD)
    - MARTIN DRAIN RETENTION TREATMENT BASIN
  - OTHER SYSTEMS**
    - ◆ PUMP STATION
    - ▼ METER
    - ★ WWTP
    - INTERCEPTOR

**Candice S. Miller**  
 MACOMB COUNTY PUBLIC WORKS COMMISSIONER



An adjourned meeting of the Intra-County Drainage Board for the **EIGHT AND ONE-HALF MILE RELIEF DRAIN** was held in the Office of the Macomb County Public Works Commissioner, 21777 Dunham, Clinton Township, Michigan, on June 12, 2017, at 10:05 A.M.

PRESENT: Candice S. Miller, Chair  
Bryan Santo, Member  
Veronica Klinefelt, Member

ALSO PRESENT: Robert Mijac, Joseph Romano, Macomb County Board of Commissioners; Brian Baker, Chief Deputy, Karen Czernel, Deputy, Emily Engleman, Administrative Assistant, Keith Graboske, P.E., Chief Engineer, Dan Heaton, Public Relations Manager, Vincent Astorino, Engineer II, Evans Bantios, Engineer II, Lynne Seymour, Environmental Engineer II, Thomas Stockel, Construction Engineer, Bruce Manning, Acting Financial Manager, Barbara Delecke, Administrative Services, Macomb County Public Works; Benjamin Aloia, Aloia & Associates; Lou Urban, Anderson, Eckstein & Westrick, Inc.; Don Coddington, Chesterfield Township; Mary Bednar, P.E., Clinton Township; Maria Sedki, P.E., Kevin Ostrowski, P.E., Fishbeck, Thompson, Carr & Huber, Inc.; Mike Homier, Foster-Swift; Jamie Burton, P.E., Brad Shepler, Hubbell, Roth & Clark, Inc.; AG Mekkaoui, Jay Dee Contractors; Chris Dilbert, Village of New Haven; George and Fran Parker, Sterling Heights; David Wilemski, Victor Karns, Chesterfield Township

The meeting was called to order by the Chair, Candice Miller. The agenda was approved as presented.

Minutes of the meeting of May 8, 2017 were presented and approved on a motion by Ms. Klinefelt, supported by Mr. Santo and unanimously carried.

The meeting was opened to public participation, then closed, there being no comments from the public.

Mr. Astorino updated the Board on the SAW Grant. The MDEQ granted a three month extension on the grant. The Capital Improvement Program, metering analysis and NexGen asset management rollout are being finalized. The project is under budget. Ms. Sedki will provide a 3-D Modeling Presentation at the end of the meeting.

A motion to receive and file the progress report update given by Mr. Astorino was made by Ms. Klinefelt, supported by Mr. Santo and unanimously approved.

There are two major air compressors at Chapaton RTB which control the gates that control the water flow through the station. One of these units has failed and needs replacement. Three bids were received and a price for rebuilding the existing unit. Mr. Astorino recommended purchase of the Gardner-Denver unit for a cost of \$11,542.

A motion to approve the purchase of the Chapaton System A – Air Accumulator Replacement unit from Gardner-Denver in the amount of \$11,542 was made by Ms. Klinefelt, supported by Mr. Santo.

Ayes: Klinefelt, Santo, Miller  
Nays: None

Motion approved.

The Chair presented the invoices totaling \$191,660.00 to the board for review and approval.

A motion was made by Ms. Klinefelt, supported by Mr. Santo to approve the invoices as presented.

Ayes: Klinefelt, Santo, Miller  
Nays: None

Motion approved.

A motion to receive and file the financial report given by Mr. Manning was made by Ms. Klinefelt, supported by Mr. Santo and unanimously carried.

A 3-D Modeling Presentation of the Chapaton Retention Basin facility was given by Ms. Sedki, Fishbeck, Thompson, Carr & Huber, Inc.

The meeting was adjourned at 10:23 a.m. on a motion by Mr. Santo, seconded by Ms. Klinefelt, and unanimously approved.

  
Candice S. Miller, Chair  
Macomb County Public Works Commissioner

STATE OF MICHIGAN  
COUNTY OF MACOMB

I certify that the foregoing is a true and correct copy of proceedings taken by the Intra-County Drainage Board for the Drainage District shown on the attached set of minutes, on June 12, 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, Chair  
Macomb County Public Works Commissioner

DATED: 6/14/17

8749.bd





# PROGRESS REPORT

**TO:** Ms. Candice Miller – Macomb County Public Works Commissioner  
Mr. Vincent Astorino – Macomb County Public Works Commissioner’s Office (MCPWCO)

**FROM:** Erin H. Szczegielniak, PE

**DATE:** June 12, 2017

**PROJECT NO.:** 130620

**RE:** 8 1/2 Mile Relief Drain Drainage District  
Stormwater, Asset Management, and Wastewater (SAW)  
Asset Management (AM) – Bi-Weekly Progress Report  
May 30 – June 10, 2017

---

Following is a summary of services completed during the past two weeks and the anticipated tasks for the next two weeks:

**Items accomplished during the reporting period:**

1. Project Management
  - a. Received 3-month extension from the Michigan Department of Environmental Quality (MDEQ).
2. 3D Diagram and Reference Drawings
  - a. Finalized 3D model video demonstration.
3. Discharge Protocol
  - a. Removed flow meters.
  - b. Performed analysis of May rain events.
4. 20-Year Capital Improvements Plan (CIP)
  - a. Attended meeting with MCPWC staff to review revised CIP.
  - b. Moved projects in an effort to stabilize annual budgets.
  - c. Developed a 5-year CIP summary.
  - d. Worked on developing the 5-year District budget.
5. Final Report
  - a. No work this period. Waiting for CIP completion.

**Anticipated tasks for the upcoming report period:**

1. Asset Management Database
  - a. Work with METCO to place record drawings in NEXGEN.
2. 3D Diagram and Reference Drawings
  - a. Attend Drain Board Meeting to present video demonstration.
  - b. Work on providing MCPWCO staff with copy of the 3D model.
3. Preventative Maintenance Program
  - a. Hold follow-up training for MCPWCO staff for NEXGEN and how to use the preventative maintenance forms and daily inspection forms.



4. Discharge Protocol
  - a. Finalize meter analysis.
  - b. Begin work on Tech Memo summarizing task.
5. 20-Year CIP
  - a. Meet with MCPWC finance staff to review 1-year, 5-year, and 20-year CIP, and 5-year budget.
  - b. Finalize CIP.
6. Final Report
  - a. Incorporate final CIP into report.
  - b. Submit draft report for MCPWCO review.

**Needed Information/Actions from MCPWCO/METCO:**

1. Move NEXGEN database from the cloud to the supervisory control and data acquisition (SCADA) server.
2. Embed videos and record drawings into NEXGEN.

nac

By email

cc: Mr. Brian Baker – MCPWCO  
Mr. Pete Trombley – MCPWCO  
Ms. Maria E. Sedki, PE – FTCH



# PROGRESS REPORT

**TO:** Ms. Candice Miller – Macomb County Public Works Commissioner  
Mr. Vincent Astorino – Macomb County Public Works Commissioner’s Office (MCPWCO)

**FROM:** Erin H. Szczegielniak, PE

**DATE:** June 26, 2017

**PROJECT NO.:** 130620

**RE:** 8 1/2 Mile Relief Drain Drainage District  
Stormwater, Asset Management, and Wastewater (SAW)  
Asset Management (AM) – Bi-Weekly Progress Report  
June 12 – June 23, 2017

---

Following is a summary of services completed during the past two weeks and the anticipated tasks for the next two weeks:

**Items accomplished during the reporting period:**

1. 3D Diagram and Reference Drawings
  - a. Attended Drain Board Meeting to present video demonstration.
2. Preventative Maintenance Program
  - a. Scheduled follow-up training for MCPWCO staff for NEXGEN and how to use the preventative maintenance forms and daily inspection forms.
3. Discharge Protocol
  - a. Finalized meter analysis.
  - b. Began work on Tech Memo summarizing task.
4. 20-Year Capital Improvements Plan (CIP)
  - a. Met with MCPWCO finance staff to review 1-year, 5-year, and 20-year CIP, and 5-year budget.
  - b. Finalized CIP.
5. Final Report
  - a. Incorporated final CIP into report.
  - b. Submitted draft report for MCPWCO review.

**Anticipated tasks for the upcoming report period:**

1. Asset Management Database
  - a. Work with METCO to place record drawings in NEXGEN.
  - b. Add manhole replacement costs to NEXGEN.
2. 3D Diagram and Reference Drawings
  - a. Work on providing MCPWCO staff with the following:
    - Copy of the 3D model and viewing program.
    - Copy of all four videos presented at board meeting.
    - Copy of any stills available.
    - PDF copy of the reference drawings.



3. Preventative Maintenance Program
  - a. Hold follow-up training for MCPWCO staff for NEXGEN and how to use the preventative maintenance forms and daily inspection forms.
4. Discharge Protocol
  - a. Finish and submit draft Tech Memo summarizing task.
5. 20-Year CIP
  - a. Task complete. No additional work anticipated at this time.
6. Final Report
  - a. Finalize report based on comments from MCPWCO staff review.

**Needed Information/Actions from MCPWCO/METCO:**

1. Move NEXGEN database from the cloud to the supervisory control and data acquisition (SCADA) server.
2. Embed videos and record drawings into NEXGEN.
3. Review final report.

nac

By email

cc: Mr. Brian Baker – MCPWCO  
Mr. Pete Trombley – MCPWCO  
Ms. Maria E. Sedki, PE – FTCH



8 1/2 MILE RELIEF DRAIN - 7/10/17

Funding Source	Apportionment	Manager	Vendor	Amount	Invoice Detail	Project Summary	Project Balance
8 1/2 Mile Relief	Chapter 20 State of MI - 16.04% County of Macomb - 2.25% Dept. of Roads - 2.25% Eastpointe - 54.33%	Astorino	Compressor Engineering Corp.	\$ 11,638.30	Invoice #093341 - 6/7/17	Replace air compressor for Accumulator "A" system at Chapaton RTB	\$ 299,468.00
		Astorino	DTE Energy	\$ 7,367.84	Monthly Electrical - 5/8/17 - 6/7/17	Chapaton RTB	
	SAW Grant 1173-01	Astorino	Fishbeck, Thompson, Carr & Huber, Inc.	\$ 9,986.58	Invoice #367250 - 5/31/17 Engineering Services - ending 5/19/17	CIP, Metering/Discharge Protocol, 3-D Modeling, Green Infrastructure, O&M Manual	
		Astorino	Kone, Inc.	\$ 613.01	Invoice #949608834 - 5/1/17	Quarterly Maintenance - Elevator at Chapaton RTB	
	SAW Grant 1173-01	Astorino	Martin Control Services	\$ 5,300.00	Invoice #10067 - 5/30/17	Chapaton RTB Flow Monitoring - May 2017	
		Astorino	METCO Consulting Engineers	\$ 9,555.58	Invoice #1615-09 - 6/1/17 Engineering Services - 5/1/17 - 5/28/17	Chapaton CSO Control Facility Operations Management - Terry Moore	
	SAW Grant 1173-01	Astorino	METCO Consulting Engineers	\$ 17,635.00	Invoice #1411-7A - 6/22/17 Engineering Services - 4/1/17 - 5/31/17	Asset Valuation/NexGen	
		Astorino	Metropolitan Air Compressor Co., Inc.	\$ 856.74	Invoice #175722 - 6/7/17	Installation of air compressor for Accumulator "A" system at Chapaton RTB	
		Astorino	PVS Nolwood Chemicals, Inc.	\$ 4,591.02	Invoice #554152 - 5/17/17	Hypochlorite Solution - 4,501 gallons Used in disinfection process	
		Astorino	SEMCWWDS	\$ 4,200.00	Invoice #7433-2017 - 6/15/17	8 1/2 Mile Relief reimbursing SEMCWWDS for Martin Control Services meter maintenance	
		<b>Total</b>			\$ 52,737.93		

CO1484

RECEIVED  
JUN 21 2017  
BY: M4

Invoice# 093341

COMPRESSOR ENGINEERING CORP

1921 BELLAIRE AVE  
ROYAL OAK MI 48067  
Ups Acct 455304,  
Phone: (313) 491-8100 Fax: (313) 491-2766

Account ID MACOMB COUNT	Contact PETE TROMBLEY	
Customer PO 17-9313	Telephone (586) 772-3425	Facsimile

Bill To: Attn: Accounts Payable Dept.

Ship To:

MACOMB COUNTY PUBLIC WORKS  
23001 E 9 MILE ROAD  
SAINT CLAIR SHORES, MI 48080

MACOMB COUNTY PUBLIC WORKS  
23001 E 9 MILE ROAD  
SAINT CLAIR SHORES, MI 48080

Remit To: 1921 BELLAIRE AVE Royal Oak, MI 48067

Special Order  Drop Ship

Invoice Date 06/07/2017	Comments REAVELL 5209	Special Instructions	Terms NET 30 DAYS
Ship Via PPD/ADD	Date Required 06/01/2017	FOB SP	Ship Date 06/02/2017
		From Order# 130085	Salesperson JOHN HAHN
Ordered	Shipped	B.O.	Item# Description
			UOM
			Price
			Total

1 1 0 5209-00 EA \$11,542.00 \$11,542.00

- 15 HP COMPRESSOR UNIT
- 460 VOLT
- STARTER SHIPPED LOOSE
- PRODUCING 23.4 CFM
- MINIMUM PRESSURE 232 PSIG
- MAXIMUM PRESSURE 580 PSIG
- S/N H22839002

SHIPPED 6/2/17 VIA USF HOLLAND, PRO 10607471455, PREPAID, ADDED BELOW

Comments

PAYMENT IN FULL IS REQUIRED BY THE TERMS SET FORTH ABOVE. WE RETAIN FULL INTEREST IN ITEMS PURCHASED UNTIL FULL PAYMENT HAS BEEN RECEIVED. WE CERTIFY THAT ALL GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF THE FAIR LABOR STANDARDS ACT AS WELL AS REGULATIONS AND ORDERS OF THE US DEPT OF LABOR.

WE ACCEPT MC, VISA, DISCOVER & AMERICAN EXPRESS AT PAR ON INVOICE DATE. ADD 6% SERVICE CHARGE 3 DAYS AFTER INVOICE DATE.

Sub Total	\$11,542.00
GOV 0% Tax	\$0.00
Freight	\$96.30
<b>Total Invoice</b>	<b>\$11,638.30</b>
Deposit	\$0.00
Balance	\$11,638.30

ch: 8 1/2 Mile Ref

Date 6.21.17

Chief Deputy AB

Engineer(s) VA

Manager(s) \_\_\_\_\_

Coordinator(s) BD

Finance Officer MM

PA 036326 93000

Staff 6-30-17  
Board 7-10-17 ge #1

# Detail Charges

For Service at: 23001 E 9 Mile Rd, St Clair Shores, MI 48082

Outage Contact Number: 1-313-235-1300

Invoice: 210000051505

Billing Period: 05/08/2017 through 06/07/2017

Days Billed: 31

## Metering Information

Meter Number	Start Date	Start Read	Stop Date	Stop Read	Read Difference	Units Multiplier	Usage Used	Type
6321448	05/08	201.4A	06/07	207.4A	6.0	6,400.0000	38,400.0	P - In-V
6321448	05/08	241.3A	06/07	247.7A	6.4	6,400.0000	40,960.0	P - In-W
6321449	05/08	0.0A	06/07	0.0A	0.0	- 6400.0000	0.0	P - Out-W
6321449	05/08	0.6A	06/07	0.6A	0.0	- 6400.0000	0.0	P - Out-V
6321451	05/08	0.4A	06/07	0.4A	0.0	6,400.0000	0.0	P - In-V
6321451	05/08	0.4A	06/07	0.4A	0.0	6,400.0000	0.0	P - In-W
<b>Total KVARH</b>							<b>38,400.00</b>	
<b>Total KWH</b>							<b>40,960.00</b>	

Invoice: 210000051505 Service Name: Chapaton Pumping Station  
 Item: 7004376662 Cycle: 05

General Service Municipal Pumping-Net Metering

## Billing Status Information

1	On-peak Billing Demand	927	KW	ESTABLISHED	05/25/2017	13:00
3	65% High OP Bill Dmd June-Oct prec 11 mths	1697	KW	ESTABLISHED	09/29/2016	11:30
8	Highest Single Billing Demand	927	KW	ESTABLISHED	05/25/2017	13:00
A	Current PV High Monthly Demand	927	KW	ESTABLISHED	05/25/2017	13:00
B	50% of the Contract Capacity for PV	0	KW			
C	Primary Voltage Maximum Demand	6738	KW	ESTABLISHED	08/16/2016	05:00
	Contract Capacity for Location	6738	KW	ESTABLISHED	08/16/2016	05:00
	Power Factor (ratio) for all voltages	72	PCT			
	Total Number of days in the Billing Period	31	DAYS			
	Avg Kilowatthours Used Per Day This Period	1321	KWH			
	Avg Kilowatthours Used Per Day A Year Ago	1003	KWH			
	kWh percentage change from a year ago	32	PCT			
	Metered outflow	0	KWH			
	Net Delivery Billed (inflow)	40960	KWH			
	Net Inflow (In - Out)	40960	KWH			

## Charges for 05/08/2017 through 06/07/2017

### Power Supply Charges:

Power Supply Energy:						
Power Supply Energy Charge	40,960	KWH	@ \$	0.0774300	Per Total KWH	3,171.53
Surcharges:						
Power Supply Cost Recovery Factor	40,960	KWH	@ \$	-0.0003000	Per Total KWH	- 12.29
Sub Total:						3,159.24

### Delivery Charges:

Service Charge						11.25
Distribution:						
Distribution Energy	40,960	KWH	@ \$	0.0392000	Per Total KWH	1,605.63
Surcharges:						
Nuclear Surcharge	40,960	KWH	@ \$	0.0007280	Per Total KWH	29.82
Energy Optimization Surcharge	2	MTR	@ \$	29.9900000		59.98
LIEAF Factor	2	MTR	@ \$	0.9600000		1.92
Sub Total:						1,708.60
Special Facilities Charge						2,500.00

### Invoice Subtotal

Michigan State Sales Tax On Taxable Portion

7,367.84

0.00

### Invoice Total

\$7,367.84





Fishbeck, Thompson, Carr & Huber, Inc.  
 engineers | scientists | architects | constructors  
 Federal I.D. No. 38-1841857 | Incorporated

**Payment Options**

Remit Wire/ACH payments to Acct: 100094457 ABA: 072413829  
 Remit checks to: 1515 Arboretum Drive, SE | Grand Rapids, Michigan 49546

**RECEIVED**  
 JUN 02 2017  
 BY: M4

**Attention:** Mr Vincent Astorino  
**Macomb County Public Works Commissioner**  
 21777 Dunham Rd  
 Clinton Township, MI 48036  
 United States

**Invoice:** 367250  
**Invoice Date:** 5/31/2017  
**Project:** 130620  
**Project Name:** Macomb Co PW/Chapaton SAW  
**Bill Term:** 1

**For Professional Services Rendered Through 5/19/2017**

		<u>Current</u> <u>Billings</u>
CIP - Chapaton SAW - CIP and Final Report		6,244.00
<i>Rate Labor</i>	6,142.50	
<i>Unit Rate Expense</i>	101.50	
DP - Chapaton SAW - Metering & Discharge Protocol		999.50
<i>Rate Labor</i>	999.50	
DWG - Chapaton SAW - 3D Model & Ref Dwgs		911.08
<i>Rate Labor</i>	902.50	
<i>Unit Rate Expense</i>	8.58	
GI - Chapaton SAW - Green Infrastructure		156.00
<i>Rate Labor</i>	156.00	
PM - Chapaton SAW - Overall Mgmt		746.50
<i>Rate Labor</i>	746.50	
SP - Chapaton SAW - Prevent Maint		929.50
<i>Rate Labor</i>	929.50	
		<u>9,986.58</u>
	<b>Current Billings</b>	<u>9,986.58</u>
	<b>Amount Due This Bill</b>	9,986.58

SAW 1173-01

Chg: 8 1/2 Miles

Date 6.5.17  
 Chief Deputy BD  
 Engineer(s) VA  
 Manager(s) \_\_\_\_\_  
 Coordinator(s) BD  
 Finance Officer blm

**PAO 361161 80300**

Staff 6-20-17  
 Board 7-10-17





<b>Invoice number:</b> 949608834 <b>Invoice Date:</b> 05/01/2017 <b>Customer PO No:</b> <b>KONE Order No:</b> N40092539 <b>Billing Type:</b> YMIO <b>Date work performed:</b> 07/31/2017	<b>Area Office:</b> DETROIT - 190 11864 Belden Ct Livonia MI 48150-1459 Ph: 734-513-6944 Fax: 734-513-6948	<b>KONE Inc., Federal</b> 36 2357423
<b>Bill To:</b> MACOMB COUNTY PUBLIC WORKS 23001 9 MILE RD SAINT CLAIR SHORES MI 48080 USA	<b>Location/Project:</b> VARIOUS LOCATIONS	
<b>Payment Terms:</b> Net 10		

This invoice is for maintenance coverage per your agreement with KONE Inc.  
 Billing period is 05/01/2017 to 07/31/2017.

**Contract# N40092539 CHAPATON RETENTION BASIN**  
 CHAPATON RETENTION BASIN  
 23001 9 MILE RD  
 SAINT CLAIR SHORES MI 48080  
 USA

**Contract# N40092539 VIOLET PUMP STATION**  
 VIOLET PUMP STATION  
 30801 GREATER MACK AVE  
 SAINT CLAIR SHORES MI 48082  
 USA

*Chg: 8 1/2 Mile @ 613.01  
 SEMC Woods @ 153.25*

Date	6.13.17	
Chief Deputy	AS	
Engineer(s)	VA	
Manager(s)		
Coordinator(s)	SD	
Finance Officer	hjm	\$ 766.26

Subtotal

Total Invoice Amount

**PAID 36230 77500**

*Staff 6-20-17  
 Board 7-10-17*

Invoices not paid within 30 days are subject to a service charge of 1.5% per month, or the maximum permitted by law

Please return this portion with your payment

**PAYMENT ADVICE**

We also accept VISA/Mastercard or EFT payments



<b>Payer:</b> MACOMB COUNTY PUBLIC WORKS 23001 9 MILE RD SAINT CLAIR SHORES MI 48080 USA	<b>Invoice number:</b> 949608834 <b>Invoice Date:</b> 05/01/2017 <b>Customer Number:</b> N273080 <b>KONE Order No:</b> N40092539 <b>Area Office No:</b> U190 <b>Billing Type:</b> YMIO
<b>Remit to:</b> KONE Inc P O BOX 3491 CAROL STREAM, IL 60132-3491	<i>Use this address for payments only. Direct calls and area correspondence to our area office above.</i> <b>Amount paid if different than invoice amount:</b> \$ <b>INVOICE AMOUNT:</b> \$ 766.26



**Martin Control  
Services**

**RECEIVED**  
JUN 08 2017  
BY: ML

Invoice No. 10067

Date: 05/30/2017

23905 Freeway Park Dr.  
Farmington Hills, MI 48335  
248-476-7660

**Billed To:** Macomb County Public Works  
21777 Dunham Road  
Clinton Twp MI 48036

**Project:** 160929 Chapaton Monitoring

**Contact:** Vince Astorino

**P.O.#** Saw #1173-01

**Due Date:** 06/30/2017

Description	Qty	Rate	Amount
Chapaton Basin Monitoring			
Monitoring Month #8 May 2017	4.000	650.00	2,600.00
Monitor Removal	6.000	450.00	2,700.00

Chg: 8 1/2 Mile - SAW 1173-01

Date	<u>6.8.17</u>
Chief Deputy	<u>AB</u>
Engineer(s)	<u>VA</u>
Manager(s)	_____
Coordinator(s)	<u>3D</u>
Finance Officer	<u>bjm</u>

PA036208 70100

Non-Taxable Amount:	5,300.00
Taxable Amount:	0.00
Sales Tax:	0.00
<b>Amount Due</b>	<b>5,300.00</b>

Thank you for your prompt payment!

Staff 6-20-17  
Board 7-10-17



12835 Stephens Road · Warren · Michigan · 48099 · (586) 920-2620 · Fax (586) 510-4433

RECEIVED  
JUN 05 2017  
MH

June 1, 2017

Office of Macomb County Public Works Commission  
21777 Dunham Road  
Clinton Township, MI 48111

Attn: Mr. Vincent Astorino  
Acting Chief Engineer - Wastewater Services

RE: Chapaton CSO Control Facility Operations Management

INVOICE #1615-09

*pay*

Attached please find our Invoice #1615-09 in the amount of \$9,555.58 (Nine Thousand Five Hundred Fifty-five Dollars and fifty-eight cents only) for Professional Services rendered in connection with the above referenced project for the period May 1, thru May 28, 2017.

Should you need anymore information, please call me at (313) 961-4560.

Very truly yours,

METCO SERVICES, INC.

Rosana Santos  
Vice President-Administration

*Chg: 8 1/2 Mile Ref*

Date	<u>6.5.17</u>
Chief Deputy	<u>AB</u>
Engineer (s)	<u>UK</u>
Manager (s)	<u></u>
Coordinator (s)	<u>JD</u>
Finance Officer	<u>FW</u>

PA036179 80300

*Staff 6-20-17  
Board 7-10-17*



# METCO SERVICES, INC.

CONSULTING ENGINEERS

12835 Stephens - Warren - Michigan - 48089 - (586) 920-2620 - Fax (586) 510-4433

June 22, 2017

Macomb County Public Works  
21777 Dunham Road  
Clinton Township, MI 48036

RECEIVED  
JUN 26 2017  
BY: MH

Attn: Mr. Vincent Astorino  
Engineer II-Wastewater Services

RE: 8-1/2 Mile Drain SAW Grant No. 1173-01  
Asset Management Program Implementation  
METCO Project No. 1411A

## INVOICE #1411-7A

Attached is the Invoice for the Asset Management Program Implementation in the amount of \$17,635.00 (Seventeen Thousand Six Hundred and Thirtyfive Dollars). This invoice includes services provided by METCO for the period April 1, 2017 thru May 31, 2017. *Pay*

If you have any questions regarding our invoice, please feel free to contact me at (313) 961-4560.

Sincerely,

METCO SERVICES, INC.



Lakshman K. Thallapally, PE  
Project Manager

*Chg: 8 1/2 Mile Ref*

Date	<u>6.26.17</u>
Chief Deputy	<u>JB</u>
Engineer(s)	<u>JA</u>
Manager(s)	<u></u>
Coordinator(s)	<u>JB</u>
Finance Officer	<u>BHW</u>

*PA 036363 80300*

*Staff 7.5.17*  
*Board 7.11.17*





Metropolitan Air Compressor Co., Inc.  
15990 Sturgeon  
Roseville, MI 48066  
(586) 774-4455

Chg: 8 1/2 Mile Ref

INVOICE NO.  
175722

DATE  
6/7/2017

REFERENCE  
Work Order

PO NUMBER

Date 6.21.17  
Chief Deputy AB  
Engineer(s) VA  
Manager(s) \_\_\_\_\_  
Coordinator(s) JD  
Finance Officer ARM



Description: Work Order 122074 NO START

Bill to: MACOMB COUNTY PUBLIC WORKS  
23001 NINE MILE ROAD  
ST. CLAIR SHORES, MI 48080

Service at: MACOMB COUNTY PUBLIC WORKS  
23001 NINE MILE ROAD  
ST. CLAIR SHORES, MI 48080

Customer ID: 7114

PAID 36334 93000

122074

Equipment Serviced: Ingersoll Rand - m/n: 41X5, s/n: 259699

Item	Description	Quantity	Unit Price	Amount
<b>Labor</b>				
	Inspection 5-11-17 Arrived to find unit with belts off and motor loose . motor turns over , pump is locked up , may be from low oil . unit is in a location that it will have to be disassembled to removed from base .and disassembled to reinstall on tank after rebuild . customer wants a quote on rebuild of pump if we can do it at all (500psi unit) . customer will remove unit himself, and reinstall . unit is down .	2.50	\$117.50	\$293.75
	Repair Piston Compressor Disassemble pump for evaluation ,	2.00	\$117.50	\$235.00
	Repair Piston Compressor Disassemble pump , replace HP disc. valve hold down and bolt , 2 rods , crank bushing , main bearings , complete rebuild kit . Motor mags O K failure crank bushing to rod !	2.50	\$117.50	\$293.75
<b>Labor Subtotal</b>				<b>\$822.50</b>
<b>Miscellaneous</b>				
	Travel Mileage-Regular	14.00	\$1.00	\$14.00
	Shop Supplies/OSHA - Service	1.00	\$20.24	\$20.24
<b>Miscellaneous Subtotal</b>				<b>\$34.24</b>

\*\*\*We moved our Roseville Location!\*\*\*\*

Please note address change for all invoices and payments:  
15990 Sturgeon  
Roseville, MI 48066

Subtotal:	\$856.74
Sales Tax:	\$0.00
Payments:	\$0.00
<b>Total Due:</b>	<b>\$856.74</b>

To assist us improve our services, please complete this online survey:

<http://www.metroaircomp.com/surveys.html>

Staff 6-30-17  
Board 7-10-17

# PVS Nolwood Chemicals, Inc.

10900 Harper Avenue, Detroit, MI 48213

Telephone: 313-925-0300 Fax: 313-571-2225

**RECEIVED**  
 JUN 27 2017  
 BY: MIT

**INVOICE**  
 No. 554152

**Sold To:** Macomb County Public Works  
 57769 P.O. Box 806  
 Mt. Clemens, MI 48046-0806

**Ship To:** Chapaton Retention Basin  
 57770 23001 Nine Mile Rd.  
 St. Clair Shores, MI 48089

<b>Ship ID:</b> 582881	<b>Load ID:</b> 322801	<b>Payment Terms:</b> Net 30 Days
<b>Sales Order:</b> 545111		<b>Freight Type:</b> DIRW-del
<b>Customer PO:</b> brent		<b>Ship Via:</b> CommCarBk
<b>Invoice / Ship Date:</b> 5/17/2017		<b>Originating Warehouse:</b> DIRW

SO Line	Quantity Ordered	Ord UOM	Qty to Follow	Product Description	Quantity Shipped	Quantity Invoiced	Inv UOM	Unit Price	Total
1	4,800.00	GA	3019.2	PVS N Sodium Hypochlorite 12.5% (Bleach) Bulk	45,450.84	4,501.00000	GA	1.02000	4,591.02

Reference 234333D

Would you like to make ACH payments? Email us at [ACH@pvschemicals.com](mailto:ACH@pvschemicals.com) with your company name and Sold To # [57769] to setup ACH payments.

Please Pay This Amount  
**\$4,591.02**

Please Remit To: **PVS Nolwood Chemicals, Inc.**  
**25210 Network Place**  
**Chicago, IL 60673-1503**

Chg: 8 1/2 Mile Ref

Date	6.13.17
Chief Deputy	AB
Engineer(s)	VA
Manager(s)	
Coordinator(s)	30
Order	BAM

PA036256 74200

Staff 6-20-17

Board 7-10-17

**CANDICE S. MILLER**  
 MACOMB COUNTY PUBLIC WORKS COMMISSIONER  
 21777 Dunham Road  
 Clinton Township, Michigan 48036  
 Phone: (586) 469-5325

Invoice No. 7433-2017

**INVOICE**

**Customer**  
 Name 8.5 Mile  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

Date 6/15/2017

Description		TOTAL
Transfer money from 8.5 Mile Relief to SEMCWWDS Martin Controls Invoice Application 1 of Job 161025 should have been billed to 8.5 Mile		\$4,200.00
<b>RECEIVABLE ENTRY</b>		
#3018 SEMCWWDS	DEBIT	CREDIT
11040 Accts Receivable	\$4,200.00	
70100 Contractor Payment		\$4,200.00
<b>PAYABLE ENTRY</b>		
#0017 8 1/2 Mile Relief		
70100 Contractor Payment	\$4,200.00	
21000 Accts Payable		\$4,200.00
		<b>TOTAL</b>
		<b>\$4,200.00</b>

Date 6.26.17  
 Chief Deputy \_\_\_\_\_  
 Engineer(s) UA  
 Manager(s) \_\_\_\_\_  
 Coordinator BD  
 Finance Officer BHM  
 Due Upon Receipt

For Office Use Only:

Date Received \_\_\_\_\_  
 Amount Received \_\_\_\_\_  
 Check No. \_\_\_\_\_  
 Voucher No./Date \_\_\_\_\_

PA036349  
 RV013739  
 GE079396

BY: Bruce Manning  
 Bruce Manning, Interim Financial Manager

Staff 6-30-17  
 Board 7-10-17



**Income Statement**  
**8.5 Mile Relief**  
**As of June 30, 2017**

	9-30-2016 Total Fund	10-1-16 to 6-30-17 O&M*
<b>Revenues</b>		2,376,943
<b>Expenditures</b>		1,144,322
<b>Equity**</b>	2,884,401	1,232,621

**NOTES**

Projected Reserves as of Sept 30, 2017	600,000
Projected required SRF repair & replacement reserve balance 9/30/17	1,296,075
Total	1,896,075

\* Includes following Projects:

Sewer Rehab(SRF 5579-01)	Revenue	44,087
	Expenditures	37,902
	Net	6,185
	Remaining balance =	29,825

SAW Grant(1173-01)	Revenue	271,121
	Expenditures	336,623
	Net	(65,502)
	Remaining balance =	285,711

Major projects not yet completed in 2017

RTB Blower design  
 2 quarters of personnel from county  
 9 Mile flow meter  
 1st collection of 2 for screen collection improvements  
 Instrumentation all buildings  
 Switch gear maintenance

\*\* Broken out as follows:

Engineering carryover balance at 9/30/2016	190,000
Repair and Maintenance carryover at 9/30/2016	105,000
Equipment carryover balance at 9/30/2016	45,800
Required SRF repair & replacement reserve balance 9/30/16	1,036,860
Emergency Reserve	600,000
Due from SEMCWWDS included in revenue but not collected	550,000