



**PROPOSED AGENDA
REGULAR MEETING OF THE PORTLAND CITY COUNCIL**

7:00 P.M. Monday, July 6, 2020

City Council Chambers and

Via Virtual Zoom Meeting ID# 865 5269 0118

<u>Estimated Time</u>		<u>Desired Outcome</u>
7:00 PM	I. <u>Call to Order</u>	Decision
7:01 PM	II. <u>Pledge of Allegiance</u>	
7:02 PM	III. <u>Acceptance of Agenda</u>	
7:03 PM	IV. <u>Public Comment</u> (5-minute time limit per speaker)	
7:10 PM	V. <u>City Manager Report</u>	
7:25 PM 7:30 PM	VI. <u>Presentations</u> A. Proclamation Honoring Philip J. Gensterblum B. DDA Director Conner Wellman – Downtown Report	
	VII. <u>Public Hearing(s)</u> - None	
	VIII. <u>Old Business</u> - None	
	IX. <u>New Business</u>	
7:35 PM	A. First Reading of Ordinance 67B to Amend Section 6-2 of the Code of Ordinances of the City of Portland	Decision
7:38 PM	B. Proposed Resolution 20-47 Approving the MPPA Risk Management and Hedge Policy as Recommended by the Board of Light and Power	
7:40 PM	C. Proposed Resolution 20-48 Confirming the Mayor's Appointments to Boards and Commissions	
7:42 PM	X. <u>Consent Agenda</u>	Decision
	A. Minutes & Synopsis from the Regular City Council Meeting on June 15, 2020 Payment of Invoices in the Amount of \$109,187.08 and Payroll in the Amount of \$91,110.91 for a Total of \$200,297.99	
	B. Purchase Orders over \$5,000.00	
	1. SLC Meter in the Amount of \$9,600.00 for Beacon Meter Reading Software	
	2. Off and Running Painting in the Amount of \$20,000.00 for Down Payment by the DDA for Boardwalk Railing Painting	
	XI. <u>Communications</u>	
	A. DDA Minutes from May 26, 2020	
	B. Utility Billing Reports for May 2020	
	C. MPPA Quarterly Power Supply Plan for Portland	
	D. Wastewater Treatment Plant Report for February 2020	

<u>Estimated Time</u>
7:45 PM
7:50 PM
7:55 PM
8:00 PM

- E. Wastewater Treatment Plant Report for March 2020
- F. Ionia County Board of Commissioners Agenda for June 16, 2020
- G. Ionia County Board of Commissioners Agenda for June 23, 2020
- H. Ionia County Board of Commissioners Agenda for June 30, 2020
- I. MPSC Notice of Hearing for Consumers Energy

XII. Other Business - None

XIII. City Manager Comments

XIV. Council Comments

XV. Adjournment

<u>Desired Outcome</u>
Decision

**CITY OF PORTLAND
Ionia County, Michigan**

Council Member _____, supported Council Member _____, moved the adoption of the following ordinance:

ORDINANCE NO. 67B

**AN ORDINANCE TO AMEND SECTION 6-2 OF THE CODE OF
ORDINANCES OF THE CITY OF PORTLAND**

THE CITY OF PORTLAND ORDAINS:

Section 1. Section 6-2 of the Code of Ordinances is amended to read as follows:

Section 6-2. Enforcement

It shall be the duty of the county animal control officer or a police officer of the Portland Police Department to enforce the provisions of this chapter and in the furtherance of such duties, he or she may make complaints to any court of competent jurisdiction in regard to any violation of this chapter.

Section 2. Publication and Effective Date. The City Clerk shall cause this Ordinance to be published and recorded as provided in the City Charter and it shall take effect on the date of publication, but not less than ten (10) days after its adoption by the City Council.

Yeas:

Nays:

Abstain:

Absent:

ORDINANCE DECLARED ADOPTED.

James E. Barnes, Mayor

Monique I. Miller, City Clerk

Introduced:

Adopted:

Published:

Effective:

CERTIFICATION

I certify that this is a true and complete copy of the ordinance adopted at a special meeting of the City Council of the City of Portland on _____, 2020.

Dated:

Monique I. Miller, Clerk

PORTLAND CITY COUNCIL
Ionia County, Michigan

Council Member _____, supported by Council Member _____, made a motion to adopt the following resolution:

RESOLUTION NO. 20-47

**A RESOLUTION APPROVING THE MPPA RISK MANAGEMENT
AND HEDGE POLICY AS RECOMMENDED BY THE BOARD OF
LIGHT AND POWER**

WHEREAS, the Michigan Public Power Agency (MPPA) provides a means for Michigan municipalities which are members of MPPA to secure electric power and energy for their present and future needs; and

WHEREAS, MPPA exists to create opportunities for Michigan's public power utilities to participate in energy projects or services jointly that deliver reliable, cost effective and environmentally responsible power supply and related services; and

WHEREAS, at its regularly scheduled meeting on June 30, 2020, the Board of Light and Power voted to recommend that City Council approve the Risk Management and Hedge Policy, a copy of the policy and memo from the Electric Superintendent is attached as Exhibit A.

NOW THEREFORE BE IT RESOLVED AS FOLLOWS:

1. The City Council approves the Board of Light and Power's recommendation to approve the Risk Management and Hedge Policy, a copy of the policy and memo from the Electric Superintendent is attached as Exhibit A.
2. All resolutions and parts of resolutions are, to the extent of any conflict with this resolution, rescinded.

Ayes:

Nays:

Absent:

Abstain:

RESOLUTION DECLARED ADOPTED.

Dated: July 6, 2020

Monique I. Miller, City Clerk

Attachment 1 – Member Power Supply Portfolio Risk Management Election Form

1. Energy Hedge Plan Election (Check one)

- Short Term Plan - 36 Month Horizon
- Moderate Plan – 48 Month Horizon
- Stability Plan – 60 Month Horizon
- Self-Directed Plan

Please accept or decline each of the following services described herein

2. RTO Capacity Services (required if using MPPA for market participation with RTO)

- Accept
- Decline

3. Peak Load Resource Planning and Hedging Services

- Accept
- Decline

4. Congestion Management

- Accept
- Decline

5. Renewable Energy Compliance Management Services

- Accept
- Decline

6. Intra-Month Optimization Services (required if using MPPA for market participation with RTO)

- Accept
- Decline

Signature of Member Authorized Representative

Date

Printed Name of Authorized Representative

Name of Member

By signing this form, the Authorized Representative agrees to have MPPA staff manage Member City's market position as authorized by above election. All transactions will be completed on Member's behalf as outlined in the Energy Risk Policy.

Effective Date: 5/13/2020

City of Portland
Board of Light & Power
723 E. Gd. River Ave.
Portland, Mi 48875

July 1, 2020

Last night at the Board of Light meeting the Board passed a recommendation to the City Council to have the Member Authorized Representative execute an up to date Risk Management Policy. This includes continuing services:

- 1-Stability Plan
- 2-RTO Capacity Services
- 3-Peak Load Resource Planning
- 4-Congestion Management
- 5-Renewable Energy Compliance Management Services
- 6-Intra-Month Optimization Services

In addition it allows the Member Authorized Representative to independently execute Power Supply Purchases up to one (1) year. Over one (1) year needs Board and Council Approval, along with MPPA Board Member Approval.

Respectfully submitted

Jon M. Hyland



City of Portland, Board of Light & Power

PORTLAND CITY COUNCIL
Ionia County, Michigan

Council Member _____, supported by Council Member _____, made a motion to adopt the following resolution:

RESOLUTION NO. 20-48

**A RESOLUTION CONFIRMING THE MAYOR’S APPOINTMENTS TO
CITY BOARDS AND COMMISSIONS**

WHEREAS, City Council has established guidelines for appointments to City Boards and Commissions pursuant to Council Policy 96-1; and

WHEREAS, the Mayor has reviewed the applications for the various City Boards and Commissions and, in accordance with Council Policy 96-1, requests that the Council confirm the following appointments:

Planning Commission

-William Roeser to a term expiring June 30, 2023

Zoning Board of Appeals

-Joe Fedewa to a term expiring June 30, 2023

Downtown Development Authority

-Leo Madarang to a term expiring June 30, 2024

Portland Area Municipal Authority

- Doug Logel to a term expiring June 30, 2023

Parks & Recreation Board

-Chad Williams to a term expiring June 30, 2024

NOW THEREFORE BE IT RESOLVED AS FOLLOWS:

1. The Portland City Council confirms the Mayor’s appointments as set forth above.
2. All resolutions and parts of resolutions are, to the extent of any conflict with this resolution, rescinded.

Ayes:

Nays:

Absent:

Abstain:

RESOLUTION DECLARED ADOPTED.

Dated: July 6, 2020

Monique I. Miller, City Clerk

City of Portland

Portland, Michigan

Minutes of the City Council Meeting

Held on Monday, June 15, 2020

City Council Chambers and

Via Zoom Meeting ID# 852 3922 9047

Present: Mayor Barnes, Mayor Pro-Tem VanSlambrouck, Council Member Fitzsimmons, Johnston and Sheehan; City Manager Gorman; City Clerk Miller; Police Chief Thomas; DDA Director ConnerWellman

Guests: Kathy Parsons

The meeting was called to order at 7:00 P.M. by Mayor Barnes with the Pledge of Allegiance.

Motion by VanSlambrouck, supported by Fitzsimmons, to approve the Proposed Agenda as presented.

Yeas: VanSlambrouck, Fitzsimmons, Johnston, Sheehan, Barnes

Nays: None

Adopted

Under Public Comment, Mayor Barnes noted the City of Portland is emerging from the COVID-19 Pandemic; and that Portland City Council meetings are intended to be attended in person. If Zoom is used in the future it will be for viewing purposes only.

Under City Manager Report, City Manager Gorman further noted the City of Portland does not have the equipment to dedicate to Zoom meetings for all meetings going forward.

The City Hall lobby was opened last week. The Kent St. entrance has not been opened yet in order to limit access to the building.

The City continues to use the Work Share Program from some City employees to save money on wages in anticipation of revenue shortfalls due to the COVID-19 pandemic. The program will likely be used through July 25, 2020.

City Manager Gorman noted that all of the City parks are fully opened to the public. He encouraged residents to appropriately social distance.

The public notice accepting bids for the surplus property at Cherry Hill Estates will be published within the next week or two.

City Manager Gorman provided development updates on the many projects happening in Portland this Summer.

The Portland Arts Council was not planning to host Thursdays on the Grand this summer so DDA Director ConnerWellman has planned five dates this summer called the Sounds of Summer which will include a variety of music at the Band Shell. The first event will be held this Thursday, June 18, 2020.

City Manager Gorman announced that after 30 years of service to the City of Portland, Ambulance Director Phil Gensterblum will be retiring at the end of July. The City will be evaluating how to replace his position and how code enforcement will be handled.

Under Presentations, DDA Director ConnerWellman provided her report on downtown activities. Director ConnerWellman provided updates on business and property in the DDA District and other projects, recent activities, and community events. Beerfest on the Bridge 2020 has been cancelled due to the COVID-19 Pandemic. She further provided more information on the Sounds of Summer concert series.

Under New Business, the Council considered Resolution 20-42 to approve a permit for a firework display at Bogue Flats on July 3, 2020. City Manager Gorman stated that earlier this year (prior to COVID-19) the Chamber of Commerce disbanded but planned to still hold the fireworks but not the parade in hopes that another organization would take over both events going forward. In light of the COVID-19 Pandemic City Manager Gorman spoke with the City's legal counsel to get their opinion on holding the fireworks. Because of the large venue and many vantage points throughout the City safe social distancing is possible.

Motion by Johnston, supported by Sheehan, to approve Resolution 20-42 approving, authorizing, and directing the Mayor to sign a permit for a firework display at Bogue Flats Recreation Area.

Yeas: Johnston, Sheehan, VanSlambrouck, Fitzsimmons, Barnes

Nays: None

Adopted

The Council considered Resolution 20-43 to approve financing of a 2017 Tymco 600 street sweeper for the Department of Public Works. The City will take possession of the new street sweeper around July 6, 2020.

Motion by VanSlambrouck, supported by Fitzsimmons, so approve Resolution 20-43 approving the financing of a 2017 Tymco 600 street sweeper for the Department of Public Works (DPW).

Yeas: VanSlambrouck, Fitzsimmons, Johnston, Sheehan, Barnes

Nays: None

Adopted

The Council considered Resolution 20-44 to revise Council Policy 76-7 to clarify the shut off process and update payment arrangement procedures.

Motion by Fitzsimmons, supported by Johnston, to approve Resolution 20-44 to revise Council Policy 76-7 concerning utility billing procedures.

Yeas: Fitzsimmons, Johnston, VanSlambrouck, Sheehan, Barnes

Nays: None

Adopted

The Council considered Resolution 20-45 to amend the Budget for Fiscal Year 2019-2020. Finance Director Tolan has reviewed current fund balances and expenditures for Fiscal Year 2019-2020 and recommends the proposed budget amendments be approved.

Motion by VanSlambrouck, supported by Sheehan, to approve Resolution 20-45 to amend the Budget for Fiscal Year 2019-2020.

Yeas: VanSlambrouck, Sheehan, Fitzsimmons, Johnston, Barnes

Nays: None

Adopted

The Council considered Resolution 20-46 to confirm various appointments to City Boards and Commissions.

Motion by Johnston, supported by VanSlambrouck, to approve Resolution 20-46 confirming the Mayor's appointments to City Boards and Commissions.

Yeas: Johnston, VanSlambrouck, Fitzsimmons, Sheehan, Barnes

Nays: None

Motion by Fitzsimmons, supported by Johnston, to approve the Consent Agenda which includes the Minutes and Synopsis from the Regular City Council Meeting on June 1, 2020, payment of invoices in the amount of \$196,347.94 and payroll in the amount of \$114,294.79 for a total of \$310,642.73. There were no purchase orders over \$5,000.00.

Yeas: Johnston, Fitzsimmons, VanSlambrouck, Sheehan, Barnes

Nays: None

Adopted

Under City Manager Comments, City Manager Gorman recognized the recent passing of Joe Shaltry, a member of the Portland Fire Department, after a long battle with cancer. He was a great man with a great family. City Manager stated that he is sending his thoughts and prayers.

City Manager Gorman shared a photo of City crews hanging the "Congratulations Graduates" banner the railroad pedestrian bridge last week, which proved to be an engineering challenge. The banner was a great tribute and community effort to recognize the 2020 graduates of both Portland High School and Portland St. Patrick that have missed so much due to the COVID-19 Pandemic.

Under Council Comments, Mayor Pro-Tem VanSlambrouck noted that the VFW and American Legion will be opening soon.

Mayor Barnes notes that yesterday was Flag Day and was a beautiful day to recognize the American flag.

Motion by Fitzsimmons, supported by VanSlambrouck, to adjourn the regular meeting.

Yeas: Fitzsimmons, VanSlambrouck, Johnston, Sheehan, Barnes

Nays: None

Adopted

Meeting adjourned at 7:54 P.M.

Respectfully submitted,

James E. Barnes, Mayor

Monique I. Miller, City Clerk

City of Portland
Synopsis of the Minutes of the June 15, 2020 City Council Meeting
In Council Chambers and
Via Zoom Meeting ID# 852 3922 9047

The City Council meeting was called to order by Mayor Barnes at 7:00 P.M.

Present – Mayor Barnes, Mayor Pro-Tem VanSlambrouck, Council Member Fitzsimmons, Johnston and Sheehan; City Manager Gorman; City Clerk Miller; Police Chief Thomas; DDA Director ConnerWellman

Presentation - DDA Director ConnerWellman provided her report on downtown activities.

Approval of Resolution 20-42 approving, authorizing, and directing the Mayor to sign a permit for a firework display at Bogue Flats Recreation Area.

All in favor. Adopted.

Approval of Resolution 20-43 approving the financing of a 2017 Tymco 600 street sweeper for the Department of Public Works (DPW).

All in favor. Adopted.

Approval of Resolution 20-44 to revise Council Policy 76-7 concerning utility billing procedures.

All in favor. Adopted.

Approval of Resolution 20-45 to amend the Budget for Fiscal Year 2019-2020.

All in favor. Adopted.

Approval of Resolution 20-46 confirming the Mayor's appointments to City Boards and Commissions.

All in favor. Adopted.

Approval of the Consent Agenda.

All in favor. Adopted.

Adjournment at 7:54 P.M.

All in favor. Adopted.

A copy of the approved Minutes is available upon request at City Hall, 259 Kent Street.

Monique I. Miller, City Clerk

VENDOR NAME	VENDOR	DESCRIPTION	AMOUNT
BADER & SONS CO.	00031	MOWER BLADES - ELECTRIC	77.94
FAMILY FARM & HOME	01972	TRAPS, REBAR - ELECTRIC	73.08
FAMILY FARM & HOME	01972	MISC SUPPLIES - ELECTRIC	101.87
STALKER RADAR	02375	RADAR UNIT - POLICE	2,495.00
INDEPENDENT BANK	00197	JULY 2020 BOND PAYMENT - ELECTRIC	9,092.00
NICK LEFKE	00735	ELECTED OFFICIAL - ELECTRIC	75.00
ROBERT BALDYGA	01636	ELECTED OFFICIAL - ELECTRIC	75.00
TED ALBERTA	02490	ELECTED OFFICIAL - ELECTRIC	75.00
MUNICODE	02411	ADMIN SUPPORT FEE CODE OF ORDINANCES - CODE	250.00
CONSUMERS ENERGY	00095	GAS SERVICE - ELECTRIC	224.99
FAMILY FARM & HOME	01972	WEED SPRAY - MAJ STS	79.98
CONSUMERS ENERGY	00095	GAS SERVICE - PARKS	24.99
USA TODAY NETWORK	02501	LEGAL NOTICES - GEN	424.00
INSOURCE SOLUTIONS GROUP INC.	01813	INCOME TAX EFILE RETURNS MAY - INCOME TAX	90.00
RIVERSIDE INTEGRATED SYSTEMS	01441	MONITORING FEE - ELECTRIC	300.00
ALTEC INDUSTRIES, INC.	00016	REPAIR FOR TRUCK - ELECTRIC	678.39
ALTEC INDUSTRIES, INC.	00016	ROPE FOR DIGGER TRUCK - ELECTRIC	1,148.50
NYE UNIFORM CO.	00338	UNIFORM PANTS, GOGGINS - POLICE	79.99
CORE TECHNOLOGY CORPORATION	02419	ANNUAL MULTI JURISDICTIONAL LICENSE - POLICE	45.00
DAN SCHNEIDER	MISC	ENERGY OPTZ PROGRAM - ELECTRIC	49.26
BADER & SONS CO.	00031	HAND HELD LEAF BLOWER - CEM	191.96
UNITED STATES TREASURY	02524	PCORI/COMPARATIVE EFFECTIVENESS FEE - GEN	49.00
S&K PRINTING	00400	PROPERTY TAX BILLS - GEN	335.00
MODEL FIRST AID SAFETY/TRAINING	00313	SAFETY SUPPLY REFILL - CEM, PARKS	54.95
BSN SPORTS	00911	BASKET BALL NETS - PARKS	23.91
MODEL FIRST AID SAFETY/TRAINING	00313	FIRST AID SUPPLIES - ELECTRIC	62.20
MENARDS	00260	LUMBER FOR HYDRO DAM - ELECTRIC	3,237.48
RESCO	00392	50 ROLLS OF TAPE - ELECTRIC	717.50
PLEUNE SERVICE COMPANY INC.	00741	QRTLY LABOR/PARTS - ELECTRIC	780.00
COOK BROS EXCAVATING	00101	GRADE COMPOST AREA - LOCAL STS	700.00
SHERWIN-WILLIAMS	01746	10 GALLONS TRAFFIC PAINT - MAJ STS	230.10

VENDOR NAME	VENDOR	DESCRIPTION	AMOUNT
KEUSCH SUPER SERVICE	00228	INSTALL USED, VALVE & SUPPLIES - MTR POOL	107.83
BADER & SONS CO.	00031	BACKPACK LEAF BLOWER - CEM, PARKS	519.96
MENARDS	00260	PRESSURE WASHER - CEM, PARKS	319.99
MUNICIPAL SUPPLY CO.	00324	TRIPOD, FULL BODY HARNESS - WW	2,633.20
MUNICIPAL SUPPLY CO.	00324	PIPE, FERNCO COUPLING - WW	107.58
GLOCK PROFESSIONAL, INC.	MISC	GLOCK ARMORER RECERTIFICATION - POLICE	250.00
FLEIS & VANDENBRINK	00153	GENERAL ENGINEERING SVC - GEN	442.50
FLEIS & VANDENBRINK	00153	SAFE RTS TO SCHOOL - MAJ, LOC STS	8,059.39
FLEIS & VANDENBRINK	00153	BRIDGE ST CONSTRUCTION ENG - MAJ STS	7,050.68
CINTAS	00083	UNIFORM CLEANING, BLDG SUPPLIES - VAR DEPTS	992.16
RYAN HONSOWITZ	00191	CLOTHING ALLOWANCE - CEM	80.06
CULLIGAN	02130	WATER CITY HALL - GEN	7.50
RESCO	00392	ROLLS OF CABLE - ELECTRIC	185.00
BAKER TILLY MUNICIPAL ADVISORS, LL02629		WATER/WASTE WATER STUDY - WTR, WW	17,500.00
CONSUMERS ENERGY	00095	GAS SERVICE - CITY HALL	230.19
CONSUMERS ENERGY	00095	GAS SERVICE - ELECTRIC	215.88
CONSUMERS ENERGY	00095	GAS SERVICE - WATER	22.79
CONSUMERS ENERGY	00095	GAS PURCHASE - WASTE WATER	123.81
CONSUMERS ENERGY	00095	GAS SERVICE - WASTE WATER	15.22
CONSUMERS ENERGY	00095	GAS SERVICE - PARKS	17.05
CONSUMERS ENERGY	00095	GAS SERVICE - MTR POOL	26.45
CONSUMERS ENERGY	00095	GAS SERVICE - WATER	16.45
JOHN DEERE FINANCIAL	01818	VAR SUPPLIES - VAR DEPTS	388.68
COOK BROS EXCAVATING	00101	REPAIR WORK PWR PARK, BRIDGE ST - WASTE WATER	1,005.00
MODEL FIRST AID SAFETY/TRAINING	00313	FIRST AID SUPPLIES - WST WTR	142.97
CORA KING	MISC	ENERGY OPTZ PROGRAM - ELECTRIC	150.00
PETERSEN OIL & PROPANE	02534	DIESEL FUEL - MTR POOL	67.74
MODEL FIRST AID SAFETY/TRAINING	00313	FIRST AID SUPPLIES - MTR POOL	88.40
FLAGS UNLIMITED LTD	00988	6X10 FLAG - CITY HALL	100.95
MARK WOODMAN PLUMBING & HEATING	01816	BACKFLOW DEVICE TESTING - ELEC, WTR, CITY HALL	1,070.00
MRWA	01935	ANNUAL MEMBERSHIP DUES - WATER	735.00

VENDOR NAME	VENDOR	DESCRIPTION	AMOUNT
PAMELA LEE MINKLEY	02618	MANAGEMENT RED MILL - COMM PROMO	1,000.00
AMERICAN RENTALS, INC.	00017	PORTABLE TOILET RENTALS - PARKS	330.00
ROY SCHNEIDER	MISC	LEIK PROPERTY WORK - COMM PROMO	240.00
MICHIGAN PAVEMENT MARKINGS	00885	PAVEMENT MARKNGS - MAJ STS, COUNC APPRV RES 20-	16,681.07
STATE OF MICHIGAN	00428	QAAP FEE - AMBULANCE	653.25
MHR BILLING	01780	MAY EMS BILLING - AMB	1,122.00
DICKINSON WRIGHT PLLC	02244	LEGAL SERVICES FEB - GEN	57.00
GRAINGER, INC.	00172	2 RUN CAPACITOR - WW	42.12
GRAINGER, INC.	00172	PUMP RELAY - WW	43.50
SLC METER LLC	02286	TRIMBLE BATTERY/SHIPPING - WATER	445.79
KATHY'S CLEANING	01684	CLEANING SERVICES - CITY HALL	720.00
CHRIS TEACHOUT	02604	CLOTHING ALLOWANCE - ELECTRIC	300.00
SCOTT HONSOWITZ	00192	CLOTHING ALLOWANCE - ELECTRIC	80.01
FAMILY FARM & HOME	01972	LEAD WIRE/SWITCH DEGREASER - CEM, PARKS	17.98
BADER & SONS CO.	00031	WHEELS, SLEEVES, FILES - MTR POOL	93.43
HAMMERSMITH EQUIPMENT COMPANY	00183	BLADE - MTR POOL	99.00
MUNICIPAL SUPPLY CO.	00324	SAFETY GLASSES - MTR POOL	29.95
SHANE SCHEURER	01575	CLOTHING ALLOWANCE - ELECTRIC	300.00
DAVE & CARMEN PLINE	MISC	ENERGY OPTZ PROGRAM - ELECTRIC	235.00
JOHN PAUL WERNET	02491	CLOTHING ALLOWANCE - ELECTRIC	292.83
GARY BOND	MISC	ENERGY OPTZ PROGRAM - ELECTRIC	621.36
JULIE DEMELLO	MISC	ENERGY OPTZ PROGRAM - ELECTRIC	160.00
REBECCA & DAVID MARIAGE	MISC	ENERGY OPTZ PROGRAM - ELECTRIC	150.00
LARRY FANDEL	MISC	ENERGY OPTZ PROGRAM - ELECTRIC	150.00
KOLP ENTERPRISE LLC	MISC	ENERGY OPTZ PROGRAM - ELECTRIC	171.50
PORTLAND PUBLIC SCHOOLS	MISC	ENERGY OPTZ PROGRAM - ELECTRIC	153.54
MARK WOODMAN PLUMBING & HEATING	01816	REPAIRS RED MILL/BRUSH ST - PARKS	901.25
DORNBOS SIGN, INC.	00067	12' GALV CHANNEL POST - MAJ STS	484.50
DORNBOS SIGN, INC.	00067	12' 13' GAL U CHANNEL POST - LOC STS	456.30
DORNBOS SIGN, INC.	00067	STOCK SIGNS - MAJ, LOC STS	498.00
STATE OF MICHIGAN	00428	SAMPLES - WATER	96.00

VENDOR NAME	VENDOR	DESCRIPTION	AMOUNT
KEN GENSTERBLUM	00163	CLOTHING ALLOWANCE - WATER	131.19
DICKINSON WRIGHT PLLC	02244	MAY LEGAL SERVICES - GEN	2,717.00
PURITY CYLINDER GASES, INC.	00380	QUARTERLY CYLINDER RENTAL - AMB	286.77
KEUSCH SUPER SERVICE	00228	TRACTOR TIRES/TIRES- PARKS	316.00
KEUSCH SUPER SERVICE	00228	TRACTOR TIRES/MOUNT - PARKS	436.00
FAMILY FARM & HOME	01972	SHOP TOWELS/BATTERIES - PARKS	15.95
MENARDS	00260	WHEELBARROW PARTS - PARKS	154.98
VAN BRO'S IRRIGATION INC.	01762	IRRIGATION REPAIRS - CITY HALL	197.10
LANSING SANITARY SUPPLY	02485	HOUSEHOLD SUPPLIES - PARKS	115.48
BADER & SONS CO.	00031	ZTRACK MOWER TRADE IN - CEM, PARKS	3,495.00
NORTH CENTRAL LABORATORIES	00959	HIGH PERF AMMONIA ISE PR - WW	702.00
RESCO	00392	KVA ERMCO PAD TRAN - ELECTRIC	4,910.00
MUNICIPAL SUPPLY CO.	00324	RED MARKING PAINT - ELECTRIC	120.00
ELHORN ENGINEERING	00139	CHEM DELIVERY WELL HOUSES -WATER	523.00
KEUSCH SUPER SERVICE	00228	TIRE REPAIR- MTR POOL	25.00
MICHIGAN PAVING & MATERIALS CO.	02102	ASPHALT - LOC, MAJ STS	192.09
GALL'S LLC	00159	PATROL SHORTS - POLICE	62.00
QUALIFICATION TARGETS INC.	01890	TARGETS/SHIPPING - POLICE	81.05
GREG BARNES	00036	CLOTHING ALLOWANCE - LOCAL STS	279.27
STATE OF MICHIGAN - DEPT OF STATE	00428	NOTARY FILING CITY CLERK - GEN	10.00
DURRANT BROTHERS CONSTRUCTION LLC	02612	PAINTING OVER GRAFFITI IN TRAIL TUNNEL- PARKS	1,344.00
SPARROW OCCUPATIONAL HEALTH-LANSING	00340	PRE EMPLOY PHYSICAL J GRAPENTIEN - AMB	248.00
CITY OF PORTLAND- PETTY CASH	00701	VAR SUPPLIES - VAR DEPTS	810.30
MUNICIPAL INSPECTION SERVICES	00323	BLDG/TRADE PERMITS - GEN	875.00
Total:			\$109,187.08

**BI-WEEKLY
WAGE REPORT
June 29, 2020**

DEPARTMENT	GROSS EARNINGS CURRENT PAY	GROSS EARNINGS YEAR-TO-DATE	SOCIAL SECURITY & FRINGE BENEFITS CURRENT PAY	SOCIAL SECURITY & FRINGE BENEFITS YEAR-TO-DATE	TOTAL CURRENT PAYROLL	GRAND TOTAL YEAR-TO-DATE
GENERAL ADMIN.	8,176.75	239,553.87	331.37	64,658.84	8,508.12	304,212.71
ASSESSOR	956.28	27,765.09	73.16	2,129.44	1,029.44	29,894.53
CEMETERY	3,582.05	86,499.72	225.98	20,310.41	3,808.03	106,810.13
POLICE	15,338.03	370,378.17	1,098.25	90,709.21	16,436.28	461,087.38
CODE ENFORCEMENT	653.48	18,384.42	25.25	3,834.46	678.73	22,218.88
PARKS	3,711.19	64,402.57	249.72	10,436.55	3,960.91	74,839.12
INCOME TAX	1,706.43	50,547.71	6.58	19,081.96	1,713.01	69,629.67
MAJOR STREETS	3,405.76	90,318.73	(22.06)	37,193.71	3,383.70	127,512.44
LOCAL STREETS	3,022.58	92,039.79	(47.19)	34,752.57	2,975.39	126,792.36
RECREATION	236.87	17,471.32	10.17	3,173.94	247.04	20,645.26
AMBULANCE	10,792.94	304,687.61	601.28	63,760.28	11,394.22	368,447.89
DDA	1,786.24	59,963.64	257.58	9,793.39	2,043.82	69,757.03
ELECTRIC	20,269.58	469,867.44	1,760.96	124,323.25	22,030.54	594,190.69
WASTEWATER	7,066.10	167,192.74	491.24	46,035.27	7,557.34	213,228.01
WATER	4,249.32	137,422.10	17.54	48,055.63	4,266.86	185,477.73
MOTOR POOL	1,008.81	45,421.48	68.67	12,943.87	1,077.48	58,365.35
TOTALS:	85,962.41	2,241,916.40	5,148.50	591,192.78	91,110.91	2,833,109.18



PURCHASE ORDER

City of Portland

P.O. **6082**

259 Kent Street
Portland, MI 48875
(517) 647-7531

VENDOR SCC meter.

DATE: 6-23-2020

DESCRIPTION	GL NUMBER	SPLIT	LINE TOTAL
Beacon meter		Est.	9600.00
Reading Software.	591-441-935		
DEPARTMENT HEAD (UP TO \$500) <u>Roch D. Sosa</u>		TOTAL	

NT
Treasurer Initials

Authorized by City Manager
(For Purchases over \$500 and less than \$5,000)

SLC Meter llc
 595 Bradford St.
 Pontiac, MI 48341

Ph. 248-625-0667
 Fx. 248-625-8650
 www.slcmeter.com

PRICING

Date	Quote #
3/19/2020	33163

Name / Address
CITY OF PORTLAND 259 KENT STREET PORTLAND, MI 48875

Ship To
CITY OF PORTLAND 451 MORSE DR. PORTLAND, MI 48875

P.O. No.	Terms	Rep	Entered by
	Net 30	RS	RS

Item	Description	Qty	Unit Price	Total
BM-BENGAGE	UPGRADE FROM READCENTER SOFTWARE TO BEACON SOFTWARE CUSTOMER LOYALTY: Beacon Engagement agreement (up to 5,000 accounts) Excludes Utility Billing Software interface. The Beacon engagement fee is required for all Beacon AMA managed solution opportunities utilizing the published volume-based service unit pricing. This fee includes the set-up and activation of utility customer's (customer) Beacon AMA portfolio and initial licensing of the Beacon AMA software. Fees charged to a customer by its utility billing vendor for an interface file are the responsibility of the customer. Beacon engagement fee is based on total number of utility services system wide.	1	3,250.00	3,250.00
BM-BEACON AM...	BEACON AMA FOR MOBILE SOLUTIONS 69328-302. THIS ONSITE COURSE COVERS THE FULL FUNCTIONALITY OF THE MOBILE METER READING SYSTEM PROCESS UTILIZING THE BEACON AMA MOBILE READ MODULE.(ORION MOBILE READ AND FIELD DIRECTOR) AND ORION ENDPOINT UTILITY FOR WINDOWS 10 OS TABLET /LAPTOP HANDHELD AND WITH ORION ME MOBILE TRANSCEIVER AND OR CE MOBILE RECEIVER . NOTE THIS COURSE WILL BE DELIVERED IN ITS ENTIRETY OVER TWO CONSECUTIVE WEEKDAYS ONLY.	1	5,000.00	5,000.00

Please note the purchase and payment terms of SLC Meter llc. Written acceptance of this quotation is needed to order materials. All special order items have a 30% restocking fee. Brass products not marked "N-L" "E-B" or "NSF-61" may contain lead and are not for use in potable or drinking water systems. Please go to www.slcmeter.com for further details.	Total
--	--------------

SLC Meter llc
 595 Bradford St.
 Pontiac, MI 48341

Ph. 248-625-0667
 Fx. 248-625-8650
 www.slcmeter.com

PRICING

Date	Quote #
3/19/2020	33163

Name / Address
CITY OF PORTLAND 259 KENT STREET PORTLAND, MI 48875

Ship To
CITY OF PORTLAND 451 MORSE DR. PORTLAND, MI 48875

P.O. No.	Terms	Rep	Entered by
	Net 30	RS	RS

Item	Description	Qty	Unit Price	Total
BM-68886-501	Mobile read module for Drive-By meter reading (Year One) annual Beacon AMA field application-suite mobile read module and user log-in licenses are required for customers access to the Beacon AMA mobile meter reading software suite for Drive-By meter reading. Mobile read module license includes Beacon AMA field director, Orion mobile read software. Individual user logins are required for field director and Orion mobile read software. User log-in licenses are not included in the mobile read module license and must be purchased separately, per user. (Year One) License pricing to be based on number of mobile accounts to be brought into customers Beacon AMA portfolio as specified in customers initial PO. Number of mobile accounts in customer portfolio 90 days prior to current license expiration. A Badger Meter or utility supplied tablet or laptop which meets minimum system specification as defined on Beacon AMA mobile meter reading solution product data sheet BEA-DS-01912 and Orion ME mobile transceiver or CE mobile receiver kit are required for data synchronization and software updates.	1	900.00	900.00
BM-68886-502	Yearly mobile read module user log-in price brackets apply to number of eligible mobile accounts in customers Beacon AMA portfolio. Purchase increments of multiples of (12) service units applies. Service units will be consumed on a monthly basis.	1	300.00	300.00
BM-OBE-DA	BEACON MONTHLY DATA MANAGEMENT FEE, PER ACCOUNT, MANUAL READ AND ME (BILLED DIRECTLY BY BADGER)	1	0.06	0.06
BM-OME	***** ONCE YOU HAVE YOUR BEACON SOFTWARE IN PLACE AND RUNNING YOU CAN CONTINUE WITH YOUR ORION ME ENDPOINTS OR IF YOU DECIDE TO GO WITH CELLULAR READ YOU WILL BE SET UP TO DO SO. BADGER ME MIGRATABLE ENDPOINT WITH 8" TWIST TIGHT CONNECTOR ADDITIOANL CELLULAR ENDPOINTS	1	113.55	113.55

Please note the purchase and payment terms of SLC Meter llc. Written acceptance of this quotation is needed to order materials. All special order items have a 30% restocking fee. Brass products not marked "N-L" "E-B" or "NSF-61" may contain lead and are not for use in potable or drinking water systems. Please go to www.slcmeter.com for further details.

Total

SLC Meter llc
 595 Bradford St.
 Pontiac, MI 48341

Ph. 248-625-0667
 Fx. 248-625-8650
 www.slcmeter.com

PRICING

Date	Quote #
3/19/2020	33163

Name / Address
CITY OF PORTLAND 259 KENT STREET PORTLAND, MI 48875

Ship To
CITY OF PORTLAND 451 MORSE DR. PORTLAND, MI 48875

P.O. No.	Terms	Rep	Entered by
	Net 30	RS	RS

Item	Description	Qty	Unit Price	Total
BM-OBE-LTE-M	BADGER ORION LTE-M CELLULAR END POINT, TWIST TIGHT CONNECTOR, 8" WIRE W/ Wall Cover Install Kit (PN: 64394-032)	1	135.60	135.60
BM-OBE-SU	BADGER BEACON MANAGED SOLUTION FIXED- CELLULAR MONTHLY SERVICE UNIT, PER ENDPOINT 15 minute Data. Once Daily Call-in. End User Invoiced directly from Badger. *Engagement fee required. ***** CELLULAR ENDPOINTS WILL BE CHARGED 0.89 Per Month	1	0.89	0.89

Please note the purchase and payment terms of SLC Meter llc. Written acceptance of this quotation is needed to order materials. All special order items have a 30% restocking fee. Brass products not marked "N-L" "E-B" or "NSF-61" may contain lead and are not for use in potable or drinking water systems. Please go to www.slcmeter.com for further details.	Total	\$9,700.10
--	--------------	------------



PURCHASE ORDER

City of Portland

P.O. **6157**

259 Kent Street
Portland, MI 48875
(517) 647-7531

VENDOR Off and Running Painting - Jodi Slater
840 Ionia Rd.
Portland MI 48875

DATE: 6.18.2020

DESCRIPTION	GL NUMBER	SPLIT	LINE TOTAL
Bid Painting Boardwalk Railings + VMB Walkway Railings.	DDA - Contract Svc. CAPITAL OUTLAY		
\$40,000 -			
\$20,000 ⁰⁰ Down Payment to start.			
DEPARTMENT HEAD (UP TO \$500) _____		TOTAL	<u>20,00.00</u>

Treasurer Initials _____

Authorized by City Manager
(For Purchases over \$500 and less than \$5,000)

Off and Running Painting

ESTIMATE

Jodi Slater
840 Ionia Road
Portland MI 48875
Phone: 517.648.0432

ESTIMATE 746
DATE: MARCH 9 2020

TO:
City of Portland
c/o Tina Conner-Wellman
259 Kent Street
Portland, MI 48875

COMMENTS OR SPECIAL INSTRUCTIONS: 3 EMPLOYEES TO COMPLETE JOB. HALF DOWN REQUIRED TO BOOK, REMAINDER AT COMPLETION. I ESTIMATE COMPLETING THE HANDRAILS WILL TAKE ABOUT A MONTH. UPON FURTHER INSPECTION I THINK THE LIGHTS NEED TO BE COMPLETELY REMOVED FOR THE DURATION - THERE ISN'T A GOOD WAY TO TAKE THEM OFF SECTION BY SECTION. I CAN GO AROUND THEM BUT THEN THE AREAS UNDER WOULD BE SKIPPED AND THINK THE TIES WILL RUB OFF FRESH PAINT WITHOUT TIME TO SET.

DESCRIPTION	PRICE	TOTAL
Boardwalk railing on both sides from Grand River to Vet Bridge, and railing on Vet Bridge walkway inc railing on steps by Water Street: Protection of all areas not being refinished Clean railings Abrade to remove any loose paint and rust Rust pre-treatment application over all heavily rusted areas SW Macropoxy 696 Fast Cure Epoxy in black SW High-Solids Poly top coat Clean up		\$40,000
DDA 248.275.982.000  1/2 Down for project		\$20,000 ⁰⁰

Make all checks payable to Jodi Slater or Off and Running Painting
Venmo: @Jodi-Slater-1

Thank you for your business!

Off and Running Painting

ESTIMATE

Jodi Slater
840 Ionia Road
Portland MI 48875
Phone: 517.648.0432

ESTIMATE 746
DATE: MARCH 9 2020

TO:
City of Portland
c/o Tina Conner-Wellman
259 Kent Street
Portland, MI 48875

COMMENTS OR SPECIAL INSTRUCTIONS: 3 EMPLOYEES TO COMPLETE JOB. HALF DOWN REQUIRED TO BOOK, REMAINDER AT COMPLETION. I ESTIMATE COMPLETING THE HANDRAILS WILL TAKE ABOUT A MONTH. UPON FURTHER INSPECTION I THINK THE LIGHTS NEED TO BE COMPLETELY REMOVED FOR THE DURATION - THERE ISN'T A GOOD WAY TO TAKE THEM OFF SECTION BY SECTION. I CAN GO AROUND THEM BUT THEN THE AREAS UNDER WOULD BE SKIPPED AND THINK THE TIES WILL RUB OFF FRESH PAINT WITHOUT TIME TO SET.

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DDA 248.275.982.000 <i>(JWS)</i> 1/2 Down for project		\$20,000 ⁰⁰

Make all checks payable to Jodi Slater or Off and Running Painting
Venmo: @Jodi-Slater-1

Thank you for your business!

**Minutes of the Downtown Development Authority
City of Portland**

Held on Monday, May 26, 2020

Via Zoom Meeting ID# 859 9318 3733

Pursuant to Michigan Governor's Executive Orders 2020-15 and 2020-21

Members Present: Grimminck, Abel, Antaya, Madarang, Williamson, Briggs, Gorman, Barnes

Members Absent: None

Staff: DDA Director ConnerWellman, City Clerk Miller

Guests: Eric Proctor

Chair Grimminck called the meeting to order at 7:00 P.M.

There was no public comment.

Motion by Antaya, supported by Madarang, to approve the agenda as presented.

All in favor. Adopted.

Motion by Madarang, supported by Williamson, to approve the minutes of the February 24, 2020 meeting as presented.

All in favor. Adopted.

Motion by Abel, supported by Antaya, to approve the Treasurer's Report as presented.

All in favor. Adopted.

Under Team Reports, Director ConnerWellman that due to the COVID-19 Pandemic the teams have not been able to meet.

Under Old Business, Director ConnerWellman presented a conceptual drawing of the proposed Riverfront Park Improvement Project to include a splash pad and other amenities. She further stated the impact of the COVID-19 Pandemic to the budget and how it will affect this project will need to be evaluated.

Director ConnerWellman presented bids to have the boardwalk railings painted and the section separators replaced. She stated that it has been very difficult to obtain quotes for this project. It has been a two-year process and the proposed quotes of \$40,000 and \$90,000 are the only ones that have been received. The lower bid is \$20,000 higher than was budgeted for the project which is slated to be done this summer. The added expense could be taken out of this year's budget.

City Manager noted that City crews can supply the labor to replace the section separators on the boardwalk.

There was discussion about the painting quotes.

Member Briggs joined the meeting at 7:15 P.M.

Motion by Williamson, supported by Grimminck, to approve the quote from Off and Running Painting in the amount of \$40,000.00.

There was further discussion.

Chair Grimminck held the vote for the motion on the floor.
All in favor. Adopted.

Under New Business, Director ConnerWellman noted that the terms for Members Briggs and Madarang are due to expire on June 30, 2020. Both have expressed interest in serving another term on the DDA and will turn their applications in to City Clerk Miller.

Director ConnerWellman asked the Board their opinion if due to the COVID-19 Pandemic the Beerfest scheduled for August 8, 2020 should be canceled. She also provided insights from the Help Portland Re-open Safely Survey that was conducted via Facebook.

There was extensive discussion.

Motion by Antaya, supported by Abel, to cancel Beerfest scheduled for August 8, 2020 due to the COVID-19 Pandemic.
All in favor. Adopted.

Under the Director Report, Director ConnerWellman shared further results of the Help Portland Re-open Safely Survey.

Mayor Barnes joined the meeting at 7:40 P.M.

Director ConnerWellman presented her printed Downtown Development Director Report for March – May 2020.

Under Board Member Comments, City Manager Gorman provided a review of the how the City of Portland has responded to the COVID-19 Pandemic and development projects slated to take place over the summer.

Mayor Barnes thanked City Manager Gorman and Director ConnerWellman for their efforts and communications during this time.

Member Briggs noted the Garden Club held their Annual Geranium sale at the Red Mill Pavilion with social distancing guidelines in place. Everything went very well. She further noted that the planters in the downtown have been planted.

Motion by Williamson, supported by Antaya, to adjourn the meeting at 7:57 P.M.
All in favor. Adopted

Respectfully submitted,

Margery Briggs, Secretary

CITY OF PORTLAND

REPORT DATE
PERIOD COVERED

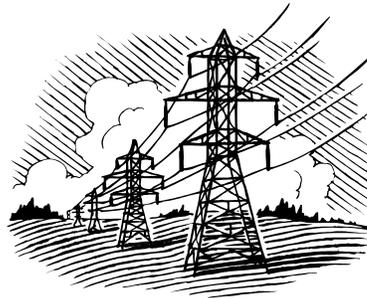
June 1, 2020
May 1-31, 2020

HYDRO GENERATION	157,133		
DIESEL PRODUCTION	0		
Kwh Purchased	2,664,108	Amount Paid	\$ 160,277.46
Total Kwh Purchased	2,821,241	Total Dollars Paid	\$ 160,277.46

Kwh Billed		Dollars Billed	
Residential	1,151,593	PCA Billed	\$ 39,160.00
Commercial	685,514	Residential	\$ 123,968.74
Large General	497,620	Residential EO Charge	\$ 2,118.61
City St. Lites Metered	21,775	Geothermal Discount	\$ -
St. Lites Unmetered		Commercial	\$ 72,544.00
Rental Lights		Commercial/LG EO Charge	\$ 2,453.19
Demand	1,834	Large General	\$ 35,237.75
		Large EO Charge	\$ 18.40
		City St. Lights Metered	\$ 1,853.57
		St. Lights Unmetered	\$ 1,543.05
Total Kwh Billed	2,358,336	Rental Lights	\$ 234.19
		Demand	\$ 10,767.64
Arrears after billing	\$ 26,543.74	Tax	\$ 11,270.63
Penalties Added	\$ 1,629.24		
Arrears end of month	\$ 50,615.04	Total Dollars Billed	\$ 301,169.77
Fuel Cost Billed	\$ 38,430.01		
Amount Collected	\$ 290,720.83	Power Cost Adj.	.01677
Total Adjustments	\$ 1,165.81		

Residential Customers	2,246
Commercial Customers	334
Large General	15
Total Customers	2,595

06/04/20



**CITY OF PORTLAND
June-20**

WATER DEPARTMENT REPORT

MONTH	May-20	PERIOD COVERED	May 1-31, 2020
Customers Billed		Penalties Added	\$ 350.94
City	1,852	Dollars Collected	\$ 45,335.27
Rural	24	Arrears at end of Month	\$ 8,393.32
Total Customers	1,876	Adjustments	\$ 206.47
		Gallons Pumped	8,455,000
		Hydrant Flusing/Rental (unmetered)	0 (hydrant flushing)
Gallons Billed		Dollars Billed	
City	7,064,519		\$ 45,067.68
Rural	153,029		\$ 1,664.95
Total	<u>7,217,548</u>		<u>\$ 46,732.63</u>

SEWER DEPARTMENT REPORT

Customers Billed	1,806	Dollars Billed	\$75,038.09
		Sewer Credit	\$ -
		Total Sewer Billed	\$ 75,038.09

Penalties Added	\$ 597.99
Dollars Collected	\$ 73,285.06
Arrears at end of Month	\$ 13,900.17
Adjustments	\$ 359.11
Gallons Treated per Million	?



MPPA QUARTERLY POWER SUPPLY PLAN FOR PORTLAND

1ST QUARTER 2020

Prepared by Keith Parrott

TABLE OF CONTENTS

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Recent Observations	6
Budget Variance Report	11
Hedge Plan Compliance	16
Future Projections	22
Current Hedges Executed	23

EXECUTIVE SUMMARY

Executive Summary

This report provides a review of the past three months power supply picture as well as a forecast and analysis of the key components of the Portland Light and Power Board (“Portland”) portfolio over the next five years. Portland can use the information in this report to develop a better understanding of the potential power supply costs that it may incur in the future. This report will also serve as a tool for monitoring compliance with the MPPA Risk Management Policy and the Hedge Policy selected by Portland.

Recent Observations:

Market Update:

Over the last three months, local temperatures were warmer versus last the same period last year with increased precipitation. Those monthly temperature changes did not appear to impact market prices as local LMP’s were consistently lower than the same period last year. Natural gas prices at Michcon Hub increased from \$2.12 per MMBtu in third quarter 2019, averaging \$2.18 per MMBtu through fourth quarter 2019.

Renewable Energy:

Portland received renewable energy from the MPPA Landfill Project and has served 10% of load from renewable resources through fourth quarter 2019. Portland has a hydro facility within the city that provides renewable energy.

Generation Performance:

Portland has access to coal-fired generation from its entitlement shares in MPPA’s Belle River and Campbell projects. In addition, Portland owns about 3 MW’s of peaking generation from Portland-owned diesel generation. Performance at Belle River resulted in a decrease of about 15.1% less MWh’s below forecast through fourth quarter 2019 due to significant unplanned outages. Campbell 3 produced about 8.4% more MWh’s above forecast through fourth quarter 2019. Internal generation has not had a significant impact to power supply due to low market prices.

The AFEC Project generated about 12.3% more MWh’s above forecast through fourth quarter 2019, but ending the year in an extended outage.

Load Forecast:

Portland has seen consistently lower loads over the through the fourth quarter 2019 and is 2.1% below forecast. (Page 14)

EXECUTIVE SUMMARY

Power Supply Costs:

Portland's average cost of supply through the fourth quarter 2019 is about 5.5% above forecast, costs averaged \$59.80 per MWh which is about \$3.12 per MWh above forecast. Total power supply costs are up by \$69k above forecast through fourth quarter 2019. This increase is due in part to a combination of higher than forecast MISO Market and bilateral transaction costs.

Future Projections:

Power Supply Model:

A five-year, hourly economic dispatch model has been utilized to forecast Portland's expected power supply position and the impact of the potential risks that exist for actual conditions varying from forecast. For this quarterly report, the time horizon analyzed is calendar years 2020 through 2024. The final pages in this report show the capacity and energy transactions that MPPA has previously entered into on behalf of Portland. All future projections incorporate those transactions.

Market Update:

Energy prices are forecasted to average under \$30.00 through 2024 and natural gas prices are expected to average under \$2.75 per MMBtu through 2024 at Michcon Hub, a Market Price forecast can be found on page 22. In Michigan, coal-fired generation continues to ramp down slightly as smaller units get retired until a marked reduction is expected to occur in 2023 when DTE retires a significant amount of generation. The MISO 2020 Planning Resource Auction will occur in April 2020 and has a high probability of showing a small amount of Zone 7 reserves causing an increase in capacity pricing.

Generation Forecast:

The MPPA Power Supply Model dispatches Belle River, Campbell 3, and AFEC based on block schedules. These schedules consider planned outages and are consistent with the data contained in the MPPA business plan. Landfill Gas schedules are developed based on the latest information from developers and no new landfills are contractually allowed to be put into operation. Member internal generation, peaking resources, and the Kalkaska CT are modeled to run when the hourly forecasted LMP exceeds the expected cost to operate the resources. This Power Supply Model also incorporates expected future supply from wind and solar Power Purchase Agreements.

Power Supply Cost Forecast:

MPPA continues to use our six-year financial plan for the forecasted generation and costs coming from the Projects. Using updated load forecast data and the latest Market price data, MPPA has generated a power supply cost forecast running out the next five years shown on

EXECUTIVE SUMMARY

page 19 and monthly on page 20. Page 19 also shows the impact that forecast errors will have from load and Market price projections being different than those used in the model. As more hedges are put into place, the shaded range of potential outcomes is reduced.

Hedge Policy Compliance:

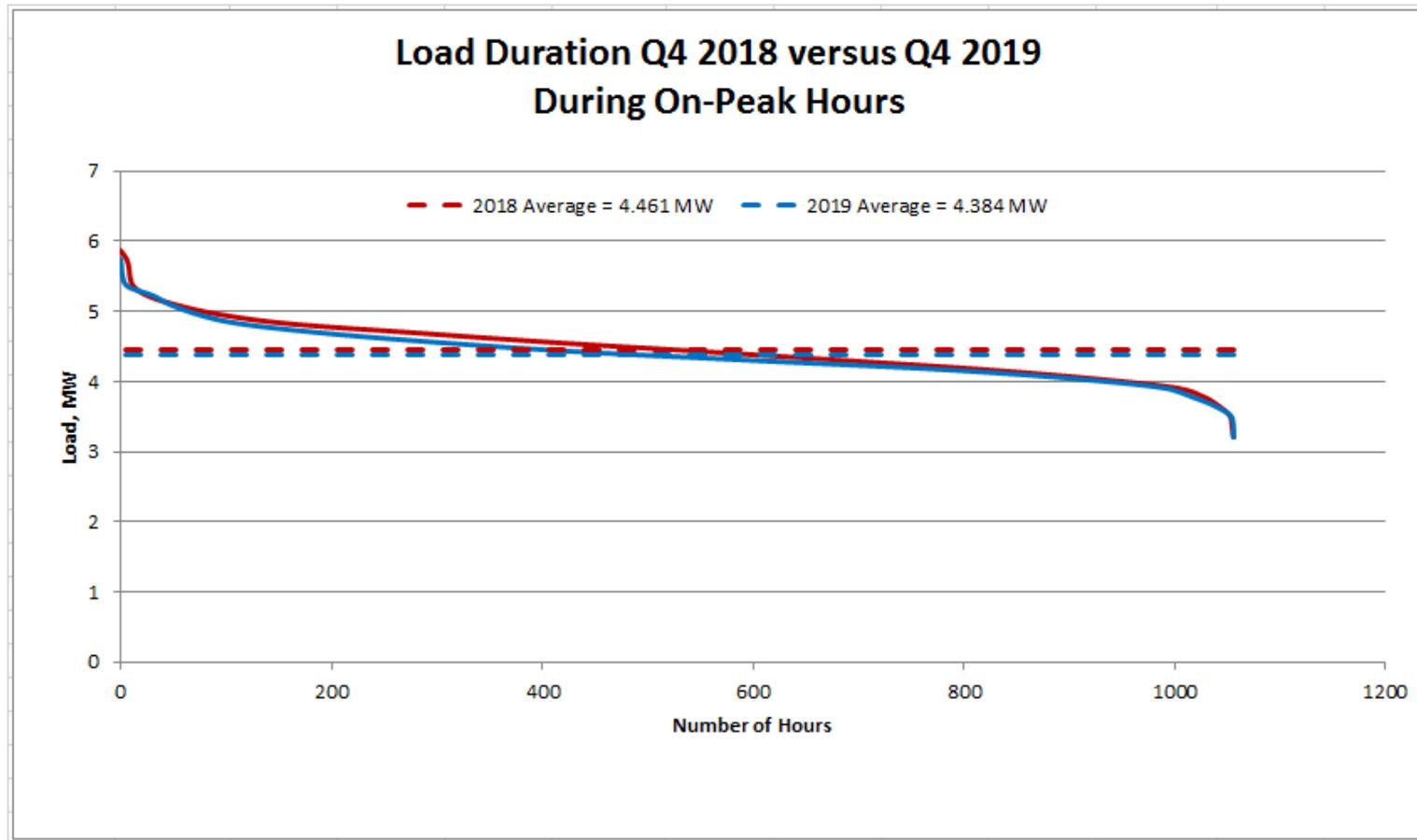
Current Position:

Portland has chosen the “Stability” hedge plan under MPPA’s Hedge Policy as a guide to determine future purchases. Portland’s position versus the hedge plan for energy can be seen on page 17 and capacity on page 21. These graphs reflect adjustments made during recent load forecast review.

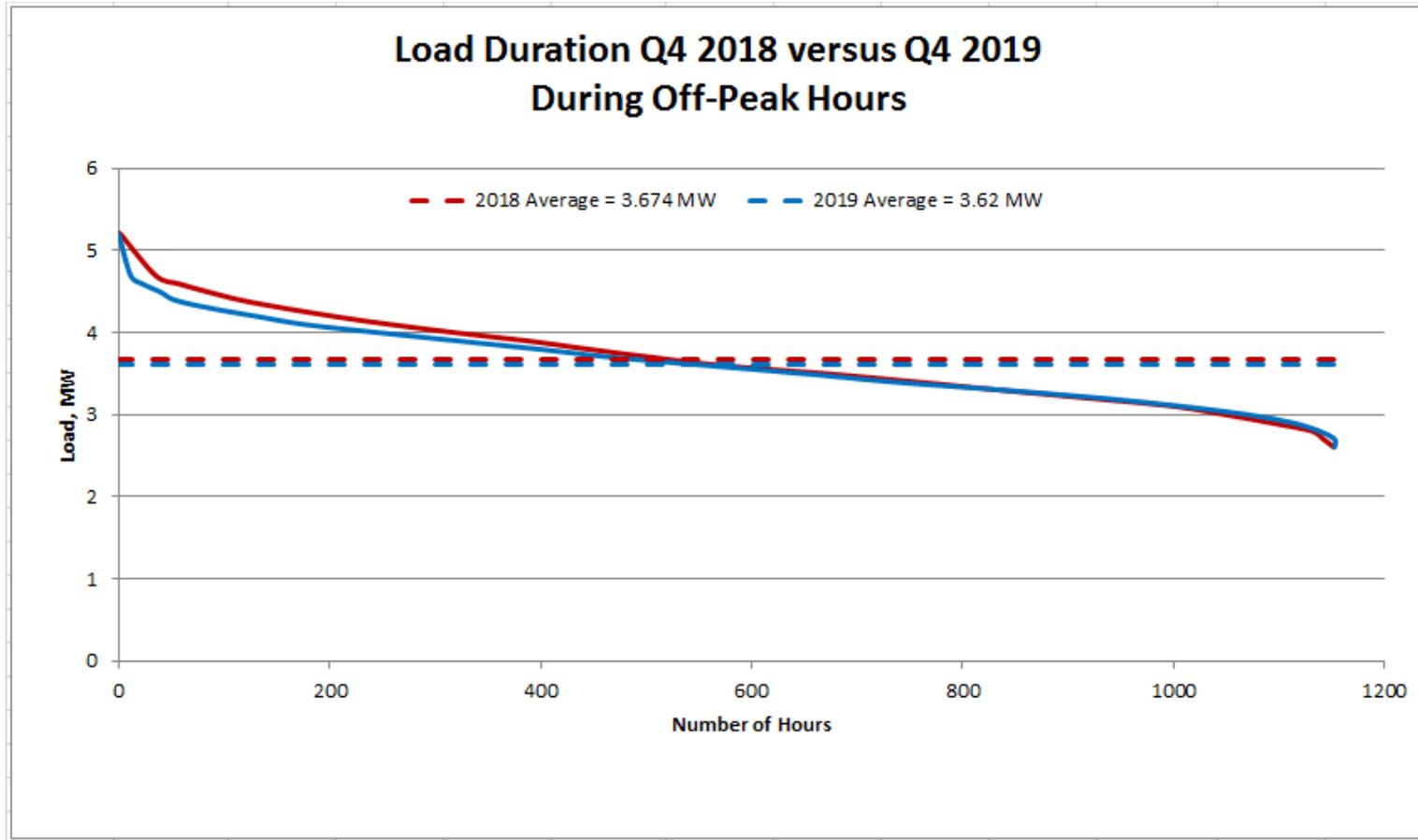
If needed, recommendations will be made for transactions to move current positions relative to the hedge plan requirements throughout the year.

RECENT OBSERVATIONS

Recent Observations



RECENT OBSERVATIONS



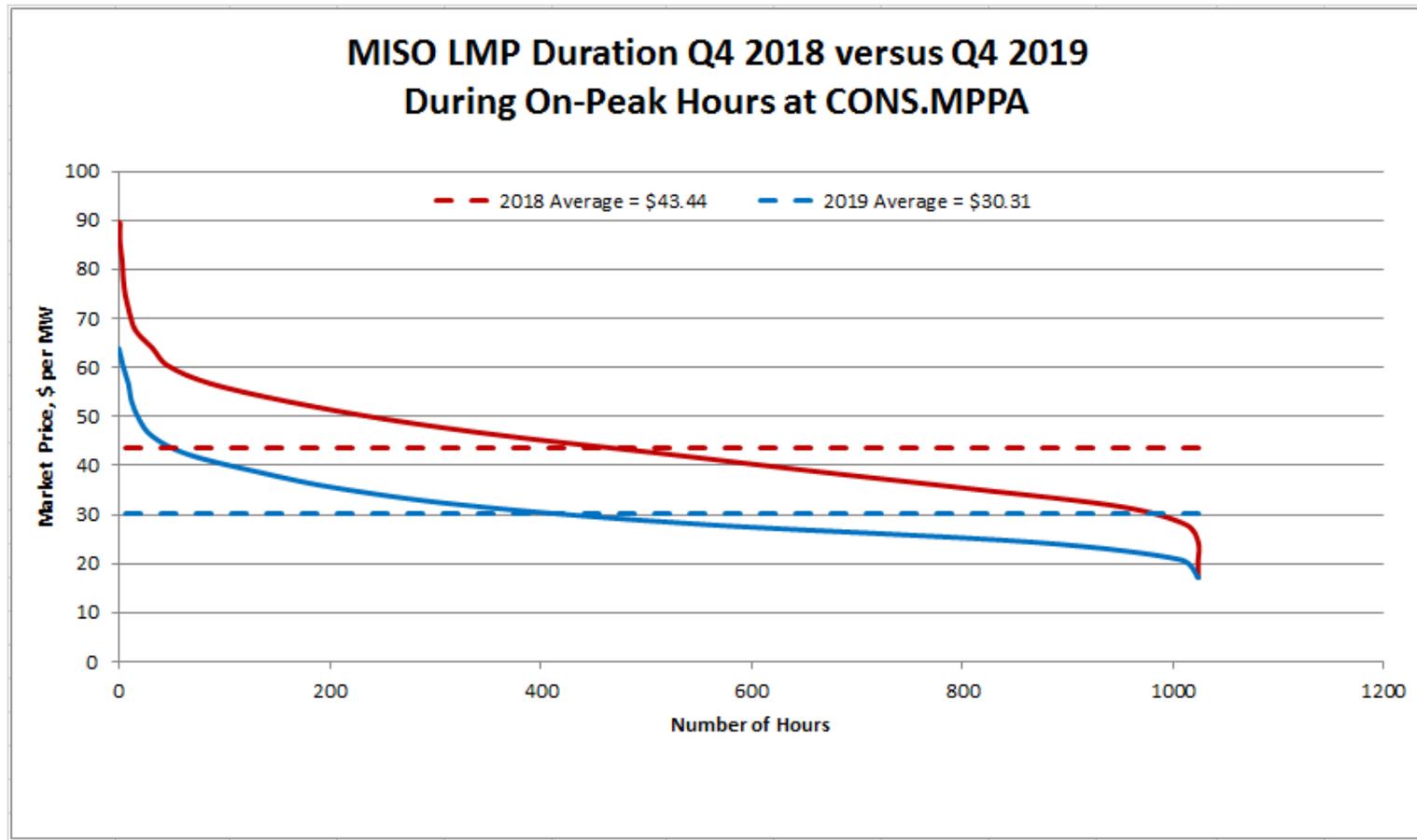
RECENT OBSERVATIONS

Weather Data

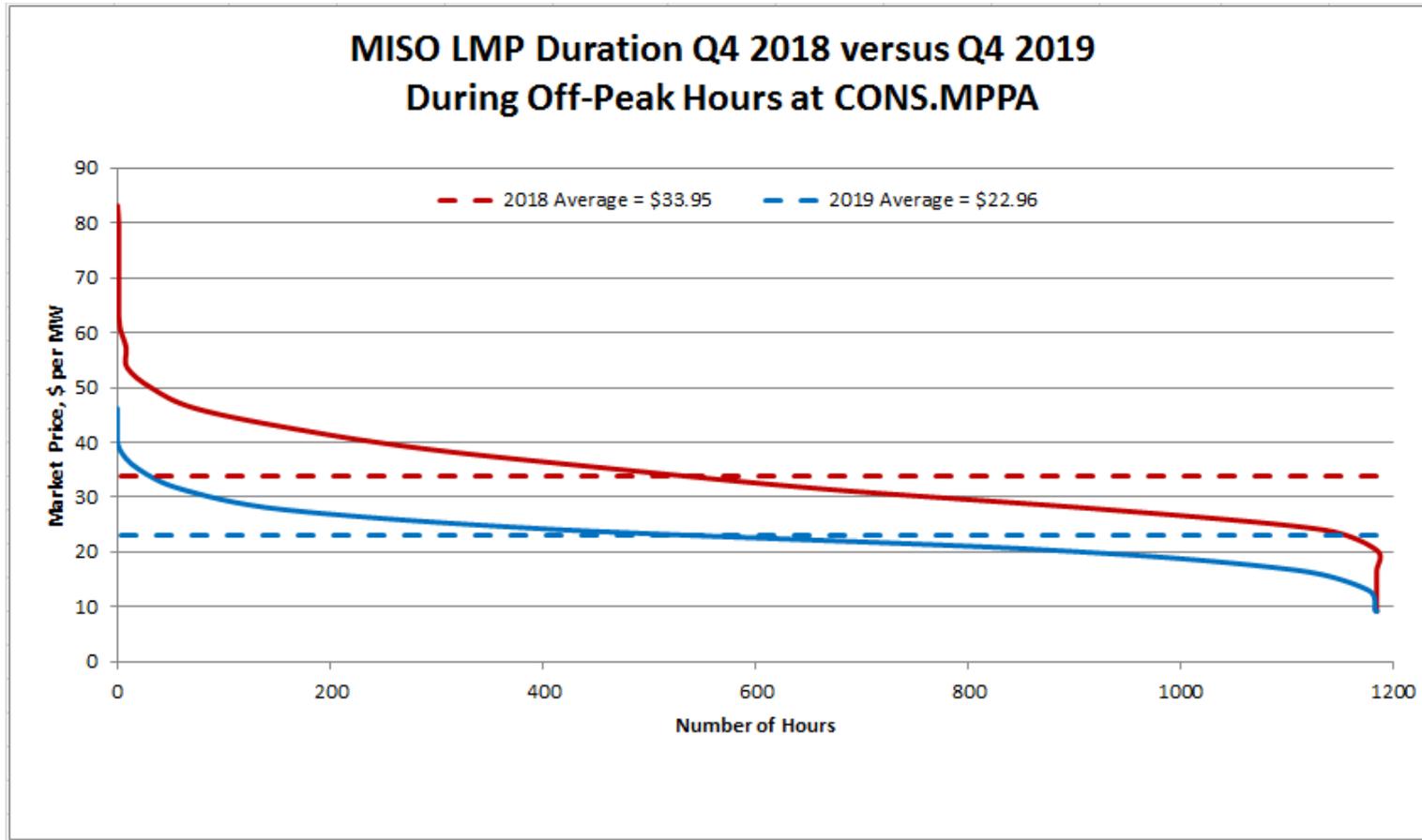
	Oct-19	Oct-18		Nov-19	Nov-18		Dec-19	Dec-18
Avg Max Temp, °F	60.4	59	Avg Max Temp, °F	40.3	38.5	Avg Max Temp, °F	39.8	37.6
Mean Temp, °F	51	49.8	Mean Temp, °F	33.2	33.5	Mean Temp, °F	32.8	31.5
Avg Min Temp, °F	41.6	40.6	Avg Min Temp, °F	26.2	28.5	Avg Min Temp, °F	25.7	25.3
Heating Degree Days	434	471	Heating Degree Days	954	945	Heating Degree Days	998	1039
Cooling Degree Days	0	0	Cooling Degree Days	0	0	Cooling Degree Days	0	0
Precipitation, in	5.93	4.77	Precipitation, in	2.03	2.72	Precipitation, in	3.27	1.83

RECENT OBSERVATIONS

Day Ahead MISO LMP's at CONS.MPPA node



RECENT OBSERVATIONS



BUDGET VARIANCE REPORT

Budget Variance Report

Energy Services Project														
2019 Member Energy Balance for Portland														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
Forecasted Load, MWh	3265	2819	2921	2663	2957	3237	3751	3548	3093	2820	2884	3295	37254	
Actual	3267	2882	2989	2578	2686	2948	3951	3431	2936	2800	2897	3103	36468	
Over/(Under)	2	63	68	(85)	(271)	(290)	201	(117)	(157)	(20)	12	(193)	(786)	-2.11%
Supplies														
Belle River, MWh	398	331	379	367	367	398	746	746	686	565	722	733	6438	
Actual	631	427	393	286	295	304	613	598	693	451	406	367	5465	
Over/(Under)	234	96	14	(82)	(72)	(94)	(133)	(148)	7	(114)	(315)	(366)	(973)	-15.12%
Campbell 3, MWh	432	390	404	84	432	418	432	432	418	56	14	432	3946	
Actual	181	404	439	434	452	438	443	461	439	53	75	461	4278	
Over/(Under)	(252)	13	34	350	20	20	11	29	21	(3)	61	28	332	8.41%
AFEC, MWh	335	284	291	266	180	245	300	282	254	99	62	256	2854	
Actual	347	340	379	341	230	306	361	335	315	142	0	110	3205	
Over/(Under)	12	56	88	75	50	61	60	54	61	43	(62)	(146)	351	12.31%
Bilateral Transactions, MWh	912	826	898	893	912	864	912	912	864	926	864	898	10680	
Actual	912	826	898	1397	1507	1656	1350	1057	1008	1150	1402	1050	14211	
Over/(Under)	0	(0)	0	504	595	792	438	145	144	223	538	152	3531	33.06%
Internal Generation, MWh	0	0	0	0	0	0	0	0	0	0	0	0	0	
Actual	0	0	0	0	0	0	0	0	0	0	0	0	0	
Over/(Under)	0	0	0	0	0	0	0	0	0	0	0	0	0	#DIV/0!
Other Renewables, MWh	155	150	190	184	111	150	156	165	103	149	154	252	1919	
Actual	177	84	118	216	198	167	211	148	106	263	233	247	2168	
Over/(Under)	22	(66)	(72)	32	87	17	55	(17)	3	115	79	(5)	248	12.93%
MISO Market - Balancing Energy	547	334	252	371	481	763	872	711	418	519	543	165	5976	
Actual	888	684	637	(232)	(141)	(61)	839	702	241	596	638	700	5491	
Over/(Under)	341	350	385	(603)	(621)	(824)	(34)	(9)	(176)	77	95	536	(484)	-8.11%

BUDGET VARIANCE REPORT

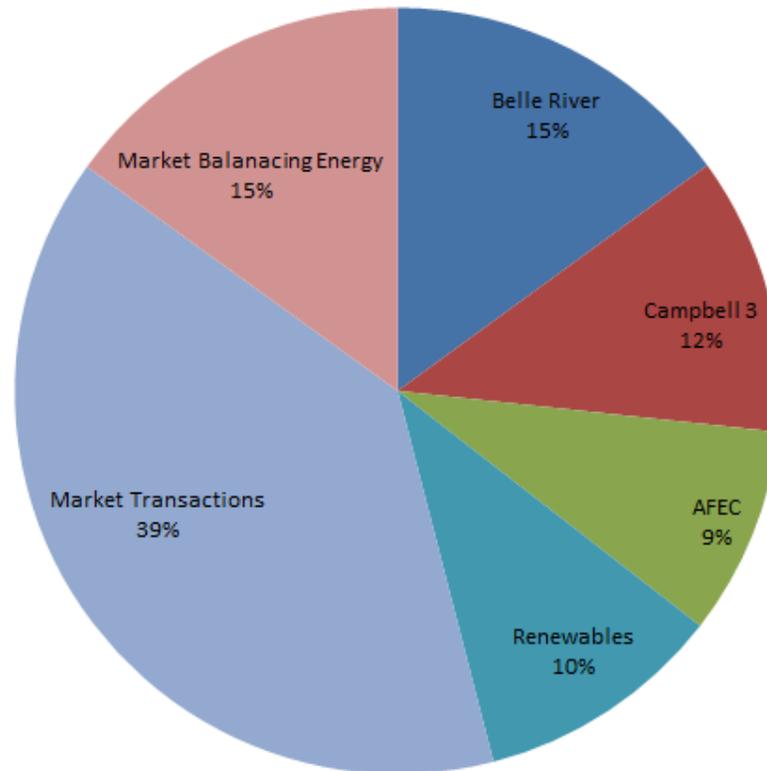
2019 MPPA Budget Costs														
MPPA Costs	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
Belle River	\$ 14,211	\$ 12,363	\$ 13,712	\$ 13,375	\$ 13,375	\$ 14,234	\$ 23,803	\$ 23,803	\$ 22,164	\$ 18,815	\$ 23,140	\$ 23,466	\$ 216,463	
Actual	19,778.20	\$19,564	\$17,720	\$15,618	\$14,771	\$16,214	\$17,370	\$24,516	\$24,611	\$25,770	\$21,421	\$14,506	\$231,859	
Over/(Under)	\$5,567	\$7,201	\$4,008	\$2,242	\$1,396	\$1,980	(\$6,433)	\$713	\$2,448	\$6,955	(\$1,720)	(\$8,960)	\$15,397	7.11%
Campbell 3	\$ 20,461	\$ 19,333	\$ 19,709	\$ 11,067	\$ 20,461	\$ 20,085	\$ 20,461	\$ 20,461	\$ 20,085	\$ 10,316	\$ 9,189	\$ 20,461	\$ 212,087	
Actual	17,207.07	\$11,411	\$18,981	\$19,395	\$19,010	\$17,585	\$23,032	\$22,004	\$22,901	\$22,678	\$15,705	\$11,708	\$221,616	
Over/(Under)	(\$3,254)	(\$7,922)	(\$728)	\$8,328	(\$1,451)	(\$2,500)	\$2,571	\$1,543	\$2,816	\$12,362	\$6,516	(\$8,753)	\$9,529	4.49%
AFEC	\$ 17,908	\$ 16,162	\$ 16,383	\$ 15,554	\$ 12,595	\$ 14,830	\$ 16,715	\$ 16,077	\$ 15,127	\$ 9,830	\$ 8,548	\$ 15,212	\$ 174,941	
Actual	18,629.52	\$17,725	\$19,720	\$18,210	\$14,660	\$17,019	\$19,100	\$18,235	\$17,321	\$11,673	\$6,647	\$10,597	\$189,535	
Over/(Under)	\$722	\$1,562	\$3,337	\$2,656	\$2,065	\$2,189	\$2,385	\$2,158	\$2,194	\$1,844	(\$1,902)	(\$4,614)	\$14,595	8.34%
Total Renewables	\$ 39,003	\$ 38,704	\$ 42,461	\$ 41,383	\$ 35,200	\$ 34,737	\$ 32,631	\$ 31,962	\$ 29,211	\$ 39,347	\$ 40,319	\$ 49,271	\$ 454,230	
Actual	\$25,010	\$19,028	\$21,815	\$29,087	\$28,072	\$24,507	\$29,784	\$23,739	\$20,577	\$32,746	\$31,560	\$33,695	\$319,621	
Over/(Under)	(\$13,993)	(\$19,676)	(\$20,647)	(\$12,296)	(\$7,127)	(\$10,231)	(\$2,847)	(\$8,223)	(\$8,633)	(\$6,602)	(\$8,759)	(\$15,576)	(\$134,609)	-29.63%
Other Renewables	\$ 11,654	\$ 11,300	\$ 14,286	\$ 13,796	\$ 8,347	\$ 11,244	\$ 11,684	\$ 12,346	\$ 7,761	\$ 11,153	\$ 11,542	\$ 18,912	\$ 144,025	
Actual	\$13,292	\$6,306	\$8,847	\$16,200	\$14,834	\$12,499	\$15,808	\$11,075	\$7,959	\$19,761	\$17,438	\$18,558	\$162,578	
Over/(Under)	\$1,638	(\$4,993)	(\$5,439)	\$2,404	\$6,488	\$1,255	\$4,125	(\$1,272)	\$198	\$8,608	\$5,896	(\$354)	\$18,553	
Bilateral Transactions	\$ 40,437	\$ 36,603	\$ 39,822	\$ 39,569	\$ 40,437	\$ 38,338	\$ 40,437	\$ 40,437	\$ 38,338	\$ 41,053	\$ 38,338	\$ 39,822	\$ 473,632	
Actual	40,437.39	\$36,604	\$39,822	\$54,629	\$58,561	\$61,980	\$55,594	\$45,304	\$42,227	\$47,159	\$51,543	\$44,334	\$578,193	
Over/(Under)	\$0	\$0	\$0	\$15,060	\$18,124	\$23,642	\$15,157	\$4,867	\$3,888	\$6,106	\$13,204	\$4,512	\$104,562	22.08%
MISO Market	\$ 12,481	\$ 7,758	\$ 4,687	\$ 7,067	\$ 11,218	\$ 17,924	\$ 26,891	\$ 24,591	\$ 11,250	\$ 10,856	\$ 12,161	\$ 4,144	\$ 151,027	
Actual	\$30,116	\$19,857	\$20,397	(\$5,502)	(\$2,595)	\$893	\$25,475	\$24,669	\$13,196	\$13,003	\$21,097	\$18,360	\$178,965	
Over/(Under)	\$17,635	\$12,099	\$15,710	(\$12,569)	(\$13,813)	(\$17,031)	(\$1,416)	\$78	\$1,947	\$2,147	\$8,935	\$14,216	\$27,938	18.50%
Total Transmission	\$ 18,288	\$ 17,689	\$ 16,568	\$ 14,793	\$ 24,941	\$ 26,496	\$ 27,958	\$ 30,255	\$ 25,411	\$ 16,221	\$ 17,543	\$ 18,546	\$ 254,709	
Actual	\$22,851	\$27,167	\$21,930	\$15,354	\$11,690	\$29,393	\$30,180	\$26,156	\$28,272	\$18,563	\$23,515	\$18,568	\$273,639	
Over/(Under)	\$4,563	\$9,478	\$5,362	\$561	(\$13,252)	\$2,897	\$2,222	(\$4,098)	\$2,861	\$2,342	\$5,972	\$21	\$18,930	7.43%
MPPA ESP Overhead	\$ 3,856	\$ 3,856	\$ 3,856	\$ 3,856	\$ 3,856	\$ 3,856	\$ 3,856	\$ 3,856	\$ 3,856	\$ 3,856	\$ 3,856	\$ 3,856	\$ 46,271	
Actual	3,735.96	\$4,036	\$4,761	\$3,529	\$4,076	\$4,010	\$4,677	\$5,063	\$3,568	\$4,945	\$5,659	\$23,684	\$71,745	
Over/(Under)	(\$120)	\$180	\$905	(\$327)	\$221	\$154	\$821	\$1,207	(\$288)	\$1,090	\$1,803	\$19,828	\$25,473	55.05%
Member Cost														
Internal Generation Cost	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Actual	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Over/(Under)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	#DIV/0!
Total Cost of Supply	\$ 175,576	\$ 161,401	\$ 166,131	\$ 155,596	\$ 171,015	\$ 182,433	\$ 204,684	\$ 203,373	\$ 177,373	\$ 162,225	\$ 165,027	\$ 186,709	\$ 2,111,543	
Actual	\$186,574	\$164,203	\$173,953	\$159,129	\$157,053	\$181,821	\$215,438	\$199,912	\$182,900	\$186,763	\$187,373	\$185,677	\$2,180,797	
Over/(Under)	\$10,997	\$2,802	\$7,823	\$3,533	(\$13,961)	(\$612)	\$10,754	(\$3,461)	\$5,528	\$24,537	\$22,346	(\$1,032)	\$69,254	3.28%
Average Cost of Supply	\$ 53.77	\$ 57.25	\$ 56.87	\$ 58.44	\$ 57.82	\$ 56.35	\$ 54.57	\$ 57.33	\$ 57.35	\$ 57.53	\$ 57.22	\$ 56.66	\$ 56.68	
Actual	\$ 57.10	\$56.97	\$58.20	\$61.73	\$58.47	\$61.68	\$54.52	\$58.27	\$62.29	\$66.70	\$64.69	\$59.85	\$ 59.80	
Over/(Under)	\$3.33	(\$0.28)	\$1.32	\$3.29	\$0.65	\$5.33	(\$0.05)	\$0.95	\$4.94	\$9.17	\$7.47	\$3.19	\$3.12	5.50%

BUDGET VARIANCE REPORT

Per Unit Summary														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD	
Belle River	\$ 35.75	\$ 37.41	\$ 36.14	\$ 36.42	\$ 36.42	\$ 35.73	\$ 31.92	\$ 31.92	\$ 32.30	\$ 33.32	\$ 32.06	\$ 31.99	\$ 33.62	
Actual	\$31.32	\$45.85	\$45.08	\$54.70	\$50.11	\$53.26	\$28.35	\$41.00	\$35.50	\$57.13	\$52.72	\$39.48	\$42.43	
Over/(Under)	(\$4.42)	\$8.44	\$8.95	\$18.27	\$13.68	\$17.53	(\$3.56)	\$9.08	\$3.20	\$23.81	\$20.65	\$7.49	\$8.80	26.19%
Campbell 3	\$ 47.34	\$ 49.53	\$ 48.75	\$ 132.30	\$ 47.34	\$ 48.02	\$ 47.34	\$ 47.34	\$ 48.02	\$ 184.98	\$ 659.05	\$ 47.34	\$ 53.75	
Actual	\$95.25	\$28.27	\$43.28	\$44.70	\$42.07	\$40.13	\$52.01	\$47.74	\$52.19	\$430.95	\$209.03	\$25.42	\$51.81	
Over/(Under)	\$47.91	(\$21.26)	(\$5.46)	(\$87.60)	(\$5.27)	(\$7.89)	\$4.67	\$0.40	\$4.17	\$245.97	(\$450.03)	(\$21.92)	(\$1.94)	-3.62%
AFEC	\$ 53.42	\$ 56.88	\$ 56.37	\$ 58.39	\$ 70.02	\$ 60.48	\$ 55.66	\$ 57.08	\$ 59.58	\$ 99.29	\$ 138.90	\$ 59.33	\$ 61.29	
Actual	\$53.70	\$52.15	\$52.02	\$53.39	\$63.78	\$55.62	\$52.94	\$54.38	\$55.01	\$82.36	#DIV/0!	\$96.34	\$59.13	
Over/(Under)	\$0.27	(\$4.72)	(\$4.35)	(\$5.00)	(\$6.24)	(\$4.85)	(\$2.72)	(\$2.69)	(\$4.57)	(\$16.93)	#DIV/0!	\$37.01	(\$2.16)	-3.53%
Renewables	\$ 60.79	\$ 59.12	\$ 60.96	\$ 60.73	\$ 60.11	\$ 63.30	\$ 66.88	\$ 68.79	\$ 64.46	\$ 60.05	\$ 59.30	\$ 60.77	\$ 61.71	
Actual	\$81.06	\$93.87	\$89.57	\$82.47	\$81.83	\$80.49	\$86.12	\$85.65	\$85.66	\$80.01	\$84.00	\$81.31	\$83.72	
Over/(Under)	\$20.27	\$34.76	\$28.61	\$21.74	\$21.71	\$17.19	\$19.24	\$16.86	\$21.20	\$19.96	\$24.70	\$20.54	\$22.01	35.66%
Bilateral Transactions	\$ 44.34	\$ 44.34	\$ 44.36	\$ 44.32	\$ 44.34	\$ 44.37	\$ 44.34	\$ 44.34	\$ 44.37	\$ 44.31	\$ 44.37	\$ 44.36	\$ 44.35	
Actual	\$44.34	\$44.34	\$44.36	\$39.11	\$38.85	\$37.43	\$41.17	\$42.87	\$41.89	\$41.02	\$36.77	\$42.24	\$40.69	
Over/(Under)	\$0.00	\$0.00	\$0.00	(\$5.21)	(\$5.48)	(\$6.95)	(\$3.17)	(\$1.47)	(\$2.48)	(\$3.29)	(\$7.60)	(\$2.13)	(\$3.66)	-8.26%
MISO Market	\$ 22.83	\$ 23.22	\$ 18.57	\$ 19.04	\$ 23.34	\$ 23.50	\$ 30.82	\$ 34.57	\$ 26.95	\$ 20.93	\$ 22.39	\$ 25.15	\$ 25.27	
Actual	\$33.92	\$29.03	\$32.01	\$23.71	\$18.45	(\$14.53)	\$30.37	\$35.12	\$54.72	\$21.82	\$33.08	\$26.21	\$32.59	
Over/(Under)	\$11.10	\$5.81	\$13.44	\$4.67	(\$4.89)	(\$38.03)	(\$0.45)	\$0.55	\$27.78	\$0.89	\$10.69	\$1.06	\$7.32	28.95%
Trans Cost per MWh Load	\$ 5.60	\$ 6.27	\$ 5.67	\$ 5.56	\$ 8.43	\$ 8.18	\$ 7.45	\$ 8.53	\$ 8.22	\$ 5.75	\$ 6.08	\$ 5.63	\$ 6.84	
Actual	\$6.99	\$9.42	\$7.34	\$5.96	\$4.35	\$9.97	\$7.64	\$7.62	\$9.63	\$6.63	\$8.12	\$5.98	\$7.50	
Over/(Under)	\$1.39	\$3.15	\$1.66	\$0.40	(\$4.08)	\$1.79	\$0.18	(\$0.90)	\$1.41	\$0.88	\$2.04	\$0.36	\$0.67	9.75%
MISO LMP, 7x24	\$ 38.02	\$ 32.47	\$ 32.75	\$ 34.30	\$ 35.80	\$ 39.75	\$ 37.35	\$ 37.00	\$ 34.70	\$ 33.90	\$ 35.10	\$ 39.15	\$ 35.86	
Actual	\$32.91	\$28.27	\$30.27	\$28.25	\$27.01	\$24.65	\$29.41	\$25.54	\$26.45	\$24.83	\$29.73	\$24.66	\$27.67	
Over/(Under)	(\$5.11)	(\$4.20)	(\$2.48)	(\$6.05)	(\$8.79)	(\$15.10)	(\$7.94)	(\$11.46)	(\$8.25)	(\$9.07)	(\$5.37)	(\$14.49)	(\$8.19)	-22.85%
MISO LMP, 5x16	\$ 27.94	\$ 26.67	\$ 25.80	\$ 26.40	\$ 25.70	\$ 25.60	\$ 27.15	\$ 25.30	\$ 25.60	\$ 25.85	\$ 25.45	\$ 27.80	\$ 26.27	
Actual	\$36.92	\$30.73	\$32.81	\$31.18	\$30.23	\$28.32	\$34.80	\$29.85	\$31.75	\$28.28	\$34.15	\$27.82	\$31.40	
Over/(Under)	\$8.98	\$4.06	\$7.01	\$4.78	\$4.53	\$2.72	\$7.65	\$4.55	\$6.15	\$2.43	\$8.70	\$0.02	\$5.13	19.53%
PJM LMP, 5x16	\$ 27.94	\$ 26.67	\$ 25.80	\$ 26.40	\$ 25.70	\$ 25.60	\$ 27.15	\$ 25.30	\$ 25.60	\$ 25.85	\$ 25.45	\$ 27.80	\$ 26.27	
Actual	\$36.09	\$28.66	\$27.69	\$26.09	\$26.35	\$25.59	\$29.82	\$26.30	\$34.21	\$29.90	\$31.38	\$21.37	\$28.62	
Over/(Under)	\$8.15	\$1.99	\$1.89	(\$0.31)	\$0.65	(\$0.01)	\$2.67	\$1.00	\$8.61	\$4.05	\$5.93	(\$6.43)	\$2.35	8.94%

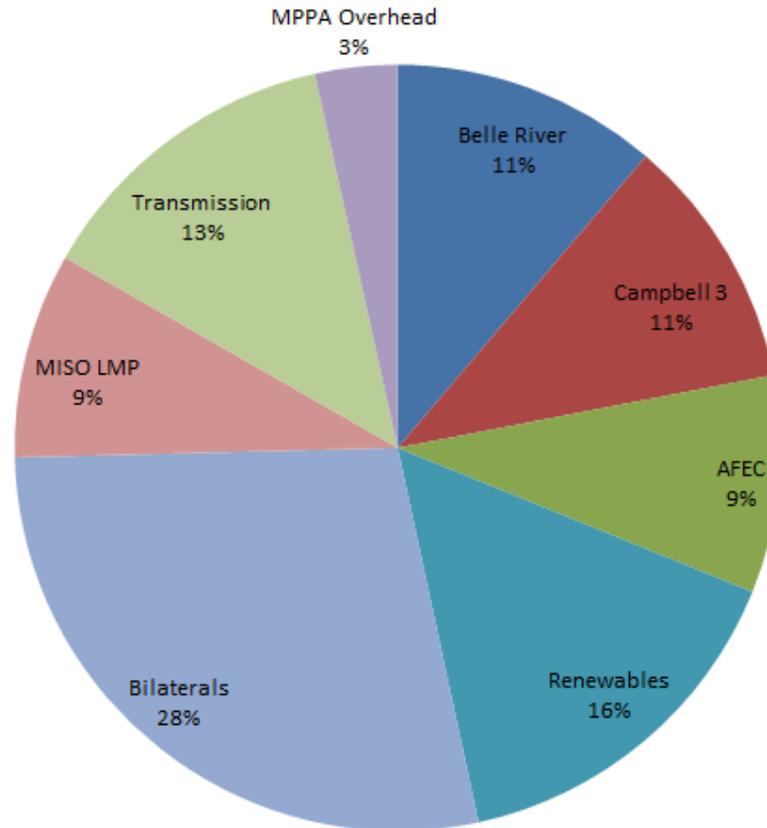
BUDGET VARIANCE REPORT

Where do the MWh's come from that served my load?



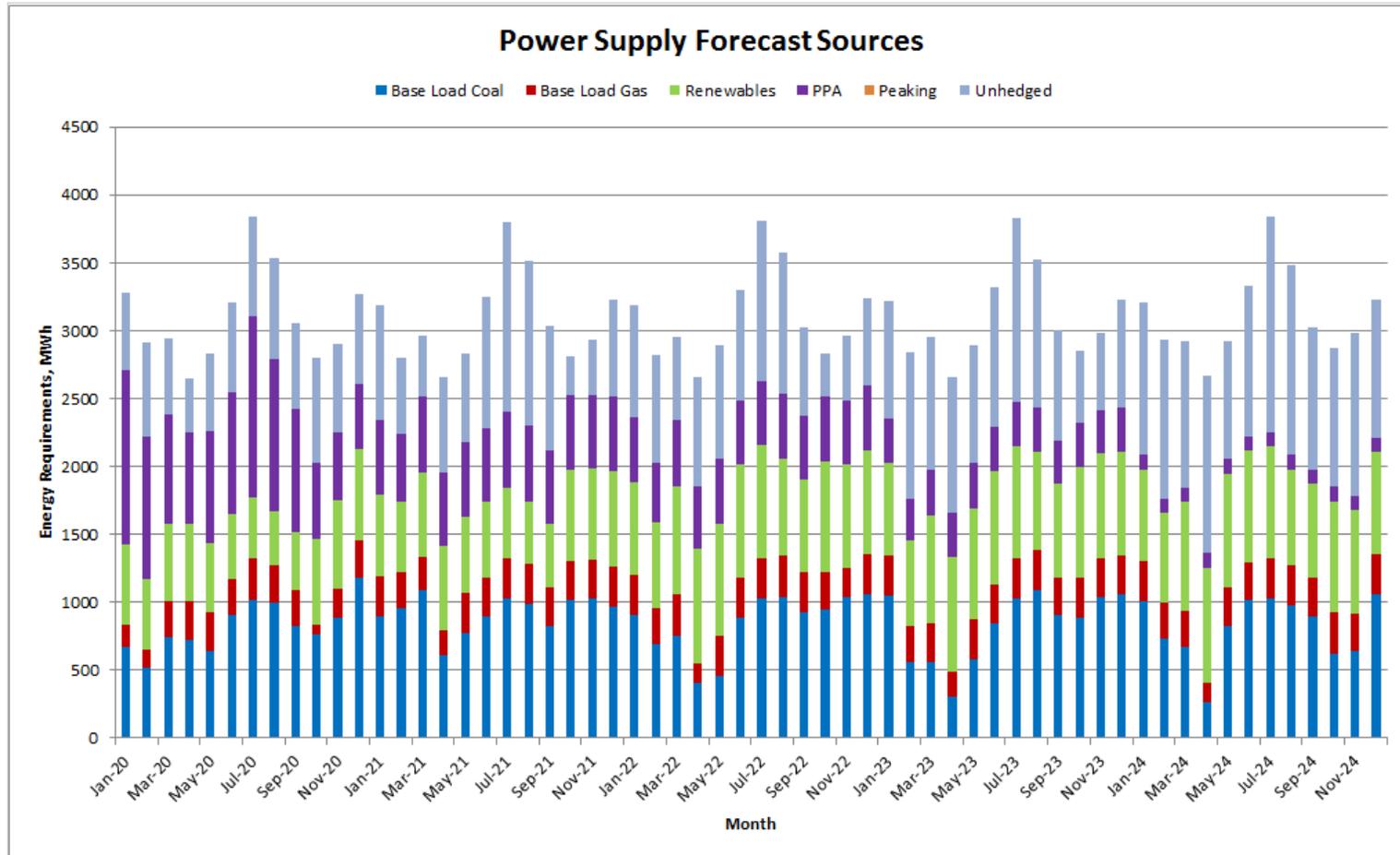
BUDGET VARIANCE REPORT

Where have my power supply costs come from?

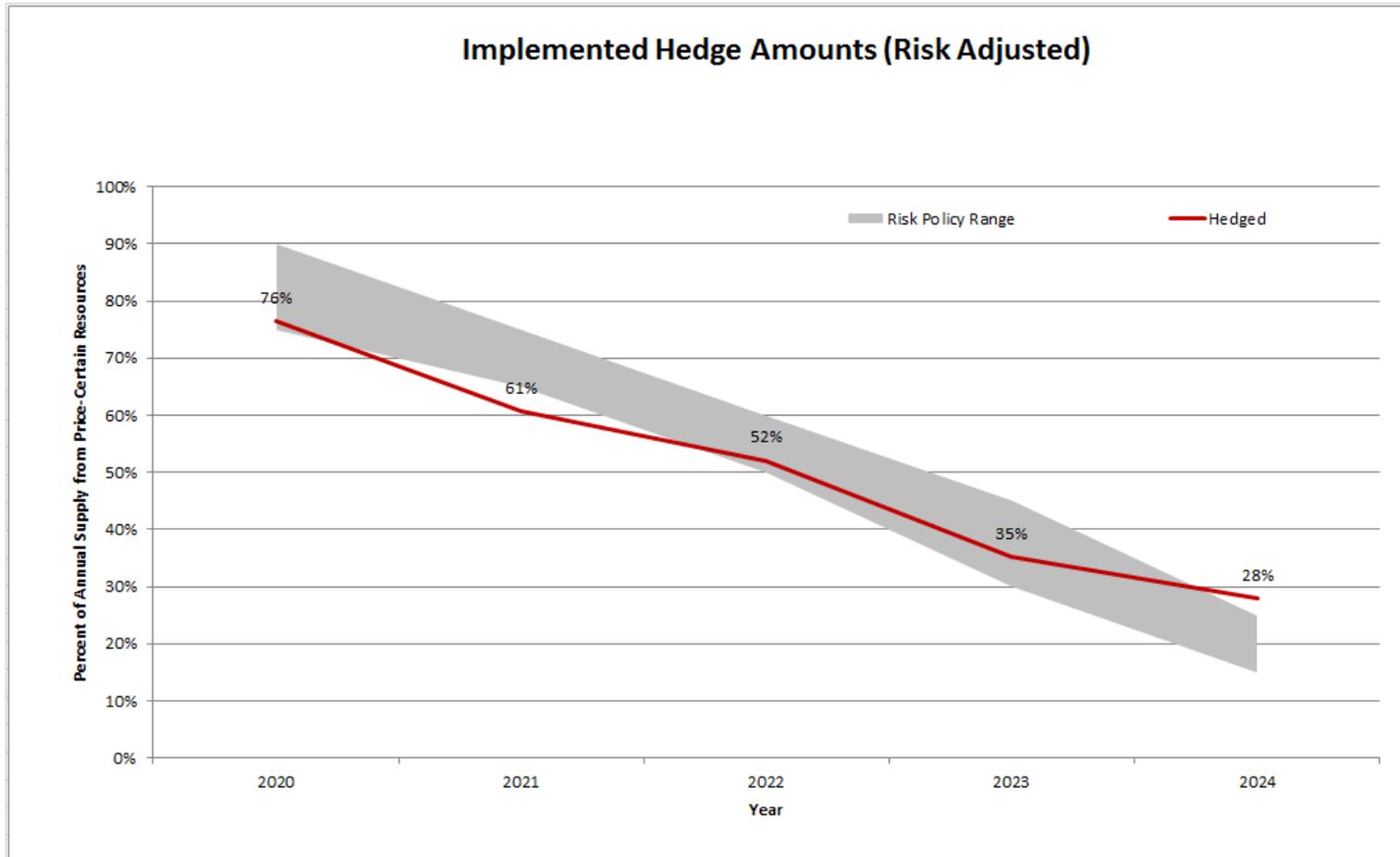


HEDGE PLAN COMPLIANCE

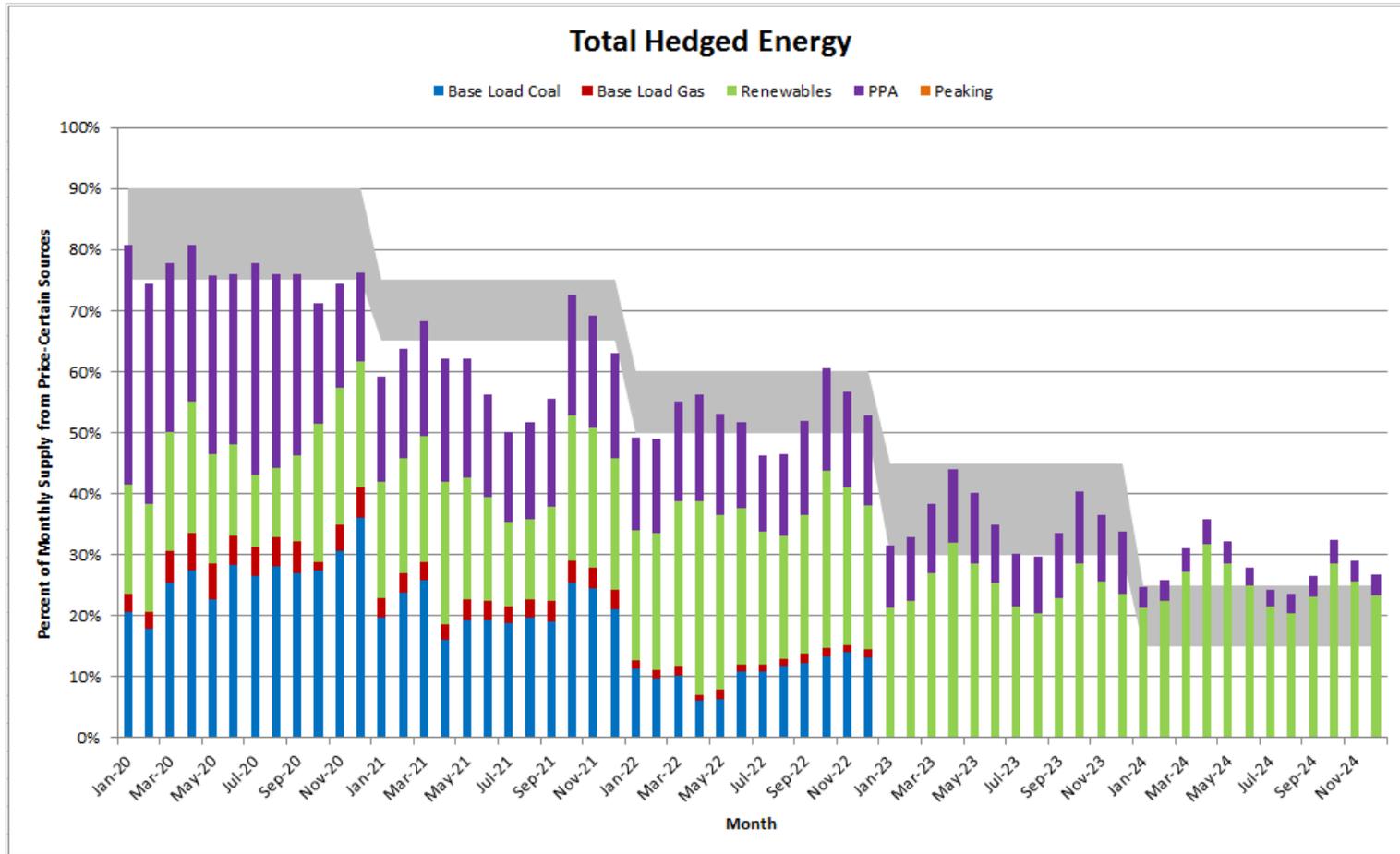
Hedge Plan Compliance



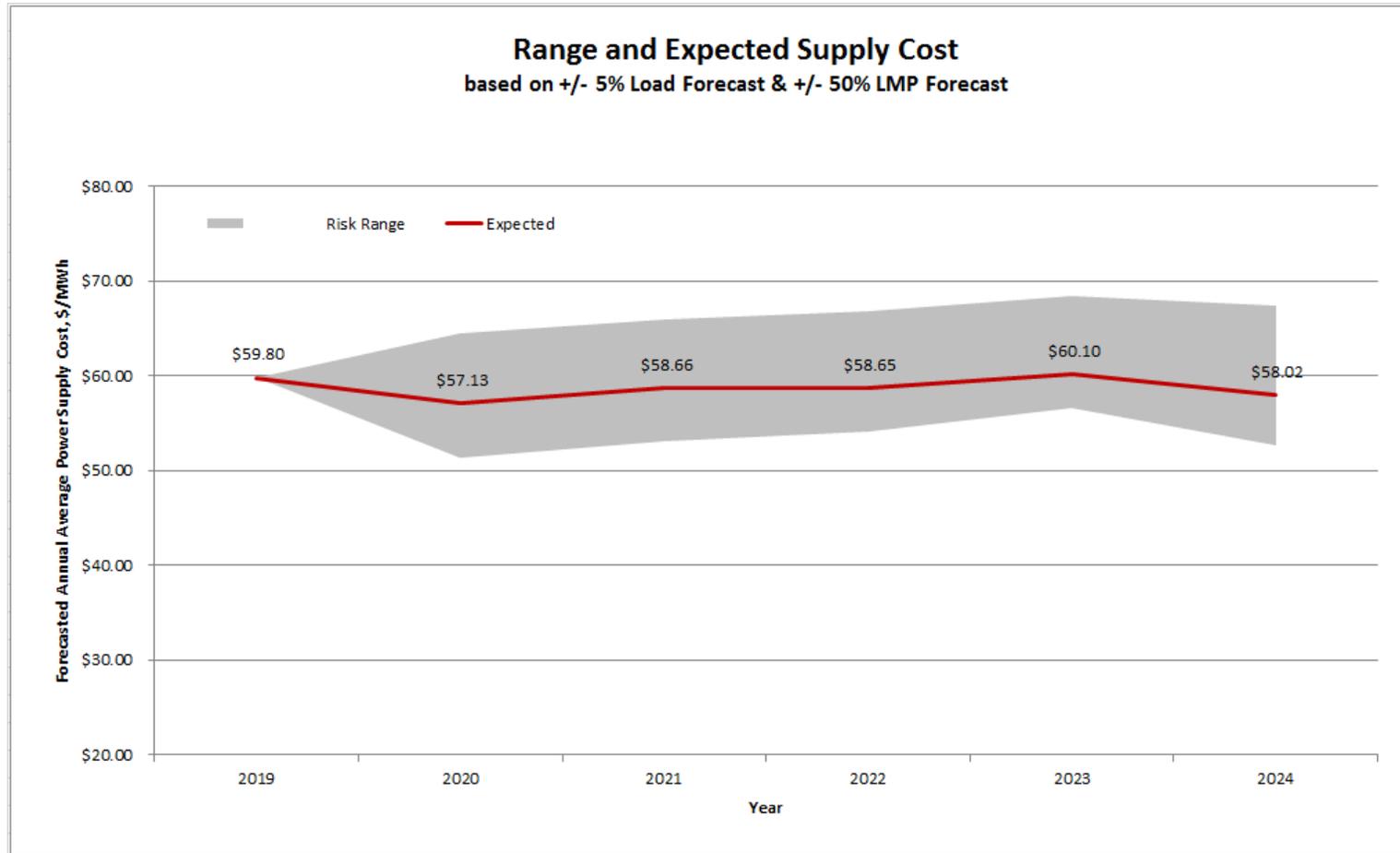
HEDGE PLAN COMPLIANCE



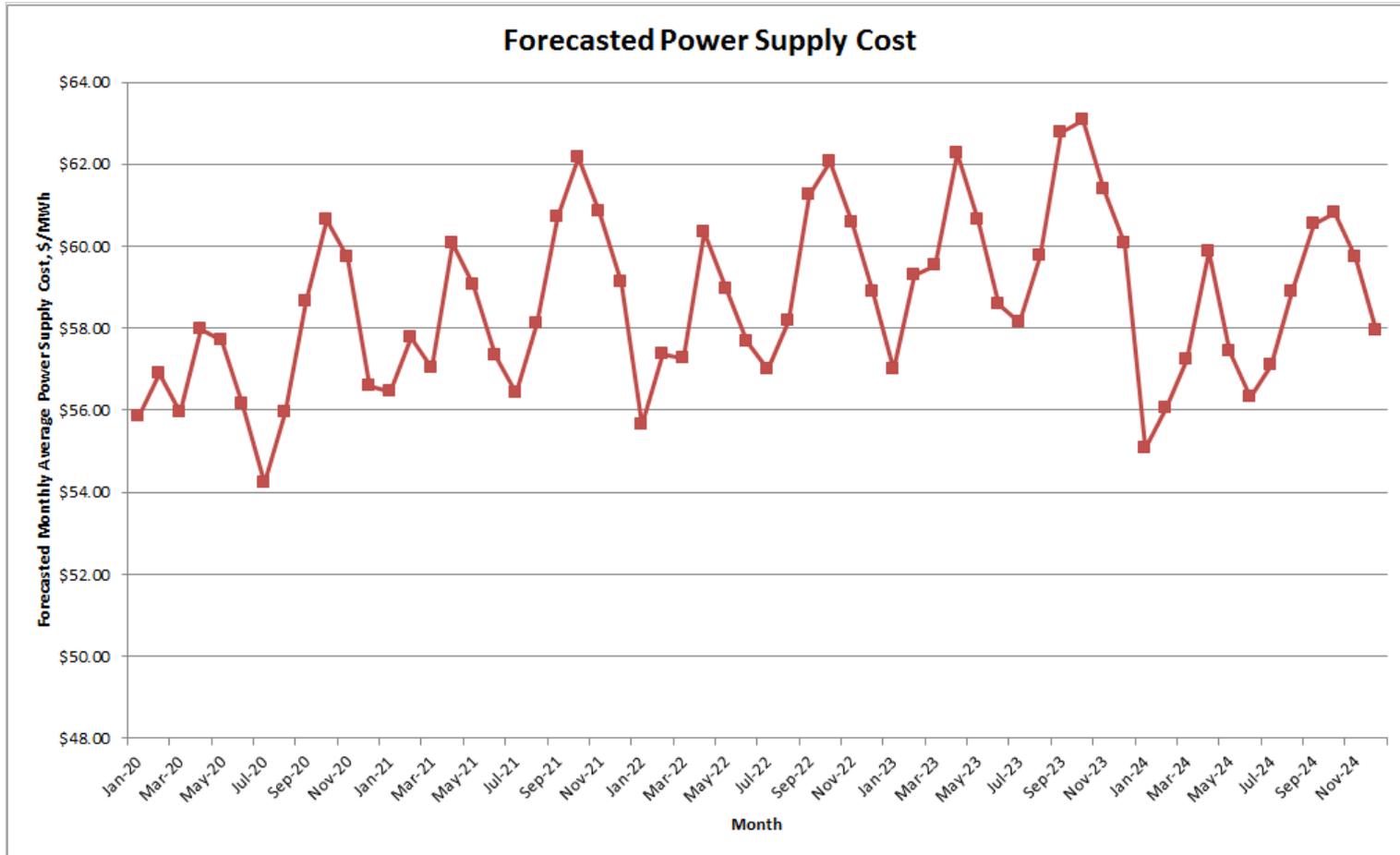
HEDGE PLAN COMPLIANCE



HEDGE PLAN COMPLIANCE

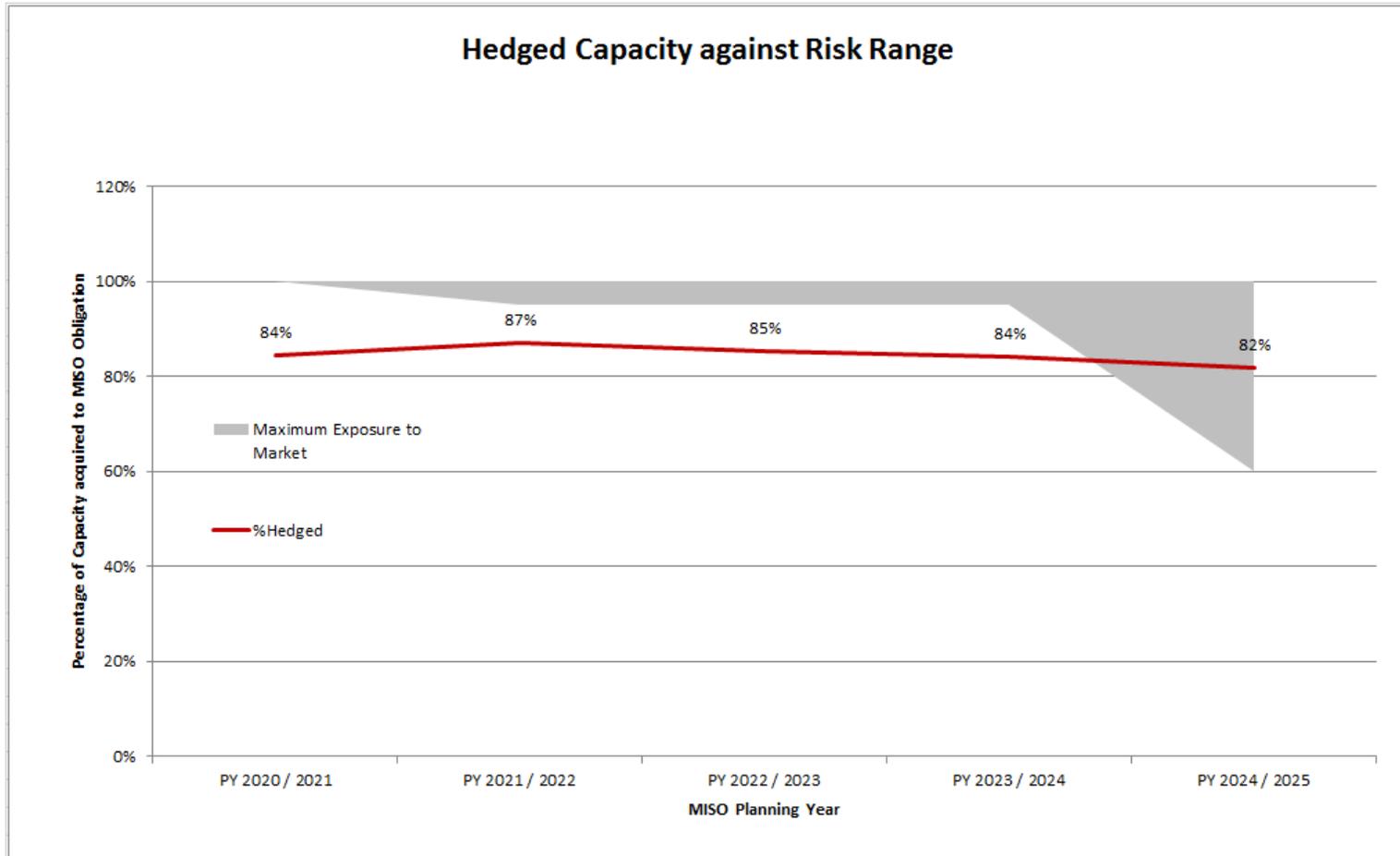


HEDGE PLAN COMPLIANCE



HEDGE PLAN COMPLIANCE

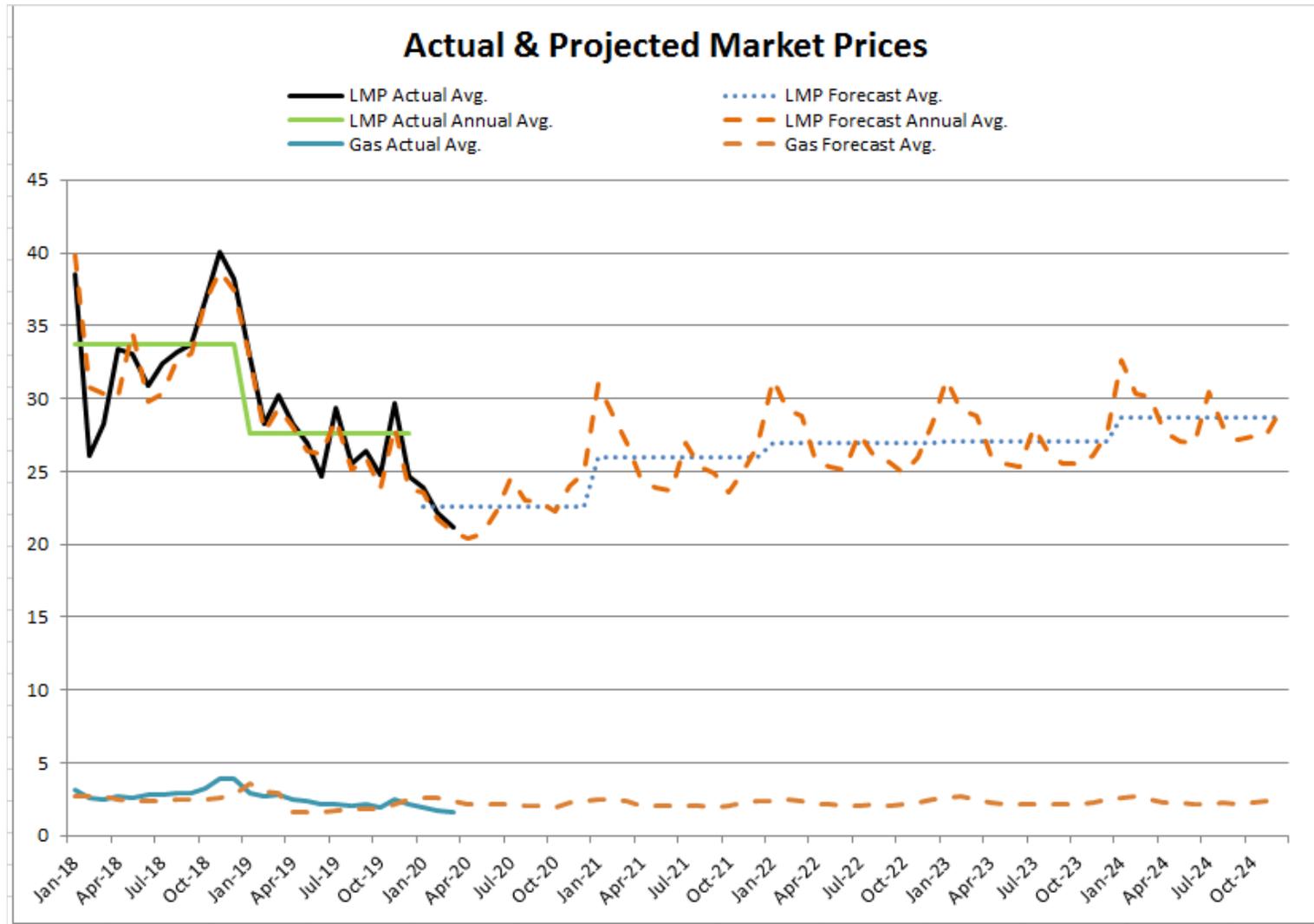
MISO Capacity



FUTURE PROJECTIONS

Future Projections

Market Price Forecast



CURRENT HEDGES EXECUTED

Current Hedges Executed

2020 Through 2024 Base Energy Transactions							
TradeDate	StartDate	EndDate	CounterParty	MW	Price	TotalMWh	TotalCost
2011-08-16	2020-01-01	2020-12-31	NextEra	0.3	\$58.59	2,635	\$154,396
2012-10-25	2020-01-01	2020-12-31	NextEra	0.1	\$50.32	878	\$44,201
2016-10-31	2020-01-01	2020-12-31	EXGN	0.2	\$33.20	1,757	\$58,326
2019-07-16	2020-01-01	2020-01-31	MCPI	0.4	\$33.35	298	\$9,925
2019-07-16	2020-02-01	2020-02-29	MCV	0.5	\$31.50	348	\$10,962
2019-07-16	2020-03-01	2020-03-31	EXGN	0.3	\$27.60	223	\$6,160
2020-02-24	2020-03-01	2020-03-31	MCV	0.1	\$23.00	74	\$1,711
2020-02-24	2020-04-01	2020-04-30	EXGN	0.1	\$24.10	72	\$1,735
2019-07-16	2020-05-01	2020-05-31	MCV	0.3	\$25.80	223	\$5,759
2019-07-16	2020-06-01	2020-06-30	EXGN	0.4	\$26.70	288	\$7,690
2020-02-27	2020-07-01	2020-07-31	MCV	0.1	\$26.65	74	\$1,983
2011-08-16	2021-01-01	2021-12-31	NextEra	0.3	\$60.35	2,628	\$158,600
2012-10-25	2021-01-01	2021-12-31	NextEra	0.1	\$51.83	876	\$45,403
2017-11-16	2021-01-01	2021-12-31	MCV	0.3	\$29.95	2,628	\$78,709
2011-08-16	2022-01-01	2022-12-31	NextEra	0.3	\$62.16	2,628	\$163,356
2012-10-25	2022-01-01	2022-12-31	NextEra	0.1	\$53.39	876	\$46,770
2018-10-18	2022-01-01	2022-12-31	MCV	0.2	\$29.04	1,752	\$50,878
2011-08-16	2023-01-01	2023-12-31	NextEra	0.3	\$64.02	2,628	\$168,245
2012-10-25	2023-01-01	2023-12-31	NextEra	0.1	\$54.99	876	\$48,171
2012-10-25	2024-01-01	2024-12-31	NextEra	0.1	\$56.64	878	\$49,753

CURRENT HEDGES EXECUTED

2020 Through 2024 Peak Energy Transactions							
TradeDate	StartDate	EndDate	CounterParty	MW	Price	TotalMWh	TotalCost
2012-10-25	2020-01-01	2020-12-31	NextEra	0.1	\$57.59	411	\$23,681
2019-07-16	2020-01-01	2020-01-31	MCV	0.4	\$37.10	1,408	\$52,237
2019-12-20	2020-01-01	2020-01-31	NextEra	0.9	\$33.45	317	\$10,597
2019-12-26	2020-01-10	2020-01-31	Westar	0.2	\$31.25	51	\$1,600
2019-07-16	2020-02-01	2020-02-29	SENA	0.2	\$35.45	64	\$2,269
2020-01-27	2020-02-01	2020-02-29	AEPEP	0.6	\$27.60	192	\$5,299
2019-07-16	2020-03-01	2020-03-31	EXGN	0.1	\$31.00	35	\$1,091
2019-07-16	2020-04-01	2020-04-30	AEPEP	0.2	\$31.25	70	\$2,200
2020-02-24	2020-04-01	2020-04-30	EXGN	0.2	\$26.50	70	\$1,866
2019-07-16	2020-05-01	2020-05-31	SENA	0.3	\$31.50	96	\$3,024
2020-02-24	2020-05-01	2020-05-31	EXGN	0.1	\$27.70	32	\$886
2019-07-16	2020-06-01	2020-06-30	SENA	0.3	\$31.70	106	\$3,348
2020-02-24	2020-06-01	2020-06-30	MCPI	0.1	\$27.60	35	\$972
2020-02-27	2020-07-01	2020-07-31	Evergy	2.1	\$31.90	773	\$24,652
2020-02-27	2020-08-01	2020-08-31	Evergy	1.9	\$30.05	638	\$19,184
2020-02-27	2020-09-01	2020-09-30	MCV	1.3	\$29.35	437	\$12,820
2020-02-28	2020-10-01	2020-10-31	NextEra	0.2	\$28.00	70	\$1,971
2020-02-28	2020-11-01	2020-11-30	NextEra	0.1	\$28.00	32	\$896
2012-10-25	2021-01-01	2021-12-31	NextEra	0.1	\$59.32	410	\$24,297
2012-10-25	2022-01-01	2022-12-31	NextEra	0.1	\$61.10	408	\$24,929
2012-10-25	2023-01-01	2023-12-31	NextEra	0.1	\$62.93	406	\$25,575
2012-10-25	2024-01-01	2024-12-31	NextEra	0.1	\$64.82	410	\$26,550

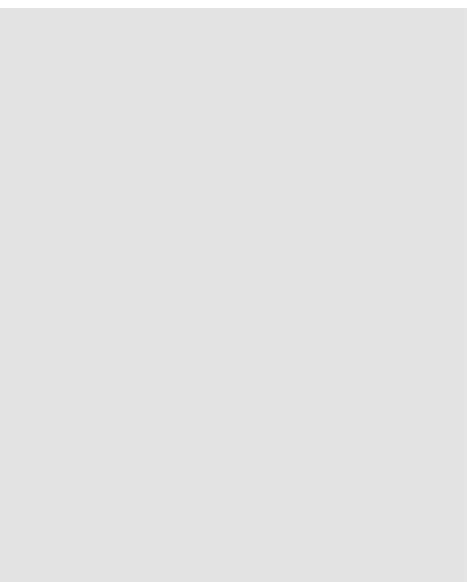
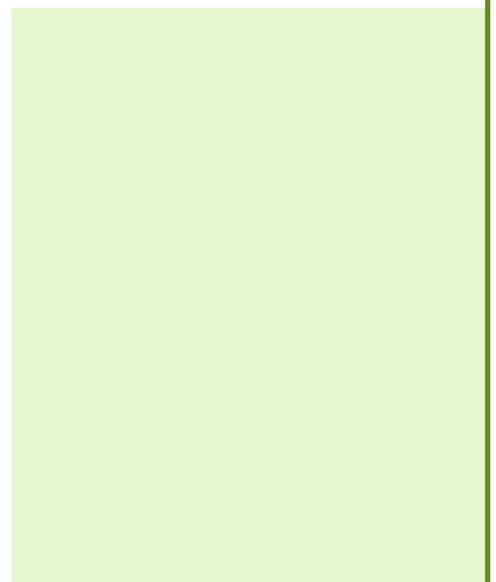
CURRENT HEDGES EXECUTED

2020 Through 2024 Capacity Transactions						
TradeDate	StartDate	EndDate	CounterParty	MW	Price	TotalCost
2015-02-23	2020-06-01	2021-05-31	CMS	0.5	\$3,400.00	\$20,400
2015-03-03	2020-06-01	2021-05-31	NextEra	0.2	\$4,000.00	\$9,600
2016-03-09	2020-06-01	2021-05-31	CMS	1.8	\$3,800.00	\$82,080
2017-02-22	2020-06-01	2021-05-31	HOLLAND	0.6	\$3,800.00	\$27,360
2015-02-23	2021-06-01	2022-05-31	CMS	0.5	\$3,400.00	\$20,400
2016-03-09	2021-06-01	2022-05-31	CMS	1.8	\$3,800.00	\$82,080
2018-02-01	2021-06-01	2022-05-31	HOLLAND	0.4	\$3,350.00	\$16,080
2018-02-01	2021-06-01	2022-05-31	Lansing	0.4	\$3,350.00	\$16,080
2019-12-20	2021-06-01	2022-05-31	Traverse City	0.1	\$2,750.00	\$3,300
2015-02-23	2022-06-01	2023-05-31	CMS	0.5	\$3,400.00	\$20,400
2016-03-09	2022-06-01	2023-05-31	CMS	1.8	\$3,900.00	\$84,240
2019-01-30	2022-06-01	2023-05-31	HOLLAND	0.1	\$3,000.00	\$3,600
2019-12-20	2022-06-01	2023-05-31	Traverse City	0.2	\$3,000.00	\$7,200
2015-02-23	2023-06-01	2024-05-31	CMS	0.5	\$3,400.00	\$20,400
2016-03-09	2023-06-01	2024-05-31	CMS	1.8	\$3,900.00	\$84,240
2019-12-20	2023-06-01	2024-05-31	HOLLAND	0.2	\$3,250.00	\$7,800
2015-02-23	2024-06-01	2025-05-31	CMS	0.5	\$3,400.00	\$20,400
2016-03-09	2024-06-01	2025-05-31	CMS	1.8	\$4,000.00	\$86,400



The City of Portland Operations & Maintenance Report

February 2020





June 16, 2020

S. Tutt Gorman, City Manager
City of Portland
259 Kent Street
Portland, MI 48775

RE: February 2020 Monthly Operation Report

Dear Mr. Gorman:

Attached is our Monthly Operation Report for the operation of the Wastewater Treatment Plant for the month of February 2020.

All information and data used to compile this report is available for your review. If you have any questions, please contact us. My phone number is 517-231-5773.

Sincerely,

F&V OPERATIONS AND RESOURCE MANAGEMENT, INC.

A handwritten signature in blue ink that reads "Roy K. Moss". The signature is written in a cursive style and is placed on a light blue rectangular background.

R. Keith Moss
Sr. Project Manager

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ADMINISTRATIVE REPORT

ADMINISTRATIVE

The February 2020 Discharge Monitoring Report (DMR) was submitted to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) on February 10, 2020. The average influent flow was 386,000 gallons per day. The daily maximum influent flow was 433,000 gallons, which occurred on February 4, 2020. The Monthly Operating Report (MOR) is in **Appendix A**.

As part of the Stormwater, Asset Management, and Wastewater (SAW) Program, F & V will be providing the City with a Capital Improvements Plan (CIP) and an Asset Management Plan (AMP) that should include most of the previous O&M Report's action items.

ACTION ITEMS

- Currently the City of Portland's WWTP is required to land apply biosolids three (3) times per year due to biosolids storage capacity limitations. EGLE requires a 180-day minimum bio solids storage capacity for compliance. Also, this frequency of land application does not coincide with normal agricultural spring and fall planting cycles, and there are recurring issues with farm field and land application contractor availability. A biosolids storage capacity study needs to be performed to develop the most cost-effective method to expand the biosolids storage capacity of WWTP.
- There is a copper issue in the City's biosolids. The analytical results are consistently above table three (3) limits. Table three's (3) maximum concentration limit (MCL) for copper is 1,500 micro-grams per liter (ug/L.) FVOP recommends investigating the issue further by performing additional collection system sampling and the non-domestic users complete a non-domestic user survey.

WASTEWATER MAINTENANCE

Maintenance was completed during the month of February 2020 in accordance with the computerized maintenance management system (CMMS.) The completed February 2020 completed work orders can be viewed in **Appendix B**.

OPERATIONS

- FVOP updated and submitted SARA Title III Tier II report to EGLE
- Accidental industrial discharge on 2/13/2020

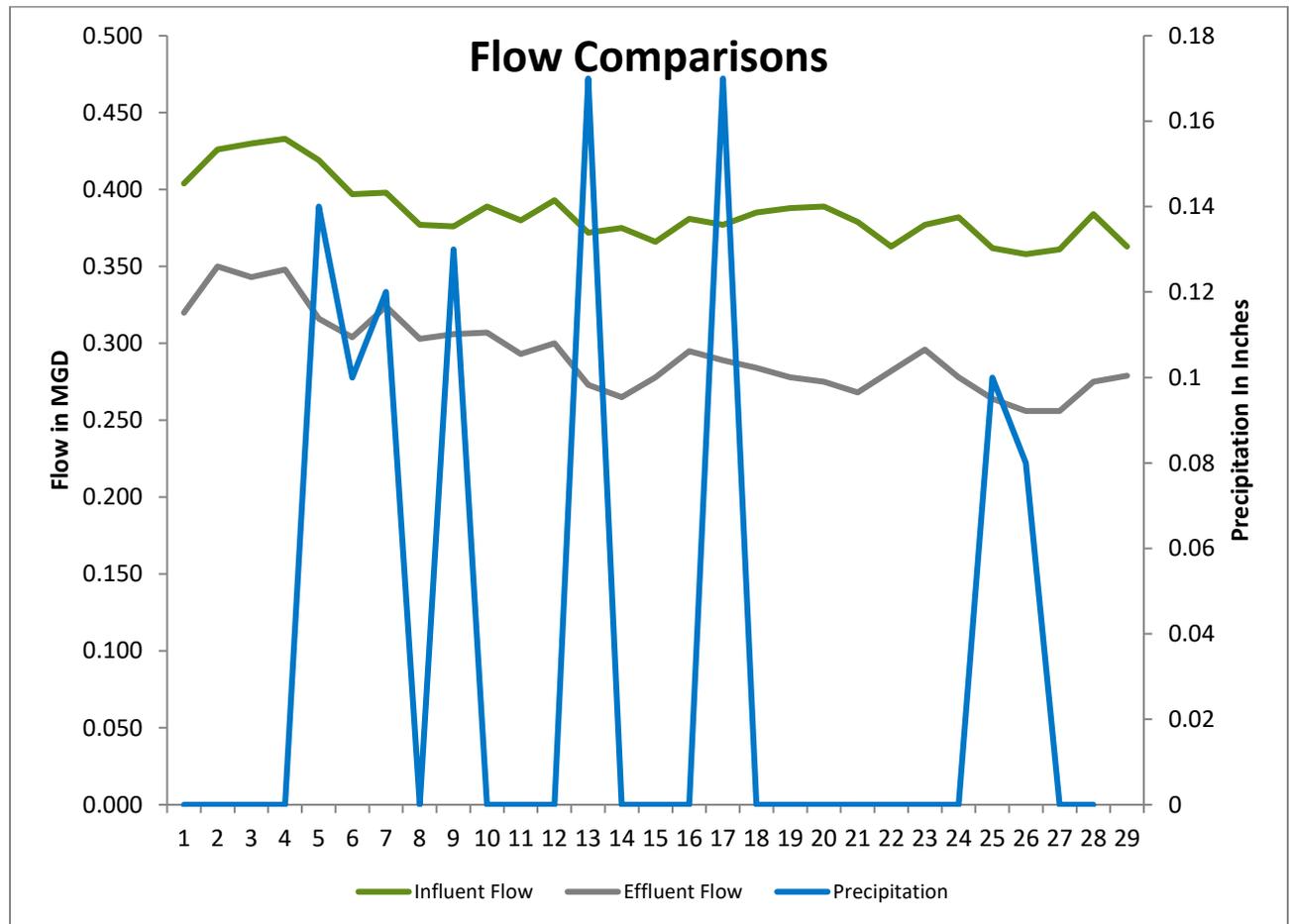
EMERGENCY ALARM CALL- OUTS

There was one after- hours emergency call outs during February 2020.

- On February 7, 2020, staff received an alarm for a Raw Pump failure at 11:07 PM. Upon arrival staff determined the pump's VFD was faulting due to high amperage. The pump was taken out of service, unclogged and restored to service the following day due to safety reasons.

DAILY FLOW SUMMARY

The wastewater flow was monitored using the facility's influent and effluent flow meters. The chart below shows the flow readings for the month of February 2020. The average influent flow during the period was 386,000 gallons per day and the average effluent flow during the period was 293,000 gallons per day. We had eight (8) days of precipitation which totaled 1.01 inches. The influent flow is higher than the effluent flow due to recycle flows that are metered twice.



APPENDIX "A"



City of Portland, Michigan

February 2020

FINAL EFFLUENT

DAY	CBOD -5					T.S.S					V.S.S	TOTAL PHOSPHORUS				pH	DO	FECAL			
	mg/l	mg/l	lbs/day	lbs	%	mg/l	mg/l	lbs/day	lbs	%		mg/l	mg/l	lbs/day	%			su	mg/l	COLIFORM	
		7-day		7-day	Rem.		7-day		7-day	Rem.					Rem.					cts/100 ml	7-day
		Avg		Avg			Avg		Avg												GEO
1																					
2																					
3																					
4	3.3		9.6		98	16.0		46.4		92	13.6	0.938	2.7	80	7.0	6	96				
5	3.1		8.2		99	2.0		5.3		99	0.8	0.825	2.2	81	7.0	6.1	76				
6	2.7		6.8		99	2.0		5.1		99	1.2	0.825	2.1	83	7.1	6.3	102				
7		3.0		8.2			6.7		18.9									91			
8		3.0		8.2			6.7		18.9									91			
9		3.0		8.2			6.7		18.9									91			
10		3.0		8.2			6.7		18.9									91			
11	3.0	2.9	7.3	7.4	99	1.2	1.7	2.9	4.4	99	0.8	0.672	1.6	84	7.7	7.4	86	87			
12	2.8	2.8	7.0	7.1	99	1.2	1.5	3.0	3.7	99	1.2	0.755	1.9	91	7.2	7.9	88	92			
13	3.7	3.2	8.4	7.6	99	4.0	2.1		3.0	98	2.0	0.795	1.8	85	7.1	8.4	83	86			
14		3.2		7.6			2.1		3.0									86			
15		3.2		7.6			2.1		3.0									86			
16		3.2		7.6			2.1		3.0									86			
17		3.2		7.6			2.1		3.0									86			
18	3.5	3.3	8.3	7.9	99	1.2	2.1	2.8	2.9	100	0.8	0.260	0.6	95	7.3	6.3	124	97			
19	3.4	3.5	7.9	8.2	99	1.2	2.1	2.8	2.8	99	0.8	0.507	1.2	89	7.4	8.8	114	105			
20	3.2	3.4	7.3	7.8	99	4.0	2.1	9.2	4.9	98	2.8	0.930	2.1	81	7.1	6.6	90	108			
21		3.4		7.8			2.1		4.9									108			
22		3.4		7.8			2.1		4.9									108			
23		3.4		7.8			2.1		4.9									108			
24		3.4		7.8			2.1		4.9									108			
25	3.4	3.3	7.5	7.6	99	7.2	4.1	15.9	9.3	97	4.4	0.745	1.6	90	6.9	6.5	104	102			
26	2.8	3.1	6.0	6.9	99	5.2	5.5	11.1	12.0	95	2.0	0.905	1.9	84	7.1	6.5	160	114			
27	3.4	3.2	7.3	6.9	99	10.4	7.6	22.2	16.4	96	3.2	0.928	2.0	83	7.2	8.1	164	140			
28		3.2		6.9			7.6		16.4									140			
29		3.2		6.9			7.6		16.4									140			
M/M																					
TL																					
GA																					
ME	3.2		7.6		99	4.6		11.5		98	2.8	0.76	1.8	86		7.1	104.1				
WGA																					
WA																					
M/M = Maximum/Minium; TL = Total; GA = Geometric Average; ME = Mean Average; WGA = Weighted Geometric Average; WA = Weighed																					
REMARKS:																					

Total pounds are the multiplication of the monthly average by the number of days in the month.

City of Portland, MI

February 2020

ACTIVATED SLUDGE

DAY	Aeration Volume	Detent. Time	CRT Days	Organic Loading	MLSS	MLVSS	SETT.	SVI	DO	AIR SUPPLY	RASS	RASVS	WAS	WAS	Return Flow	Air Volume
	KCF	Hours		F/M	mg/l	mg/l	%		mg/l	CuFt./D	g/100 ml	g/100 ml	gal	lbs	(RAS)	
1	24	6.0	11.7		1982		34	171	2.1	1.44	0.3550		8.51	252	0.311	10
2	24	5.9	13.7		2262		37	163	2.1	1.44	0.3450		8.57	247	0.300	10
3	24	5.8	4.4		2459		36	146	2.1	1.44	0.5340		18.56	827	0.313	10
4	24	6.1	3.7	0.30	2419	1865	38	157	2.4	1.44	0.5783	0.4099	20.19	974	0.272	10
5	24	6.0	5.1	0.31	2433	1887	40	164	3.1	1.44	0.4260	0.3291	19.88	706	0.295	10
6	24	6.3	4.6	0.33	2190	1695	39	178	2.9	1.44	0.4719	0.3457	18.00	708	0.283	10
7	24	6.6	8.2		2338		42	180	8.0	1.44	0.4760		10.72	426	0.256	10
8	24	6.8	9.5		2300		38	165	2.5	1.44	0.5165		8.40	362	0.255	10
9	24	6.9	10.7		2452		46	188	2.8	1.44	0.4891		8.40	343	0.243	10
10	24	6.7	4.8		1969		50	254	1.6	1.44	0.5494		13.47	617	0.248	10
11	24	6.8	5.0	0.23	2660	2054	53	199	4.2	1.44	0.6403	0.5153	15.00	801	0.251	10
12	24	6.3	5.5	0.45	2658	2046	49	184	2.7	1.44	0.5600	0.4430	15.50	724	0.289	10
13	24	6.3	5.9	0.36	2664	1881	47	191	5.1	1.44	0.4991	0.3883	16.21	675	0.311	10
14	24	6.4	4.5		2585		44	170	4.0	1.44	0.5151		20.10	863	0.298	10
15	24	6.4	12.7		2365		50	211	4.2	1.44	0.3981		8.40	279	0.306	10
16	24	6.1	15.0		2583		49	190	4.6	1.44	0.3669		8.39	257	0.323	10
17	24	6.1	13.3		2719		50	184	4.2	1.44	0.4361		8.39	305	0.328	10
18	24	6.0	5.2	0.41	2828	2130	54	191	3.8	1.44	0.4885	0.3871	20.11	819	0.331	10
19	24	6.1	5.2	0.37	2854	2130	55	193	2.8	1.44	0.4700	0.3654	20.74	813	0.313	10
20	24	6.1	4.6	0.55	2190	1689	40	183	2.5	1.44	0.4084	0.3201	20.70	705	0.314	10
21	24	6.4	4.3		2267		45	198	2.4	1.44	0.3370		28.16	791	0.295	10
22	24	6.1	17.1		2347		40	170	2.8	1.44	0.2860		8.60	205	0.336	10
23	24	6.0	11.5		2332		38	163	2.8	1.44	0.3827		9.50	303	0.343	10
24	24	6.0	5.1		2684		45	168	3.0	1.44	0.4611		20.45	786	0.340	10
25	24	6.3	5.2	0.43	2319	1760	42	181	4.5	1.44	0.3810	0.2709	21.14	672	0.318	10
26	24	6.3	5.3	0.27	2431	1883	38	156	3.2	1.44	0.3972	0.2861	20.50	679	0.320	10
27	24	6.4	5.0	0.43	2381	1785	34	143	3.0	1.44	0.4152	0.3191	20.62	714	0.315	10
28	24	6.1	5.3		2213		40	181	3.4	1.44	0.3235		23.13	624	0.316	10
29	24	6.3	18.6		3052		34	111	2.0	1.44	0.3503		8.40	245	0.322	10
TL													448.74	16723	8.745	
ME	24	6.3	8.0	0.37	2446	1900	43	177	3.3	1.44	0.4434	0.3650	15.47	539	0.302	
REMARKS:																

Total lbs are figured by multiplying the monthly average by the number of days in the month.

City of Portland, MI

February 2020

MISCELLANEOUS DATA

DAY	OUTFALL	GRIT	NAT.	ELECT.	ELECT.	ELECT.	ELECT	FERROUS	Polymer
	OBSERVATION		GAS	WWTP	Riverside	Canal	Cutler	CHLORIDE	Sludge
					Lift Stat.	Lift Stat.	Lift Stat.		Thickener
	yes/no	cf	cf	kwh	kwh	kwh	kwh	lbs	lbs
SF				1					
1			21	128				9	7.0
2			21	152				9	6.0
3			11	136		9	49	9	17.0
4	n/v		31	144	26			17	22.0
5	n/v		20	144	38	10	48	17	22.0
6	n/v		26	144				17	16.0
7			22	112				17	7.0
8			27	144				17	8.0
9			30	152	52	13		17	8.0
10			22	128				17	13.0
11	n/v	40.5	25	144	32	11	126	17	13.0
12	n/v		23	136			122	17	12.0
13	nv		26	144				17	20.0
14			22	136				17	24.0
15			26	136				17	3.0
16			27	152	109			17	8.0
17			25	136		37	31	17	6.0
18	nv		26	152				21	21.0
19	nv		23	136				21	20.0
20	nv		29	120	58	18	84	13	22.0
21			24	144	45	15	70	13	38.0
22			24	168				13	8.0
23			21	128				13	26.0
24			21	136		10	103	13	22.0
25	nv		21	144	26			13	22.0
26	nv		34	144	40	9		13	21.0
27	nv		41	120				13	22.0
28			20	120		14		13	25.0
29		27.0	28	136				13	6.0
TL		67.5	717.0	4016	426	146	633	437	465.0
ME		33.8	25	138	47	15	79	15	16.0
	REMARKS:								

Total lbs are figured by multiplying the monthly average by the number of days in the month.

City of Portland, MI

February 2020

DIGESTER BIOSOLIDS

SF DAY	RAW SLUDGE						BIOSOLIDS							
	Amt.	Percent	Digester	Digester	PH	TEMP.	SLUDGE	PH	T. S.	V. S.	VA/TA	VOLATILE	GAS	
	Pumped	Total	% Vol.	Loading			TEMP.				RATIO	SOLIDS	Produced	
	gal	Solids	Solids	lbs/1000 cuft.		C.	C.		%	%		REDUCTION	CuFt X 100	
1	361												28	
2	304												22	
3	1387	7.3	76	0.04	6.8	14.2	29.1	7.0	1.5	63	0.25	46	28	
4	1444												35	
5	1273												35	
6	1197	7.4	79		6.9	11.4	25.0	7.0	1.9	67		46	38	
7	1083												32	
8	931												30	
9	988												29	
10	1900	7.1	77	0.06	7.2	14.1	27.5	7.1	1.4	62	0.1	51	32	
11	2527												33	
12	1976												34	
13	1976												34	
14	3553												36	
15	817												32	
16	912												32	
17	1121												48	
18	3572	6.8	79	0.10	7.1	13.3	25.9	7.2	1.4	62	0.05	57	28	
19	4009												34	
20	2869	6.5	79	0.08	7.2	12.9	28.6	7.1	1.4	62	0.13	57	32	
21	3762												40	
22	950												33	
23	1235												29	
24	2964	7.1	78	0.09	6.9	13.0	29.1	7.0	1.6	63	0.14	52	34	
25	2850												42	
26	2698												35	
27	2166	6.6	76		6.8	12.9	28.1	6.9	1.4	62	0.12	48	33	
28	3097												31	
29	456													
TL	54378												929	
ME	1926	7.0	78	0.07	7.0	13.1	27.6	7.0	1.5	63		51	33	
	REMARKS:	Loading Rate = .02 -.10 lb/cu. ft.												

Digester Volume:
 Primary: 14700
 Secondary: 14700

Process Pattern:
 Primary, Secondary, Land Application

City of Portland, MI

February 2020

SOLIDS DISPOSAL

DAY	SUPERNATANT							BIOSOLIDS DISPOSAL				SITE #	DRY TONS APPLIED.
	AMT.	PH	TOTAL	VOL.	SUSP.	Phosp.	PHOSP.	SOLIDS	AMOUNT	TOTAL	VOL.		
			SOLIDS	SOLIDS	SOLIDS			TO BED	HAULED	SOLIDS	SOLIDS		
	gal.		%	%	mg/l	mg/l	lbs	lbs	gal	%	%		
1	3198							0.0					
2	3198							0.0					
3	3198							0.0					
4	3198							0.0					
5	3198							0.0					
6	3198							0.0					
7	3198							0.0					
8	3198							0.0					
9	3198							0.0					
10	3198							0.0					
11	0							0.0					
12	0							0.0					
13	0							0.0					
14	0							0.0					
15	0							0.0					
16	0							0.0					
17	3198							0.0					
18	3198							0.0					
19	3198							0.0					
20	3198							0.0					
21	0							0.0					
22	0							0.0					
23	0							0.0					
24	3198							0.0					
25	3198							0.0					
26	0							0.0					
27	1066							0.0					
28	0							0.0					
29	0							0.0					
30	0							0.0					
31	0							0.0					
TL	49036							0.0	0				
ME	75953												

Supernatant to drying beds or storage tank and cycled back to plant headworks.
 Biosolids to farm land and landfill.

APPENDIX “B”



Completed	Equipment Number	Task	WO #	Type
2/3/2020	DB-301	Weekly Inspection of the Sludge Recirculation Pumps	1121.01	Scheduled
Note	Task complete. TK			
2/3/2020	Aeration Tanks	Weekly Aeration & Diffuser Maintenance	1109.01	Scheduled
Note	Purged diffusers and reset the butterfly valves to normal operating position. TK			
2/3/2020	Secondary Clarifiers West & East	Secondary Clarifier Cleaning	1112.01	Scheduled
Note	Hosed the weirs, baffles, launder and inner ring down. TK			
2/3/2020	AT-101	Weekly Surface Mixer Inspection & Maintenance	1110.01	Scheduled
Note	Sprayed the froth down, task complete. TK			
2/3/2020	UV-100	Weekly UV Maintenance	1135.01	Scheduled
Note	Task complete. Turned off Bank "B" due to low fecal counts. TK			
2/4/2020	SB-202	Weekly NP Booster System Maintenance	1124.01	Scheduled
Note	No unusual noise or vibrations. Bleed the air from the system and cleaned the strainer. TS			
2/4/2020	SB-201	Weekly Composite Sampler Maintenance	1127.01	Scheduled
Note	Task complete. TK			
2/5/2020	DB-200	Weekly Gas Mixer Maintenance	1116.01	Scheduled
Note	V-belts and oil level ok, no unusual noise or vibration. TS			
2/5/2020	GB-104	Weekly Grit Classifier Maintenance	1119.01	Scheduled
Note	Removed scum build up from classifier, oil level ok, safety cover in place, and no unusual noise or vibrations, indicator lights are working. TS			
2/5/2020	Digester Building Basement	Weekly Digester Building Housekeeping	1099.01	Scheduled
Note	Lighting is ok, swept, sump pumps are operational. TS			
2/5/2020	AT-105	Weekly D.O Sensor Maintenance	1113.01	Scheduled
Note	Task complete. TK. CSM tested the LDO meter in the aeration tank with the D.O reading of the handheld D.O meter and they were fairly close. CSM/ TK			
2/5/2020	Headworks Building	Weekly Headworks Housekeeping	1098.01	Scheduled
Note	Hosed down floors, MUA-1 is operating properly, lighting ok. TS			
2/5/2020	Ferrous Room	Weekly Ferrous Feed Room Housekeeping	1100.01	Scheduled
Note	Swept and organized. TS			
2/5/2020	Bathroom	Weekly Bathroom/Locker Room Housekeeping	1111.01	Scheduled
Note	Swept, cleaned the sink and toilet. TS			
2/5/2020	Gas Mixing Room	Weekly Gas Mixing Room Housekeeping	1117.01	Scheduled
Note	Room in good condition. Task complete. TS			
2/5/2020	Boiler Room	Boiler Room Housekeeping	1120.01	Scheduled
Note	Room in good condition, task complete. TS			
2/5/2020	Laboratory/ Office	Laboratory Housekeeping	1122.01	Scheduled
Note	Swept, emptied trash, cleaned counters, and lighting is ok with the exception of the emergency light and that is ordered. TS			
2/5/2020	Service Building 3rd Floor	Service Building 3rd Floor Housekeeping	1130.01	Scheduled
Note	Lighting ok, floors cleaned. TS			
2/5/2020	Service Building 2nd Floor	Weekly Service Building 2nd Floor Housekeeping	1129.01	Scheduled
Note	Swept, hosed the floor and lighting is ok. TS			
2/5/2020	Service Building 1st Floor	Service Building 1st Floor Housekeeping	1128.01	Scheduled
Note	Swept, task complete. TS			
2/5/2020	TB-100	Weekly Thickener Building Housekeeping	1131.01	Scheduled
Note	Lighting ok, mopped the floor, and removed the cob webs. TK			
2/5/2020	TB-104	Weekly Charter Thckener Maintenance	1132.01	Scheduled
Note	No unusual noise or vibrations; oil in range, wear rings nearing the end; lighting ok, greased, spray nozzles cleaned and polymer media is ok; TK			
2/5/2020	UIS Cruise Scada Alarm System	Weekly Alarm System Testing	1134.01	Scheduled
Note	Test with a high influent channel level and the alarm displayed on the PLC, but we found that it wasnt connected to the Cruise Alarm System. TS			

Completed	Equipment Number	Task	WO #	Type
2/5/2020	GB-101	Weekly Fine Maintenance	1126.01	Scheduled
Note	No unusual noise or vibrations; Raptor still needs weld repairs; Solenoids in working order; removed excess debris from the auger. The E-Stop was bumped and we did get an alarm to the PLC. TS			
2/6/2020	LB-129	Weekly Vacuum Pump Maintenance	1125.01	Scheduled
Note	Task complete. TS			
2/6/2020	Process Blowers	Weekly Grit & Aeration Blower Maintenance	1118.01	Scheduled
Note	Oil in range; V-belts are good; TK			
2/6/2020	LB-131	Monthly LB-131 Water Heater Maintenance	1107.01	Scheduled
Note	Drained 2 gallons from water heater, no sediments visible. CM			
2/6/2020	AT-101	Monthly Anoxic Surface Mixer Maintenance	1101.01	Scheduled
Note	No unusual noise or vibrations; cables in working order; amps were 6.6, 6.3, 6.5. TK/CM			
2/6/2020	Tool Room	Weekly Storage Room.	1133.01	Scheduled
Note	Task complete. TS			
2/6/2020	LB-125	Weekly Eyewash & Shower Exercise	1115.01	Scheduled
Note	Task complete, TK			
2/6/2020	SA-102	Portland Monthly Emergency Lighting Checks	1102.01	Scheduled
Note	TS/TK replaced the inoperable E-light in the laboratory. The headworks building is inoperable and is being addressed. The rest of the lights are operational.			
2/6/2020	Laboratory QA/QC Program	Weekly Lab Analysis Checks	1123.01	Scheduled
Note	BOD glucose and duplicate analysis was started and TSS duplicate was completed. TS			
2/6/2020	FC-100	Weekly East & West Secondary Clarifier Maintenance	1114.01	Scheduled
Note	No unusual noise or vibration, drained condensation from each worm gear, skimmer arms and drive appear to be operating correctly. TK/TS			
2/10/2020	Laboratory & Sampler Thermometers	Annual Replacement of Thermometers	1073.01	Scheduled
Note	Replaced the thermometers that assist with validating QA/QC for lab analysis. CM			
2/10/2020	SB-300	Monthly Influent Pump Maintenance	1072.01	Scheduled
Note	LOTO the equipment, pulled and unclogged all three of the influent pumps and check valves. TK/TS			
2/10/2020	Digester Building Basement	Weekly Digester Building Housekeeping	1137.01	Scheduled
Note	Lighting is ok, swept, sump pumps are operational, cleaned the slop sink.. TS			
2/10/2020	DB-200	Weekly Gas Mixer Maintenance	1147.01	Scheduled
Note	V-belts and oil level ok, no unusual noise or vibration. TS			
2/10/2020	GB-104	Weekly Grit Classifier Maintenance	1150.01	Scheduled
Note	Removed scum build up from classifier, oil level ok, safety cover in place, and no unusual noise or vibrations, indicator lights are working. TK			
2/10/2020	LB-129	Weekly Vacuum Pump Maintenance	1156.01	Scheduled
Note	Task complete. TS			
2/10/2020	Service Building 3rd Floor	Service Building 3rd Floor Housekeeping	1161.01	Scheduled
Note	Lighting ok, floors cleaned after unclogging the raw pumps.. TS			
2/10/2020	Service Building 2nd Floor	Weekly Service Building 2nd Floor Housekeeping	1160.01	Scheduled
Note	Swept, hosed the floor and lighting is ok. TS			
2/10/2020	Service Building 1st Floor	Service Building 1st Floor Housekeeping	1159.01	Scheduled
Note	Swept, task complete. TS			
2/10/2020	Tool Room	Weekly Storage Room.	1164.01	Scheduled
Note	Task complete. TS			
2/10/2020	UV-100	Weekly UV Maintenance	1166.01	Scheduled
Note	Task complete. Turned off Bank "B" due to low fecal counts. TK/ TS			
2/10/2020	AT-101	Weekly Surface Mixer Inspection & Maintenance	1141.01	Scheduled
Note	Sprayed the froth down, task complete. TK			
2/10/2020	Gas Mixing Room	Weekly Gas Mixing Room Housekeeping	1148.01	Scheduled
Note	Room in good condition. Task complete. TS			

Completed	Equipment Number	Task	WO #	Type
2/10/2020	Boiler Room	Boiler Room Housekeeping	1151.01	Scheduled
Note	Room in order, lighting is ok, task complete. TS			
2/10/2020	TB-104	Weekly Charter Thckener Maintenance	1163.01	Scheduled
Note	No unusual noise or vibrations; oil in range, wear rings nearing the end; lighting ok, greased, spray nozzles cleaned and polymer media is needs to be cleaned; TK			
2/10/2020	UIS Cruise Scada Alarm System	Weekly Alarm System Testing	1165.01	Scheduled
Note	Tested with raw pump failure and it caled accordingly. TK			
2/10/2020	DB-301	Weekly Inspection of the Sludge Recirculation Pumps	1152.01	Scheduled
Note	Task complete. TK			
2/10/2020	GB-101	Weekly Fine Maintenance	1157.01	Scheduled
Note	No nusual noise or vibrations; Raptor still needs weld repairs; Solenoids in working order; removed excess debris from the auger. Removed the broken bar and replaced it with threaded rod so the rake comb stop is in working order TS/TK			
2/10/2020	Secondary Clarifiers West & East	Secondary Clarifier Cleaning	1143.01	Scheduled
Note	Hosed the weirs, baffles, launder and inner ring down. TS			
2/11/2020	SB-202	Weekly NP Booster System Maintenance	1155.01	Scheduled
Note	No unusual noise or vibrations. Bleed the air from the system and cleaned the strainer. TS			
2/11/2020	AT-105	Weekly D.O Sensor Maintenance	1144.01	Scheduled
Note	Task complete. TK. CSM tested the LDO meter in the aeration tank with the D.O reading of the handheld D.O meter and they were fairly close. We will be ordering a new LDO cap soon. TS/ CM/ TK			
2/11/2020	SB-201	Weekly Composite Sampler Maintenance	1158.01	Scheduled
Note	Cleaned interior and exterior and temps are within range. TS			
2/11/2020	Ferrous Room	Weekly Ferrous Feed Room Housekeeping	1138.01	Scheduled
Note	Hosed down and cleaned the floor. TS			
2/11/2020	Aeration Tanks	Weekly Aeration & Diffuser Maintenance	1140.01	Scheduled
Note	Purged diffusers and reset the butterfly valves to normal operating position. TS			
2/11/2020	Laboratory/ Office	Laboratory Housekeeping	1153.01	Scheduled
Note	Swept and cleaned the counters. TK			
2/12/2020	Bathroom	Weekly Bathroom/Locker Room Housekeeping	1142.01	Scheduled
Note	Cleaned toilet and sink. CSM			
2/13/2020	Headworks Building	Weekly Headworks Housekeeping	1136.01	Scheduled
Note	Hosed down floors, MUA-1 is operating properly, and lights inspected, lighting ok. Cleaned the floor again after the foam from the soap discharge got on the floor. Floor drains need to be unclogged next week.TS/TK			
2/14/2020	Process Blowers	Weekly Grit & Aerartion Blower Maintenance	1149.01	Scheduled
Note	Oil in range; V-belts are good; TK/TS			
2/14/2020	FC-100	Weekly East & West Secondary Clarifier Maintenance	1145.01	Scheduled
Note	No unusal noise or vibration, drained condensation from each worm gear, skimmer arms and drive appear to be operating correctly. TK/TS			
2/14/2020	TB-100	Weekly Thickener Building Housekeeping	1162.01	Scheduled
Note	Lighting ok, mopped the floor, and removed the cob webs. TK/TS			
2/14/2020	LB-125	Weekly Eyewash & Shower Exercise	1146.01	Scheduled
Note	Task complete, TK			
2/14/2020	Laboratory QA/QC Program	Weekly Lab Analysis Checks	1154.01	Scheduled
Note	pH and fecal duplicates were performed and charted and graphed. TK			
2/16/2020	UIS Cruise Scada Alarm System	Weekly Alarm System Testing	1196.01	Scheduled
Note	Tested with a blower fail and Cutler Rd. Lift Station powerfailure. TK			
2/18/2020	Digester Building Basement	Weekly Digester Building Housekeeping	1168.01	Scheduled
Note	Lighting is ok, swept, sump pumps are operational, cleaned the slop sink.. TS			
2/18/2020	SB-201	Weekly Composite Sampler Maintenance	1189.01	Scheduled
Note	Cleaned interior and exterior and temps are within range. TS			
2/18/2020	Ferrous Room	Weekly Ferrous Feed Room Housekeeping	1169.01	Scheduled
Note	Task complete. TS			

Completed	Equipment Number	Task	WO #	Type
2/19/2020	LB-129	Weekly Vacuum Pump Maintenance	1187.01	Scheduled
Note	Task complete. TK			
2/19/2020	SB-202	Weekly NP Booster System Maintenance	1186.01	Scheduled
Note	No unusual noise or vibrations. NO air from the system this week and cleaned the strainer. TS			
2/19/2020	GB-104	Weekly Grit Classifier Maintenance	1181.01	Scheduled
Note	Removed scum build up from classifier, oil level ok, safety cover in place, and no unusual noise or vibrations, indicator lights are working. TK			
2/19/2020	Process Blowers	Weekly Grit & Aerartion Blower Maintenance	1180.01	Scheduled
Note	Oil in range; V-belts are good; #2 blower faults when it is in lag and runs fine if its lead.TK/TS			
2/19/2020	DB-200	Weekly Gas Mixer Maintenance	1178.01	Scheduled
Note	V-belts and oil level ok, no unsuual noise or vibration. TS			
2/19/2020	Tool Room	Weekly Storage Room.	1195.01	Scheduled
Note	Task complete. TS			
2/19/2020	TB-104	Weekly Charter Thckener Maintenance	1194.01	Scheduled
Note	No unusual noise or vibrations; oil in range, wear rings nearing the end; lighting ok, greased bearings, spray nozzles cleaned and polymer media is needs to be cleaned; TS			
2/19/2020	TB-100	Weekly Thickener Building Housekeeping	1193.01	Scheduled
Note	Lighting ok, mopped the floor, and removed the cob webs. TK/TS			
2/19/2020	Service Building 3rd Floor	Service Building 3rd Floor Housekeeping	1192.01	Scheduled
Note	Lighting ok, floors cleaned after unclogging the raw pumps.. TS			
2/19/2020	Service Building 2nd Floor	Weekly Service Building 2nd Floor Housekeeping	1191.01	Scheduled
Note	Swept, hosed the floor and lighting is ok. TS			
2/19/2020	Service Building 1st Floor	Service Building 1st Floor Housekeeping	1190.01	Scheduled
Note	Swept, task complete. TS			
2/19/2020	GB-101	Weekly Fine Maintenance	1188.01	Scheduled
Note	No nusual noise or vibrations; Raptor still needs weld repairs; Solenoids in working order; removed excess debris from the auger.TS			
2/19/2020	Laboratory/ Office	Laboratory Housekeeping	1184.01	Scheduled
Note	Swept and cleaned the counters. TK			
2/19/2020	DB-301	Weekly Inspection of the Sludge Recirculation Pumps	1183.01	Scheduled
Note	#1 in service, safety screens in place, packing glands are ok. No unusual noise or vibrations. TS			
2/19/2020	Boiler Room	Boiler Room Housekeeping	1182.01	Scheduled
Note	Room in order, lighting is ok, task complete. TS			
2/19/2020	Gas Mixing Room	Weekly Gas Mixing Room Housekeeping	1179.01	Scheduled
Note	Room in good condition. Task complete. TS			
2/19/2020	LB-125	Weekly Eyewash & Shower Exercise	1177.01	Scheduled
Note	Task complete, TK			
2/19/2020	FC-100	Weekly East & West Secondary Clarifier Maintenance	1176.01	Scheduled
Note	No unusal noise or vibration, drained condensation from each worm gear, skimmer arms and drive appear to be operating correctly. TS			
2/19/2020	Bathroom	Weekly Bathroom/Locker Room Housekeeping	1173.01	Scheduled
Note	Cleaned toilet and sink. TK/TS			
2/19/2020	AT-101	Weekly Surface Mixer Inspection & Maintenance	1172.01	Scheduled
Note	No unusual noise or vibrations, power cable ok, and hardware is connected tightly. TS			
2/19/2020	Aeration Tanks	Weekly Aeration & Diffuser Maintenance	1171.01	Scheduled
Note	No condensation bumped the diffusers. TS			
2/19/2020	Headworks Building	Weekly Headworks Housekeeping	1167.01	Scheduled
Note	Floor drain needs to be unclogged, MUA-1 and lighting are ok. TS			
2/20/2020	GB-101	Monthly Fine Screen Maintenance	1106.01	Scheduled
Note	Task complete. TK			

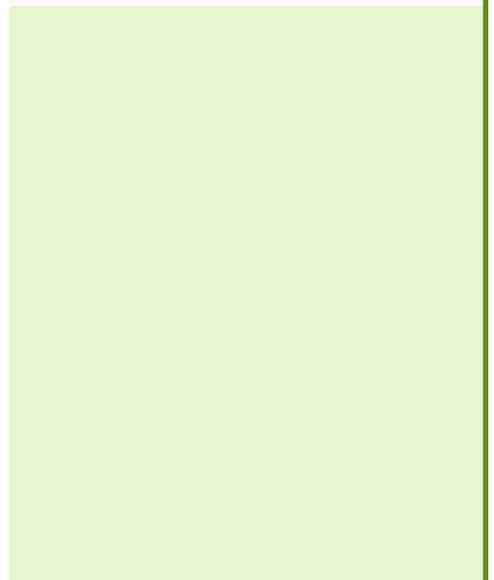
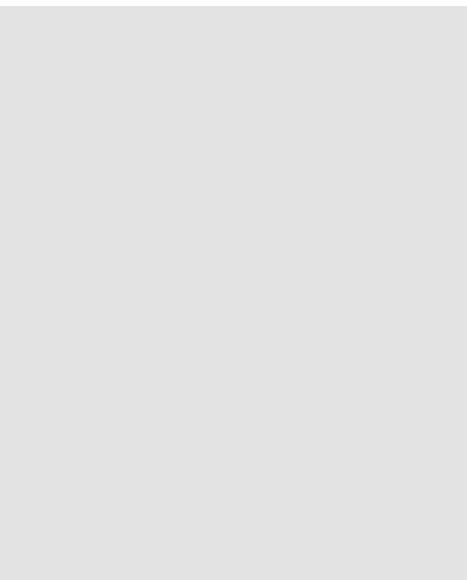
Completed	Equipment Number	Task	WO #	Type
2/20/2020	DB-301	Monthly Greasing of the Sludge Recirculation Pumps	1139.01	Scheduled
Note	Greased #1 & #2 recirc pumps; no unusual noise or vibrations. TK			
2/20/2020	Laboratory QA/QC Program	Weekly Lab Analysis Checks	1185.01	Scheduled
Note	TP duplicate and spike analysis performed and it was charted and graphed. TK			
2/20/2020	AT-105	Weekly D.O Sensor Maintenance	1175.01	Scheduled
Note	New RDO cap is in and we will replace when it warms up a little. Compared the RDO reading to the handheld LDO meter and the readings were close to the same. Task complete. CSM			
2/20/2020	Secondary Clarifiers West & East	Secondary Clarifier Cleaning	1174.01	Scheduled
Note	Hosed the weirs, baffles, launder and inner ring down. TS			
2/21/2020	UV-100	Weekly UV Maintenance	1197.01	Scheduled
Note	Lamps are working only using one bank due to low fecal coliform counts. TS/TK			
2/24/2020	GB-104	Weekly Grit Classifier Maintenance	1215.01	Scheduled
Note	Removed scum build up from classifier, oil level ok, safety cover in place, and no unusual noise or vibrations, indicator lights are working. TK			
2/24/2020	Process Blowers	Weekly Grit & Aeration Blower Maintenance	1214.01	Scheduled
Note	Oil in range; V-belts are good; #2 blower faults when it is in lag and runs fine if its lead.TK/TS			
2/24/2020	DB-301	Weekly Inspection of the Sludge Recirculation Pumps	1217.01	Scheduled
Note	Task complete. TK			
2/24/2020	AT-101	Weekly Surface Mixer Inspection & Maintenance	1206.01	Scheduled
Note	No unusual noise or vibrations, power cable ok, and hardware is connected tightly. Lots of froth in the tank. TS/TK			
2/24/2020	Secondary Clarifiers West & East	Secondary Clarifier Cleaning	1208.01	Scheduled
Note	Hosed the weirs, baffles, launder and inner ring down. Used vector to clean the center wells (Inner Rings)TS/TK			
2/24/2020	SB-201	Weekly Composite Sampler Maintenance	1223.01	Scheduled
Note	Task complete. TS			
2/25/2020	Service Building 3rd Floor	Service Building 3rd Floor Housekeeping	1226.01	Scheduled
Note	Task complete. TS			
2/25/2020	Service Building 2nd Floor	Weekly Service Building 2nd Floor Housekeeping	1225.01	Scheduled
Note	Task complete. TS			
2/25/2020	Service Building 1st Floor	Service Building 1st Floor Housekeeping	1224.01	Scheduled
Note	Task complete. TS			
2/25/2020	FC-100	Weekly East & West Secondary Clarifier Maintenance	1210.01	Scheduled
Note				
2/25/2020	UV-100	Weekly UV Maintenance	1231.01	Scheduled
Note	Lamps are working only using one bank due to low fecal coliform counts. TS/TK			
2/26/2020	GB-111	Monthly MUA-1 Maintenance	1104.01	Scheduled
Note	MUA-1 is properly operating, V-belts ok and interior is clean. TS			
2/26/2020	LB-129	Weekly Vacuum Pump Maintenance	1221.01	Scheduled
Note	Task complete. TS			
2/26/2020	DB-200	Weekly Gas Mixer Maintenance	1212.01	Scheduled
Note				
2/26/2020	SB-202	Weekly NP Booster System Maintenance	1220.01	Scheduled
Note	No unusual noise or vibrations. NO air from the system this week and cleaned the strainer. TK			
2/26/2020	Tool Room	Weekly Storage Room.	1229.01	Scheduled
Note	Task complete. TS			
2/26/2020	Laboratory/ Office	Laboratory Housekeeping	1218.01	Scheduled
Note	Swept and cleaned the counters. TS			
2/26/2020	Gas Mixing Room	Weekly Gas Mixing Room Housekeeping	1213.01	Scheduled
Note				
2/26/2020	Aeration Tanks	Weekly Aeration & Diffuser Maintenance	1205.01	Scheduled
Note				

Completed	Equipment Number	Task	WO #	Type
2/26/2020	Headworks Building	Weekly Headworks Housekeeping	1199.01	Scheduled
Note	Floor drain needs to be unclogged, MUA-1 and lighting are ok. TK			
2/26/2020	Ferrous Room	Weekly Ferrous Feed Room Housekeeping	1202.01	Scheduled
Note	Task complete. Lighting needs to be updated and it needs paint. TK			
2/26/2020	LB-125	Weekly Eyewash & Shower Exercise	1211.01	Scheduled
Note	Task complete, TK			
2/26/2020	GB-101	Weekly Fine Maintenance	1222.01	Scheduled
Note	Task complete. TK			
2/27/2020	Digester Building Basement	Weekly Digester Building Housekeeping	1201.01	Scheduled
Note	Task complete. Unclogged recirculation pump packing drain. CSM			
2/27/2020	UIS Cruise Scada Alarm System	Weekly Alarm System Testing	1230.01	Scheduled
Note	SCADA was tested with a low D.O alarm, but it isnt programmed to call out on the Cruise. TS			
2/27/2020	AT-105	Weekly D.O Sensor Maintenance	1209.01	Scheduled
Note	Task complete. CSM			
2/27/2020	Boiler Room	Boiler Room Housekeeping	1216.01	Scheduled
Note	Room in order, lighting is ok, task complete. TS			
2/28/2020	GB-104	Monthly Grit Auger & Classifier Maintenance	1103.01	Scheduled
Note				
2/28/2020	Laboratory QA/QC Program	Weekly Lab Analysis Checks	1219.01	Scheduled
Note	pH milivolt slope was ran and calculated. TS			
2/28/2020	TB-104	Weekly Charter Thckener Maintenance	1228.01	Scheduled
Note	No unusual noise or vibrations; oil in range, wear rings nearing the end; lighting ok, greased bearings, spray nozzles cleaned and polymer media is needs to be cleaned; greased sieve drum bearings. TS			
2/28/2020	TB-100	Weekly Thickener Building Housekeeping	1227.01	Scheduled
Note	Task complete. TK/TS			
2/28/2020	Bathroom	Weekly Bathroom/Locker Room Housekeeping	1207.01	Scheduled
Note	Task complete. TK/TS			
2/28/2020	Laboratory QA/QC Program	Monthly QAQC Data & Analysis Checks	1203.01	Scheduled
Note	QA/QC performed for the month.			
2/28/2020	TB-104	Monthly Thickener Maintenance	1204.01	Scheduled
Note	Oil buffer chamber are full, and gear box oil in range, pump oil is in range, and the drive couplers have no major wear. Removed cob webs.TK			



The City of Portland Operations & Maintenance Report

March 2020





June 16, 2020

S. Tutt Gorman, City Manager
City of Portland
259 Kent Street
Portland, MI 48775

RE: March 2020 Monthly Operation Report

Dear Mr. Gorman:

Attached is our Monthly Operation Report for the operation of the Wastewater Treatment Plant for the month of March 2020.

All information and data used to compile this report is available for your review. If you have any questions, please contact us. My phone number is 517-231-5773.

Sincerely,

F&V OPERATIONS AND RESOURCE MANAGEMENT, INC.

A handwritten signature in blue ink that reads "Roy K. Moss".

R. Keith Moss
Sr. Project Manager

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APPENDIX “A” Monthly Operating Report

APPENDIX “B” March 2020 Completed Work orders

ADMINISTRATIVE REPORT

ADMINISTRATIVE

The March 2020 Discharge Monitoring Report (DMR) was submitted to the Michigan Department of Environment, Great Lakes, and Energy (EGLE) on March 6, 2020. The average influent flow was 379,000 gallons per day. The daily maximum influent flow was 421,000 gallons, which occurred on March 31, 2020. The Monthly Operating Report (MOR) is in **Appendix A**.

As part of the Stormwater, Asset Management, and Wastewater (SAW) Program, F & V will be providing the City with a Capital Improvements Plan (CIP) and an Asset Management Plan (AMP) that should include most of the previous O&M Report's action items.

ACTION ITEMS

- Currently the City of Portland's WWTP is required to land apply biosolids three (3) times per year due to biosolids storage capacity limitations. EGLE requires a 180-day minimum bio solids storage capacity for compliance. Also, this frequency of land application does not coincide with normal agricultural spring and fall planting cycles, and there are recurring issues with farm field and land application contractor availability. A biosolids storage capacity study needs to be performed to develop the most cost-effective method to expand the biosolids storage capacity of WWTP.
- There is a copper issue in the City's biosolids. The analytical results are consistently above table three (3) limits. Table three's (3) maximum concentration limit (MCL) for copper is 1,500 micro-grams per liter (ug/L.) FVOP recommends investigating the issue further by performing additional collection system sampling and the non-domestic users complete a non-domestic user survey.

WASTEWATER MAINTENANCE

Maintenance was completed during the month of March 2020 in accordance with the computerized maintenance management system (CMMS.) The completed March 2020 completed work orders can be viewed in **Appendix B**.

OPERATIONS

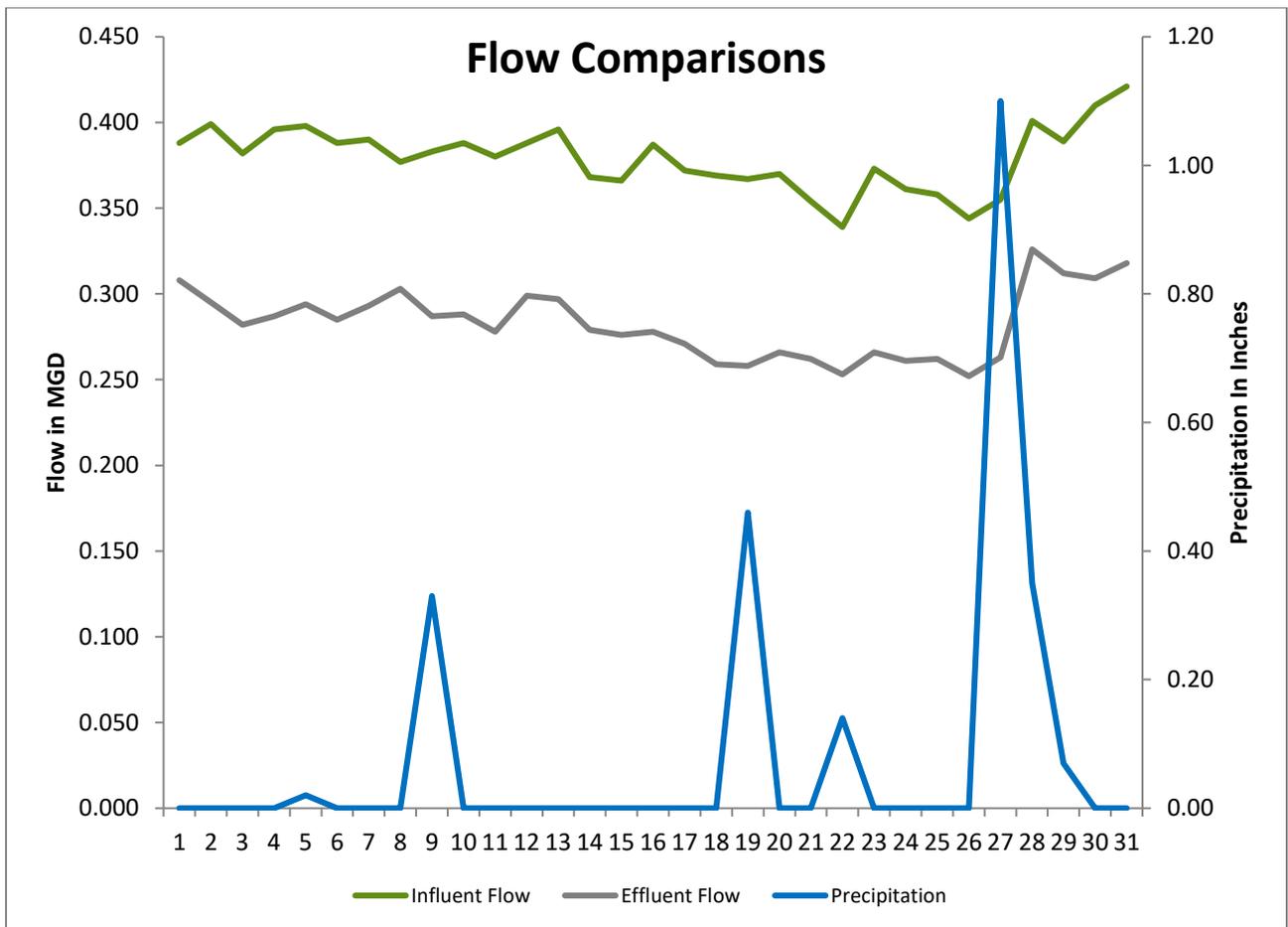
- Mettler-Toledo calibrated lab scales.
- Entry into East clarifier for inspection and adjustments to plows.

EMERGENCY ALARM CALL- OUTS

There was no after- hours emergency call outs during March 2020.

DAILY FLOW SUMMARY

The wastewater flow was monitored using the facility's influent and effluent flow meters. The chart below shows the flow readings for the month of March 2020. The average influent flow during the period was 379,000 gallons per day and the average effluent flow during the period was 293,000 gallons per day. We had seven (7) days of precipitation which totaled 2.47 inches. The influent flow is higher than the effluent flow due to recycle flows that are metered twice.



APPENDIX "A"



City of Portland, Michigan

March 2020

FINAL EFFLUENT

DAY	CBOD -5					T.S.S					V.S.S			TOTAL PHOSPHORUS			pH	DO	FECAL	
	mg/l	mg/l	lbs/day	lbs	%	mg/l	mg/l	lbs/day	lbs	%	mg/l	mg/l	lbs/day	%	su	mg/l			COLIFORM	7-day
		7-day		7-day	Rem.		7-day		7-day	Rem.				Rem.			cts/100 ml			
		Avg		Avg			Avg		Avg										GEO	
1																				
2																				
3	2.7		6.4		99	4.8		11.3		98	2.8	0.568	1.3	91	6.8	7.6	98			
4	2.4		5.7		99	3.2		7.7		99	1.6	0.215	0.5	96	7.2	8.4	46			
5	2.6		6.4		98	3.2		7.8		99	2.4	0.820	2.0	85	7.2	8.3	65			
6																				
7		2.6		6.2			3.7		8.9									66		
8		2.6		6.2			3.7		8.9									66		
9	3.1	2.7	7.4	6.5	99	3.6	3.7	8.6	8.9	98	2.0	0.730	1.7	84	7.4	7.1	99	73		
10	3.1	2.8	7.4	6.7	99	2.0	3.0	4.8	7.2	99	1.2	0.955	2.3	88	7.4	7.1	132	79		
11	3.1	3.0	7.2	7.1	99	2.4	2.8	5.6	6.7	99	1.2	1.220	2.8	78	7.3	7.4	113	99		
12		3.1		7.4			2.7		6.3									114		
13		3.1		7.4			2.7		6.3									114		
14		3.1		7.4			2.7		6.3									114		
15		3.1		7.4			2.7		6.3									114		
16		3.1		7.3			2.2		5.2									122		
17	3.7	3.4	8.4	7.8	99	3.6	3.0	8.1	6.9	99	0.8	0.462	1.0	93	7.4	7.6	116	114		
18	3.2	3.5	6.9	7.6	99	5.2	4.4	11.2	9.7	98	4.0	0.252	0.5	95	7.4	8.1	220	160		
19	3.5	3.5	7.5	7.6	99	1.6	3.5	3.4	7.6	99	1.2	0.727	1.6	85	7.5	7.7	104	138		
20		3.5		7.6			3.5		7.6									138		
21		3.5		7.6			3.5		7.6									138		
22		3.5		7.6			3.5		7.6									138		
23		3.5		7.6			3.5		7.6									138		
24	3.2	3.3	7.0	7.1	99	5.6	4.1	12.2	9.0	97	2.8	0.992	2.2	83	7.3	7.8	42	99		
25	2.8	3.2	6.1	6.9	99	5.2	4.1	11.4	9.0	98	1.6	0.832	1.8	83	7.3	8.1	12	37		
26	3.0	3.0	6.3	6.5	99	3.2	4.7	6.7	10.1	97	1.2	0.805	1.7	84	7.3	7.7	23	23		
27		3.0		6.5			4.7		10.1									23		
28		3.0		6.5			4.7		10.1									23		
29		3.0		6.5			4.7		10.1									23		
30		3.0		6.5			4.7		10.1									23		
31	3.3	3.0	8.8	7.1	99	1.6	3.3	4.2	7.4	99	0.8	0.832	2.2	72	7.0	7.5	65	26		
M/M																				
TL																				
GA																				
ME	3.1		7.0		99	3.5		7.9		98	1.8	0.72	1.7	86		7.7	69.4			
WGA																				
WA																				
M/M = Maximum/Minium; TL = Total; GA = Geometric Average; ME = Mean Average; WGA = Weighted Geometric Average; WA = Weigh																				
REMARKS:																				

Total pounds are the multiplication of the monthly average by the number of days in the month.

City of Portland, MI

March 2020

ACTIVATED SLUDGE

DAY	Aeration Volume KCF	Detent. Time Hours	CRT Days	Organic Loading F/M	MLSS mg/l	MLVSS mg/l	SETT. %	SVI	DO mg/l	AIR SUPPLY CuFt./D	RASS g/100 ml	RASVS g/100 ml	WAS gal	WAS lbs	Return Flow (RAS)	Air Volume
1	24	5.9	14.0		2582		49	190	3.4	1.44	0.3441		9.58	275	0.339	10
2	24	5.7	5.4		2815		46	163	2.4	1.44	0.4477		21.00	784	0.351	10
3	24	6.0	4.4	0.31	2539	1925	41	161	2.1	1.44	0.4966	0.3696	20.80	862	0.330	10
4	24	6.1	3.5	0.29	2472	1844	40	162	4.5	1.44	0.4642	0.3430	27.13	1050	0.307	10
5	24	5.9	4.2	0.19	2506	1860	36	144	3.7	1.44	0.4144	0.3001	25.62	886	0.330	10
6	24	6.2	4.0		2361		32	136	3.2	1.44	0.4402		24.07	884	0.309	10
7	24	6.1	4.6		2239		30	134	3.0	1.44	0.4691		18.65	730	0.314	10
8	24	6.1	11.8		2312		31	134	2.2	1.44	0.4188		8.40	293	0.324	10
9	24	6.3	4.1	0.49	2496	1814	39	156	4.3	1.44	0.4556	0.3407	24.00	912	0.303	10
10	24	6.2	4.2	0.37	2433	1847	32	131	5.3	1.44	0.4275	0.3269	24.00	856	0.300	10
11	24	6.4	4.3	0.37	2308	1675	30	130	2.1	1.44	0.4169	0.3071	23.30	810	0.291	10
12	24	6.5	4.7		2339		30	128	2.0	1.44	0.4252		20.85	739	0.274	10
13	24	6.8	3.4		2438		32	131	4.4	1.44	0.6444		19.97	1073	0.238	10
14	24	7.6	10.8		2357		29	123	5.5	1.44	0.3986		9.83	327	0.197	10
15	24	7.7	9.6		2608		34	130	5.0	1.44	0.5424		8.96	405	0.195	10
16	24	7.3	4.0		2799		37	132	3.0	1.44	0.5471		22.86	1043	0.205	10
17	24	7.6	4.0	0.44	2941	1988	40	136	5.1	1.44	0.5723	0.4045	23.09	1102	0.194	10
18	24	7.6	3.9	0.43	2770	1850	30	108	2.8	1.44	0.5715	0.3932	22.20	1058	0.193	10
19	24	7.7	3.4	0.41	2732	1849	29	106	4.6	1.44	0.7273	0.5132	20.01	1214	0.193	10
20	24	7.6	4.0		2884		30	104	3.1	1.44	0.5620		22.97	1077	0.196	10
21	24	7.8	6.7		2854		31	109	3.2	1.44	0.9062		8.40	635	0.195	10
22	24	7.9	10.2		3207		35	109	2.4	1.44	0.6711		8.40	470	0.202	10
23	24	7.4	3.4		3225		36	112	5.0	1.44	0.6951		24.64	1428	0.209	10
24	24	7.6	3.8	0.31	2739	1935	31	113	2.9	1.44	0.5937	0.4183	22.00	1089	0.204	10
25	24	7.7	3.6	0.28	2714	1939	28	103	4.4	1.44	0.5983	0.4289	22.66	1131	0.198	10
26	24	7.9	3.4	0.24	2491	1785	28	112	2.8	1.44	0.5833	0.4207	22.41	1090	0.198	10
27	24	7.9	4.7		2434		26	107	4.9	1.44	0.5175		18.00	777	0.188	10
28	24	7.1	7.9		2368		29	122	5.5	1.44	0.6395		8.42	449	0.201	10
29	24	7.2	7.9		2368		29	122	3.7	1.44	0.6395		8.40	448	0.205	10
30	24	7.0	2.6		2626		30	114	3.1	1.44	0.8555		20.81	1485	0.206	10
31	24	6.9	3.2	0.31	2585	1900	26	100	2.4	1.44	0.6900		21.13	1216	0.203	10
TL													582.55	26597	7.592	
ME	24	7.0	5.5	0.34	2598	1862	33	128	3.6	1.44	0.5541	0.3805	18.79	858	0.245	
REMARKS:																

Total lbs are figured by multiplying the monthly average by the number of days in the month.

City of Portland, MI

March 2020

MISCELLANEOUS DATA

DAY	OUTFALL	GRIT	NAT.	ELECT.	ELECT.	ELECT.	ELECT	FERROUS	Polymer
	OBSERVATION		GAS	WWTP	Riverside	Canal	Cutler	CHLORIDE	Sludge
					Lift Stat.	Lift Stat.	Lift Stat.		Thickener
	yes/no	cf	cf	kwh	kwh	kwh	kwh	lbs	lbs
SF				1					
1			23	144				13	9.0
2			22	136	26	92	45	13	23.0
3	Yes		21	144				13	31.0
4	Yes		19	136	25		42	13	24.0
5	Yes		20	136				6	28.0
6			20	120				6	25.0
7			20	136				6	15.0
8			18	136	40		63	6	7.0
9	Yes		17	136				6	31.0
10	Yes		18	136	23	10	33	6	23.0
11	Yes		19	128				13	24.0
12			19	136				6	24.0
13			19	136				6	25.0
14			20	128				6	12.0
15			21	136	64	26		6	12.0
16			19	128				17	31.0
17	yes		18	144	23	9	148	17	31.0
18	yes		18	136				6	32.0
19	yes		18	144				6	26.0
20			20	136				6	26.0
21			22	128				6	8.0
22			24	152				6	11.0
23			20	136	86	30	139	6	34.0
24	yes		18	136			107	17	29.0
25	yes		18	152				17	30.0
26	yes		18	136	33	14		17	29.0
27			21	144	41	14		9	22.0
28			21	136				9	14.0
29			21	136			101	9	14.0
30			21	140	70			9	41.0
31			17	152				9	37.0
TL		0.0	610.0	4260	431	195	678	291	728.0
ME			20	137	43	28	85	9	23.5
	REMARKS:								

Total lbs are figured by multiplying the monthly average by the number of days in the month.

City of Portland, MI

March 2020

DIGESTER BIOSOLIDS

SF DAY	RAW SLUDGE						BIOSOLIDS						
	Amt.	Percent	Digester	Digester	PH	TEMP.	SLUDGE	PH	T. S.	V. S.	VA/TA	VOLATILE	
	Pumped	Total	% Vol.	Loading			TEMP.				RATIO	SOLIDS	
	gal	Solids	Solids	lbs/1000 cuft.		C.	C.		%	%		REDUCTION	
1	1332												
2	4631	6.6	76	0.12	6.9	12.9	28.9	7.0	1.7	66	0.16	39	
3	4570												
4	5720												
5	5357	7.8	76	0.17	7.0	12.9	29.4	7.0	1.5	62	0.08	48	
6	5054												
7	3420												
8	4752												
9	4540	7.9	74	0.14	6.9	15.1	28.9	7.1	1.4	62	0.07	43	
10	4510												
11	4449												
12	4389	6.4	74	0.11	7.0	12.4	28.1	7.0	1.5	61		45	
13	5387												
14	2694												
15	2179												
16	6326	6.6	75		7.0	12.8	27.7	7.0	1.4	62	0.09	46	
17	6840			0.00									
18	5418												
19	4419	6.2	71		7.4	14.8	26.5	7.2	1.7	62	0.07	33	
20	5145												
21	1846			0.00									
22	2028												
23	7899	10.4	74		7.0	13.3	28.4	7.0	1.2	62	0.23	43	
24	7657			0.00									
25	6235												
26	5932	6.3	74		7.0	15.9	28.0	7.0	1.8	62	0.2	43	
27	5297												
28	2209			0.00									
29	2542												
30	6689	6.4	76		7.2	15.1	27.2	7.1	1.9	62	0.04	48	
31	6416			0.00									
TL	145882												
ME	4651	7.2	74	0.06	7.0	13.9	28.1	7.0	1.6	62		43	
REMARKS:		Loading Rate = .02 -.10 lb/cu. ft.											

Digester Volume:
 Primary: 14700
 Secondary: 14700

Process Pattern:
 Primary, Secondary, Land Application

City of Portland, MI

March 2020

SOLIDS DISPOSAL

DAY	SUPERNATANT							BIOSOLIDS DISPOSAL			SITE #	DRY TONS APPLIED.	
	AMT.	PH	TOTAL	VOL.	SUSP.	Phosp.	PHOSP.	SOLIDS	AMOUNT	TOTAL			VOL.
			SOLIDS	SOLIDS	SOLIDS			TO BED	HAULED	SOLIDS			SOLIDS
	gal.		%	%	mg/l	mg/l	lbs	lbs	gal	%			%
1	0							0.0					
2	1599							0.0					
3	799.5							0.0					
4	0							0.0					
5	2665							0.0					
6	2931.5							0.0					
7	1865.5							0.0					
8	2132							0.0					
9	2398.5							0.0					
10	2665							0.0					
11	1865.5							0.0					
12	2665							0.0					
13	2132							0.0					
14	1599							0.0					
15	1066							0.0					
16	2665							0.0					
17	1066							0.0					
18	1599							0.0					
19	799.5							0.0					
20	3731							0.0					
21	533							0.0					
22	1066							0.0					
23	1599							0.0					
24	1332.5							0.0					
25	2398.5							0.0					
26	1599							0.0					
27	3731							0.0					
28	2931.5							0.0					
29	1599							0.0					
30	3464.5							0.0					
31	3464.5							0.0					
TL	59962.5							0.0	0				
ME	135916												

Supernatant to drying beds or storage tank and cycled back to plant headworks.
 Biosolids to farm land and landfill.

APPENDIX “B”



Completed Work Order Note Report

6/16/2020

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Completed	Equipment Number	Task	WO #	Type
3/2/2020	AT-101	Weekly Surface Mixer Inspection & Maintenance	1244.01	Scheduled
Note				
3/2/2020	Secondary Clarifiers West & East	Secondary Clarifier Cleaning	1246.01	Scheduled
Note				
3/2/2020	FC-100	Weekly East & West Secondary Clarifier Maintenance	1248.01	Scheduled
Note				
3/2/2020	UV-100	Weekly UV Maintenance	1269.01	Scheduled
Note				
3/2/2020	Aeration Tanks	Monthly Hosing of the Aeration Tanks	1235.01	Scheduled
Note				
3/3/2020	FC-100	Monthly East & West Secondary Clarifier Maintenance	1170.01	Scheduled
Note				
3/3/2020	Process Blowers	Weekly Grit & Aerartion Blower Maintenance	1252.01	Scheduled
Note				
3/3/2020	GB-104	Weekly Grit Classifier Maintenance	1253.01	Scheduled
Note				
3/3/2020	GB-111	Monthly MUA-1 Maintenance	1239.01	Scheduled
Note				
3/3/2020	LB-129	Weekly Vacuum Pump Maintenance	1259.01	Scheduled
Note				
3/3/2020	Service Building 3rd Floor	Service Building 3rd Floor Housekeeping	1264.01	Scheduled
Note				
3/3/2020	Service Building 2nd Floor	Weekly Service Building 2nd Floor Housekeeping	1263.01	Scheduled
Note				
3/3/2020	Service Building 1st Floor	Service Building 1st Floor Housekeeping	1262.01	Scheduled
Note				
3/3/2020	Ferrous Room	Weekly Ferrous Feed Room Housekeeping	1234.01	Scheduled
Note				
3/3/2020	Bathroom	Weekly Bathroom/Locker Room Housekeeping	1245.01	Scheduled
Note				
3/3/2020	Gas Mixing Room	Weekly Gas Mixing Room Housekeeping	1251.01	Scheduled
Note				
3/3/2020	Boiler Room	Boiler Room Housekeeping	1254.01	Scheduled
Note				
3/3/2020	DB-301	Weekly Inspection of the Sludge Recirculation Pumps	1255.01	Scheduled
Note				
3/3/2020	Aeration Tanks	Weekly Aeration & Diffuser Maintenance	1243.01	Scheduled
Note				
3/3/2020	LB-125	Weekly Eyewash & Shower Exercise	1249.01	Scheduled
Note				
3/3/2020	SB-201	Weekly Composite Sampler Maintenance	1261.01	Scheduled
Note				
3/3/2020	SA-102	Portland Monthly Emergency Lighting Checks	1237.01	Scheduled
Note		The lights work with the exception of the HW. The lab light was replaced.		
3/3/2020	Laboratory/ Office	Laboratory Housekeeping	1256.01	Scheduled
Note				
3/4/2020	DB-200	Weekly Gas Mixer Maintenance	1250.01	Scheduled
Note				
3/4/2020	Digester Building Basement	Weekly Digester Building Housekeeping	1233.01	Scheduled
Note				

Completed	Equipment Number	Task	WO #	Type
3/4/2020	SB-202	Weekly NP Booster System Maintenance	1258.01	Scheduled
Note				
3/4/2020	GB-104	Monthly Grit Auger & Classifier Maintenance	1238.01	Scheduled
Note				
3/4/2020	LB-131	Monthly LB-131 Water Heater Maintenance	1242.01	Scheduled
Note				
3/4/2020	TB-104	Weekly Charter Thckener Maintenance	1266.01	Scheduled
Note				
3/4/2020	AT-105	Weekly D.O Sensor Maintenance	1247.01	Scheduled
Note				
3/4/2020	Tool Room	Weekly Storage Room.	1267.01	Scheduled
Note				
3/4/2020	GB-101	Weekly Fine Maintenance	1260.01	Scheduled
Note				
3/4/2020	GB-101	Monthly Fine Screen Maintenance	1241.01	Scheduled
Note				
3/4/2020	Headworks Building	Weekly Headworks Housekeeping	1232.01	Scheduled
Note				
3/4/2020	TB-100	Weekly Thickener Building Housekeeping	1265.01	Scheduled
Note				
3/5/2020	Laboratory QA/QC Program	Weekly Lab Analysis Checks	1257.01	Scheduled
Note				
3/6/2020	UIS Cruise Scada Alarm System	Weekly Alarm System Testing	1268.01	Scheduled
Note				
3/9/2020	Headworks Building	Unclog the floor drain.	1198.01	Corrective
Note		Unclogged the floor drain. TK/TS		
3/9/2020	GB-104	Weekly Grit Classifier Maintenance	1288.01	Scheduled
Note				
3/9/2020	GB-101	Weekly Fine Maintenance	1298.01	Scheduled
Note				
3/9/2020	SB-201	Weekly Composite Sampler Maintenance	1299.01	Scheduled
Note				
3/9/2020	Headworks Building	Weekly Headworks Housekeeping	1270.01	Scheduled
Note		Cleaned walls, piping and floor. Unclogged floor drain. TK/TS		
3/9/2020	Ferrous Room	Weekly Ferrous Feed Room Housekeeping	1275.01	Scheduled
Note				
3/9/2020	Bathroom	Weekly Bathroom/Locker Room Housekeeping	1278.01	Scheduled
Note				
3/9/2020	Gas Mixing Room	Weekly Gas Mixing Room Housekeeping	1285.01	Scheduled
Note				
3/9/2020	Boiler Room	Boiler Room Housekeeping	1290.01	Scheduled
Note				
3/9/2020	Laboratory/ Office	Laboratory Housekeeping	1292.01	Scheduled
Note				
3/9/2020	Service Building 3rd Floor	Service Building 3rd Floor Housekeeping	1302.01	Scheduled
Note				
3/9/2020	Service Building 2nd Floor	Weekly Service Building 2nd Floor Housekeeping	1301.01	Scheduled
Note				
3/9/2020	Service Building 1st Floor	Service Building 1st Floor Housekeeping	1300.01	Scheduled
Note				
3/9/2020	Tool Room	Weekly Storage Room.	1305.01	Scheduled
Note				

Completed	Equipment Number	Task	WO #	Type
3/9/2020	Aeration Tanks	Weekly Aeration & Diffuser Maintenance	1276.01	Scheduled
Note				
3/10/2020	AT-101	Monthly Anoxic Surface Mixer Maintenance	1236.01	Scheduled
Note				
3/10/2020	Digester Building Basement	Weekly Digester Building Housekeeping	1273.01	Scheduled
Note				
3/10/2020	DB-200	Weekly Gas Mixer Maintenance	1283.01	Scheduled
Note				
3/10/2020	Process Blowers	Weekly Grit & Aeration Blower Maintenance	1286.01	Scheduled
Note				
3/10/2020	SB-202	Weekly NP Booster System Maintenance	1294.01	Scheduled
Note				
3/10/2020	LB-129	Weekly Vacuum Pump Maintenance	1296.01	Scheduled
Note				
3/10/2020	TB-100	Weekly Thickener Building Housekeeping	1303.01	Scheduled
Note				
3/10/2020	LB-125	Weekly Eyewash & Shower Exercise	1282.01	Scheduled
Note				
3/10/2020	DB-301	Weekly Inspection of the Sludge Recirculation Pumps	1291.01	Scheduled
Note				
3/10/2020	AT-101	Weekly Surface Mixer Inspection & Maintenance	1277.01	Scheduled
Note				
3/10/2020	UIS Cruise Scada Alarm System	Weekly Alarm System Testing	1306.01	Scheduled
Note				
3/10/2020	AT-105	Weekly D.O Sensor Maintenance	1280.01	Scheduled
Note				
3/11/2020	TB-104	Weekly Charter Thckener Maintenance	1304.01	Scheduled
Note				
3/11/2020	UV-100	Weekly UV Maintenance	1307.01	Scheduled
Note				
3/12/2020	Secondary Clarifiers West & East	Secondary Clarifier Cleaning	1279.01	Scheduled
Note		Hosed the west clarifier and began taking the east clarifier down for cleaning and inspection. We began powerwashing the east as well. TS/CM		
3/12/2020	Laboratory QA/QC Program	Weekly Lab Analysis Checks	1293.01	Scheduled
Note				
3/13/2020	FC-100	Weekly East & West Secondary Clarifier Maintenance	1281.01	Scheduled
Note				
3/13/2020	LB-129	Weekly Vacuum Pump Maintenance	1297.01	Scheduled
Note				
3/13/2020	SB-202	Weekly NP Booster System Maintenance	1295.01	Scheduled
Note				
3/13/2020	GB-104	Weekly Grit Classifier Maintenance	1289.01	Scheduled
Note				
3/13/2020	Process Blowers	Weekly Grit & Aeration Blower Maintenance	1287.01	Scheduled
Note				
3/13/2020	DB-200	Weekly Gas Mixer Maintenance	1284.01	Scheduled
Note				
3/13/2020	Digester Building Basement	Weekly Digester Building Housekeeping	1274.01	Scheduled
Note				
3/16/2020	GB-104	Weekly Grit Classifier Maintenance	1323.01	Scheduled
Note				

Completed Work Order Note Report

6/16/2020

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Completed	Equipment Number	Task	WO #	Type
3/16/2020	AT-105	Weekly D.O Sensor Maintenance	1317.01	Scheduled
Note				
3/16/2020	Aeration Tanks	Weekly Aeration & Diffuser Maintenance	1313.01	Scheduled
Note				
3/16/2020	Process Blowers	Weekly Grit & Aeration Blower Maintenance	1322.01	Scheduled
Note				
3/17/2020	SB-201	Weekly Composite Sampler Maintenance	1331.01	Scheduled
Note				
3/17/2020	UIS Cruise Scada Alarm System	Weekly Alarm System Testing	1338.01	Scheduled
Note				
3/18/2020	SB-202	Weekly NP Booster System Maintenance	1328.01	Scheduled
Note				
3/18/2020	GB-101	Weekly Fine Maintenance	1330.01	Scheduled
Note				
3/18/2020	DB-301	Weekly Inspection of the Sludge Recirculation Pumps	1325.01	Scheduled
Note				
3/18/2020	DB-200	Weekly Gas Mixer Maintenance	1320.01	Scheduled
Note				
3/18/2020	UV-100	Weekly UV Maintenance	1339.01	Scheduled
Note				
3/18/2020	Headworks Building	Weekly Headworks Housekeeping	1308.01	Scheduled
Note				
3/18/2020	Digester Building Basement	Weekly Digester Building Housekeeping	1309.01	Scheduled
Note				
3/18/2020	Bathroom	Weekly Bathroom/Locker Room Housekeeping	1315.01	Scheduled
Note				
3/18/2020	Gas Mixing Room	Weekly Gas Mixing Room Housekeeping	1321.01	Scheduled
Note				
3/18/2020	Tool Room	Weekly Storage Room.	1337.01	Scheduled
Note				
3/18/2020	TB-100	Weekly Thickener Building Housekeeping	1335.01	Scheduled
Note				
3/18/2020	Service Building 3rd Floor	Service Building 3rd Floor Housekeeping	1334.01	Scheduled
Note				
3/18/2020	Service Building 2nd Floor	Weekly Service Building 2nd Floor Housekeeping	1333.01	Scheduled
Note				
3/18/2020	Service Building 1st Floor	Service Building 1st Floor Housekeeping	1332.01	Scheduled
Note				
3/18/2020	Laboratory/ Office	Laboratory Housekeeping	1326.01	Scheduled
Note				
3/18/2020	Boiler Room	Boiler Room Housekeeping	1324.01	Scheduled
Note				
3/19/2020	AT-101	Weekly Surface Mixer Inspection & Maintenance	1314.01	Scheduled
Note				
3/19/2020	TB-104	Weekly Charter Thickener Maintenance	1336.01	Scheduled
Note				
3/20/2020	Secondary Clarifiers West & East	Secondary Clarifier Cleaning	1316.01	Scheduled
Note				
3/20/2020	FC-100	Weekly East & West Secondary Clarifier Maintenance	1318.01	Scheduled
Note				

Completed	Equipment Number	Task	WO #	Type
3/20/2020	Laboratory QA/QC Program	Weekly Lab Analysis Checks	1327.01	Scheduled
Note				
3/20/2020	LB-125	Weekly Eyewash & Shower Exercise	1319.01	Scheduled
Note				
3/20/2020	LB-129	Weekly Vacuum Pump Maintenance	1329.01	Scheduled
Note				
3/20/2020	Ferrous Room	Weekly Ferrous Feed Room Housekeeping	1310.01	Scheduled
Note				
3/20/2020	DB-301	Monthly Greasing of the Sludge Recirculation Pumps	1311.01	Scheduled
Note				
3/23/2020	SB-201	Weekly Composite Sampler Maintenance	1365.01	Scheduled
Note		Cleaned sampler inside & outside, tubing good. Temps good.		
3/23/2020	LB-129	Weekly Vacuum Pump Maintenance	1363.01	Scheduled
Note		Drained condensate, oil level good. Cleaned up area.		
3/23/2020	UV-100	Weekly UV Maintenance	1373.01	Scheduled
Note		Inspect each rack, cleaned troughs, possibly need to look @ power cords as cracking is evident.		
3/26/2020	GB-104	Weekly Grit Classifier Maintenance	1357.01	Scheduled
Note		Cleaned floor, No oil leaks or unusual noises. Hosed entire unit.		
3/26/2020	GB-101	Weekly Fine Maintenance	1364.01	Scheduled
Note		Chute looks good. No clogs. Removed a few rags. No unusual noises. Cleaned floor around unit.		
3/26/2020	UIS Cruise Scada Alarm System	Weekly Alarm System Testing	1372.01	Scheduled
Note		Digester cover activated and alarm working good.		
3/26/2020	Bathroom	Weekly Bathroom/Locker Room Housekeeping	1349.01	Scheduled
Note		Swept floor and cleaned mirrors, toilets, sink. Lights good.		
3/26/2020	Headworks Building	Weekly Headworks Housekeeping	1340.01	Scheduled
Note		Cleaned interior floors and grating. Lighting good. MUA seems to be working ok. All grating good. Fans and ventilation good as well.		
3/26/2020	UV-100	Annual Trojan 3000 UV Maintenance	1341.01	Scheduled
Note		Still 3000 hrs before bulb replacment		
3/27/2020	SB-202	Monthly NP Booster System Maintenance	1240.01	Scheduled
Note		Pump #1 (7.6, 7.2, 7.1) Pump #2 (8.6, 8.0, 8.2)		
3/27/2020	LB-130	Total Phosphorus Calibration Curve	1272.01	Scheduled
Note		MHPG all new reagents. Logged and charted graphs.		
3/27/2020	SB-202	Weekly NP Booster System Maintenance	1362.01	Scheduled
Note		No unusual noises, Amp (Pump #1 - 7.6, 7.2,7.1) (Pump #2 - 8.6,8.0,8.2), Bulbs out, buying more.		
3/27/2020	Service Building 1st Floor	Service Building 1st Floor Housekeeping	1366.01	Scheduled
Note		Swept floors, cleaned cobwebs, lights ok		
3/27/2020	Ferrous Room	Weekly Ferrous Feed Room Housekeeping	1343.01	Scheduled
Note		Tasks Complete		
3/27/2020	Service Building 3rd Floor	Service Building 3rd Floor Housekeeping	1368.01	Scheduled
Note		Swept floor, cleaned cobwebs, lights ok		
3/27/2020	TB-104	Weekly Charter Thckener Maintenance	1370.01	Scheduled
Note		Spray nozzles checked daily, oil levels in range, polymer media just cleaned.		
3/27/2020	DB-200	Weekly Gas Mixer Maintenance	1354.01	Scheduled
Note		V-belts ok, oil in range, no unusual noise/vibrations.		
3/27/2020	AT-105	Weekly D.O Sensor Maintenance	1351.01	Scheduled
Note		Cleaned sensor		
3/27/2020	Service Building 2nd Floor	Weekly Service Building 2nd Floor Housekeeping	1367.01	Scheduled
Note		Swept floor, cleaned cobwebs, lights ok		
3/27/2020	Aeration Tanks	Weekly Aeration & Diffuser Maintenance	1347.01	Scheduled
Note		Drained condensate, not currently bumping diffusers		

Completed	Equipment Number	Task	WO #	Type
3/27/2020	DB-301	Weekly Inspection of the Sludge Recirculation Pumps	1359.01	Scheduled
Note	No unusual noise or vibrations, packing ok, not leaks.			
3/27/2020	Laboratory QA/QC Program	Weekly Lab Analysis Checks	1361.01	Scheduled
Note	All data logged and entered for the week.			
3/27/2020	AT-101	Weekly Surface Mixer Inspection & Maintenance	1348.01	Scheduled
Note	All cable good. Removed rags. No grease leaking. Sounds good.			
3/27/2020	Boiler Room	Boiler Room Housekeeping	1358.01	Scheduled
Note	Floors good. No cobwebs. Piping good. All lighting good.			
3/27/2020	Gas Mixing Room	Weekly Gas Mixing Room Housekeeping	1355.01	Scheduled
Note	Floors good. Cobwebs, debris, etc. cleaned up. Lights good. Exhaust fan not working.			
3/27/2020	Digester Building Basement	Weekly Digester Building Housekeeping	1342.01	Scheduled
Note	Floor and stairs good. Piping good. Nothing out of place. Sump pump working. All lights good.			
3/27/2020	LB-125	Weekly Eyewash & Shower Exercise	1353.01	Scheduled
Note	Ran shower and eyewash, mopped floor, signed tag.			
3/27/2020	Laboratory/ Office	Laboratory Housekeeping	1360.01	Scheduled
Note	Swept & mopped floor, cleaned countertops, lighting good. Organized all loose paperwork.			
3/27/2020	TB-100	Weekly Thickener Building Housekeeping	1369.01	Scheduled
Note	Swept and hosed down, mopped floor. All lighting good. Windows and doors good. No tools to organize.			
3/27/2020	Tool Room	Weekly Storage Room.	1371.01	Scheduled
Note	Swept floor, organized tools, lights ok			
3/27/2020	Laboratory QA/QC Program	Monthly QAQC Data & Analysis Checks	1344.01	Scheduled
Note	Reagent made. Logged pH-slope recorded. Set-up new phos curve.			
3/28/2020	Secondary Clarifiers West & East	Secondary Clarifier Cleaning	1350.01	Scheduled
Note	Used Vac-All to clean influent ring. Hosed down and scrubbed baffles, launders, and weirs.			
3/30/2020	FC-100	Weekly East & West Secondary Clarifier Maintenance	1352.01	Scheduled
Note	Tanks look good, East tank off. Skimmer looks good. Walkways good. Very little condensate in East. None in West. Oil levels good. No unusual noise or vibrations.			
3/31/2020	TB-104	Monthly Thickener Maintenance	1345.01	Scheduled
Note	Buffered oil good			
3/31/2020	Process Blowers	Weekly Grit & Aerartion Blower Maintenance	1356.01	Scheduled
Note	Checked oil and filters/ok. Task Complete.			

**IONIA COUNTY BOARD OF COMMISSIONERS
BOARD OF COMMISSIONERS MEETING
JUNE 16, 2020 - 3:00 P.M.**

**101 WEST MAIN STREET, 3RD FLOOR
BOARD ROOM
IONIA, MI 48846**

AGENDA

- I. Call to Order**
- II. Pledge of Allegiance**
- III. Invocation**
- IV. Approval of Agenda**
 - A. Consideration of additional items
- V. Public Comment**
(3 minute time limit per speaker – please state name/organization)
- VI. Action on Consent Calendar**
 - A. Approve minutes of the previous meeting(s)
- VII. Unfinished Business**
 - A.
- VIII. New Business**
 - A. Request Annual Report for The Right Door—Kerry Possehn
 - B. Request approval to hire Managing Director for Road Department
 - C. Resolution for Road Department Equipment Financing
 - D. Request approval of change order with Vander Kodde Construction-COA
 - E. Discussion on Commission On Aging Project.
 - F. Request approval of FY2019 Emergency Management Performance Grant Work Agreement-Emergency Management
 - G.
- IX. Department Reports**
 - A. Treasurer (Foreclosed Property)
 - B. Sheriff
 - C. Prosecuting Attorney
 - D. ICEA

X. Reports of Officers, Boards, and Standing Committees

- A. Chairperson
- B. Board of Commissioners report
- C. County Administrator

XI. Reports of Special or Ad Hoc Committees

XII. Public Comment (3-minute time limit per speaker)

XIII. Closed Session

- A.

XIV. Adjournment

Board and/or Commission Vacancies

- Economic Development Corporation/Brownfield Redevelopment Authority – One three-year term expired April 2020.
- West Michigan Regional Planning Commission – One one-year terms, expired December 2019.
- Tax Allocation Board – One –one year term expired January 2020
- Commission on Aging Board – one – three year term expiring September 2020

Appointments for consideration in the month of June 2020:

Appointments for consideration in the month of July 2020:

Appointments for consideration in the month of August 2020:

**IONIA COUNTY BOARD OF COMMISSIONERS
BOARD OF COMMISSIONERS MEETING
JUNE 23, 2020 - 7:00 P.M.**

THIS MEETING WILL BE HELD ELECTRONICALLY

AGENDA

- I. Call to Order**
- II. Approval of Agenda**
 - A. Consideration of additional items
 - B.
- III. Public Comment**
(3 minute time limit per speaker – please state name/organization)
- IV. Action on Consent Calendar**
 - A. Approve minutes of the previous meeting(s)
 - B. Approve per diem and mileage
 - C.
- V. Unfinished Business**
 - A.
- VI. New Business**
 - A. Request approval to hire Managing Director for Road Department
 - B. Resolution for Road Department Equipment Financing
 - C. Request approval of Keene Township Gravel & Limestone Contracts-Road Department
 - D. Discussion on Commission On Aging Project.
 - E. Request approval of change order with Vander Kodde Construction-COA
 - F. Request approval of FY2019 Emergency Management Performance Grant Work Agreement-Emergency Management
 - G.
- VII. Department Reports**
 - A. Treasurer (Foreclosed Property)(For information only, email questions or concerns to Judy Clark)
 - B. Sheriff (For information only)
 - C. Prosecuting Attorney (For information only)
- VIII. Reports of Officers, Boards, and Standing Committees**
 - A. Chairperson
 - B. Board of Commissioners report
 - C. County Administrator

IX. Reports of Special or Ad Hoc Committees

X. Public Comment (3-minute time limit per speaker)

XI. Closed Session

A.

XII. Adjournment

Board and/or Commission Vacancies

- Economic Development Corporation/Brownfield Redevelopment Authority – One three-year term expired April 2020.
- West Michigan Regional Planning Commission – One one-year terms, expired December 2019.
- Tax Allocation Board – One –one year term expired January 2020
- Commission on Aging Board – one – three year term expiring September 2020

Appointments for consideration in the month of June 2020:

Appointments for consideration in the month of July 2020:

Appointments for consideration in the month of August 2020:



Ionia County Administration
Stephanie Fox, County Administrator
Courthouse, 101 West Main Street, Ionia, MI 48846
616.527.5300 Fax: 616.527.5380
sfox@ioniacounty.org

June 18, 2020

MEETING NOTICE
COUNTY OF IONIA
BOARD OF COMMISSIONERS'
TUESDAY, June 23, 2020
7:00 PM

THIS MEETING WILL BE HELD ELECTRONICALLY

The Board of Commissioners of the County of Ionia will hold a Full Board meeting on Tuesday, June 23, 2020 at 7:00 p.m. This meeting will be held electronically pursuant to Open Meetings Act and Governor Whitmer's Executive Order 2020-75.

The public may participate in the meeting electronically and may make public comment through either of the following methods:

Connect to **Zoom** from your computer, tablet or smartphone.

Website: https://us02web.zoom.us/meeting/register/tZwrcO-hrz0vH9QNJYv_EFFzaHhdioP8YwDo

Meeting Number (access code): **886 7691 6550**

Meeting password: **748030**

Call in by phone

Call in Phone number: **1-929-205-6099**

Meeting ID: **886 7691 6550**

Password: **748030**

Person with disabilities may participate in the meeting through the methods set forth above.

Remote public comment is available for the County Board of Commissioners' meeting by emailing: Administration@ioniacounty.org no later than 5:00 p.m. on Monday, June 22, 2020.

Comment can also be made during the Electronic Public Comment portion listed on the Agenda.

IONIA COUNTY BOARD OF COMMISSIONERS

Notice in Compliance With the Open Meetings Act

The Ionia County Board of Commissioners' will hold a special meeting on Tuesday, June 30, 2020 at 3:00 p.m. The meeting will be held electronically via Zoom. The Board will consider discussion on Cost Allocation and Voluntary Layoffs.

Inquiries may be made by calling the Commissioners' Office at 527-5300.

Date of Posting: June 24, 2020

Time of Posting: 3:35 p.m.

A QUORUM OF THE BOARD OF COMMISSIONERS MAY BE PRESENT



Ionia County Administration
Stephanie Fox, County Administrator
Courthouse, 101 West Main Street, Ionia, MI 48846
616.527.5300 Fax: 616.527.5380
sfox@ioniacounty.org

June 25, 2020

**MEETING NOTICE
COUNTY OF IONIA
SPECIAL BOARD OF COMMISSIONERS' MEETING
TUESDAY, June 30, 2020
3:00 PM**

THIS MEETING WILL BE HELD ELECTRONICALLY

The Ionia County Board of Commissioners' will hold a special meeting on Tuesday, June 30, 2020 at 3:00 p.m. to consider discussion on cost allocation and voluntary layoffs. This meeting will be held electronically pursuant to Open Meetings Act and Governor Whitmer's Executive Order 2020-75.

Connect to **Zoom** from your computer, tablet or smartphone.

Website: <https://us02web.zoom.us/meeting/register/tZIpdOqhqzstGdGexnVUbG4NFOPLOAOUMcHx>

Meeting Number (access code): **864 3395 0735**

Password: 841861

Call in by phone

Call in Phone number: **1-929-205-6099**

Meeting ID: **864 3395 0735**

Password: 841861

Person with disabilities may participate in the meeting through the methods set forth above.

Remote public comment is available for the County Board of Commissioners' meeting by emailing:
Administration@ioniacounty.org no later than 5:00 p.m. on Monday, June 29, 2020.

Comment can also be made during the Electronic Public Comment portion listed on the Agenda.

**IONIA COUNTY BOARD OF COMMISSIONERS
BOARD OF COMMISSIONERS SPECIAL MEETING
JUNE 30, 2020 - 3:00 P.M.**

THIS MEETING WILL BE HELD ELECTRONICALLY

AGENDA

- I. Call to Order**
- II. Approval of Agenda**
 - A. Consideration of additional items
 - B.
- III. Public Comment**
(3 minute time limit per speaker – please state name/organization)
- IV. Action on Consent Calendar**
 - A. Approve minutes of the previous meeting(s)
 - B.
 - C.
- V. Unfinished Business**
 - A.
- VI. New Business**
 - A. Request discussion on cost allocation.
 - B. Request discussion on voluntary layoffs.
 - C.
- VII. Department Reports**
 - A.
- VIII. Reports of Officers, Boards, and Standing Committees**
 - A. Chairperson
 - B. Board of Commissioners report
 - C. County Administrator
- IX. Reports of Special or Ad Hoc Committees**
- X. Public Comment (3-minute time limit per speaker)**
- XI. Closed Session**
 - A.

XII Adjournment

Board and/or Commission Vacancies

- Economic Development Corporation/Brownfield Redevelopment Authority – One three-year term expired April 2020.
- West Michigan Regional Planning Commission – One one-year terms, expired December 2019.
- Tax Allocation Board – One –one year term expired January 2020
- Commission on Aging Board – one – three year term expiring September 2020

Appointments for consideration in the month of June 2020:

Appointments for consideration in the month of July 2020:

Appointments for consideration in the month of August 2020:

**STATE OF MICHIGAN
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION
NOTICE OF HEARING
FOR THE ELECTRIC & GAS CUSTOMERS OF
CONSUMERS ENERGY COMPANY
CASE NO. U-20702**

- Consumers Energy Company requests Michigan Public Service Commission's approval for authority to reconcile its 2019 Energy Waste Reduction plan costs associated with the plan approved in Case No. U-18261.
- The information below describes how a person may participate in this case.
- You may call or write Consumers Energy Company, One Energy Plaza, Jackson, MI 49201, 517-788-0550 for a free copy of its application. Any person may review the documents at the offices of Consumers Energy Company.
- A pre-hearing will be held:

DATE/TIME: **Wednesday, July 1, 2020 at 10:30 AM**

BEFORE: **Administrative Law Judge Kandra Robbins**

LOCATION: Michigan Public Service Commission
7109 West Saginaw Highway
Lansing, Michigan 48917

PARTICIPATION: Any interested person may attend and participate. The hearing site is accessible, including handicapped parking. Persons needing any accommodation to participate should contact the Commission's Executive Secretary at (517) 284-8090 in advance to request mobility, visual, hearing or other assistance.

The Michigan Public Service Commission (Commission) will hold a pre-hearing to consider Consumers Energy Company's (Consumers Energy) June 1, 2020 application requesting approval to: 1) reconcile its 2019 Energy Waste Reduction (EWR) plan costs; 2) approve the collection of a financial performance incentive payment for both the natural gas and electric EWR plan; 3) approve the conversion of 63,715 EWR Credits into Renewable Energy Credits in 2019 for use in meeting Consumers Energy's renewable energy requirements under Act 295; and 4) other relief.

All documents filed in this case shall be submitted electronically through the Commission's E-Dockets website at: michigan.gov/mpscedockets. Requirements and instructions for filing can be found in the User Manual on the E-Dockets help page. Documents may also be submitted, in Word or PDF format, as an attachment to an email sent to: mpscedockets@michigan.gov. If you require assistance prior to e-filing, contact Commission staff at (517) 284-8090 or by email at: mpscedockets@michigan.gov.

Any person wishing to intervene and become a party to the case shall electronically file a petition to intervene with this Commission by June 24, 2020. (Interested persons may elect to file using the traditional paper format.) The proof of service shall indicate service upon Consumers Energy's Legal Department – Regulatory Group, One Energy Plaza, Jackson, MI 49201.

Any person wishing to appear at the hearing to make a statement of position without becoming a party to the case may participate by filing an appearance. To file an appearance, the individual must attend the hearing and advise the presiding administrative law judge of his or her wish to make a statement of position. All information submitted to the Commission in this matter becomes public information, thus available on the Michigan Public Service Commission's website, and subject to disclosure. Please do not include information you wish to remain private.

Requests for adjournment must be made pursuant to Michigan Office of Administrative Hearings and Rules R 792.10422 and R 792.10432. Requests for further information on adjournment should be directed to (517) 284-8130.

A copy of Consumers Energy Company's application may be reviewed on the Commission's website at: michigan.gov/mpscedockets, and at the office of Consumers Energy Company. For more information on how to participate in a case, you may contact the Commission at the above address or by telephone at (517) 284-8090.

Jurisdiction is pursuant to 1909 PA 106, as amended, MCL 460.551 et seq.; 1909 PA 300, as amended, MCL 462.2 et seq.; 1919 PA 419, as amended, MCL 460.54 et seq.; 1939 PA 3, as amended, MCL 460.1 et seq.; 1969 PA 306, as amended, MCL 24.201 et seq.; 2008 PA 295, as amended, MCL 460.1001 et seq., and Parts 1 & 4 of the Michigan Office of Administrative Hearings and Rules, Mich. Admin Code, R 792.10106 and R 792.10401 through R 792.10448.

**[THE MICHIGAN PUBLIC SERVICE COMMISSION MAY
APPROVE, REJECT, OR AMEND PROPOSALS MADE BY
CONSUMERS ENERGY.]**