CALL TO ORDER
The meeting was called to order by Chair Foster at 4:04 p.m.

ROLL

Present:
- Gary Foster, Muskegon County Commissioner
- Susie Hughes, Muskegon County Commissioner
- Zach Lahringer, Muskegon County Commissioner
- Ken Mahoney, Muskegon County Commissioner
- Brenda Moore, Drain Commissioner
- Charles Nash, Muskegon County Commissioner [excused at 4:26 p.m.]
- Robert Scolnik, Muskegon County Commissioner
- I. John Snider II, Muskegon County Commissioner
- Rillastine Wilkins, Muskegon County Commissioner
- Leo Evans, Ex-officio Member
- Jennifer Hernandez, Ex-officio Member

Excused:

Staff
Present:
- Dave Johnson, Wastewater Director
- Matthew Farrar, Public Works Director
- Tina Nash, Public Works Coordinator
- Mark Eisenbarth, County Administrator
- Beth Dick, Assistant Administrator & Finance Director
- Marcia Hovey-Wright, Muskegon County Commissioner

BPW-19-082  APPROVAL OF THE AGENDA

Moved by Commissioner Mahoney, seconded by Commissioner Wilkins, to approve the agenda as presented.

VOICE VOTE:  Motion carried
BPW-19-083  APPROVAL OF MINUTES

Moved by Commissioner Mahoney, seconded by Commissioner Snider, to approve the minutes of the Board of Public Works meeting held on July 11, 2019.

VOICE VOTE:  Motion carried

PUBLIC COMMENT ON AN AGENDA ITEM
None

PRESENTATIONS
Matthew Farrar presented the proposed Solid Waste Management System’s and the Regional Water System’s fiscal year 2020 overall budgets (Attached). Matthew Farrar spoke about the landfill expansion project. Matthew Farrar stated the proposed budget for the Regional Water System assumes the recommended rate increase to the users of the system by the Water System Policy Board. Matthew Farrar informed the Board they estimate the Channel Crossing project will total $10M when completed. Matthew Farrar stated the almost $9M Regional Water System capital spending for the next five years will be mostly construction projects.

Dave Johnson presented the proposed Wastewater Management System’s fiscal year 2020 budget. Dave Johnson spoke about capital improvement projects (Attached). Dave Johnson informed the Board they will be removing the J Station project due to possible grant funding. Dave Johnson informed the Board the proposed budget presented includes a 2% increase to the sewer rate. Dave Johnson stated the Wastewater User Group will vote on the increase at their next meeting. Dave Johnson clarified the 2% increase would be on the users’ wholesale sewer rate. Dave Johnson stated they also may look at increasing rates to grease trap haulers due to increase costs associated with the grease.

[Commissioner Nash excused at 4:26p.m.]

ITEMS FOR CONSIDERATION:

BPW-19-084  Approve to Submit Application for 2019/20 Scrap Tire Cleanup Grant

Moved by Commissioner Snider, seconded by Commissioner Wilkins, to authorize the Department of Public Works to submit an application to the Michigan Department of Environmental Quality 2019/20 Scrap Tire Cleanup Grant Program and authorize the use of Solid Waste Funds to pay for scheduled tire collection events in 2020.

Matthew Farrar informed the Board an additional event location was added so he will be applying for $54,000.00.

Roll call:
Yes - Hughes, Lahring, Mahoney Moore, Snider, Wilkins, Foster
No –
Excused – Nash, Scolnik [Scolnik stepped out at 4:47p.m.]
Motion carried
BPW-19-085   Approve the Cost Sharing Agreement for Phase 1 of the Channel Crossing Project

Moved by Commissioner Mahoney, seconded by Commissioner Snider, to approve the cost sharing agreement for Phase 1 of the Channel Crossing project between the County and the City of Muskegon and authorize the Chair and Clerk to sign the agreement.

Roll call:
Yes - Lahring, Mahoney Moore, Scolnik, Snider, Wilkins, Hughes, Foster
No –
Excused – Nash
Motion carried

BPW-19-086   Increase the Muskegon Channel Crossing Project Engineering Services Contract

Moved by Commissioner Snider, seconded by Commissioner Hughes, to increase the Muskegon Channel Crossing Project engineering services contract with J&A by $115,000, for a revised contract value of $634,253, and authorize the Board Chair to sign the contract amendment with all costs paid by the City of Muskegon.

Roll call:
Yes - Mahoney Moore, Scolnik, Snider, Wilkins, Hughes, Lahring, Foster
No –
Excused – Nash
Motion carried

BPW-19-087   Award Proposal to Upgrade and Expand SCADA Systems and Update PLCs

Moved by Commissioner Mahoney, seconded by Commissioner Snider, to accept the proposal from KISM to work with Solid Waste and Wastewater to develop a cost proposal to upgrade and expand their SCADA systems and update PLCs.

Dave Johnson stated only two of the vendors who submitted proposals met the specifications and the low of those two is recommended.

Roll call:
Yes - Moore, Scolnik, Snider, Wilkins, Hughes, Lahring, Mahoney, Foster
No –
Excused – Nash
Motion carried

BPW-19-088   Award Quote to Move Overhead Electrical Lines

Moved by Commissioner Hughes, seconded by Commissioner Wilkins, to accept the low quote for Move Overhead Electrical Lines from Windemuller, Inc., for $36,300.00.

Roll call:
Yes - Scolnik, Snider, Wilkins, Hughes, Lahring, Mahoney Moore, Foster
No –
Excused – Nash
Motion carried
BPW-19-089  Authorize to Add Construction Oversight Services / Swanson Road

Moved by Commissioner Wilkins, seconded by Commissioner Snider, to authorize Prein&Newhof to add construction oversight to its scope of engineering services provided for the Wastewater Department’s Swanson Road paving project at a cost not to exceed $153,000.00.

Dave Johnson was asked about bidding this job. Dave Johnson stated they are currently seeking qualifications for engineering services for the Wastewater. Those proposals are due next week. It was stated Wastewater is currently under contract with Prein&Newhof. Dave Johnson clarified this project will be from Apple Avenue to the fleet maintenance building.

Roll call:
Yes - Wilkins, Hughes, Lahring, Mahoney Moore, Scolnik, Snider, Foster
No –
Excused – Nash
Motion carried

BPW-19-090  Award Bid for Wastewater System Improvements/Swanson Road

Moved by Commissioner Hughes, seconded by Commissioner Wilkins, to accept the bid from Jackson-Merkey Contractors for IFB 19-2350, Wastewater System Improvements: Swanson Road, for a total of $2,149,528.40.

Roll call:
Yes - Snider, Wilkins, Hughes, Lahring, Mahoney Moore, Scolnik, Foster
No –
Excused – Nash
Motion carried

BPW-19-091  Adopt Wastewater 2019 Hunting and Trapping Rules & Authorize the Spring Youth Turkey Hunt, 2019 Liberty Hunt and DNR Waterfowl Hunt

Moved by Commissioner Hughes, seconded by Commissioner Mahoney, to adopt the attached 2019 Wastewater Hunting and Trapping Rules and authorize the spring youth turkey hunt, 2019 Liberty Hunt for youth (archery only) and DNR waterfowl hunt, the window of which will be expanded to include November 15 -30.

Administrator Eisenbarth informed the Board the rules were written by previous corporate counsel, Ted Williams.

VOICE VOTE: Motion carried

BPW-19-092  Informational Items:

The following informational items were received and placed on file:

OLD BUSINESS
Commissioners thanked staff for the tours of the various facilities.

NEW BUSINESS
Drain Commissioner Moore informed the Commissioners she would be giving an update on the Ribe Drain at an upcoming Ways & Means committee meeting.

Commissioner Hughes asked Matthew Farrar to check with the USDA Rural Development on possible grant funds for the landfill expansion project.

Chair Foster congratulated Supervisor Hodges on her recent marriage.

PUBLIC COMMENT ON A NEW ITEM
None

ADJOURN
There being no further business to come before the Board of Public Works the meeting was adjourned at 5:07p.m.

_____________________________________
Gary Foster, Chair
Requested FY2020 Budget

Solid Waste Management

Regional Water System
## Solid Waste Management Revenue

<table>
<thead>
<tr>
<th></th>
<th>FY2020</th>
<th>FY2019</th>
<th>FY2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil Erosion</td>
<td>$37,000</td>
<td>$37,000</td>
<td>$42,460</td>
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<tr>
<td>Tipping Fees</td>
<td>$3,324,000</td>
<td>$3,324,000</td>
<td>$3,429,675</td>
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<tr>
<td>Interest Earned</td>
<td>$128,000</td>
<td>$128,000</td>
<td>$158,834</td>
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<td>Gas Sales</td>
<td>$125,000</td>
<td>$125,000</td>
<td>$109,428</td>
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</table>
# Solid Waste Management Expenses

![Bar graph showing expenses across different fiscal years.]

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Salary &amp; Fringes</th>
<th>Utilities</th>
<th>Supplies</th>
<th>Contractual Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>FY2020</td>
<td>$1,289,572</td>
<td>$103,700</td>
<td>$381,700</td>
<td>$955,681</td>
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<tr>
<td>FY2019</td>
<td>$1,181,804</td>
<td>$106,600</td>
<td>$384,700</td>
<td>$727,181</td>
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<tr>
<td>FY2018</td>
<td>$1,340,607</td>
<td>$83,110</td>
<td>$185,003</td>
<td>$198,516</td>
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<tr>
<td>FY2017</td>
<td>$1,241,439</td>
<td>$89,460</td>
<td>$161,610</td>
<td>$207,765</td>
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<tr>
<td>FY2016</td>
<td>$1,297,707</td>
<td>$82,781</td>
<td>$173,638</td>
<td>$154,445</td>
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</table>
Began Engineering on Landfill Expansion
# Regional Water System Revenue

<table>
<thead>
<tr>
<th>Year</th>
<th>User &amp; Connection Fees</th>
<th>Interest Earned</th>
<th>Antenna Rent</th>
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</thead>
<tbody>
<tr>
<td>FY2020</td>
<td>$3,439,610</td>
<td>$82,343</td>
<td>$56,548</td>
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<tr>
<td>FY2019</td>
<td>$3,164,200</td>
<td>$82,343</td>
<td>$57,655</td>
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<tr>
<td>FY2018</td>
<td>$2,590,711</td>
<td>$74,682</td>
<td>$82,624</td>
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<td>FY2017</td>
<td>$2,869,211</td>
<td>$92,264</td>
<td>$81,181</td>
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<tr>
<td>FY2016</td>
<td>$3,002,008</td>
<td>$80,105</td>
<td>$75,300</td>
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</table>
# Regional Water System Expenses

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Salary &amp; Fringes</td>
<td>$296,422</td>
<td>$270,645</td>
<td>$326,056</td>
<td>$408,563</td>
<td>$283,353</td>
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<tr>
<td>Wholesale Water</td>
<td>$1,528,500</td>
<td>$1,528,500</td>
<td>$1,416,237</td>
<td>$1,460,035</td>
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<td>Contractual Services</td>
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<td>$384,204</td>
<td>$279,286</td>
<td>$260,541</td>
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<td>Bond Depreciation &amp; Interest</td>
<td>$717,503</td>
<td>$799,208</td>
<td>$888,204</td>
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<td>Supplies</td>
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<td>$118,605</td>
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<td>Project Description</td>
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<td>2021</td>
<td>2022</td>
<td>2023</td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
<td>--------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td><strong>Northside</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Hydrant Painting</td>
<td></td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
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<tr>
<td>Channel Crossing</td>
<td></td>
<td>90,000</td>
<td>7,100,000</td>
<td>-</td>
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<tr>
<td>Memorial Drive - Weber to Peterson Rd</td>
<td></td>
<td>-</td>
<td>1,300,000</td>
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<tr>
<td>PLC Upgrades at Giles P.S. and Tank</td>
<td></td>
<td>-</td>
<td>-</td>
<td>66,000</td>
<td></td>
</tr>
<tr>
<td>Tank Painting - Interior</td>
<td></td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>140,000</td>
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<tr>
<td><strong>Eastside</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrant Painting</td>
<td></td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
<td>5,000</td>
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<tr>
<td>Quarterline Tank Drain, Inspect and Wash</td>
<td></td>
<td>6,000</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>Tank Painting - Exterior &amp; Misc.</td>
<td></td>
<td>150,000</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Improvements</td>
<td></td>
<td>150,000</td>
<td>-</td>
<td>-</td>
<td>63,000</td>
</tr>
</tbody>
</table>
Total Regional Water System capital spending for the next five years:

$8.96M
QUESTIONS?
Muskegon County Wastewater Management System

Highlights of the 2020 Wastewater Budget
FY2020 WW Budget:
$23.5M

~$10M in Capital Spending,
with 2 new major
construction projects

The Re-Creation of J Station
J Station

What is the rationale for Re-creating the Station?

- **Primary Reason:** The wet well is undersized
- **Secondary Reason:** Significant safety improvements by redesigning the station from “Can” style to “Submersible” style.
A Can Style Lift Station

Can Style Station Safety Measures:

• Must don safety harness and attach cable for fall protection
• Must test air at bottom of dry well before descending
Estimated Price Tag for J Station: $2.85M

- New larger wet well
- Four new pumps
- New controls
- New controls building

Construction: Spring of 2020

The Transformation of South Station
South Station Weaknesses

The water from the East Storage Lagoon flows through a short pipeline into an open ditch
The ditch is 400 yards long

South Station lies at the far east end of the ditch
So What are the Weaknesses?

- When gate is opened to let water into the ditch from east storage lagoon, it's like opening up a drain on the lagoon. When the ditch is full, the pumps must be turned on to pump water out of ditch at the same rate that water enters ditch.
  - If Rate of Flow In > Rate of Flow Out, then Ditch Overflows
  - If Rate of Flow In < Rate of Flow Out, then Pumps Get Air-Bound
  - South Station Pumps Fail = Potential for Big Flood
  - One more weakness: The ditch fills with weeds!

The balancing act between Water In and Water Out is the responsibility of the Wastewater Irrigation Operator, whose position over the years has acquired the nickname, “Ditch Runner”.
Estimated Price Tag for South Station: $3.2M

- Replace ditch with outlet lagoon
- Four new 150 HP pumps
- New electrical
- Bar screen

Construction: Begin this winter; Complete by start of irrigation season in spring, 2020.

Other FY20 Capital Spending

- 3 Irrigation rig replacements
- One vehicle replacement
- No-till drill
- ICP-MS for laboratory

Plus Continued Spending from Previously Budgeted Projects

- SCADA  •  Swanson Rd.  •  Lab
Thank you for your attentiveness!

David Johnson
johnsonda@muskegoncounty.net

Wildlife photography by Commissioner Susie Hughes
(Used by permission)