

Muskegon County
Solid Waste Planning Committee
February 5, 2018
2:00 p.m.

Muskegon County Governmental Complex / Training Center – Room 119
97 E. Apple Avenue
Muskegon, Michigan 49442

Jim Fisher, Chair

Kim Arter, Vice Chair

MINUTES

CALL TO ORDER

The meeting was called to order by Chair Fisher at 2:00 p.m.

ROLL CALL

Present: William Crabtree, Wayne Kuerth, Kerry Rattinger, Kim Arter, Chris Hall, Sidney Shaw, Jim Fisher, Russ Jones, LeighAnn Mikesell, Doug Wood, Commissioner Foster

Excused: Jerry Garman, Kathy Evans, Terry Sladick

Absent:

Staff

Present: Greg Leverage, Solid Waste Supervisor; Tina Nash, Public Works Coordinator; Matthew Farrar, Public Works Director [arrived at 2:16PM]

Chair Fisher welcomed LeighAnn Mikesell and Doug Wood to the committee.

ELECTION OF OFFICERS

Chair Fisher expressed his interest in remaining Chair.

Moved by Commissioner Foster, to nominate Kim Arter for Chair.
Motion was withdrawn due to lack of support.

SWPC-18-001 Moved by Kerry Rattinger, seconded by Russ Jones, to retain Jim Fisher as Chair of the Solid Waste Planning Committee.

Jim Fisher accepted the nomination for Chair.

Voice Vote: **Motion carried**

Chair Fisher presiding.

Chair Fisher opened nominations for Vice-Chair of the Solid Waste Planning Committee.

SWPC-18-002 Moved by Commissioner Foster, seconded by Doug Wood, to retain Kim Arter as Vice-Chair of the Solid Waste Planning Committee.

Kim Arter accepted the nomination for Vice-Chair.

Voice Vote: **Motion carried**

Chair Fisher opened nominations for Secretary of the Solid Waste Planning Committee.

SWPC-18-003 Moved by William Crabtree, seconded by Kerry Rattinger, to retain Greg Leverence as Secretary of the Solid Waste Planning Committee.

Greg Leverence accepted the nomination for Secretary.

Voice Vote: **Motion carried**

APPROVAL OF THE MINUTES

SWPC-18-004 It was moved by Commissioner Foster, seconded by Kim Arter, to approve the minutes of the December 6, 2017 Solid Waste Planning Committee meeting.

Voice Vote: **Motion carried**

COMMUNICATIONS

None

SCHEDULED MATTERS

None

REPORTS OF COMMITTEES

A. Recycle Study Committee and Education Committee

Notes from the January 8, 2018 subcommittee meetings were distributed.

Commissioner Foster stated state grants were discussed. Greg Leverence stated there was discussion on the Recycle Study by GBB. Greg Leverence confirmed a savings of \$4,000 as reported. Chair Fisher stated there was discussion as to where to go with the Recycling Study and the basics of cost.

Chris Hall brought samples of the handouts (bags) with the Recycling Guide in them. Chris Hall stated they were a great educational resource. Kim Arter stated Laketon Township also hands out the Recycling Guide to the residents that visit the office and at all of their recycling events. Greg Leverence informed the committee that the Recycling Guides were delivered to the various municipalities in Muskegon County and also were distributed in a Sunday issue of the Muskegon Chronicle in 2017. There was discussion on the cost to print the Recycling Guides and updating the information. It was stated Carly Hines was looking into getting those costs; however she was not able to attend the meeting.

OLD BUSINESS

A. Recycle Study Final Output

Greg Leverence stated this was the final version of the Recycle Study from GBB.

NEW BUSINESS

Chair Fisher stated there would be an item E. / Transfer Station discussion.

A. Determine SWPC Meeting Location for 2018

SWPC-18-005 Moved by Chris Hall, seconded by Kim Arter, to keep the Solid Waste Planning meetings at the County South Complex.

Voice Vote: **Motion carried**

B. Determine Subcommittee Appointments

Chair Fisher stated there were questions as to whether we should or shouldn't continue with the Recycle Study Subcommittee. Commissioner Foster stated he felt the goals have been set at the

subcommittee level. Commissioner Foster stated the issues being discussed at the subcommittee level should be discussed as a committee. Kim Arter stated the subcommittee was developed to work on the Recycling Study by GBB and that is now done. Chair Fisher stated if we disband the subcommittee we should allow time at committee meetings to have healthy dialog. Sidney Shaw stated the committee meetings are quarterly and the idea was for the subcommittees to meet in between meetings to move things along. Commissioner Foster asked those on the subcommittees their thoughts. Kerry Rattinger agreed that the Recycling Study subcommittee was created to put GBB in a new direction. Kerry Rattinger stated the need for the subcommittee is based on how we move forward. Discussion regarding the subcommittees continued. It was decided to keep the subcommittees and only meet when needed at the call of the subcommittee Chair.

Chair Fisher appointed the following members to subcommittees:

Recycling Study Subcommittee (only will meet as needed)

Commissioner Foster (Chair), Kerry Rattinger, Wayne Kuerth, Russ Jones, Kim Arter, Jim Fisher, William Crabtree and Doug Wood

Education Subcommittee (only will meet as needed)

Kathy Evans (Chair), Sidney Shaw, Kerry Rattinger, Chris Hall, Jim Fisher and LeighAnn Mikesell

Chair Fisher stated he will leave the meeting schedules for the subcommittees up to the Chair of each subcommittee.

Chair Fisher confirmed the next committee meeting dates as May 7th, August 6th and November 5th at 2PM.

There was discussion as to the need for staff to attend the subcommittee meetings. Chair Fisher stated he would leave that up to Matthew Farrar to decide.

C. Determine Subcommittee Time(s)

The Chair of each subcommittee will determine.

D. Informational Items

1. SWSAP/GRC FAQ Sheet

Greg Leverage stated this is a frequently asked questions handout regarding the SWSAP/GRC and their role with proposed changes to Part 115. Katie Venechuck stated they are currently in the process of reviewing proposed legislative language to update Part 115. Katie Venechuck stated the FAQ talks about the two groups that put the recommendations together. Katie Venechuck noted the links in the FAQ which will take you directly to the sections you are interested in. Sidney Shaw

asked Katie Venechuck what this committee should be looking at as we move towards updating the Solid Waste Plan. Katie Venechuck stated this group should take a look at the recommendations for planning. Katie Venechuck stated there are a lot of changes being proposed. Sidney Shaw asked Greg Leverage if they were looking into this or if the County is relying on this group. Greg Leverage stated right now the Legislative Services Bureau is attempting to get a draft. Greg Leverage stated there's currently no sponsor for the bill. Katie Venechuck stated they have released "draft 3" for external use. Katie Venechuck stated they haven't seen the updated planning piece yet. Katie Venechuck didn't have a date. Greg Leverage stated as of now they don't know what the changes will be. Katie Venechuck stated she could send the "draft 3" language to Greg Leverage to share with the committee. Katie Venechuck informed the group of an informational session about the proposed changes on March 21st in Kalamazoo. Katie Venechuck stated she would share the information with the group. Sidney Shaw stated he would be interested in attending. Chair Fisher requested Sidney Shaw report back to the committee at the next meeting.

2. Governor Snyder Waste Fee Proposal

Matthew Farrar stated the State of Michigan is proposing to add a \$4.75 surcharge per ton to provide funding to various initiatives. Matthew Farrar stated he wanted to let this committee know this was out there. Discussion ensued about the proposal.

E. Transfer Station Discussion

Chair Fisher stated staff will investigate options for a central transfer station, which would be a central collection site for recyclables. Matthew Farrar stated one of GBB's recommendations was a transfer station. Matthew Farrar explained that all options regarding a transfer station would be looked at. Matthew Farrar stated staff could complete the study and it would take approximately two months to complete.

SWPC-18-006 Move by Commissioner Foster, seconded by Kim Arter, to allow staff to complete a transfer station analysis.

Voice Vote: **Motion carried**

AUDIENCE PARTICIPATION

Katie Venechuck thanked the committee for their feedback. Chair Fisher also thanked Katie Venechuck for attending the meeting and providing her input.

Sidney Shaw asked about the education grant that was discussed at the Education subcommittee. Chair Fisher stated they could put that on the agenda for the next Education subcommittee meeting.

Chair Fisher inquired about the grant for carts. Katie Venechuck stated the proposals are due March 7th. Chair Fisher asked LeighAnn Mikesell if that was a possibility for the City of Muskegon. LeighAnn Mikesell stated it may be.

ADJOURNMENT

There being no further business to come before the Solid Waste Planning Committee the meeting was adjourned at 2:56 p.m.

Jim Fisher, Chair

Muskegon County
Solid Waste Planning Committee
May 7, 2018
2:30 p.m.

Muskegon County Governmental Complex / Training Center – Room 119
97 E. Apple Avenue
Muskegon, Michigan 49442

Jim Fisher, Chair

Kim Arter, Vice Chair

MINUTES

CALL TO ORDER

The meeting was called to order by Chair Fisher at 2:36 p.m.

ROLL CALL

Present: Kim Arter, William Crabtree, Kathy Evans, Jim Fisher, Commissioner Foster,
LeighAnn Mikesell, Terry Sladick, Doug Wood

Excused: Russ Jones, Wayne Kuerth, Kerry Rattinger, Sidney Shaw

Absent: Jerry Garman, Chris Hall

Staff

Present: Greg Leverage, Solid Waste Supervisor; Tina Nash, Public Works Coordinator;
Matthew Farrar, Public Works Director; Robert Ribbens, Environmental Manager;
Carly Hines, Public Works Finance and Sustainability Administrator

APPROVAL OF THE MINUTES

SWPC-18-008 It was moved by Commissioner Foster, seconded by Terry Sladick, to
approve the minutes of the February 5, 2018 Solid Waste Planning
Committee meeting.

Voice Vote: **Motion carried**

COMMUNICATIONS

February 9, 2018 email from Katie Venechuk

Greg Leverence stated this is information he previously emailed to the group. Greg Leverence stated the email from Katie Venechuk addressed questions committee members had at the February 5, 2018 meeting.

Discussion ensued regarding Governor Snyder's waste fee proposal.

Chair Fisher asked LeighAnn Mikesell if the City of Muskegon applied for the cart grant. LeighAnn Mikesell stated they did not. LeighAnn Mikesell stated they are working with their contracted hauler to obtain totes. LeighAnn Mikesell stated they will be sending out a survey to the city residents to get their input on recycling services.

SCHEDULED MATTERS

None

REPORTS OF COMMITTEES

None

OLD BUSINESS

None

NEW BUSINESS

A. Recycle Transfer Station Update

Matthew Farrar and Greg Leverence gave an update on the transfer station analysis. Matthew Farrar stated he met with three haulers. Two of the haulers stated it would be beneficial to have a transfer station in Muskegon. Staff toured the Kent County North Kent Transfer Station and the Recycling and Education Center. Greg Leverence obtained additional data through various resources. Matthew Farrar stated they are still in the process of working on the analysis and they are looking at all options. Matthew Farrar stated getting the information has been difficult. Discussion ensued regarding the cost to recycle, types of recycled materials used in the data percentages, data from the GBB study, size of facility needed, the State's goals for recycling, marketing to other communities and the financial costs for such a facility (current and future).

LeighAnn Mikesell asked Matthew Farrar if they have looked into composting food waste. Matthew Farrar stated they have not. Carly Hines stated the Green Network for the White Lake Area is currently working with Spurt Industries and is trying this.

William Crabtree asked Matthew Farrar if we could charge a fee on all waste generated in Muskegon County to help pay for recycling. Matthew Farrar stated there's been a legal opinion on this and we cannot.

B. County Sustainability – Marketing Tools and Logos

Carly Hines presented current County sustainability marketing logos and tools used (attached).

- Website - sustainablemuskegon.org. Carly Hines covered the various types of hits the website has received.
- Festival and Event Recycling Initiative - Carly Hines stated Padnos donated the trailer and funding was provided by the Community Foundation and Arconic to purchase the recycling bins. Festival and events coordinators complete an application with a refundable deposit to reserve the bins. The festival and events are responsible for the cost to recycle the recyclable materials collected.
- Household Recycling and Disposal Guide – Carly Hines stated the guides continue to be updated. In 2017 15,000 guides were distributed in the Muskegon Chronicle. Guides are also distributed at various tire and recycling events and the municipalities have copies to give to residents.
- Social Media – Facebook, Pinterest and Twitter. Carly Hines stated she is working with the West Michigan Sustainable Business Forum to help promote the Sustainable Muskegon brand and bring education and networking events to Muskegon. This is funded by the Environmental Endowment Fund of the Community Foundation of Muskegon.
- Flyers – Tire Events and Household Hazardous Waste Events.

C. Informational Items

1. Subcommittee Meeting Immediately After SWPC Meeting Adjournment

Kathy Evans stated the Education subcommittee developed a mission statement. Kathy Evans mentioned the various types of branding being used and making it more uniform. Chair Fisher asked Matthew Farrar if there were funds available for marketing. Matthew Farrar clarified that spending of County funds has to be approved by the Public Works Board. Kathy Evans stated we need to come up with a message to make people want to recycle. Matthew Farrar mentioned possibly getting the schools involved.

AUDIENCE PARTICIPATION

LeighAnn Mikesell asked Carly Hines how the recycling bins for festivals and events are marketed. Carly Hines stated it is posted on the website and we reach out to the events being held at Heritage Landing. Carly Hines stated Whitehall has a set of 20 recycle bins for their events. Carly Hines stated they also use Facebook. LeighAnn Mikesell stated she would share this with the City of Muskegon's special events coordinator.

Chair Fisher stated the next meeting would be August 7th at 2PM.

ADJOURNMENT

There being no further business to come before the Solid Waste Planning Committee the meeting was adjourned at 3:36 p.m.

Jim Fisher, Chair



MUSKEGON COUNTY
SUSTAINABILITY

MARKETING TOOLS AND LOGOS

SUSTAINABLE MUSKEGON

SUSTAINABLEMUSKEGON.ORG



This website is intended to be a clearinghouse of information for Muskegon County residents and West Michiganders. We invite you to spend some time exploring the resources within, and encourage you to examine your ecological footprint, find ways to support local commerce and enrich your community.

Home Page – 38,425 Hits
Recycle Guide – 1,319 Hits

Energy Button on Home Page – 1,228 Hits
Recycling Button on Home Page – 1,233 Hits

FESTIVAL & EVENT RECYCLING INITIATIVE



In 2011, the Muskegon Area Sustainability Coalition coordinated efforts for recycling resources for outdoor festivals and events. The program began with the donation of a trailer from PADNOS Recycling, funding for the ClearStream recycle bins came from the Community Foundation for Muskegon County, and the signs for the bins were funded by Arconic.

The Muskegon County Department of Public Works houses and transports 80 recycle bins for the county and The Green Network in the White Lake Area houses and transports 15 recycle bins that can be used at various events and festivals throughout Muskegon County FOR FREE!

*Recyclables are the responsibility of the event/festival

MUSKEGON COUNTY HOUSEHOLD RECYCLING AND DISPOSAL GUIDE



Over 15,000 printed and distributed to Muskegon County residents in 2017

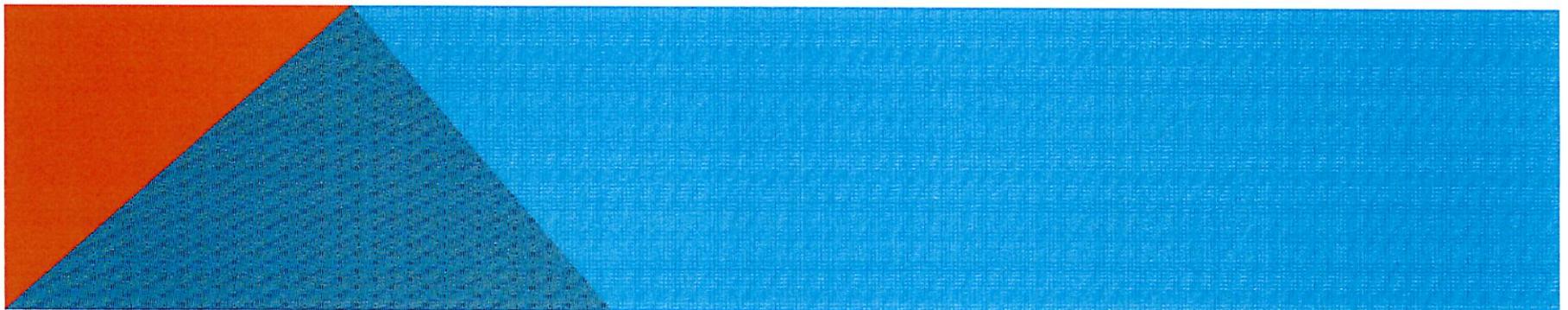
SOCIAL MEDIA

Facebook - facebook.com/sustainablemuskegon – 412 followers

Pinterest - pinterest.com/SustainMKG – 3,056 avg. monthly viewers

Twitter – twitter.com/SustainMKG – 145 following

Muskegon County is partnering with the West Michigan Sustainable Business Forum to utilize funding from the Environmental Endowment Fund of the Community Foundation of Muskegon County for a shared capacity investment in partnership with Grand Valley State University to assist the Muskegon County sustainability program with publicity, recycling education and networking in Muskegon County.



TIRE AND HOUSEHOLD HAZARDOUS WASTE RECYCLING EVENT FLYERS

2018 Muskegon County Tire Collection Events

Funding for these **FREE** events provided by Michigan Department of Environmental Quality 2018 Scrap Tire Grant.

All events listed below are available to Muskegon County Residents ONLY. NO business waste; business waste will be turned away.

Events will accept car and truck tires up to 34" in diameter, with or without rims.

If inclement weather should occur, site coordinators will determine the halt or closing of the event.



Saturday, May 12th 9AM-2PM
Fruitport Township Hall Fire Station
5865 Airline Road
Fruitport, MI 49415

Saturday, April 21 9AM-2PM
Casnovia
577 Canada,
Casnovia, MI 49318

Saturday, May 5th 9AM-2PM
Mullally Park
1850 Horton Road
Muskegon, MI 49445

Saturday, June 2nd 9AM-2PM
Whitehall High School
3100 White Lake Drive
Whitehall, MI 49461

Saturday, May 19th 9AM-2PM
Cedar Creek Township Hall
6556 Sweater Road
Twin Lake, MI 49457

For more information, please contact:

Muskegon County Solid Waste Management at 231-724-6002



MUSKEGON COUNTY RECYCLING EVENT

4th Saturday in April & 3rd Saturday in October

from 9am-1pm



RAIN OR SHINE*

FREE TO COUNTY RESIDENTS ONLY
BUSINESS WASTE AND REGULAR TRASH NOT ACCEPTED**

Our neighbor, **Beacon Recycling**, will also be open during these events to accept metals, appliances, and more! (standard rates apply) www.beaconrecycling.com

SCRAP TIRES

No larger than 34" in diameter (car and truck tires only) and no more than 10 tires per household (with or without rims).

HAZARDOUS WASTE

Including mercury, petroleum products, antifreeze, pesticides, herbicides, acids, bases, CFL and fluorescent light bulbs, and oil based paint products. Must be in containers no greater than 6 gallons; NO drums of any kind. Latex paint will not be accepted!

ELECTRONICS

Including computers, peripherals, TV's, and other electronic devices. Visit: <http://www.goodwillwa.org/recycle/reuse/computer-recycling/> for a full listing of accepted items. *Please note CRT TV's WILL be accepted for this event

SENSITIVE DOCUMENT SHREDDING

Bring up to 100 lbs of sensitive documents (paper clips and staples ok) to have shredded.

*Severe weather may cause a halt or shut down of the event as determined by the event coordinator.
**Event staff reserve the right to limit any collected materials and refuse apparent business waste.



VISIT: WWW.CO.MUSKEGON.MI.US/HHW OR CALL: 231-724-6001



Funding for this event:
Muskegon County Solid Waste
Muskegon County Sustainability Office



HHW Events and regular Friday collections are also advertised in the Muskegon Chronicle

Muskegon County
Solid Waste Planning Committee
August 6, 2018
2:00 p.m.

Muskegon County Governmental Complex / Training Center – Room 119
97 E. Apple Avenue
Muskegon, Michigan 49442

Jim Fisher, Chair

Kim Arter, Vice Chair

MINUTES

CALL TO ORDER

The meeting was called to order by Chair Fisher at 2:00 p.m.

ROLL CALL

Present: William Crabtree, Kathy Evans, Jim Fisher, Commissioner Foster, Chris Hall,
LeighAnn Mikesell, Kerry Rattinger, Sidney Shaw, Doug Wood

Excused: Kim Arter, Jerry Garman, Russ Jones, Terry Sladick,

Absent: Wayne Kuerth

Staff

Present: Greg Leverage, Solid Waste Supervisor; Tina Nash, Public Works Coordinator;
Matthew Farrar, Public Works Director; Robert Ribbens, Environmental Manager;
Carly Hines, Public Works Finance and Sustainability Administrator

APPROVAL OF THE MINUTES

SWPC-18-009 It was moved by LeighAnn Mikesell, seconded by Commissioner Foster, to
approve the minutes of the May 7, 2018 Solid Waste Planning Committee
meeting.

Voice Vote: **Motion carried**

COMMUNICATIONS

None

SCHEDULED MATTERS

None

REPORTS OF COMMITTEES

Education Sub-Committee / Kathy Evans

Kathy Evans stated the sub-committee met twice. They talked about the goal to increase recycling to 30%, reviewed current marketing tools, met with a Watch Us Go staff member and discussed other URL's they may want to use. It was suggested to link recycling with beauty and the benefits it would have to the community. It was discussed to break down the task of increasing recycling into phases with Phase I concentrating on highly populated areas that have a recycling program in place such as Muskegon Township and the City of Muskegon.

Carly Hines stated they also spoke about educating the residents regarding the quality of the recycled items. Robert Ribbens mentioned the frequency of curbside recycling (weekly, bi-weekly, and monthly) and the overall impact on the environment.

OLD BUSINESS

None

NEW BUSINESS

A. Muskegon Township Curbside Recycle Program

Matthew Farrar introduced Jeff Wood, Muskegon Township Treasurer and Jennifer Hernandez, Muskegon Township Supervisor. Matthew Farrar stated Muskegon Township has a transfer station and felt it was important to talk to them regarding their trash and recycling program.

Jeff Wood stated they started a recycle program in Muskegon Township about 18+ years ago. Muskegon Township currently has a contract with Republic for recycling. Muskegon Township runs a garbage service (since 1972) that is offered only to the residents of Muskegon Township. Jeff Wood stated the residents are not obligated to use the township for trash removal. Residents may use another company if they choose. In the beginning residents who used the township for trash removal could also sign up for recycling and they would get a bin. Muskegon Township now uses 95 gallon carts for recycling. The carts are picked up by Republic every 4 weeks. Residents who sign up to use the township for their trash removal automatically get a cart for recycling and get a flyer that explains what can be recycled and how to recycle. Jeff Wood estimates about 1 out of every 4 or 5 township residents recycle. Jeff Wood stated recycling is part of the township's trash removal service and there is no additional cost to recycle.

Kathy Evans asked Jeff Wood if Muskegon Township offered services to all areas within the township. Jeff Wood stated they do. Chris Hall asked if residents in the rural areas of Muskegon Township recycled as much as the residents in more dense areas. Jennifer Hernandez stated it depends on the area. Jeff Wood stated demographics also play a part. Carly Hines asked Jeff Wood if they have seen a reduction in the amount of garbage collected. Jeff Wood stated the amount of garbage collected has gone down a little bit. Matthew Farrar asked Jeff Wood the costs for recycling. Jeff Wood stated they have a 10 year contract with Republic with built in increases but currently Muskegon Township pays \$2.40 per customer per month. Jennifer Hernandez stated when a township resident signs up for garbage service; they are informed that the cost to recycle is included in the cost for garbage service. When residents find this out they are more willing to give recycling a try.

Kerry Rattinger stated a survey was done a number of years ago and the number one reason why people don't recycle was it took too much effort. Kerry Rattinger stated by switching to the carts it has made it easier for customers to recycle. Kerry Rattinger stated the more people in a neighborhood who recycle, it places pressure on others to also recycle and the carts stand out more.

Doug Wood asked Jeff Wood if the cost of garbage service was a tax to the residents. Jeff Wood stated it is billed as a utility. Doug Wood asked Jeff Wood if Muskegon Township subsidized the waste/recycling program. Jeff Wood stated the township does not.

Chair Fisher asked what the \$2.40 covered. Jeff Wood stated the \$2.40 is what is paid to Republic per township customer. Jeff Wood stated trash/recycling service is \$49.00 per quarter. Jennifer Hernandez stated Muskegon Township pays Republic the \$2.40 whether a township customer recycles or not.

Chris Hall asked Jeff Wood if they store the recycle carts. Jeff Wood stated they do have a small quantity on hand at their DPW site.

Chair Fisher stated Muskegon Township has a good program in place.

B. Republic Services Chef Container/Westshore Recycling Acquisition

Kerry Rattinger informed the committee that Republic purchased Chef. Kerry Rattinger provided the committee with a background of the services Chef provided and the operation of the facility. Kerry Rattinger stated Chef did not have a big presence in Muskegon.

Greg Leverence asked if they will operate as a dirty MRF. Kerry Rattinger stated it is way too early in the process to be able to answer that question.

Kerry Rattinger passed out two handouts (attached) regarding the impact of the China Sword. Kerry Rattinger stated China used to take 40% to 50% of the recycled material and

they have now stopped. The material that is being accepted has to be ½ of 1 percent contamination or less. This has caused processing centers to have a lot of extra material. Kerry Rattinger stated this is causing a lot of issues ranging from getting contamination down to finding new markets for the collected materials. Kerry Rattinger stated this will cause costs to go up and impact the haulers. Kerry Rattinger stated Kent County approved increasing their rates from \$40 to \$70 beginning January 1st.

Doug Wood stated one of the problems is many companies label their products with a recycling symbol and not all products can be recycled. Doug Wood stated if there is not a market, those materials end up in a landfill. Discussion ensued regarding the challenges recycling facilities face, the declining market value of recycled materials, the China Sword and the overall cost to recycle.

C. Preliminary Recyclables Transfer Station Review

Matthew Farrar stated he has been working with Greg Leverage on a transfer station cost breakdown. Matthew Farrar stated they looked at many figures and today's cost to recycle would be \$126.00 per ton. Matthew Farrar stated they looked at one landfill rate and at \$32.00 per ton that could cover trash and recycling. Matthew Farrar explained as recycling increases and trash decrease the total landfill rate would increase to \$60.00 per ton if recycling reaches 30%. Matthew Farrar stated this would be for a new transfer station and they will next look at the costs of an existing transfer station.

Matthew Farrar stated they still want to create a culture of recycling in Muskegon. Matthew Farrar stated there are many obstacles we face.

Chair Fisher went around the room and got everyone's thoughts on the information presented.

Chair Fisher reminded everyone the next meeting is the first Monday of November.

AUDIENCE PARTICIPATION

None

ADJOURNMENT

There being no further business to come before the Solid Waste Planning Committee the meeting was adjourned at 3:55 p.m.

Effects on Current Recycling Businesses

Collection Prices do not cover costs

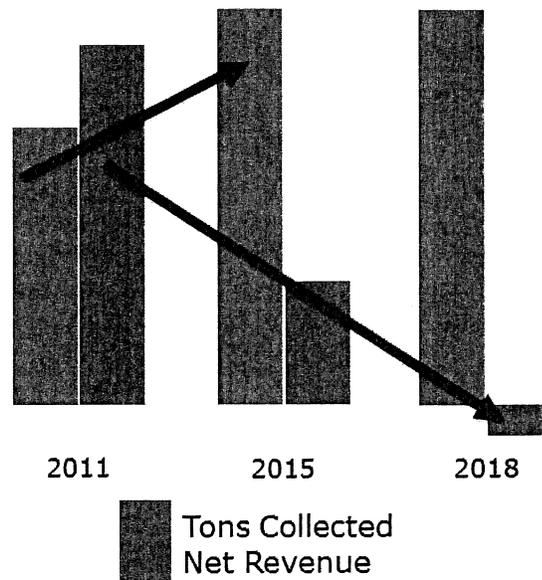
- Unable to subsidize from commodity sales after China Sword

Light-weighting leads to more items per load

- We have more material to process per ton

Lack of Public Education and Contamination drives additional costs

- Cross contamination
- Disposal costs from residual



Working harder to process more tons, for a negative net revenue

1

China Sword Immediate Impacts

- Adjusted processing speeds to improve quality of sorted material
 - As a result, some facilities are unable to handle daily material volume
- Adding human resources to our sort lines, and increasing self-inspections to further reduce contamination
- Exploring investments in newer, more accurate sorting technology (in select markets)
- Actively exploring other domestic and international markets
 - Many are flooded by the global industry shifting away from China

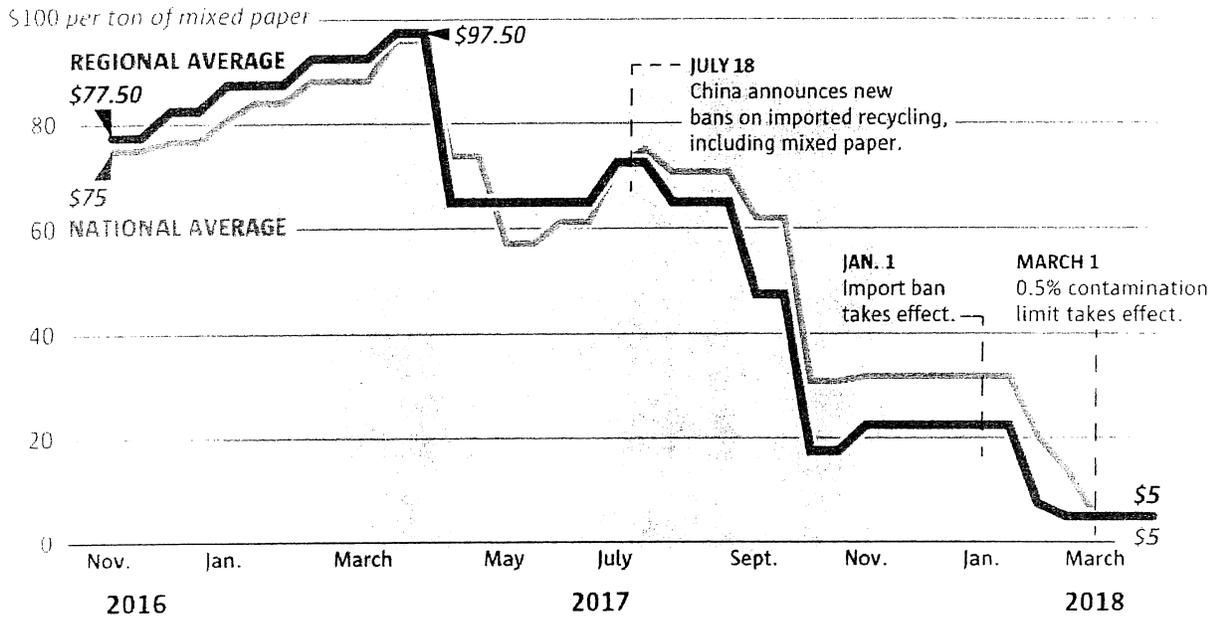


Jan 2018 – Processed bales in Northwest, without market buyers, deteriorated by weather

While we continue to process mixed paper and old newsprint, we are proactively evaluating the need to dispose of excess material that deteriorates beyond the point of commercial value, or poses safety risks

China closes the door, prices crash

The average price paid to recyclers for a ton of mixed paper in the Pacific Northwest and across North America has plummeted in the last year.



Source: RecyclingMarkets.net

EMILY M. ENG / THE SEATTLE TIMES

China Sword Explained

For decades, China has been the largest importer of the world's recycled commodity, and the U.S. was 40% of the inbound stream.

In 2017, China announced efforts to clean up the country, which included dramatic changes for acceptance criteria of imported recyclables.

- A significant reduction in acceptable contamination levels (From ~3% to 0.5%) in any recovered paper and plastic grades.



- Additionally, China banned all mixed paper from import, regardless of contamination levels. (20% of historical stream).



Reductions took effect in March 2018, and drive costs and changes at most recycling facilities in the country to meet new standards