



# Manistee County Board of Commissioners

Manistee County Courthouse • 415 Third Street • Manistee, Michigan 49660

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(231) 723-3331

CONTROLLER/ADMINISTRATOR

Thomas Kaminski  
(231)398-3504

## MANISTEE COUNTY GREEN TEAM/RECYCLING COMMITTEE

Thursday, May 26, 2016  
3:00 P.M.

Manistee County Courthouse & Government Center  
Board of Commissioners Meeting Room

### AGENDA

- 1) Sarah Archer - P.A. 69 Recycling Update (APPENDIX A)
- 2) Energy Reports (Courthouse, Sheriff's Department, Health Department) (APPENDIX B)
- 3) Other Items From Committee Members
- 4) Adjournment

# APPENDIX A

## Manistee County Green Team Recycling Program Report – May 26, 2016 Sarah Archer, Iris Waste Diversion Specialists, Inc.

The following is a summary of Recycling Program activity since the April Green Team meeting.

### Meeting Attendance

- Green Team – April 28
- Manistee Chapter Michigan Townships Association Annual Dinner – May 25

### Current Volume Report

Total weight (pounds) of materials collected from 5 recycling drop-off sites.

|          |        |       |        |           |  |          |               |         |
|----------|--------|-------|--------|-----------|--|----------|---------------|---------|
| January  | 45,020 | April | 35,460 | July      |  | October  |               |         |
| February | 36,760 | May   |        | August    |  | November |               |         |
| March    | 42,080 | June  |        | September |  | December |               |         |
|          |        |       |        |           |  |          | Total To-Date | 159,320 |

- April 2016 volume was down from April 2015 by 7%.
- Total Year to Date Program costs are \$1,029.43 lower than 2015.

### Education

- Monthly e-newsletters sent – May
- In keeping with the theme, “Safe and Secure Counties”, HHW and battery recycling information was provided for display during National County Government Month at the County building.

### Operations

- A request has been made with Facilities to install the message center at Springdale Township.
- Recyclables from the PA69 recycling program are now being delivered by Area 31 Recycling to the Material Recovery Facility owned and operated by American Waste in Traverse City.
- The Onekama site monitor has resigned and a new site monitor is being recruited.
- Multiple incidents of illegal dumping of non-acceptable items at the Onekama Township recycling site were reported to the Sheriff. The culprit was contacted by a Sheriff's Deputy and advised to stop dumping and recycle properly. The Sheriff's office discussed these situations with the County Prosecutor's office and they will not prosecute these types of complaints of dumping unaccepted materials but may prosecute if someone is dumping normal garbage and caught on camera.

### Other

- FY 2016-2017 budget request has been submitted to County Administrator/Controller.
- Regional Recycling Initiative - Tim Ervin (AES) anticipates hearing about decision to fund the grant proposal for a Federal Business Development Grant submitted on February 28.

- Sarah attended the annual conference of the Michigan Recycling Coalition/Governor's Recycling Summit held in Plymouth from May 3-5. Some points of interest:
  - Highlights of 2014 Measurement Study results (funded with DEQ recycling grant)
    - Michigan's recycling rate is 15.3%
    - The recycling industry directly supports 35,954 jobs
      - Which represents 1.74% of total employment in Michigan
    - The recycling industry represents 2.56% of Michigan's total economic output
  - There is a shift from weight/volume goals to carbon impact goals when measuring resource recovery activities. With the loss of materials (i.e., newspapers), weight and size reductions in product packaging, and the introduction of non-recyclable hybrid packaging (i.e., food and beverage "pouches") weight/volume based diversion goals may be a challenge to achieve or may falsely indicate stagnation in recycling rates/participation.
  - Organic materials (food scraps, wasted food) are the next target for recovery and diversion since they represent over 40% of materials sent to landfill each year.
  - Industry experts indicated the need to develop a "circular economy" that develops infrastructure, creates policy and supports the entire chain. The example: the Canadian government incentivized farmers to buy solar panels for on farm energy generation. Policy was implemented to require Canadian built components. This fueled and funded the solar industry.

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| JANUARY               | LBS             | % Change from Previous Month |
|-----------------------|-----------------|------------------------------|
| Arcadia Twp           | 7,568.0         | -25%                         |
| Betsie Valley         | 10,010.0        | -6%                          |
| Brown Twp             | 6,741.0         | 3%                           |
| Maple Grove Twp       | 6,440.0         | -54%                         |
| Onekama Twp           | 14,261.0        | 7%                           |
| <b>JANUARY TOTALS</b> | <b>45,020.0</b> | <b>-18%</b>                  |

| FEBRUARY               | LBS             | % Change from Previous Month |
|------------------------|-----------------|------------------------------|
| Arcadia Twp            | 7,906.0         | 4%                           |
| Betsie Valley          | 8,127.0         | -19%                         |
| Brown Twp              | 5,440.0         | -19%                         |
| Maple Grove Twp        | 4,465.0         | -31%                         |
| Onekama Twp            | 10,822.0        | -24%                         |
| <b>FEBRUARY TOTALS</b> | <b>36,760.0</b> | <b>-18%</b>                  |

| MARCH               | LBS             | % Change from Previous Month |
|---------------------|-----------------|------------------------------|
| Arcadia Twp         | 9,257.0         | 17%                          |
| Betsie Valley       | 7,993.0         | -2%                          |
| Brown Twp           | 5,617.0         | 3%                           |
| Maple Grove Twp     | 5,505.0         | 23%                          |
| Onekama Twp         | 13,708.0        | 27%                          |
| <b>MARCH TOTALS</b> | <b>42,080.0</b> | <b>14%</b>                   |

| APRIL               | LBS             | % Change from Previous Month |
|---------------------|-----------------|------------------------------|
| Arcadia Twp         | 8,150.0         | -12%                         |
| Brown Twp           | 4,845.0         | -14%                         |
| Maple Grove Twp     | 5,117.0         | -7%                          |
| Onekama Twp         | 12,041.0        | -12%                         |
| Springdale Twp      | 5,307.0         | -34%                         |
| <b>APRIL TOTALS</b> | <b>35,460.0</b> | <b>-16%</b>                  |

| MAY               | LBS | % Change from Previous Month |
|-------------------|-----|------------------------------|
| Arcadia Twp       |     |                              |
| Brown Twp         |     |                              |
| Maple Grove Twp   |     |                              |
| Onekama Twp       |     |                              |
| Springdale Twp    |     |                              |
| <b>MAY TOTALS</b> |     |                              |

| JUNE               | LBS | % Change from Previous Month |
|--------------------|-----|------------------------------|
| Arcadia Twp        |     |                              |
| Brown Twp          |     |                              |
| Maple Grove Twp    |     |                              |
| Onekama Twp        |     |                              |
| Springdale Twp     |     |                              |
| <b>JUNE TOTALS</b> |     |                              |

| JULY              | LBS | % Change from Previous Month |
|-------------------|-----|------------------------------|
| Arcadia Twp       |     |                              |
| Brown Twp         |     |                              |
| Maple Grove Twp   |     |                              |
| Onekama Twp       |     |                              |
| Springdale Twp    |     |                              |
| <b>JULY TOTAL</b> |     |                              |

| AUGUST              | LBS | % Change from Previous Month |
|---------------------|-----|------------------------------|
| Arcadia Twp         |     |                              |
| Brown Twp           |     |                              |
| Maple Grove Twp     |     |                              |
| Onekama Twp         |     |                              |
| Springdale Twp      |     |                              |
| <b>AUGUST TOTAL</b> |     |                              |

| SEPTEMBER              | LBS | % Change from Previous Month |
|------------------------|-----|------------------------------|
| Arcadia Twp            |     |                              |
| Brown Twp              |     |                              |
| Maple Grove Twp        |     |                              |
| Onekama Twp            |     |                              |
| Springdale Twp         |     |                              |
| <b>SEPTEMBER TOTAL</b> |     |                              |

| OCTOBER              | LBS | % Change from Previous Month |
|----------------------|-----|------------------------------|
| Arcadia Twp          |     |                              |
| Brown Twp            |     |                              |
| Maple Grove Twp      |     |                              |
| Onekama Twp          |     |                              |
| Springdale Twp       |     |                              |
| <b>OCTOBER TOTAL</b> |     |                              |

| NOVEMBER              | LBS | % Change from Previous Month |
|-----------------------|-----|------------------------------|
| Arcadia Twp           |     |                              |
| Brown Twp             |     |                              |
| Maple Grove Twp       |     |                              |
| Onekama Twp           |     |                              |
| Springdale Twp        |     |                              |
| <b>NOVEMBER TOTAL</b> |     |                              |

| DECEMBER              | LBS | % Change from Previous Month |
|-----------------------|-----|------------------------------|
| Arcadia Twp           |     |                              |
| Brown Twp             |     |                              |
| Maple Grove Twp       |     |                              |
| Onekama Twp           |     |                              |
| Springdale Twp        |     |                              |
| <b>DECEMBER TOTAL</b> |     |                              |

|                               |                  |
|-------------------------------|------------------|
| <b>YEAR TO DATE (in lbs.)</b> | <b>159,320.0</b> |
| <b>YEAR TO DATE (tons)</b>    | <b>79.7</b>      |

# APPENDIX B

Green Team Reports  
 Date Generated: 05/24/2016 01:27 PM EDT  
 Number of properties in report: 1

| Property Id | Property Name                      | Year Ending | Electricity Use - Grid Purchase (kWh) | Natural Gas Use (therms) | Energy Cost (\$) | Energy Cost Intensity (\$/M <sup>2</sup> ) | Total Water Cost (All Water Sources) (\$) | Electricity (Grid Purchase) Cost (\$) | Natural Gas Cost (\$) | Water Use (All Water Sources) (gall) | Total GHG Emissions (Metric Tons CO2e) |
|-------------|------------------------------------|-------------|---------------------------------------|--------------------------|------------------|--|---|---------------------------------------|-----------------------|--------------------------------------|--|
| 1417438     | Manistee County, MI - Courthouse & | 2/29/2016   | 309816                                | 13498.95402              | 52404.85         | 1.36                                       | 4972.7                                    | 41951.48                              | 10453.37              | 172.9                                | 301.9                                  |
| 1417438     | Manistee County, MI - Courthouse & | 2/29/2015   | 314026.3                              | 15079.16344              | 56230.26         | 1.45                                       | 4498.56                                   | 42802.61                              | 13427.64              | 190.3                                | 313.4                                  |

# Courthouse Year Ending 2/29/16

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Green Team Reports  
 Date Generated: 05/24/2016 01:29 PM EDT  
 Number of properties in report: 1

| Property Id | Property Name                           | Year Ending | Electricity Use - Grid Purchase (kWh) | Natural Gas Use (therms) | Energy Cost (\$) | Energy Cost Intensity (\$/ft <sup>2</sup> ) | Total Water Cost (All Water Sources) (\$) | Electricity (Grid Purchase) Cost (\$) | Natural Gas Cost (\$) | Water Use (All Water Sources) (gall) | Total GHG Emissions (Metric Tons CO2e) |
|-------------|---|-------------|---------------------------------------|--------------------------|------------------|---|---|---------------------------------------|-----------------------|--------------------------------------|--|
| 1707153     | Manistee County, MI - Health Department | 2/29/2016   | 71683.9                               | 2061.849625              | 12824.84         | 1.19  | 1294.48                                   | 11073.39                              | 1751.45               | 53.1                                 | 64.2                                   |
| 1707153     | Manistee County, MI - Health Department | 2/28/2015   | 78505.2                               | 2530.047641              | 14254.77         | 1.32  | 1208.92                                   | 11699.8                               | 2554.97               | 81.3                                 | 71.8                                   |

# Health Department

## Year Ending 2/29/16

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Green Team Reports  
 Date Generated: 05/24/2016 03:32 PM EDT  
 Number of properties in report: 1

| Property Id | Property Name                          | Year Ending | Electricity Use - Grid Purchase (kWh) | Natural Gas Use (therms) | Energy Cost (\$) | Energy Cost Intensity (\$/sq ft) | Total Water Cost (All Water Sources) (\$) | Electricity (Grid Purchase) Cost (\$) | Natural Gas Cost (\$) | Water Use (All Water Sources) (gals) | Total GHG Emissions (Metric Tons CO2e) |
|-------------|--|-------------|---------------------------------------|--------------------------|------------------|----------------------------------|---|---------------------------------------|-----------------------|--------------------------------------|--|
| 1424945     | Manistee County, MI - Sheriff's Office | 2/29/2016   | 448884.9                              | 19566.84454              | 64179.76         | 2.69                             | 10813.13                                  | 53619.75                              | 10560.01              | 1297.9                               | 437.5                                  |
| 1424945     | Manistee County, MI - Sheriff's Office | 2/28/2015   | 433280.9                              | 23541.57097              | 69053.09         | 2.89                             | 13863.23                                  | 52806.21                              | 16246.88              | 1328.4                               | 447                                    |

# Sheriff's Office & Jail Year Ending 2/29/16