Fall 2018 Solid Waste Interested Parties (SWIP) Meeting

Tuesday
October 30th, 2018
<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00</td>
<td>Welcome</td>
<td>Joe Van Rossum</td>
</tr>
<tr>
<td>10:05</td>
<td>WMM Program updates</td>
<td>Joe Van Rossum</td>
</tr>
<tr>
<td></td>
<td>Staffing updates</td>
<td></td>
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<td></td>
<td>Program updates</td>
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<td></td>
<td>Guidance/web content document updates</td>
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<tr>
<td></td>
<td>Financial update</td>
<td></td>
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<tr>
<td>10:30</td>
<td>EPA Region 5 update</td>
<td>Kate Strom-Hiorns</td>
</tr>
<tr>
<td>10:40</td>
<td>Illinois Special (Solid) Waste Reporting for e-manifest</td>
<td>Kate Strom-Hiorns</td>
</tr>
<tr>
<td>10:50</td>
<td>Landfill siting and capacity status</td>
<td>Valerie Joosten</td>
</tr>
<tr>
<td>11:00</td>
<td>Common compliance issues at solid waste facilities</td>
<td>Valerie Joosten &amp; Casey Lamensky</td>
</tr>
<tr>
<td>11:15</td>
<td>Deer carcass disposal</td>
<td>Natasha Gwidt &amp; Dan Kroll</td>
</tr>
<tr>
<td>11:30</td>
<td>Recycling tonnage report and update</td>
<td>Jennifer Semrau</td>
</tr>
<tr>
<td>11:40</td>
<td>Beneficial Use of Industrial Byproducts Rule Package</td>
<td>Phil Fauble</td>
</tr>
<tr>
<td>11:45</td>
<td>Questions</td>
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</tbody>
</table>
WMM Program Updates

Joe Van Rossum
Program Updates

• Rule Making
  – NR 514 RD&D Rule
    • Public hearing/comment
    • NRB in December
    • Leg. Review early 2019
  – CCR – State Permit Program
  – NR 538 – update later
  – NR 600 series
Program Updates

- **E-cycle & Recycling RU Workshop**
  - Nov. 15 – Kenosha
  - Disaster debris mgmt. during lunch

- **PFAS/PFOA**
  - Class of chemicals – emerging environmental concerns
  - Multiple programs engaged
  - Dept formulating a strategy
Staffing Update

• Retirements/Departures
  – Ken Hein - WMS
  – Matt Matrise – BS&IT Section Chief
  – Jill Schoen – WCR
  – Joe Baeten - SER
  – Scott Szymanski – HWS
  – Cari Pagel – Reg. EPA
  – Katie Andrus – Reg. EPA
New Hires

- John Morris – WCR Supervisor
- Trevor Nobile – SER Supervisor
- Jennifer Bowen – Reg. EPA SER
- Ariana Mankarian – Recycling Data
- Dustin Sholly – OFR
- Pilar Gomez – GIS specialist
Upcoming Recruitments

- BS&IT Section Chief
- Haz Waste Specialist – CO & Eau Claire
- Hydrogeologist – tbd
- WMS – SER
- Regional EPA – WCR/NER
- WM Engineer Entry - tbd
Guidance Documents

- Feasibility Checklists
- New tonnage fee table
- Glass management guidance
- Exempt soil management w/RR
Guidance Documents

- Groundwater monitoring
- Shingle processor guidance
- Steel slag exemption guidance

- Open Burning
  - Updated [website](#)
  - [Tool](#) to determine if burning is allowed or may be allowed with approval
Solid Waste Program
Revenue

Annual update per NR 520.04(1)(d)(5)
## Program Revenue Account Status

<table>
<thead>
<tr>
<th></th>
<th>FY 17 Actual</th>
<th>FY 18 Actual</th>
<th>FY19 Estimated</th>
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<tbody>
<tr>
<td><strong>Opening Balance</strong></td>
<td>$ 211,891</td>
<td>$ 246,704</td>
<td>$ 366,116</td>
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<tr>
<td><strong>Revenue Sources</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SW landfill license surcharge</td>
<td>$ 1,016,582</td>
<td>$ 1,043,227</td>
<td>$ 1,000,000</td>
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<tr>
<td>SW landfill licenses</td>
<td>$ 475,865</td>
<td>$ 370,974</td>
<td>$ 540,000</td>
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<tr>
<td>SW C &amp; T licenses</td>
<td>$ 239,084</td>
<td>$ 422,184</td>
<td>$ 390,000</td>
</tr>
<tr>
<td>SW disposal other licenses (i.e. Non-Landfill Facilities)</td>
<td>$ 120,010</td>
<td>$ 139,961</td>
<td>$ 126,000</td>
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<tr>
<td>SW plan review fees</td>
<td>$ 365,240</td>
<td>$ 346,370</td>
<td>$ 350,000</td>
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<tr>
<td>HW facilities licenses</td>
<td>$ 89,600</td>
<td>$ 90,000</td>
<td>$ 67,000</td>
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<tr>
<td>HW transporter licenses</td>
<td>$ 85,250</td>
<td>$ 81,721</td>
<td>$ 83,000</td>
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<tr>
<td>HW plan review fees</td>
<td>$ 1,600</td>
<td>$ -</td>
<td>$ 8,000</td>
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<tr>
<td>HW manifest fee</td>
<td>$ 144,978</td>
<td>$ 138,966</td>
<td>$ 115,000</td>
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<tr>
<td>SW Facility Oper/Mgr Cert Fees</td>
<td>$ 28,795</td>
<td>$ 28,550</td>
<td>$ 25,000</td>
</tr>
<tr>
<td>Misc (i.e. infect &amp; medical waste / copying sales / printing)</td>
<td>$ 6,319</td>
<td>$ 115,959</td>
<td>$ 35,200</td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td>$ 2,573,323</td>
<td>$ 2,777,912</td>
<td>$ 2,739,200</td>
</tr>
<tr>
<td><strong>Total Available</strong>: (All Revenue Sources + Opening Balance)</td>
<td>$ 2,785,214</td>
<td>$ 3,024,616</td>
<td>$ 3,105,316</td>
</tr>
<tr>
<td><strong>Total Expenditures</strong></td>
<td>(2,258,606)</td>
<td>(2,740,129)</td>
<td>(2,591,700)</td>
</tr>
<tr>
<td><strong>Total Expenditures &amp; Budget Lapses</strong></td>
<td>(2,258,606)</td>
<td>(2,740,129)</td>
<td>(2,591,700)</td>
</tr>
<tr>
<td>DOA adjustments to A/R Accounts</td>
<td>(279,904)</td>
<td>$ 81,629</td>
<td></td>
</tr>
<tr>
<td><strong>Closing Balance</strong></td>
<td>$ 246,704</td>
<td>$ 366,116</td>
<td>$ 513,616</td>
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</table>
If, for 3 consecutive fiscal years the PR Account Balance is >20% of the Expenditure Level, the DNR must propose rule revisions to lower the landfill license fee surcharge.

NR 520.04(1)(d)5

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Expenditure Level (dg)</th>
<th>20% Cap</th>
<th>PR Account Balance</th>
<th>Actual % (PR Account Bal / Expenditure Level)</th>
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<tbody>
<tr>
<td>FY15</td>
<td>$2,576,300</td>
<td>$515,260</td>
<td>$174,826</td>
<td>6.79%</td>
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<tr>
<td>FY16</td>
<td>$2,576,300</td>
<td>$515,260</td>
<td>$211,900</td>
<td>8.22%</td>
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<tr>
<td>FY17</td>
<td>$2,591,700</td>
<td>$518,340</td>
<td>$246,704</td>
<td>9.52%</td>
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<tr>
<td>FY18</td>
<td>$2,591,700</td>
<td>$518,340</td>
<td>$366,116</td>
<td>14.13%</td>
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<tr>
<td>FY19-estimated</td>
<td>$2,591,700</td>
<td>$518,340</td>
<td>$513,616</td>
<td>19.82%</td>
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</tbody>
</table>
Landfill Tonnage

Yearly Totals (all waste categories in tons)
Landfill Tonnage

Yearly Totals (Category 01 in tons)

- 2007
- 2008
- 2009
- 2010
- 2011
- 2012
- 2013
- 2014
- 2015
- 2016
- 2017

Tonnage values range from high in 2007 to lower in subsequent years.
EPA Region 5
Update
Kate Strom Hiorns
U.S. EPA Region 5 Subtitle D and Sustainable Materials Management Meeting

September 27, 2018

WI, MN, MI, IL, OH, and IN

- Construction and demolition landfills and waste reduction
- Coal combustion residual (CCR) rule making in MI, IN
- IL’s online recycling info – ready 11/1
EPA’s planned regional focus:

- Market development of recyclable materials
- Food waste outlet information
- Connecting states on PFAS research and management; post-closure care of landfills
Illinois Special (Solid) Waste Reporting for e-manifest

Kate Strom Hiorns
E-Manifest

New electronic manifest form to be used by all generators who transport, or offer for transport, hazardous waste for off-site treatment, recycling, storage or disposal.
E-Manifest

Illinois also requires several non-hazardous materials to be manifested on this form by receiving facilities

- https://dnr.wi.gov/topic/Waste/Manifest.html

- Amy Walden, HW Program Specialist amy.walden@wisconsin.gov
Landfill Siting and Capacity Status

Valerie Joosten
Landfill Capacity and Siting

Common goal to maintain adequate disposal capacity in WI while protecting human health and the environment.

Requires:
- Planning (5 – 7 year + Siting Process)
- Timely, quality submittals and review (DNR goal of 95% decisions issued on time)
Landfill Capacity Status

End of Year Landfill Capacity

<table>
<thead>
<tr>
<th>Year</th>
<th>Capacity Remaining (CY)</th>
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<tbody>
<tr>
<td>CY 2008</td>
<td>122,273,354 CY</td>
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<tr>
<td>CY 2009</td>
<td>125,542,760 CY</td>
</tr>
<tr>
<td>CY 2010</td>
<td>130,000,000 CY</td>
</tr>
<tr>
<td>CY 2011</td>
<td>135,000,000 CY</td>
</tr>
<tr>
<td>CY 2012</td>
<td>140,000,000 CY</td>
</tr>
<tr>
<td>CY 2013</td>
<td>141,525,621 CY</td>
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<tr>
<td>CY 2014</td>
<td>122,273,354 CY</td>
</tr>
<tr>
<td>CY 2015</td>
<td>125,542,760 CY</td>
</tr>
<tr>
<td>CY 2016</td>
<td>130,000,000 CY</td>
</tr>
<tr>
<td>CY 2017</td>
<td>135,000,000 CY</td>
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</tbody>
</table>

End of Year Landfill Capacity
Landfill Siting

Facilities in Siting Process by Year

*FY19 data as of 10/25/18 and includes submittals expected by end of Fiscal Year (FY = June – July)
Common Compliance Issues at Solid Waste Facilities

Valerie Joosten & Casey Lamensky
Inspections and Compliance

- Inspection frequency schedule
- Standard processes

**Inspection**
- File review
- Monitoring data review
- Sit down
- Site Inspection
- Inspection checklists / code / conditions
- Recap

**Document and Evaluate**
- Finalize and Send Report
- No follow-up required
  - No Action & Close-out

**Compliance Action**
- Follow-up required
- Notice of Non-compliance (typical)
  OR
- Secondary Enforcement (e.g. NOV)
DNR Compliance Inspections
(July 2017 – June 2018)

109 Active Landfill Inspections

Typical Non-Compliance
- Operating in accordance with Plan of Operation
- Leachate management & line cleaning
- Daily cover
- Phasing / closure costs
- Timely closure
- Env. monitoring
- Certified manager
- Prohibited waste
DNR Compliance Inspections
(July 2017 – June 2018)

212 Closed Landfill Inspections

Typical Non-Compliance
- Vegetation and cover soil
- Monitoring wells labeled and protected
- Signage
34 Processing Compliance Inspection Results

- 88% No Action
- 12% Notice of Non-compliance
- 0% Secondary Enforcement

47 Woodburning Compliance Inspection Results

- 72% No Action
- 28% Notice of Non-compliance
- 0% Secondary Enforcement
DNR Inspections
(July 2017 – June 2018)

78 Compost Compliance Inspection Results

- 31% Notice of Non-compliance
- 69% Secondary Enforcement
- 0% No Action

15 MRF Compliance Inspection Results

- 93% Secondary Enforcement
- 0% Notice of Non-compliance
- 7% No Action
DNR Inspections
(July 2017 – June 2018)

59 Transfer Compliance Inspection Results
- No Action: 90%
- Notice of Non-compliance: 8%
- Secondary Enforcement: 2%

5 Storage Compliance Inspection Results
- No Action: 80%
- Notice of Non-compliance: 20%
- Secondary Enforcement: 0%
Solid Waste Facilities
Typical Non-Compliance

✓ Compost – storm water, pathogen reduction (temp.)

✓ Transfer Stations – storage > 24 hr

✓ Woodburning – 100’ firebreak

✓ Processing – signage, not operating per plan/conditions
Deer Carcass Disposal

Natasha Gwidt
Deer Waste Disposal Sites

Webpage

- [https://dnr.wi.gov/topic/hunt/landfillmap.html](https://dnr.wi.gov/topic/hunt/landfillmap.html)
Recycling Tonnage Report Update

Jennifer Semrau
Recycling Data: RU

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<tbody>
<tr>
<td>Mandatory Reporting - Banned</td>
<td>58,294</td>
<td>49,185</td>
<td>71,716</td>
<td>45,556</td>
<td>54,323</td>
<td>52,976</td>
<td>55,918</td>
<td>48,041</td>
<td>74,833</td>
<td>74,198</td>
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<tr>
<td>Old corrugated cardboard (OCC)</td>
<td>222,584</td>
<td>218,036</td>
<td>225,231</td>
<td>213,714</td>
<td>206,659</td>
<td>208,220</td>
<td>185,267</td>
<td>195,460</td>
<td>192,002</td>
<td>194,674</td>
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<tr>
<td>All other paper</td>
<td>3,611</td>
<td>4,043</td>
<td>4,081</td>
<td>11,123</td>
<td>8,902</td>
<td>10,752</td>
<td>11,494</td>
<td>6,162</td>
<td>6,241</td>
<td>6,515</td>
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<tr>
<td>Aluminum containers</td>
<td>11,860</td>
<td>11,959</td>
<td>11,848</td>
<td>15,690</td>
<td>14,536</td>
<td>18,032</td>
<td>18,282</td>
<td>17,763</td>
<td>17,963</td>
<td>16,756</td>
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<tr>
<td>Steel (tin)/bimetal containers</td>
<td>93,402</td>
<td>90,333</td>
<td>79,538</td>
<td>84,430</td>
<td>81,662</td>
<td>92,297</td>
<td>98,572</td>
<td>91,724</td>
<td>95,438</td>
<td>91,872</td>
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<tr>
<td>Plastic containers #1-7</td>
<td>33,810</td>
<td>37,016</td>
<td>27,598</td>
<td>26,140</td>
<td>26,097</td>
<td>29,599</td>
<td>33,905</td>
<td>30,962</td>
<td>31,832</td>
<td>37,481</td>
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<tr>
<td>Co-mingled materials</td>
<td>50</td>
<td>54</td>
<td>24</td>
<td>66</td>
<td>79</td>
<td>67</td>
<td>20</td>
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<tr>
<td>Total Mandatory Reporting</td>
<td>423,661</td>
<td>410,443</td>
<td>420,047</td>
<td>395,703</td>
<td>390,824</td>
<td>412,899</td>
<td>412,767</td>
<td>410,192</td>
<td>418,376</td>
<td>421,526</td>
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Optional Reporting - Banned

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<tr>
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<tr>
<td>Appliances</td>
<td>5,271</td>
<td>4,322</td>
<td>4,045</td>
<td>4,204</td>
<td>3,769</td>
<td>4,512</td>
<td>4,793</td>
<td>4,844</td>
<td>5,417</td>
<td>5,562</td>
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<tr>
<td>Tires</td>
<td>5,512</td>
<td>5,297</td>
<td>6,923</td>
<td>5,207</td>
<td>5,124</td>
<td>5,466</td>
<td>4,812</td>
<td>6,023</td>
<td>5,333</td>
<td>4,504</td>
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<tr>
<td>Batteries (lead acid)</td>
<td>962</td>
<td>604</td>
<td>468</td>
<td>728</td>
<td>375</td>
<td>304</td>
<td>3,132</td>
<td>323</td>
<td>225</td>
<td>242</td>
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<tr>
<td>Used oil</td>
<td>5,206</td>
<td>2,750</td>
<td>2,709</td>
<td>2,536</td>
<td>2,589</td>
<td>2,207</td>
<td>2,260</td>
<td>2,026</td>
<td>1,943</td>
<td>1,766</td>
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<tr>
<td>Electronics</td>
<td>2,366</td>
<td>3,572</td>
<td>3,705</td>
<td>7,552</td>
<td>4,131</td>
<td>4,478</td>
<td>5,401</td>
<td>5,232</td>
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<tr>
<td>Subtotal Option Reporting - Banned w/o Yard Waste</td>
<td>16,952</td>
<td>12,972</td>
<td>16,511</td>
<td>15,759</td>
<td>20,035</td>
<td>19,511</td>
<td>17,698</td>
<td>18,319</td>
<td>17,307</td>
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<tr>
<td>Yard waste</td>
<td>275,869</td>
<td>270,546</td>
<td>260,474</td>
<td>242,731</td>
<td>250,021</td>
<td>259,291</td>
<td>277,955</td>
<td>279,141</td>
<td>251,394</td>
<td>240,007</td>
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<tr>
<td>Total optional reporting (banned items)</td>
<td>292,821</td>
<td>283,918</td>
<td>277,258</td>
<td>258,978</td>
<td>265,776</td>
<td>279,326</td>
<td>297,466</td>
<td>256,840</td>
<td>269,713</td>
<td>257,314</td>
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<tr>
<td>Subtotal Tons (All banned material)</td>
<td>716,482</td>
<td>694,361</td>
<td>697,305</td>
<td>693,681</td>
<td>656,600</td>
<td>692,225</td>
<td>710,233</td>
<td>707,031</td>
<td>688,089</td>
<td>678,839</td>
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</table>

Optional Reporting - Non-Banned

<table>
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<tr>
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<tbody>
<tr>
<td>Scrap metal</td>
<td>18,047</td>
<td>13,808</td>
<td>22,849</td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Used clothing/textiles</td>
<td>351</td>
<td>559</td>
<td>420</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Electronics</td>
<td>1,307</td>
<td>1,633</td>
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<tr>
<td>Total Optional Non-Banned</td>
<td>19,705</td>
<td>16,000</td>
<td>23,269</td>
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Total Mandatory Reporting

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<td>412,767</td>
<td>410,192</td>
<td>418,376</td>
<td>421,526</td>
</tr>
<tr>
<td>Total All Optional Reporting</td>
<td>312,526</td>
<td>299,918</td>
<td>300,527</td>
<td>258,978</td>
<td>265,776</td>
<td>279,326</td>
<td>297,466</td>
<td>256,840</td>
<td>269,713</td>
<td>257,314</td>
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<tr>
<td>Tons reported</td>
<td>735,187</td>
<td>710,361</td>
<td>700,574</td>
<td>655,681</td>
<td>665,600</td>
<td>692,225</td>
<td>710,233</td>
<td>707,031</td>
<td>688,089</td>
<td>678,839</td>
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</table>

WI Population

<table>
<thead>
<tr>
<th></th>
<th>5,675,156</th>
<th>5,688,040</th>
<th>5,686,986</th>
<th>5,694,236</th>
<th>5,703,525</th>
<th>5,717,110</th>
<th>5,753,810</th>
<th>5,771,098</th>
<th>5,796,288</th>
<th>5,804,426</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per capita mandatory reporting (lbs)</td>
<td>149</td>
<td>144</td>
<td>148</td>
<td>139</td>
<td>137</td>
<td>144</td>
<td>143</td>
<td>142</td>
<td>144</td>
<td>145</td>
</tr>
<tr>
<td>Per capita total (lbs)</td>
<td>259</td>
<td>250</td>
<td>253</td>
<td>230</td>
<td>242</td>
<td>247</td>
<td>245</td>
<td>237</td>
<td>234</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
- From 2008 to 2010, the DNR changed the format of the Recycling Accomplishments and Actual Costs Annual Report completed by recycling responsible units (RUs). As a result, the breakdown by material for the mandatory reporting was based on percentages of these materials shipped by the facilities that process residential recyclables. Direct comparisons of tons by material type for 2008 through 2010 and
- *Wisconsin Recycling Law bars these materials from landfills
- *Includes some non-banned paper, primarily excised paper
- *Variances - released from bans
- *Electronics were banned from landfills starting in 2010
Recycling Data: RU

All Recyclable Materials Collected by Responsible Units 2008-2017

Tons in Thousands

- Residential Paper & Containers
- Appliances, Tires, Batteries & Oil
- Yard Waste
- Miscellaneous Recyclables *
Recycling Data: RU

Trends of Table 1 Recyclable Materials by Commodity 2008-2017

- Old corrugated cardboard (OCC)
- All other paper2
- Aluminum containers
- Glass containers
- Steel (tin)/bimetal containers
- Plastic containers #1-7
Recycling Data: MRF

**MRF Table 1 Material Tonnages 2008-2017**

<table>
<thead>
<tr>
<th>Year</th>
<th>All other paper</th>
<th>OCC</th>
<th>Glass containers</th>
<th>Plastic containers #1-7</th>
<th>Steel (tin)/bimetal containers</th>
<th>Aluminum containers</th>
<th>Total Tonnages (from MRF reports)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>351,450.35</td>
<td>246,266.16</td>
<td>96,445.73</td>
<td>34,416.08</td>
<td>14,526.44</td>
<td>6,524.16</td>
<td>749,715.63</td>
</tr>
<tr>
<td>2009</td>
<td>329,251.16</td>
<td>236,716.43</td>
<td>89,869.38</td>
<td>35,281.17</td>
<td>15,801.67</td>
<td>6,921.64</td>
<td>714,136.60</td>
</tr>
<tr>
<td>2010</td>
<td>324,957.00</td>
<td>245,755.35</td>
<td>96,607.63</td>
<td>33,441.51</td>
<td>15,381.74</td>
<td>6,865.03</td>
<td>723,416.67</td>
</tr>
<tr>
<td>2011</td>
<td>396,185.49</td>
<td>190,980.98</td>
<td>98,607.08</td>
<td>43,690.59</td>
<td>18,044.46</td>
<td>7,152.53</td>
<td>754,897.63</td>
</tr>
<tr>
<td>2012</td>
<td>340,421.58</td>
<td>242,912.88</td>
<td>102,808.63</td>
<td>42,471.44</td>
<td>15,520.22</td>
<td>8,425.12</td>
<td>752,563.77</td>
</tr>
<tr>
<td>2013</td>
<td>367,312.18</td>
<td>234,042.44</td>
<td>121,675.57</td>
<td>43,868.07</td>
<td>18,330.26</td>
<td>10,011.80</td>
<td>795,243.59</td>
</tr>
<tr>
<td>2014</td>
<td>374,579.22</td>
<td>244,590.50</td>
<td>133,836.06</td>
<td>47,239.11</td>
<td>20,382.51</td>
<td>9,394.82</td>
<td>830,025.58</td>
</tr>
<tr>
<td>2015</td>
<td>304,613.35</td>
<td>234,108.39</td>
<td>126,301.47</td>
<td>41,482.39</td>
<td>23,435.81</td>
<td>8,316.12</td>
<td>738,261.54</td>
</tr>
<tr>
<td>2016</td>
<td>286,453.45</td>
<td>223,963.60</td>
<td>127,463.08</td>
<td>40,450.25</td>
<td>26,677.92</td>
<td>10,492.13</td>
<td>715,504.33</td>
</tr>
<tr>
<td>2017</td>
<td>303,154.95</td>
<td>218,755.36</td>
<td>127,940.19</td>
<td>43,825.37</td>
<td>16,850.91</td>
<td>7,622.10</td>
<td>718,153.62</td>
</tr>
</tbody>
</table>
# Recycling Data: MRF

**Wisconsin Recyclable Materials Reported by MRFs (in tons)**

<table>
<thead>
<tr>
<th>Mandatory Reporting - Banned</th>
<th>2016</th>
<th>2017</th>
<th>PRD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Old corrugated cardboard (OCC)</td>
<td>223,963.60</td>
<td>218,755.36</td>
<td>-2.35%</td>
</tr>
<tr>
<td>All other paper</td>
<td>286,453.45</td>
<td>303,154.95</td>
<td>5.67%</td>
</tr>
<tr>
<td>Aluminum containers</td>
<td>10,492.13</td>
<td>7,622.10</td>
<td>-31.69%</td>
</tr>
<tr>
<td>Steel (tin)/bimetal containers</td>
<td>26,677.92</td>
<td>16,850.91</td>
<td>-45.15%</td>
</tr>
<tr>
<td>Glass containers</td>
<td>127,463.08</td>
<td>127,940.19</td>
<td>0.37%</td>
</tr>
<tr>
<td>Plastic containers #1-7</td>
<td>40,450.25</td>
<td>43,825.37</td>
<td>8.01%</td>
</tr>
<tr>
<td>Foam polystyrene packaging</td>
<td>3.90</td>
<td>4.74</td>
<td>19.44%</td>
</tr>
<tr>
<td><strong>Total Tonnage</strong></td>
<td><strong>715,504.33</strong></td>
<td><strong>718,153.62</strong></td>
<td><strong>0.37%</strong></td>
</tr>
</tbody>
</table>

1. Wisconsin Recycling Law bans these materials from landfills
2. Includes some non-banned paper, primarily residential mixed paper
3. Variance - released from bans

***Removal of scrap metal dealers/MRFs caused significant impact

85 MRFs reported in 2016
46 in 2017
MRF Stakeholder Meeting

• WI MRF impacts from China’s importation restrictions/National Sword
• Held Aug. 15th at DNR office, Madison
• In-person and webinar options
• Nearly 50% of MRFs in attendance
• Public/private owned and operated, various facility sizes, geographical representation, single-stream/dual-stream/source separated
• Presentations online at https://dnr.wi.gov/topic/Recycling/MRF.html
• Very positive feedback from attendees
Materials Recovery Facility (MRF) Stakeholder Meeting:
WI MRF Impacts Resulting from China’s Importation Restrictions/National Sword

AGENDA

9:00  Check-in/Networking (*light breakfast refreshments served*)

9:15  China’s importation restrictions and impact on world recycling markets, *Jennifer Semrau, DNR*

9:35  Review of WI’s recycling law/landfill bans, *Jennifer Semrau, DNR*

9:45  Review of MRF requirements for outside storage, *Casey Lamensky, DNR*

10:00 MRF Operations Presentations/Discussion

1. Advanced Disposal, *Jeff Zillich*
2. Eagle Waste and Recycling, *Alan Albee*
3. Milwaukee/Waukesha MRF, *Analiese Smith, Waukesha County*
4. Outagamie (Tri) County MRF, *Ryan McNichols*
5. Pellitteri Waste Systems, *David Pellitteri*
6. Waste Management, *Lynn Morgan*

11:00 Open MRF Discussion: operational changes made to improve quality, best management practices, labor securing retaining, marketing tips, etc.

11:15 Networking Break

11:30 Available Resources for MRFs: Markets, Labor, Education, etc.

12:00 Discussion: Statewide education campaign

What can DNR do to assist?

Can all MRFs agree to some common messaging (NO _________)?

What formats will you use/be most helpful (flyer, 1/3-page mailer, webpage, video, social media)?

12:30 Adjourn
Difficult to Move Materials

Which of the following materials have you had trouble marketing over the last 3 months?
Problematic Contamination

Biggest sources of contamination

- Plastic bags/film
- Food contamination
- Cords/light strings/tanglers
- Bulky plastic (non-...
- Needles/sharps
- Foam polystyrene
- Propane cylinders
- Scrap metal
MRF Stakeholder Meeting: Next Steps

- Post event evaluation form
- Annual MRF Stakeholder meeting; electronic educational pieces
- Challenging for DNR to educate “what to recycle” (beyond bans)
- Statewide education campaign: Recycle Right
  - Back to Basics
  - New recycling hierarchy
  - Anti-contamination communication plan
  - ‘Wish-cycling’ posts on social media
Questions?

Jennifer Semrau  
Waste Reduction & Diversion Coordinator  
608-267-7550  
Jennifer.Semrau@wisconsin.gov
Beneficial Use of Industrial Byproducts
Rule Revision

Phil Fauble
NR 538 Wis. Adm. Code-Beneficial Use of Industrial Byproducts

Basic Outline of Current Rule:

- Initial Certification – Generator submits ASTM water leach test and totals analysis; based on results, byproduct is assigned a category (1-5)
- List of approved uses for each category; largely self-implementing
- Concurrence from DNR for larger fill projects (5000 cubic yards) and case-specific
- Annual reporting of amounts used
- Periodic re-characterization
Revisions: Potential Changes

Revised focus away from numeric standards and towards improved reporting and tracking:

• Add legitimacy criteria
• Eliminate categories
• Simplified standards based on exposure risks and groundwater model
• Expanded annual reporting (who and where)
• DNR-developed GIS database
• Addition of procedure for excavating fill sites
Revisions: Potential Changes

Beneficial Uses:

• Streamline DOT uses (embankments, abrasives, etc.) and align terminology and standards with DOT

• Add uses for agricultural fill (CAFOS) and mine reclamation

• Add uses for soil additive/amendment
  – Liming agents (LKD)
  – FGD gypsum

• Iron and steel slag references removed from rules (Act 285)
Progress To Date

• Technical Advisory Committee has met 9 times since March, 2016
• Final TAC Meeting on September 18, 2018; accepted comments until October 26, 2018
• Responding to comments; final draft for fiscal estimate (FE/EIA); then public comments and hearing
• Final rule by February 2020
Questions?

Philip Fauble, WDNR, Beneficial Use Coordinator
(608) 267-3538
philip.fauble@wisconsin.gov
Questions?

Slides and Future Meetings: DNR.wi.gov search “SWIP”