



# WASTE MANAGEMENT

IOTENATATKWÉNIENS NE ONKWANÁ:TAKON

## Mohawk Council of Kahnawà:ke

Annual Progress Report for Redevice Funding  
Waste Management Plan Action Items  
Period April 2017 to March 2018

Mohawk Council of Kahnawà:ke  
Waste Management Department – Public Works  
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April 30, 2018

As required by the Redevice program, this Annual Progress Report outlines the progress of action item activities undertaken for the period of April 2017 to March 2018, as identified in the Kahnawà:ke's 2016 – 2020 Waste Management Plan.

## **An Overview of Waste Management 2017-2018**

### **Progress**

2017 was a very productive year, as the Mohawk Council of Kahnawake – Waste Management Department purchased an automated recycling truck and distributed 360 liter blue bins to the community improving recycling weights by 10%..

Improvements to composting infrastructure were made, and a skid steer and other supporting equipment for composting were purchased to begin processing kitchen scraps. Organics collection began for the Elders Lodge living quarters, with 730 Kg collected. Community and back-yard composting continues to be a planning priority.

The following table further outlines the initiatives and activities that have taken place by Kahnawà:ke's Waste Management Department within this reporting period.

Reporting period: March 2016 to April 2017

| Action Plan Item | Action / Measure   | Description  | Responsible   | Schedule                   | Progress    | Commentary   |
|------------------|--|--|---|----------------------------|-------------|--|
| 1                | <b>Reduce by 30% the volume of the residential solid waste sent to landfill.</b>                             |  |   |                            |             |  |
| 1.1              | <b>Collection Frequency</b>  | Evaluate the possibility to reduce waste collection frequency to once every two weeks.   | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2019-2020                  | 2019-2020   | Following the completion of a survey waste/composting/recycling survey. This action aims to encourage people to further compost and use the recycling program for waste reduction.   |
| 2                | <b>Recover 60 % of organic material, through home composting initiatives and organic collection service.</b> |  |   |                            |             |  |
| 2.1              | <b>Backyard composting and grass-cycling and mulching program</b>  | Community workshops on how to recycle and to be present at community events              | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | Every 2 <sup>nd</sup> year | On going    | <p>A demonstration composter was constructed at the Language center garden which was followed up with compost workshop on site, for the Radio station and Language center employees as well as the Language center students.</p> <p>A second composting workshop was held at the community park and was covered by the MCK communications department and can be viewed on YouTube: <a href="https://www.youtube.com/watch?v=PDOY8h3Fggo">https://www.youtube.com/watch?v=PDOY8h3Fggo</a></p> <p>2 additional compost workshops were done. One was held at the Kahnawà:ke Library and a second was held at an after school program for the youth.</p> |
| 2.2              | <b>Residential and ICI composting survey</b>   | To develop baseline information to assist with the expansion of composting in Kahnawà:ke | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016                       | In progress | <ul style="list-style-type: none"> <li>The survey was initiated in November of 2016</li> <li>361 residential surveys were completed by March 30, 2018</li> <li>156 Homes participated in back yard composting.</li> </ul>  |

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|------------------|---|---|---|------------------------------------|--|--|
| 2.3              | <b>Community composting</b>   | <p>Yard waste, pumpkins, woodchips, yard clippings (small branches).</p> <p>Expansion will include increased frequency in turning of compost, increase in the material types accepted, and an increase in the quantity of incoming materials.</p> | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | yearly                             | On-going<br>100% of community has access to yard waste composting at the Transfer depot. | <ul style="list-style-type: none"> <li>3 Composting bays have been constructed at the Transfer Depot site and a skid steer was purchased in November 2017 to process materials along with a scale and thermometer to collect data. Expansion of the site will continue into 2018</li> <li>Kitchen material collection began in February 2018 from the Turtle Bay Elders lodge and other locations. The Turtle Bay Elders Lodge is a Residence for 15 Elders. The lodge is also doing food preparation for the Kateri Memorial Hospital on an interim basis until expansion construction is complete. Breakfast for 30 individuals, Lunch for 60 individuals and Supper for 15 individuals is the regular daily schedule.</li> <li>729.62 kg of organic kitchen waste was collected February to the end of March and is being processed at the Transfer Depot.</li> </ul> |
| 2.4              | <b>Evaluate the possibility of offering a source separated organics pick-up service</b> | Decision on best way to proceed will follow the survey (2.2).   | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017                               | On going   | <ul style="list-style-type: none"> <li>Waiting on compost survey completion before decisions are made for residential collection</li> <li>Project planning and design is underway to determine the needs to move forward.</li> </ul>   |
| 2.5              | <b>Communications - organic recovery program education</b>                              | <p>Information sessions, how to compost and troubleshooting, waste reduction.</p> <p>Publication of all the information on the web site, on radio, TV and other medias.</p>   | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 and every 2 <sup>nd</sup> yr. | On-going   | <ul style="list-style-type: none"> <li>Hired a Communications Liaison to assist with communications</li> <li>Four (4) Informational kiosks were held</li> <li>Participated in 3 Radio Talk shows</li> <li>Website and information pamphlets were up-dated with new information</li> <li><a href="http://WWW.Kahnawake.com/wastemanagement">WWW.Kahnawake.com/wastemanagement</a></li> <li>Several Public service announcements, newspaper articles.</li> </ul>   |

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|------------------|--|---|--|----------|-----------------------------|---|
| 3                | <b>Recycle 100% of municipal bio-solids</b>  |   |  |          |                             |   |
| 3.1              | <b>Recycle municipal sludge for agricultural use, with or without additional treatment</b>   | Valorization of Bio-solids  | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke  | 2016     | <b>Complete</b><br>On-going | <ul style="list-style-type: none"> <li>• 98.37 metric tons of sludge has been valorized through the land application program for 2017-2018</li> <li>• 100% of Sewage Treatment Plant sludge continues to be valorized.</li> </ul> |
| 3.2              | <b>Implement a septic tank cleaning program on a regular basis, based on needs (number of people and volume of the tank) database.</b> | <p>The existing registry will be improved to identify and quantify all septic systems within the community. Location, capacity, last cleaning date, and functioning status will be compiled for each of them.</p> <p>Valorization of sludge will be required in the cleaning contract/ agreement, or the possibility to discharge the septic sludge at the treatment plant – to be evaluated.</p> | <p>Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke</p> <p>Infrastructure Operations Maintenance Manager - Mohawk Council of Kahnawà:ke</p> | 2018     | 2018                        | To be initiated in 2018   |
| 3.3              | <b>Septic system maintenance booklet.</b>  | This booklet will be distributed to all owners of an individual septic system, and publicized on the MCK website.   | Kahnawà:ke Waste Management Department & Infrastructure Operations Maintenance Manager   | 2017     | In progress                 | A draft version has been prepared, is undergoing review and design.   |

| Action Plan Item | Action / Measure   | Description  | Responsible   | Schedule          | Progress   | Commentary   |
|------------------|--|--|---|-------------------|--|--|
| 4                | <b>Improve efficiency of the recycling program in order to Recycle 70 % of paper, cardboard, plastic, glass, and metal</b> |  |   |                   |  |  |
| 4.1              | <b>Increased recyclable collection efficiency</b>  | Buy a rear load garbage truck<br><br>Find solutions to recover valuable material (pop cans), and material currently collected but not accepted at the sorting center (clothes, electronics, batteries, etc.), and communicate changes. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016              | On going   | <ul style="list-style-type: none"> <li>The Labrie Minimax automated side loader was purchased to increase collection efficiency – Delivery in April 2017</li> <li>360 Liter bins were distributed to the community</li> <li>Communications were developed and disseminated to inform on the new collection truck</li> <li>A bi-weekly special collection was initiated in May 2017 as a solution for the non-acceptable items – Household hazardous waste, clothing, batteries, electronics and other items.</li> <li>Electronics and battery collection bins were placed at the Library, Police Station, Fire Hall, Community services building, office buildings and Town Garage.</li> </ul> |
| 4.2              | <b>Cardboard Collection</b>  | Collect cardboard separately and emphasize information to ICI to further decrease cardboard sent to landfills  | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016              | 100% of residence and ICI sector receive service once / week         | <ul style="list-style-type: none"> <li>Cardboard is now considered a special collection item, and is collected separately from the general recycling bi-weekly.</li> <li>Businesses have access to a free once a week collection service and a “during work hours drop off” available at the Recycling Depot.</li> </ul>   |
| 4.3              | <b>360 Liter Recycling bins</b>  | Purchase one hundred (100) of 360-liter bins for recyclable material for a pilot project. Evaluate effects of quantity recovered. Depending on the results, phase in a bin replacement subsequent years.                               | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017<br>2018-2020 | <b>Complete</b><br>100% of residence received a 360Lt recycling bin. | <ul style="list-style-type: none"> <li>During the last week of March and the first week of April 2017, 100% of residence received a 360 Lt recycling bin.</li> <li>Unfortunately, there was a delay in the delivery of the new recycling collection truck – so collection of the 360 Lt bins began mid-May</li> <li>To date, recycling tonnage has increased by 10% from 2016-2017 to 2017-2018</li> </ul>   |

| Action Plan Item | Action / Measure   | Description  | Responsible   | Timeline  | Progress   | Commentary  |
|------------------|--|--|---|-----------|--|---|
| 4.4              | <b>Installation of recyclable collection bins during community events</b>  | Service offering has to be developed to assist event coordinators to incorporate recycling as part of the waste disposal needs.  | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | yearly    | On going   | <ul style="list-style-type: none"> <li>Powwow, Harvest Fair, Christmas craft fair, Young Adult community Fun Fair, MCK Picnic, Racers for Health, and other smaller community events, were equipped with bins to facilitate event recycling.</li> <li>This is on-going, with additional events serviced each year.</li> </ul> |
| 4.5              | <b>Recycling bins in public areas</b>  | Install recycling bins in public areas, such as the community services building, sports fields, arena, and install a board to promote recycling.   | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2018-2019 | In progress  | <ul style="list-style-type: none"> <li>Recycling bins are currently present at several community parks, Lacrosse arena and green space, Kahnawà:ke Caisse Populaire, Canada Post, Kahnawà:ke sports arena, Fire Hall, Police station, Town Garage, Library and many other locations.</li> </ul>                               |
| 4.6              | <b>Eligibility Quebec Recycling Subsidy</b>  | Recycling subsidy – Recyc – Quebec.  | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | Complete  | <b>Complete</b>  | <ul style="list-style-type: none"> <li>In the spring of 2017, we received notification of our eligibility for the Recycling Subsidy from Recyc- Quebec .</li> </ul>   |
| <b>5</b>         | <b>Improve efficiency of other recycling programs, especially for household hazardous waste (HHW), electronics and textile</b> |  |   |           |  |   |
| 5.1              | <b>Electronics Recycling</b>   | Install an electronics drop-off point in collaboration with Electronic Products Recycling Association (EPRA) at the Transfer Depot or other convenient area. Inform people of the new service. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016      | <b>Complete</b><br>On going<br>Current 100% of dwellings & ICI sector is serviced weekly | <ul style="list-style-type: none"> <li>Small electronic device drop-off was set up at the public library and town garage. As well, a bi-weekly special collection also takes place.</li> <li>15.269 metric tons of Electronics were recycled though A.R.P.E. for 2017-2018</li> </ul>   |

| Action Plan Item | Action / Measure  | Description  | Responsible   | Timeline  | Progress                    | Commentary   |
|------------------|---|--|---|---|-----------------------------|--|
| 5.2              | <b>Household Hazardous Waste</b>  | Convenient and local collection bin for small HHW (ex. Batteries, etc...) could be installed.  | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017  | <b>Complete</b><br>On going | <ul style="list-style-type: none"> <li>Drop off is available at the Transfer Depot (Monday – Saturday 8-4pm)</li> <li>Battery collection bins have been set up at the Police Department, Fire Hall, Public Library and Town Garage in 2016.</li> </ul>                                     |
| 5.3              | <b>House Hold Hazardous Waste collection events</b>   | Hold three seasonal HHW collection events – collection events.   | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016 (1 / year)<br>2017 (2 / year)<br>2018 (3 / year) | <b>Complete</b><br>Ongoing  | <ul style="list-style-type: none"> <li>2017, a HHW Collection event was held in conjunction with Kahnawà:ke Clean-up Day</li> <li>A bi-weekly special collection occurred throughout the year, to date, 5.4 metric tons of hazardous waste was collected and properly disposed.</li> </ul> |
| <b>6</b>         | <b>Recycle 70% of CRD waste coming from the building segment and infrastructure work.</b>     |  |   |   |                             |  |
| 6.1              | <b>CRD waste disposal at the Transfer Depot</b>   | Implement a procedure to estimate the amount of incoming CRD waste, and conceive a pricing list based on volume and type of material.  | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2019  | 2019                        | To be initiated in 2019  |
| 6.2              | <b>Resources Directory for CRD Waste</b>  | Prepare a directory of available recycling and to contractors and general population.  | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017  | 2017<br>In progress         | A draft directory was developed and is going through edits and formatting. Should be complete in 2018-2019   |
| 6.3              | <b>Recycling solution for asphalt and concrete residues from all road infrastructure work</b> | Other solutions may have to be found for other materials such as wood infested by Emerald ash borer, or others)<br><br>A registry has to be developed to keep track of the recycling statistics. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016<br><br>2020                                      | delayed                     | Solutions need to be determined<br><br>Recycling stats are recorded in a data base   |



| Action Plan Item | Action / Measure   | Description   | Responsible   | Timeline | Progress  | Commentary   |
|------------------|--|---|---|----------|---|--|
| 7                | <b>Enhance information and awareness about waste recovery services and programs for residential, ICI and CRD sectors</b> |   |   |          |   |  |
| 7.1              | <b>Enhance communication Plan</b>  | Improve diffusion of information concerning waste recovery services and programs for residential, ICI and CRD sectors: Up-graded Web site, distribution of information and educational materials on what is recyclable during annual events, etc. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016     | On going<br>As services increase, communications are up-dated | <ul style="list-style-type: none"> <li>• <a href="http://WWW.Kahnawake.com/wastemanagement">WWW.Kahnawake.com/wastemanagement</a></li> <li>• Facebook page was developed for Waste Management &lt; Iotenatkweniens ne Onkwaná:takon&gt;, (recyclinginkahnawake)</li> <li>• All pamphlets were updated</li> <li>• Information booths at Clean up,</li> <li>• A “Let’s Talk trash” community meeting was held in February 2018. It was well attended, so It will now become an annual event</li> </ul> |
| 7.2              | <b>Create a waste management booklet</b>   | To provide information on services, annual events listing, Do’s and Don’t’s of recycling and composting, new initiatives and services at Transfer Depot, drop-off points, special collection day, 3R approach, etc. Update as needed.             | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017     | 2017<br>In-progress   | <ul style="list-style-type: none"> <li>• A draft directory was developed and is going through edits and formatting. Should be complete in 2018-2019</li> </ul>   |
| 7.3              | <b>Organize educational workshops in schools and for youth</b>   | To promote recycling and composting, and environmental responsibility to the students.  | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016     | 2017<br>Delayed   | <ul style="list-style-type: none"> <li>• Delay in completion due to school scheduling, postponed until 2018.</li> <li>• We were able to arrange workshops with after school programs – 2 Presentations were made at the Library, Youth Center and the “Our Gang” after school program.</li> </ul>  |
| 7.4              | <b>Conduct a survey</b>  | To identify the needs of the ICI to improve waste management, and how the community could help them to reach the objectives.  | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017     | In progress<br>2017   | <ul style="list-style-type: none"> <li>• Survey is underway, expected to be completed in 2018</li> </ul>   |

| Action Plan Item | Action / Measure  | Description   | Responsible   | Timeline    | Progress             | Commentary  |
|------------------|---|---|---|-------------|----------------------|---|
| 7.5              | <b>Promote recycling program to the ICI sector.</b>   | Inform ICI on all the accepted items, and the procedure for larger quantity disposal. Create an "ICI package" based on the needs identified in action 7.4. This package will include information on waste diversion options and available programs. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2019        | In progress 2019     | <ul style="list-style-type: none"> <li>To be initiated in 2019</li> <li>Businesses have received a 360 Lt bin and are part of the regular collection of recyclable materials</li> </ul> |
| <b>8</b>         | <b>Improve data collection system for all type of residential, ICI and CRD residual material.</b> |   |   |             |                      |   |
| 8.1              | <b>Improve data collection for recyclable materials</b>   | Buy a floor weighing scale for accurate results for material that is not otherwise weighed (refundable bottles and clothes for example).  | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016        | On going             | <ul style="list-style-type: none"> <li>Floor scale was purchased, data is collected for all items that are recycled through this operation:</li> </ul>                                  |
| 8.2              | <b>Improve data collection at the Transfer Depot</b>  | Number and category of users, quantity and type of recovered material, etc. Develop an electronic database for collection of the information.   | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2016        | In progress /delayed | Computer training for the employee's is required to move the User Data base forward. It is in progress. However, the data collection on materials processed in line.                    |
| 8.3              | <b>Create a centralized database</b>  | All recycling, composting, and waste management data will be compiled by type of material, destination, and category of users. This will be helpful to identify progress and areas for improvement.   | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017        | 2017 In progress     | Data base has been established. It is a useful tool as data is quickly available. Requires updates as expansion of the operation occurs   |
| 8.4              | <b>Make an inventory of all ICI and the waste management services they use,</b>                   | Containers size and type of and collection frequency, for current practices and improvements. Could also be used to estimate the ICI sector residual material generated.  | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2019 - 2020 | 2019 In progress     | To be initiated in 2019 – However, a complete listing has been developed  |

| Action Plan Item | Action / Measure                         | Description   | Responsible   | Timeline  | Progress                 | Commentary  |
|------------------|--|---|---|-----------|--------------------------|---|
| <b>9</b>         | <b>Monitoring and Follow-up Measures</b> |   |   |           |                          |   |
| 9.1              | <b>Yearly Community Reporting</b>        | Prepare an annual report on Recycling and waste disposal, keep community informed and encouraged. | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017-2018 | 2017-2018                | Held a "Let's Talk Trash" community meeting. Well attended, so it will continue to be annual event. |
| 9.2              | <b>Yearly Redevice Reporting</b>         | Prepare an annual progress report on the WMP 2016-2020 and transmit to MDDELCC                    | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2017-2018 | 2017-2018<br>In progress | Yearly  |
| 9.3              | <b>PGMR Up-date</b>                      | 2021-2025   | Kahnawà:ke Waste Management Department - Mohawk Council of Kahnawà:ke | 2019-2020 | 2019                     | To be initiated in 2019   |

## Target Action Items for 2018 - 2019

Recycling is still operating under interim measure conditions, and will remain in place until final construction of new facility expected in the fall of 2019.

The organics diversion effort, which includes backyard composting, further development of the community composting area, education and communications, will continue to be a priority in the next fiscal year. Training needs were identified and partially addressed last fiscal year. This will continue to be addressed to ensure proper management of a community compost facility, as well, improved infrastructure for community composting will be implemented over the course of 2018-2019

Re-branding of the Transfer Depot into that of an Eco-Center will continue. As well, additional services will be added in the coming months (propane tank recycling and white appliances). Communications is the key to successful diversion, and will improve with the addition of a communication liaison.

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