WASTE MANAGEMENT INITIATIVE
QUESTIONS AND ANSWERS

Q1: WHAT IS THE CITY'S NEW WASTE MANAGEMENT INITIATIVE?

The new Waste Management Initiative will:

- Improve efficiencies to the delivery of the waste management service in Iqaluit;
- Divert a significant percentage of waste from landfill through re-use, recycling and repurposing;
- Provide the City with a modern landfill operation and facility that will meet the needs of residents now and well into the future.

This project consists of four main components:

1. The construction of a new waste transfer station for the segregation and processing of various waste streams, from recyclables, to hazardous materials and electronics, to organics, and non-recyclables, complete with a reuse center and waste-to-energy capability for conversion of wood waste and cardboard to building heat.
2. Construction of a new, modern landfill facility for the deposition of municipal solid waste that cannot be recycled or converted to another use.
3. The closure of the existing West 40 Landfill.
4. The development of a road and a new granular source to allow the completion of the first three items listed above. The road will also serve as access to the new landfill.

Q2: WHAT IS THE TOTAL COST OF THIS PROJECT? WHERE ARE THE FUNDS COMING FROM?

The total budget is approximately $35 million, with $26.5 million (75 per cent) provided by the Government of Canada, through the Infrastructure Canada Investment Plan (ICIP) and the remaining 25 per cent provided by the City of Iqaluit, as part of the Block Funding provided by the Government of Nunavut.

The breakdown of funding for projects, based on a business case is as follows:

Road to Gravel Source	$3,175,000
Waste Transfer Station	$19,000,000
New Landfill	$10,290,000
Decommission Existing Landfill	2,500,000
TOTAL	34,965,000

Q3: WHAT ARE THE BENEFITS OF A WASTE TRANSFER STATION?

The Waste Transfer Station will be efficient to operate, as well as being environmentally friendly. The 20,000 square-foot structure will include metals and

tire recycling, composting of organics, sorting of electronics, furniture and households items to be offered back to residents for re-use, and a waste-to-energy initiative for segregated cardboard and wood.

In addition, waste destined for landfill is expected to be reduced by 44 per cent, which will greatly reduce the City's carbon footprint through reduced fuel consumption, both directly through more centralized operations, and indirectly through reduced transportation of goods and bulk fuel from Southern to Arctic Canada.

A reduction of landfilled material will also help offset potential climate-change inducing greenhouse gas emissions, while the re-use program, the waste-to energy initiative, and more centralized waste processing, will reduce the City's carbon footprint by way of reduced fuel consumed through transportation of goods from Southern to Arctic Canada, and reduced direct consumption of fuel operations.

Q4: WILL THERE BE RECYCLING? IF SO, HOW WILL IT WORK?

Yes. The new 20,000 square-foot waste transfer station will include metals and tire recycling, composting of organics, sorting of electronics, furniture and households items to be offered back to residents for re-use, and a waste-to-energy initiative for segregated cardboard and wood.

Tires will be shredded, baled and loaded into shipping containers destined for recycling plants further south. Scrap steel will also be compacted and loaded into shipping containers to be shipped to recycling plants further south. Recycling and composting will be implemented in a phased approach.

Eventually, households will likely be required to source separate their organic waste in order to be composted. At this time, the recycling of plastics and aluminum is not being considered but the facility will be designed to incorporate this in the future.

Q5: WHEN WILL CONSTRUCTION BEGIN ON THE WASTE TRANSFER STATION?

Construction is planned to begin the summer of 2019.

Q6: WHEN WILL THE WASTE TRANSFER STATION BE READY TO USE?

The Waste Transfer Station is estimated to be ready for use by the fall of 2020.

Q7: WHEN WILL CONSTRUCTION BEGIN ON THE NEW LANDFILL?

Construction is planned to begin the summer of 2019.

Q8: WHEN WILL THE NEW LANDFILL BE READY TO USE?

The new landfill is estimated to be ready for use by the fall of 2020.

Q9: HOW WILL THE NEW LANDFILL BE DIFFERENT THAN THE EXISTING ONE?

The existing landfill is a 'traditional' landfill, where the waste is stacked/piled, and layers of cover material (dirt, rock, gravel etc.) is used to cover up the waste in progressive sections. If the waste is not covered up in a timely manner, lighter waste may be caught by the wind and other organic waste will be available for scavenger animals.

The new landfill will be a bale-fill design, meaning all waste will be compacted into bales, approximately $1m^3$, and then completely wrapped in plastic. When they are brought to the landfill, they will be stacked in neat, organized rows. By wrapping the bales in plastic, it eliminates the potential for blowing litter and the availability of organic waste for scavenger animals.

Q10: WHEN WILL THE OLD LANDFILL BE CLOSED?

The current landfill will be decommissioned once the new facilities are operational, which is expected around October 2020.

Q11: WHAT WILL HAPPEN TO THE OLD LANDFILL?

The current landfill will be decommissioned and the site will be landscaped to blend into the environment.

Q12: DOES THIS MEAN NO MORE DUMP/LANDFILL FIRES?

Yes. The new Waste Transfer Station and Landfill will also be designed to ensure that gases from waste products are greatly reduced, eliminating the risk of build-up, that was a factor in previous landfill fires.

Q13 WHERE WILL THE NEW ROAD BE BUILT?

The road is an extension of Upper Base Road.

Q14 WHAT DOES "GRANULAR SOURCE" MEAN?

A 'Granular Source' is a generic term for location where aggregate (sand and varying sizes of gravel) is extracted. The material that is extracted is filtered and used for numerous construction purposes, from road construction to making concrete. Its is a critical resource for the City with a wide variety of construction and maintenance applications.

Q15: WILL ANY WORK HAPPEN THIS YEAR?

The work planned for this year includes an archaeology investigation this summer, as well as geotechnical and environmental studies and site surveys at the new landfill and waste transfer station locations.

The designer is planned to be hired in September to begin working on the detailed design of the landfill and the waste transfer station.

Site preparation work will also begin at the waste transfer station site by relocating the fire training to a new location.

And a new berm and fence will be installed at the current landfill, to help control/ensure that waste material remains on-site.

Q16: WHAT IS THE NEXT STEP?

As part of the regulatory process, an application will be submitted to the Nunavut Planning Commission (NPC) and the Nunavut Impact Review Board (NIRB), among other agencies. This will ensure the project considers all of the potential environmental impacts and mitigation measures.

A procurement process will also be implemented for a facility designer, which is expected to be awarded by September 2018.

Additional public consultations will take place between now and November when the NPC and NIRB application is expected to be submitted.

Q17: IS THERE ANYTHING THAT I CAN DO RIGHT NOW TO GET READY?

Additional public consultations will take place between now and November when the NIRB application is expected to be submitted. Information will be shared during this time.