

**REPORT OF THE DIRECTOR OF PUBLIC WORKS FOR THE CONSIDERATION OF COUNCIL – *THE CRUSHING OF THE ACCUMULATED STOCKPILE OF ASPHALT LOCATED BEHIND THE DOG-PARK***

**OBJECTIVE**

To provide council with information regarding the crushing of the accumulated stockpile of asphalt located behind the dog-park.

**RECOMMENDATION**

**THAT** the report of the Director of Public Works dated May 19, 2021 be received;

**AND THAT** Council approve the sole sourcing of the crushing of 6000 m<sup>3</sup> of stockpiled asphalt to Gilbertson Enterprises for a cost of **\$101,700** plus applicable taxes.

**AND THAT** council approves the use of the Recycled Asphalt Pavement (RAP) towards several projects identified throughout the city with the remaining approved budgeted amount of \$152,700

Respectfully Summited

Approved



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Daryl Halloch  
Director of Public Works



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Daniel Gagnon  
Chief Administrative Office

## BACKGROUND

Over the past thirty years, both the public works department and several local contractors have been disposing of their old torn up asphalt from roads and driveway projects completed throughout the city. The accumulated stockpile is now estimated to be around 18,500 m<sup>3</sup> in volume, after an engineering drone survey was completed in April of this year.

Historically, old pavement material was removed and disposed of in landfills. As landfilling these materials has become less practical and more expensive and the availability of quality virgin materials declines, the use of (RAP) has become more and more prevalent. By utilizing this recycled asphalt pavement, not only is it environmentally responsible, but the product has excellent bonding qualities and allows for better drainage than regular asphalt. With asphalt process becoming more regulated, municipalities are now required to create an action plan that documents a designated area to stockpile old asphalt and how often it will be crushed to be used as recycled asphalt pavement (RAP)

## ANALYSIS

The city of Elliot Lake receives \$650,000 in federal gas tax money annually to be budgeted towards roads projects throughout the City. In 2021 Council approved a capital project amount of \$254,400 to allow staff to hire a specialized contractor to crush a third of the stockpiled asphalt and use towards predetermined projects throughout the city.

In the summer of 2018, an inspector from the Ministry of Environment was contacted by several residents of from the City of Elliot Lake, with concerns of the continually growing stockpile of asphalt product behind the current dog-park. These concerns were brought to my attention, where the inspector from the MOECC, stated the City needed to create an action plan on what to do with the current stockpile and to identify a new area, where asphalt could be stockpiled/time period and what was going to be done with it.

The accumulated stockpile was surveyed in April of this year and was estimated to be around 25,000m<sup>3</sup>, which was later confirmed to be closer to 18,500m<sup>3</sup> by Gilbertson Enterprise, a company from St. Joseph Island that specializes in the crushing, screening and stockpiling of old asphalt. The city received a proposal from Gilbertson Enterprise to crush and screen the stockpile of asphalt for a price of \$16.95 per cubic meter plus applicable taxes resulting in a total cost of \$101,700 plus applicable taxes. The crushed asphalt volume is estimated to be around 410 truckloads that would be required to be hauled to predetermined projects throughout the city.

After further investigation, it is recommended to use this (RAP) for parking lots, shouldering, trail systems, driveways and on roads with lower vehicle volumes. With this in mind, staff is recommending the approval to complete the ski hill parking lot (1800m<sup>3</sup>), the trail system from Esten Drive North to Esten Drive South, Mississagi Park entrance way, proposed accessibility parking area at Spruce beach, with the remaining volume being hauled to the public works yard. By utilizing this RAP product, the city is saving a substantial amount of money compared to purchasing products like asphalt, crusher dust, A,



B or M gravel. The remaining volume will be crushed over the next two years, where the RAP product can be utilized in facility parking lots that have been identified to be replaced in the 2016 building condition assessment.

## **FINANCIAL IMPACT**

Council approved a capital budgeted of \$254,400 to have a third (6000m<sup>3</sup>) of the stockpile of asphalt crushed and utilized on predetermined projects throughout the City. With the crushing process costing \$101,700 plus applicable taxes, this would leave a remaining budgeted amount of \$152,700 to hire local contractors to assist in hauling, grading and packing the recycled asphalt product towards predetermined projects throughout the city.

## **SUMMARY**

In summary, not only is the city removing a large volume of stockpiled asphalt from an area of concern from both residents of the City of Elliot Lake and the Ministry of Environment and Climate Control, it is also utilizing the recycled asphalt product towards projects throughout the city. This is environmentally responsible as well as a great cost savings for the city, which now has identified an area in the local landfill, where residents and contractors will be charged a fee to dispose of their old asphalt. The money collected will be used to have offset the cost to crush this product every 5 years, where it again can be used in projects throughout the city.

