

GROWTH OF CITY FLEET FOR ASPHALT REPAIR UNITS

AGRANDISSEMENT DU PARC MUNICIPAL CONCERNANT LES UNITÉS DE RÉPARATION DE L'ASPHALTE

COMMITTEE RECOMMENDATION

That Council approve the growth of the City Fleet through the purchase of eight (8) asphalt repair units to facilitate the increasing demand for pothole maintenance, as outlined in this report, subject to Council approval of the reallocation of the required capital funds through the Capital Adjustments and Closing of Projects - City Tax and Rate Report.

RECOMMANDATION DU COMITÉ

Que le Conseil approuve l'agrandissement du parc municipal au moyen de l'achat de huit (8) unités de réparation de l'asphalte afin de répondre à la demande accrue de réparation des nids de poule tel qu'indiqué dans le présent rapport, sous réserve de l'approbation par le Conseil de la réaffectation des fonds d'immobilisation requis par le biais du rapport Ajustement du budget des immobilisations et cessation de projets financés par recettes fiscales.

DOCUMENTATION / DOCUMENTATION

1. Steve Kanellakos, Deputy City Manager, City Operations, report dated May 28, 2014 (ACS2014-COS-PWS-0014)

Steve Kanellakos, Directeur municipal adjoint, Opérations municipales, rapport daté du 28 mai 2014 (ACS2014-COS-PWS-0014)

Report to
Rapport au:

Transportation Committee
Comité des transports

and Council
et au Conseil

May 28, 2014
28 mai 2014

Submitted by
Soumis par:

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Ward: CITY WIDE / À L'ÉCHELLE DE LA File Number: ACS2014-COS-PWS-0014
VILLE

SUBJECT: Growth of City Fleet for Asphalt Repair Units

OBJET: Agrandissement du parc municipal concernant les unités de
réparation de l'asphalte

REPORT RECOMMENDATIONS

That the Transportation Committee recommend-Council approve the growth of the City Fleet through the purchase of eight (8) asphalt repair units to facilitate the increasing demand for pothole maintenance, as outlined in this report, subject to Council approval of the reallocation of the required capital funds

through the Capital Adjustments and Closing of Projects - City Tax and Rate Report.

RECOMMANDATIONS DU RAPPORT

Que le Comité des transports recommande au Conseil d'approuver l'agrandissement du parc municipal au moyen de l'achat de huit (8) unités de réparation de l'asphalte afin de répondre à la demande accrue de réparation des nids de poule tel qu'indiqué dans le présent rapport, sous réserve de l'approbation par le Conseil de la réaffectation des fonds d'immobilisation requis par le biais du rapport Ajustement du budget des immobilisations et cessation de projets financés par recettes fiscales.

BACKGROUND

The maintenance of potholes and ground distortions is an important part of the Public Works Department's operations. The Department takes a proactive approach to maintaining potholes year round.

Asphalt reacts to changing weather patterns as well as stress caused by buses and trucks which leads to distortions and holes. Potholes can cause treacherous driving and cycling conditions and can have a negative impact on the City's image.

The number of potholes being repaired in a given year has steadily increased. In order to continue to meet these demands, the Public Works Department would like to purchase 8 new asphalt repair units.

DISCUSSION

The Roads Services Branch recommends the purchase of 7 new hot boxes at a cost of approximately \$40,000 per unit and an option to purchase 1 new asphalt spray applicator at an estimated cost of \$80,000 for a total of \$360,000. The purchase of the asphalt spray applicator will be dependent on the results of a pilot project being conducted this summer. All units are trailer mounted and will be operated using existing staff, vehicles and material resources.

Research and trials by the Public Works Department and other cities has demonstrated that hot mix asphalt, which needs to be heated in hot boxes, provides a significantly improved repair over traditional 'cold patch' used mainly for winter pothole repairs.

Further, the Department recently tested a spray applicator unit. The spray applicator allows crews to spray air to clean out the pothole, a tack coat to seal the hole and a mixture of emulsion and aggregate to fill the hole. Compaction is achieved by the force of the spray and vehicles driving over the patch. Roads will be testing this technology on the road surface, crumbling edge lines and gravelled shoulders.

A study by the US Strategic Highway Research Program showed promising results for this type of technology in terms of longevity of repair, outlasting all other methods (SHRP-H353-1993). The Department will conduct a pilot project during the summer to see if the asphalt spray applicator is effective.

In order to continuously maintain the travelled surface, asphalt crews use 18 hot boxes to conduct both proactive and reactive asphalt repair duties. Based on service requests from the public and Council, maintenance schedules (beats) are developed to address specific concerns identified by residents through 311 and to proactively fill any other potholes that may be on the roadway. In order to keep up with the demand, additional hot boxes are required. Table 1 shows the incremental rise in both proactive and reactive asphalt repairs to address potholes.

Table 1 - The number of asphalt repairs and service requests received to address potholes

Year	Number of Potholes Repaired	Number of 3-1-1 Service Requests for Potholes
2014 (to date)	126,464	6,574
2013	193,224	7,115
2012	178,263	4,279
2011	177,556	4,921
2010	133,513	2,712
2009	141,066	4,001

RURAL IMPLICATIONS

There are no rural implications associated with the report recommendations.

CONSULTATION

There are no consultations required for this report.

COMMENTS BY THE WARD COUNCILLOR(S)

This is a City-wide report.

LEGAL IMPLICATIONS

There are no legal impediments to implementing the recommendation in this report.

RISK MANAGEMENT IMPLICATIONS

There is no risk management implication associated with the report recommendation.

FINANCIAL IMPLICATIONS

The Capital funding source required for these additional units will come from existing Public Works vehicle and equipment accounts, along with reallocating funds from within Public Works Capital accounts. The reallocation of additional funds is subject to the approval of the Capital Adjustments and Closing Projects – City Tax and Rate report which is dated for review, June 3 at FEDCO and June 11 by Council. The required 2014 operating funding for these units will be funded within the Public Works Operating Budget and the 2015 forward Operating funding will be part of the 2015 Budgeting process.

ACCESSIBILITY IMPACTS

There is no accessibility implication associated with the report recommendation.

TECHNOLOGY IMPLICATIONS

There is no technology implication associated with the report recommendation.

TERM OF COUNCIL PRIORITIES

SE2 – Improve Operational Performance

DISPOSITION

Upon Council's approval, the Public Works Department will purchase eight (8) asphalt repair units.