

NO: R142

COUNCIL DATE: June 21, 2010

---

## REGULAR COUNCIL

TO: **Mayor & Council** DATE: **June 15, 2010**

FROM: **General Manager, Engineering** PROJECT FILE: **4710-001-11**

SUBJECT: **Award of Contract M.S. 4710-001-11**  
**Construction of Works to Protect Bear Creek Sanitary Sewer Trunk**

---

## RECOMMENDATIONS

The Engineering Department recommends that Council:

1. Award Contract M.S. 4710-001-11 to Mission Contractors Ltd. for the construction of works to protect the Bear Creek sanitary sewer trunk in the amount of \$519,369.70 including GST/HST; and
2. Set the expenditure authorization limit for Contract M.S. 4710-001-11 at \$600,000 including GST/HST.

## SCOPE OF WORK

### Site 1: 140 Street and 80B Avenue (see map attached as Appendix I)

The sanitary trunk sewer in the vicinity of a tributary stream to Bear Creek is being structurally undermined and eroded by the adjacent stream. The stream channel is generally dry during the summer season; however, during the wet season the storm water that flows in the channel causes occasional flooding and erosion of the area adjacent to the channel, which contains the subject sanitary trunk sewer. The sanitary sewer trunk is now exposed and requires immediate protection from further erosion. The work of the subject contract includes constructing corrosion-protected Gabion walls along the exposed section of sanitary sewer to limit future erosion. In addition, wood tangle structures are being installed to reduce the water velocity in the creek channel and thereby reduce the potential for the water to cause further erosion. The wood tangle structures will also create fish-friendly pools and habitat.

### Site 2: King George Boulevard and 88 Avenue (see map attached as Appendix II)

The existing Gabion baskets that are protecting a sanitary sewer main located under the pedestrian bridge within Bear Creek Park are slowly washing out, which if allowed to continue will affect the stability of the immediately adjacent sanitary sewer main. The subject contract includes the construction of a corrosion-protected Gabion wall to protect the site and sanitary sewer soil cover from further erosion. In addition, the City plans to install wood tangle structures to reduce the velocity of flows in the creek, which will act to reduce the potential for the water

flows to cause further erosion. The wood tangle structures will also create fish-friendly pools and habitat.

The pedestrian bridge will be closed during the construction period for the safety of the public. Construction signs will be posted on site and flag personnel will escort construction traffic through the park. Traffic through Bear Creek Park and the closure of the pedestrian bridge will be coordinated with the City's Parks Division.

The contract work is expected to start in August 2010 and be completed by the end of September 2010 to reflect the fisheries construction window.

## TENDER RESULTS

Tenders for the subject contract were opened on June 3, 2010, with the following results:

| <i>Contractor</i>           | <i>Tendered Amount<br/>with HST</i> | <i>Corrected<br/>Amount</i> |
|-----------------------------|-------------------------------------|-----------------------------|
| 1. Mission Contractors Ltd. | \$518,966.52                        | \$519,369.70                |
| 2. Double M Excavating Ltd. | \$592,024.16                        | No Change                   |

The Engineer's pre-tender estimate was \$484,000, including GST/HST.

## EVALUATION

The City's consultant reviewed the tender submissions for accuracy and completeness. One tender was incomplete and consequently was invalid. Of the remaining valid tenders, one contained a minor arithmetic error that had no bearing on the outcome of the tender process. Both submissions included the required 10% bid bond, and were signed and sealed on the Tender Form and Summary Sheet of the Schedule of Quantities and Prices.

The low bidder, Mission Contractors Ltd., has provided a Consent of Surety for Performance Bond, Labour & Material Bond, WorkSafeBC Letter and agreed to complete the work within 30 working days, as stipulated in the contract. Mission Contractors Ltd.'s past performance on similar work has been satisfactory. They have no outstanding legal claims against the City. It is recommended that Mission Contractors Ltd. be awarded Contract M.S. 4710-001-11.

## SUSTAINABILITY CHARTER/CONSIDERATIONS

The Bear Creek Trunk Sewer Protection project will act to protect the stability of the sewer pipe for continued reliable sanitary sewer service to the City's residents and will also create a better creek environment for fish. The project will increase the area of fish habitat in Bear Creek Park. In particular, the project supports the Surrey Sustainability Charter Scope actions related to:

- EN8: Sustainable Engineering Standards and Practices; and
- EN12: Enhancement and Protection of Natural Areas, Fish Habitat and Wildlife Habitat

## FUNDING

Funding for this contract is available in the approved 2010 Budget.

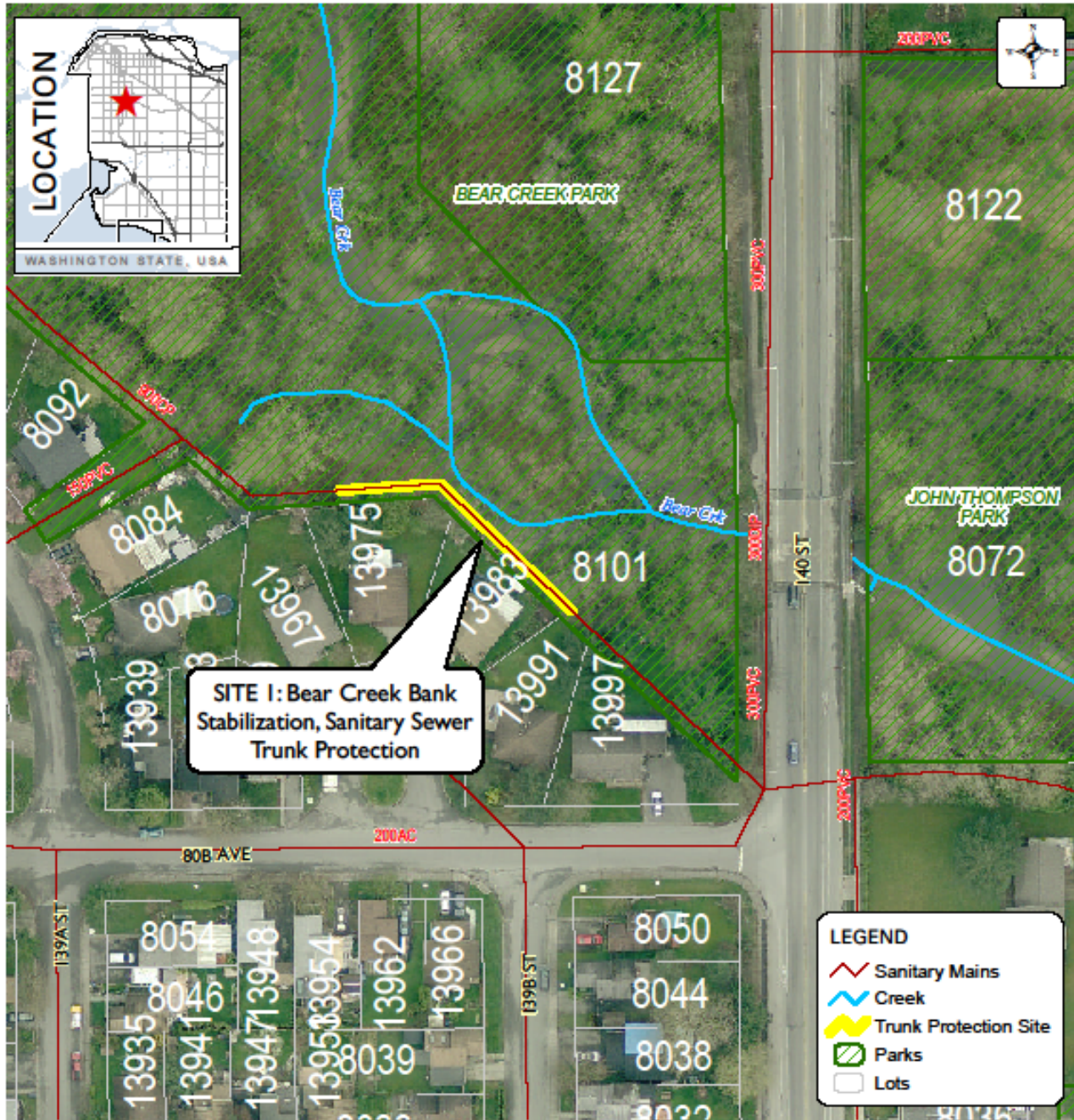
Vincent Lalonde, P.Eng.  
General Manager, Engineering

GKC/brb

Appendix I - Aerial Photograph of Site 1  
Appendix II - Aerial Photograph of Site 2

g:\wp-docs\2010\administration\cr\0609120gkc.docx  
BRB 6/18/10 10:48 AM

# APPENDIX I AERIAL PHOTOGRAPH OF SITE



**SITE 1: Bear Creek Bank  
Stabilization, Sanitary Sewer  
Trunk Protection**

**LEGEND**

- Sanitary Mains
- Creek
- Trunk Protection Site
- Parks
- Lots

Produced by GIS Section: May 18, 2010, AW

Date of Aerial Photography: April 2009



**BEAR CREEK TRUNK PROTECTION  
SITE 1  
PROJECT: 4710-001-11**

**ENGINEERING  
DEPARTMENT**

The data provided is compiled from various sources and IS NOT warranted as to its accuracy or sufficiency by the City of Surrey.  
This information is provided for information and convenience purposes only.  
Lot sizes, legal descriptions and encumbrances must be confirmed at the Land Title Office.

G:\MAPPING\GIS\MAPS\CORPORATE REPORTS\Realty\AW-Bear Creek Park Trunk Protection-AP.mxd



# APPENDIX II AERIAL PHOTOGRAPH OF SITE



Produced by GIS Section: May 18, 2010, AW

Date of Aerial Photography: April 2009



**BEAR CREEK TRUNK PROTECTION  
SITE 2  
PROJECT: 4710-001-11**

**ENGINEERING  
DEPARTMENT**

The data provided is compiled from various sources and IS NOT warranted as to its accuracy or sufficiency by the City of Surrey.  
This information is provided for information and convenience purposes only.  
Lot sizes, legal descriptions and encumbrances must be confirmed at the Land Title Office.

G:\MAPPING\GIS\MAPS\  
CORPORATE REPORTS\Realty\  
AW-BearCreekParkTrunkProtection2-AP.mxd