

TO: CITY MANAGER 2005 JULY 13  
 FROM: CHIEF INFORMATION OFFICER File: IS-RTC  
 SUBJECT: CITY MAPPING SYSTEM UPGRADE  
 PURPOSE: To request \$ 135,000 in funding to upgrade the City's mapping system.

**RECOMMENDATION:**

1. **THAT** a \$ 135,000 Capital Expenditure Bylaw (inclusive of 7% GST) be brought down for the purchase of implementation services, equipment and licencing to upgrade the City's mapping system.

**REPORT**

In 2002, the Burnaby WebMap team developed and implemented a Geographic Information System (GIS) system that provided secure public Internet access to our mapping system. Since that time the system has been kept up-to-date with various annual upgrades including the latest GIS web software version, purchasing new equipment to improve Webmap response times, creating access and printing capabilities in Engineering and Planning front counters, purchasing orthophotos and an additional GIS access licence. In order to keep the system up-to-date additional consulting expertise, equipment and licencing are needed to maintain the software, provide additional functionality and increase equipment capacity.

The 2005 task list and cost breakdown is as follows:

Tasks	Task Description	Costs
1	Change the GIS database software (ArcSDE) to the latest software version.	\$ 20,000
2	Purchase an additional Central Processing Unit and memory.	45,000
3	Move the GIS file storage to the storage area network (SAN).	30,000
4	Purchase an additional Oracle access licence module.	35,000
5	Contingency	5,000
	<b>TOTAL COSTS</b>	<b>\$ 135,000</b>

This portion of the GIS project will include the following benefits:

- Keep the software database product, ArcSDE, up-to-date and compatible with outside agencies.
- provide new database administration tools, improved response times, geoprocessing tools and others;
- provide the ability to consolidate the Enterprise Resource Planning (ERP) system and GIS onto a common platform to improve manageability;
- allow multiple database environments to enable the City to maintain a test, development, integration and production environments;
- provide the ability for database growth, to accommodate additional data within the GIS.

## **FINANCING**

The 2005 Information Services component of the 2005-2009 Capital Program provides \$55,000 for this project, the remaining funding will be reallocated within the overall total of the Information Services component.



Brian Sameshima  
CHIEF INFORMATION OFFICER

BS:RE:js

cc: Director Engineering  
Director Finance