# Service Requests in the Management Lifecycle

City of Surrey
April 2007

City of Surrey – Overview

- **Geographically, Surrey is one of the largest cities Cities in Canada.**

- **Surrey covers an area of 317 square km.**

- **Surrey is also one of the fastest growing cities in Canada. With a current population of 410,000 Surrey is expected to be larger than Vancouver by the year 2025.**

- **Residential development & construction continues to grow at a rapid pace (60% increase between 1985 – 2005).**

- **City of Surrey maintains a staff to population ratio of 5:1,000 compared to the local government ratio average across Canada of 12:1,000**

City of Surrey – Sanitary Sewer Operations Overview
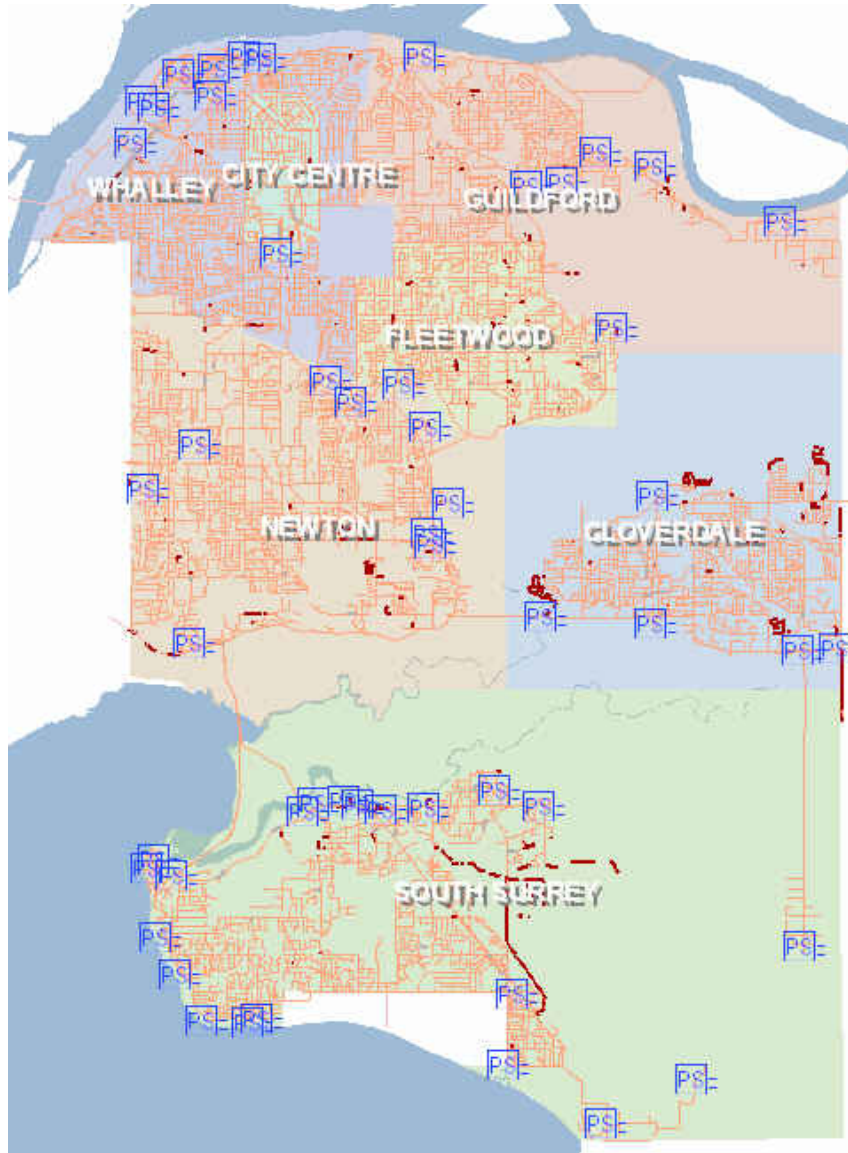
- Over 1,500 km of Sanitary Sewer mainlines, with more than 18,000 manholes, over 71,000 connections, and 40 Lift Stations.

- Diverse San Sewer System: Gravity, Vacuum, Force, and Low Pressure systems are maintained by the City.

- Approximately 10% of the mainline inventory is videoed every year via CCTV.

- 50% of the mainline inventory is flushed every year. Problem mains are flushed more frequently.

City of Surrey – Service Request Management Overview

- **City receives an average of 2,600 Sewer related calls from residents each year:**
  - **75% are Non-complaint related (example: cut ICs, general inquiries, etc)**
  - **25% are complaints related (example: back-ups, odour)**

- **As a percentage of the number of households:**
  - **2.45% of customers call for general work requests or for information per year**
  - **0.68% of customers call with system operation complaints per year**

Surrey's Service Request System

Service Request Program

- **The City's Service Request application resides on our mapping system, thus provides us with the potential to streamline our customer feedback analysis**

- **Surrey's Service Request System Provides For:**

   1. **City of Surrey Service Request Processes**

   2. **Improved Customer Call Processing**

   3. **Mapping to the City's GIS**

   4. **Statistical Data "on the fly"**

   5. **Improved Reporting & Tracking system**

   6. **Analyzing Program Effectiveness**

   7. **Future Technologies Enabled**

1. Service Request Processes

1. Staff receives request/complaint from customer

2. S/R form is forwarded to field operation staff

3. Field operation staff investigate complaint/request. If work is required staff create a w.o. against the asset and perform repairs.

4. Investigation details and follow-up info are added to S/R by field operation staff on their desktop PC's

5. S/R closed by field staff

2. Improved Customer Call Processing

Crew Info

Caller Information

Type of Complaint

Complaint Details

- **Categorizes & prioritizes complaints & requests**

- **Assigns specific staff to deal with complaints and requests**

- **Records specific details regarding the caller's inquiry or complaint**

- **Application geographically locates all complaints or requests**

- **Asset information is available upon creation of the Service Request**

2. Continued…

- **Immediate ability to review recent calls to check for other complaints in the area**

- **Immediate ability to search and geographically review previous complaints or requests by name or address**

- **Immediate ability to visually represent complaint types on a map (recent or by search on a particular date or area)**

3. Mapping to Geographical Information System (GIS)
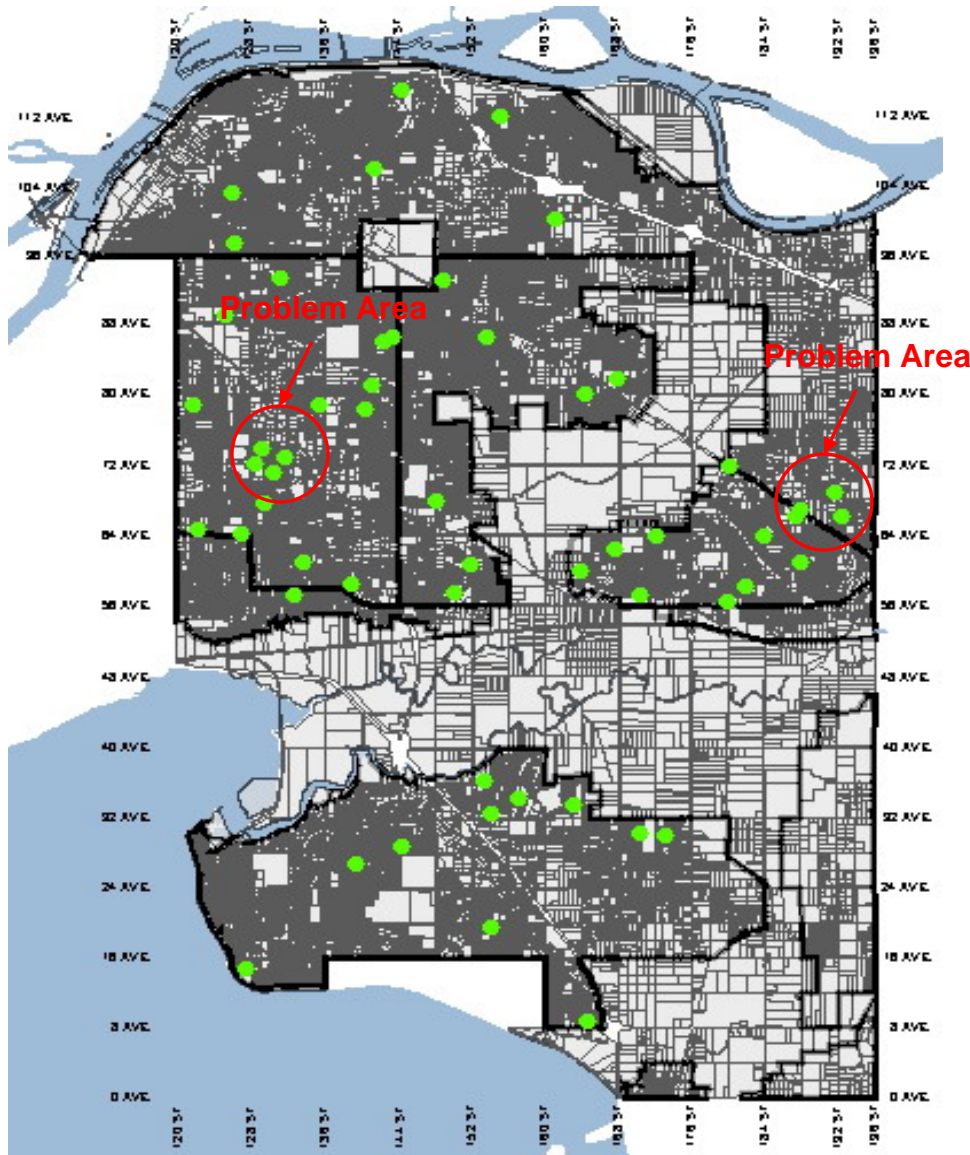
- Surrey's Service Request Management System is linked to the GIS system

- No external data extractions or manual plotting is required

- Ability to plot complaints on an itemized basis using as many layers as desired

- Ability to quickly determine problem areas on maps resulting in quick analysis & resolution of problems

- Monitor progress of problem areas (daily, monthly or annually)

3. Continued…
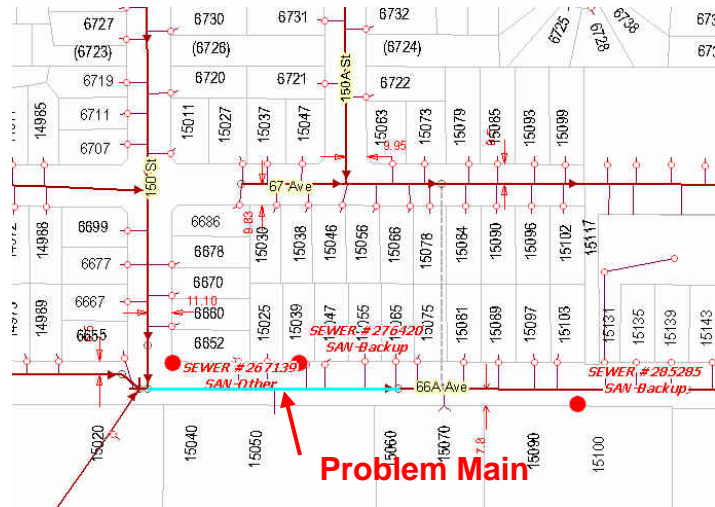
Review Service Request History

- The Service Request instantly displays the location on a map

- Corresponding asset information, and Service Request history can be displayed

- A work order history of problems can be reviewed BEFORE leaving the office to investigate

Review Work History

Asset Attributes

Attribute	Value
OBJECTID	18454
MAIN_TYPE	Gravity
MAIN_TYPE2	Gravity
GRAVITY_CLASSIFIC/	Interceptor
FACILITYID	1000083486
LEGACYID	23082
MAIN_SIZE	900
MAIN_SIZE_2	
CALC_LENGTH	120.3304525
MATERIAL	CO
RELINED_MATERIAL	
UP_ELEVATION	12.25
DOWN_ELEVATION	12.04
SLOPE	0.17
STATUS	In Service
OPERATING_STATUS	Open
DRAWING_NO	S-063-001
PROJECT_NO	3029
YR	1973
OWNER	Surrey
UP_NODE	1499606663
DOWN_NODE	1505606647
ASBUILT_LENGTH	124.61
LOCATION	
COMMENTS	SEE S-063-063
GIS_ENTRY_STAGE	
WARRANTYDATE	
CONDITION	
CONDITIONDATE	
YTD_COST	
LIFECYCLE_COST	
CCTV_DATE	
FLUSH_DATE	
GROUT_DATE	
SMOKE_DATE	
ROOT_DATE	
GREASE_DATE	

4. Statistical Data

- **Detailed complaint & request data available on-demand**

- **No external data extractions are required**

- **Flexible query capabilities**

- **Data can be sorted in a number of ways (typically):**
  - **Year**
  - **Month**
  - **Day**
  - **Type of complaint/requests**
  - **Assigned Employee**
  - **Status (open or closed)**

- **Quickly determines service quality and pinpoints problem areas.**

No. of Sanitary Backups for 2006

Complaint/Request Type

5. Improved Tracking & Reporting System

Service Request Tracking

- Ability to track status of S/R's (open vs. closed S/R's)

- Service Request comments are directly entered to service request by field operation staff

- Itemized service request reports available per complaint/request type

- Administration done electronically (we've reduced the need to generate paper)

6. Analyzing Program Effectiveness

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- Program work is displayed from the Work Order tracking portion of our application (eg 2004 Flushing Program)

- Service Requests from 2005 are displayed with the Program work for analysis

- Service Requests from 2006 are then displayed with the Program work for additional analysis of the 2 year flushing program

- We can see by the cluster, that additional inspection and analysis is required in one particular location

7. Next Steps:

Process	**Benefits**

Process

Call taker receives call

Call taker enters all info into system

S/R is retrieved by field operation staff from mobile computer (in vehicle)

Field operation staff investigate complaint/request

Investigation details are entered into the system by the field operation staff (mobile computer)

S/R closed by staff in field

Benefits

- Enhance service request process by linking live to City fleet

- Eliminates duplication of time spent to record and complete service requests

- Decreases time spent in office and increases time in field

- Data (maps & complaint history) availabe in field for problem resolution

- Pilot program for linking live is currently being launched

Questions?