

**CITY OF SPRUCE GROVE  
CITY POLICY**

**NUMBER:  
2,015**

<b>REFERENCE:  RES. #: 137-04</b>	<b>ADOPTED BY CITY COUNCIL</b>	<b>SUPERSEDES  Page 1 of 3</b>
	<b>DATE: 26 April 2004</b>	

**REFERENCE:        SANITARY SEWER SYSTEM INSPECTION AND MAINTENANCE  
                              POLICY**

**POLICY STATEMENT:**

This policy is intended to provide the guidelines necessary to operate and maintain the wastewater collection system. Alberta Environment has designated the City's wastewater collection system to be a Class 3 facility, and under the Approval to Operate, the City must follow the terms and conditions as listed in the Approval.

**Overview**

The city's wastewater collection system is a gravity flow system. This system includes all sewer mains required to collect sewage from households, commercial, institutional and industrial establishments within the City and to convey the sewage to the Capital Region Wastewater Commission sanitary transmission system located at the north boundary of the City along Highway 16.

The collection and transportation portion of the sewage collection system consists of trunk sewers, sewer laterals and service connections.

The City also operates and maintains a Level 1 Wastewater Treatment facility. This facility treats sewerage from 80 residences located in Parkland Village. This facility is also connected to the Capital Region's transmission line, and in an emergency condition, will provide a temporary storage site for wastewater until repairs can be made to the transmission system.

Through experience, The City has identified sections of the system that could be subject to blockages if not flushed regularly. These sections are located mainly in the Old Town area, but also include sections that are downstream of restaurants in other areas of the City.

**THE PURPOSE OF THIS POLICY IS TO: Have City Council's full endorsement on the importance of an effective Sanitary Sewer System Inspection and Maintenance Program.**

**This policy is subject to any specific provision of the Municipal Government Act or other relevant legislation or Union Agreement.**

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Recent growth and development has required the City to plan for the future and has developed, in conjunction with an Engineering firm, a sanitary sewerage Master Plan. This I includes the future servicing of proposed lands as well as trunk facility requirements.

**Inspection and Maintenance Guidelines:**

**Wastewater Flow monitoring**, The City shall monitor wastewater flow to assess the reliability of the established design criteria and allow ongoing calibration of the sanitary sewer model.

**CCTV Inspection**, The City shall inspect 14 km of wastewater collection piping each year to ensure that the pipe is in serviceable condition. This program will confirm the structural integrity, and determine the extent of material buildup and pipe system degradation. Deficiencies to be looking for include: sags, silt and grease build-up, calcite build-up and deflection at pipe joints, root penetration at cracks and joints, inflow and infiltration of ground and surface waters, and protruding service tie-ins.

**Infiltration Reduction**, The City shall inspect 1 neighborhood per season for: connection of roof leaders into the sanitary sewer system, proper lot grading away from buildings, surfaces that would allow infiltration into the manhole and other cross connections allowing surface water into the sanitary collection system.

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**Sewer Main Maintenance**, The City shall ensure that sewer mains that are susceptible to grease buildups or blockages due to minimal grade, are inspected on a bi-annual basis and flushed as required to prevent back-ups. Public Works shall develop a maintenance schedule to ensure that all sections of the wastewater collection system have been power flushed. The City will be divided into sections to provide a systematic process of flushing. Each section will start at the top end of the gravity flow system and will then work it's way to terminate at the East, Central or West trunk line's.

Any sections that have been known to develop calcite deposits shall be inspected every 3 years to ensure adequate flow. All documentation shall be filed for future reference.

**Manholes**, Public Works shall replace all existing frame and covers in roadways, with the new NF80 style, as specified in the Engineering Standards. All manholes shall be numbered for identification purposes.

**Lagoon**, Public Works shall maintain this facility to ensure proper operation and that Alberta Environment's term and conditions are followed. As a minimum, a weekly inspection of this facility is required.

**Alberta Environment Approval**, The City shall follow the terms and conditions as amended from time to time, of Approval No. 1174-01-00.

**Capital Region Wastewater Commission**, The City must follow the Commission's regulations, as amended from time to time, to restrict prohibited wastes from entering the Commission's facilities. Specific wastewater regulations are necessary to insure reliable operation of the wastewater facilities and compliance with effluent and biosolids quality requirements.

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