

Sanitary Sewer

Custodian: The Corporation of the District of Saanich, Underground Services Division

Publish Date: January 1, 2003

Abstract: The sanitary sewer dataset represents a collection of features that convey wastewater.

Purpose: The sanitary sewer dataset is captured to support the management, planning, and maintenance of sewer assets.

Status: Complete

Update Frequency: Weekly

Credits: The Corporation of the District of Saanich, Engineering Department, Public Works Division, Storm and Wastewater Section, Corporate GIS.

Coordinate System: NAD 1983 UTM Zone 10N

Geometry Type: Point & Line

The 10 Data Layers comprising Sanitary Sewer are:

1. Sewer Cleanout
2. Sewer Connection
3. Sewer Control Valve
4. Sewer Fitting
5. Sewer Gravity Main
6. Sewer Lateral Line
7. Sewer Manhole
8. Sewer Network Structure
9. Sewer Pressurized Main
10. Sewer System Valve

1. Sewer Cleanout

Abstract: A sewer cleanout provides access to a sewer collection system for the purpose of inserting cleaning tools, such as rods or snakes while cleaning a pipeline or blockage. A cleanout is generally found at the upstream end of a sewer gravity main. Cleanouts are sometimes found on laterals near property line. There are two types captured: Main and Lateral.

Geometry Type: Point

Attribution Information:

FIELD NAME	DESCRIPTION	EXAMPLES
OBJECTID	Internal feature number	146
SUBTYPE	Type of cleanout	Main, Lateral
ADMINISTRATIVEAREA	Organization or jurisdictional owner responsible for maintenance of feature	District of Saanich
FACILITYID	Unique Alphanumeric ID assigned by Saanich	SCT002319
LIFECYCLESTATUS	Status of feature	Active or Abandoned
SHAPE	Feature geometry	Point

2. Sewer Connection

Abstract: A sewer connection represents the point location where Saanich's sewer collection system meets the customer's sewer line. These representative points are most commonly located at property line or right of way boundaries. There are three types captured: Standard, Inspection, and Capped.

Geometry Type: Point

Attribution Information:

FIELD NAME	DESCRIPTION	EXAMPLES
OBJECTID	Internal feature number	12
SUBTYPE	Type of connection	Standard, Inspection, Cap
ADMINISTRATIVEAREA	Organization or jurisdictional owner responsible for maintenance of feature	District of Saanich
FACILITYID	Unique Alphanumeric ID assigned by Saanich	SCN016108
DEPTHM	Recorded ground to connection depth in metres	1.6
SHAPE	Feature geometry	Point

3. Sewer Control Valve

Abstract: Sewer control valves are devices that operate in special ways. Air control valves relieve the system of trapped air or vacuums that may develop. Check valves are self-activating valves that permit gases and liquids to flow in only one direction, preventing process flow from reversing. They are classified as one-way directional valves. There are three types of valve captured: Air Release, Simple Check, and Drain.

Geometry Type: Point

Attribution Information:

FIELD NAME	DESCRIPTION	EXAMPLES
OBJECTID	Internal feature number	12
SUBTYPE	Type of control valve	Air Release, Simple Check, Drain
ADMINISTRATIVEAREA	Organization or jurisdictional owner responsible for maintenance of feature	District of Saanich
FACILITYID	Unique Alphanumeric ID assigned by Saanich	SCV00014
LIFECYCLESTATUS	Status of feature	Active or Abandoned
SHAPE	Feature geometry	Point

4. Sewer Fitting

Abstract: A sewer fitting represents the device used to connect or cap sewer main lines.

Geometry Type: Point

Attribution Information:

FIELD NAME	DESCRIPTION	EXAMPLES
OBJECTID	Internal feature number	12
SUBTYPE	Type of fitting	Main Cap
ADMINISTRATIVEAREA	Organization or jurisdictional owner responsible for maintenance of feature	District of Saanich
FACILITYID	Unique Alphanumeric ID assigned by Saanich	SFG00212
LIFECYCLESTATUS	Status of feature	Active or Abandoned
SHAPE	Feature geometry	Point

5. Sewer Gravity Main

Abstract: A sewer gravity main is a type of pipe that is not pressurized and relies on gravity to move the sanitary wastewater through the pipe. There are five types captured: Collector, Inverted Siphon, Outfall, Overflow, and Trunk.

Geometry Type: Line

Attribution Information:

FIELD NAME	DESCRIPTION	EXAMPLES
OBJECTID	Internal feature number	12
SUBTYPE	Type of gravity main	Collector, Inverted Siphon, Outfall, Overflow, Trunk
ADMINISTRATIVEAREA	Organization or jurisdictional owner responsible for maintenance of feature	District of Saanich
FACILITYID	Unique Alphanumeric ID assigned by Saanich	SGM005395
LIFECYCLESTATUS	Status of feature	Active or Abandoned
MATERIAL	Pipe material type	Poly Vinyl Chloride
DIAMETER	Pipe diameter in millimetres	150
RELINED	Pipe has been relined	Yes or No
RELINEMETHOD	Construction method used for pipe relining	Pipe Bursting, Cured in Place
RELINESTRUCTURAL	Relined pipe has had significant reconstruction	Yes or No
HOSTMATERIAL	Material type for host pipe	Asbestos Cement
LINERTHICKNESS	Thickness of liner in millimetres	5
SHAPE	Feature geometry	Line
SHAPE.LEN	Length of pipe in metres	157

6. Sewer Lateral Line

Abstract: A sewer lateral line is a small-diameter pipe that runs from the gravity main line to the customer premises. There is one type captured: Lateral Line. The pipe diameter is predominantly assumed to be 100 mm.

Geometry Type: Line

Attribution Information:

FIELD NAME	DESCRIPTION	EXAMPLES
OBJECTID	Internal feature number	12
SUBTYPE	Type of lateral	Lateral Line
ADMINISTRATIVEAREA	Organization or jurisdictional owner responsible for maintenance of feature	District of Saanich
FACILITYID	Unique Alphanumeric ID assigned by Saanich	SLL027310
LIFECYCLESTATUS	Status of feature	Active or Abandoned
MATERIAL	Pipe material type	Poly Vinyl Chloride
DIAMETER	Pipe diameter in millimetres	100
SHAPE	Feature geometry	Line
SHAPE.LEN	Length of pipe lateral in metres	7.1

7. Sewer Manhole

Abstract: A sewer manhole is an entry point that allows access for operators or equipment to enter a sewer collection system. It may also be called an access or maintenance hole.

Geometry Type: Point

Attribution Information:

FIELD NAME	DESCRIPTION	EXAMPLES
OBJECTID	Internal feature number	12
ADMINISTRATIVEAREA	Organization or jurisdictional owner responsible for maintenance of feature	District of Saanich
FACILITYID	Unique Alphanumeric ID assigned by Saanich	SMH000347
LIFECYCLESTATUS	Status of feature	Active or Abandoned
SHAPE	Feature geometry	Point

8. Sewer Network Structure

Abstract: A sewer network structure is used to convey water through the system in non-gravity scenarios and operating structures. There are nine types of sewer network structures captured: Pump Station, Storage Basin or Tank, Junction Chamber, Overflow Chamber, Pigging Chamber, Transition Chamber, Valve Chamber, Air Release Chamber, and Observation Chamber.

Geometry Type: Point

Attribution Information:

FIELD NAME	DESCRIPTION	EXAMPLES
OBJECTID	Internal feature number	12
SUBTYPE	Type of network structure	Pump Station, Storage Basin or Tank, Junction Chamber, Overflow Chamber, Pigging Chamber, Transition Chamber, Valve Chamber, Air Release Chamber, Observation Chamber
ADMINISTRATIVEAREA	Organization or jurisdictional owner responsible for maintenance of feature	District of Saanich
FACILITYID	Unique Alphanumeric ID assigned by Saanich	SNS000040
LIFECYCLESTATUS	Status of feature	Active or Abandoned
PUMPSTATIONNAME	Pump Station Name	Grange
SHAPE	Feature geometry	Point

9. Sewer Pressurized Main

Abstract: A pressurized main is a type of pipe that operates under pressure and is able to convey sewage where a gravity system would not function.

Geometry Type: Line

Attribution Information:

FIELD NAME	DESCRIPTION	EXAMPLES
OBJECTID	Internal feature number	12
SUBTYPE	Type of pressurized main	Force
ADMINISTRATIVEAREA	Organization or jurisdictional owner responsible for maintenance of feature	District of Saanich
FACILITYID	Unique Alphanumeric ID assigned by Saanich	SPM000108
LIFECYCLESTATUS	Status of feature	Active or Abandoned
MATERIAL	Pipe material type	Poly Vinyl Chloride
DIAMETER	Pipe diameter in millimetres	500
RELINED	Pipe has been relined	Yes or No
RELINEMETHOD	Construction method used for pipe relining	Pipe Bursting, Cured in Place
RELINESTRUCTURAL	Relined pipe has had significant reconstruction	Yes or No
HOSTMATERIAL	Material type for host pipe	Asbestos Cement
LINERTHICKNESS	Thickness of liner in millimetres	10
SHAPE	Feature geometry	Line
SHAPE.LEN	Length of pipe in metres	255

10. Sewer System Valve

Abstract: A sewer system valve is a device that is fitted to a pipeline or orifice in which the closure member is either rotated or moved transversely or longitudinally in the waterway so as to control or stop the flow. System valves are used to regulate pressure, isolate, throttle flow, prevent backflow, and relieve pressure. There is one type captured: Gate.

Geometry Type: Point

Attribution Information:

FIELD NAME	DESCRIPTION	EXAMPLES
OBJECTID	Internal feature number	12
SUBTYPE	Type of system valve	Gate
ADMINISTRATIVEAREA	Organization or jurisdictional owner responsible for maintenance of feature	District of Saanich
FACILITYID	Unique Alphanumeric ID assigned by Saanich	SSV000019
LIFECYCLESTATUS	Status of feature	Active or Abandoned
SHAPE	Feature geometry	Point