

### WATER SYSTEM

	GIS Revision Tracking Point		Flowmeter		Water Reservoir
	Pressure Tank		Water Quality Station	<b>Other Water Service Features</b>	
	Unknown FCODE		Water Quality Instrument		Water Service Point
	Air and Vacuum Valve	<b>Hydrants</b>			Leaks and Breaks
	Air Release Valve		Hydrant	<b>Water Pumps</b>	
	Altitude Valve		Private Hydrant		Domestic Pump
	Ball Valve	<b>Water Fittings</b>			Fire Pump
	Butterfly Valve		Adaptor	<b>Water Pipes</b>	
	Butterfly Valve Operator Side		Bend		Unknown Pipe
	Check Valve		Blind Flange		Drain
	Corporation Stop		Cap		Distribution Main
	Curb Stop		Chamber Flow Arrow		Transmission Main
	Drain Valve		Chamber Vent		Private Drain
	Gate Valve		Coupling		Private Distribution Main
	Globe Valve		Cross		Private Transmission Main
	Hydrant Valve		Denso Tape		Unknown Lateral
	Pressure Reducing Valve		Link Seal on a Pipe Sleeve		Service Lateral
	Service Valve		M.J. Restraint Device		Hydrant Lead
	Surge Relief Valve		Non-shrink Fill on a Pipe Sleeve		Private Service Lateral
	Private Air Release Valve		Plug		Private Hydrant Lead
	Private Air and Vacuum Valve		Reducer		Pipe Mask
	Private Altitude Valve		Sleeve	<b>Water Pipe Insulation</b>	
	Private Ball Valve		Strainer		Concrete Slab
	Private Butterfly Valve		Tapping Sleeve		Pipe Wrapped Insulation
	Private Butterfly Valve Operator Side		Tee		Protective Piping Encasement
	Private Check Valve		Test Meter Pit		Styrofoam Insulation
	Private Corporation Stop		Victaulic Coupling	<b>Water Pipe Cleaning and Lining</b>	
	Private Curb Stop		Wye		Cleaning and Lining
	Private Drain Valve		Wye Left		Cleaned Pipe
	Private Gate Valve		Wye Right	<b>Structure Polygons</b>	
	Private Globe Valve	<b>Structure Points</b>			
	Private Hydrant Valve		Air Release Chamber		
	Private Pressure Reducing Valve		Booster Station		
	Private Service Valve		Control Chamber		
	Private Surge Relief Valve		Meter Chamber		
	Closed Valve		Production Well		
	Isolation Valve		PRV Chamber		
	Private Isolation Valve		Reservoir Chamber		
	Backflow Preventer		Water Treatment Plant		

# WASTEWATER COLLECTION SYSTEM

	GIS Revision Tracking Point		Service Point		Sewer Pump	
	Collection System Spot Repair		Legacy Service Point		Treatment Facility	
<b>Wastewater Manholes and Outfalls</b>					Casing	
	Public Manhole		Control Structure		Lining	
	Private Manhole		Identified Deficiency (Pipes/Laterals)		Tracewire	
<b>Wastewater Chambers</b>					Vent Line	
	Diversion Chamber		Force Main Flow Meter		CCTV Televised Main	
	Diversion Point		Gravity Flow Meter	<b>Wastewater Insulation</b>		
	Force Main Valve Chamber		Gravity Flow Meter - Removed		Concrete Slab	
	Junction Chamber		Wastewater Corp Stop		Pre-Insulated Pipe	
	Pre-Treatment Unit		Wastewater Curb Stop		Styrofoam Sheet	
	Pump Chamber	<b>Wastewater Pumping Stations</b>			<b>Wastewater Pipes</b>	
	Regulating Chamber		Public Pumping Station		Public Force Main	
	Tide Chamber		Private Pumping Station		Public Gravity Pressure Pipe	
	Outfall	<b>Wastewater Holding Tanks</b>				Public Pressure Pipe
<b>Wastewater Fittings</b>				Heat Recovery Tank		Public Inverted Siphon
	Bend		Holding Tank		Public Pipe	
	Cap		Overflow Tank		Private Force Main	
	Cleanout	<b>Wastewater Valves</b>				Private Gravity Pressure Pipe
	Coupling		Air Release Valve		Private Pressure Pipe	
	Eccentric Reducer		Altitude Valve		Private Inverted Siphon	
	Flexible Coupling		Butterfly Valve		Private Pipe	
	Flex Joint		Ball Valve		Public Lateral	
	Grouted Connection		Cone Valve		Private Lateral	
	Long Radius Bend		Check Valve		Wastewater Structure Polygon	
	Mechanical Joint Restraint		Drain Valve			
	Reducer		Gate Valve			
	Saddle		Plug Valve			
	Tap		Pressure Release Valve			
	Tee		Surge Relief Valve			
	Wye		Valve			
	Vent					

# STORMWATER COLLECTION SYSTEM

### Stormwater Manholes

- Public Manhole
- Private Manhole

### Stormwater Inlets

- Public Catchbasin
- Public Double Catchbasin
- Public Triple Catchbasin
- Private Catchbasin
- Private Double Catchbasin
- Private Triple Catchbasin

### Stormwater Headwalls and Outfalls

- Headwall
- Outfall

### Stormwater Fittings

- Bend
- Cap
- Cleanout
- Coupling
- Eccentric Reducer
- Flexible Coupling
- Flex Joint
- Grouted Connection
- Long Radius Bend
- Mechanical Joint Restraint
- Reducer
- Saddle
- Tap
- Tee
- Wye

### Stormwater Chambers

- Diversion Chamber
- Diversion Point
- Force Main Valve Chamber
- Junction Chamber
- Pump Chamber
- Regulating Chamber
- Tide Chamber
- Treatment Unit

- Service Point
- Control Structure

### Stormwater Valves

- Air Release Valve
- Altitude Valve
- Butterfly Valve
- Ball Valve
- Cone Valve
- Check Valve
- Drain Valve
- Gate Valve
- Plug Valve
- Pressure Release Valve
- Surge Relief Valve
- Valve

### Stormwater Management Structures

- Other (No Remarks)
- Berm
- Private Berm
- Constructed Wetland
- Private Constructed Wetland
- Lake
- Private Lake
- Oversize Pipe
- Private Oversize Pipe
- Underground Storage
- Private Underground Storage
- Wet Pond
- Private Wet Pond
- Dry Pond
- Private Dry Pond
- Unknown
- Private Unknown
- Other (See Remarks)
- Private Other (See Remarks)

- Identified Deficiency (Pipes/Laterals)

- Force Main Flow Meter

- Gravity Flow Meter

- Gravity Flow Meter - Removed

- Stormwater Corp Stop

- Stormwater Curb Stop

### Stormwater Pumping Stations

- Public Pumping Station
- Private Pumping Station

- Casing

- Lining

- Ditch

- CCTV Televised Main

### Stormwater Insulation

- Concrete Slab
- Pre-Insulated Pipe
- Styrofoam Sheet

### Stormwater Pipes

- Public Catchbasin Lead
- Public Culvert
- Public Drain
- Public Force Main
- Public Gravity Pressure Pipe
- Public Pressure Pipe
- Public Inverted Siphon
- Public Pipe
- Private Catchbasin Lead
- Private Culvert
- Private Drain
- Private Force Main
- Private Gravity Pressure Pipe
- Private Pressure Pipe
- Private Inverted Siphon
- Private Pipe
- Public Lateral
- Private Lateral
- Stormwater Structure Polygon

## COMBINED COLLECTION SYSTEM

### Combined Manholes and Outfalls

- Public Manhole
- Private Manhole
- Outfall
- Combined Sewer Overflow (CSO) Structure

### Combined Fitting

- Bend
- Cap
- Cleanout
- Coupling
- Eccentric Reducer
- Flexible Coupling
- Flex Joint
- Grouted Connection
- Long Radius Bend
- Mechanical Joint Restraint
- Reducer
- Saddle
- Tap
- Tee
- Wye

### Combined Holding Tanks

- Heat Recovery Tank
- Holding Tank
- Overflow Tank

### Combined Pumping Stations

- Public Pumping Station
- Private Pumping Station

- Control Structure
- Identified Deficiency (Pipes/Laterals)
- Force Main Flow Meter
- Gravity Flow Meter
- Gravity Flow Meter - Removed
- Combined Corp Stop
- Combined Curb Stop

### Combined Chambers

- Diversion Chamber
- Diversion Point
- Force Main Valve Chamber
- Junction Chamber
- Pump Chamber
- Regulating Chamber
- Tide Chamber

### Combined Valves

- Air Release Valve
- Altitude Valve
- Butterfly Valve
- Ball Valve
- Cone Valve
- Check Valve
- Drain Valve
- Gate Valve
- Plug Valve
- Pressure Release Valve
- Surge Relief Valve
- Valve

- Casing
- Lining
- CCTV Televised Main

### Insulation

- Concrete Slab
- Pre-Insulated Pipe
- Styrofoam Sheet



### Combined Pipes

- Public Force Main
- Public Gravity Pressure Pipe
- Public Pressure Pipe
- Public Inverted Siphon
- Public Pipe
- Private Force Main
- Private Gravity Pressure Pipe
- Private Pressure Pipe
- Private Inverted Siphon
- Private Pipe
- Public Lateral
- Private Lateral
- Combined Structure Polygon





## UNKNOWN COLLECTION SYSTEM










### Unknown Manholes

-  Public Manhole
-  Private Manhole




### Unknown Headwalls and Outfalls

-  Headwall
-  Outfall



### Unknown Fittings










-  Bend
-  Cap
-  Cleanout
-  Coupling
-  Eccentric Reducer
-  Flexible Coupling
-  Flex Joint
-  Grouted Connection
-  Long Radius Bend
-  Mechanical Joint Restraint
-  Reducer
-  Saddle
-  Tap
-  Tee
-  Wye

### Unknown Holding Tanks








-  Heat Recovery Tank
-  Holding Tank
-  Overflow Tank

### Unknown Pumping Stations













-  Public Pumping Station
-  Private Pumping Station

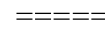


-  Service Point
-  Cathodic Protection Test Station
-  Control Structure
-  Identified Deficiency (Pipes/Laterals)
-  Force Main Flow Meter
-  Gravity Flow Meter
-  Gravity Flow Meter - Removed
-  Unknown Corp Stop
-  Unknown Curb Stop

### Unknown Chambers




-  Diversion Chamber
-  Diversion Point
-  Force Main Valve Chamber
-  Junction Chamber
-  Pump Chamber
-  Regulating Chamber
-  Tide Chamber

### Unknown Valves












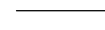

-  Air Release Valve
-  Altitude Valve
-  Butterfly Valve
-  Ball Valve
-  Cone Valve
-  Check Valve
-  Drain Valve
-  Gate Valve
-  Plug Valve
-  Pressure Release Valve
-  Surge Relief Valve
-  Valve

-  Casing
-  Lining
-  CCTV Televised Main

### Unknown Insulation

-  Concrete Slab
-  Pre-Insulated Pipe
-  Styrofoam Sheet

### Unknown Pipes

-  Public Force Main
-  Public Gravity Pressure Pipe
-  Public Pressure Pipe
-  Public Inverted Siphon
-  Public Pipe
-  Private Force Main
-  Private Gravity Pressure Pipe
-  Private Pressure Pipe
-  Private Inverted Siphon
-  Private Pipe
-  Public Lateral
-  Private Lateral
-  Unknown Structure Polygon



## ABANDONED WATER SYSTEM

- Abandoned Valves
- Abandoned Hydrants
- Abandoned Water Pipe
- Abandoned Water Drain
- Abandoned Service Point
- Abandoned Service Lateral
- Abandoned Structure Points**
  - Unknown Structure Subtype
  - ARV Air Release Chamber
  - Booster Station
  - CTR Control Chamber
  - MTR Meter Chamber
  - PW Production Well
  - PRV PRV Chamber
  - RSV Reservoir Chamber
  - Water Treatment Plant
- Abandoned Water Reservoir
- Abandoned Flowmeter
- Abandoned Fittings**
  - Unknown FCODE
  - Adaptor
  - Bend
  - Blind Flange
  - Cap
  - Chamber Flow Arrow
  - VT Chamber Vent
  - Coupling
  - Cross
  - Denso Tape
- Link Seal on a Pipe Sleeve
- M.J. Restraint Device
- Non-shrink Fill on a Pipe Sleeve
- Plug
- Reducer
- Sleeve
- Strainer
- Tapping Sleeve
- Tee
- TM Test Meter Pit
- Victaulic Coupling
- Wye
- Wye Left
- Wye Right


































































**Abandoned Structure Polygons**






















## ABANDONED COLLECTION SYSTEM

- Abandoned Manholes**
  - Combined Manhole
  - Wastewater Manhole
  - Stormwater Manhole
  - Unknown Manhole
  - Abandoned CSO Structure
- Abandoned Inlets and Outfalls**
  - Catchbasin
  - Double Catchbasin
  - Triple Catchbasin
  - Abandoned Headwall
  - Abandoned Outfall
- Abandoned Fittings**
  - Bend
  - Cap
  - Cleanout
  - Coupling
  - Eccentric Reducer
  - Flex Joint
  - Flexible Coupling
  - Grouted Connection
  - Long Radius Bend
  - Mechanical Joint Restraint
  - Reducer
  - Saddle
  - Tap
  - Tee
  - Wye
  - Vent
- Abandoned Holding Tanks**
  - Heat Recovery Tank
  - Holding Tank
  - Overflow Tank
- Abandoned Service Points**
  - Unknown
  - Stormwater
  - Wastewater
- Abandoned Cathodic Protection Test Station
- Abandoned Control Structure
- Abandoned Stormwater Management Structure
- Abandoned Tracewire Access Point
- Abandoned Sewer Pump
- Abandoned Corp Stop
- Abandoned Curb Stop
- Abandoned Chambers**
  - Diversion Chamber
  - Diversion Point
  - Force Main Valve Chamber
  - Junction Chamber
  - Pump Chamber
  - Regulating Chamber
  - Stormwater Treatment Unit
  - Tide Chamber
  - Wastewater Pre-Treatment Unit
- Abandoned Valves**
  - Air Release Valve
  - Altitude Valve
  - Butterfly Valve
  - Ball Valve
  - Cone Valve
  - Check Valve
  - Drain Valve
  - Gate Valve
  - Plug Valve
  - Pressure Relief Valve
  - Surge Relief Valve
  - Valve
  - Abandoned Collection System Structure
- Abandoned Treatment Facility
- Abandoned Pumping Station
- Abandoned Casing
- Abandoned Lining
- Abandoned Ditch
- Abandoned Insulation
- Abandoned Tracewire
- Abandoned Vent Line
- Abandoned Pipes**
  - Combined Force Main
  - Combined Gravity Pressure Pipe
  - Combined Pressure Pipe
  - Combined Inverted Siphon
  - Combined Pipe
  - Catchbasin Lead
  - Culvert
  - Drain
  - Stormwater Force Main
  - Stormwater Gravity Pressure Pipe
  - Stormwater Pressure Pipe
  - Stormwater Inverted Siphon
  - Stormwater Pipe
  - Unknown Force Main
  - Unknown Gravity Pressure Pipe
  - Unknown Pressure Pipe
  - Unknown Inverted Siphon
  - Unknown Pipe
  - Wastewater Force Main
  - Wastewater Gravity Pressure Pipe
  - Wastewater Pressure Pipe
  - Wastewater Inverted Siphon
  - Wastewater Pipe
  - Lateral





## LAND FEATURES

	Traffic Pole		Bennery Lake		BED		HPSBB		Beaver Bank
	Utility Pole		Bomont		CHEB		LEPL		Bedford Commons
	Survey Monument		Chain Lakes		CHW		LTWN		Bedford Highway
	Natural Gas Lateral		Collin's Park		DART		MVDS		Bedford South
	Natural Gas Pipeline		Five Islands		DHFV		NPLM		Bedford West
	Property Boundary		Lake Major		DRTDO		PROS		Beechville - Lakeside - Timberlea
	Road Feature		Lemont Lake		EPCW		SACK		Birch Cove North
	Land Owned by Halifax Water		Middle Musquodoboit		ESE		SHUB		Fall River - Windsor Junction
	Community Boundary		Pockwock Lake		ESW		SMB		Geizer Hill
	Halifax Water Sewershed Boundary		Siversands		HMAIN		TLB		Hammonds Plains - Pockwock
	Halifax Water Stormwater Service Boundary		Tomahawk Lake		HPEN				Herring Cove
<b>HRM Service Requirements</b>									Kingswood - Blue Mountain
	Water Service Only								MacLaughlin Road
	Wastewater Service Only								Middle Musquodoboit
	Water and Wastewater Service								Middle Sackville - Lively
<b>Protected Water Areas</b>									Morris - Russell Lake
	Protected Water Areas								Portland Hills
<b>Provincial Tertiary Watersheds</b>									
	Provincial Tertiary Watersheds								

## BASEMAP

	Power Pole / Transmission Tower		Building
	Municipal Boundary		Road
	Railroad		Parking Area / Driveway / Sidewalk
	Rivers / Stream		Property Boundary
	Streets and Highways (1:100 - 1:8,000)		Lake
	Streets and Highways (1:16,000: - 1:64,000)		Parks / Recreational Areas
	Streets and Highways (1:128,000 - 1:256,000)		Land Owned by University
	Major Highway		Coastline
	Minor Highway		
	Primary Street		
	Street		

## WATER SCHEMATIC

	Water - Schematic System
	Water - Schematic Hydrant
	Water - Schematic System (Private)
	Water - Schematic Hydrant (Private)

## ZONES AND REGIONS

### Distribution System Regions

	Unknown
	East
	Central
	West
<b>Collection System Regions</b>	
	Unknown
	East
	Central
	West
<b>Pressure Zones</b>	
	Unknown Pressure Zone
	24 East High
	Aerotech
	Atholea Low
	Beaver Bank Boosted
	Beaver Bank Intermediate
	Bedford Intermediate
	Bedford Low
	Bedford South Intermediate
	Berry Hills Boosted
	Bluewater Intermediate
	Broadholme Intermediate
	Brunello Boosted
	Burnside Boosted
	Burnside High
	Burnside Low
	Caldwell Road Boosted
	Charles Road Boosted
	Churchill Intermediate
	Cowie High
	Dartmouth Intermediate East
	Dartmouth Intermediate West
	Dartmouth Low
	Eaglewood Boosted
	Eastern Passage/Woodside Low
	Fairview Clayton High
	Fall River Intermediate
	Farnhamgate Intermediate
	Flamingo Intermediate
	Geizer 123 High
	Geizer 158 High
	Geizer Boosted

	Glenforest Intermediate
	Hemlock High
	Hemlock Intermediate
	Hemlock Super High
	Herring Cove Low
	Kearney Lake Intermediate
	Kingswood High
	Lake Major High
	Lakeside Intermediate
	Leiblin Boosted
	Lively Boosted
	Lucasville High
	Miller Lake High
	Miller Lake Low
	Monarch/Rivendale High
	Montague High
	Mount Edward Boosted
	Mowatt Intermediate
	No. 7 Highway Boosted
	North Preston
	Orchard High
	Peninsula High
	Peninsula Intermediate
	Peninsula Low
	Pockwock Boosted
	Pockwock High
	Princess Margaret Low
	Ritcey Low
	Robie Reservoir
	Rockingham Low
	Rockmanor Intermediate
	Ross Road Low
	Sackville High
	Sackville Intermediate
	Silverside Boosted
	Spryfield Intermediate
	Titus Evans Low
	Upper Hammonds Plains High
	Waverley Intermediate
	Waverley Low
	West Bedford Intermediate
	Williams Lake Low

### Meter Zones

	Unknown Meter Zone
	#7 Highway Boosted
	24 East High
	Aerotech
	Atholea Low
	Beaver Bank Boosted
	Beaver Bank Intermediate
	Bedford Intermediate
	Bedford Low
	Bedford South Intermediate
	Berry Hills Boosted
	Birch Cove
	Bluewater Intermediate
	Broadholme Intermediate
	Brunello Boosted
	Burnside Boosted
	Burnside High
	Burnside Low
	Caldwell Rd Boosted
	Caledonia High
	Central Dartmouth
	Charles Rd Boosted
	Churchill Intermediate
	Cobequid High
	Cowie High
	Dartmouth Low
	Eastern Passage Low
	Fairview Clayton Park
	Fall River Intermediate
	Farnhamgate Intermediate
	Flamingo Intermediate
	Geizer123 High
	Geizer158 High
	Geizer Boosted
	Glenforest Intermediate
	Hammond Kearney
	Hemlock High
	Hemlock Intermediate
	Hemlock Super High
	Herring Cove Low
	Herring Cove Road Intermediate
	Kearney Lake Intermediate
	Kingswood High
	Lake Major High
	Lakeside High
	Lakeside Intermediate
	Leiblin Boosted
	Lively Boosted
	Lucasville High
	Miller Lake High
	Miller Lake Low
	Monarch/Rivendale High
	Montague High
	Mount Edward Boosted
	Mowatt Intermediate
	North Preston
	Orchard High
	Penhorn Intermediate
	Peninsula High
	Peninsula Intermediate Central
	Peninsula Intermediate North
	Peninsula Intermediate South
	Peninsula Low North
	Peninsula Low South
	Pockwock Boosted
	Pockwock High
	Princess Margaret Low
	Ritcey Low
	Robie Reservoir
	Rockmanor Intermediate
	Ross Rd
	Sackville High
	Sackville Intermediate
	Silverside Boosted
	Spryfield Intermediate
	Titus Evans Low
	Upper Hammonds Plains High
	Waverley Intermediate
	Waverley Low
	West Bedford Intermediate
	Williams Lake Low
	Woodlawn Inter
	Woodside Low