

Chapter 10. Utilities



10.1 Plan Context

The Utilities Chapter contains policies and maps that guide the siting of utility facilities in the city. The main purpose of this chapter is to ensure that Poulsbo will have utilities to adequately serve the Land Use Plan. Policies also address the quality, reliability, safety and regulation of the services provided.

The Growth Management Act requires all comprehensive plans to contain a Utilities Element that “includes the general location, proposed locations, and capacity of all existing and proposed utilities, including but not limited to electrical lines, telecommunication lines, and natural gas lines.” (RCW 36.70A.070(4)).

In Poulsbo, as in many cities, utilities are provided by a combination of city-managed and non city-managed providers. Depending on their service, these are variously state regulated, federally licensed and/or municipally franchised providers.

City-managed utilities are sewer, water, storm water and solid waste.

Non city-managed utilities are electricity, natural gas, other petroleum gas, telephone, personal wireless services, and cable.

Non city-managed utilities providers include Puget Sound Energy (PSE) (electrical), Cascade Natural Gas (natural gas), and providers of telephone services. The Washington Utilities and Transportation Commission (WUTC) regulate these utilities.

Personal wireless service providers serving Poulsbo are those licensed by the Federal Communications Commission (FCC) in the Radio Frequency Spectrum for wireless telecommunications service and registered to do business in Poulsbo.

Cable services are provided under municipal franchise.

10.2 Goals and Policies

CITY-MANAGED UTILITIES

The City of Poulsbo manages the Sewer, Water, and Storm water Utilities, as well as Solid Waste management activities. These utilities are enterprise operations that are self-supporting and separate from the city General Fund. Detailed descriptions and assessment of City-managed utilities are included in Section 2 Capital Facility Plan.

The Sewer Utility operates, maintains and extends the sewage collection system to respond to the needs of residents and commercial establishments. The collection system discharges into interceptors owned and operated by Kitsap County, which transport the sewage to the Central Kitsap Waste Water Treatment Plant.

The Water Utility operates, maintains and distributes water through mains constructed, operated and maintained by the City to residential and commercial users.

The Storm water Utility's operation includes flood control, maintenance and enhancement of surface water quality, and public education.

Solid Waste management activities include the collection of solid waste, recyclables, and yard waste.

GOAL UT-1

Provide the development and maintenance of all city-managed utilities at the appropriate levels of service to accommodate the City of Poulsbo's projected growth.

Policy UT-1.1

The City shall adopt design and construction standards for all City-managed. The City shall review their utility construction standards at a minimum of every five years to ensure the City's standards remain contemporary and relevant to the changing needs of the city.

Policy UT-1.2

It is the City's policy not to hold itself as a public utility and therefore generally requires that properties annex to the city limits before City public utilities are to be extended. There may be circumstances, however, that the City may decide, at its sole and absolute discretion, to allow extension of utility service to property prior to annexation. The Poulsbo Municipal Code establishes the procedures and policies for utility extensions prior to annexation.

Policy UT-1.3

Require sewer and water connections for all new development be to City construction standards.

Policy UT-1.4

Allow existing single family homes with working septic systems and private wells to continue to utilize these facilities, providing there are no health or environmental problems.

Policy UT-1.5

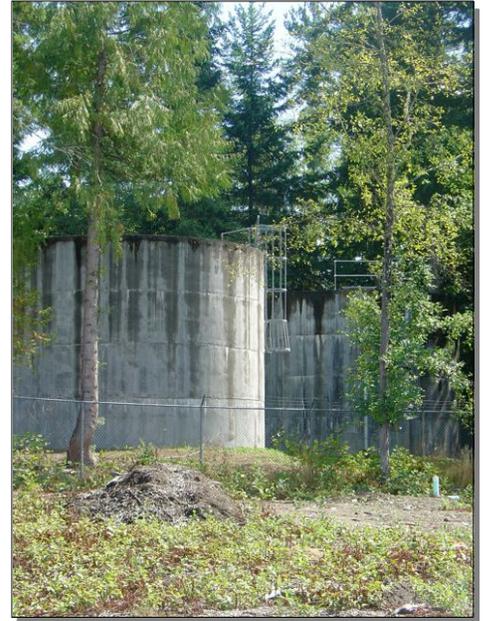
All new water and sewer mains shall be installed in public right-of-way, and the use of private easements for such locations shall be avoided as much as possible.

Policy UT-1.6

Sewers intended to serve new development shall be gravity, unless topography or technical design reasons prevent obtaining gravity flow. In those specific cases where gravity flow cannot be achieved, lift stations may be considered by the City.

Policy UT-1.7

Provide a water supply that meets all federal and Washington State Department of Health drinking water quality standards.



City's 4th Avenue water tanks

Policy UT-1.8

Provide reliable water service for domestic use, fire flow protection and emergencies.

Policy UT-1.9

Develop and implement a proactive water use efficiency and conservation program, based upon the goals and recommendations set forth in the most current water system functional plan. Any such efficiency and conservation program shall identify incentives for water conservation.

Policy UT-1.10

Ensure water quality is maintained by requiring all new water systems to be looped as much as possible.

Policy UT-1.11

Manage the storm water system in Poulsbo to maintain a hydrologic balance in order to prevent property damage, protect water quality, and provide for the safety and enjoyment of citizens.

Policy UT-1.12

The City shall complete and implement the necessary programs, projects and maintenance that satisfy the Washington State Department of Ecology Phase II NPDES requirements.

Policy UT-1.13

Maintain a cost-effective and responsive solid waste collection system. Require garbage pickups to be located on public streets.

Policy UT-1.14

Promote the recycling of solid waste materials by providing opportunities for convenient recycling and by developing and distributing educational materials on recycling, composting and other waste reduction methods.

Policy UT-1.15

Continue participating in Kitsap County’s solid waste management planning to ensure a regional approach to solid waste management.



Kitsap County’s Poulsbo Recycle Center located on Viking Avenue

NON CITY-MANAGED UTILITIES

The Washington Utilities and Transportation Commission (WUTC) has the authority from state law to regulate the services and define the costs that a utility can recover, to ensure that the utility acts prudently and responsibly.

Electrical Service

Puget Sound Energy (PSE) builds, operates and maintains the electrical utility system serving the City of Poulsbo. PSE is an investor-owned utility with the responsibility for providing service to over 1,630,000 metered customers within the company’s 6,000 square mile service territory, including Kitsap County.

PSE imports electrical energy from generation sources primarily from hydrogenerating stations along the mid-Columbia River and from Canada. PSE’s goals are to meet future customer needs for electrical service, enhance system reliability and maintain safe facilities.

PSE has divided Kitsap County into two subareas – north and south – for purposes of electric facilities planning. The North Kitsap subarea is defined by the shoreline with Sinclair Inlet as the southern border to Hood Canal as the northern border. The South Kitsap subarea is defined by the shorelines, the county-line to the south, and Sinclair Inlet as the northern border.

The North and South subareas receive power from a network of 115kV transmission lines interconnecting transmission sources in South Kitsap County to transmission switching stations in Central and North Kitsap County. The Poulsbo area is served by two parallel 115kV transmission lines that carry power from the Bremerton Substation and the Valley Junction Substation north of Silverdale to the Foss Corner Substation northeast of Poulsbo between Bond Road and Stottlemeyer Road NE.

An 115kV transmission line is located in Viking Way NW, which leads into a distribution station near Liberty Road. The line continues to the north end of the City, where it crosses along north of Liberty Bay and down Lindvig Way to Bond Road NE, feeding into the Foss Corner Substation. The 115kV line continues down the eastern perimeter of the City, following Stottlemeyer Road NE down NE Lincoln Drive and cutting through to Noll Road NE. The line eventually cuts back across Liberty Bay's Southern end to connect the transmission lines with the U.S. Navy Keyport and South Keyport Distribution Stations.



Power substation at Lincoln Avenue

PSE's long-range plans are based on electrical growth projections anticipated in the planning period. PSE uses state, regional and local population and employment forecasts, as well as recent growth patterns. This data, in conjunction with the company's projections of conservation, retail rates and any know short term large load additions or deletions, form PSE's forecast of energy and peak loads.

PSE's future electrical facilities plan is based on an estimated normal peak winter load. PSE plans to construction additional transmission and distribution facilities to meet demand. At this time, no new electrical facilities have been identified for the Poulsbo city limits or urban growth area.

Natural Gas

Cascade Natural Gas (CNG) builds, operates and maintains the natural gas facilities serving the City of Poulsbo. CNG is responsible for the installation of services for new construction, as well as the conversion from electricity or oil to natural gas.

The Pacific Northwest receives natural gas from various regions of the United States and Canada. Natural gas is transported through the states of Washington, Oregon and Idaho via a network of interstate transmission pipelines owned and operated by Northwest Pipeline Corporation.

The location, capacity and timing of improvements within CNG's service area depends primarily on opportunities for expansion and the location of city growth. There are usually several alternative routes possible when connecting to the existing system. The ultimate route will depend on right-of-way, environmental impacts, and the additional opportunity to install mains concurrent with new development, or other underground infrastructure improvements.

Telecommunication Services

Telecommunication is the transmission of sound, images and/or data by wire, radio, optical cable, electromagnetic, or other similar means. Telecommunications include but are not limited to, telephone, personal wireless services, microwave, and cable.

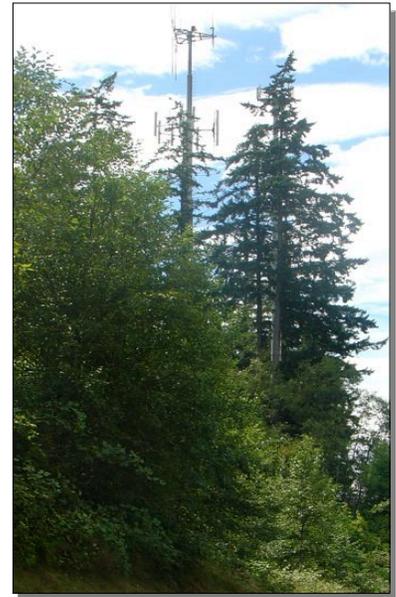
In most cases, these telecommunication services will use existing utility corridors, public rights-of-way and city owned properties other than rights-of-way, and will be able to provide services to all parts of the city. Poulsbo encourages the shared use of facilities.

Telephone: In addition to service offered by established telephone providers, cable companies also now offer local telephone service. It is anticipated that additional upgraded telephone facilities will be needed to handle a growing demand for telecommunication services.

Personal Wireless: Personal wireless facility communication services use radio waves to transmit voice and/or data using the radio frequency spectrum. These services include, but are not limited to, commercial mobile services (e.g. cellular), unlicensed wireless services, and common carrier wireless exchange services.

Personal wireless facility communication services use ground-based directional receivers (antennae) that may be located on freestanding poles and towers or on buildings and structures. Each antenna has ancillary power and radio equipment. Poulsbo recognizes that providing personal wireless facility communication service involves adapting to changing technologies that may make current forms of receivers obsolete and removable.

Cable: At this time, one cable operator provides cable services in the City of Poulsbo. This service provides broadcasting via a network of overhead and underground coaxial cables.



Wireless communication facilities located on 4th Avenue

GOAL UT-2

Encourage provision of non-City managed utilities, facilities and services that meet the needs of the City and accommodate future population and economic growth.

Policy UT-2.1

Work with providers to appropriately site new utility facilities to maintain a reliable level of service and accommodate growth. Provide data and population projections to assist providers in their utility planning.

Policy UT-2.2

Ensure the City's Comprehensive Plan and development regulations are consistent with and does not impair the fulfillment of public service obligations imposed upon utility providers by federal and state law. Work with utility providers to review local regulatory barriers for alternative and renewable energy sources and, if any are found, remove these barriers.

Policy UT-2.3

Ensure reasonable access to rights-of-way for all providers consistent with federal and state laws. Require notification to the city prior to a utility’s maintenance or removal of vegetation in city right-of-way.

Policy UT-2.4

Ensure that utilities are provided consistent with applicable rules, regulations and prudent utility practices.

GOAL UT-3

Locate utilities to minimize impacts on public health and safety, the surrounding development, the environment and interference with other public facilities.

Policy UT-3.1

Place utility facilities along public rights-of-way and encourage underground distribution lines in accordance with state rules and regulations.

Policy UT-3.2

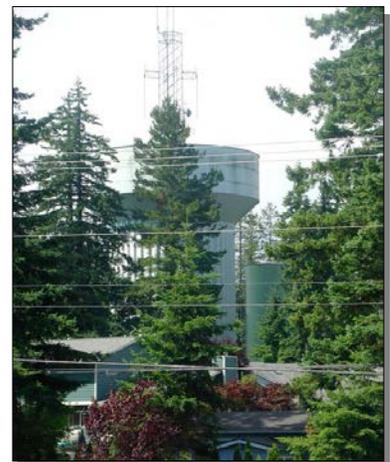
Coordinate the design and timing of installation and repair of utilities with street improvements whenever possible.

Policy UT-3.3

Protect the City’s rights-of-way from unnecessary damage and interference, and ensure restoration to pre-construction condition or better.

Policy UT-3.4

Minimize siting impacts of personal wireless telecommunication facilities by identifying development standards addressing appropriate permitting, locational priorities, visual impact, screening standards, and others as applicable, all within the regulations of applicable federal law.



City’s water tank at Lincoln Avenue

Policy UT-3.5

Minimize visual impacts of personal wireless telecommunication facilities by establishing location priorities. Placement for new personal wireless telecommunication facilities shall be in the following priority: 1) Co-locate on existing telecommunication facilities; 2) Co-locate antennas within rights-of-ways and existing structures (power poles, buildings, water towers); 3) Non-residential zoning districts; 4) Residential zoning districts.

Policy UT-3.6

Wireless telecommunication facilities shall be camouflaged by employing the best available technology. This may be accomplished by use of compatible materials, location, color, stealth technologies, and/or other strategies to achieve minimum visibility of the facility as viewed from public streets or residential properties.

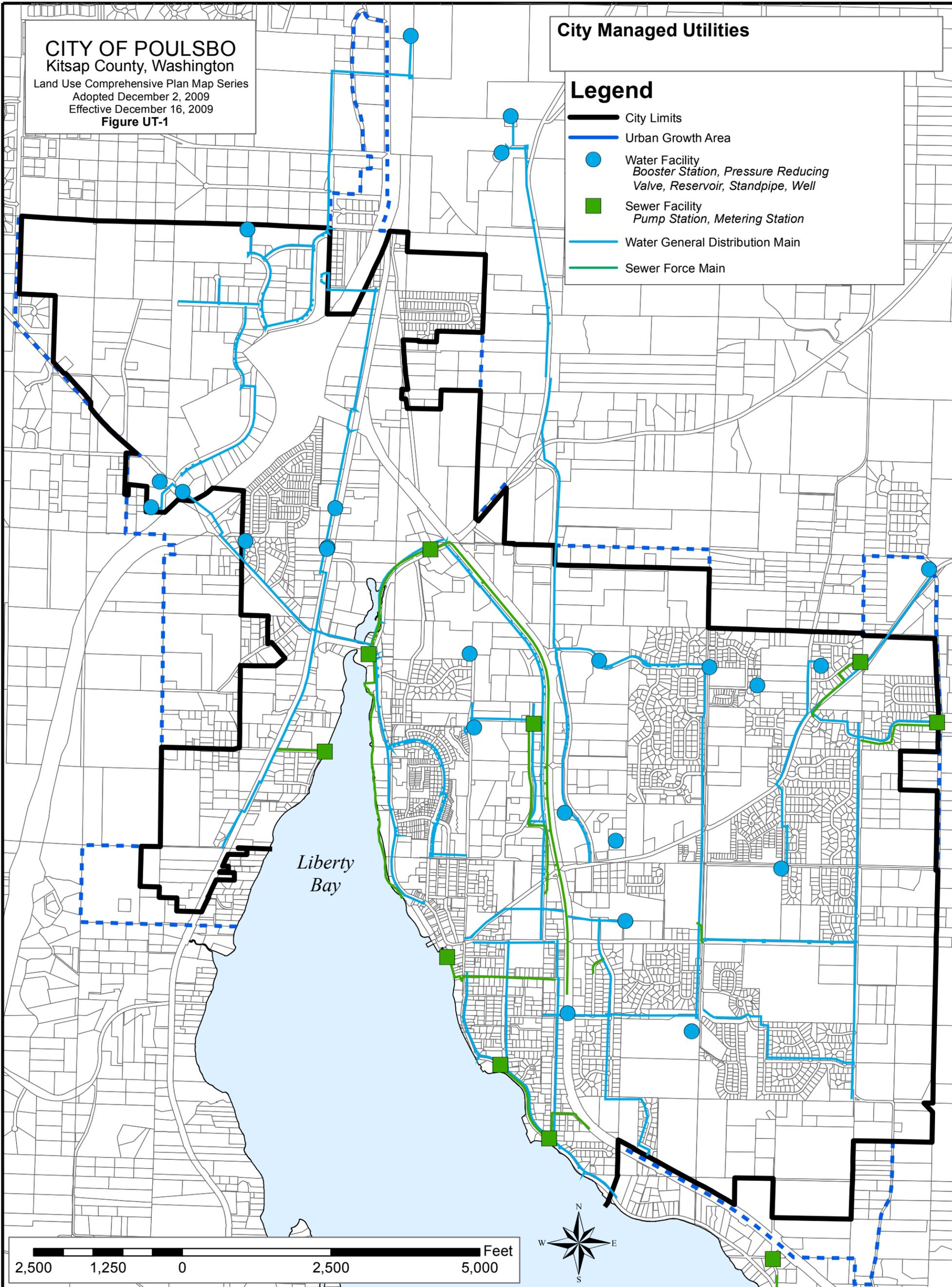
CITY OF POULSBO
Kitsap County, Washington

Land Use Comprehensive Plan Map Series
Adopted December 2, 2009
Effective December 16, 2009
Figure UT-1

City Managed Utilities

Legend

-  City Limits
-  Urban Growth Area
-  Water Facility
Booster Station, Pressure Reducing Valve, Reservoir, Standpipe, Well
-  Sewer Facility
Pump Station, Metering Station
-  Water General Distribution Main
-  Sewer Force Main



2,500 1,250 0 2,500 5,000 Feet



Infrastructure Map Series Primary Map Sources and Original Scales:
Major Water Facilities compiled using the Water System Plan, October 2007, from the City of Poulsbo Public Works Department
Major Sewer Facilities compiled using the Comprehensive Sanitary Sewer Plan, September 2008, from the City of Poulsbo Public Works Department
Kitsap County Assessor's Tax Maps 1:12,000 (Kitsap County IT, GIS Division)
* Note: Detailed water and sewer system mapping is in functional plans included as Appendix B.

This infrastructure map series is intended for general infrastructure planning. These maps are schematic representations of physical features, infrastructure and land ownership boundaries. The map information was derived from available public records and existing sources, not from surveys. Studies may be necessary with project review to verify information.

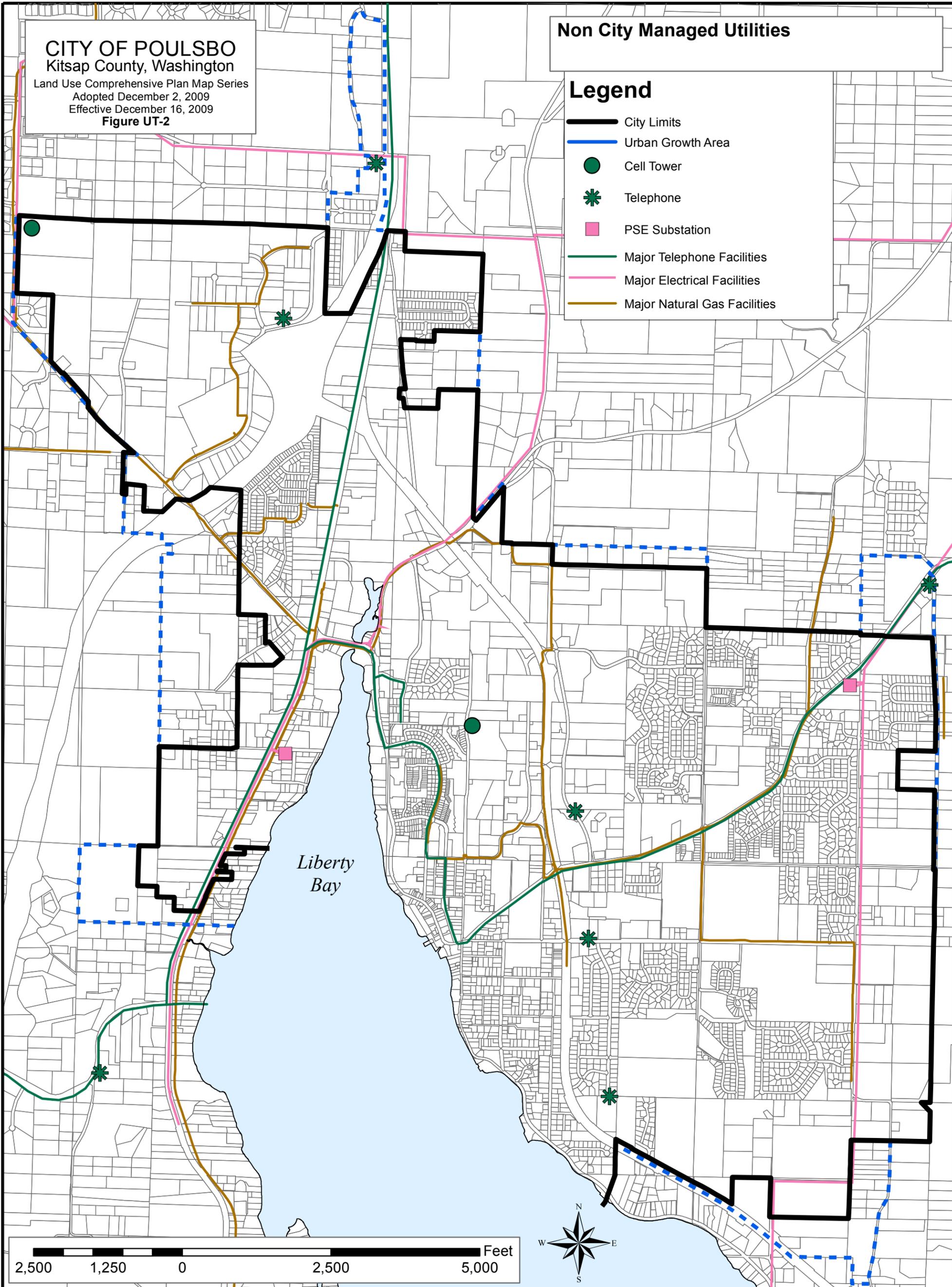
CITY OF POULSBO
Kitsap County, Washington

Land Use Comprehensive Plan Map Series
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Figure UT-2

Non City Managed Utilities

Legend

-  City Limits
-  Urban Growth Area
-  Cell Tower
-  Telephone
-  PSE Substation
-  Major Telephone Facilities
-  Major Electrical Facilities
-  Major Natural Gas Facilities



Infrastructure Map Series Primary Map Sources and Original Scales:
 Locations of natural gas facilities compiled using information from Cascade Natural Gas
 Locations of electric facilities compiled using information from Puget Sound Energy
 Locations of telephone facilities compiled using information from Sprint
 Kitsap County Assessor's Tax Maps 1:12,000 (Kitsap County IT, GIS Division)
 * Note: Detailed mapping is maintained by individual utilities and questions should be directed to appropriate provider.

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