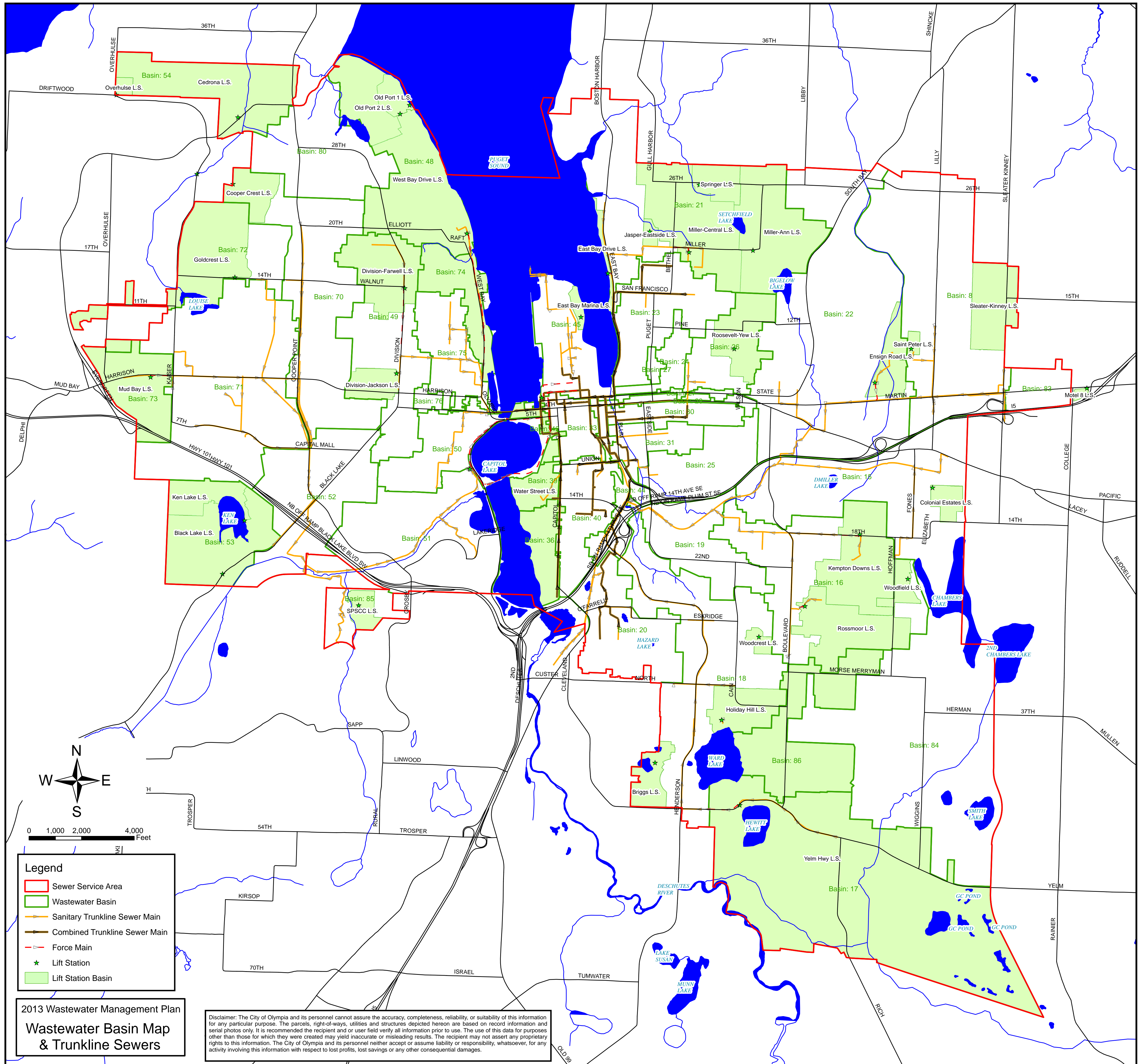


- Legend**
- Sewer Service Area
 - LOTT Treatment Plant
 - Olympia City Limits
 - Urban Growth Area

**2013 Wastewater Management Plan
Sewer Service Area Map**

Disclaimer: The City of Olympia and its personnel cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. The parcels, right-of-ways, utilities and structures depicted hereon are based on record information and aerial photos only. It is recommended the recipient and/or user field verify all information prior to use. The use of this data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may not assert any proprietary rights to this information. The City of Olympia and its personnel neither accept or assume liability or responsibility, whatsoever, for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.

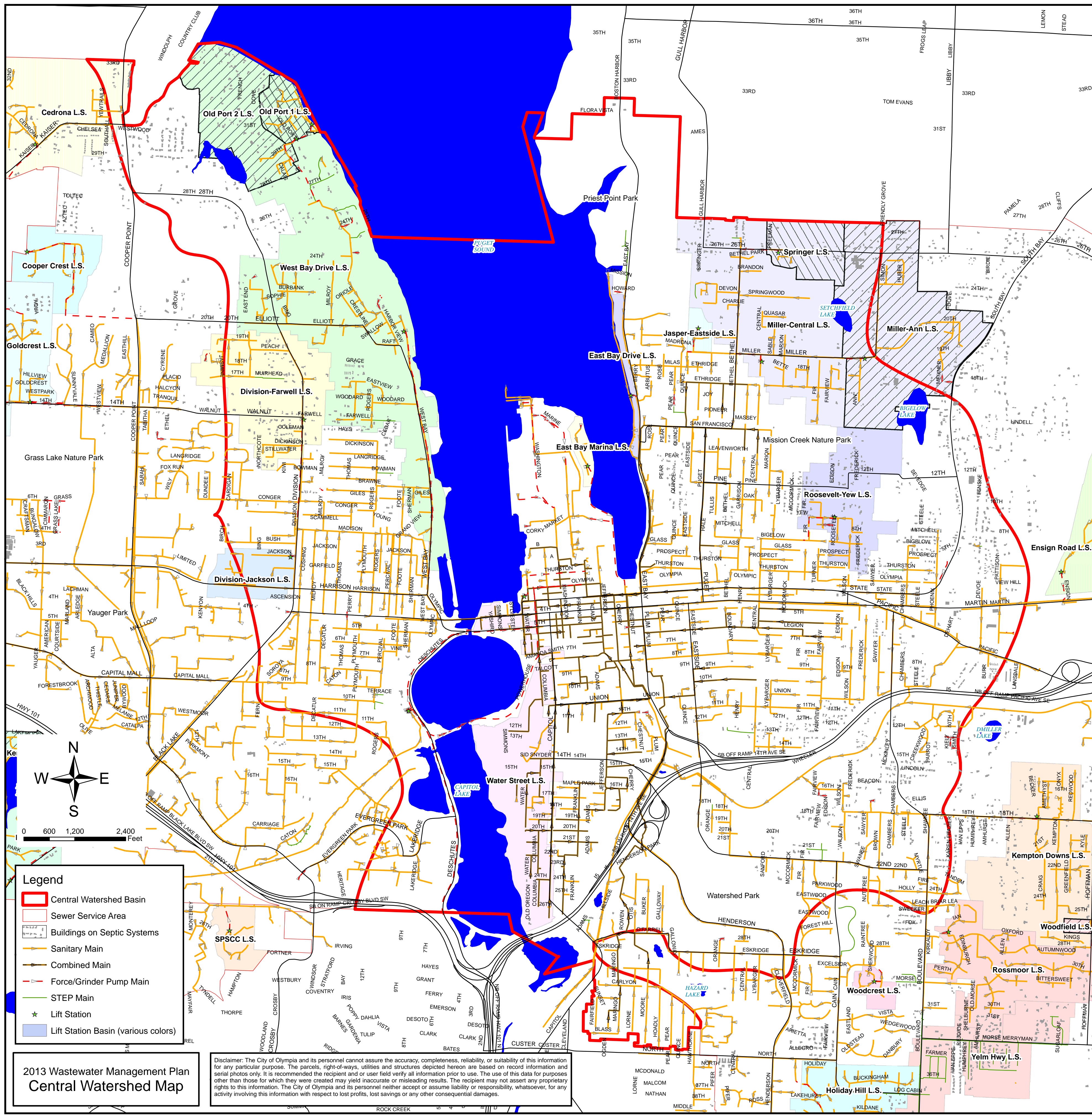


Legend

- Sewer Service Area
- Wastewater Basin
- Sanitary Trunkline Sewer Main
- Combined Trunkline Sewer Main
- Force Main
- ★ Lift Station
- Lift Station Basin

2013 Wastewater Management Plan
Wastewater Basin Map
& Trunkline Sewers

Disclaimer: The City of Olympia and its personnel cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. The parcels, right-of-ways, utilities and structures depicted hereon are based on record information and aerial photos only. It is recommended the recipient and/or user field verify all information prior to use. The use of this data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may not assert any proprietary rights to this information. The City of Olympia and its personnel neither accept or assume liability or responsibility, whatsoever, for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.

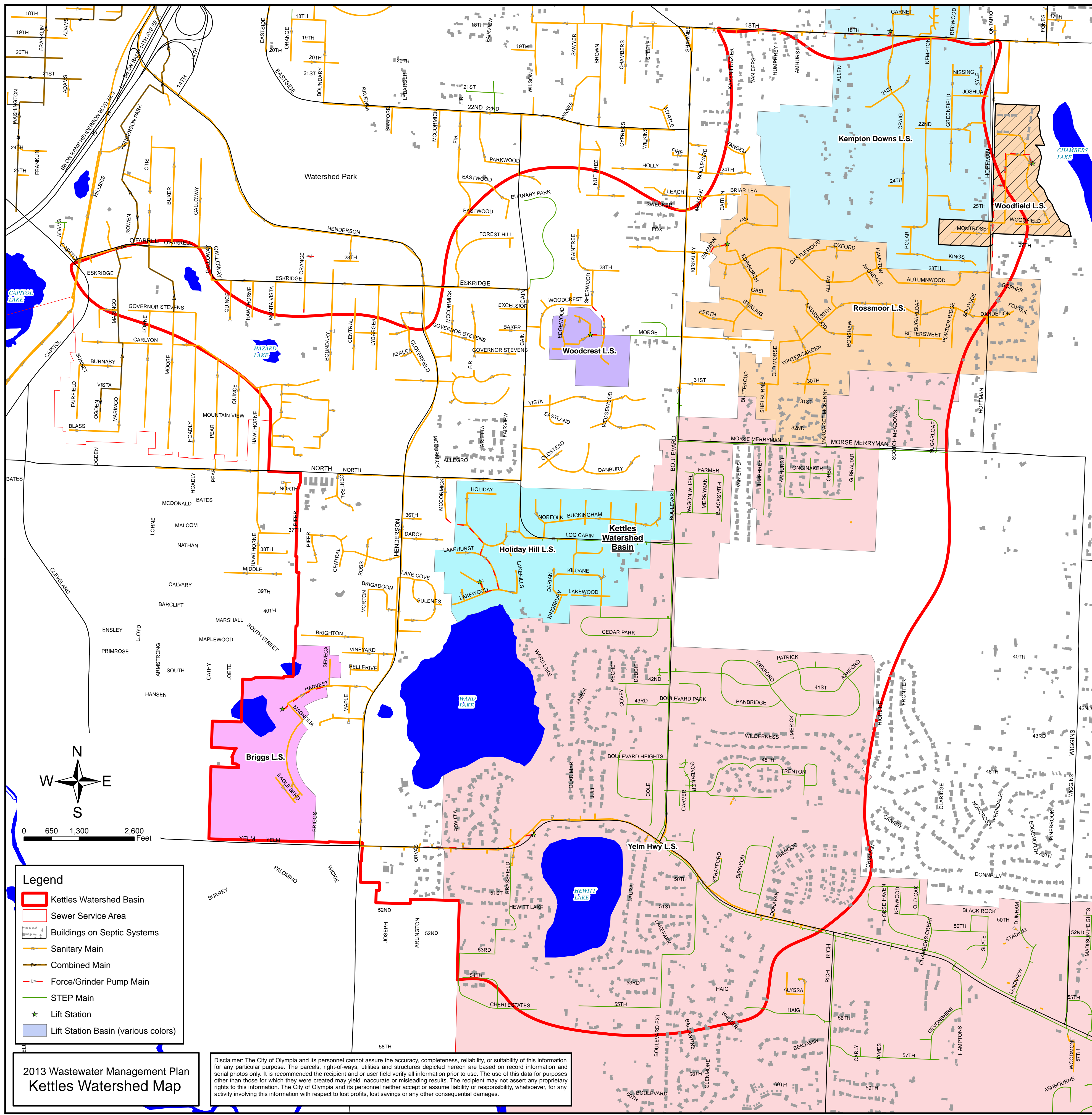


Legend

- Central Watershed Basin
- Sewer Service Area
- Buildings on Septic Systems
- Sanitary Main
- Combined Main
- Force/Grinder Pump Main
- STEP Main
- ★ Lift Station
- Lift Station Basin (various colors)

**2013 Wastewater Management Plan
Central Watershed Map**

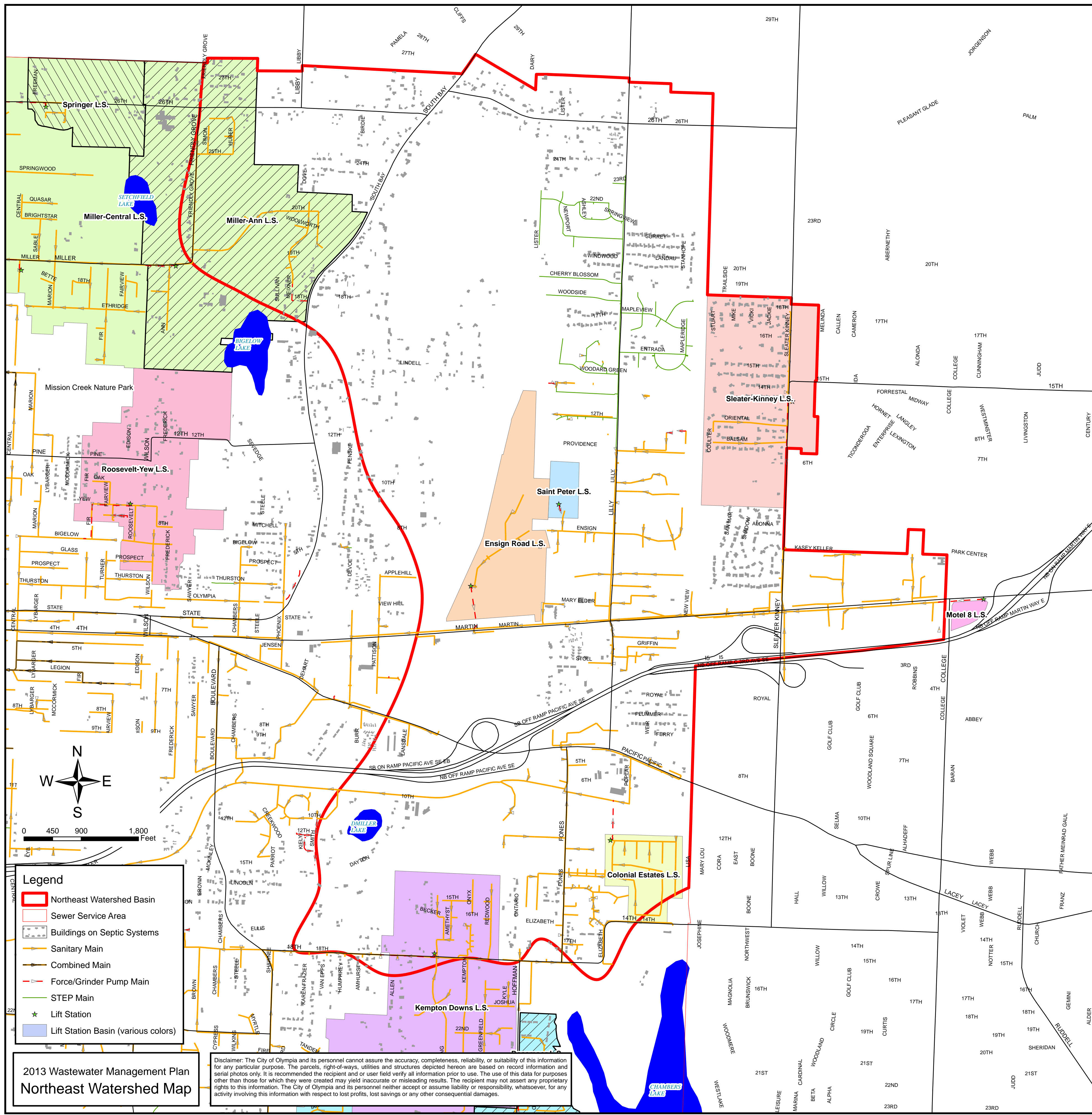
Disclaimer: The City of Olympia and its personnel cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. The parcels, right-of-ways, utilities and structures depicted hereon are based on record information and aerial photos only. It is recommended the recipient or user field verify all information prior to use. The use of this data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may not assert any proprietary rights to this information. The City of Olympia and its personnel neither accept or assume liability or responsibility, whatsoever, for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.



- Legend**
- Kettles Watershed Basin
 - Sewer Service Area
 - Buildings on Septic Systems
 - Sanitary Main
 - Combined Main
 - Force/Grinder Pump Main
 - STEP Main
 - ★ Lift Station
 - Lift Station Basin (various colors)

**2013 Wastewater Management Plan
Kettles Watershed Map**

Disclaimer: The City of Olympia and its personnel cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. The parcels, right-of-ways, utilities and structures depicted hereon are based on record information and aerial photos only. It is recommended the recipient and/or user field verify all information prior to use. The use of this data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may not assert any proprietary rights to this information. The City of Olympia and its personnel neither accept or assume liability or responsibility, whatsoever, for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.



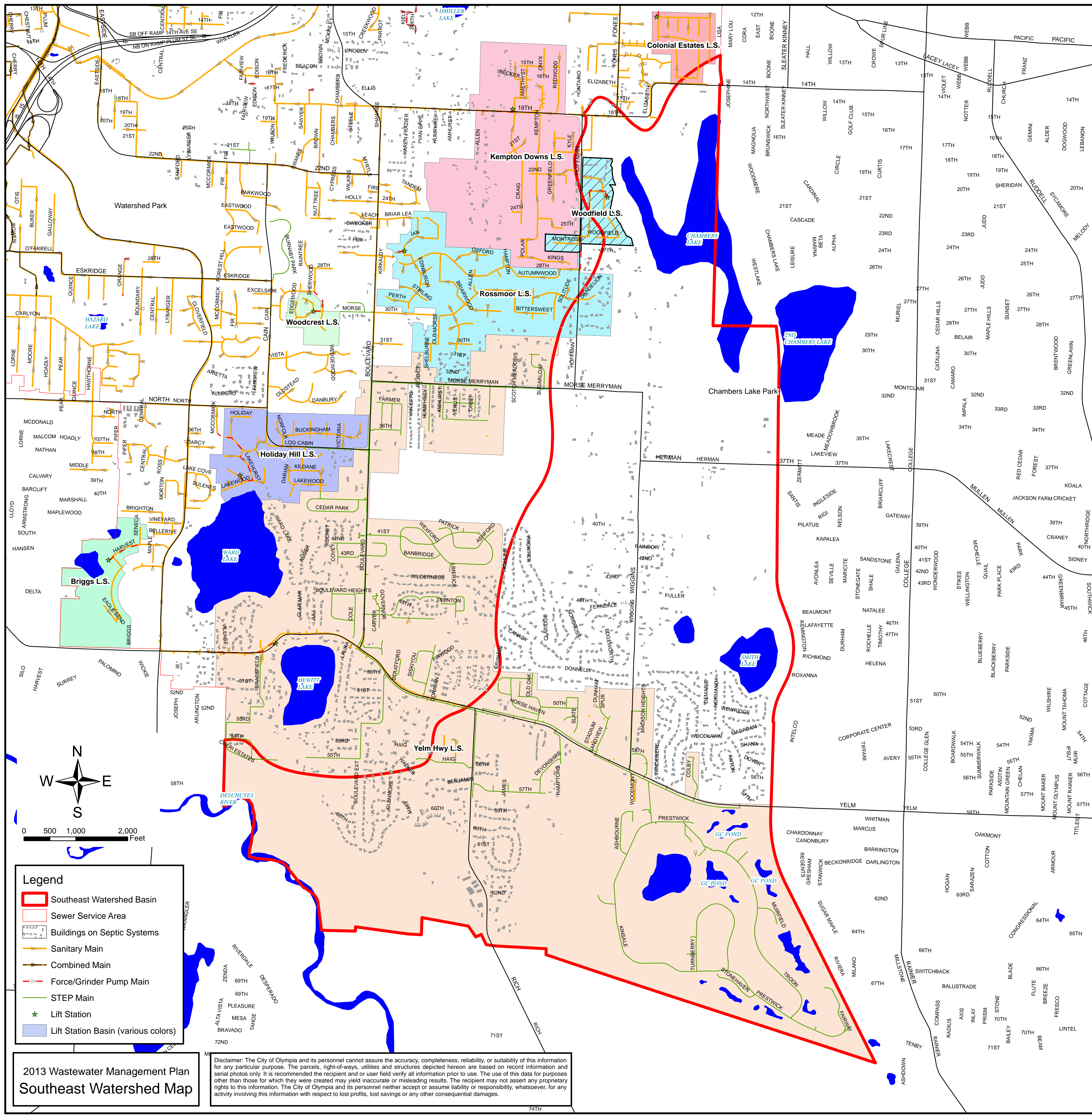
Legend

- Northeast Watershed Basin
- Sewer Service Area
- Buildings on Septic Systems
- Sanitary Main
- Combined Main
- Force/Grinder Pump Main
- STEP Main
- ★ Lift Station
- Lift Station Basin (various colors)

**2013 Wastewater Management Plan
Northeast Watershed Map**

Disclaimer: The City of Olympia and its personnel cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. The parcels, right-of-ways, utilities and structures depicted hereon are based on record information and aerial photos only. It is recommended the recipient and/or user field verify all information prior to use. The use of this data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may not assert any proprietary rights to this information. The City of Olympia and its personnel neither accept or assume liability or responsibility, whatsoever, for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.

CHAMBERS LAKE

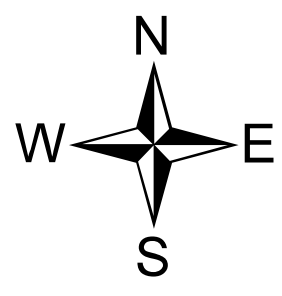
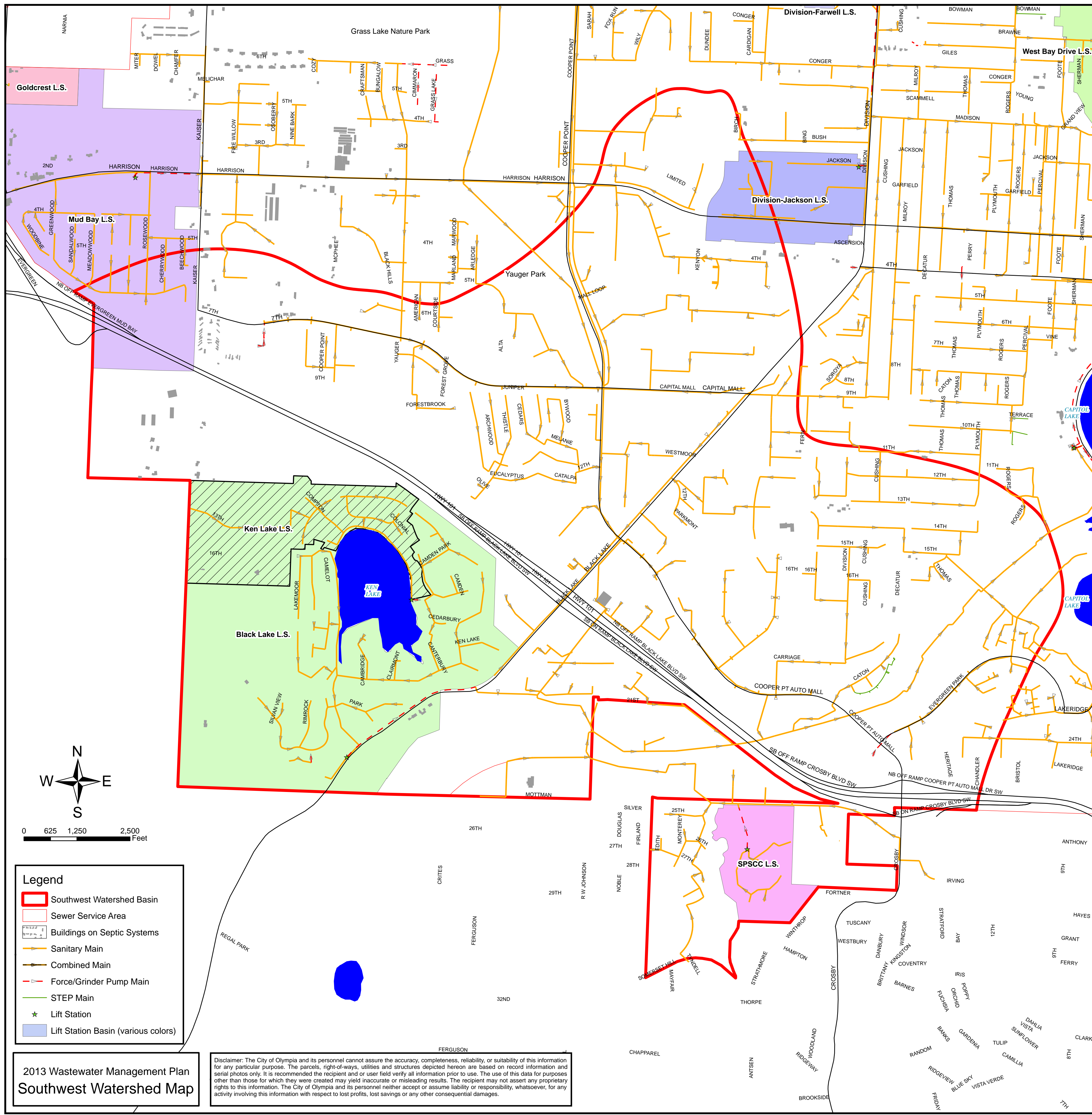


Legend

- Southeast Watershed Basin
- Sewer Service Area
- Buildings on Septic Systems
- Sanitary Main
- Combined Main
- Force/Grinder Pump Main
- STEP Main
- ★ Lift Station
- Lift Station Basin (various colors)

**2013 Wastewater Management Plan
Southeast Watershed Map**

Disclaimer: The City of Olympia and its personnel cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. The parcels, right-of-ways, utilities and structures depicted herein are based on record information and aerial photos only. It is recommended the recipient and/or user field verify all information prior to use. The use of this data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may not assert any proprietary rights to this information. The City of Olympia and its personnel neither accept or assume liability or responsibility, whatsoever, for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.



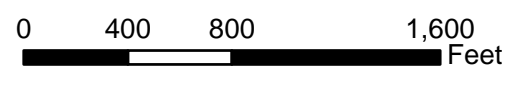
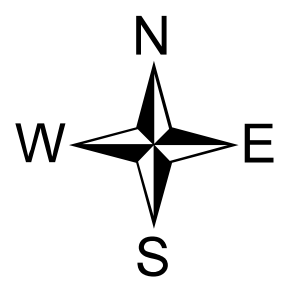
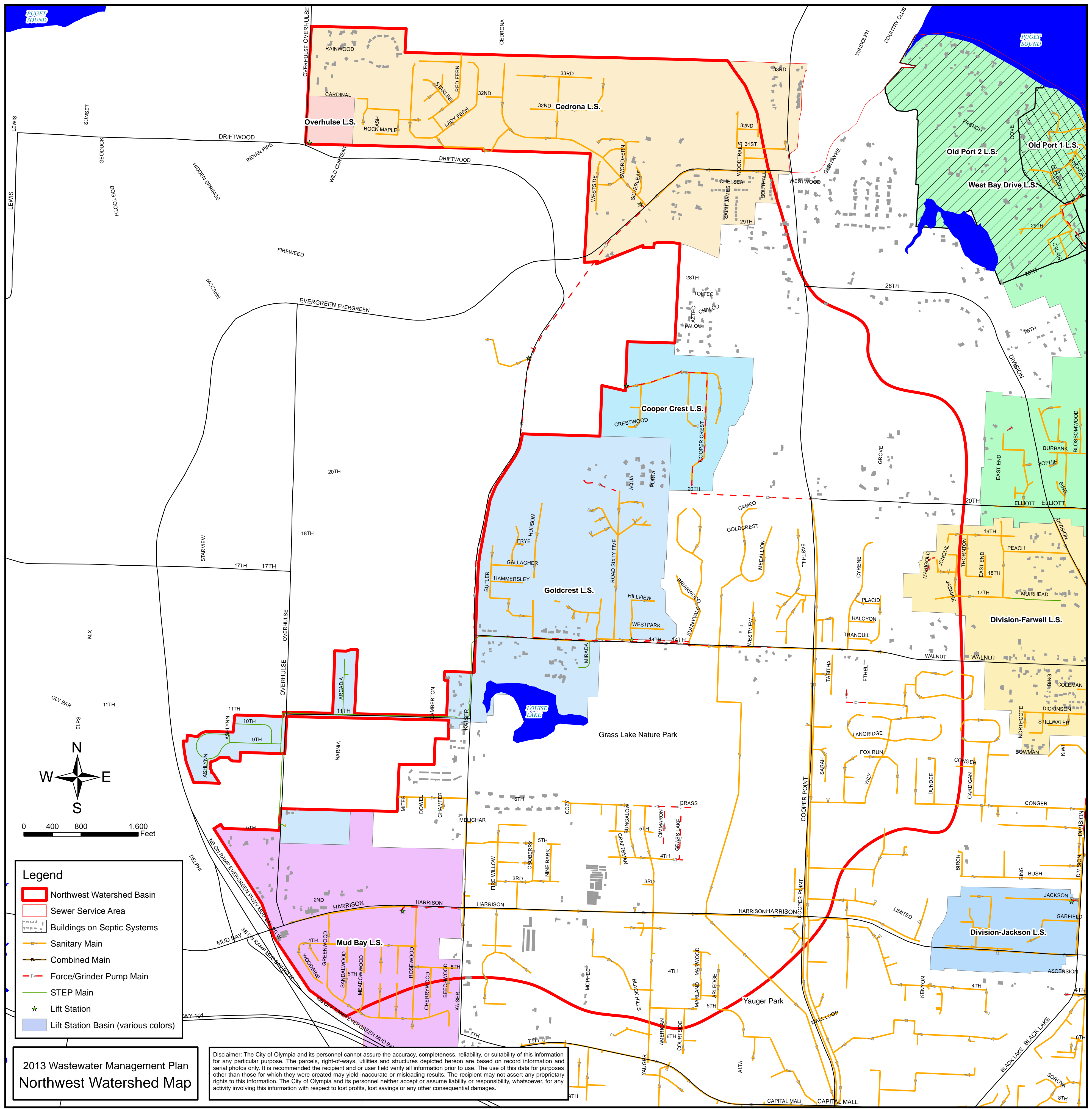
0 625 1,250 2,500 Feet

Legend

- Southwest Watershed Basin
- Sewer Service Area
- Buildings on Septic Systems
- Sanitary Main
- Combined Main
- Force/Grinder Pump Main
- STEP Main
- ★ Lift Station
- Lift Station Basin (various colors)

**2013 Wastewater Management Plan
Southwest Watershed Map**

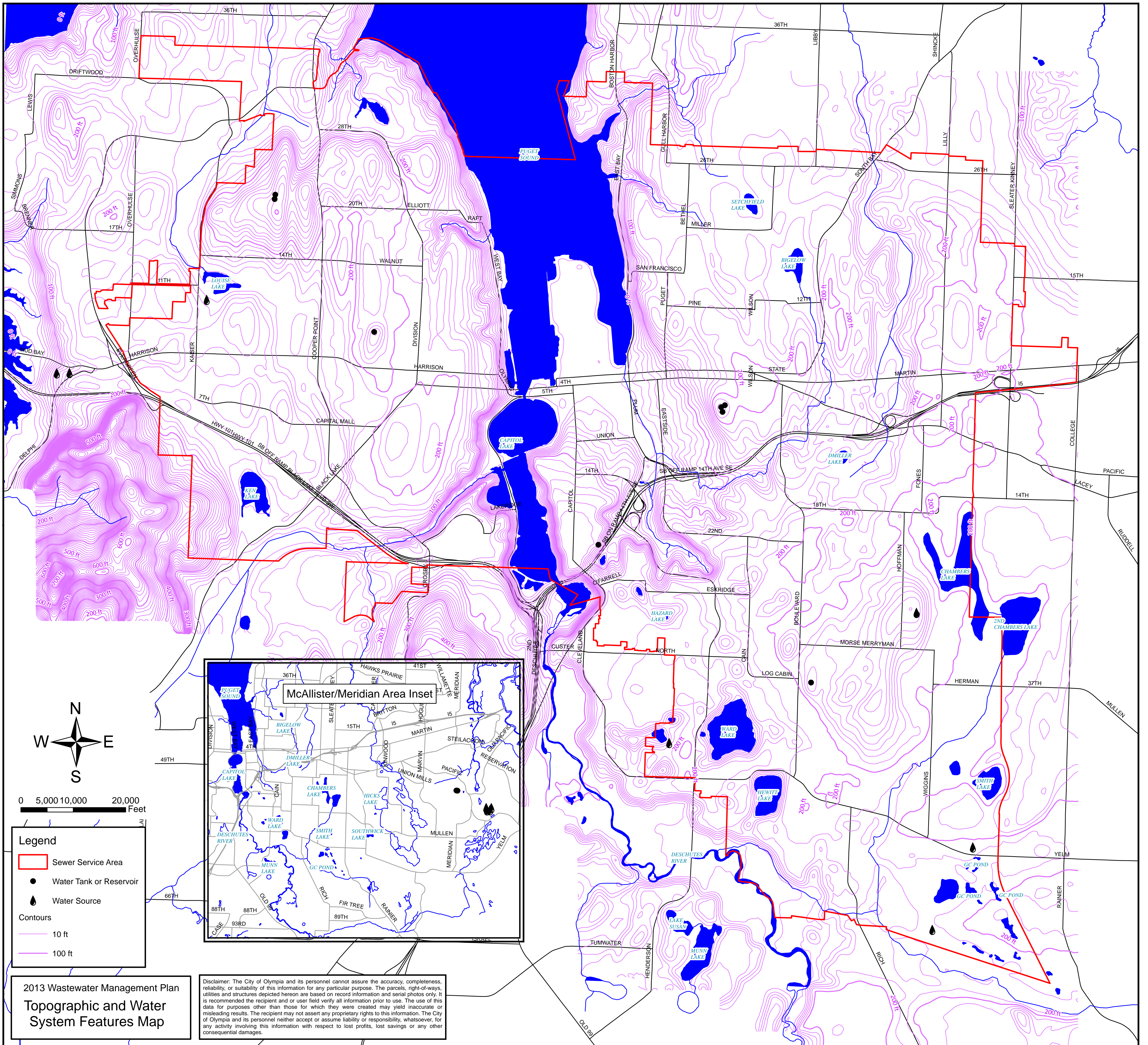
Disclaimer: The City of Olympia and its personnel cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. The parcels, right-of-ways, utilities and structures depicted hereon are based on record information and aerial photos only. It is recommended the recipient and/or user field verify all information prior to use. The use of this data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may not assert any proprietary rights to this information. The City of Olympia and its personnel neither accept or assume liability or responsibility, whatsoever, for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.



- Legend**
- Northwest Watershed Basin
 - Sewer Service Area
 - Buildings on Septic Systems
 - Sanitary Main
 - Combined Main
 - Force/Grinder Pump Main
 - STEP Main
 - ★ Lift Station
 - Lift Station Basin (various colors)

**2013 Wastewater Management Plan
Northwest Watershed Map**

Disclaimer: The City of Olympia and its personnel cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. The parcels, right-of-ways, utilities and structures depicted hereon are based on record information and aerial photos only. It is recommended the recipient and/or user field verify all information prior to use. The use of this data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may not assert any proprietary rights to this information. The City of Olympia and its personnel neither accept or assume liability or responsibility, whatsoever, for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.



Legend

- Sewer Service Area
- Water Tank or Reservoir
- Water Source

Contours

- 10 ft
- 100 ft

**2013 Wastewater Management Plan
Topographic and Water
System Features Map**

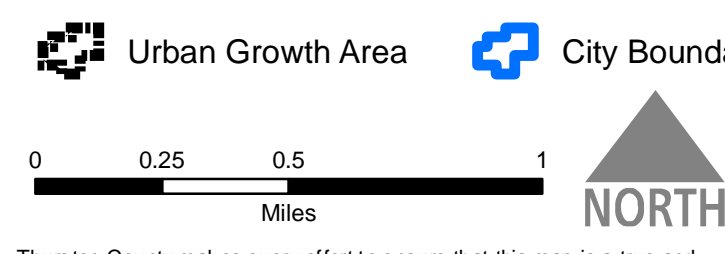
Disclaimer: The City of Olympia and its personnel cannot assure the accuracy, completeness, reliability, or suitability of this information for any particular purpose. The parcels, right-of-ways, utilities and structures depicted herein are based on record information and aerial photos only. It is recommended the recipient and/or user field verify all information prior to use. The use of this data for purposes other than those for which they were created may yield inaccurate or misleading results. The recipient may not assert any proprietary rights to this information. The City of Olympia and its personnel neither accept or assume liability or responsibility, whatsoever, for any activity involving this information with respect to lost profits, lost savings or any other consequential damages.

Urban Area Septic System Analysis

Neighborhood Septic Density Analysis

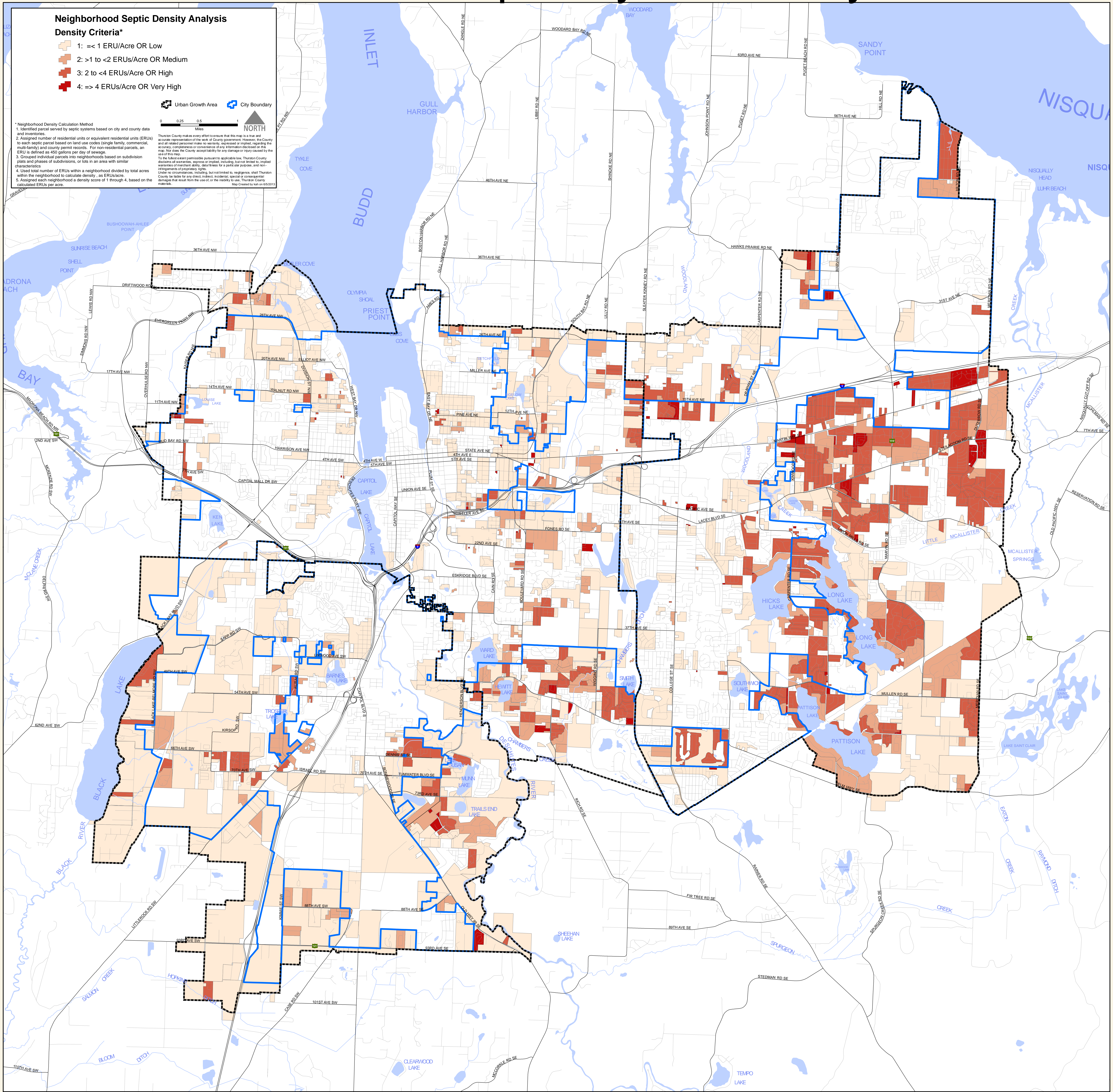
Density Criteria*

- 1: ≤ 1 ERU/Acre OR Low
- 2: > 1 to < 2 ERUs/Acre OR Medium
- 3: 2 to < 4 ERUs/Acre OR High
- 4: ≥ 4 ERUs/Acre OR Very High



*Neighborhood Density Calculation Method
 1. Identified parcel served by septic systems based on city and county data and inventories.
 2. Assigned number of residential units or equivalent residential units (ERUs) to each septic parcel based on land use codes (single family, commercial, multi-family) and county permit records. For non-residential parcels, an ERU is defined as 450 gallons per day of sewage.
 3. Grouped individual parcels into neighborhoods based on subdivision plans and phases of subdivisions, or lots in an area with similar characteristics.
 4. Used total number of ERUs within a neighborhood divided by total acres within the neighborhood to calculate density - as ERUs/acre.
 5. Assigned each neighborhood a density score of 1 through 4, based on the calculated ERUs per acre.

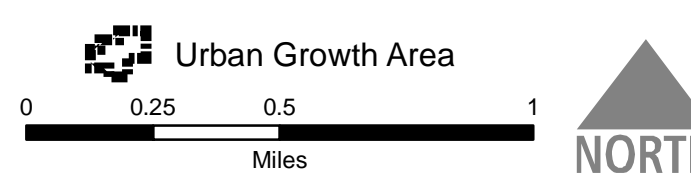
This map is a true and accurate representation of the work of County government. However, the County and all related personnel make no warranty, expressed or implied, regarding the accuracy, completeness or convenience of any information disclosed on this map. The County accepts liability for any damage or injury caused by the use of this map.
 To the latest extent permissible pursuant to applicable law, Thurston County disclaims all warranties, express or implied, including, but not limited to, implied warranties of merchantability, fitness for a particular purpose, and non-infringement of proprietary rights. Under no circumstances, including, but not limited to, negligence, shall Thurston County be liable for any direct, indirect, incidental, special or consequential damages that result from the use of, or the inability to use, Thurston County materials. Map Created by Kim on 05/20/2013



Urban Area Septic System Analysis

Septic Density Analysis - Septic Parcel to Neighborhood Relationship

- Reported Septic Parcel with at Least One Reported ERU/Septic
- Neighborhood with at Least One Reported ERU/Septic
- Mapped Sewer Lines



Neighborhood Density Calculation Method

- Identified parcel served by septic systems based on city and county data and inventories.
- Assigned number of residential units or equivalent residential units (ERUs) to each septic parcel based on land use codes (single family, commercial, multi-family) and county permit records. For non-residential parcels, an ERU is defined as 450 gallons per day of sewage.
- Grouped individual parcels into neighborhoods based on subdivision plans and phases of subdivisions, or lots in an area with similar characteristics.
- Used total number of ERUs within a neighborhood divided by total acres within the neighborhood to calculate density - as ERUs/acre.
- Assigned each neighborhood a density score of 1 through 4, based on the calculated ERUs per acre.

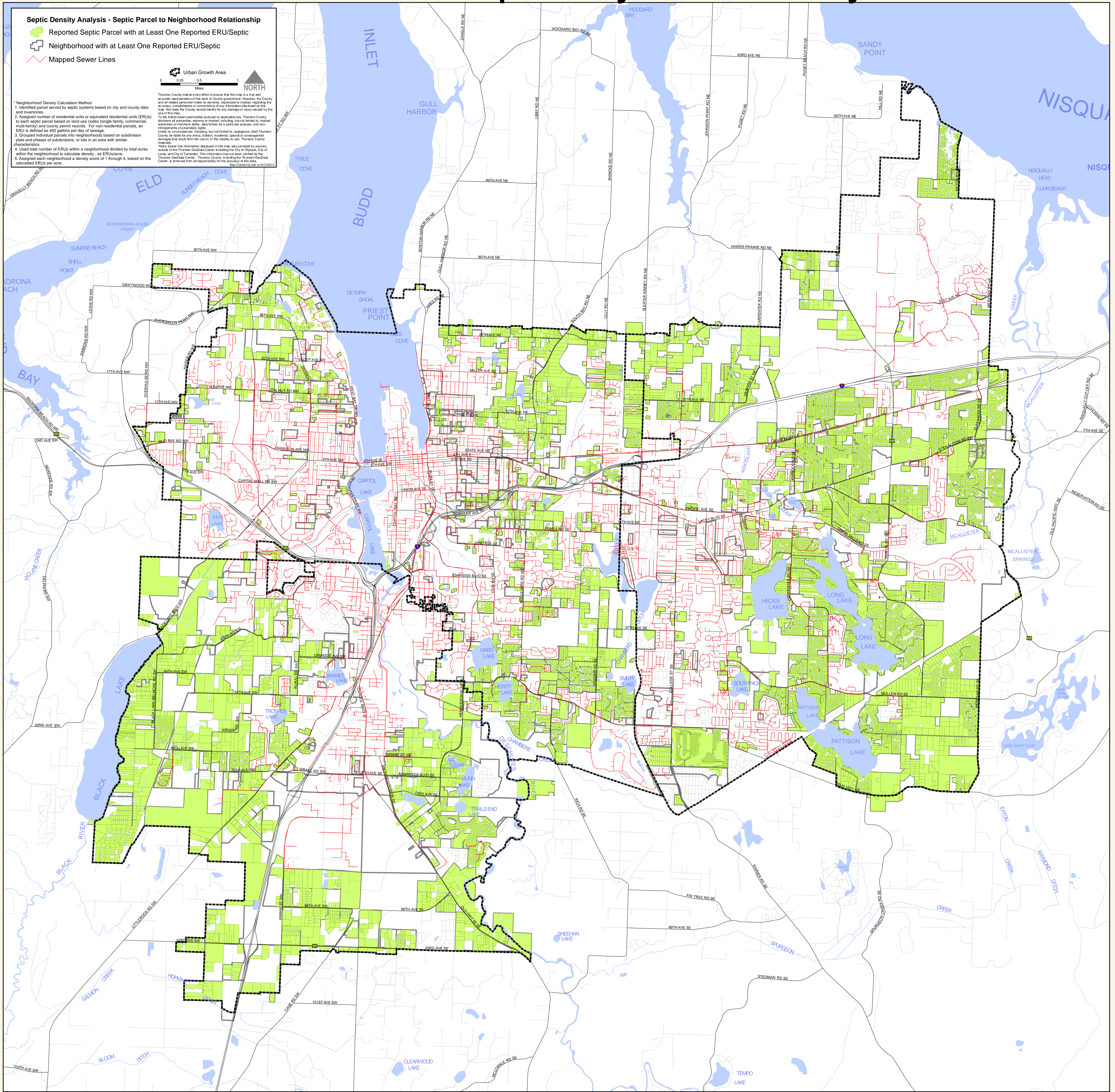
Thurston County makes every effort to ensure that this map is a true and accurate representation of the work of County government. However, Thurston County and all related personnel make no warranty, expressed or implied, regarding the accuracy, completeness or correctness of any information displayed on this map. No does the County accept liability for any damage or injury caused by the use of this map.

To the fullest extent permissible pursuant to applicable law, Thurston County disclaims all warranties, express or implied, including but not limited to, implied warranties of merchant ability, fitness for a particular purpose, and non-infringement of proprietary rights.

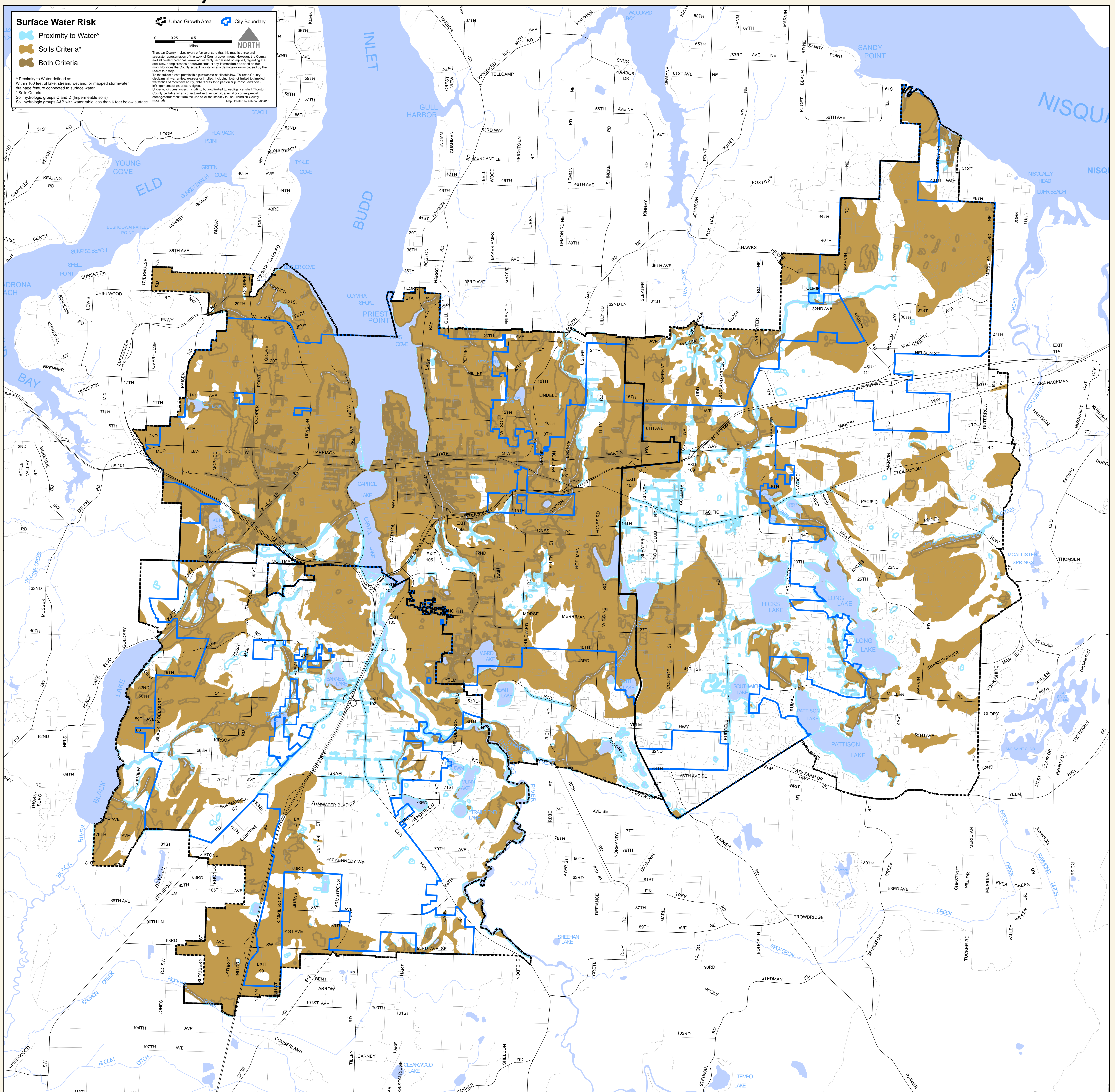
Under no circumstances, including, but not limited to, negligence, shall Thurston County be liable for any direct, indirect, incidental, special or consequential damages that result from the use of, or the inability to use, Thurston County materials.

Note: Sewer line information displayed in this map was provided by sources available to the Thurston Geographic Center including the City of Olympia, City of Lacey and City of Tumwater. This information has not been verified by the Thurston Geographic Center. Thurston County, including the Thurston Geographic Center, is removed from all responsibility for the accuracy of this data.

Map Created by tsh on 03/23/2013



OLYMPIA, LACEY & TUMWATER SEPTIC ANALYSIS



Urban Area Septic System Analysis

Surface Water Risk Categories - Neighborhoods

Surface Water & Density Overall Score

- No Septic Parcels Reported
- 1 - Low Density
- 2 - Low + 1 Risk Category OR Medium
- 3 - Low + 2 Risk Categories OR Medium + 1 Risk Category OR High
- 4 - Medium + 2 Risk Categories OR High + 1 Risk Category OR Very High
- 5 - High + 2 Risk Categories OR Very High + 1 Risk Category
- 6 - Very High + 2 Risk Categories

Surface Water Criteria
Proximity to Water defined as -
Within 100 feet of lake, stream, wetland, or mapped stormwater drainage feature connected to surface water.

Soils Criteria
Soil hydrologic groups C and D (impermeable soils).
Soil hydrologic groups A&B with water table less than 6 feet below surface.

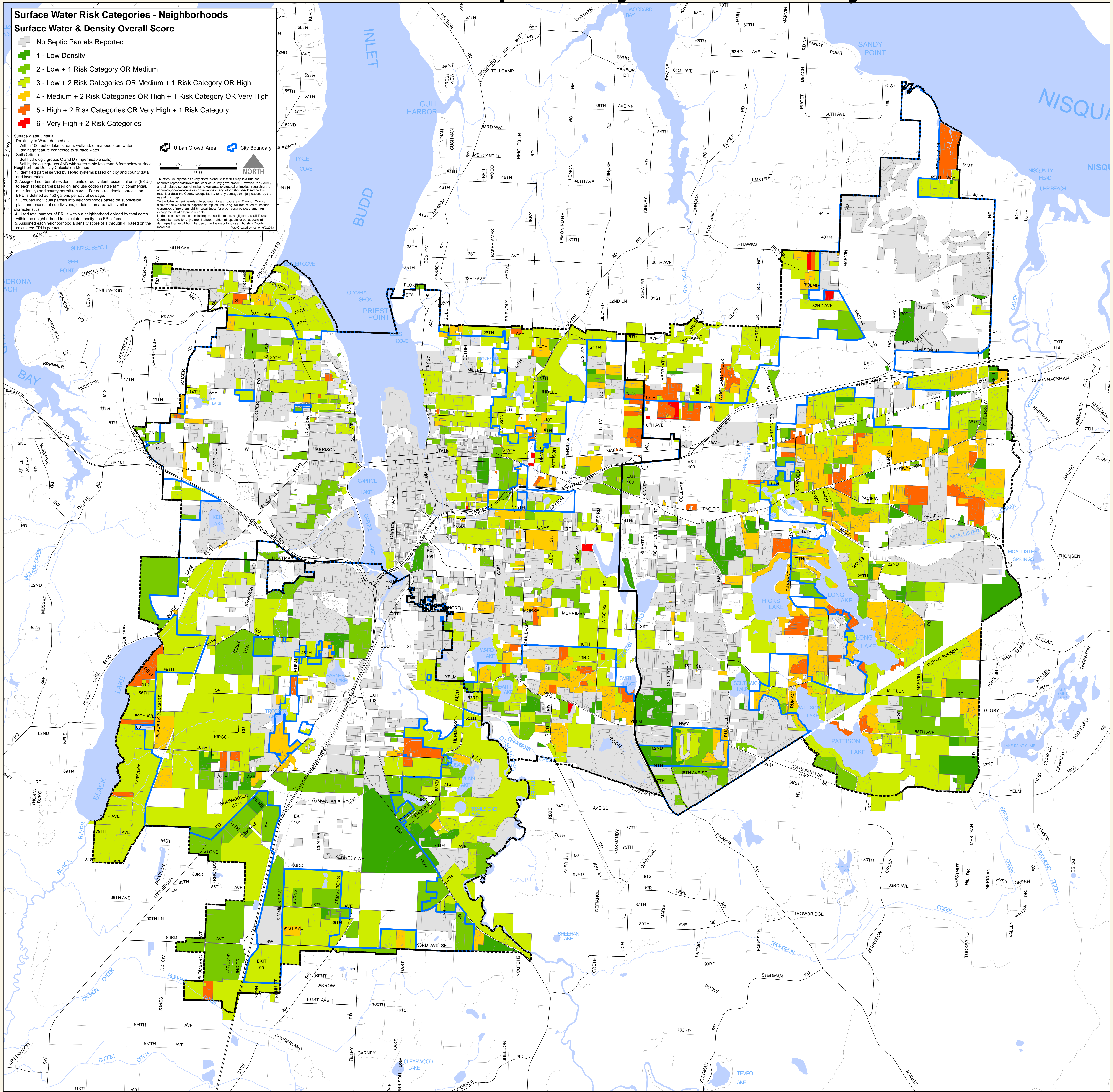
Neighborhood Density Calculation Method
1. Identified parcel served by septic systems based on city and county data and inventories.
2. Assigned number of residential units or equivalent residential units (ERUs) to each septic parcel based on land use codes (single family, commercial, multi-family and county permit records. For non-residential parcels, an ERU is defined as 450 gallons per day of sewage).
3. Grouped individual parcels into neighborhoods based on subdivision plans and phases of subdivisions, or lots in an area with similar characteristics.
4. Used total number of ERUs within a neighborhood divided by total acres within the neighborhood to calculate density, as ERUs/acre.
5. Assigned each neighborhood a density score of 1 through 4, based on the calculated ERUs per acre.

Urban Growth Area **City Boundary**

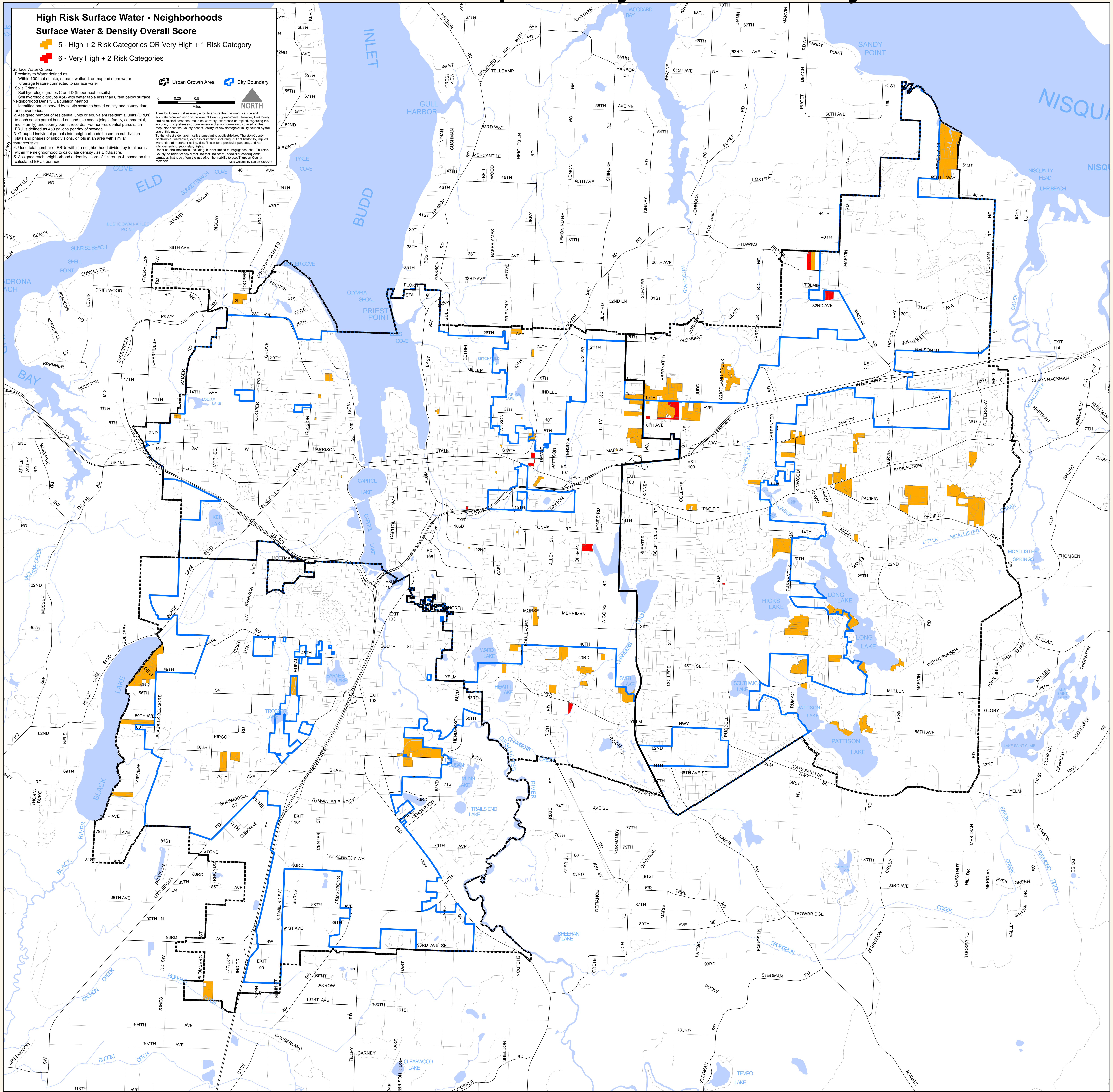
0 0.25 0.5 1 Miles

NORTH

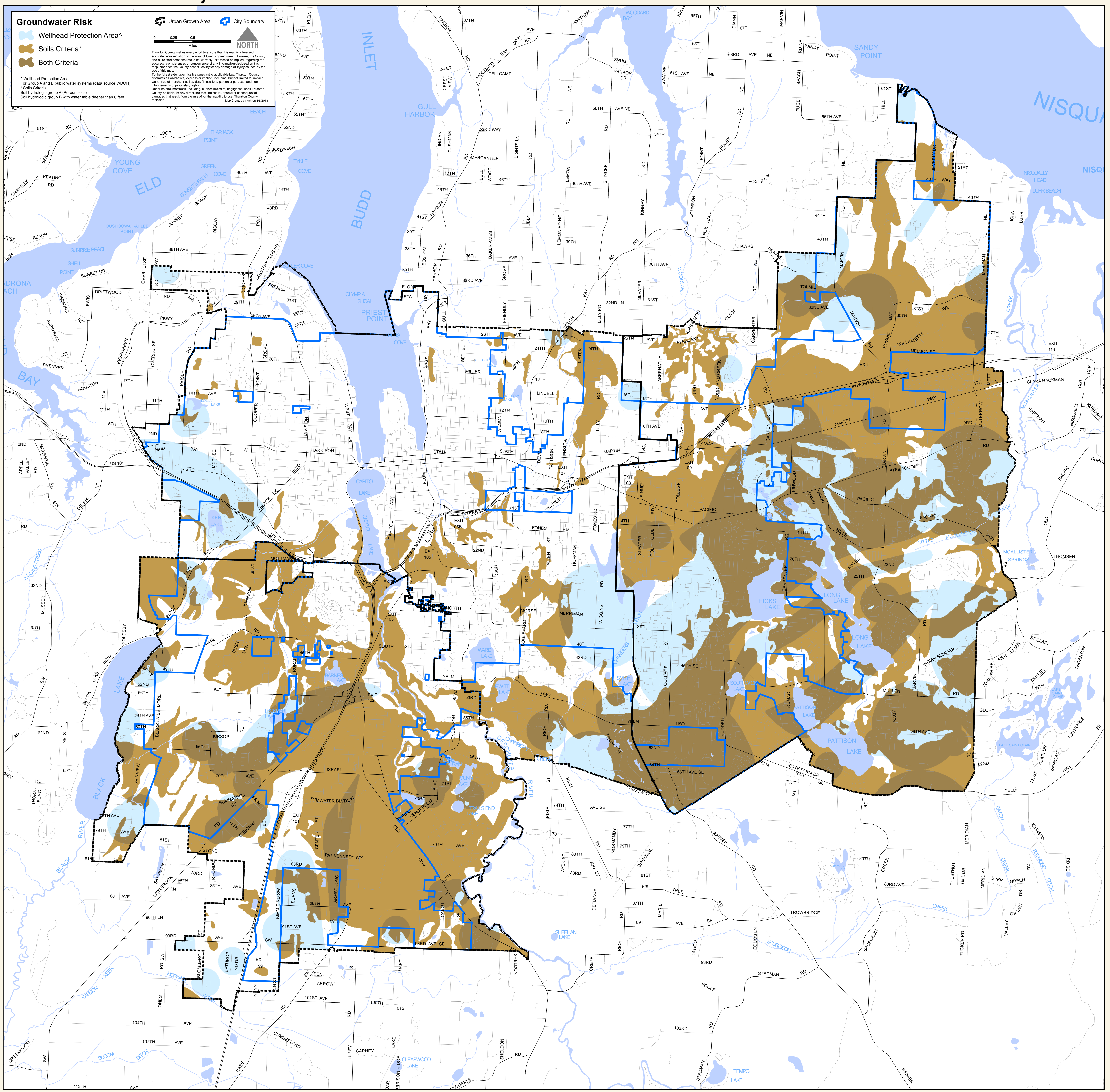
Thurston County makes every effort to ensure that this map is a true and accurate representation of the work of County government. However, the County and all related personnel make no warranty, expressed or implied, regarding the accuracy, completeness or correctness of any information disclosed on this map. Nor does the County accept liability for any damage or injury caused by the use of this map. To the fullest extent permitted by applicable law, Thurston County disclaims all warranties, express or implied, including, but not limited to, implied warranties of merchantability, fitness for a particular purpose, and non-infringement of proprietary rights. Under no circumstances, including, but not limited to, negligence, shall Thurston County be liable for any direct, indirect, incidental, special or consequential damages that result from the use of or the inability to use, Thurston County materials. Map Created by John on 05/20/13



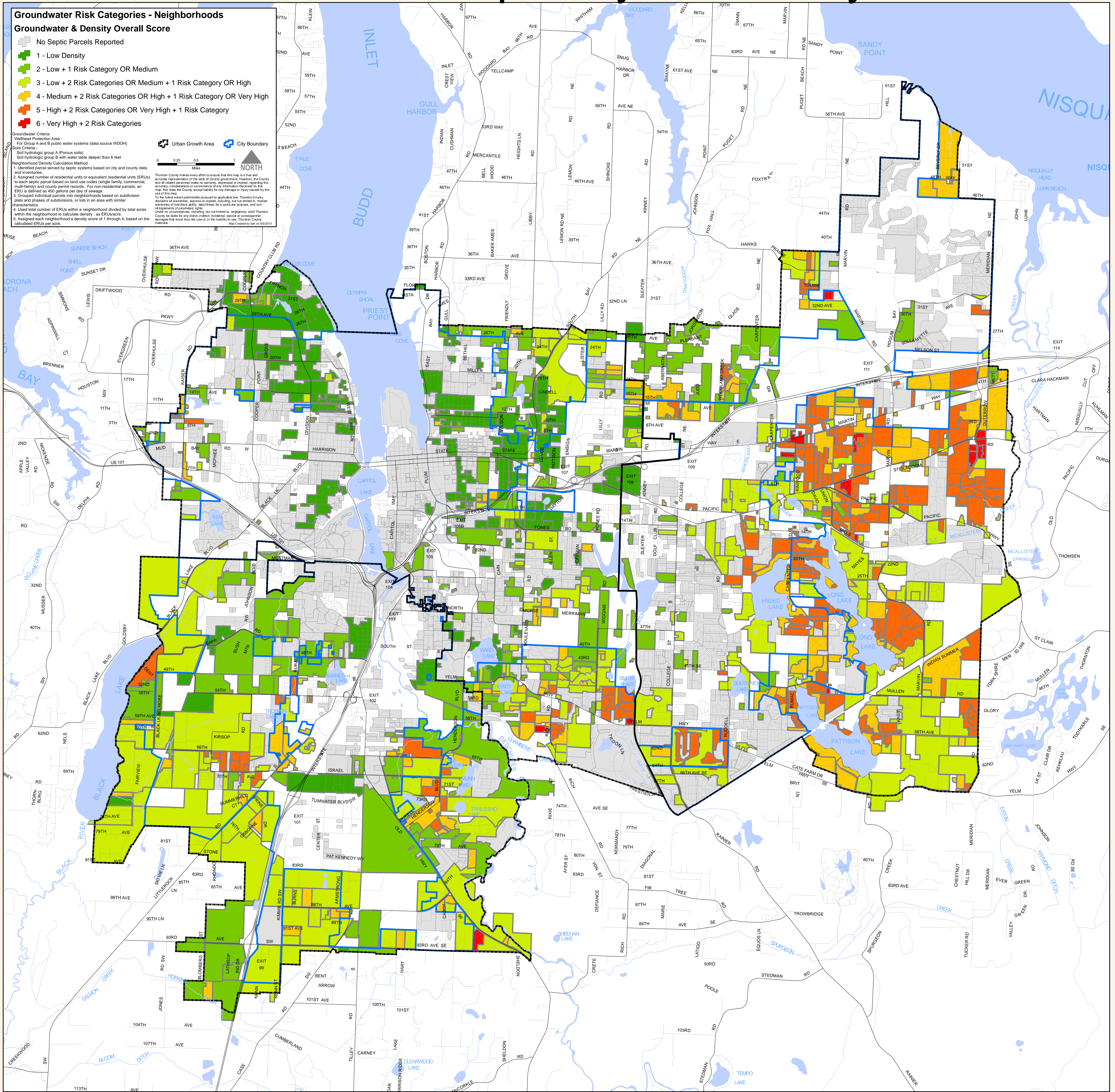
Urban Area Septic System Analysis



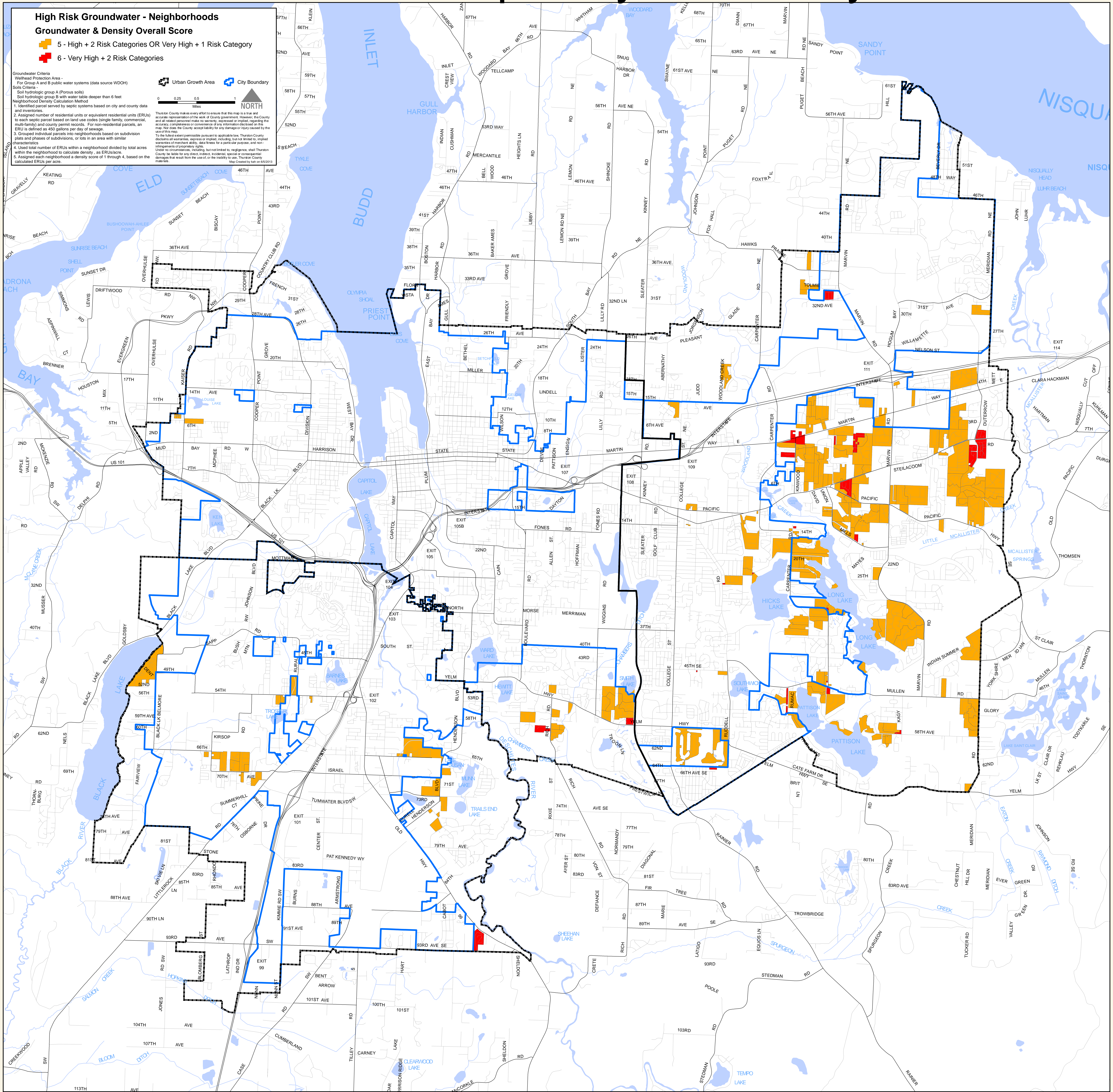
OLYMPIA, LACEY & TUMWATER SEPTIC ANALYSIS



Urban Area Septic System Analysis



Urban Area Septic System Analysis



Urban Area Septic System Analysis

