



Plate 2 Geologic Map of the Study Area

Geologic and Hydrogeologic Study of the Residential Acreage Zoned Area of Marion County Underlain by the Columbia River Basalt and Older Rock

Geologic data for this map is from a variety of sources, including aerial photography, ground truthing, and existing geologic maps. The geologic map is a compilation of data from a variety of sources, including aerial photography, ground truthing, and existing geologic maps. The geologic map is a compilation of data from a variety of sources, including aerial photography, ground truthing, and existing geologic maps.

Oregon State Plane Coordinate System
East Zone NAD 83 Datum
Map Scale: 1 inch equals 1 mile
North Arrow

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Planning & Economic
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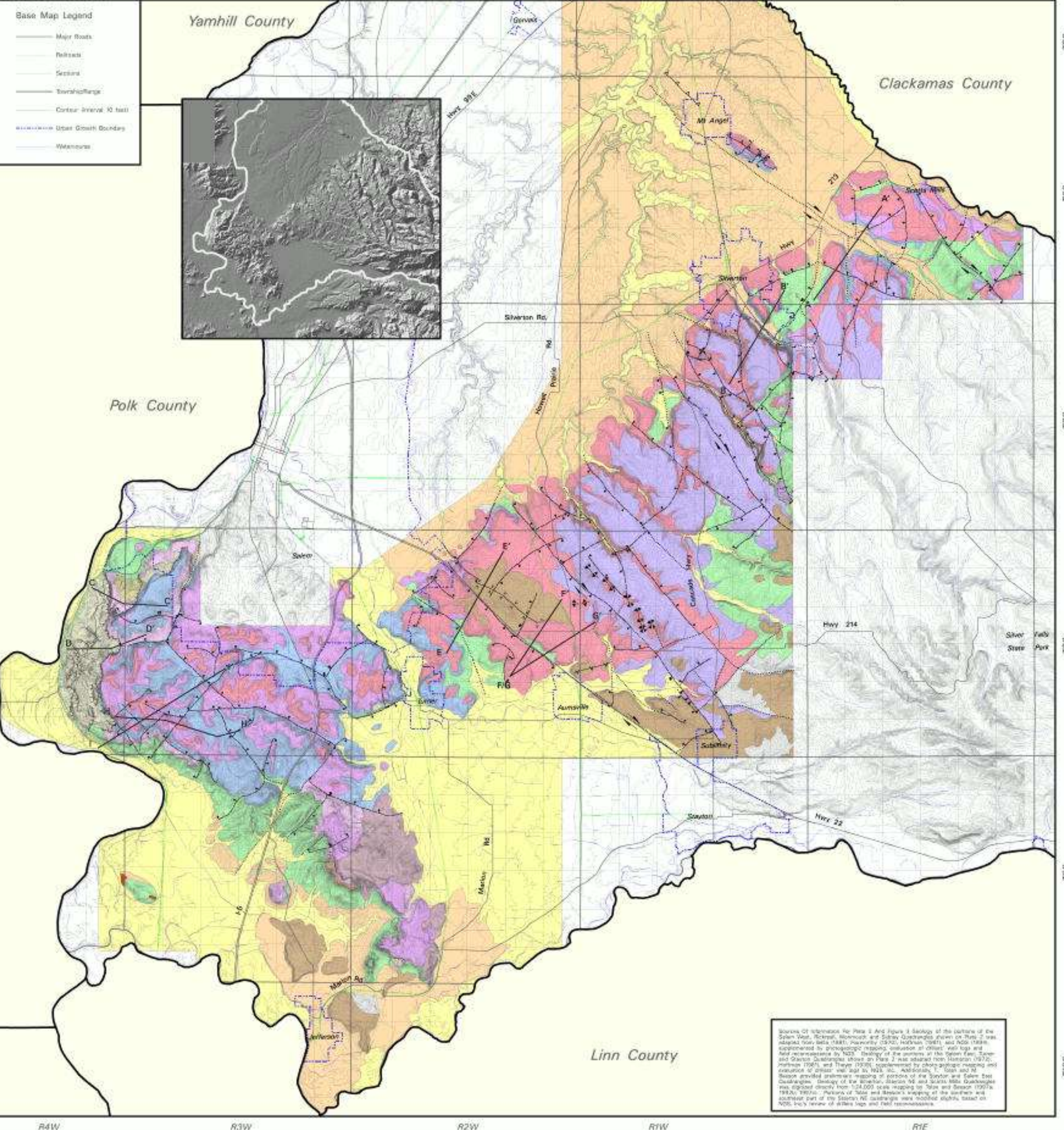
Unit	Number	Geologic Units Description
Qp		Quaternary Deposits Landscape alluvial deposits of Quaternary to Holocene age. Includes all alluvial sand and gravel deposits of the Willamette, Santiam, and Tualatin Rivers and their tributaries. Landscape alluvial deposits of Quaternary to Holocene age. Includes alluvial sand and gravel deposits of the Willamette, Santiam, and Tualatin Rivers and their tributaries.
Col		Columbia River Basalt Group Basaltic to andesitic volcanic rocks of the Columbia River Basalt Group. Includes the Columbia River Basalt Group (CRBG) and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Basaltic to andesitic volcanic rocks of the Columbia River Basalt Group. Includes the Columbia River Basalt Group (CRBG) and the Willamette, Santiam, and Tualatin Rivers and their tributaries.
Ne		Neogene Sedimentary Rocks Includes the Neogene Sedimentary Rocks (NSR) and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Includes the Neogene Sedimentary Rocks (NSR) and the Willamette, Santiam, and Tualatin Rivers and their tributaries.
T		Tertiary Includes the Tertiary rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Includes the Tertiary rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries.
P		Pre-Tertiary Includes the Pre-Tertiary rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Includes the Pre-Tertiary rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries.
Pg		Permian Includes the Permian rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Includes the Permian rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries.
Tn		Triassic Includes the Triassic rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Includes the Triassic rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries.
J		Jurassic Includes the Jurassic rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Includes the Jurassic rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries.
K		Cretaceous Includes the Cretaceous rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Includes the Cretaceous rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries.
T		Tertiary Includes the Tertiary rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Includes the Tertiary rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries.
P		Pre-Tertiary Includes the Pre-Tertiary rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Includes the Pre-Tertiary rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries.
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Tn		Triassic Includes the Triassic rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Includes the Triassic rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries.
J		Jurassic Includes the Jurassic rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Includes the Jurassic rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries.
K		Cretaceous Includes the Cretaceous rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries. Includes the Cretaceous rocks and the Willamette, Santiam, and Tualatin Rivers and their tributaries.

Symbol	Description
-----	Contact between geologic units
-----	Landscape area, hatch marks on bathymetric map
-----	Fault, approximate location, defined by strike-slip or normal fault, shown with strike-slip or normal fault symbols on both sides and relative vertical offset on the cross-section diagram
-----	Anticline, arrow shows direction of dip relative to fold axis
-----	Syncline, arrow shows direction of dip relative to fold axis
-----	Monocline (antiform), arrow shows direction of dip relative to fold axis
-----	Monocline (synform), arrow shows direction of dip relative to fold axis
-----	Location of Cross Sections shown on Figure 1

Refer to Geologic and other Maps for further information on the map. Refer to the legend for more information. Refer to the legend for more information.

Base Map Legend

- Main Roads
- Roads
- Sections
- Township/Range
- Contour Interval: 10 feet
- Urban Growth Boundary
- Watercourse



Source of information for Plate 2 and Figure 3 Geology of the portions of the Salem West, Rickman, Woodman and Silver Star quadrangles shown on Plate 2 was adapted from Wells (1981), Plym-Fortney (1972), Hoffman (1981), and Wells (1981), supplemented by hydrogeologic mapping (division of stream) well logs and field reconnaissance by NOD. Geology of the portions of the Salem East, Taylor and Grant quadrangles shown on Plate 2 was adapted from Hoffman (1972), Hoffman (1981), and Plym-Fortney (1972), supplemented by hydrogeologic mapping and reconnaissance of stream well logs by Wells, et al. Additionally, T. Soren and M. Soren provided preliminary mapping of portions of the Taylor and Salem East quadrangles. Geology of the Silver Star, Woodman and Grant West quadrangles was digitized directly from 1:24,000 scale mapping by Soren and Soren (1997). 1982 to 1997. Portions of Taylor and Soren's mapping of the Soren East and southern part of the Salem NE quadrangle were georeferenced directly to the NOD's review of well logs and field reconstructions.