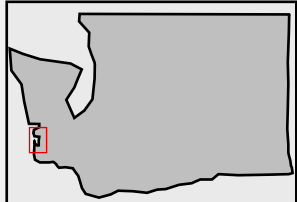


- | | | | | | |
|---|---------------------|---|----------------|---|-------------------------------------------------------------|
| ⊗ | bedrock | □ | Qal | □ | water |
| ● | gravel | □ | Qls | □ | alluvium |
| ⊙ | gravel sand | □ | Qt1 | □ | beach |
| ⊗ | gravel sand silt | □ | Qt2 | □ | Miocene Montesano Fm, sedimentary rocks |
| ⊗ | gravel sand xbedded | □ | TQss | □ | Miocene Columbia River Basalt Group, Saddle Mountain Basalt |
| ⊗ | gravel xbedded | □ | Qgs | □ | Miocene Columbia River Basalt Group, Grand Ronde Basalt |
| ▲ | qtz cobbles | □ | Qss | □ | Miocene Astoria Fm, sedimentary rocks |
| ◇ | sand | □ | Qsg | □ | Oligocene/Eocene Lincoln Creek Fm, sedimentary rocks |
| ◻ | sand gravel | □ | Qrt | □ | Eocene marine sedimentary rocks |
| ⊗ | sand gravel xbedded | □ | Qfcr | □ | Eocene tuffs and breccias |
| ⊗ | sand shells | □ | Qfch | □ | Eocene Crescent Fm, basalt and other mafic rocks |
| ◻ | sand silt | □ | likely bedrock | | |
| ◻ | sand silt gravel | ▨ | not accessed | | |
| ◻ | sand xbedded | | | | |
| ◁ | silt | | | | |
| ◁ | silt clay | | | | |
| ◁ | silt sand | | | | |
| ◁ | silt sand gravel | | | | |
| ★ | soil | | | | |
| ★ | soil sand | | | | |
| ★ | soil silt | | | | |



Map 3. Quaternary geology with labeled field station locations showing primary lithology, Willapa Bay.

1:24,000 mapping
over
1m DEM hillshade with
regional 1:100k geology

K. Stanton
2021