

Geologic Units in the Chehalis River and Westport 1:100,000 Quadrangles (See explanatory note at bottom of spreadsheet)

New Symbol	Old Symbol	Age	Lithology	Named Unit
Eib	Tib	Eocene	basic intrusive rocks, fine-grained	---
Eib	Tig	Eocene	basic intrusive rocks, coarse-grained	---
Em(1)	Tme	Eocene, middle	marine sedimentary rocks	---
Em(1c)	Tcrs	Eocene, lower to middle	marine sedimentary rocks	Crescent Formation, sedimentary rocks of
Em(2m)	Tmc	Eocene, middle to upper	marine sedimentary rocks	McIntosh Formation
En(c)	Tcz	Eocene, middle to upper	nearshore sedimentary rocks	Cowlitz Formation
En(sk)	Tsk	Eocene, middle to upper	nearshore sedimentary rocks	Skookumchuck Formation
Ev(c)	Tcr	Eocene, lower to middle	basalt flows and flow breccias, Crescent Formation	Crescent Formation
Evt(pe)	Tbt	Eocene	tuffs and tuff breccias	Pe Ell Volcanics Member, Cowlitz Formation
Mc(w)	Twk	Miocene, middle to upper	continental sedimentary deposits or rocks	Wilkes Formation
Mm(1a)	Tas	Miocene, lower to middle	marine sedimentary rocks	Astoria Formation
Mm(1al)	Tas(3)	Miocene, lower to middle	marine sedimentary rocks	Astoria Formation, Rotalia becki zone (Luisian?)
Mm(1ar)	Tas(2)	Miocene, lower to middle	marine sedimentary rocks	Astoria Formation, Baggina washingtonensis zone (Relizian)
Mm(1as)	Tas(1)	Miocene, lower to middle	marine sedimentary rocks	Astoria Formation, Siphogenerina kleinpelli zone (Saucebian)
Mm(2m)	Tmn	Miocene, middle to upper	marine sedimentary rocks	Montesano Formation
Mm(2ms)	Tmns	Miocene, middle to upper	marine sedimentary rocks	Montesano Formation, sandstone of (not separately described in text)
Mv(gN2)	Tgr	Miocene, middle	basalt flows (GrandeRondeBasalt, upper flows of norm.mag.pol.)	Grande Ronde Basalt, N2 (CRB)
Mv(sp)	Tsp	Miocene, middle	basalt flows (Pomona Member [CRB, SMB])	Pomona Member, Saddle Mountains Basalt
Mvi(sp)	Tisp	Miocene, middle	basalt flows, invasive (Pomona Member [CRB, SMB])	Pomona Member, Saddle Mountains Basalt
OEm(lc)	Tlc	Oligocene-Eocene	marine sedimentary rocks	Lincoln Creek Formation
OEm(lcs)	Tlcs	Oligocene-Eocene	marine sedimentary rocks	Lincoln Creek Formtion, basaltic sandstone member of
Qa	Qal	Quaternary	alluvium	---
Qapo(lh)	Qlh	Pleistocene	alpine glacial outwash, pre-Fraser	Logan Hill Formation
Qapo(wc)	Qwe	Pleistocene	alpine glacial outwash, pre-Fraser	Wedekind Creek Formation
Qb	Qsb	Quaternary	beach deposits	---
Qgm	Qdvm	Pleistocene	continental glacial moraines, Fraser-age	mostly Vashon Stade in western WA; unnamed in eastern WA
Qgo	Qov	Pleistocene	continental glacial outwash, Fraser-age	mostly Vashon Stade in western WA; unnamed in eastern WA
Qgog	Qovg	Pleistocene	continental glacial outwash, gravel, Fraser-age	mostly Vashon Stade in western WA; unnamed in eastern WA
Qgos	Qovs	Pleistocene	continental glacial outwash, sand, Fraser-age	mostly Vashon Stade in western WA; unnamed in eastern WA
Qgp	Qdp	Pleistocene	continental glacial drift, pre-Fraser	---
Qgt	Qdvt	Pleistocene	continental glacial till, Fraser-age	mostly Vashon Stade in western WA; unnamed in eastern WA
Qls	Qls	Quaternary	mass-wasting deposits, mostly landslides	---
Qoa	Qg	Quaternary	alluvium, older	---
QPLc	QTg	Pleistocene-Pliocene	continental sedimentary deposits or rocks	---
Qt	Qtr	Quaternary	terraced deposits	---
wtr	---	---	water	---

Washington Division of Geology and Earth Resources Open File Report 87-08, Geologic map of the Chehalis River and Westport quadrangles, Washington, compiled by Robert L. Logan, was released before the Division adopted a standard symbology for geologic units to be portrayed in 1:100,000, 1:250,000, and 1:500,000 geologic maps of Washington State. Therefore the geologic unit symbology on this map and in the accompanying text does not match that found on many later geologic maps that include the Chehalis River and Westport 1:100,000 quadrangle. This makes it more difficult for the user to, for example, compare geologic unit descriptions between this map and others that have different symbols for the same unit or to compile a description for a geologic unit that occurs in more than one 1:100,000 quadrangle. This table is included to make it easier to relate the units on this map with units on later maps that use the standard symbology. The column headed "Old Symbol" lists the units on this map alphabetically. The column headed "New Symbol" lists the same units expressed in the standard symbology.