

Long Beach Geologic Labels

<u>ptype</u>	<u>name</u>	<u>source_ptype</u>	<u>source_name</u>	<u>source_age</u>
af	Artificial Fill	af	artificial fill	late Holocene
Qls	Landslide Deposits; may include debris flows and older landslides	Qls	Landslide deposits	Holocene and Pleistocene
Qls	Landslide Deposits; may include debris flows and older landslides	Qls?	Landslide deposits	Holocene and Pleistocene
Qb	Beach Deposits	Qb	Beach deposits	California Geological
Qw	Alluvial Wash Deposits	Qw	Active channel and wash deposits	late Holocene
Qa	Alluvial Valley Deposits	Qa	Alluvial flood-plain deposits	late Holocene
Ql	Lacustrine, Playa and Estuarine (Paralic) Deposits	Qpe	Paralic estuarine deposits	late Holocene
Qe	Eolian and Dune Deposits	Qe	Eolian deposits	late Holocene
Qe	Eolian and Dune Deposits	Qe?	Eolian deposits	late Holocene
Qyf	Young Alluvial Fan Deposits	Qyf	Young alluvial fan and valley deposits, undivided	Holocene and late Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyf1	Young alluvial fan deposits, unit 1	Holocene and late Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyf2	Young alluvial fan deposits, unit 2	Holocene and late Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyfa	Young alluvial fan and valley deposits, sand (Note: Label was changed to Qvof in places for edge match with Santa Ana quadrangle)	Holocene and late Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyfc	Young alluvial fan and valley deposits, clay (Note: Label was changed to Qvof in places for edge match with Santa Ana quadrangle)	Holocene and late Pleistocene
Qyf	Young Alluvial Fan Deposits	Qyfs	Young alluvial fan and valley deposits, silt	Holocene and late Pleistocene
Qya	Young Alluvial Valley Deposits	Qya	Young alluvial flood-plain deposits	Holocene and Late Pleistocene
Qyl	Young Lacustrine, Playa and Estuarine (Paralic) Deposits	Qype	Young paralic estuarine deposits	Holocene and late Pleistocene
Qye	Young Eolian and Dune Deposits	Qye	Young eolian deposits	Holocene and late Pleistocene
Qof	Old Alluvial Fan Deposits	Qofa	Old alluvial fan and valley deposits, sand	late to middle Pleistocene
Qof	Old Alluvial Fan Deposits	Qofc	Old alluvial fan and valley deposits, clay	late to middle Pleistocene

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Qof	Old Alluvial Fan Deposits	Qofs	Old alluvial fan and valley deposits, silt	late to middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa	Old alluvial flood-plain deposits, undivided	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop	Old paralic deposits, undivided	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qopa	Old paralic deposits, sand	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qopc	Old paralic deposits, clay	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qops	Old paralic deposits, silt	late to middle Pleistocene
Qoe	Old Eolian and Dune Deposits	Qoe	Old eolian deposits	late to middle Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qlh	La Habra Formation, undivided; sandstone, conglomerate and siltstone	late Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qom?	Old marine deposits, undivided	late to middle Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qsp	San Pedro Formation, undivided; sand and silty sand	early Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qspl	Lomita Marl Member; marl, calcareous sand and gravel	early Pleistocene
Qsh	Fine-grained formations of Pleistocene age and younger	Qi	Inglewood Formation, siltstone	early Pleistocene
Qsh	Fine-grained formations of Pleistocene age and younger	Qspt	Timms Point Silt Member	early Pleistocene
Tss	Coarse-grained Tertiary age formations	Tfl	Fernando Formation, lower member, silty sandstone	Pliocene and Pleistocene
Tss	Coarse-grained Tertiary age formations	Tflc	Fernando Formation, lower member, conglomerate	Pliocene and Pleistocene
Tss	Coarse-grained Tertiary age formations	Tfu	Fernando Formation, upper member, silty and pebbly sandstone	Pliocene and Pleistocene
Tss	Coarse-grained Tertiary age formations	Tps	Puente Formation, Soquel Member, sandstone and siltstone,	late Miocene
Tss	Coarse-grained Tertiary age formations	Tpsc	Puente Formation, Sycamore Canyon Member, sandstone with interbedded pebble-cobble conglomerate and sandy siltstone	late Miocene

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Tss	Coarse-grained Tertiary age formations	Tpscc	Puente Formation, Sycamore Canyon Member, pebble-cobble conglomerate and pebbly sandstone	late Miocene
Tsh	Fine-grained Tertiary age formations	Tma	Monterey Formation, Altamira Shale Member	middle and late Miocene
Tsh	Fine-grained Tertiary age formations	Tmm	Monterey Formation, Malaga Mudstone Member	middle and late Miocene
Tsh	Fine-grained Tertiary age formations	Tmvd	Monterey Formation, Valmonte Diatomite Member	middle and late Miocene
Tsh	Fine-grained Tertiary age formations	Tplv	Puente Formation, La Vida Member, siltstone	late Miocene
Tsh	Fine-grained Tertiary age formations	Tpy	Puente Formation, Yorba Member, diatomaceous siltstone	late Miocene
Tv	Tertiary age formations of volcanic origin	Tmv	Volcanic rocks within the Monterey Formation	middle Miocene
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	mcs	Catalina Schist	pre-Late Cretaceous