

# Oceanside Geologic Labels

ptype	name	source_ptype	source_name	source_age
af	Artificial Fill	af	Artificial fill	late Holocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qoc	Old colluvial deposits	late to middle Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qvoc	Very old colluvial deposits, undivided	middle to early Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qyc	Young colluvial deposits	Holocene and late Pleistocene
Qsu	Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages	Qyc, depression	Depression in young colluvial deposits	Holocene and late Pleistocene
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, queried	Holocene and Pleistocene
Qb	Beach Deposits	Qmb	Marine beach deposits	late Holocene
Qw	Alluvial Wash Deposits	Qw	Wash deposits	late Holocene
Qw	Alluvial Wash Deposits	Qw, depression	Depression in wash deposits	late Holocene
Qf	Alluvial Fan Deposits	Qf	Alluvial fan deposits	late Holocene
Qa	Alluvial Valley Deposits	Qa	Alluvial flood-plain deposits	late Holocene
Qa	Alluvial Valley Deposits	Qa, depression	Depression in alluvial flood-plain deposits	late Holocene
Ql	Lacustrine, Playa and Estuarine (Paralic) Deposits	Qpe	Paralic estuarine deposits	late Holocene
Qyf	Young Alluvial Fan Deposits	Qyf	Young alluvial fan deposits	Holocene and late Pleistocene
Qya	Young Alluvial Valley Deposits	Qya	Young alluvial flood-plain deposits	Holocene and late Pleistocene
Qya	Young Alluvial Valley Deposits	Qyv	Young alluvial valley deposits	Holocene and late Pleistocene
Qof	Old Alluvial Fan Deposits	Qof	Old alluvial fan deposits, undivided	late to middle Pleistocene
Qof	Old Alluvial Fan Deposits	Qof1	Old alluvial fan deposits, Unit 1	late to middle Pleistocene

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Qof	Old Alluvial Fan Deposits	Qof2	Old alluvial fan deposits, Unit 2	late to middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa	Old alluvial flood-plain deposits, undivided	late to middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa1-2	Old alluvial flood-plain deposits, Units 1-2	late to middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa2-6	Old alluvial flood-plain deposits, Units 2-6	late to middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa5	Old alluvial flood-plain deposits, Unit 5	late to middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa6	Old alluvial flood-plain deposits, Unit 6	late to middle Pleistocene
Qoa	Old Alluvial Valley Deposits	Qoa7	Old alluvial flood-plain deposits, Unit 7	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	Qop1	Old paralic deposits, Unit 1	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop1-2	Old paralic deposits, Units 1-2	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop1-Qvop13	Old paralic deposits, Unit 1 and very old paralic deposits, Unit 13	Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop2-4	Old paralic deposits, Units 2-4	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop2-6	Old paralic deposits, Units 2-6	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop3	Old paralic deposits, Unit 3	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop4	Old paralic deposits, Unit 4	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop4-6	Old paralic deposits, Units 4-6	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop6	Old paralic deposits, Unit 6	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop6-7	Old paralic deposits, Units 6-7	late to middle Pleistocene
Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop7	Old paralic deposits, Unit 7	late to middle Pleistocene

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Qol	Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qop7-8	Old paralic deposits, Units 7-8	late to middle Pleistocene
Qvof	Very Old Alluvial Fan Deposits	Qvof	Very old alluvial fan deposits	middle to early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa	Very old alluvial flood-plain deposits, undivided	middle to early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa11	Very old alluvial flood-plain deposits, Unit 11	middle to early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa12	Very old alluvial flood-plain deposits, Unit 12	middle to early Pleistocene
Qvoa	Very Old Alluvial Valley Deposits	Qvoa13	Very old alluvial flood-plain deposits, Unit 13	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop	Very old paralic deposits, undivided	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop1	Very old paralic deposits, Unit 1	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop10	Very old paralic deposits, Unit 10	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop10-11	Very old paralic deposits, Units 10-11	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop10-13	Very old paralic deposits, Units 10-13	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop11	Very old paralic deposits, Unit 11	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop11-12	Very old paralic deposits, Units 11-12	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop12	Very old paralic deposits, Unit 12	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop13	Very old paralic deposits, Unit 13	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop2	Very old paralic deposits, Unit 2	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop2-3	Very old paralic deposits, Units 2-3	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop3	Very old paralic deposits, Unit 3	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop4	Very old paralic deposits, Unit 4	middle to early Pleistocene

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Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop5	Very old paralic deposits, Unit 5	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop7	Very old paralic deposits, Unit 7	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop7-8	Very old paralic deposits, Units 7-8	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop8	Very old paralic deposits, Unit 8	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop8-9	Very old paralic deposits, Units 8-9	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop9	Very old paralic deposits, Unit 9	middle to early Pleistocene
Qvol	Very Old Lacustrine, Playa and Estuarine (Paralic) Deposits	Qvop9-10	Very old paralic deposits, Units 9-10	middle to early Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qd	Dripping Springs Formation, fanglomerate	early Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qpf	Pauba Formation, fanglomerate facies	early Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qps	Pauba Formation, sandstone facies	early Pleistocene
Qss	Coarse-grained formations of Pleistocene age and younger	Qps, depression	Depression in Pauba Formation, sandstone facies	early Pleistocene
Tss	Coarse-grained Tertiary age formations	Tct	Capistrano Formation, turbidite facies	early Pliocene and late Miocene
Tss	Coarse-grained Tertiary age formations	Tf	Friars Formation, nonmarine and lagoonal sandstone and claystone	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tmv	Mission Valley Formation, marine and nonmarine sandstone	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tn	Niguel Formation, marine sandstone interbedded with sandy siltstone	late Pliocene
Tss	Coarse-grained Tertiary age formations	Trm	Sandstone of Redonda Mesa, coarse-grained sandstone	Paleogene
Tss	Coarse-grained Tertiary age formations	Tsa	Santiago Formation, sandstone, conglomerate and claystone	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tsi	Silverado Formation, sandstone, siltstone, shale and conglomerate	Paleocene
Tss	Coarse-grained Tertiary age formations	Tso	San Onofre Breccia, breccia facies	middle Miocene
Tss	Coarse-grained Tertiary age formations	Tsoos	San Onofre Breccia, sandstone facies	middle Miocene

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Tss	Coarse-grained Tertiary age formations	Tst	Stadium Conglomerate, cobble conglomerate with coarse-grained sandstone matrix	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tsv	Sespe and Vaqueros Formations, undivided	early Miocene, Oligocene, and late Eocene
Tss	Coarse-grained Tertiary age formations	Tt	Torrey Sandstone, arkosic sandstone	middle Eocene
Tss	Coarse-grained Tertiary age formations	Tta	Temecula Arkose, finer and coarser grained interbeds common	late Pliocene
Tss	Coarse-grained Tertiary age formations	Tta, depression	Depression in Temecula Arkose	late Pliocene
Tss	Coarse-grained Tertiary age formations	Tto	Topanga Formation, tuffaceous sandstone and siltstone	middle Miocene
Tsh	Fine-grained Tertiary age formations	Tcs	Capistrano Formation, siltstone facies	early Pliocene and late Miocene
Tsh	Fine-grained Tertiary age formations	Td	Delmar Formation, claystone interbedded with sandstone	middle Eocene
Tsh	Fine-grained Tertiary age formations	Tm	Monterey Formation, interbedded siltstone and sandstone	middle and late Miocene
Tsh	Fine-grained Tertiary age formations	Tsm	San Mateo Formation, marine and paralic siltstone, sandstone and conglomerate	early Pliocene and late Miocene
Tv	Tertiary age formations of volcanic origin	Tda	Dacite stock	Miocene
Tv	Tertiary age formations of volcanic origin	Tv	Volcanic rocks, undivided	Miocene
Tv	Tertiary age formations of volcanic origin	Tvsr	Santa Rosa basalt of Mann (1955)	late Miocene
Tv	Tertiary age formations of volcanic origin	Tvt	Basalt of Temecula area	Miocene
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kl	Lusardi Formation, cobble and boulder conglomerate with thin lenses of sandstone	Upper Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Ktr	Trabuco Formation, nonmarine conglomerate with sandstone and siltstone interbeds	Upper Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kwp	Williams Formation, Pleasant Sandstone Member	Upper Cretaceous
Kss	Coarse-grained Cretaceous age formations of sedimentary origin	Kwsr	Williams Formation, Schultz Ranch Sandstone Member	Upper Cretaceous
Ksh	Fine-grained Cretaceous age formations of sedimentary origin	Kp	Point Loma Formation, fine-grained sandstone and siltstone	Upper Cretaceous
Kv	Cretaceous age formations of volcanic origin	Kvsp	Santiago Peak Volcanics	Cretaceous
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Mzd	Metavolcanic dikes	Mesozoic

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pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Mzg	Metagranitic rocks	Mesozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Mzq	Quartzite and quartz conglomerate	Mesozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Mzs	Schist with minor amphibolite and marble	Mesozoic
pKm	Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin	Mzu	Metasedimentary and metavolcanic rocks, undivided	Mesozoic
gr	Granitic and other intrusive crystalline rocks of all ages	Kat	Gabbro of the Agua Tibia Mountains	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kbm	Granodiorite of Burnt Mountain	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kbp	Granite of Bottle Peak	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kcc	Tonalite of Couser Canyon	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kcg	Tonalite of Cole Grade	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kd	Diorite, undivided	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kdl	Granite of Dixon Lake	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kg	Granite, undivided	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgb	Gabbro, undivided	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgbf	Gabbro, undivided within the Elsinore Fault Zone	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgd	Granodiorite, undivided	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgdf	Granodiorite, undivided within the Elsinore Fault Zone	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kgdfg	Granodiorite, undivided	mid-Cretaceous

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gr	Granitic and other intrusive crystalline rocks of all ages	Kgp	Granite pegmatite dike	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Khg	Heterogeneous granitic rocks	Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Ki	Granodiorite of Indian Mountain	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kis	Granite of Indian Springs	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kjd	Granodiorite of Jesmond Dean	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Klh	Leucogranodiorite of Lake Hodges	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Km	Granodiorite of Mountain Meadows	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kmg	Monzogranite, undivided	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kmm	Monzogranite of Merriam Mountain	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kpa	Granodiorite of Pala	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kqbd	Quartz-bearing diorite, undivided	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kr	Granodiorite of Rainbow	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Krm	Quartz-bearing diorite of Red Mountain	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Krr	Granodiorite of Rimrock	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kt	Tonalite, undivided	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kvc	Monzogranite of Valley Center	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kwm	Granodiorite of Woodson Mountain	mid-Cretaceous
gr	Granitic and other intrusive crystalline rocks of all ages	Kwmt	Gabbro of Weaver Mountain	mid-Cretaceous