

Mesquite Lake Geologic Labels

| ptype | name | source_ptype | source_name | source_age |
|--------------|---|---------------------|--|--|
| af | Artificial Fill | ml | Made land or artificial fill | latest Holocene |
| af | Artificial Fill | ml/Qia | Made land or artificial fill overlies intermediate alluvial fan deposit | latest Holocene/late and middle Pleistocene |
| af | Artificial Fill | ml/Qya | Made land or artificial fill overlies young alluvial fan deposit | latest Holocene/Holocene and latest Pleistocene |
| Qsu | Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages | Qags | Active groundwater discharge deposits; predominantly sand and silt | latest Holocene |
| Qsu | Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages | Qags+Qig | Active groundwater discharge deposits and intermediate groundwater discharge deposits; intermixed | latest Holocene to middle Pleistocene |
| Qsu | Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages | Qig | Intermediate groundwater discharge deposits; silt and fine sand in former zones of groundwater discharge | late and middle Pleistocene |
| Qsu | Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages | Qimc | Intermediate colluvial deposits; thicker than 2 meters; rocky and poorly sorted mixed detritus | late and middle Pleistocene |
| Qsu | Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages | Qimc+Qymc | Intermediate colluvial deposits and young colluvial deposits; intermixed | Holocene to middle Pleistocene |
| Qsu | Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages | Qog/ca+sl | Old groundwater discharge deposits overlie carbonate and siliciclastic rocks | middle and early Pleistocene/Pliocene to early Proterozoic |
| Qsu | Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages | Qog/sl | Old groundwater discharge deposits overlie siliciclastic rocks | middle and early Pleistocene/Pliocene to early Proterozoic |
| Qsu | Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages | Qomc | Older colluvial deposits; poorly sorted, mixed boulders to silt and clay; surfaces typically incised | middle and early Pleistocene |
| Qsu | Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages | Qygs | Young groundwater discharge deposits; silt and fine sand in zones of former groundwater discharge; loose to compact | Holocene and latest Pleistocene |
| Qsu | Undifferentiated Surficial Deposits; includes colluvium, slope wash, talus deposits, and other surface deposits of all ages | Qymc | Young colluvial deposits; mixed, poorly sorted detritus; boulders to silt and clay; thicker than 2 meters; weak to moderate soil development | Holocene and latest Pleistocene |

| ptype | name | source_ptype | source_name | source_age |
|--------------|---|---------------------|---|--|
| Qls | Landslide Deposits; may include debris flows and older landslides | Qiad | Intermediate alluvial fan composed of debris flow deposits; bouldery deposits with sand and silt matrix | late and middle Pleistocene |
| Qls | Landslide Deposits; may include debris flows and older landslides | Qiad+Qia | Intermediate alluvial fan composed of debris flow deposits and intermediate alluvial fan deposits; intermixed | late and middle Pleistocene |
| Qls | Landslide Deposits; may include debris flows and older landslides | Qiad+Qyad | Intermediate alluvial fan composed of debris flow deposits and young alluvial fan deposits composed of debris flow deposits; intermixed | Holocene to middle Pleistocene |
| Qls | Landslide Deposits; may include debris flows and older landslides | Qiaq+Qyad | Intermediate alluvial fan deposits composed of grus and young alluvial fan deposits composed of debris flow deposits; intermixed | Holocene to middle Pleistocene |
| Qls | Landslide Deposits; may include debris flows and older landslides | Qoa+Qiad | Old alluvial fan deposits and intermediate alluvial fan composed of debris flow deposits; intermixed | late to early Pleistocene |
| Qls | Landslide Deposits; may include debris flows and older landslides | Qoad | Old alluvial fan composed of debris flow deposits; poorly sorted bouldery deposits with sand and silt matrix; dominated by debris flows | middle and early Pleistocene |
| Qls | Landslide Deposits; may include debris flows and older landslides | Qyad/Qia | Young alluvial fan deposits composed of debris flow deposits overlies intermediate alluvial fan deposits | Holocene and latest Pleistocene/late to middle Pleistocene |
| Qw | Alluvial Wash Deposits | Qaw | Active wash deposits; loose sand and gravel deposited within last few decades; sediment transport on semi-annual basis | latest Holocene |
| Qw | Alluvial Wash Deposits | Qaw+Qya | Active wash deposits and young alluvial fan deposits; intermixed | latest Holocene to latest Pleistocene |
| Qw | Alluvial Wash Deposits | Qaw+Qydf | Active wash deposits and young debris flow; intermixed | latest Holocene to latest Pleistocene |
| Qw | Alluvial Wash Deposits | Qawg+Qyag | Active wash deposits composed of grus and young wash deposits composed grus; intermixed | latest Holocene to latest Pleistocene |
| Qw | Alluvial Wash Deposits | Qya+Qaw | Young alluvial fan deposits and active wash deposits; intermixed | latest Holocene to latest Pleistocene |
| Qw | Alluvial Wash Deposits | Qyad+Qaw | Young alluvial fan deposits composed of debris flow deposits and active wash deposits; intermixed | latest Holocene to latest Pleistocene |

| ptype | name | source_ptype | source_name | source_age |
|--------------|--------------------------|---------------------|---|---|
| Qw | Alluvial Wash Deposits | Qyag+Qaw | Young alluvial fan deposits composed of grus and active wash deposits; intermixed | latest Holocene to middle Pleistocene |
| Qw | Alluvial Wash Deposits | Qyag+Qawg | Young alluvial fan deposits composed of grus and active wash deposits composed of grus; intermixed | latest Holocene to latest Pleistocene |
| Qf | Alluvial Fan Deposits | Qaa | Active alluvial fan deposits; sediments deposited within last few decades | latest Holocene |
| Qf | Alluvial Fan Deposits | Qaa/Qipw | Active alluvial fan deposits overlie intermediate wet playa deposits | latest Holocene/late and middle Pleistocene |
| Qf | Alluvial Fan Deposits | Qaa+Qia | Active alluvial fan deposits and intermediate alluvial fan deposits; intermixed | latest Holocene to middle Pleistocene |
| Qf | Alluvial Fan Deposits | Qaa+Qya | Active alluvial fan deposits and young alluvial fan deposits; intermixed | latest Holocene to latest Pleistocene |
| Qf | Alluvial Fan Deposits | Qaa+Qyad | Active alluvial fan deposits and young alluvial fan composed of debris flow deposits; intermixed | latest Holocene to latest Pleistocene |
| Qf | Alluvial Fan Deposits | Qaa+Qyed/Qipw | Active alluvial fan deposits and young eolian sand dune deposits overlie intermediate wet playa deposits | latest Holocene and latest Pleistocene/late and middle Pleistocene |
| Qf | Alluvial Fan Deposits | Qaag+Qyag | Active alluvial fan deposits composed of grus and young alluvial fan deposits composed of grus; intermixed | latest Holocene to latest Pleistocene |
| Qf | Alluvial Fan Deposits | Qia+Qaa | Intermediate alluvial fan deposits and active alluvial fan deposits; intermixed | latest Holocene to middle Pleistocene |
| Qf | Alluvial Fan Deposits | Qya+Qaa | Young alluvial fan deposits and active alluvial fan deposits; intermixed | latest Holocene to latest Pleistocene |
| Qf | Alluvial Fan Deposits | Qya+Qaa/Qpi-sl | Young alluvial fan deposits and active alluvial fan deposits overlie carbonate and siliciclastic rocks | latest Holocene to latest Pleistocene |
| Qf | Alluvial Fan Deposits | Qyae/Qya+Qaa | Young mixed alluvial and eolian deposits overlie young alluvial fan deposits and active alluvial fan deposits | Holocene and latest Pleistocene/latest Holocene to middle Pleistocene |
| Qf | Alluvial Fan Deposits | Qyag+Qaag | Young alluvial fan deposits composed of grus and active alluvial fan deposits composed of grus; intermixed | latest Holocene to middle Pleistocene |
| Qa | Alluvial Valley Deposits | Qaae/Qya | Active mixed alluvial and eolian sand deposits overlie young alluvial fan deposits | latest Holocene/Holocene and latest Pleistocene |

| ptype | name | source_ptype | source_name | source_age |
|--------------|--|---------------------|---|---|
| Qa | Alluvial Valley Deposits | Qaae/Qyed | Active mixed alluvial and eolian sand deposits overlie young eolian sand dune deposits | latest Holocene/Holocene and latest Pleistocene |
| Qa | Alluvial Valley Deposits | Qav | Active valley-axis deposits; fine gravel, sand, silt and clay; loose and unconsolidated; relatively smooth surfaces | latest Holocene |
| Qa | Alluvial Valley Deposits | Qav+Qye | Active valley-axis deposits and young eolian sand deposits; intermixed | latest Holocene to latest Pleistocene |
| Qa | Alluvial Valley Deposits | Qav+Qyv | Active valley-axis deposits and young valley-axis deposits; intermixed | latest Holocene to latest Pleistocene |
| Qa | Alluvial Valley Deposits | Qya+Qaae | Young alluvial fan deposits and active mixed alluvial and eolian sand deposits; intermixed | latest Holocene to latest Pleistocene |
| Qa | Alluvial Valley Deposits | Qyv+Qav | Young valley-axis deposits and active valley-axis deposits; intermixed | latest Holocene to latest Pleistocene |
| Ql | Lacustrine, Playa and Estuarine (Paralic) Deposits | Qap | Active playa deposits; silt, clay and sand; predominantly dry playas actively receiving water and sediment from surrounding areas | latest Holocene |
| Ql | Lacustrine, Playa and Estuarine (Paralic) Deposits | Qapf | Active playa fringe deposits; loose complexly mixed materials forming halo around playas | latest Holocene |
| Ql | Lacustrine, Playa and Estuarine (Paralic) Deposits | Qapf+Qypf | Active playa fringe deposits and young playa fringe deposits; intermixed | latest Holocene to latest Pleistocene |
| Ql | Lacustrine, Playa and Estuarine (Paralic) Deposits | Qaps | Active playa sandy facies deposits; sandy facies near margin of playas where alluvial sediments interfinger with playa sediments | latest Holocene |
| Ql | Lacustrine, Playa and Estuarine (Paralic) Deposits | Qapw | Active wet playa deposits; groundwater generates gypsum and salt deposits | latest Holocene |
| Ql | Lacustrine, Playa and Estuarine (Paralic) Deposits | Qypf+Qapf | Young playa fringe deposits and active playa fringe deposits; intermixed | latest Holocene to latest Pleistocene |
| Qe | Eolian and Dune Deposits | Qae | Active eolian sand deposits; loose and subject to migration; no soil development | latest Holocene |
| Qe | Eolian and Dune Deposits | Qae/ca | Active eolian sand deposits overlie carbonate rocks (marble, dolomite, limestone) | latest Holocene/Pliocene to early Proterozoic |
| Qe | Eolian and Dune Deposits | Qae/Qya | Active eolian sand deposits overlie young alluvial fan deposits | latest Holocene/Holocene and latest Pleistocene |
| Qe | Eolian and Dune Deposits | Qae+Qyed | Active eolian sand deposits and young eolian sand dune deposits; intermixed | latest Holocene to latest Pleistocene |

| ptype | name | source_ptype | source_name | source_age |
|--------------|-----------------------------|---------------------|---|---|
| Qe | Eolian and Dune Deposits | Qaed | Active eolian sand dune deposits; loose and subject to migration but preserves dune morphology; no soil development | latest Holocene |
| Qe | Eolian and Dune Deposits | Qaer | Active eolian sand ramp deposits; climbing and falling deposits; generally deposited over inclined bedrock | latest Holocene |
| Qe | Eolian and Dune Deposits | Qaer/mv | Active eolian sand ramp deposits overlie mafic volcanic rocks (dacite, andesite, basalt) | latest Holocene/Pliocene to early Proterozoic |
| Qe | Eolian and Dune Deposits | Qiag+Qae | Intermediate alluvial fan deposits composed of grus and active eolian sand deposits; intermixed | latest Holocene to middle Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qia+Qya | Intermediate alluvial fan deposits and young alluvial fan deposits; intermixed | Holocene to early Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qia+Qya/ca+sl | Intermediate alluvial fan deposits and young alluvial fan deposits overlie carbonate rocks and siliciclastic rocks | late and middle Pleistocene/Pliocene to early Proterozoic |
| Qyf | Young Alluvial Fan Deposits | Qia+Qyag | Intermediate alluvial fan deposits and young alluvial fan deposits composed of grus; intermixed | Holocene to early Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qia+Qyao | Intermediate alluvial fan deposits and older young alluvial fan deposits; intermixed | Holocene to early Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qia+Qyaog | Intermediate alluvial fan deposits and older young alluvial fan deposits composed of grus; intermixed | Holocene to early Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qiag+Qyag | Intermediate alluvial fan deposits composed of grus and young alluvial fan deposits composed of grus; intermixed | Holocene to middle Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qya | Young alluvial fan deposits; moderately to poorly sorted sand and silt, sandy gravel; abandoned surfaces receive material infrequently; little or no soil development | Holocene and latest Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qya/ca | Young alluvial fan deposits overlie carbonate rocks | Holocene and latest Pleistocene/Pliocene to early Proterozoic |
| Qyf | Young Alluvial Fan Deposits | Qya/pc | Young alluvial fan deposits overlie partially consolidated sedimentary rocks | Holocene and latest Pleistocene/Pliocene to early Proterozoic |

| ptype | name | source_ptype | source_name | source_age |
|--------------|-----------------------------|---------------------|---|---|
| Qyf | Young Alluvial Fan Deposits | Qya/Qia | Young alluvial fan deposits overlie intermediate alluvial fan deposits | Holocene and latest Pleistocene/late to middle Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qya/Qig | Young alluvial fan deposits overlie intermediate groundwater discharge deposits | Holocene and latest Pleistocene/late to middle Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qya/Qil | Young alluvial fan deposits overlie intermediate lacustrine deposits | Holocene and latest Pleistocene/late to middle Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qya/Qipw | Young alluvial fan deposits overlie intermediate wet playa deposits | Holocene and latest Pleistocene/late to middle Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qya/Qov | Young alluvial fan deposits overlie older valley-axis deposits | Holocene and latest Pleistocene/early Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qya+Qia | Young alluvial fan deposits and intermediate alluvial fan deposits; intermixed | Holocene to middle Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qya+Qia/ca+sl | Young alluvial fan deposits and intermediate alluvial fan deposits overlie carbonate and siliciclastic rocks | Holocene to middle Pleistocene/Pliocene to early Proterozoic |
| Qyf | Young Alluvial Fan Deposits | Qya+Qoa | Young alluvial fan deposits and older alluvial fan deposits; intermixed | Holocene to early Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qya+Qyad | Young alluvial fan deposits and young alluvial fan deposits composed of debris flow deposits; intermixed | Holocene to latest Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qya+Qyao | Young alluvial fan deposits and older young alluvial fan deposits; intermixed | Holocene to latest Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qyag | Young alluvial fan deposits composed of grus; clasts from granitic sources range in size from coarse sand to gravel | Holocene and latest Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qyag/fp | Young alluvial fan deposits composed of grus overlie felsic plutonic rocks | Holocene and latest Pleistocene/Pliocene to early Proterozoic |
| Qyf | Young Alluvial Fan Deposits | Qyag/Qia | Young alluvial fan deposits composed of grus overlie intermediate alluvial fan deposits | Holocene and latest Pleistocene/late and middle Pleistocene |

| ptype | name | source_ptype | source_name | source_age |
|--------------|--------------------------------|---------------------|---|---|
| Qyf | Young Alluvial Fan Deposits | Qyag+Qia | Young alluvial fan deposits composed of grus and intermediate alluvial fan deposits; intermixed | Holocene to middle Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qyag+Qia | Young alluvial fan deposits composed of grus and intermediate alluvial fan deposits composed of grus; intermixed | Holocene to middle Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qyag+Qyad | Young alluvial fan deposits composed of grus and young alluvial fan deposits composed of debris flow deposits; intermixed | Holocene and latest Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qyag+Qyae | Young alluvial fan deposits composed of grus and young mixed alluvial and eolian sand deposits; intermixed | Holocene and latest Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qyag+Qyaog | Young alluvial fan deposits composed of grus and older young alluvial fan deposits composed of grus; intermixed | Holocene to latest Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qyag+Qypf | Young alluvial fan deposits composed of grus and young playa fringe deposits; intermixed | Holocene to latest Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qyao+Qya | Older young alluvial fan deposits and young alluvial fan deposits; intermixed | Holocene to latest Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qyaog+Qyae | Older young alluvial fan deposits composed of grus and young alluvial and eolian sand deposits; intermixed | Holocene to latest Pleistocene |
| Qyf | Young Alluvial Fan Deposits | Qyaog+Qyag | Older young alluvial fan deposits composed of grus and young alluvial fan deposits composed of grus; intermixed | Holocene to latest Pleistocene |
| Qya | Young Alluvial Valley Deposits | Qiae+Qyae | Intermediate mixed alluvial and eolian sand deposits and young mixed alluvial and eolian sand deposits; intermixed | Holocene to middle Pleistocene |
| Qya | Young Alluvial Valley Deposits | Qyae | Young mixed alluvial and eolian deposits; mixed deposits generally inactive | Holocene and latest Pleistocene |
| Qya | Young Alluvial Valley Deposits | Qyae/Qia | Young mixed alluvial and eolian deposits overlie intermediate alluvial fan deposits | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qya | Young Alluvial Valley Deposits | Qyae/Qig | Young mixed alluvial and eolian deposits overlie intermediate groundwater discharge deposits | Holocene and latest Pleistocene/late and middle Pleistocene |

| ptype | name | source_ptype | source_name | source_age |
|--------------|--|---------------------|---|---|
| Qya | Young Alluvial Valley Deposits | Qyae/Qipw | Young mixed alluvial and eolian deposits overlie intermediate wet playa deposits | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qya | Young Alluvial Valley Deposits | Qyae/Qiv | Young mixed alluvial and eolian deposits overlie intermediate valley-axis deposits | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qya | Young Alluvial Valley Deposits | Qyae+Qia | Young mixed alluvial and eolian deposits and intermediate alluvial fan deposits; intermixed | Holocene to middle Pleistocene |
| Qya | Young Alluvial Valley Deposits | Qyae+Qiae | Young mixed alluvial and eolian deposits and intermediate alluvial and eolian sand deposits; intermixed | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qya | Young Alluvial Valley Deposits | Qyae+Qya | Young mixed alluvial and eolian deposits and young alluvial fan deposits; intermixed | Holocene to middle Pleistocene |
| Qya | Young Alluvial Valley Deposits | Qyv | Young valley-axis deposits; fine-grained deposits in largely inactive valley axis locations | Holocene and latest Pleistocene |
| Qya | Young Alluvial Valley Deposits | Qyv/Qiag | Young valley-axis deposits overlie intermediate alluvial fan deposits composed of grus | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qya | Young Alluvial Valley Deposits | Qyv+Qiv | Young valley-axis deposits and intermediate valley-axis deposits; intermixed | Holocene to middle Pleistocene |
| Qyl | Young Lacustrine, Playa and Estuarine (Paralic) Deposits | Qypf | Young playa fringe deposits; loose and unconsolidated; mixed materials form halo around playas | Holocene and latest Pleistocene |
| Qyl | Young Lacustrine, Playa and Estuarine (Paralic) Deposits | Qypf/Qipw | Young playa fringe deposits overlie intermediate wet playa deposits | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qyl | Young Lacustrine, Playa and Estuarine (Paralic) Deposits | Qypw | Young wet playa deposit; fine-grained sand and silt to sandy clay loam; irregular weakly cemented crusted surface | Holocene and latest Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qig+Qye | Intermediate groundwater discharge deposits and young eolian sand deposits; intermixed | Holocene to middle Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qimc+Qye | Intermediate colluvial deposits and young eolian sand deposits; intermixed | Holocene to middle Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qomc+Qye | Older colluvial deposits and young eolian sand deposits; intermixed | Holocene to early Pleistocene |

| ptype | name | source_ptype | source_name | source_age |
|--------------|--------------------------------|---------------------|--|---|
| Qye | Young Eolian and Dune Deposits | Qye | Young eolian sand deposits; well-sorted sand deposits; generally inactive, loose | Holocene and latest Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qye/pc | Young eolian sand deposits overlie partially consolidated sedimentary deposits | Holocene and latest Pleistocene/Pliocene to early Proterozoic |
| Qye | Young Eolian and Dune Deposits | Qye/Qia | Young eolian sand deposits overlie intermediate alluvial fan deposits | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qye/Qiag | Young eolian sand deposits overlie intermediate alluvial fan deposits composed of grus | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qye/Qie | Young eolian sand deposits overlie intermediate eolian sand deposits | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qye/Qie/pc | Young eolian sand deposits overlie intermediate eolian sand deposits overlie partially consolidated sedimentary deposits | Holocene and latest Pleistocene/Pliocene to early Proterozoic |
| Qye | Young Eolian and Dune Deposits | Qye/Qig | Young eolian sand deposits overlie intermediate groundwater discharge deposits | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qye/Qiv | Young eolian sand deposits overlie intermediate valley-axis deposits | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qye/Qoa | Young eolian sand deposits overlie old alluvial fan deposits | Holocene and latest Pleistocene/middle and early Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qye/Qoe | Young eolian sand deposits overlie old eolian sand deposits | Holocene and latest Pleistocene/middle and early Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qye/Qya | Young eolian sand deposits overlie young alluvial fan deposits | Holocene and latest Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qye/Qyag | Young eolian sand deposits overlie young alluvial fan deposits composed of grus | Holocene and latest Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qyea | Young mixed eolian sand and alluvial deposits; eolian processes dominate | Holocene and latest Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qyea/Qia | Young mixed eolian sand and alluvial deposits overlie intermediate alluvial fan deposits | Holocene and latest Pleistocene/late and middle Pleistocene |

| ptype | name | source_ptype | source_name | source_age |
|--------------|--------------------------------|---------------------|---|--|
| Qye | Young Eolian and Dune Deposits | Qyea/Qoa | Young mixed eolian sand and alluvial deposits overlie old alluvial fan deposits | Holocene and latest Pleistocene/middle and early Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qyea/Qya | Young mixed eolian sand and alluvial deposits overlie young alluvial fan deposits | Holocene and latest Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qyea+Qipw | Young mixed eolian sand and alluvial deposits and intermediate wet playa deposits; intermixed | Holocene to middle Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qyea+Qya | Young mixed eolian sand and alluvial deposits and young alluvial fan deposits; intermixed | Holocene and latest Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qyed | Young eolian dune deposits; relatively stable dune deposits | Holocene and latest Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qyed/Qia | Young eolian dune deposits overlie intermediate alluvial fan deposits | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qyed/Qig | Young eolian dune deposits overlie intermediate groundwater discharge deposits | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qyed/Qipw | Young eolian dune deposits and intermediate wet playa deposits; intermixed | Holocene and latest Pleistocene/late and middle Pleistocene |
| Qye | Young Eolian and Dune Deposits | Qyed+Qipw | Young eolian dune deposits overlie intermediate wet playa deposits | Holocene to middle Pleistocene |
| Qof | Old Alluvial Fan Deposits | Qia | Intermediate alluvial fan deposits; typically compact, but can be loose; moderately to well developed desert pavement | late and middle Pleistocene |
| Qof | Old Alluvial Fan Deposits | Qia/ca | Intermediate alluvial fan deposits overlie carbonate rocks | late and middle Pleistocene/Pliocene to early Proterozoic |
| Qof | Old Alluvial Fan Deposits | Qia/ca+sl | Intermediate alluvial fan deposits overlie carbonate rocks and siliciclastic rocks | late and middle Pleistocene/Pliocene to early Proterozoic |
| Qof | Old Alluvial Fan Deposits | Qia/fp | Intermediate alluvial fan deposits overlie felsic plutonic rocks | late and middle Pleistocene/Pliocene to early Proterozoic |
| Qof | Old Alluvial Fan Deposits | Qia/fv | Intermediate alluvial fan deposits overlie felsic volcanic rocks | late and middle Pleistocene/Pliocene to early Proterozoic |

| ptype | name | source_ptype | source_name | source_age |
|--------------|------------------------------|---------------------|--|--|
| Qof | Old Alluvial Fan Deposits | Qia/mv | Intermediate alluvial fan deposits overlie mafic volcanic rocks | late and middle Pleistocene/Pliocene to early Proterozoic |
| Qof | Old Alluvial Fan Deposits | Qia/pc | Intermediate alluvial fan deposits overlie partially consolidated sedimentary rocks | late and middle Pleistocene/Pliocene to early Proterozoic |
| Qof | Old Alluvial Fan Deposits | Qia/Qig | Intermediate alluvial fan deposits overlie intermediate groundwater discharge deposits | late and middle Pleistocene |
| Qof | Old Alluvial Fan Deposits | Qia/Qoa | Intermediate alluvial fan deposits overlie old alluvial fan deposits | late and middle Pleistocene/middle and early Pleistocene |
| Qof | Old Alluvial Fan Deposits | Qia+Qoa | Intermediate alluvial fan deposits and old alluvial fan deposits; intermixed | late to early Pleistocene |
| Qof | Old Alluvial Fan Deposits | Qia+Qoa/ca+sl | Intermediate alluvial fan deposits and old alluvial fan deposits overlie carbonate rocks and siliciclastic rocks | late to early Pleistocene/Pliocene to early Proterozoic |
| Qof | Old Alluvial Fan Deposits | Qiag | Intermediate alluvial fan deposits composed of grus; fan made of clasts from granitic sources that weather to grus | late and middle Pleistocene |
| Qof | Old Alluvial Fan Deposits | Qiag/fp | Intermediate alluvial fan deposits composed of grus overlie felsic plutonic rocks | late and middle Pleistocene/Pliocene to early Proterozoic |
| Qof | Old Alluvial Fan Deposits | Qiag/fpg | Intermediate alluvial fan deposits composed of grus overlie felsic plutonic rocks | late and middle Pleistocene/Pliocene to early Proterozoic |
| Qof | Old Alluvial Fan Deposits | Qoa+Qia | Old alluvial fan deposits and intermediate alluvial fan deposits; intermixed | late to early Pleistocene |
| Qof | Old Alluvial Fan Deposits | Qoa+Qia/ca+sl | Old alluvial fan deposits and intermediate alluvial fan deposits overlie carbonate and siliciclastic rocks | middle and early Pleistocene/Pliocene to early Proterozoic |
| Qof | Old Alluvial Fan Deposits | Qoa+Qia/sl | Old alluvial fan deposits and intermediate alluvial fan deposits overlie siliciclastic rocks | middle and early Pleistocene/Pliocene to early Proterozoic |
| Qoa | Old Alluvial Valley Deposits | Qiae | Intermediate mixed alluvial and eolian sand deposits; alluvial processes dominate | late and middle Pleistocene |
| Qoa | Old Alluvial Valley Deposits | Qiae/Qig | Intermediate mixed alluvial and eolian sand deposits overlie intermediate groundwater discharge deposits | late and middle Pleistocene |

| ptype | name | source_ptype | source_name | source_age |
|--------------|--|---------------------|---|--|
| Qoa | Old Alluvial Valley Deposits | Qiv | Intermediate valley-axis deposits; medium to fine grained sand to silt and clay with interbedded coarse sand to gravel | late and middle Pleistocene |
| Qol | Old Lacustrine, Playa and Estuarine (Paralic) Deposits | Qipc | Intermediate crystal body playa deposits; poorly sorted silt, clay and sand; locally dominated by salts and crystalline gypsum | late and middle Pleistocene |
| Qol | Old Lacustrine, Playa and Estuarine (Paralic) Deposits | Qipw | Intermediate wet playa deposits; fine grained sand and silt; pronounced soil development; gypsum cement present; some salts | late and middle Pleistocene |
| Qoe | Old Eolian and Dune Deposits | Qie | Intermediate eolian sand deposits; well sorted, inactive sands; moderately compacted with bedding | late and middle Pleistocene |
| Qoe | Old Eolian and Dune Deposits | Qie/pc | Intermediate eolian sand deposits; well sorted, inactive sands; moderately compacted with bedding | late and middle Pleistocene/Pliocene to early Proterozoic |
| Qoe | Old Eolian and Dune Deposits | Qie/Qoa | Intermediate eolian sand deposits overlie old alluvial fan deposits | late and middle Pleistocene/middle and early Pleistocene |
| Qoe | Old Eolian and Dune Deposits | Qie/Qoe | Intermediate eolian sand deposits overlie old eolian sand deposits | late and middle Pleistocene/middle and early Pleistocene |
| Qvof | Very Old Alluvial Fan Deposits | Qoa | Old alluvial fan deposits; silt, sand, gravel and cobbles; compact to cemented; most soil stripped by erosion; some remnant varnish | middle and early Pleistocene |
| Qvof | Very Old Alluvial Fan Deposits | Qoa/ca | Old alluvial fan deposits overlie carbonate rocks | middle and early Pleistocene/Pliocene to early Proterozoic |
| Qvof | Very Old Alluvial Fan Deposits | Qoa/ca+sl | Old alluvial fan deposits overlie carbonate rocks and siliciclastic rocks | middle and early Pleistocene/Pliocene to early Proterozoic |
| Qvof | Very Old Alluvial Fan Deposits | Qoa/mv | Old alluvial fan deposits overlie mafic volcanic rocks | middle and early Pleistocene/Pliocene to early Proterozoic |
| Qvof | Very Old Alluvial Fan Deposits | Qoa/pc | Old alluvial fan deposits overlie partially consolidated sedimentary deposits | middle and early Pleistocene/Pliocene to early Proterozoic |

| ptype | name | source_ptype | source_name | source_age |
|--------------|--|---------------------|---|--|
| Qvof | Very Old Alluvial Fan Deposits | Qoa/sl | Old alluvial fan deposits overlie siliciclastic rocks | middle and early Pleistocene/Pliocene to early Proterozoic |
| Qvof | Very Old Alluvial Fan Deposits | Qoag | Old alluvial fan deposits composed of grus; moderately to poorly sorted sand and silt derived from granitic sources | middle and early Pleistocene |
| Qvof | Very Old Alluvial Fan Deposits | Qoag/fp | Old alluvial fan deposits composed of grus overlie felsic plutonic rocks | middle and early Pleistocene/Pliocene to early Proterozoic |
| Qvof | Very Old Alluvial Fan Deposits | Qoag/fpg | Old alluvial fan deposits composed of grus overlie felsic plutonic rocks that weather to grus | middle and early Pleistocene/Pliocene to early Proterozoic |
| Qvof | Very Old Alluvial Fan Deposits | QToa | Extremely old alluvial fan deposits; deeply dissected, typically steep terrane with little or no remnants of abandoned surfaces | early Pleistocene and Pliocene |
| Qvof | Very Old Alluvial Fan Deposits | QToa/fp+mr | Extremely old alluvial fan deposits overlie felsic plutonic rocks and metamorphic rocks | middle and early Pleistocene/Pliocene to early Proterozoic |
| Qvof | Very Old Alluvial Fan Deposits | QToa/mv | Extremely old alluvial fan deposits overlie mafic volcanic rocks | middle and early Pleistocene/Pliocene to early Proterozoic |
| Qvoa | Very Old Alluvial Valley Deposits | Qoae | Old mixed alluvial and eolian sand deposits; alluvial processes dominate | middle and early Pleistocene |
| Qvoa | Very Old Alluvial Valley Deposits | Qov | Older valley-axis deposits; fine to medium grained sandstone interbedded with mudstone and claystone | early Pleistocene |
| Qvoe | Very Old Eolian and Dune Deposits | Qoe | Old eolian sand deposits; well sorted, moderately to poorly cemented sand | middle and early Pleistocene |
| Tss | Coarse-grained Tertiary age formations | Qha/pc | Abundant hillslope deposits overlie partly consolidated sedimentary deposits | Holocene and Pleistocene/Pliocene to early Proterozoic |
| Tss | Coarse-grained Tertiary age formations | Qha/sl | Abundant hillslope deposits overlie siliciclastic rocks (sandstone, quartzite, shale, siltstone) | Holocene and Pleistocene/Pliocene to early Proterozoic |
| Tss | Coarse-grained Tertiary age formations | Qha/sl+ca | Abundant hillslope deposits overlie siliciclastic rocks and carbonate rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |

| ptype | name | source_ptype | source_name | source_age |
|--------------|---|---------------------|--|---|
| Tss | Coarse-grained Tertiary age formations | Qhs/pc | Sparse hillslope deposits overlie partly consolidated sedimentary deposits | Holocene and Pleistocene/Pliocene to early Proterozoic |
| Tss | Coarse-grained Tertiary age formations | Qhs/sl | Sparse hillslope deposits overlie siliciclastic rocks (sandstone, quartzite, shale, siltstone) | Holocene and Pleistocene/Pliocene to early Proterozoic |
| Tss | Coarse-grained Tertiary age formations | Qimc/pc | Intermediate colluvial deposits overlie partially consolidated sedimentary deposits | late and middle Pleistocene/Pliocene to early Proterozoic |
| Tv | Tertiary age formations of volcanic origin | Qha/fv | Abundant hillslope deposits overlie felsic volcanic rocks (rhyolite, rhyodacite, felsite) | Holocene and Pleistocene/Pliocene to early Proterozoic |
| Tv | Tertiary age formations of volcanic origin | Qha/mv | Abundant hillslope deposits overlie mafic volcanic rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |
| Tv | Tertiary age formations of volcanic origin | Qhs/mv | Sparse hillslope deposits overlie mafic volcanic rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |
| Tv | Tertiary age formations of volcanic origin | Qimc/mv | Intermediate colluvial deposits overlie mafic volcanic rocks | late and middle Pleistocene/Pliocene to early Proterozoic |
| pKm | Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin | Qha/ca | Abundant hillslope deposits overlie carbonate rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |
| pKm | Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin | Qha/ca+sl | Abundant hillslope deposits overlie carbonate and siliciclastic rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |
| pKm | Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin | Qha/mr | Abundant hillslope deposits overlie metamorphic rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |
| pKm | Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin | Qha/mr+fpg | Abundant hillslope deposits overlie metamorphic rocks and felsic plutonic rocks that weather to grus | Holocene and Pleistocene/Pliocene to early Proterozoic |
| pKm | Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin | Qhs/ca | Sparse hillslope deposits overlie carbonate rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |
| pKm | Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin | Qhs/ca+sl | Sparse hillslope deposits overlie carbonate rocks and siliciclastic rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |

| p type | name | source_p type | source_n ame | source_a ge |
|---------------|---|----------------------|---|---|
| pKm | Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin | Qhs/mr+fpg | Sparse hillslope deposits overlie metamorphic rocks and felsic plutonic rocks that weather to grus | Holocene and Pleistocene/Pliocene to early Proterozoic |
| pKm | Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin | Qimc/mr | Intermediate colluvial deposits overlie metamorphic rocks | late and middle Pleistocene/Pliocene to early Proterozoic |
| pKm | Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin | Qpd-ca | Deeply dissected pediment in carbonate rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |
| pKm | Cretaceous and pre-Cretaceous metamorphic formations of sedimentary and volcanic origin | Qpi-mr | Deeply dissected pediment in metamorphic rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |
| gr | Granitic and other intrusive crystalline rocks of all ages | Qha/fp | Abundant hillslope deposits overlie felsic plutonic rocks (granite, granodiorite) | Holocene and Pleistocene/Pliocene to early Proterozoic |
| gr | Granitic and other intrusive crystalline rocks of all ages | Qha/fp+mr | Abundant hillslope deposits overlie felsic plutonic rocks and metamorphic rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |
| gr | Granitic and other intrusive crystalline rocks of all ages | Qha/fpg | Abundant hillslope deposits overlie felsic plutonic rocks that weather to grus | Holocene and Pleistocene/Pliocene to early Proterozoic |
| gr | Granitic and other intrusive crystalline rocks of all ages | Qha/fpg+mp | Abundant hillslope deposits overlie felsic plutonic rocks that weather to grus and mafic plutonic rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |
| gr | Granitic and other intrusive crystalline rocks of all ages | Qha/fpg+mr | Abundant hillslope deposits overlie felsic plutonic rocks that weather to grus and metamorphic rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |
| gr | Granitic and other intrusive crystalline rocks of all ages | Qha/mp | Abundant hillslope deposits overlie mafic plutonic rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |
| gr | Granitic and other intrusive crystalline rocks of all ages | Qha/mp+fpg | Abundant hillslope deposits overlie mafic plutonic rocks and felsic plutonic rocks that weather to grus | Holocene and Pleistocene/Pliocene to early Proterozoic |
| gr | Granitic and other intrusive crystalline rocks of all ages | Qhs/fpg | Sparse hillslope deposits overlie felsic plutonic rocks that weather to grus | Holocene and Pleistocene/Pliocene to early Proterozoic |
| gr | Granitic and other intrusive crystalline rocks of all ages | Qpi-fp | Deeply dissected pediment in felsic plutonic rocks | Holocene and Pleistocene/Pliocene to early Proterozoic |

| ptype | name | source_ptype | source_name | source_age |
|--------------|--|---------------------|---|--|
| gr | Granitic and other intrusive crystalline rocks of all ages | Qpi-fpg | Deeply dissected pediment in felsic plutonic rocks that weather to grus | Holocene and Pleistocene/Pliocene to early Proterozoic |