Qs | Qds | Qg | Qa | Qls

SURFICIAL SEDIMENTS

Qs *beach sand deposits*
Qds *dune sand deposits*
Qa *valley and floodplain alluvial deposits*
Qls *landslide debris*

Qos | Qoa | Qo

OLDER DISSECTED SURFICIAL SEDIMENTS

Qos *dune sand deposits, in places weakly consolidated*
Qoa *remnants of weakly consolidated stream terrace and alluvial fan deposits of silt, sand and gravel*
Qo *Orcutt Sand: tan to rusty brown, poorly consolidated to locally indurated, wind-deposited sand; pebble gravel at base locally*

Tsqd | Tsqo | Tsq

SISQUOC FORMATION

marine; late Miocene age

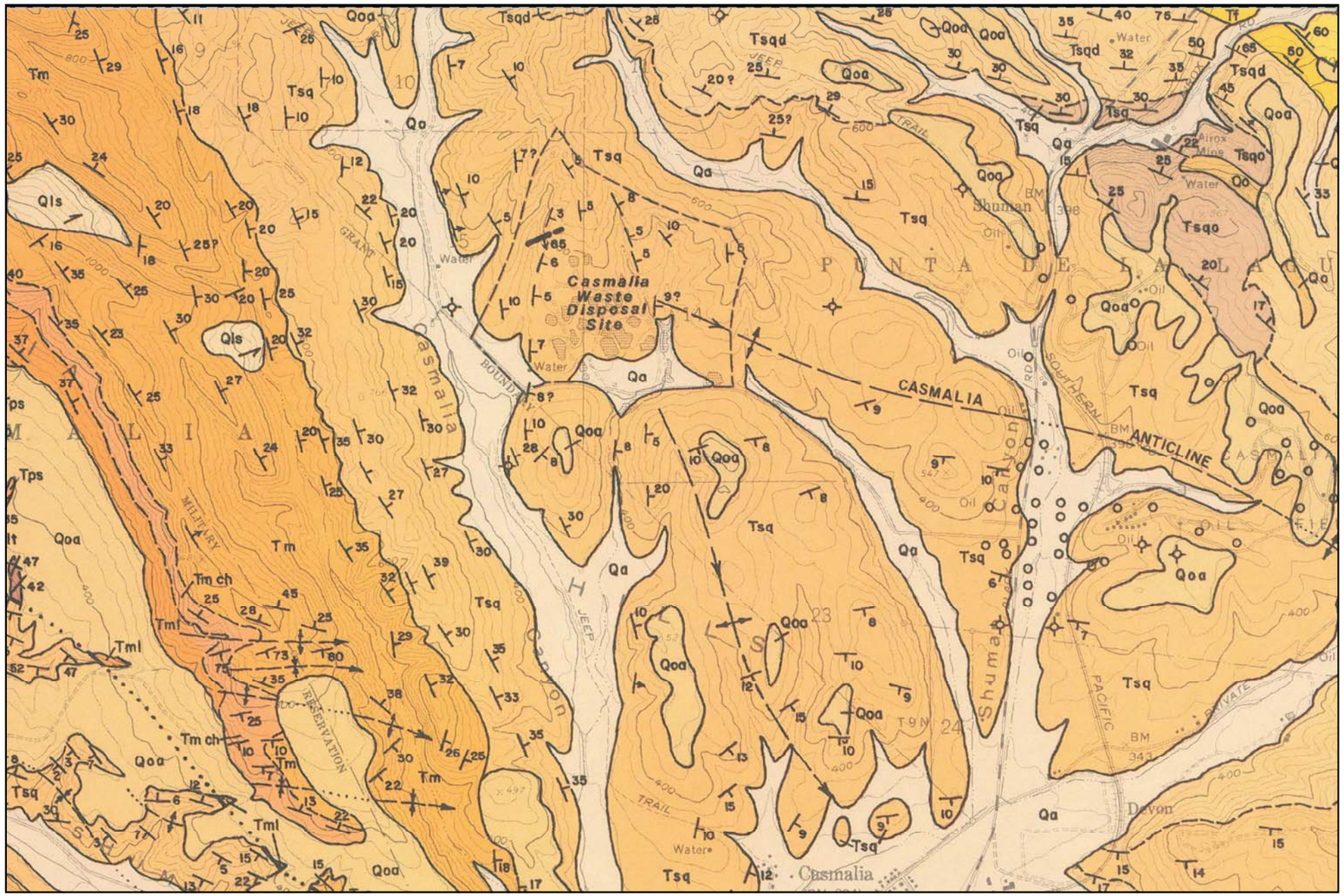
Tsqd *white to cream-white, punky, diatomaceous claystone and clayey diatomite*
Tsqo *same as Tsqd, but oil-saturated and partly burned locally to frothy stone*
Tsq *(Todos Santos Claystone Member of Woodring and Bramlette, 1950): light gray claystone and slightly diatomaceous or siliceous clay shale*

Tm | Tmch | Tml

MONTEREY SHALE

marine; middle to late Miocene age
Tm and Tmch - Mohnian Stage;
Tml - Luisian and Relizian(?) Stages

Tm *upper shale unit: white-weathering, thin bedded, hard, platy, porcelaneous siliceous shale*
Tmch *same as Tm, but brittle and cherty*
Tml *lower shale unit: white-weathering, thin bedded, fissile to platy, semi-siliceous shale with thin, hard limestone strata*



SYMBOLS

not all symbols present on each map

FORMATION CONTACT — *dashed where inferred or indefinite*

MEMBER CONTACT

CONTACT BETWEEN SURFICIAL SEDIMENTS *located approximately in places*

FAULT

dashed where indefinite or inferred, dotted where concealed, queried where existence doubtful. Parallel arrows indicate inferred relative lateral movement. Relative vertical movement shown by U/D (U = upthrown side D = downthrown side). Short arrow indicates dip of fault plane.

ANTICLINE

SYNCLINE

arrow on axis indicates direction of plunge, dotted where concealed

horizontal | 25 inclined | 20 inclined (approximate) | vertical | 25 overturned | 25 inclined metamorphic foliation

STRIKE AND DIP OF BEDDED ROCKS

DIRECTION OF LANDSLIDE MOVEMENT

SANDSTONE BED

CONGLOMERATE BED

ABANDONED EXPLORATORY OIL WELL

OIL WELL LOCATIONS INDICATED ON TOPOGRAPHIC BASE MAP.

Reference:
Dibblee, T.W. Jr., 1989, Geologic map of the Casmalia and Orcutt quadrangles, Santa Barbara County, California: Diblee Geological Foundation, Map DF-24 (Ehrenspeck, H.E., ed.), scale 1:24,000.

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0 2,000 4,000

Scale in Feet

1 inch = 2,000 feet

Figure H-1

Geologic Map of the Casmalia Quadrangle, Santa Barbara County, California

Final Remedial Investigation Report
Casmalia Resources Superfund Site
January 2011

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