ALTERNATIVE WITH BACKDAM
MAXIMUM OPERATING POOL
ELEV. 270 (4,500 MILLION GALLONS)
(13,810 ACRE-FEET)

ALTERNATIVE WITHOUT BACKDAM
MAXIMUM OPERATING POOL
ELEV. 249 (4,500 MILLION GALLONS)
(13,810 ACRE-FEET)

ALTERNATIVE UPSTREAM DAM ALIGNMENT (SEE REPORT FOR EXPLANATION)

TC-P3 TC-P4 TC-P5 TC-P6 TC-P7 TC-P8 TC-P19
TC-SL1 TC-SL2 TC-SL3 TC-SL4 TC-SL5
TC-B1 TC-B2 TC-B7 TC-B8 TC-B9
TC-T1

Qal
Qlso (Psv and Pp)
Qlso (Psv)
Qlso (Pp)
Psv
Psv (an)
Pp
Pp (cs/slts)
Pp (FOLDED cs/slts)
TIGHTLY FOLDED Pp BEDS

TRACE OF TOLAY FAULT (SIMS AND OTHERS, 1973)

A (SEE FIGURE 4-13)

ESTIMATED FOUNDATION EXCAVATION CONTOURS

MAIN DAM OUTLINE
CREST ELEV. 285 (ALTERNATIVE WITH BACKDAM)
CREST ELEV. 255 (ALTERNATIVE WITHOUT BACKDAM - NOT SHOWN)

BASE FROM USGS 7.5 MINUTE PETALUMA RIVER AND SEARS POINT QUADRANGLE TOPOGRAPHIC MAPS, 1954, PHOTOREVISED 1980 AND 1951, PHOTOREVISED 1968, RESPECTIVELY.

EXPLANATION

Qal — ALLUVIUM: SILTY CLAY TO SANDY CLAY; CLAYEY SAND AND GRAVELLY SAND IN ACTIVE STREAM CHANNEL.

Qlso (Psv) — OLD LANDSLIDE DEPOSIT: INTERPRETED FROM GEOMORPHIC EVIDENCE AND SUBSURFACE EXPLORATION DATA AT THE DAM SITE. LANDSLIDE FORMATION MATERIALS SHOWN IN PARENTHESES.

Pp — PETALUMA FORMATION: PLIOCENE AGE; SHOWN WHERE NOTED IN EXPOSURES; INCLUDES CLAYSTONE (cs), SILICEOUS SILTSTONE (slts) AND SANDSTONE.

Psv — SONOMA VOLCANICS: PLIOCENE AGE; SHOWN WHERE NOTED IN EXPOSURES; INCLUDES ANDESITE (an), AGGLOMERATE (ag), BASALT (bs), AND RHYOLITIC ASH FLOW TUFF (tf).

- APPROXIMATE GEOLOGIC CONTACT
- FAULT, DASHED WHERE UNCERTAIN, DOTTED WHERE CONCEALED
- 42 STRIKE AND DIP OF BEDDING
- cs an OBSERVED OUTCROP
- SPRING
- TOPOGRAPHIC SCARP
- TC-B9 EXPLORATION BORING
- TC-P19 TEST PIT
- TC-T1 EXPLORATION TRENCH
- TC-SL5 SEISMIC LINE
- A — A' LOCATION OF GEOLOGIC SECTION

NOTES: GEOLOGIC FEATURES SHOWN INCLUDING OUTCROPS, SPRINGS AND SCARPS WERE NOTED DURING SITE RECONNAISSANCE MAPPING ON OCTOBER 12-13, 1994 AND OCTOBER 28-31, 1994.

- IMPERVIOUS BORROW AREA
- EARTH/ROCK BORROW AREA

NOTE: ONLY THE PRIMARY IMPERVIOUS BORROW SOURCE AREAS AND POTENTIAL EARTH/ROCK BORROW SOURCE AREA ARE SHOWN. SOURCES OF OTHER ON-SITE CONSTRUCTION MATERIALS WITHIN THE RESERVOIR AREA ARE NOT OUTLINED. REFER TO THE REPORT FOR EXPLANATION OF ALL BORROW SOURCES.

SCALE
500 0 500 FEET

RUST ENVIRONMENT & INFRASTRUCTURE
San Jose, California

SITE GEOLOGIC AND EXPLORATION MAP
TOLAY CREEK MAIN DAM SITE

SANTA ROSA SUBREGIONAL LONG TERM WASTEWATER PROJECT

PROJECT NO. 88230
DATE OCTOBER 1995
FIGURE NO. 4-12