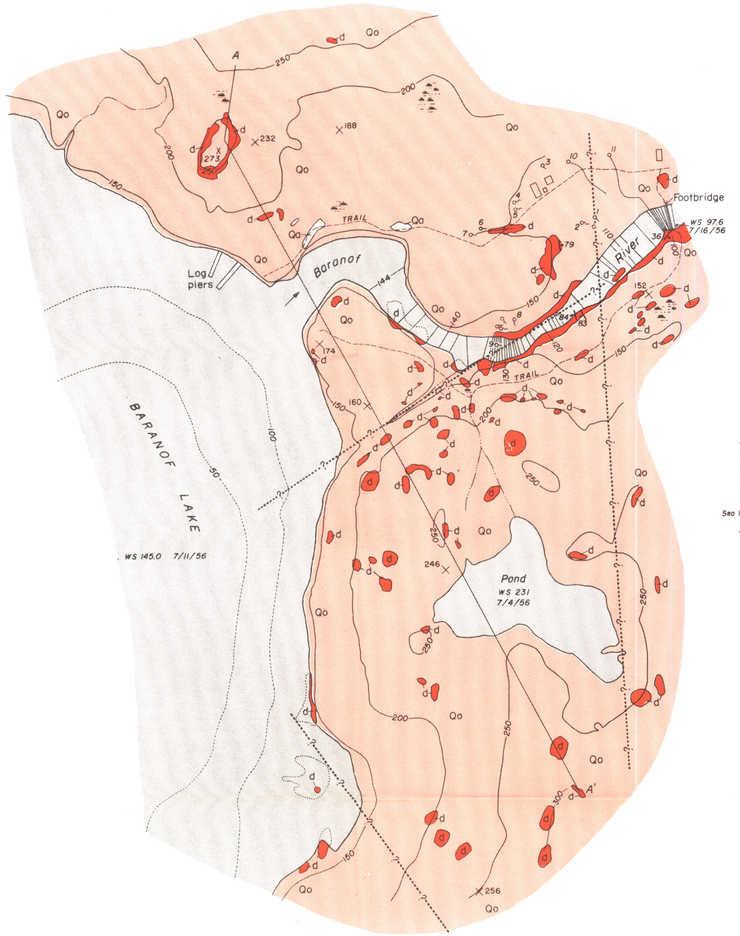
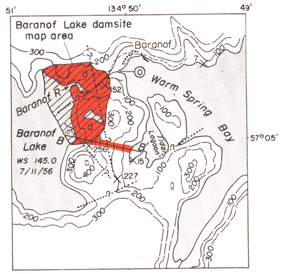


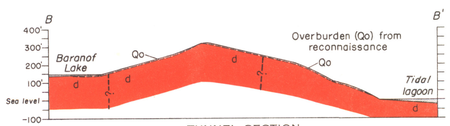
BARANOF LAKE DAMSITE



GENERAL MAP

1000 0 1000 2000 3000 4000 5000 FEET

Contour interval 100 feet
Dashed contours are approximately located
Datum is mean sea level



TUNNEL SECTION

100 0 500 1000 FEET

APPROXIMATE MEAN DECLINATION, 1960

EXPLANATION

UNCONSOLIDATED DEPOSITS

QUATERNARY

Qa — Alluvium
Gravel, sand, and silt. Active alluviation in stream channel

Qo — Overburden
Topsoil, silt, sand, and gravel. Considerable talus may be intermixed on the steep sidewalls at Carbon Lake damsite. These areas are generally overgrown by grass, brush, and trees

Qt — Talus
Large, angular blocks, some of which are as much as 20 feet in diameter

BEDROCK

MESOZOIC

d — Biotite-quartz diorite
Light- to dark-gray, medium- to fine-grained; contains crystals 1 to 4 mm in length. The biotite crystals are wavy, and many quartz and plagioclase crystals are slightly crushed or granulated

g — Migmatite
Foliated rocks with layers of fine- to medium-grained granulated quartz and thin layers of wavy biotite. The rock is cut by numerous dikes and sheets of biotite-quartz diorite and probably is an injection gneiss

Contact
Dashed where approximately located; dotted where under water

38 — Fault or shear zone, showing dip and relative movement
Dashed where approximately located; dotted where concealed; questioned where probable. The concealed probable faults or shear zones are interpreted from prominent linear features on aerial photographs

32 — Strike and dip of minor fault

27 — Strike and dip of foliation

60 — Strike and dip of joints

221 — Planetable bench mark

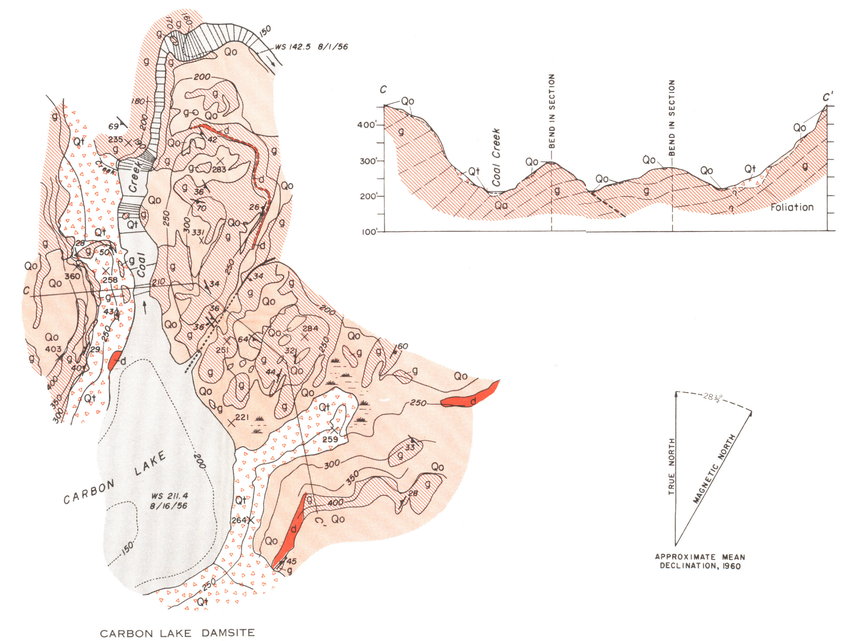
273 — Spot elevation

2 — River mileage
Measured from mouth of river

WS 211.4
8/16/56
Altitude of water surface
With date of measurement

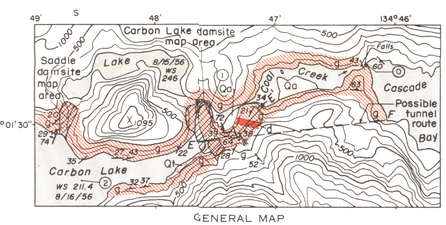
Direction of streamflow

2 — Hot spring
With reference number



CARBON LAKE DAMSITE

APPROXIMATE MEAN DECLINATION, 1960

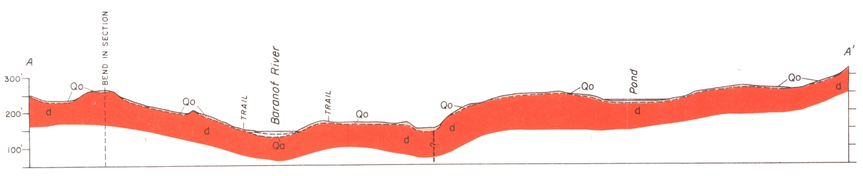


GENERAL MAP

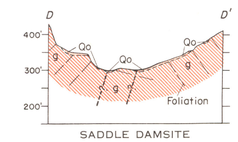
1000 0 1000 2000 3000 4000 5000 FEET

1 1/2 0 1 MILE

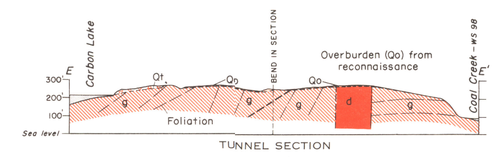
Contour interval 100 feet
Datum is mean sea level



BARANOF LAKE POWERSITE



SADDLE DAMSITE



TUNNEL SECTION

100 0 500 1000 FEET

CARBON LAKE POWERSITE

Topography compiled from plan, profile, and damsite maps, Baranof Lake and Carbon Lake, Alaska, 1956, scales 1:2400, 1:4800, and 1:24 000; and Sitka (A-3) quadrangle, 1948, scale 1:63 360, U. S. Geological Survey

GEOLOGIC MAPS AND SECTIONS OF PROPOSED POWERSITES AT BARANOF AND CARBON LAKES, BARANOF ISLAND, ALASKA

200 100 0 200 400 600 800 1000 FEET

CONTOUR INTERVAL 50 FEET ON LAND
AND 1 FOOT ON WATER SURFACE
SHORT DASHED CONTOURS ARE UNDER WATER
DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—10448

Geology by R. S. Saward, 1956