EXPLANATION

UNCONSOLIDATED DEPOSITS

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

QUATERNARY

BEDROCK

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

MESOZOIC

Contact
Dashed where approximately located; dotted where under water

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

Strike and dip of minor fault

Strike and dip of foliation

Strike and dip of joints

Planetable bench mark

Spot elevation

River mileage
Measured from mouth of river

Altitude of water surface
With date of measurement

Direction of streamflow

Hot spring
With reference number

BARANOF LAKE DAMSITE

Baranof Lake damsite map area

GENERAL MAP

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

BARANOF LAKE POWERSITE

TUNNEL SECTION

Overburden (Qo) from reconnaissance

Baranof Lake

Tidal lagoon

100   0   500   1000 FEET

CARBON LAKE DAMSITE

CARBON LAKE

GENERAL MAP

Carbon Lake damsite map area

Saddle damsite map area

Contour interval 100 feet
Datum is mean sea level

SADDLE DAMSITE

Foliation

CARBON LAKE POWERSITE

TUNNEL SECTION

Overburden (Qo) from reconnaissance

Carbon Lake

Coal Creek

Foliation

APPROXIMATE MEAN DECLINATION, 1960

TRUE NORTH   MAGNETIC NORTH

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