SURINAME

International boundary

District boundary

National Capital

Populated places

District capital

Scale 1:2,000,000

0 25 50 75 Statute Miles

0 25 50 75 Kilometers

GROUND WATER RESOURCES

District Boundaries

1	Paramaribo (city)	6	Saramacca
2	Wanica	7	Coronie
3	Para	8	Nickerie
4	Brokopondo	9	Marowijne
5	Commewijne	10	Sipaliwini

Map Unit

FRESH WATER GENERALLY PLENTIFUL

1 — Very small to large quantities of fresh water available from the Teritary age Coesewijne and A Sand artesian aquifers consisting of nonconsolidated and consolidated clastic sediments of clay and sandy clay, and coarse-grained sandstone. Depth to the Coesewijne aquifer ranges from 70 to 110 m in the Paramaribo area and up to 280 m in the western part of the country. Depth to the A Sand aquifer ranges from 120 m in the coastal area to 340 m in the western part of the country.

2 — Small to large quantities of freshwater available primarily from the Tertiary age Zanderij aquifer consisting of non-consolidated to consolidated sediments of sandstone, siltstone, and gravel. Depth to aquifer is less than 80 m.

FRESH WATER LOCALLY PLENTIFUL

3 — Meager to large quantities of fresh water available locally from fractured and weathered zones in Precambrian age sedimentary, metaclastic and carbonate rocks. Depth to aquifer is less than 70 m.

FRESH WATER SCARCE OR LACKING

4 — Meager to moderate quantities of brackish to saline water available from fractured and weathered zones in Precambrian age granite and gneiss. Depth to aquifer is less than 70 m.

Note: Map unit numbers refer to entries in table C-2.

QUANTITATIVE TERMS:
Enormous = >100 liters per second (L/s) (1,600 gallons per minute (gal/min))
Very large = >50 to 100 L/s (800 to 1,600 gal/min)
Large = >25 to 50 L/s (400 to 800 gal/min)
Moderate = >10 to 25 L/s (160 to 400 gal/min)
Small = >4 to 10 L/s (64 to 160 gal/min)
Very small = >1 to 4 L/s (16 to 64 gal/min)
Meager = >0.25 to 1 L/s (4 to 16 gal/min)
Unsuitable = ≤0.25 L/s (4 gal/min)

QUALITATIVE TERMS:
Fresh water = maximum total dissolved solids (TDS) ≤1,000 milligrams per liter (mg/L); maximum chlorides ≤600 mg/L; maximum sulfates ≤300 mg/L
Brackish water = maximum TDS >1,000 mg/L but ≤15,000 mg/L
Saline water = TDS >15,000 mg/L

HARDNESS TERMS:
Soft = 0 to 60 mg/L $CaCO_3$
Moderately hard = 61 to 120 mg/L $CaCO_3$
Hard = 121 to 180 mg/L $CaCO_3$
Very hard = >180 mg/L $CaCO_3$

CONVERSION CHART:

To Convert	Multiply By	To Obtain
liters per second	15.84	gallons per minute
liters per second	60	liters per minute
gallons per minute	0.063	liters per second
gallons per minute	3.78	liters per minute

Note: Features have been obtained from various sources of differing scales. Alignment and geospatial accuracy are approximate.

Figure C-2. Ground Water Resources