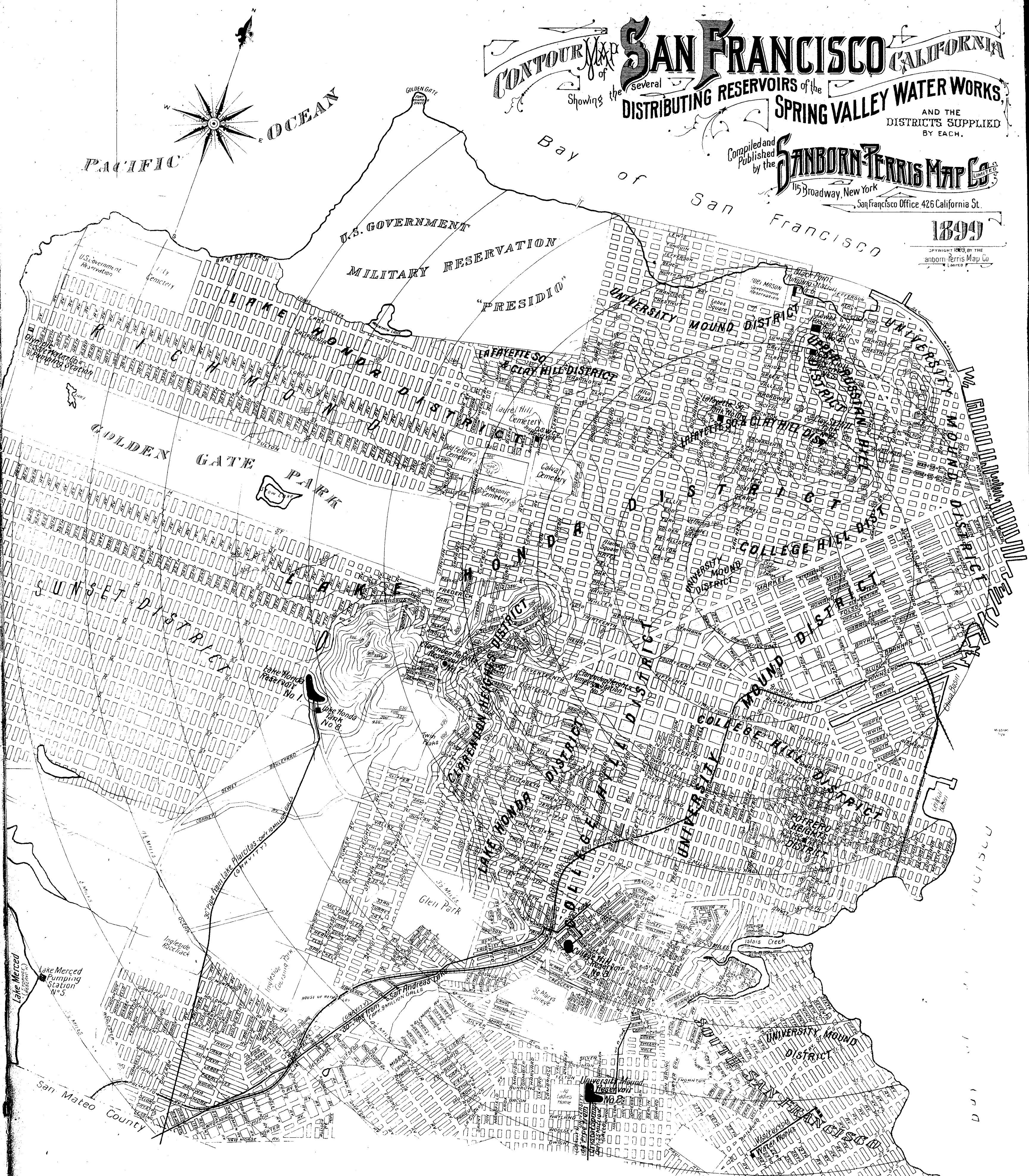


# CONTOUR MAP of SAN FRANCISCO CALIFORNIA

Showing the several DISTRIBUTING RESERVOIRS of the SPRING VALLEY WATER WORKS, AND THE DISTRICTS SUPPLIED BY EACH.

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| No.   | Reservoir          | Elevn   | Capacity           | COLOR DISTRICT | RANGE OF LBS PRESSURE IN DISTRICT |
|-------|--------------------|---------|--------------------|----------------|-----------------------------------|
| 1     | LAKE HONDA         | 377 FT. | 33,000,000 GALLS.  |                | 25 TO 125.                        |
| 2     | UNIVERSITY MOUND   | 175     | 33,000,000         |                | 40 - 60                           |
| 3     | COLLEGE HILL       | 252     | 15,000,000         |                | 20 - 90                           |
| 4     | LOWER RUSSIAN HILL | 139     | 6,700,000          |                | 20 - 55                           |
| 5     | UPPER              | 306     | 3,725,000          |                | 15 - 100                          |
| 6     | POTRETO HEIGHTS    | 300     | 1,000,000          |                | 10 - 50                           |
| 7     | CLARENDON HEIGHTS  | 600     | 565,000            |                | 40 - 150                          |
| 8     | LAKE HONDA TANK    | 390     | 540,000            |                | 25 - 125                          |
| 9     | CLAY ST. HILL TANK | 375     | 237,000            |                | 20 - 60                           |
| 10    | LAFAYETTE SQ. TANK | 375     | 108,000            |                | 20 - 60                           |
| Total |                    |         | 93,875,000 Gallons |                |                                   |

**Explanatory** Reservoirs No. 1, 2 and 3 are principal distributing reservoirs, and are supplied by gravity and pumping, as per map, from storage reservoirs. Remaining reservoirs and tanks in above table are supplied from Nos. 1, 2 and 3.

The mains in Lake Honda Lafayette Sq., Clay Hill and Upper Russian Hill districts are connected, and the Black Point Pumping Station forces water directly into mains and against the 377 ft. pressure of Lake Honda Reservoir, supplying the Upper Russian Hill district and tanks No. 8 and 10; the surplus from said tanks flowing into Lake Honda district. Reservoir No. 4, is used only as a balance, the surplus water from University Mound district flowing into it at night and out during the day. Reservoir No. 5, is used in the same manner as No. 4, the surplus water coming from Lake Honda district.

Clarendon Heights Reservoir No. 7, is supplied by pumping from University Mound district. Potrero Heights Reservoir No. 6, is supplied by gravity from Lake Honda district, or by pumping from University Mound district.

Contour lines are given for every fifty feet in elevation. Circles one half mile apart centering at City Hall.

### WATER SUPPLY.

Water supplied by the SPRING VALLEY WATER WORKS, a private corporation, three distinct systems from six different sources through seven districts as shown by the above map. Distribution is by gravity.

**SOURCES OF SUPPLY.** Crystal Springs Lake, 23 Miles S.E. of business center of city, Storage capacity 19,000 Million Galls. Elevation 350 ft. above city base.

San Andreas Lake - 15 Miles S.E. of city. Storage capy 6,200 Million Galls. Elevn 452 ft.

Portola Lake - 26 Miles S.E. of city. Storage capy 3,000 Million Galls. Elevn 330 ft.

Pilarcitos Lake, 17 1/2 Miles S.E. of city. Storage capy 1,050 Million Galls. Elevn 696 ft.

(All of the above Lakes are storage reservoirs formed by artificial dams across the mouths of canyons, and are fed by living streams and surrounding water sheds.)

Lake Merced, a natural lake, situated in the S.W. portion of the city and county of S.F. Storage capy 2,700 Million Galls. Elevn 10 ft. fed by natural water sheds.

Total storage capacity of outside storage reservoirs including Lake Merced 31,950 Mil. Galls.

An additional source of supply is furnished by Alameda Creek, located near Niles, on the East side of San Francisco Bay, 29 Miles (air line) S.E. of city. Average daily flowing capy 6 million galls per 24 hours. Water conveyed from creek 23 miles S.W. to Belmont Pumping Station, and thence North, through 6 miles of 36 inch pipe, where it joins 44 inch pipe from Crystal Springs.

Distributing reservoirs within the city limits are shown in the accompanying table in which numbers and names, elevations and capacities will be found.

**PUMPING STATIONS**

| No. | Name              | LOCATION                                  | CAPY PER 24 HOURS |
|-----|-------------------|---|-------------------|
| 1   | Crystal Springs   | Crystal Springs Lake                      | 12 Million Galls  |
| 2   | Millbrae          | Millbrae Station                          | 16                |
| 3   | Pilarcitos        | San Andreas                               | 4                 |
| 4   | Belmont           | Belmont Station                           | 8                 |
| 5   | Lake Merced       | S.E. shore of Lake Merced                 | 7                 |
| 6   | Black Point       | Intersec. of Van Ness Av. and S.F. Bay    | 5 1/2             |
| 7   | Clarendon Heights | N. side of 17th St. bet. Church & Sanchez | 2 3/4             |

Nos. 1, 2 & 3 pump water from Crystal Springs into San Andreas and Pilarcitos supply pipes before reaching the city. No. 4 pumps from the Alameda Creek pipe line into pipe line from Crystal Springs. No. 5 pumps from Lake Merced into San Andreas pipe line, connected to same within city limits. No. 6 pumps from the lower into the higher sections in the No. 7, then part of the city. No. 7, pumps from University Mound district into Clarendon Heights and Potrero Heights Reservoirs, the latter reservoir is also connected by gravity with Lake Honda district.

Total daily flowing capacity into reservoirs, 40 Million Galls.

Average daily consumption 25 Million Galls.

About 370 miles of Water Pipes in streets, 3 inches to 44-inch diameter.

Pressure varies from 10 to 150 lbs per sq. inch.

Larger mains are constantly being laid in various portions of the city to replace those of smaller size to which many of the fire hydrants are at present attached.

**VISITATION WATER WORKS** supplies part of the South Easterly portion of the city known as South San Francisco. Gravity pressure principally for domestic purposes. Pumping Station, 1 1/2 Million Galls capy per day forces water into 3 tanks, capy unknown, elevation 160 ft., and thence by gravity to mains. Location of pumping station and tanks shown on map. 5 Single Hydrants on 15 inch main.

**THE OLYMPIC SALT WATER CO.** has a system of mains supplying salt water for bathing purposes. Pumping station on ocean beach near Cliff No. 6 Capacity 3 Million galls per day. Water pumped to reservoir of 5 million galls capacity, elevation 275 ft., through 3 3/4 miles of 16" iron pipe on Point Lobos Av. From reservoir water is conveyed Easterly by gravity through 14" pipe. 22 Single fire hydrants all on Point Lobos Av. between reservoir and pumping station. For location of pump house and reservoir see map.