Equation

$$\Delta = c_\alpha H \log\left(\frac{T_2 - T_0}{T_1 - T_0}\right)$$

c_α = Coefficient of Secondary Compression

c_α = 1.5 - 2.0%

H = Thickness of Bay Mud

Analysis of Settlements at Mission Street

1. End of Filling: T_0 = 1859
2. End of Primary Consolidation T_1 = 1965
3. Secondary Consolidation from 1965 to 1985
4. Measurements

Point	Settlement, in
1	1.2
2	1.9
3	1. 6
4	1.4
5	1.6
Average	1.5

5. Estimate Settlements from 1965 to 1985

H = 90 ft T_1 = 1965 T_2 = 1985

Δ = 0.02 x 90 x 12 x log (126/106) = 1.6 in

Future Settlements

1. 30 Years after Construction: 1995 to 2025

   Δ = 0.02 x 90 x 12 x log (166/136) = 1.9 in

2. 50 Years after Construction: 1995 to 2045

   Δ = 0.02 x 90 x 12 x log (186/136) = 3.0 in