


.6 infrastructure

1 former water quality issues at ocean beach greatly influence the development of current infrastructure



60-70 CSO's/ yr (before)


water quality



westside transport box under great hwy

< 8 CSO's/ yr (after Clean Water Program)

SF stormwater management system



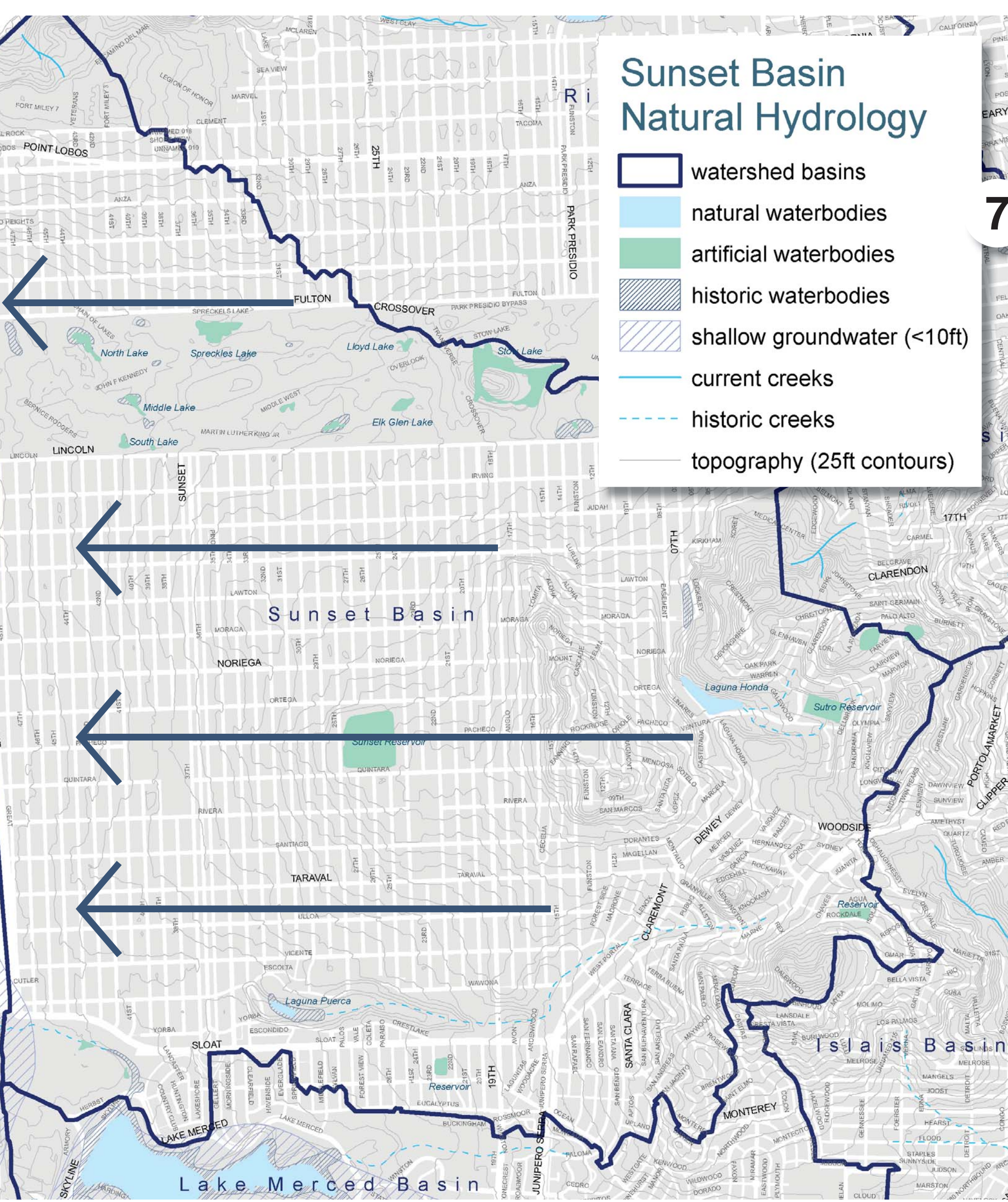
2 westside transport box



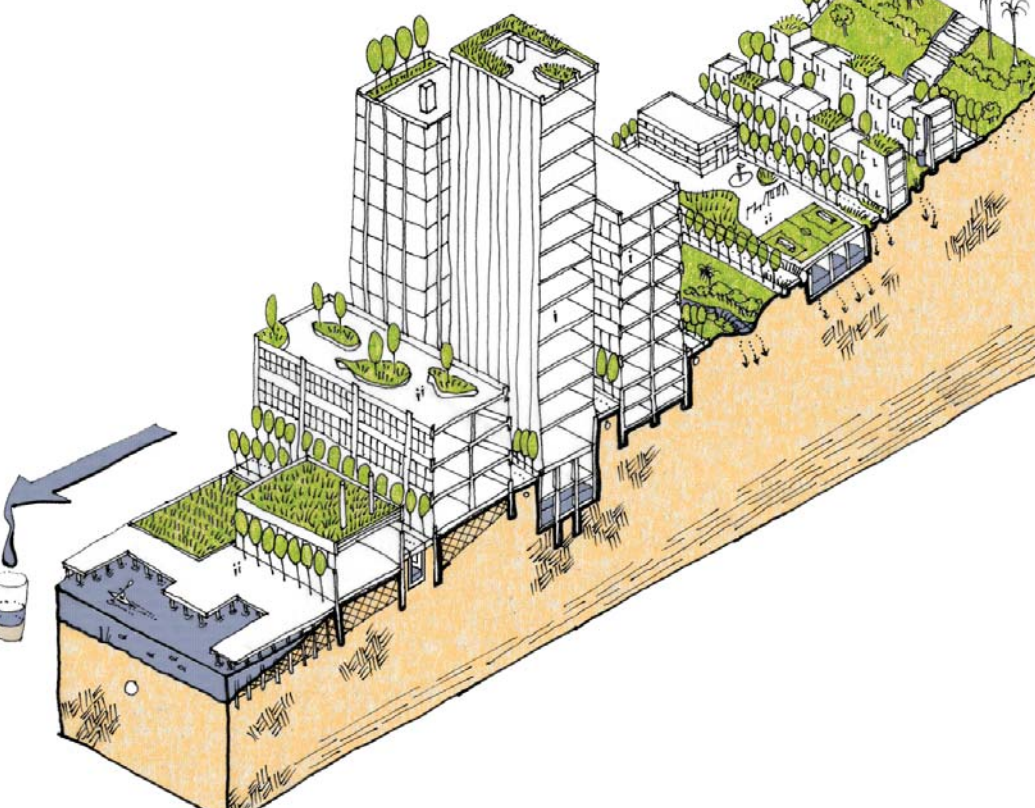
westside pump station



oceanside wastewater treatment plant



low-impact design city



stormwater detention - Pacific Shores Ctr



- 1 pre-1986 : problematic combined, untreated, system overflows directly into ocean almost every time it rains
60-70 CSO's/ yr

- 2 westside transport box (1986) is built : treatment & storage of 49.3 million gallons
- 3 result : better water quality & fewer combined sewer overflows onto beach
8 overflows per year, max

- 4 lake merced tunnel at risk due to erosion, 40' of bluff recession, 2010

- 5 infrastructure at OB handles the whole west side of SF's single watershed
- 6 Oceanside Wastewater Treatment Plant (1993) : the city's newest treatment facility, treats SF's west side

- low-impact design (LID)
- 7 LID & watershed management greatly lessens the load

map legend

- project boundary
 - SEWER SYSTEM
 - westside transport box
 - sewer pipe less than 50 years old
 - sewer pipe more than 50 yrs old
 - sewer pipe more than 80 yrs old
 - sewer pipe (unknown age)
 - water infrastructure building
 - wet-weather outfall (combined sewer)
 - REVETMENTS
 - rubble
 - emergency repair area
- * CSO's = combined sewer overflow

