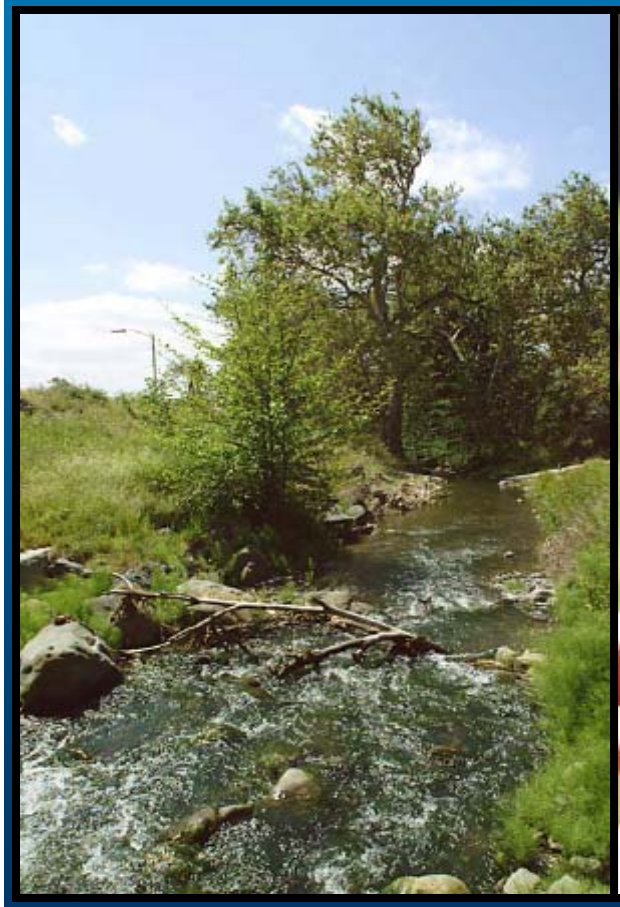
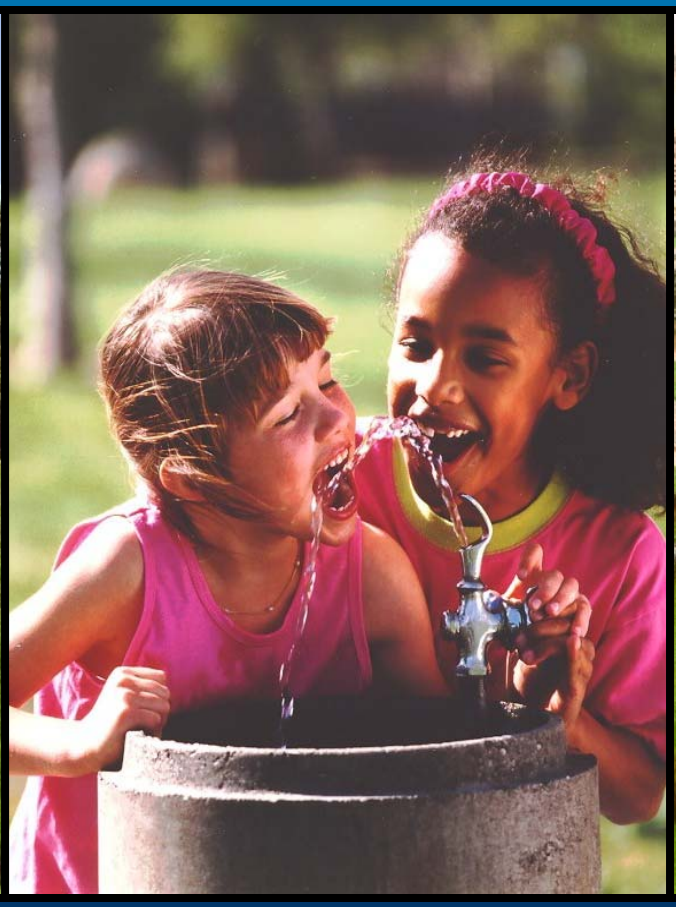
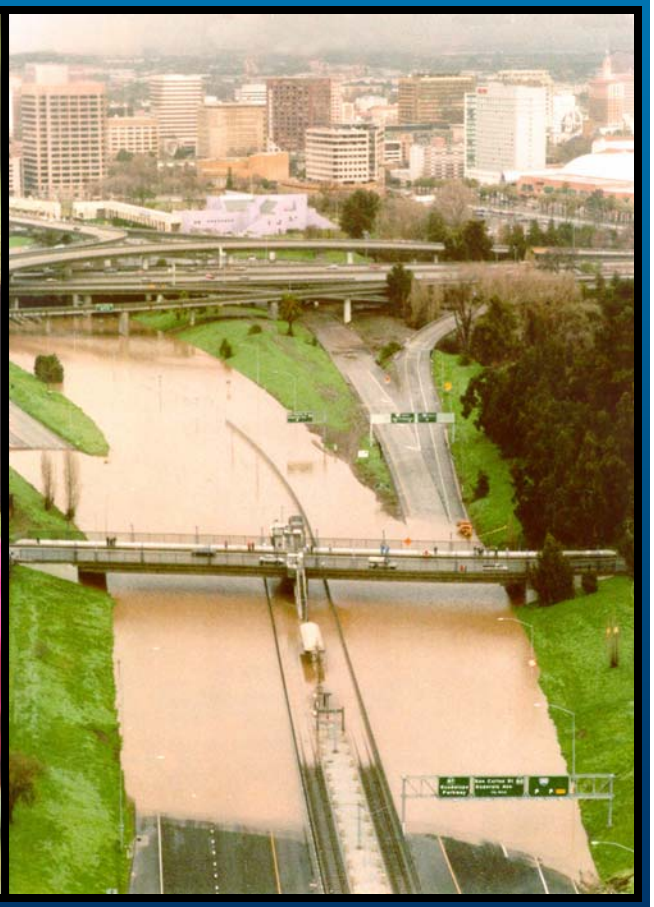
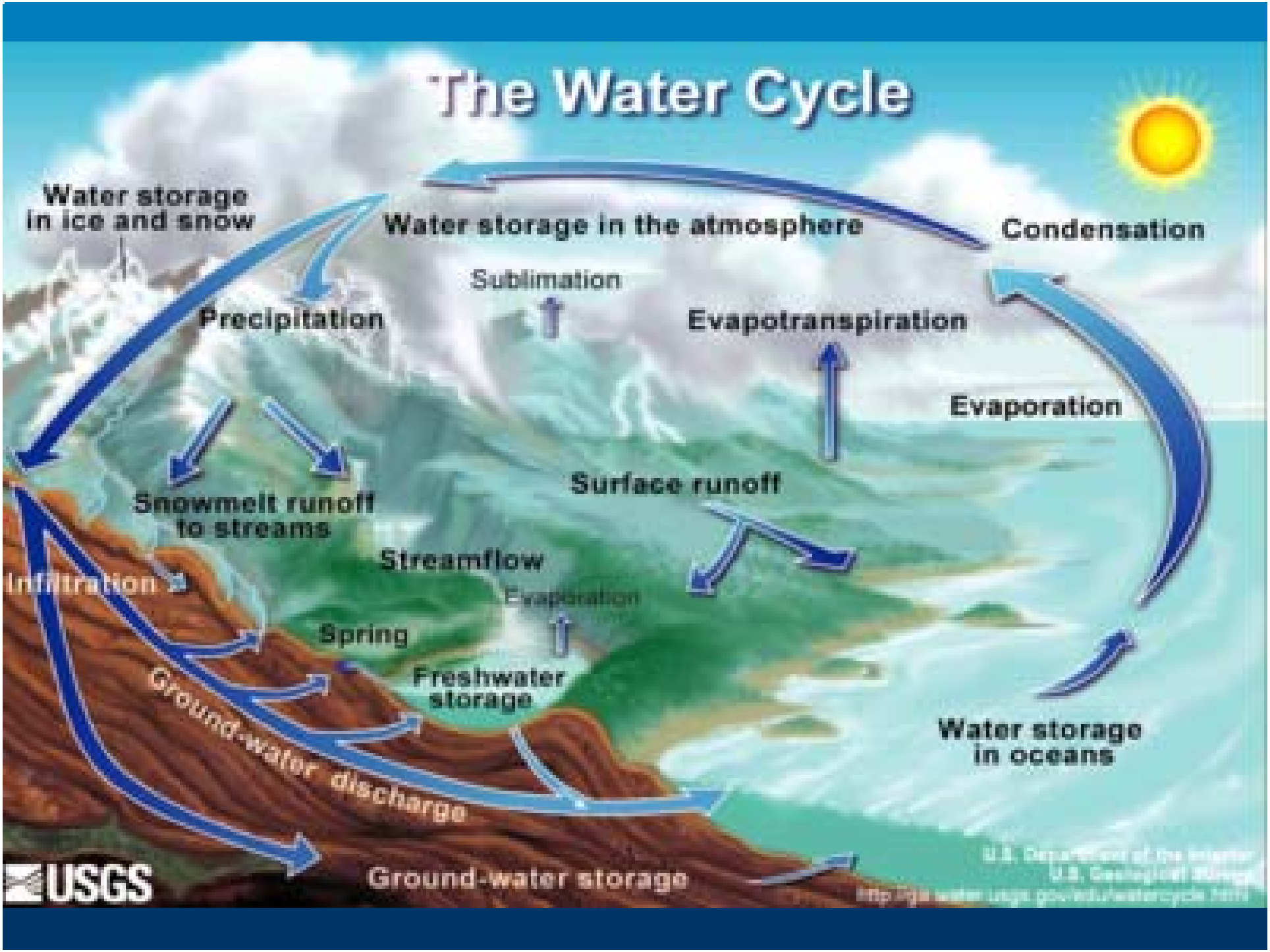
Water and the General Plan

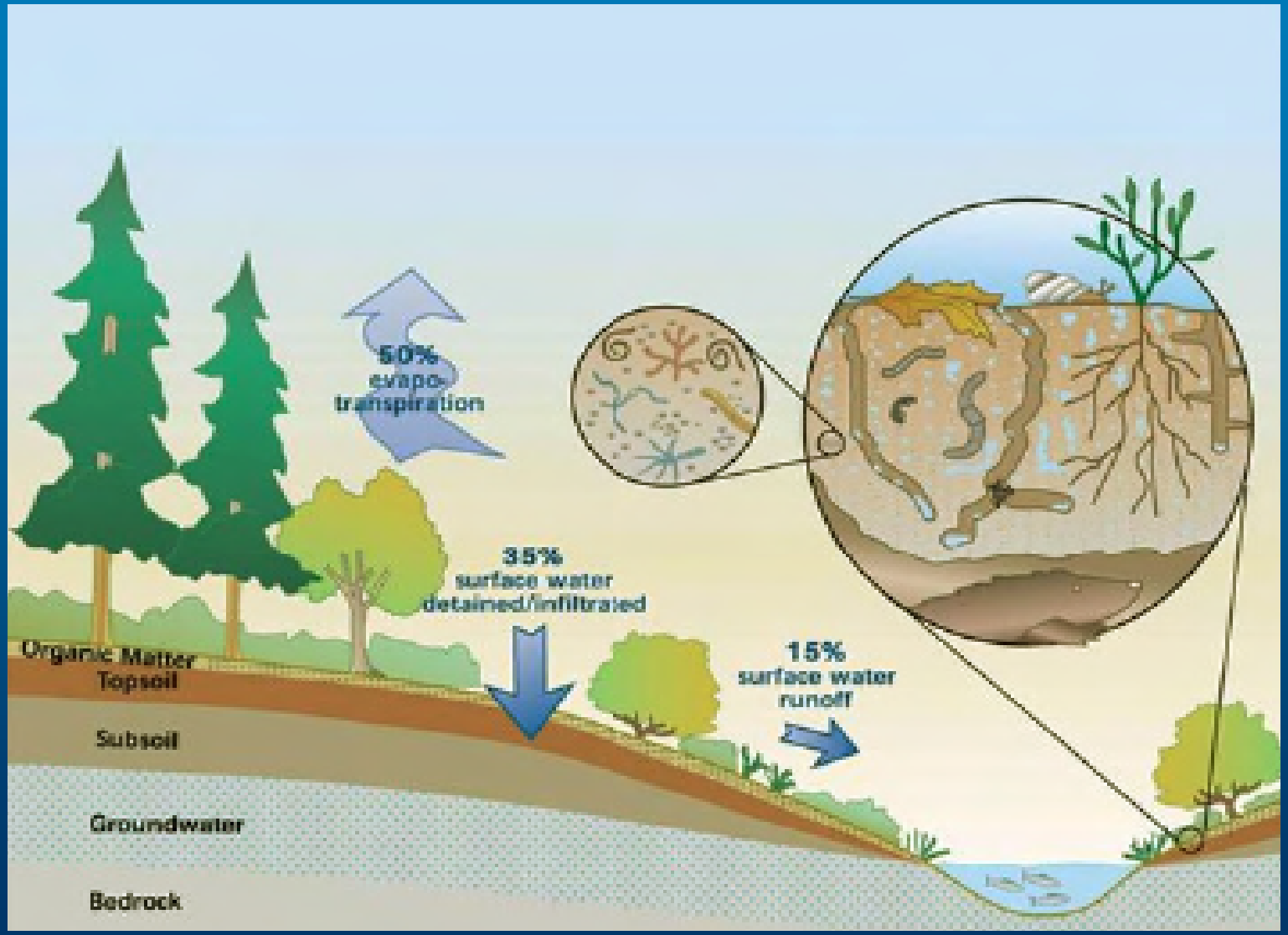






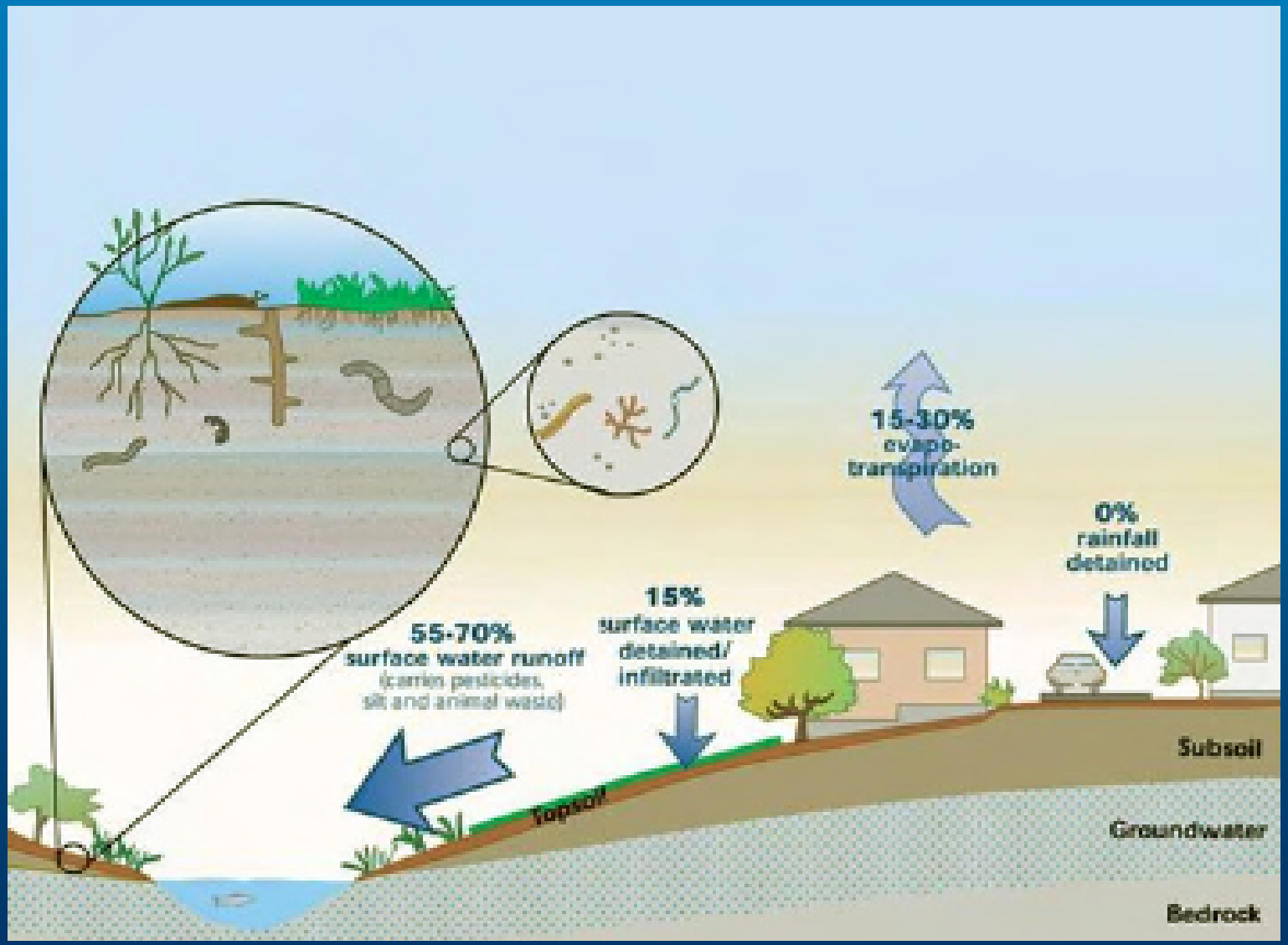

The Water Cycle
Water storage in ice and snow
Water storage in the atmosphere
Condensation
Sublimation
Precipitation
Evapotranspiration
Evaporation
Surface runoff
Snowmelt runoff to streams
Streamflow
Infiltration
Evaporation
Spring
Freshwater storage
Ground-water discharge
Water storage in oceans
Ground-water storage
USGS

Watershed: Un-built



Source: King County Department of Natural Resources

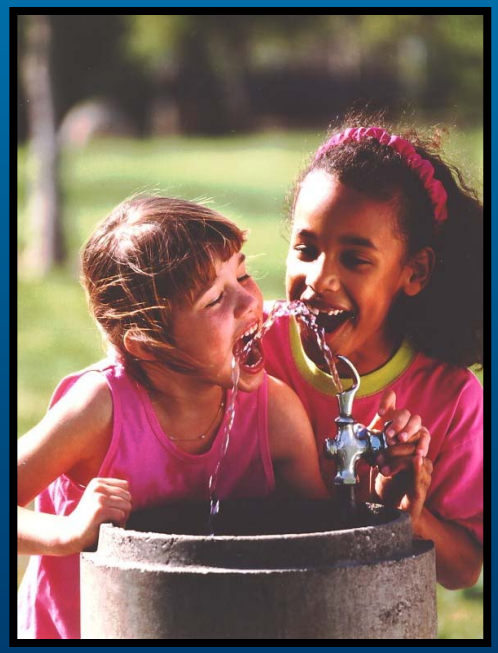
Watershed: Built



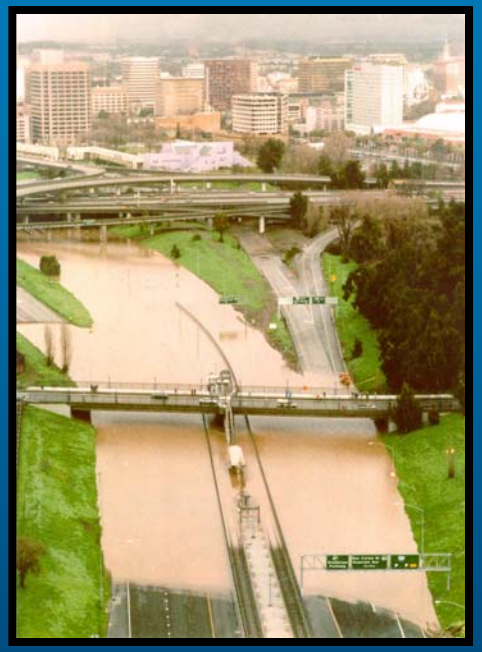
Source: King County Department of Natural Resources

Today's Discussion

Water Quality

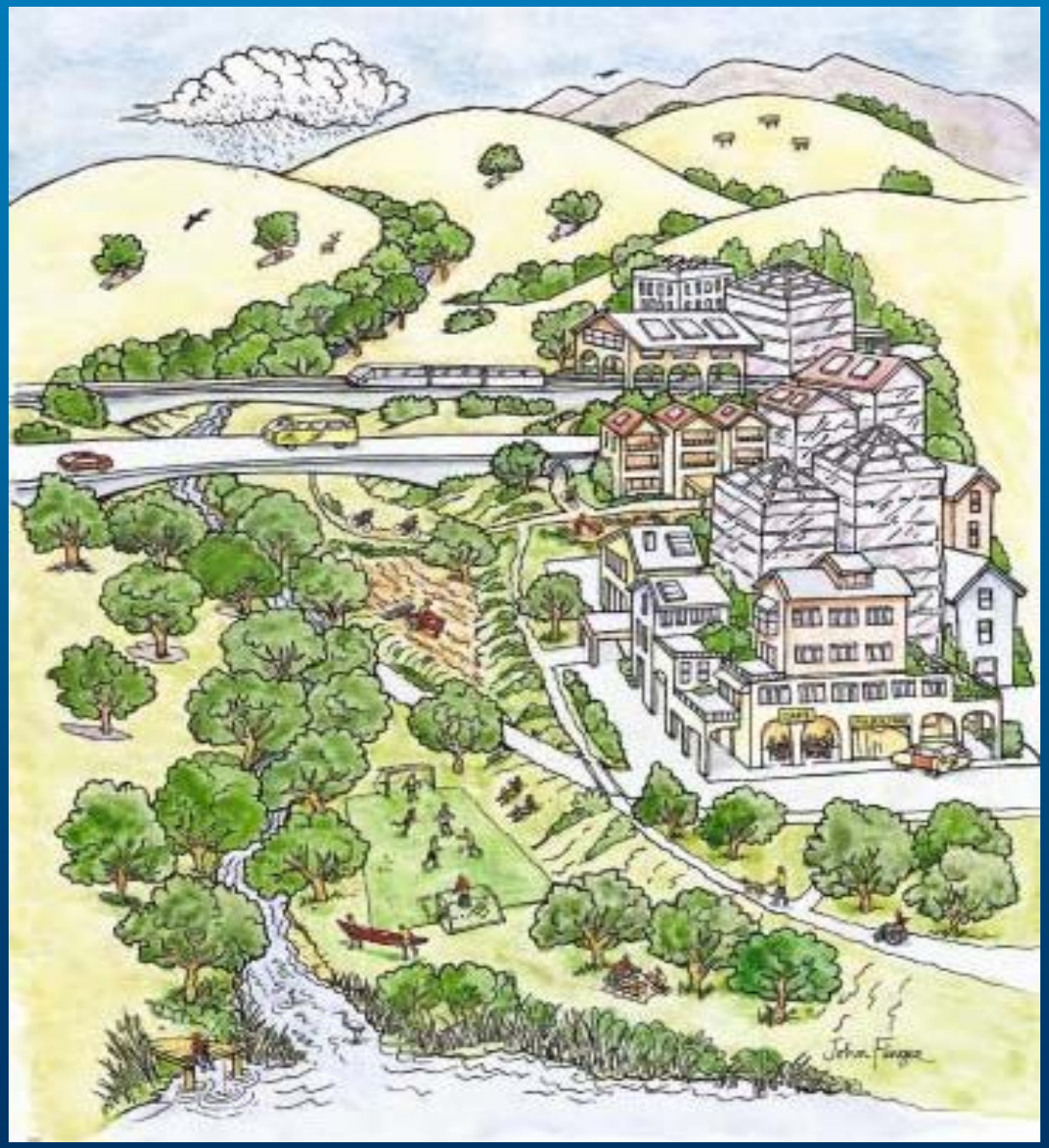


Water Supply



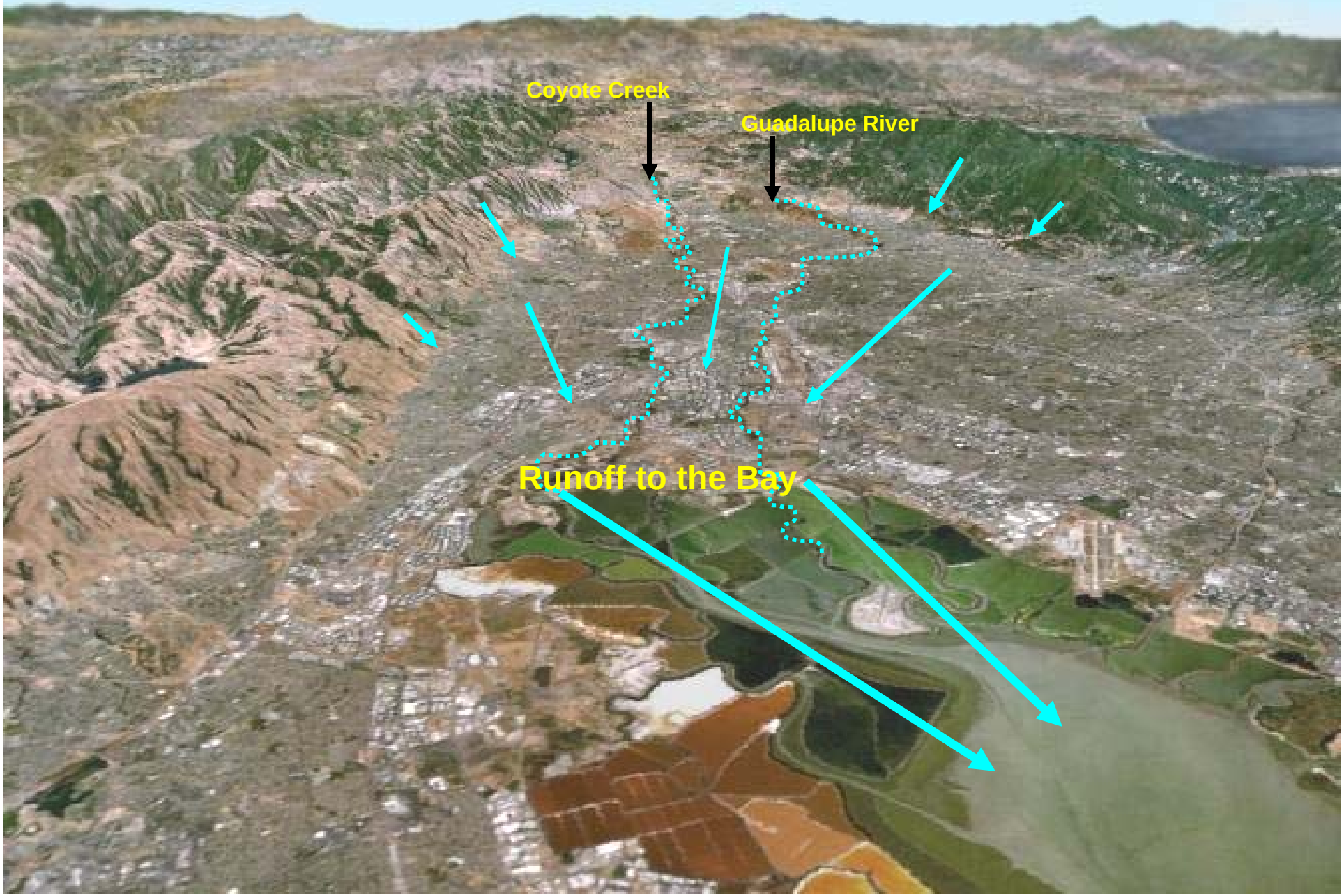
Flooding

A Vision For The Future



- Increase Density
- Protect Open Space
- Protect Riparian Areas

The Santa Clara Watershed Basin Looking Southeast



Protecting the Bay

Where does our Water go?

Indoor Activities

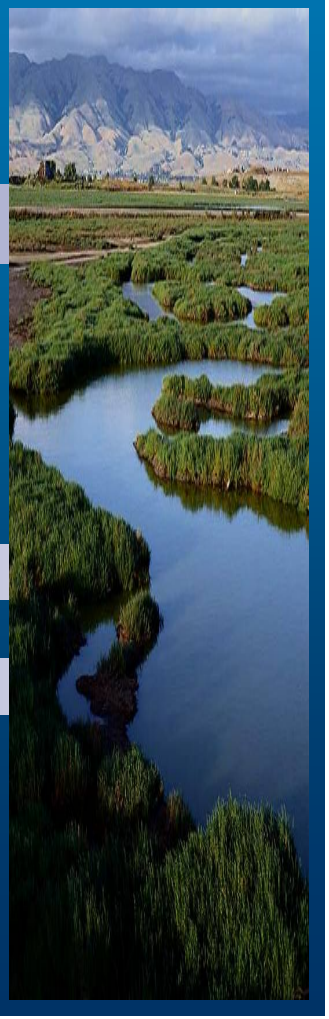
Sanitary Sewer

San Jose / Santa Clara Water Pollution Control Plant

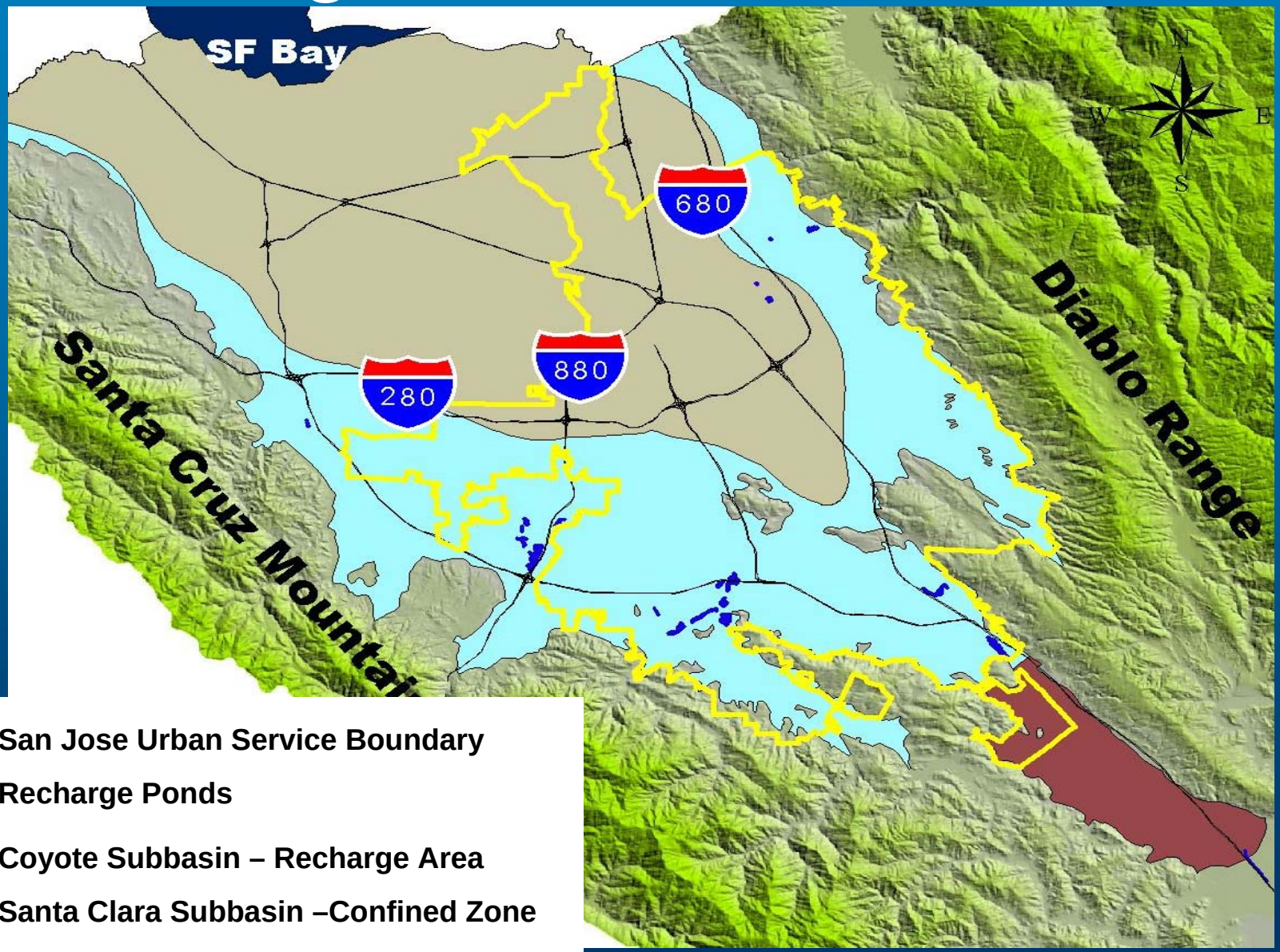
Outdoor Activities

Storm Sewer

Creeks & Rivers



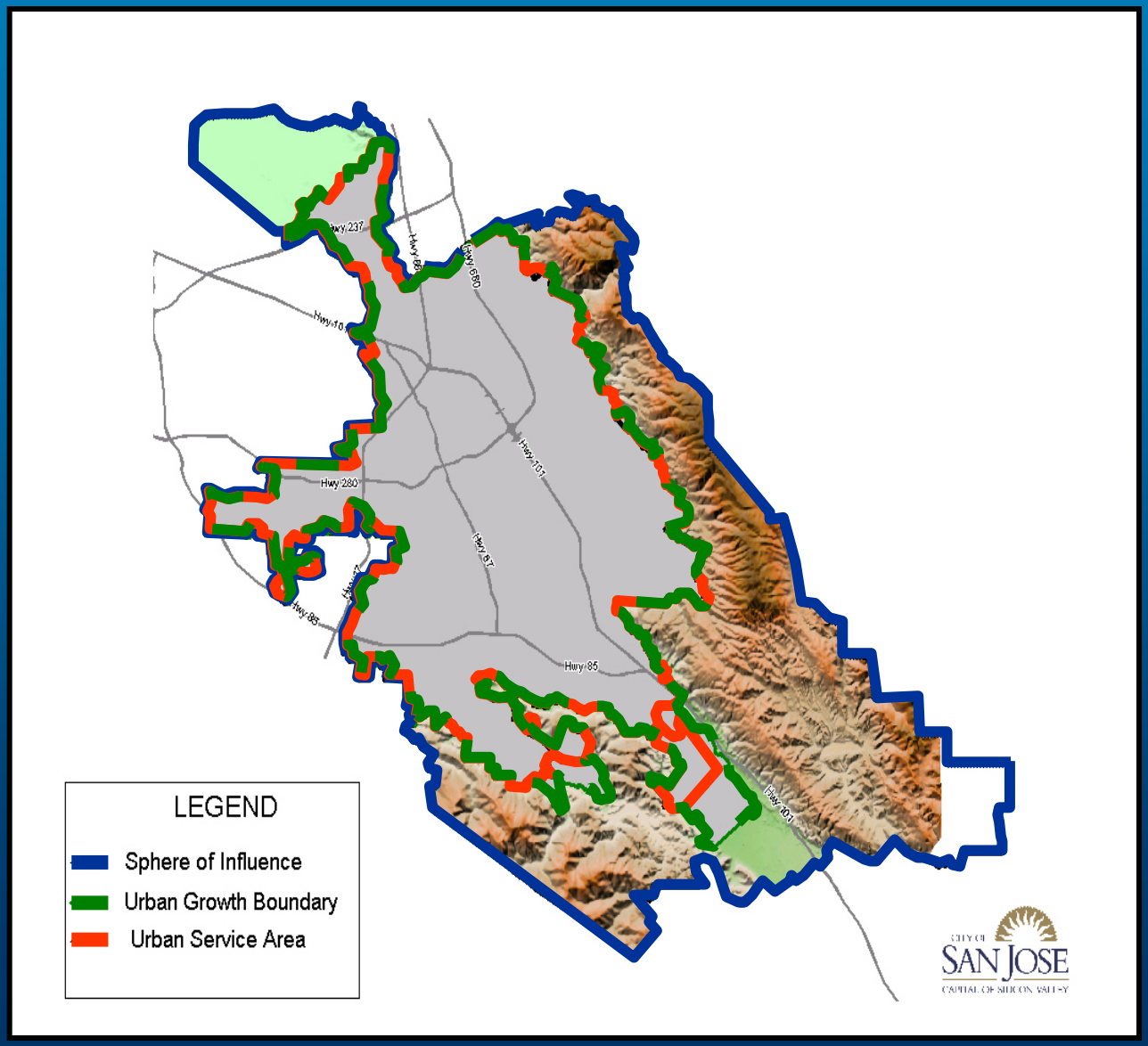
Recharge Areas



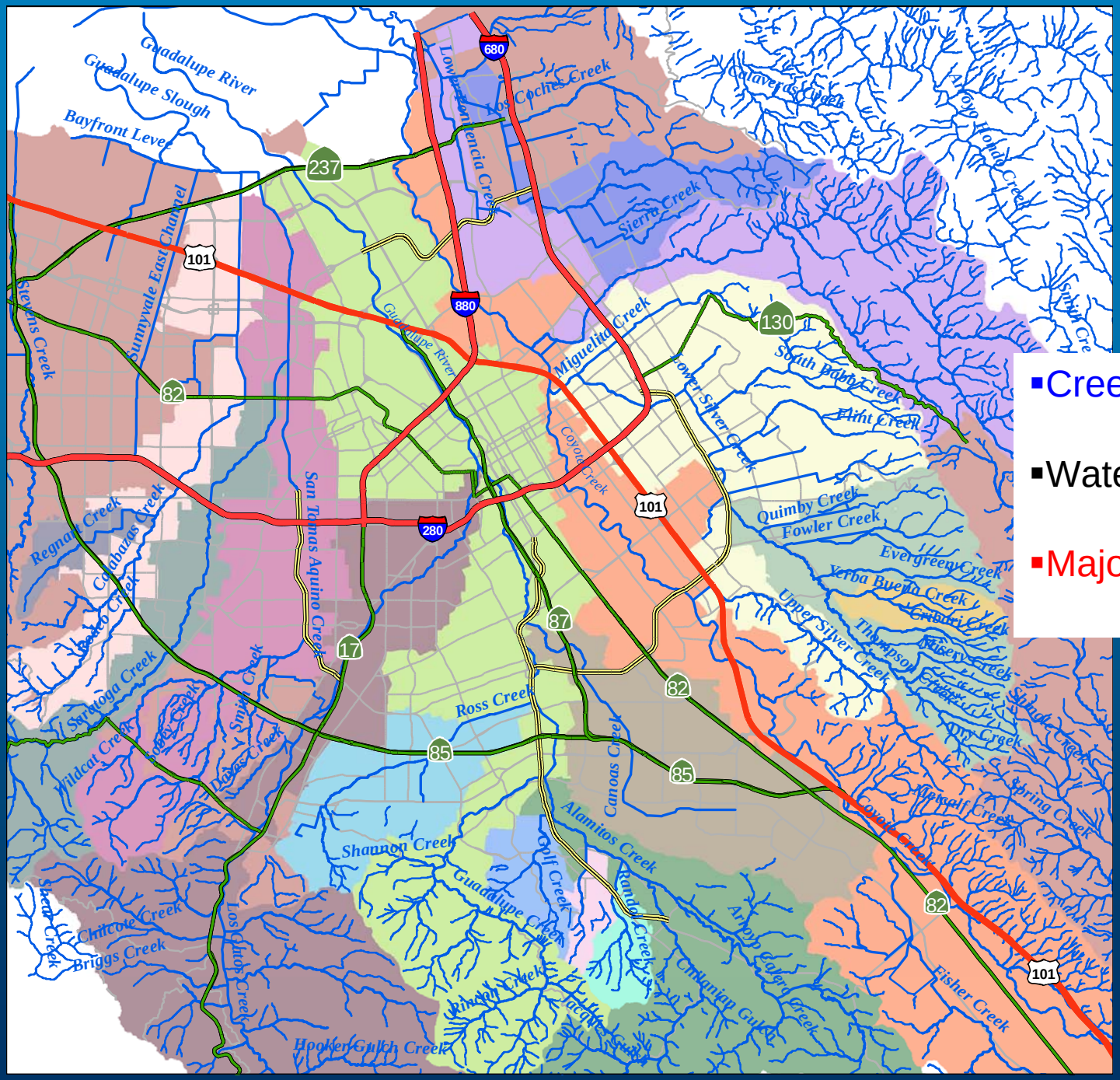
- San Jose Urban Service Boundary
- Recharge Ponds
- Coyote Subbasin – Recharge Area
- Santa Clara Subbasin –Confined Zone
- Santa Clara Subbasin –Recharge Area

Importance of Open Space

Greenline Protects Open Space

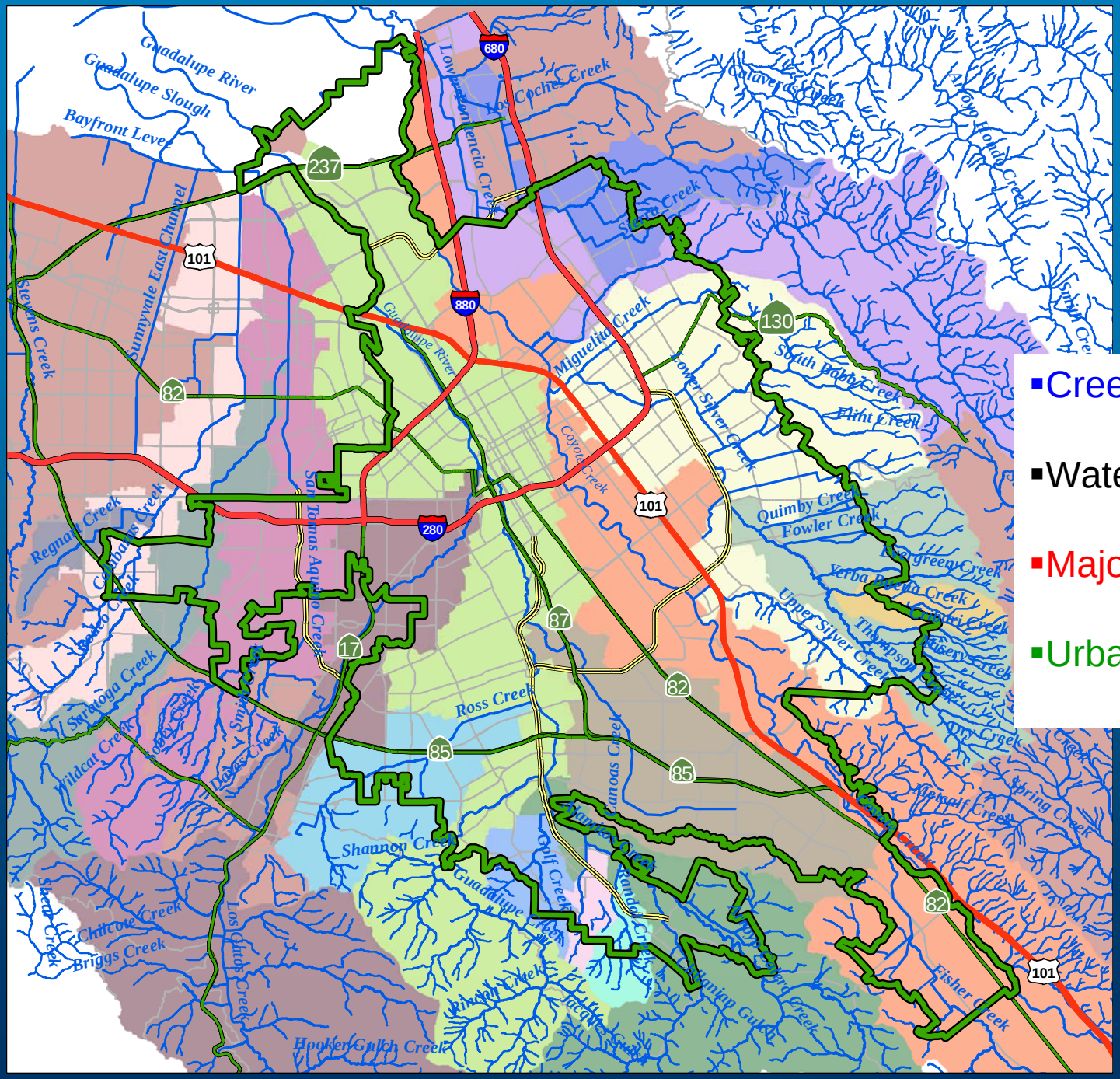


Watersheds Cross Boundaries



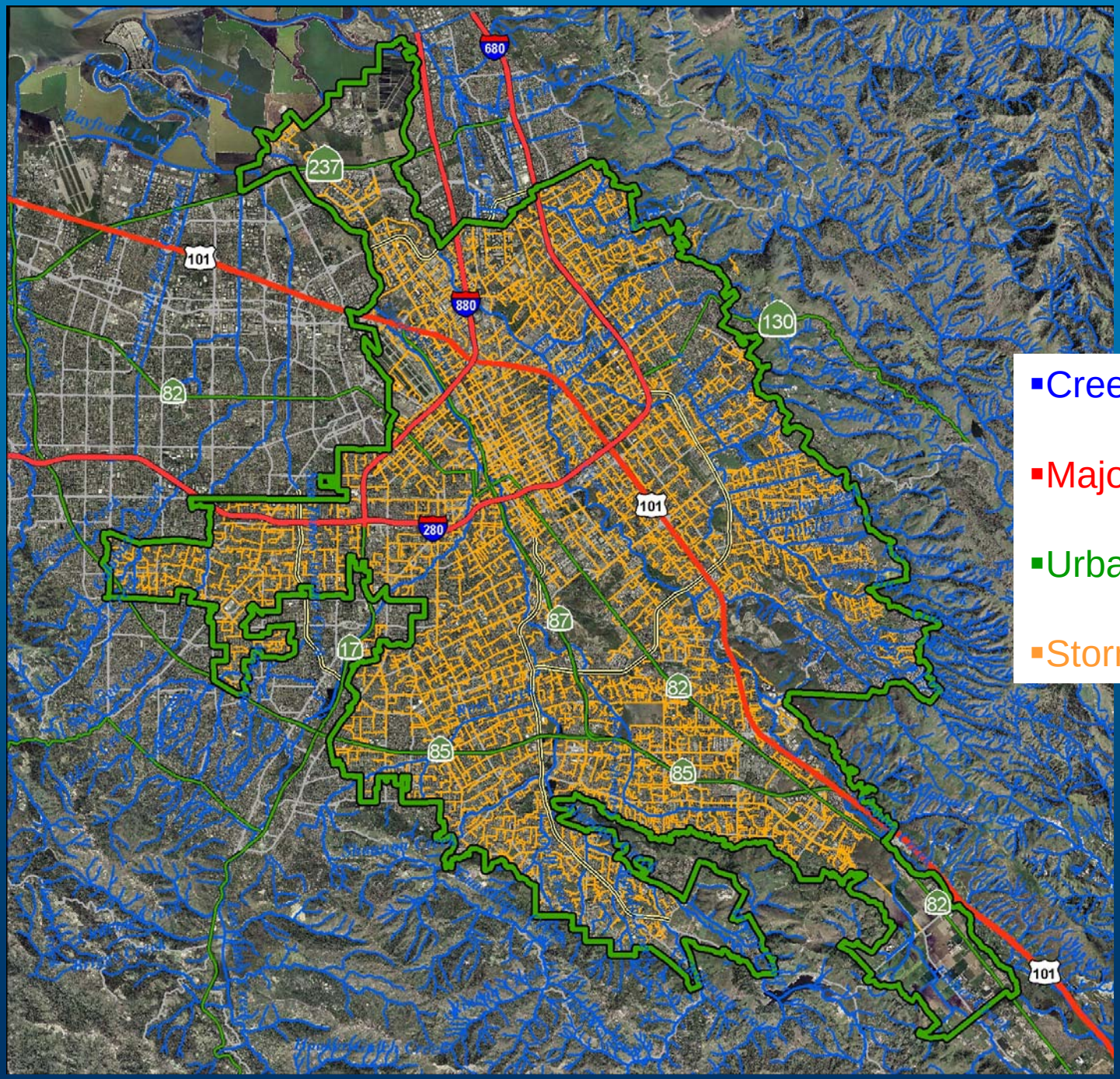
- Creeks
- Watersheds
- Major Roads

Watersheds Cross Boundaries



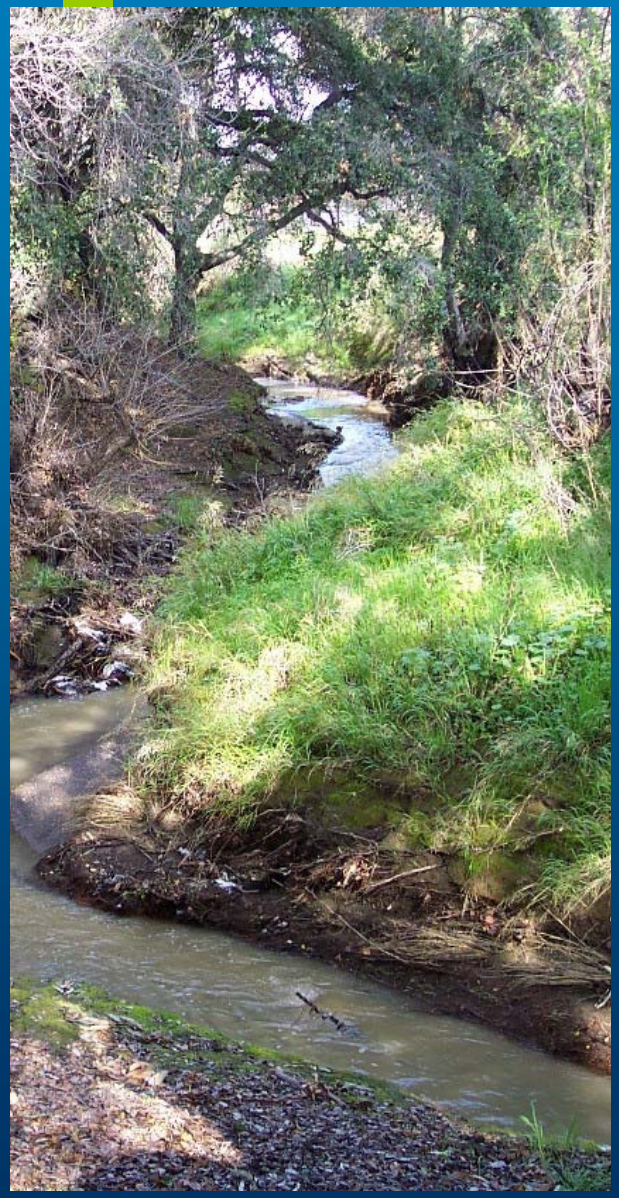
- Creeks
- Watersheds
- Major Roads
- Urban Growth Boundary

Watersheds Cross Boundaries

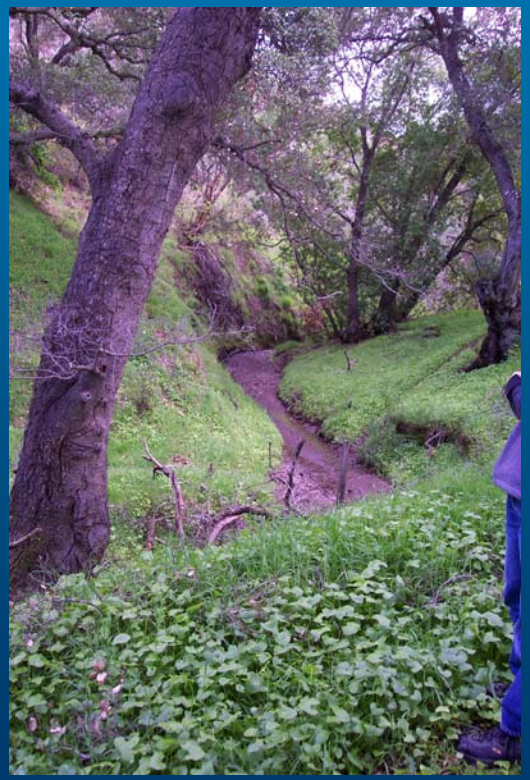


- Creeks
- Major Roads
- Urban Growth Boundary
- Storm Sewer Lines

The Many Jobs of our Creeks



Upper Watershed



Intermittent Stream

Ephemeral stream

Perennial Stream

Middle Watershed

Middle Watershed

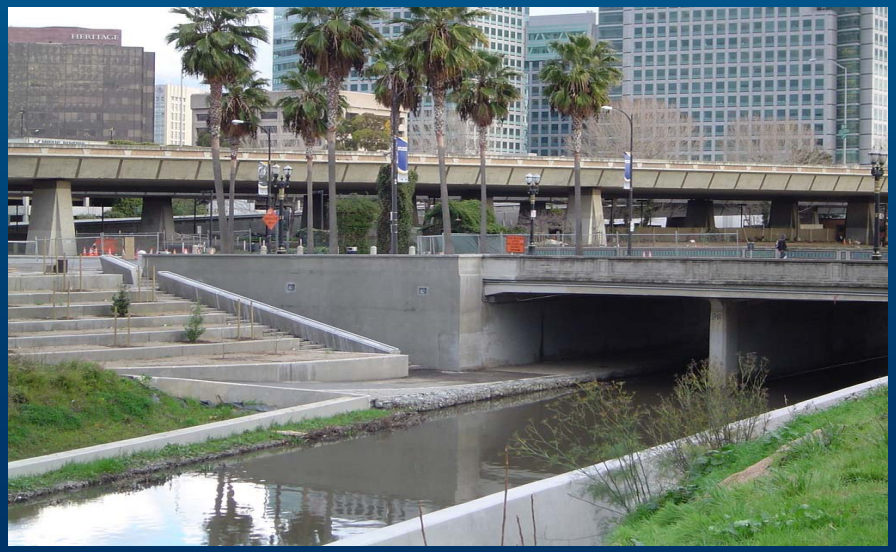
Ross

Quimby

Lower Watershed

Coyote Creek (101 & Watson Park)

Coyote Creek (Between Tasman & Montague)



Guadalupe River Park

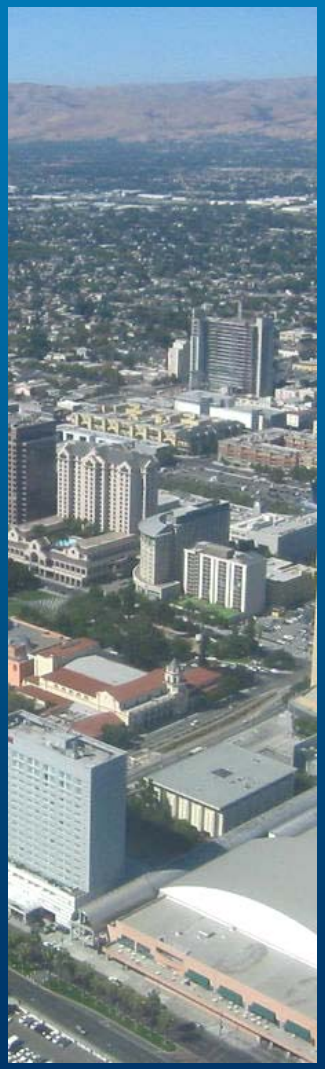
Outfalls to the Creeks

Yerba Buena Creek in upper watershed

Channel Incision on Yerba Buena Creek

Compromised Outfall Protection

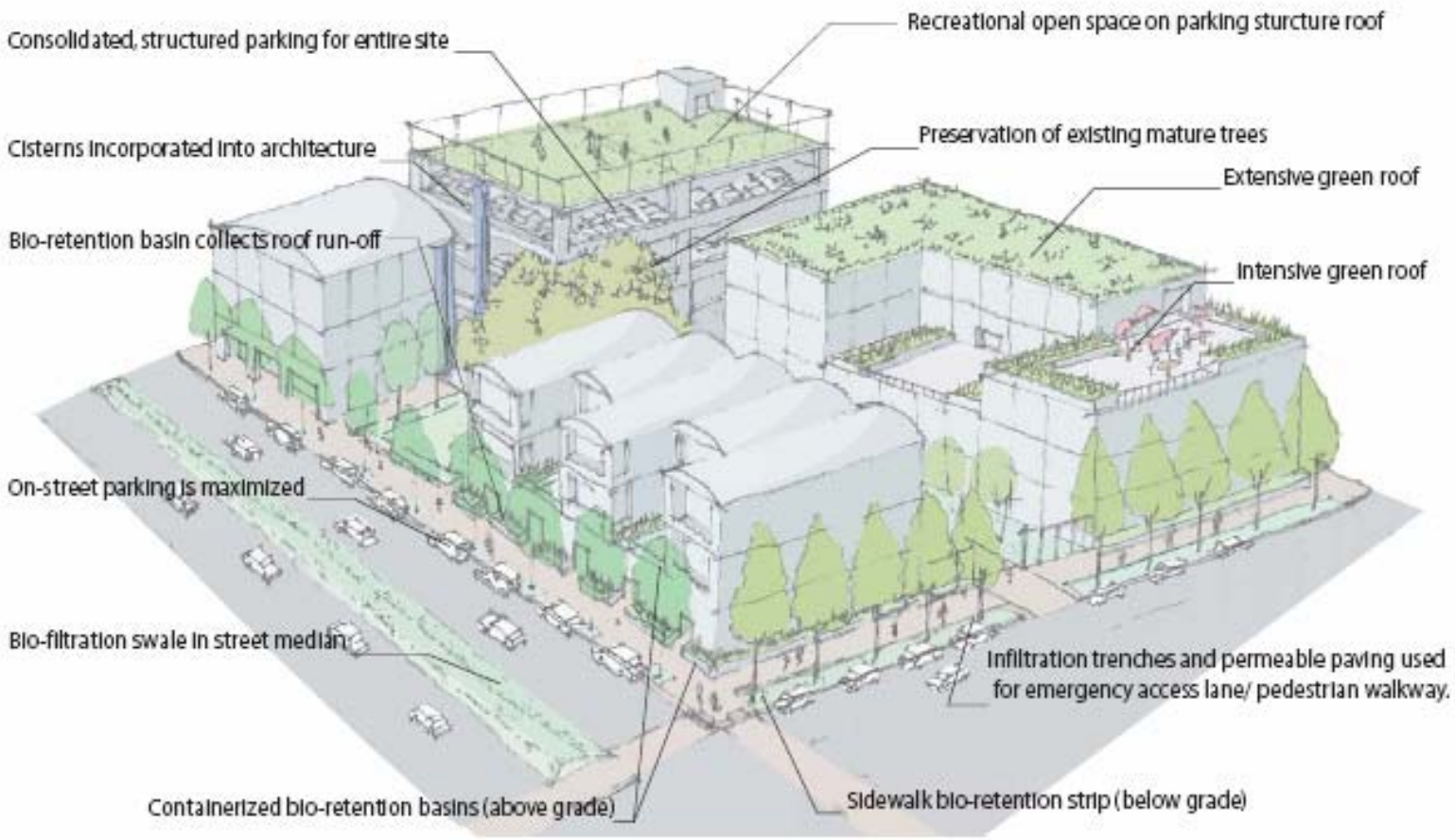
Density, Intensification & Water Quality



Above and Below: Images of North San Jose today and in its potential future

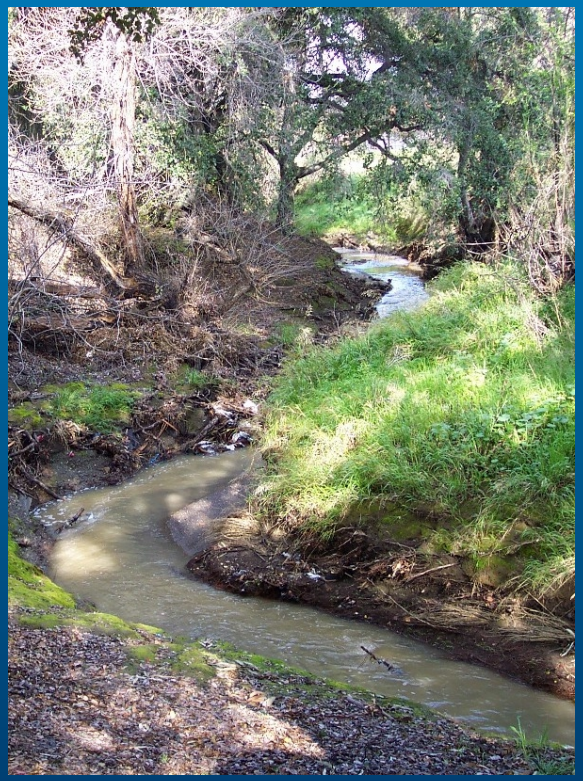
Images courtesy of Santa Clara Valley Transportation Authority (VTA) & Silicon Valley Action Network

Low Impact Development Reduces the Impact of Density



Keys to protecting water quality for the future

Preserving Open Space



Protecting Creeks

Using Low Impact Development