



City of San Diego

**Memorial Park
Infiltration Pit Project**

San Diego IRWMP Prop 50 Grant Program
December 5, 2012



**Municipal Permit
Requirements**

Municipal Storm Water Permit Requires BMP's
(Effective March 24, 2008)

City initiated a Tiered and Phased Approach to BMP implementation:

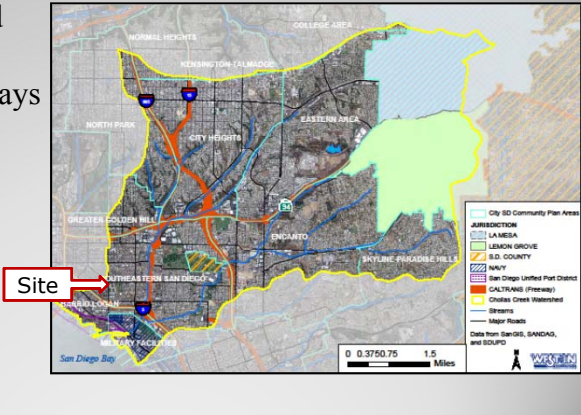
- Tier 1 – Education & Behavior Change
 - Radio Announcements & Targeted Street Sweeping
- ✓ ◦ Tier 2 – Source Control & Runoff Reduction BMP
 - Infiltration basins
- Tier 3 – Large Structural Treatment & Control BMP
 - Large Treatment & Control BMP

2

Chollas Creek Watershed

- TMDL for Dissolved Metals, Pesticides & Bacteria
- Highly urbanized
 - Residential
 - Roads, freeways
 - Industrial
 - Commercial
- Numerous pollutant sources



3



Dalbergia & Thor Project

Green Mall Porous Paving & Infiltration

- Cancelled due to infeasibility
- Numerous locations reviewed
- SDCWA suggested substitution in same watershed

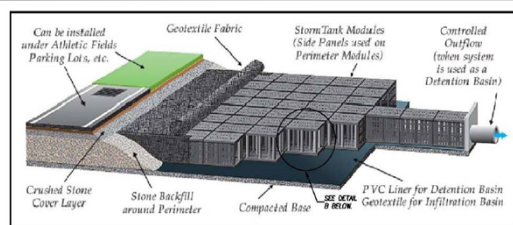


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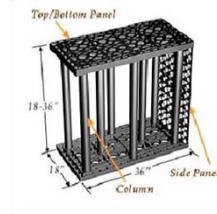


Memorial Park Concept

- Infiltrates urban runoff from impervious areas
- Design reduces runoff volume during storms



OPTION 1: DETAIL A - STORM TANK
NOT TO SCALE



OPTION 1: DETAIL B - STORM TANK
NOT TO SCALE

5



Memorial Park Budget

- Construction (Match) \$276,338
- Monitoring (Reimbursable) \$249,796
- Other Non-Grant Costs: \$388,771

- Total: \$914,904

6



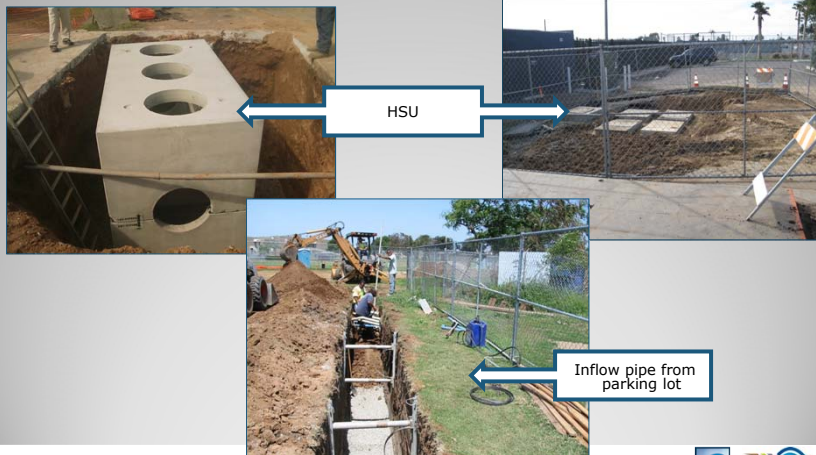
Memorial Schedule

- Concept Design began 2007
- Full Design Completed 10/2009
- Construction Began 07/2010
- Construction Completed 11/2010
- Monitoring Began 11/2010
- Report Completed 06/2012

7



Construction



8



Construction

Infiltration Pot with Geotextile liner



9



Construction



HSU



Infiltration Vault Modules

10



Construction



11



Memorial Park Findings

- Effectiveness Monitoring Useful
 - Runoff reduction, but not as much as expected
 - Site condition variability may impact wider use
- Lessons learned
 - Site Conditions Critical
 - Consider Maintenance in Design

12



Questions?

13

