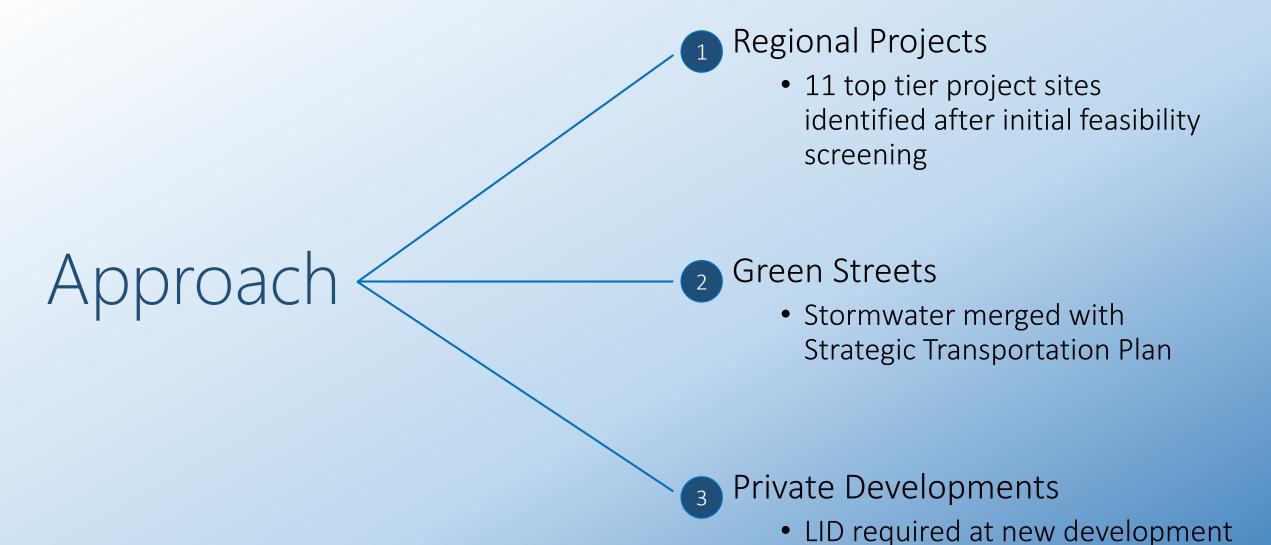


## Watershed Map

- Downey
- Lakewood
- Long Beach
- Lynwood
- Paramount
- Pico Rivera
- Signal Hill
- South Gate
- Los Angeles County Flood Control District



sites (public and private)

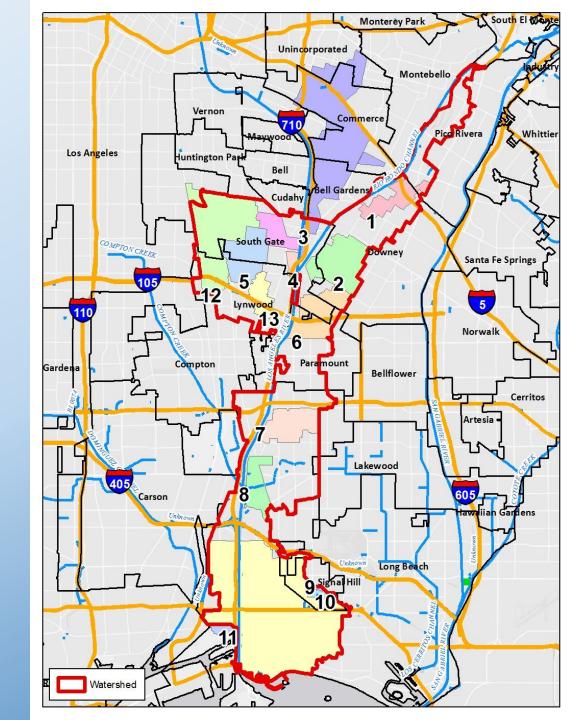
## Top Tier Regional Project Sites

Project Name	Jurisdiction	Estimated Cost	Status of Funding	Drainage Area (acres)	Rate of Infiltration	DAC
Apollo Park	Downey	\$12.7 million	Funding needed	1,200	12 in/hr at 10 feet, 13 in/hr at 35 feet	Yes
DeForest Park	Long Beach	\$7.5 million	Project nearing completion	875	N/A	Yes
Dominguez Gap	Long Beach	Completed	Project previously completed	618	N/A	No
Furman Park	Downey	\$15.56 million	Funding needed	661	18 in/hr at 10 feet; 51 in/hr at 35 feet	No
Long Beach MUST	Long Beach	\$35-58 million	Awarded \$28 million in Caltrans funding and over \$2 million from additional sources	12,000	N/A	Yes
Lynwood City Park	Lynwood	\$12 million	Funding needed	1,005	1.4 in/hr	Yes
Parque dos Rios	Lynwood, South Gate	\$11.6 million	Funding needed	700	35 in/hr	Yes
Signal Hill Park	Signal Hill	\$1.5 million	Funding needed	76	10.32 in/hr	No
Spane Park	Paramount	\$9 million	Funding needed	1,000	48 in/hr at 10 feet; 1.8 in/hr at 25 feet	Yes
Urban Orchard	South Gate	Additional \$5 million sought	Awarded \$845,000 in Proposition 1 funding from the RMC, \$25,000 from the Trust for Public Land, and nearly \$8 million from the State Water Resources Control Board's Proposition 1	4,000	0.1 in/hr	Yes
View Park (Creston)	Signal Hill	\$1.5 million	Funding needed	24	6.75 in/hr	No

## Top Tier Regional Project Sites

Project Number	Site		
1	Furman Park		
2	Apollo Park		
3	Urban Orchard		
4	Parque dos Rios		
5	Lynwood City Park		
6	Spane Park		
7	DeForest Park		
8	Dominguez Gap		
9	View Park (Creston)		
10	Signal Hill Park		
11	Long Beach MUST		

Project tributary areas are shaded



## Testing at Potential Regional Project Sites



Percolation testing conducted at Spane Park



Drilling conducted at Creston





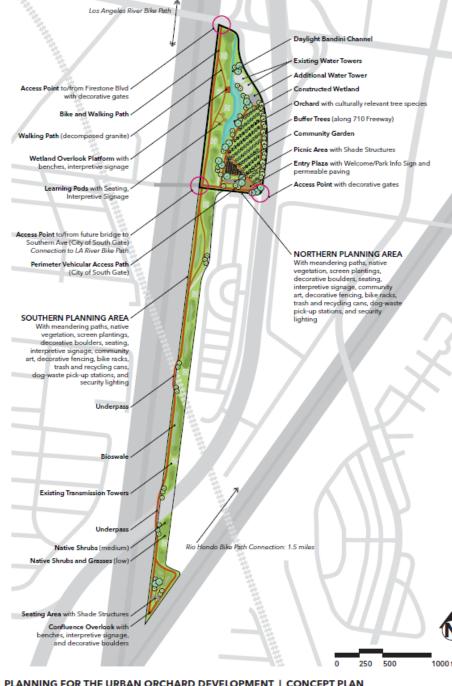
### DeForest Park

- 35 acres of restoration, 4 acres of enhancement
- Filtering capacity of 800-1,000 acre-feet per year
- Infiltration of 15-35 acre-feet per year

## Urban Orchard







PLANNING FOR THE URBAN ORCHARD DEVELOPMENT | CONCEPT PLAN
SAN GABRIEL AND LOWER LOS ANGELES RIVERS AND MOUNTAINS CONSERVANCY PROPOSITION 1 GRANT PROGRAM

## Long Beach MUST





## Green Street Examples – Soft-bottomed Tree Wells and Biofiltration Systems



Clark Street and Wright Road



Muriel Drive and Palm Avenue



Santa Fe Avenue and E 109th Street

## Strategic Transportation Plan

transportation corridors and identified priority locations that should be targeted for stormwater treatment



#### **Strategic Transportation Plan Final Report**

Submitted by

Cambridge Systematics, Inc.

Submitted to

**Gateway Cities Council of Governments** 

March, 2016







# LID Activities on Private Developments

An underground infiltration trench at a small site project in Signal Hill

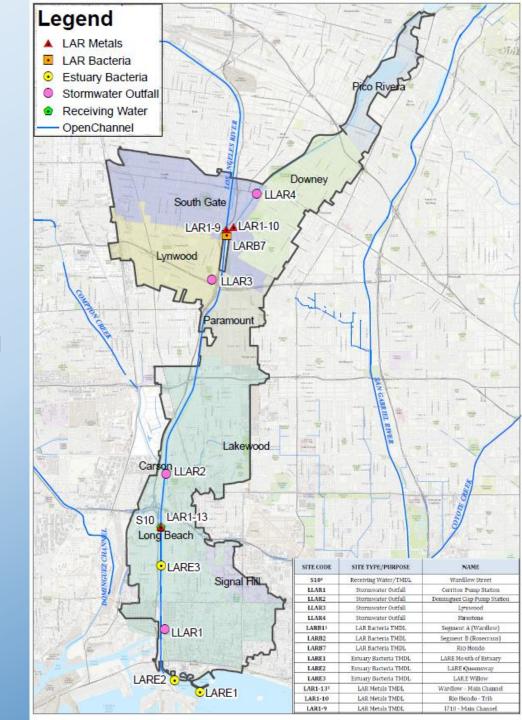
A flow-through planter box at a large site project in Signal Hill



173 stormwater projects have been installed in the Lower Los Angeles River Watershed since 2012.

## Monitoring

- CIMP developed and approved
- Monitoring under new permit implemented from 2015
- Non-Storm Water Outfall Surveys completed
- CIMP includes one receiving water monitoring site (S10) & four outfall sites
  - Permitting delayed installation of three outfall sites to third year
- Evidence suggests that receiving water quality (S10) is generally improving
- Toxicity not found at S10 monitoring site
- Harbor Toxics TMDL addressed by ultraclean sampling (S10) and High Resolution Mass Spectral Analyses; combined effort with upstream cities



## Public Outreach





Paramount Eco-Friendly Fair in 2018

## Conclusions

- The LLAR is implementing the WMP and making good progress
- As many as 20 more DeForest Park/Urban Orchard/Long Beach MUST-type projects may be needed; we are running out of usable space along the river
- Funding always presents a challenge