

AAPA Energy & Environment Seminar
Chicago, 2014



Stormwater Source Control to Treatment



Port of
LONG BEACH
The Green Port

Matt Arms
Assistant Director
Environmental Planning



Southern California

Dry Mediterranean Climate



San Pedro Bay

Receiving Water of Three Significant Water Sheds



Stormwater Program

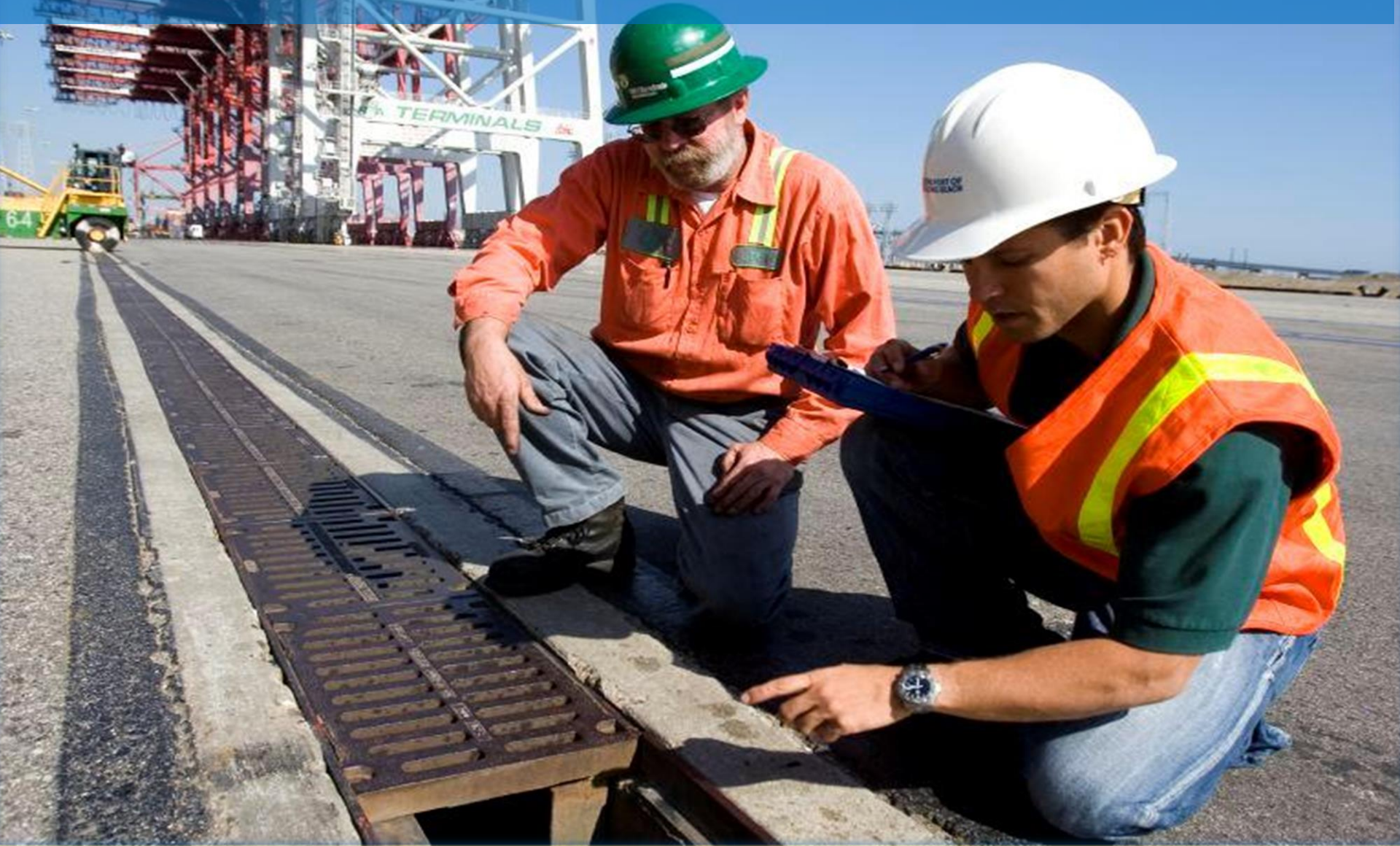
Municipal, Construction, Industrial & TMDLs



Holistic Approach

Single Industrial Permit For All Port Tenants

Division of Roles





Source Control

Housekeeping BMPs



Regional Monitoring



Regional Monitoring



Effluent Limits



Development In Progress

Piers G, S and Middle Harbor



CDS Unit

Stormwater Quality

Post Construction Guidance Manual





Low Impact Development



Low Impact Development

Anaheim Street

Litter Control





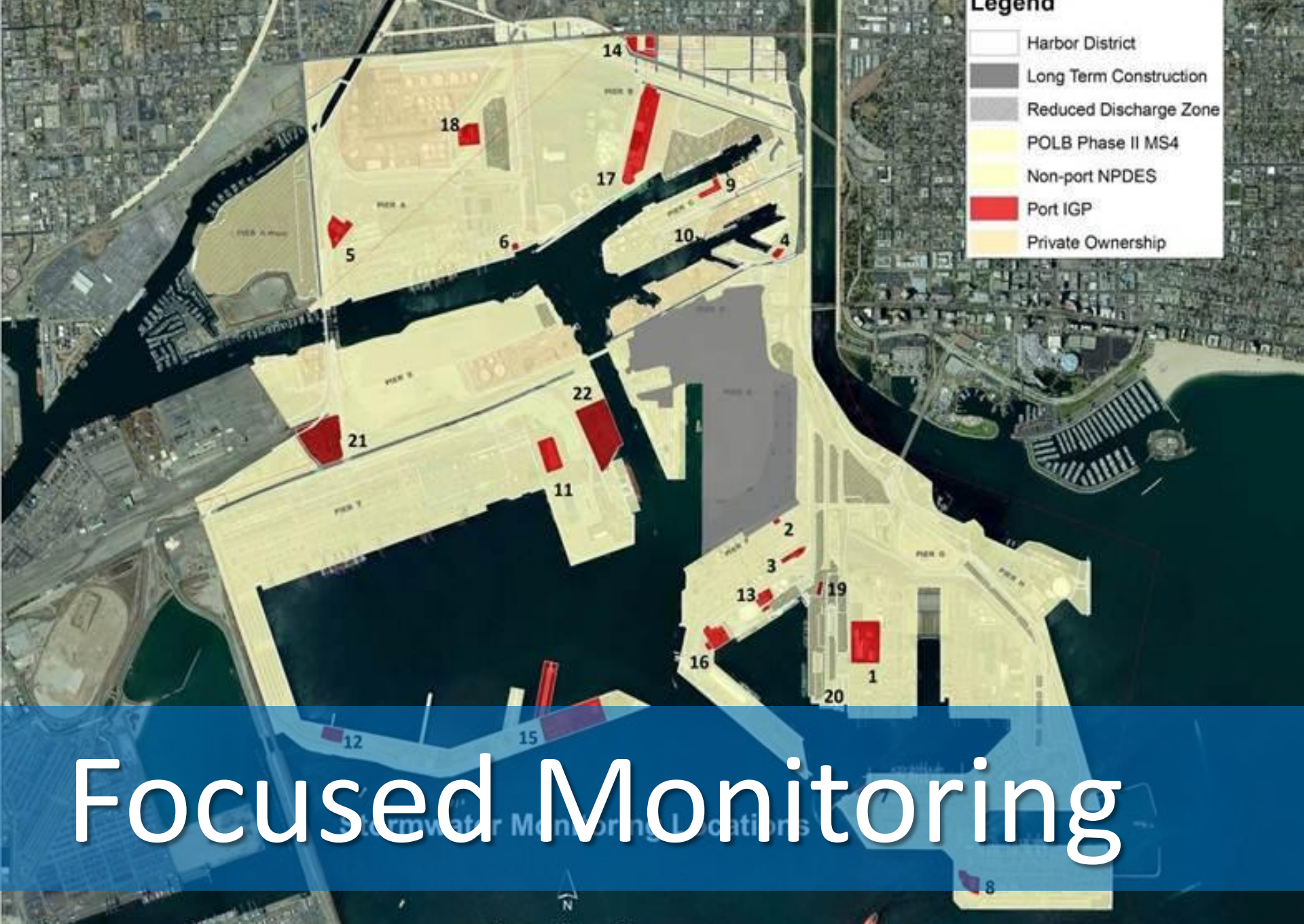
Pilot Projects

Stormwater Treatment



Moving Forward

Revamped Program





Source Control or Treatment?