

CASE STUDY STORMWATER MANAGEMENT

MTS TROLLEY MAINTENANCE YARD

SAN DIEGO, CA



PROJECT/PRODUCT DESCRIPTION:

San Diego Metropolitan Transit System (MTS) is one of Whitson CM's industrial clients. To assist the facility in complying with the Industrial General Permit, Whitson CM and California Filtration Specialists (CFS) came up with a decentralized solution to treat stormwater at each individual storm drain inlet.

The MTS Trolley Yard Maintenance Facility does not have standard storm drain inlet sizes. Because of this, Whitson CM and CFS designed a durable, plastic catch basin insert that was easily manufactured to different sizes. A LITMAT composed of LIDMIX has been installed in each unit. Additionally, each unit has a built-in sampling port to take a stormwater sample post-BMP. LIDMIX is a specialized media contained within a permeable geotextile fabric (LITMAT) that lets stormwater flow through the system at a rapid rate while particulate and soluble forms of the pollutants are filtered out of the runoff. It has been extensively tested in field and laboratory settings with the following results: 98% reduction in Lead, 97% reduction in Copper, and 64% reduction in Zinc.

PROJECT SOLUTION:

The catch basin inserts and LITMATS were easily installed in 20 storm drains at the facility in early 2017. Samples will be taken post-filter during this next stormwater year to assess the effectiveness of the LIDMIX catch basin insert design.

CLIENT NAME:
San Diego Metropolitan Transit System

PROJECT REFERENCE:
Sean-Ryan McCray
Environmental Health and Safety
Specialist
100 16th Avenue
San Diego, CA 92112
(720) 626-5919

YEAR:
2017

PROJECT SIZE:
20 Catch Basins

BENEFITS OF LIDMIX

Decentralized Treatment - Treat Runoff at the Source
Pollutant Removal Rates below IGP NALs for: Copper, Lead, Zinc, Aluminium, Iron, Nitrate as N, TSS, TN, TP
Extensively Tested in Field and Laboratory
Customize Size of LIDMAT
High Flow Media - Minimal Clogging
Low Cost Solution to Meet Water Quality Requirements

LOCAL LIDMIX DISTRIBUTOR:



California Filtration Specialists

11021 Via Frontera, Suite E

San Diego, CA 92127

T: (858) 705-6483

F: (858) 487-8355

www.cafiltrationspecialists.com

info@cafiltrationspecialists.com