

B.2 CATCH BASIN INSERTS**DESCRIPTION**

A catch basin insert is any device that can be inserted into an existing catch basin design to provide some level of runoff contaminant removal. Currently, there are many different catch basin insert models available, with applications ranging from trash and debris removal to carbon adsorption of aliphatic and aromatic hydrocarbons and heavy metals removal. Costs vary widely, ranging from about \$40 for a simple screen bag, to over \$3,000 for more complex, custom-engineered units. The most frequent application for catch basin inserts is for reduction of sediment, oil, and grease levels in stormwater runoff. These catch basin inserts should also have an overflow outlet, through which water exceeding the treatment capacity can escape without flooding the adjacent area.

ADVANTAGES

1. Provides moderate removal of larger particles and debris as pretreatment.
2. Low installation costs.
3. Units can be installed in existing traditional stormwater infrastructure.
4. Ease of installation.
5. Requires no additional land area.

LIMITATIONS

1. Vulnerable to accumulated sediments being resuspended at low flow rates.
2. Severe clogging potential if exposed soil surfaces exist upstream.
3. Maintenance and inspection of catch basin inserts may be required before and after each rainfall event, excessive cleaning and maintenance.
4. Available head to meet design criteria.
5. Dissolved pollutants are not captured by filter media.
6. Limited pollutant removal capabilities.

DESIGN CRITERIA

1. Calculate the flow rate of stormwater to be mitigated by the catch basin insert using the Los Angeles County Department of Public Works *Method for Calculating Standard Urban Stormwater Mitigation Plan (SUSMP) Flow Rates and Volumes Based on 0.75-inches of Rainfall*.
2. Insert device selected should be Best Available Technology for removing constituents of concern for the particular site.

APPENDIX B

BMP DESIGN CRITERIA

REFERENCES

1. The Center for Watershed Protection, Environmental Quality Resources and Loiederman Associates. 1997. *Maryland Stormwater Design Manual*. Prepared for: Maryland Department of the Environment. Baltimore, MD.
2. DEQ Storm Water Management Guidelines, Department of Environmental Quality, State of Oregon. <http://waterquality.deq.state.or.us/wq/groundwa/swmgmtguide.htm>
3. K. H. Lichten, June 1997. *Compilation of New Development Stormwater Treatment Controls in the San Francisco Bay Area*, Bay Area Stormwater Management Agencies Association, San Francisco, CA.

The following is a list of known locations where a Catch Basin Insert device was installed. The design of the installed device in each location may vary from what is recommended in this SUSMP due to its specific circumstances. Los Angeles County does not endorse nor warranty any design used in the locations herein. Each individual case may require that the design be tailored to perform properly.

Installed Location (City/Address)	Brand/Manufacturer	Owner/Client
Los Angeles: SE corner of 6 th St. & Bixel St.	Ultra-Urban Filter	City of Los Angeles
Los Angeles: NW corner of Union Ave. & 11 th St.	Fossil Filter	City of Los Angeles
Beverly Hills: E/S Palm Ave. N/o Gregory Way	Ultra-Urban Filter	City of Beverly Hills
Los Angeles: NE corner of 20 th St. & Maple Ave.	Not available	City of Los Angeles
Los Angeles: 1700 Wilshire Blvd. near Little St.	Drainpac	City of Los Angeles
Los Angeles: 2187 Riverside Dr.	Drainpac	Caltrans
Los Angeles: 4173 Engineering 1 Box 95153	Not available	UCLA
Los Angeles: 5360 W. Imperial Hwy	Drainpac	Caltrans
Los Angeles	Drainpac	Private

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Carson	Drainpac	Private
Wilmington	Drainpac	Private
Pasadena	Drainpac	Private
San Pedro: 425 S. Palos Verdes St.	Drainpac	Port of Los Angeles
El Monte: Valley Blvd & Johnson Ave.	Ultra-Urban Filter	City of El Monte
City of Industry	Drainpac	Private
Thousand Oaks	Drainpac	Private
Calabasas	Fossil Filter	City of Calabasas
Santa Monica : SE corner of Santa Monica Blvd. & 3 rd St.	Ultra-Urban Filter	City of Santa Monica
Los Angeles: 786 Mission Rd (Field Yard)	Not available	City of Los Angeles
Foothill Maintenance Station	Fossil Filter	Caltrans
Foothill Maintenance Station	Stream Guard	Caltrans
Las Flores Maintenance Station	Fossil Filter	Caltrans
Las Flores Maintenance Station	Stream Guard	Caltrans
Rosemead Maintenance Station	Fossil Filter	Caltrans
Rosemead Maintenance Station	Stream Guard	Caltrans