RAIN/STORMWATER TREATMENT PRODUCTS
LIST OF MANUFACTURERS & PRODUCTS

Rainwater Harvesting BMP Products

BMPs, such as infiltration pits and cisterns, can be tailored to harvest, treat and use rain/stormwater for non-potable uses, such as landscape irrigation (sub-surface and spray), toilet/urinal flushing, and clothes washing.

For more information on this strategy and a list of some vendors in the region, go to sustainablesm.org/runoff and click on left side, Rainwater Harvesting, then click Rain Barrel & Cistern Suppliers to learn more about the City’s program.

Proprietary Products:

- Oceansafe Inc., www.lithocrete.com/oceansafe
- Ozcon Water Harvesting, Jason Holloway, owner, 510 375 6381, jason.h@ozconbuilding.com www.ozconbuilding.com, specializing in modular underground water storage for landscape irrigation, as well as underground storm water management; eligible for LEED points and potentially huge savings on water bills.

Infiltration Pit BMP Filler Products

Visit the Code Requirements page at sustainablesm.org/runoff for more information on this strategy and a list of some vendors, or follow this direct link (or under Code Requirements, Infiltration Pit): smgov.net/uploadedFiles/Departments/OSE/Categories/Urban_Runoff/UR_Infiltration_Pit.pdf

This linked document is NOT updated regularly with new infiltration products and their vendors. Additional, recent product references are found in this document and this section.

- Not included in PDF, more recent entries:
  - ACO Construction & Building Products, StormBrixx, Geocellular stormwater management system, stormwater (plastic) retention and infiltration, www.acousa.com
  - California Filtration Specialist, D-Tanks, plastic boxes for storage, www.cafiltrationspecialists.com
  - Contech Engineered Solutions, www.ContechES.com, ChamberMaxx®, Corrugated Metal Pipe (CMP)
  - GreenBlue Urban, www.greenblue.com/stormwater-storage, sustainable urban drainage solutions, made from recycled plastic, box-shaped tanks for storing precipitation under a variety of urban surfaces, also used with street trees..
  - NDS, www.ndspro.com, Triton™ chambers; Flo-Well® chamber; local contact, www.oconnorsales.com
  - GRAF Stormwater Management, EcoBloc maxx and light products, available only from RainHarvest Systems, www.rainharvest.com, plastic components


Permeable Paving/Pavers BMP Products

- Acker-Stone: www.ackerstone.com
- Advanced Pavement Technology: www.advancedpavement.com
- Atlantis Stormwater Management Solutions: www.atlantiscorp.com.au
- California Filtration Specialist, PaveDrain and Ecoraster, www.cafiltrationspecialists.com
- California Nevada Cement Promotion Council (permeable concrete): www.cnpc.org
- Contech, UrbanGreen paving systems: www.contechstormwater.com
- Ground Solutions: www.groundsolutions.ca
- Invisible Structures: www.invisiblestructures.com
- National Asphalt Pavement Association (porous asphalt): www.hotmix.org
- NDS: www.ndspro.com; Tufftrack™ Grass & Gravel Paver; EZ Roll™ and Honor Roll™ Gravel Pavers
- ORCO Block & Hardscape, www.orco.com, under Paving Stones, Environment, Cascada/Corte, Aqua Bric, Turfstone
- Permapave: www.permapave.com
- RK Manufacturing: www.rkmfg.com
- Soil Stabilization Products Co., Inc.: www.sspco.org
- Eco-Rain Tank Systems of America: contact@ecoraintank.com, www.ecoraintank.com
- Uni-Group USA: www.uni-groupusa.org
- Xeripave, LLC: www.xeripave.com

The Code Requirements page on our website sustainablesm.org/runoff has more information on this strategy. Link.

Filtering BMPs (soluble and gross pollutants)

- ADS Bayfilter™ www.ads-pipe.com www.baysaver.com
- AquaShield: Aqua-Filter™ www.aquashieldinc.com
- BioClean Environmental Services, Suntree Technologies Inc.: MWS-Linear Modular Wetland www.biocleanenvironmental.net
  3rd PARTY VERIFICATION-CERTIFICATION:
  MWS-Linear Modular Wetland:
  Washington State DOE TAPE GULD for Basic Treatment, for Phosphorus Treatment, for Enhanced Treatment
- California Filtration Specialist, FocalPoint bio-filtration and retention, www.cafiltrationspecialists.com (Fabco Industries)
  3rd PARTY VERIFICATION-CERTIFICATION:
  Meets flow and water volume capture requirements specified by State MS4 permit via an expandable underdrain.
  TAPE certification meeting all water quality equivalency requirements.
Cost-effective alternative to other biofiltration systems

- Clear Creek Systems, Inc.: [www.clearcreeksystems.com](http://www.clearcreeksystems.com)
  
  **3rd PARTY VERIFICATION-CERTIFICATION:**
  - CDS: TARP Tier I certification for 50% TSS removal by NJ DEP and Tier II verification for 80% TSS removal by NJ CAT
  - WA DOE General Use Level Designation for Pretreatment
  - Media Filtration Unit: TARP Tier I (lab) and II (field) verification for 80% TSS removal from NJ CAT and certification by NJ DEP at 18 gpm/22” cartridge
  - WA DOE General Use Level Designation for Basic Treatment at 1 gpm/22” cartridge

  
  **3rd PARTY VERIFICATION-CERTIFICATION:**
  - Sacramento Stormwater Quality Partnership approval at 2 gpm/sf
  - TARP Tier I (lab) and II (field) verification for 80% TSS removal from NJ CAT and certification by NJ DEP at 2 gpm/sf
  - WA DOE General Use Level Designation for Basic Treatment at 1 gpm/sf

- Contech Engineered Solutions, Vortechnics®: VortFilter™, VortSentry™
  
  **3rd PARTY VERIFICATION-CERTIFICATION:**
  - Vortechs: TARP Tier I certification for 50% TSS removal by NJ DEP. Testing for Tier II verification at 80% TSS complete and verification by NJ CAT pending
  - WA DOE General Use Level Designation for Pretreatment
  - VorSentry: TARP Tier I certification for 50% TSS removal by NJ DEP

- ecoStorm® plus, Royal Environmental Systems, Inc., [www.royalenterprises.net](http://www.royalenterprises.net), removal of soluble pollutants and gross solids from hydro-dynamic separation


- Filterra®: Bioretention (tree well) System, [www.americastusa.com](http://www.americastusa.com)
  
  **3rd PARTY VERIFICATION-CERTIFICATION:**
  - Washington State Department of Ecology TAPE/TARP for TSS, oil-grease, and enhanced dissolved metals

- Hydro International: Hydro Up-Flo Filter®, available through KriStar (below)

- Hydroworks: Hydroguard, Hydrofilter, Hydrobox; separation and filtering systems [www.hydroworks.com](http://www.hydroworks.com)
  
  **3rd PARTY VERIFICATION-CERTIFICATION:** NJDEP since 2009

- Imbrium Systems Corp.: Jellyfish membrane filter, Stormceptor and Sorbtive Media system, [www.imbriumsystems.com](http://www.imbriumsystems.com)
  
  **3rd PARTY VERIFICATION-CERTIFICATION:**
  - Jellyfish: NJCAT-- NJDEP, and Pilot Level designation by Washington Dept of Ecology, WADOE
  - Stormceptor: NJCAT—NJDEP; only hydrodynamic separator to have an "inline" (or "online" in New Jersey) certification
  - SorbtiveFILTER and SorbtiveMedia: Maryland Dept of Environment

- KriStar Enterprises: FloGard® PERK FILTER (Media Filtration Device), Up-Flo Filter®, [www.kristar.com](http://www.kristar.com)
  
  **3rd PARTY VERIFICATION-CERTIFICATION:**
  - Downstream Defender – NJ DEP Interim 2 certification, Washington DOE GULD for TSS
  - Dual Vortex Separator – NJ DEP Interim 2 certification
  - Up-Flo Filter – NJ DEP Interim 1, Washington DOE PULD for Basic
Third Party Verification-Certification

GULD: General Use Level Designation; this is the final certification level; Washington State Department of Ecology (DOE), which runs and oversees and approves the TAPE program. There are three Levels of approvals through DOE, PULD (Pilot Use designation), CULD (Conditional Use level Designation) and GULD (General Use Designation).


TARP stands for Technology Acceptance Reciprocity Partnership (formed by the states of California, Illinois, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, and Virginia)
http://www.dep.state.pa.us/dep/deputate/pollprev/techservices/tarp/
www.njcat.org/verification/Verifications_search.cfm
http://www.state.nj.us/dep/dsr/bscit/CertifiedMain.htm

Sacramento program web site:
http://www.sacramentostormwater.org/SSQP/development/proprietary.asp

Environmental Technology Verification:
http://www.epa.gov/nrmrl/std/etv/vt-wqp.html#SWSATD

University of New Hampshire Stormwater Center
http://www.unh.edu/erg/cstev/

NJCAT ---- is a non-profit group that works for NJDEP, and under their direction to perform the verification of data/testing submitted by technologies. Hence--New Jersey Corporation for Advanced Technology (NJCAT)

NJDEP --- sets the regulations, and takes the verification information from NJCAT and certifies it as it relates to the State of NJ stormwater regulations, which may differ from other TARP states.

Plant/Tree Type Products:  Wetland (artificial) and Biofilter/Bioretention (Tree) modular-type Systems:
  o  Filterra®, bioretention (tree well) system, www.contech-cpi.com
  o  Modular Bioretention System, Kristar, www.kristar.com
  o  Modular Wetland System, BioClean Environmental Services www.biocleanenvironmental.net, 3rd Party Certification: MASS DOT; Washington State Dept of Ecology Technology Assessment Protocol – Energy (TAPE) for TSS, copper and zinc for Basic (CULD) and Enhanced (PULD) treatment
Screening-Separation BMPs (inc. vortex-like, gross pollutants)

- AquaShield: Aqua-Swirl™ Concentrator  www.aquashieldinc.com
- BioClean Environmental Services, Suntree Technologies Inc.: Nutrient Separating Baffle Box  www.biocleanenvironmental.net

3rd PARTY VERIFICATION-CERTIFICATION:
- Nutrient Separating Baffle Box: NJCAT
  - San Francisco Water Board Full Capture
  - State of Hawaii
  - San Diego Regional Water Quality Board (for Nutrient and Metals TMDLs) with Up Flow Filter
  - MWS-Linear Modular Wetland:
    - Washington State DOE TAPE GULD for Basic Treatment, for Phosphorus Treatment, for Enhanced Treatment

- CrystalStream Technologies: CrystalStream™  www.crystalstream.com
- CSR Hydro Conduit: Stormceptor®  www.csrstormceptor.com
- Fresh Creek Technologies: Netting TrashTrap®  www.freshcreek.com
- Hydro-International: Downstream Defender®  www.hydro-international.biz
- Imbrium Systems Corp.: Stormceptor Hydrodynamic Separator (Rinker Materials distributor), www.imbriumsystems.com
- KriStar Enterprises: Dual-Vortex™  www.kristar.com

Insert Filter, Screen BMPs (for catch basins and storm drains, curb or drop-in, new or retrofits, different shapes such as circular, 4-sided, trash, heavy metals, hydro-carbons; NOTE: full-capture category for Southern California Santa Monica Bay Marine Debris TMDL, State Water Resources Control Board SWRCB)

- AquaShield: Aqua-Guard™, www.aquashieldinc.com
- BioClean Environmental Services, Grate/Curb Inlet Skimmer, www.biocleanenvironmental.net, Hawaii, San Diego County, Riverside DOT, San Francisco Water Board Full Capture
Bio Clean Catch Basin Media Filters with BioMediaGREEN: San Diego Regional Water Quality Board (for Nutrient and Metals TMDLs)

- Carson Industries LLC: Capture Flow, [www.carsonind.com](http://www.carsonind.com)
- CleanWay Environmental Partners, Inc., [www.cleanwayusa.com](http://www.cleanwayusa.com), 800.723.1373
- ClearWater Solutions: ClearWater BMP, [www.clearwaterbmp.com](http://www.clearwaterbmp.com) (under construction)
- Coanda, Inc., Curb Inlet Filter, 714.389.2113, [www.coanda.com](http://www.coanda.com)
- CSR Hydro Conduit: Stormceptor®, [www.csromptceptor.com](http://www.csromptceptor.com)
- Ecology Control Industries: CleanScreen
- Engineering Safety Products, LLC (ESP): CleanScreen™, HighScreen™, MeasureScreen™
- Fabco Industries Inc.: StormBasin®, [www.fabco-industries.com](http://www.fabco-industries.com)
- filtrexx, [www.filtrexx.com](http://www.filtrexx.com), catch basin product, StormExx, and above ground filter BMP, EnviroSoxx, removing high percentage of soluble pollutants., 805.888.9389, Sean.
- Global H2o Solutions, [www.gh2os.com](http://www.gh2os.com), website under construction, screen and filter
- Hydrophix (AbTech): Ultra Urban Filter®, Smart Sponge®, SWAT (Storm Water Anti-microbial Treatment) unit, [www.hydrophix.com](http://www.hydrophix.com)
- KiStar Enterprises: FloGard™ (Fossil Filter), [www.kristar.com](http://www.kristar.com)
- Revel Environmental Manufacturing Inc.: Triton Filter™, [www.remfilters.com](http://www.remfilters.com)
- StormTek, [www.stormtekcps.com](http://www.stormtekcps.com)
- Stormwater Filters Corp.: Hydro-Master/Coanda systems, [www.stormwater-filters.com](http://www.stormwater-filters.com)
- Storm Water Systems: Hydro-Cartridge®
- Streamhawk Inlet Protection, GreenVision Partners, [www.greenvisionpartners.com](http://www.greenvisionpartners.com)
- United Storm Water, Inc.: DrainPac®, automatic retractable screen, certified by the County of Los Angeles Public Works Engineering Group, the Orange County Transportation Authority, the Association of Bay Area Governments, and the San Francisco Estuary Partnership, [http://unitedstormwater.com/index.html](http://unitedstormwater.com/index.html)
- West Coast Storm , Inc.: automatic retractable screen, [www.wcstorm.net](http://www.wcstorm.net)

**Anti-Microbial Systems**

- Clearwater Solutions: A S Filtration™ using Pathex™ Filter Medium [www.asfiltermedia.com](http://www.asfiltermedia.com)
- Hydrophix (AbTech): Ultra Urban Filter®, Smart Sponge®, SWAT (Storm Water Anti-microbial Treatment) unit, [www.hydrophix.com](http://www.hydrophix.com)
- Transpo Industries Inc., StormSafe™ HF10 and FebGuard, [www.transpo.com](http://www.transpo.com)

*Any anti-microbial system, product must be registered in California with the Department of Pesticide Regulation. Pls check on any product status before use; ask the manufacturer for legal documentation. You can also check this website: [http://www.cdpr.ca.gov/dprdatabase.htm](http://www.cdpr.ca.gov/dprdatabase.htm)*

**Full Capture Trash Systems (State Water Resources Control Board (SWRCB certification):**

- ACF Environmental, TrashGuard, [www.acfenvironmental.com](http://www.acfenvironmental.com)
- StormTek, [www.stormtekcps.com](http://www.stormtekcps.com)
- Global H2o Solutions, [www.gh2os.com](http://www.gh2os.com), website under construction, screen and filter
- KiStar Enterprises, [www.kristar.com](http://www.kristar.com), Full Capture Certification, SWRCB
- UltraTech, Ultra Trash & Debris Screen, [www.stormwaterproducts.com](http://www.stormwaterproducts.com), Full Capture screen
- United Storm Water, Inc., [www.unitedpumping.com](http://www.unitedpumping.com), Connector Pipe Screen (CPS), SWRCB, Los Angeles and San Francisco Bay Regional Boards
BioClean Environmental Services, Suntree Technologies Inc.
  - Watergate® Full Capture Articulated Retractable Screen
  - Nutrient Separating Baffle Box [www.biocleanenvironmental.net](http://www.biocleanenvironmental.net)

3rd PARTY VERIFICATION-CERTIFICATION:
  - Nutrient Separating Baffle Box: NJCAT;
  - San Francisco Water Board Full Capture;
  - State of Hawaii;
  - San Diego Regional Water Quality Board (for Nutrient and Metals TMDLs) with Up Flow Filter

### Downspout and Roof Filters/Inserts
- BioClean Environmental Services, Downspout Filter, 760.433.7640 [www.biocleanenvironmental.net](http://www.biocleanenvironmental.net), IAMPO Approval
  - IAMPO (International Association of Plumbing and Mechanical Officials), LADBS (City of Los Angeles Department of Building & Safety)
- Revel Environmental Manufacturing Inc.: RFD Roof Drain Filter, [www.remfilters.com](http://www.remfilters.com)
- Stormwater Solutions LLC, Downspout Insert, 818.905.7582, [www.stormh2osolutions.com](http://www.stormh2osolutions.com)
- SuperFlo, Hydroscreen LLC, [www.hydroscreen.com](http://www.hydroscreen.com)

### General BMP Products
- BMP Store: [www.bmpstore.com](http://www.bmpstore.com)
- Ultra Tech: [www.stormwater-products.com](http://www.stormwater-products.com)

**NOTE:** The City neither endorses nor approves any of the manufacturers, their products, views or policies. This List is neither inclusive nor comprehensive. The City is not responsible for the (in)accuracy of the information found in this List, which is based upon the most recent brochures on file with the City’s Watershed Management Coordinator or on the Web. Check directly with manufacturers for the most recent information.

To provide more up-to-date information or to add manufacturers and products, please contact the City’s Coordinator, 310.458.8223, [neal.shapiro@smgov.net](mailto:neal.shapiro@smgov.net) or visit [sustainablesm.org/runoff](http://sustainablesm.org/runoff)