

APPENDIX A

Baseline BMP's for Priority COC and Related Sources

Baseline BMP's for Priority COC and Related Sources

Source #	Priority Sources	Cover		Containment										Prevention							Good Housekeeping					Administrative			
		Store/Conduct material/activity Inside	Cover Activity/material	Use designated areas for activity, clean up or loading	Berm activity area or direct run on	Provide secondary containment	Provide drip plans, etc. to collect leaks/spills	Clean floor mats, etc. indoors	Properly dispose of process or wash water.	Immediately clean up spills with dry methods	Keep animals out of creeks	Wash vehicles and equipment in designated areas	Maintain spill clean up material/equipment readily available.	Properly store and dispose of green waste	Properly store and dispose hazardous material/chemicals	Schedule activity in dry weather	Label containers and maintain up-to-date inventory	Drain fluids from automobile	Provide signage for storm drains, materials storage, etc.	Properly manage pesticide/fertilizer use	Provide vegetation cover	Protect Storm drains	Practice water conservation	Inspect activity/storage area regularly	Clean up regularly with dry methods	Clean trash disposal areas	Train employees	Develop & Implement Spill Prevention Plan	Develop & Implement SWPPP
	parking facilities																												
Industrial Facilities																													
26	Chemical and allied products	√	√	√	√	√			√	√			√		√		√		√					√	√		√	√	√
27	Fabricated metal	√	√	√	√	√			√	√			√		√		√		√					√	√		√	√	√
28	Primary metal		√		√	√			√	√			√		√		√		√					√	√		√	√	√
32	Motor freight	√	√	√	√	√	√		√	√		√		√		√	√	√					√	√	√	√	√	√	√

APPENDIX B

Preliminary BMP Siting Criteria

City of San Diego
Interim Site Selection Guidelines and Sizing Criteria
Road and Curbside Infiltration Planter and Pervious Pavement
Prepared by CValdo Corporation
March 9, 2007

The following guidelines provide general rules of thumb for site selection and sizing of infiltration planters and pervious concrete or porous asphalt paving. The intent of the guidelines is to provide a starting point for planners and design engineers when infiltration of flows within the City road right-of-way or parking areas is desired. In all cases a site specific geotechnical evaluation should be performed to establish the suitability of the local soils for infiltration. The design of the infiltration facility and the permissible infiltration volume may deviate from these guidelines depending on site specific conditions established during the geotechnical evaluation.

General Site Selection and Sizing Criteria

1. Infiltration is not to be used where expansive soils would damage existing improvements. In cases where pervious pavement or infiltration planters are desired in areas with expansive soils, an impermeable membrane placed beneath an engineered underdrain system may be incorporated into the design.
2. In areas where groundwater beneficial uses are specified in the Basin Plan, infiltration shall not be used unless effective source control BMPs are utilized in the contributing drainage area.
3. The seasonal high groundwater mark must be a minimum of 3 feet below the bottom of the infiltration planter or the base material of the pervious pavement.^(b) In cases where groundwater beneficial uses are noted in the Basin Plan this distance must be at least 10 feet.^(d)
4. Bedrock should be a minimum of 3 feet below the bottom of the infiltration planter or the base material of the pervious pavement.^(b) In locations where bedrock is closer than 3 feet, a subdrain system may be utilized or the bedrock may be scarified down to reach the 3 foot mark.
5. Infiltration planters and pervious pavement shall be located a minimum of 100 feet horizontally from any water supply wells.^(d)
6. Soils should have a minimum infiltration rate of 0.5 inches per hour 3 feet below the bottom of the infiltration planter or the base material of the pervious pavement.^(c) In locations where this rate is not achieved, engineered subsurface soils and/or a subdrain system may be utilized.
7. Permissible infiltration volume is to be determined by calculating the natural infiltration that would occur within the infiltration planter or pervious pavement tributary area assuming natural conditions, that is, no impervious surfaces. It is recommended that this volume be

determined by calculating the initial abstraction value, I_a , according to the SCS unit hydrograph method. The formula for calculating $I_a^{(e)}$, measured in inches, is:

$$I_a \text{ (measured in inches)} = 0.2 \times S$$

$$S = (1000 / CN) - 10$$

CN = SCS runoff curve number based on land use and soil type for natural condition

The infiltration volume is then calculated as:

$$V = (I_a / 12) \times A$$

Where:

V = infiltration volume measured in cubic feet

$I_a / 12$ = initial abstraction in inches divided by 12 to convert units from inches to feet

A = tributary area to infiltration device measured in square feet

8. The minimum infiltration planter and pervious pavement setback from building foundations should be 10 feet downgradient or sidegradient and 100 feet upgradient. Where adjacent buildings have below grade structures, the minimum setback should be 100 feet in any direction.
9. Infiltration planters and pervious pavement should not be used in the vicinity of known slope stability problems.
10. Infiltration planters and pervious pavement should not be used within 100 feet of downgradient slopes steeper than four horizontal to one vertical.
11. Infiltration planters and pervious pavement should not be used in or adjacent to areas known to have a problematic high groundwater table or other groundwater related problems unless mitigation measures are proposed that will improve the existing condition and prevent exacerbation of the problems due to infiltration.
12. Infiltration planters and pervious pavement are intended to infiltrate runoff from road, curbside and parking areas typically associated with automobile use. In no case shall infiltration planters or pervious pavement be utilized as a treatment BMP within industrial sites unless pretreatment has removed the industry generated pollutants prior to infiltration.

Infiltration Planter Specific Criteria

1. A sedimentation forebay should be utilized to provide an area for sediments to accumulate and be collected.

2. Infiltration planters shall not be used on roads where traffic exceeds 15,000 ADTs.^(d)
3. In order to simulate natural infiltration conditions, planter spacing should be such that the total drainage area to a given planter is minimized. That is, it is more desirable to have a higher number of smaller planters each capturing a smaller tributary runoff volume, than a fewer number of larger planters each capturing a larger tributary runoff volume.
4. Where the infiltration planter is constructed adjacent to an existing fire hydrant, the fire hydrant shall be relocated to 2 feet inside of the new face of curb and constructed on a concrete slab. No vegetation shall be planted within 3 feet of the fire hydrant.
5. Trees shall not be planted within infiltration planters closer than 10 feet from sewer laterals or sewer main lines.

Pervious Pavement Specific Criteria

1. Pervious pavement should not be used in the traveled way except for curbside parking areas, generally extending 6.5 feet from the lip of the gutter. When used for curbside parking areas, the concrete gutter should be left in place.
2. Pervious pavement should not be used over areas where water or sewer main lines are located. This is to minimize cost should the utility main lines require maintenance.
3. Pervious pavement should not be used in areas of concentrated flow where road gutters or parking lot ribbon gutters would typically be located.
4. Pervious pavement should be used primarily to infiltrate rainwater landing on it. In cases where it is necessary to drain adjacent impervious areas to the pervious pavement section, the ratio of tributary impervious area to pervious area should not exceed 2 to 1.^(a) In no case shall sediment laden flows be directed to drain to pervious pavement.
5. Pervious pavement is likely to undergo a large sediment load during construction. Particular care shall be utilized to prevent construction phase sediments from spreading to areas covered by pervious pavement.^(a)
6. Correct placement and handling techniques are paramount in the utilization of pervious pavement. Prescreening or selection of contractors with experience in placement of pervious pavement is recommended.
7. Pervious pavement shall not be used within 10 feet of sewer main lines.

References

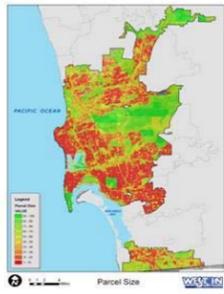
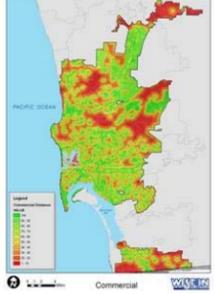
The following references (a) through (d) present site selection and/or design guidelines for infiltration devices. In some cases, these guidelines have been modified to achieve a more restrictive guideline.

- (a) Denver Urban Drainage and Flood Control District Drainage Criteria Manual Volume 3. 2007. Structural Best Management Practices Section.
 - (b) Concrete Construction. June 2005. Volume 60. Number 6. *Concrete That Drains*. William D. Palmer Jr.
 - (c) Portland Cement Association and National Ready Mixed Concrete Association. 2004. *Pervious Concrete Pavements*. Paul D. Tennis, Michael L. Leming, and David J. Akers.
 - (d) California Regional Water Quality Control Board San Diego Region. January 24, 2007. Order Number R9-2007-0001. Waste Discharge Requirements for Discharges of Urban Runoff from the Municipal Separate Storm Sewer Systems (MS4s) Draining the Watersheds of the County of San Diego, the Incorporated Cities of San Diego County, the San Diego Unified Port District, and the San Diego County Regional Airport Authority.
- A Guide to Hydrologic Analysis using SCS Methods. Richard H. McCuen. 1982.

BMP Site Selection Methodology:

1. Source information applicable to a criteria was entered into GIS
2. Geostatistical analysis (e.g. proximity, size, density, exclusion) is done on the criteria parameter of interest
3. The analysis results are normalized to a percentile ranking score (1-100) across the City of San Diego jurisdiction
4. Appropriate criteria result maps are selected and weighted appropriate to the BMP of interest.
5. The various criteria maps and their weights are combined into a final map of BMP suitability
6. Potential BMP sites are then overlaid on the final map of BMP suitability to assign suitability scores
7. Potential BMP Sites are then ranked based on their suitability scores

BMP Site Selection Criteria

	Criteria Name	Parcel Size	Other CIP Projects	Potential BMP Site Proximity	Building Proximity	Right of Way Proximity	Residential Distance	Commercial Distance	Ground Water Basin
Criteria Information	Criteria Raster Graphic		TBD	TBD		NA			NA
	Criteria Definition	A parcel GIS layer is used to come up with a relative ranking of parcel size. A large parcel size is assumed to provide more opportunities for BMP placement	SANGIS Layer of Capital Improvement Projects are used in this analysis. Proximity to a CIP is considered more suitable	Proximity to other potential BMP sites is considered more suitable because of the opportunity to combine projects	A SANGIS building footprint layer is used to indicate areas unsuitable for BMP placement	A Street right of way layer is used to find areas suitable for street related BMPs	Proximity to residential areas (SANDAG) can be used to avoid or favor residential areas for BMP siting	Proximity to commercial areas (SANDAG) can be used to favor BMP siting	A SANGIS groundwater basin layer is used to indicate areas unsuitable for BMP placement
Application of Criteria to different BMP types	Green Mall (urban street)	na	Y	YY	*	Y	na	Y	**
	Green Mall (commercial lot)	Y	Y	YY	*	Y	na	Y	**
	Green Street	na	Y	YY	*	Y	Y	na	**

	Criteria Name	Parcel Size	Other CIP Projects	Potential BMP Site Proximity	Building Proximity	Right of Way Proximity	Residential Distance	Commercial Distance	Ground Water Basin
	Green Lot	Y	Y	YY	*	na	na	na	**
	Bacteria Treatment System	Y	Y	Y	na	na	na	na	na
	Hydrodynamic Separator	Y	Y	Y	na	na	na	na	na
	Large LID	Y	Y	YY	*	na	na	na	**

Y – Important to Site Selection for the BMP

YY – High Importance to the siting of the BMP and criteria may be weighted higher to compare between similarly scored sites.

na - Not Applicable

*Proximity of the BMP site to existing infrastructure should be reasonable in order to avoid any damage to the buildings due to infiltration. If a BMP site of this nature must be selected, then infiltration system should be engineering around the infrastructure to protect the infrastructure (Ex: Geosynthetic liners)

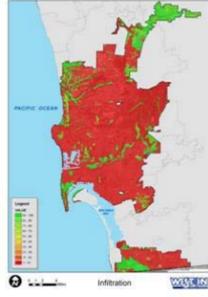
** Avoid regions with significant groundwater basins or the Ground water elevation should be at least greater than 10 ft below the surface.

*** Avoid selection of BMP sites in environmentally sensitive areas or close to potentially contaminated sites

**** High slopes are not suitable for BMP placement due to slope stability concerns.

Y* Considerable head difference is needed for the BMP implementation.

BMP Site Selection Criteria

	Criteria Name	Ground Water Elevation	Infiltration	Water Body Proximity	Proximity Potentially Contaminated Site	Surplus City Real Estate Parcel	Environmentally Sensitive Areas	Outlet Distance
Criteria Information	Criteria Raster Graphic	TBD				TBD		TBD
	Criteria Definition	Groundwater elevations greater than 10 feet are necessary for infiltration BMPs	A USDA soil layer is used to determine infiltration capacity. Higher infiltration would be more favorable to some BMPs	A SANDAG water body layer is used to identify areas BMP placement near a water body would be favorable. The actual water body area is excluded	Areas near contaminated Sites (State of California) are ranked lower	Surplus City of San Diego real estate is ranked high.	Environmentally sensitive areas (SANGIS) are ranked unsuitable for BMP placement	Close proximity to a stormwater outlet (SANGIS) may make a site more suitable for BMP placement
Application of Criteria to different BMP types	Green Mall (urban street)	**	Y	Y	***	Y	***	Y
	Green Mall (commercial lot)	**	Y	Y	***	Y	***	Y
	Green Street	**	Y	Y	***	na	***	Y
	Green Lot	**	Y	Y	***	Y	***	Y

	Criteria Name	Ground Water Elevation	Infiltration	Water Body Proximity	Proximity Potentially Contaminated Site	Surplus City Real Estate Parcel	Environmentally Sensitive Areas	Outlet Distance
	Abtec	**	na	YY	***	Y	***	YY
	Hydrodynamic Separator	**	na	Y	***	Y	***	Y
	Large LID	**	Y	Y	***	Y	***	Y

Y – Important to Site Selection for the BMP

YY – High Importance to the siting of the BMP and criteria may be weighted higher to compare between similarly scored sites.

na - Not Applicable

*Proximity of the BMP site to existing infrastructure should be reasonable in order to avoid any damage to the buildings due to infiltration. If a BMP site of this nature must be selected, then infiltration system should be engineering around the infrastructure to protect the infrastructure (Ex: Geosynthetic liners)

** Avoid regions with significant groundwater basins or the Ground water elevation should be at least greater than 10 ft below the surface.

*** Avoid selection of BMP sites in environmentally sensitive areas or close to potentially contaminated sites

**** High slopes are not suitable for BMP placement due to slope stability concerns.

Y* Considerable head difference is needed for the BMP implementation.

BMP Site Selection Criteria

	Criteria Name	Inlet Distance	Priority Sector	Drainage Area	Parcel Size / Drainage Area	Slope	Storm Drain Distance	LTEA Source Data
Criteria Information	Criteria Raster Graphic		TBD		TBD			TBD
	Criteria Definition	Close proximity to a stormwater inlet (SANGIS) may make a site more suitable for BMP placement	Areas ranked in the Watershed Prioritization process are given a more suitable score for BMP placement	Relative drainage area as calculated from a SANDAG DEM is used to determine more suitable sites near higher flow	A ratio of parcel size to relative drainage area is calculated. A higher ratio may be more suitable because there is more area to treat flow	Areas of high slope (SANDAG) are less suitable for BMP placement	Close proximity to a storm drain network (SANGIS) may make a site more suitable for BMP placement	A high density of Long Term Environmental Assessment pollutant sources makes an area more suitable for BMP placement
Application of Criteria to different BMP types	Green Mall (urban street)	Y	Y	Y	Y	****	Y	Y
	Green Mall (commercial lot)	Y	Y	Y	Y	****	Y	Y
	Green Street	Y	Y	Y	Y	****	Y	Y
	Green Lot	Y	Y	YY	Y	****	Y	Y

	Criteria Name	Inlet Distance	Priority Sector	Drainage Area	Parcel Size / Drainage Area	Slope	Storm Drain Distance	LTEA Source Data
	Abtec	Y	Y	YY	Y	Y*	Y	YY (gross Pol + Bact)
	Hydrodynamic Separator	Y	Y	YY	Y	Y*	Y	YY (gross Pol + Sed)
	Large LID	Y	Y	YY	Y	****	Y	Y

Y – Important to Site Selection for the BMP

YY – High Importance to the siting of the BMP and criteria may be weighted higher to compare between similarly scored sites.

na - Not Applicable

*Proximity of the BMP site to existing infrastructure should be reasonable in order to avoid any damage to the buildings due to infiltration. If a BMP site of this nature must be selected, then infiltration system should be engineering around the infrastructure to protect the infrastructure (Ex: Geosynthetic liners)

** Avoid regions with significant groundwater basins or the Ground water elevation should be at least greater than 10 ft below the surface.

*** Avoid selection of BMP sites in environmentally sensitive areas or close to potentially contaminated sites

**** High slopes are not suitable for BMP placement due to slope stability concerns.

Y* Considerable head difference is needed for the BMP implementation.

APPENDIX C

Watershed Permit Activities

Cost Estimate

USER'S GUIDE TO COST TABLES INCLUDED IN APPENDIX C & D

How to use the Cost template?

A spreadsheet template for the estimation of the total annual costs is provided in electronic format on the enclosed compact disc. The anticipated watershed activities listed in Section 4.0 and 5.0 are subject to modification based on available resources and the results of the water quality source and BMP effectiveness. Therefore, the implementation plan and the list of activities may be subject to change in the future years. The attached cost spreadsheet template provides a tool to re-estimate the total annual costs for the watershed activities based on program changes. The following steps as outlined below are to be used for the attached spreadsheet:

- Choose '1' to implement a certain project type corresponding to the implementation year. This corresponds to a 'YES – This BMP project type will be implemented in the respective year'. Refer 'A' in the Figure on the below.
- Choose '0' if no projects will be implemented that particular year. Refer 'A' in the figure below.
- Enter the number of activities desired in the respective years and also enter the respective project number to track the projects. Refer 'B' in the figure below.

The spreadsheet will calculate the total estimated costs for the different projects entered in the spreadsheet for the respective years and also the total cost.

How to Read the Cost Tables?

The cost tables are estimated for different potential projects identified in the implementation strategy. The implementation of each of these projects follow the strategy for single and multiple pollutant BMPs as explained in section 3.0. The cost of the project is estimated based on conceptual level engineering cost estimates for a "typical" BMP project of this type. The capital costs include construction and contingency costs. The design costs for these projects are incorporated two years prior to the construction due to a 30 month requirements for design and processing. Operation and Maintenance costs are estimated for the years following the implementation year. Further, these tables are

populated with different projects in different years to follow the permit and TMDL activities shown in Table 4-1 and 5-1 respectively. The cost estimates for Permit activities are presented in Appendix C. The cost estimates for TMDL and ASBS activities have been presented in Appendix D.

Example of Cost Template Spreadsheet

San Diego Bay Watershed - Chollas Creek - TMDL Cost										
BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping		\$525,000		0	1	1	1	1	1	Enter the required number of units for the corresponding activity in the # of units Column. Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot	It is equivalent to 15 % Of the Capital cost in the Following Year	\$1,154,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	0	1		
Green Street		\$1,386,000		0	0	1	1	1		
Green Mall		\$2,382,000		0	0	1	1	1		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Bioretention/Restoration		\$349,000		0	0	0	0	0		
Diversions		\$773,000		0	0	0	1	1		
Trash Segregation		\$27,000		0	0	0	0	1		
Erosion Control Devices		\$312,000		0	0	0	0	0		

San Diego Bay Watershed - Chollas Creek - TMDL Cost						
Year	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
2007						
Street Sweeping	\$0	\$0	\$0	0		A
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		
2008						
Street Sweeping	\$0	\$588,000	\$0	1		B
Green Lot	\$0	\$0	\$0	0		
Green Street	\$283,000	\$0	\$0	0		
Green Mall	\$972,000	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$316,000	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		
2009						
Street Sweeping	\$0	\$651,000	\$6,000	1		B
Green Lot	\$513,000	\$0	\$0	0		
Green Street	\$616,000	\$0	\$0	0		
Green Mall	\$1,058,000	\$0	\$0	0	2	
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		
2010						
Street Sweeping	\$0	\$714,000	\$13,000	1		B
Green Lot	\$513,000	\$0	\$0	0		
Green Street	\$616,000	\$1,885,000	\$0	1	4	
Green Mall	\$1,058,000	\$6,480,000	\$0	2	5,18	
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$2,103,000	\$0	2	6	
Trash Segregation	\$6,000	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		
2011						
Street Sweeping	\$0	\$777,000	\$21,000	1		B
Green Lot	\$513,000	\$3,416,000	\$0	2	8, 13	
Green Street	\$616,000	\$4,103,000	\$19,000	2	9, 14	
Green Mall	\$1,058,000	\$7,051,000	\$65,000	2	10,15	
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$22,000	0	11, 16	
Trash Segregation	\$6,000	\$40,000	\$0	1	3	
Erosion Control Devices	\$0	\$0	\$0	0		
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$0	\$0	\$0	\$0		
2008	\$1,571,000	\$588,000	\$0	\$2,159,000		
2009	\$2,193,000	\$651,000	\$6,000	\$2,850,000		
2010	\$2,193,000	\$11,182,000	\$13,000	\$13,388,000		
2011	\$2,193,000	\$15,387,000	\$127,000	\$17,707,000		
Total	\$8,150,000	\$27,808,000	\$146,000	\$36,104,000		

San Diego Bay Watershed - Chollas Creek - Permit Cost

BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping	It is equivalent to 15 % Of the Capital cost in the Following Year	\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	0	1	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	1	1	0		
Green Street		\$1,386,000		0	0	0	0	0		
Green Mall		\$2,382,000		0	0	0	0	0		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Bioretention/Restoration		\$349,000		0	0	0	1	0		
Diversions		\$773,000		0	0	0	0	0		
Trash Segregation		\$27,000		0	1	0	1	1		
Erosion Control Devices		\$312,000		0	0	0	0	0		

San Diego Bay Watershed - Chollas Creek - Permit Cost

2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$215,000	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$1,000	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		

San Diego Bay Watershed - Chollas Creek - Permit Cost

2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$236,000	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$72,000	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$4,000	\$0	1	12A	10 % of total cost to be considered as Abtech is paying for rest
Erosion Control Devices	\$0	\$0	\$0	0		

San Diego Bay Watershed - Chollas Creek - Permit Cost

2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$1,431,000	\$0	1	3A	
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$1,000	0		
Erosion Control Devices	\$0	\$0	\$0	0		

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$1,570,000	\$15,000	1	3	
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$475,000	\$0	1		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$37,000	\$1,000	1	1	
Erosion Control Devices	\$0	\$0	\$0	0		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$777,000	\$0	1		New Vaccum Truck and Route
Green Lot	\$0	\$0	\$31,000	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0	2	
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$5,000	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$40,000	\$2,000	1	12B	
Erosion Control Devices	\$0	\$0	\$0	0		
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$216,000	\$0	\$0	\$216,000		
2008	\$314,000	\$4,000	\$0	\$318,000		
2009	\$6,000	\$1,431,000	\$1,000	\$1,438,000		
2010	\$6,000	\$2,082,000	\$16,000	\$2,104,000		
2011	\$6,000	\$817,000	\$38,000	\$861,000		
Total	\$548,000	\$4,334,000	\$55,000	\$4,937,000		

Mission Bay Watershed - Tecolote Creek - Permit Cost

BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping		\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	0	0	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	0	0	0		
Green Street	It is equivalent to 15 % Of the Capital cost in the Following Year	\$1,386,000		0	0	1	0	1		
Green Mall		\$2,382,000		0	0	0	0	0		
Rain Barrells		\$1,553,000		0	1	0	0	0		
Bioretention/Restoration		\$349,000		0	0	0	0	0		
Diversions		\$773,000		0	0	0	1	0		
Trash Segregation		\$27,000		0	0	0	1	0		
Erosion Control Devices		\$312,000		0	0	0	0	0		

Mission Bay Watershed - Tecolote Creek - Permit Cost

2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$4,000	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		

2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$24,000	\$0	1	11	Rose Canyon Maintenance Yard
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$32,000	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		

2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$308,000	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$1,000	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$308,000	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$1,000	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$211,000	\$0	0		To be paid by CBI grant Monies - City needs to match 20 % of the cost
Trash Segregation	\$0	\$37,000	\$0	1	1	
Erosion Control Devices	\$0	\$0	\$0	0		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$308,000	\$2,052,000	\$0	1	2	
Green Mall	\$0	\$0	\$0	0	2	
Rain Barrells	\$0	\$0	\$1,000	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$3,000	0		
Trash Segregation	\$0	\$0	\$1,000	0		
Erosion Control Devices	\$0	\$0	\$0	0		
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$4,000	\$0	\$0	\$4,000		
2008	\$38,000	\$24,000	\$0	\$62,000		
2009	\$308,000	\$0	\$1,000	\$309,000		
2010	\$308,000	\$248,000	\$1,000	\$557,000		
2011	\$308,000	\$2,052,000	\$5,000	\$2,365,000		
Total	\$966,000	\$2,324,000	\$7,000	\$3,297,000		

Mission Bay Watershed - La Jolla - Permit Cost										
BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping	It is equivalent to 15 % of the Capital cost in the Following Year	\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	1	0	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	0	0	0		
Green Street		\$1,386,000		0	0	0	0	0		
Green Mall		\$2,382,000		0	0	0	0	0		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Smart Irrigation systems		\$50,000		0	0	0	0	1		
Diversions		\$773,000		0	1	1	1	0		
Trash Segregation		\$27,000		0	0	0	1	0		
Erosion Control Devices		\$312,000		0	0	0	0	0		

Mission Bay Watershed - La Jolla - Permit Cost						
2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$64,000	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		

2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$32,000	\$192,000	\$0	2	4	To be paid by CBI grant Monies - City needs to match 20 % of the cost
Trash Segregation	\$6,000	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		

2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$23,000	\$0	\$0	0		
Diversions	\$0	\$229,000	\$2,000	2	4	To be paid by CBI grant Monies - City needs to match 20 % of the cost
Trash Segregation	\$0	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$714,000	\$0	1		New Vacuum Truck and Route
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$23,000	\$0	\$0	0		
Diversions	\$0	\$211,000	\$5,000	0		To be paid by CBI grant Monies - City needs to match 20 % of the cost
Trash Segregation	\$0	\$37,000	\$0	1	1	
Erosion Control Devices	\$0	\$0	\$0	0		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$8,000	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0	2	
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$23,000	\$148,000	\$0	2	12,13	
Diversions	\$0	\$0	\$8,000	0		
Trash Segregation	\$0	\$0	\$1,000	0		
Erosion Control Devices	\$0	\$0	\$0	0		
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$64,000	\$0	\$0	\$64,000		
2008	\$38,000	\$192,000	\$0	\$230,000		
2009	\$23,000	\$229,000	\$2,000	\$254,000		
2010	\$23,000	\$962,000	\$5,000	\$990,000		
2011	\$23,000	\$148,000	\$17,000	\$188,000		
Total	\$171,000	\$1,531,000	\$24,000	\$1,726,000		

Los penasquitos - Permit Cost

BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping	It is equivalent to 15 % Of the Capital cost in the Following Year	\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	0	0	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	0	0	0		
Green Street		\$1,386,000		0	0	0	0	0		
Green Mall		\$2,382,000		0	0	0	0	1		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Smart Irrigation systems		\$50,000		0	0	0	1	0		
Diversions		\$773,000		0	0	0	0	0		
Trash Segregation		\$27,000		0	0	0	1	0		
Hydrodynamic Separators		\$312,000		0	0	0	1	0		

Los Penasquitos - Permit Cost

2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Hydrodynamic Separators	\$0	\$0	\$0	0		

2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$11,000	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Hydrodynamic Separators	\$128,000	\$0	\$0	0		

2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$529,000	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Hydrodynamic Separators	\$0	\$0	\$0	0		

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$529,000	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$68,000	\$0	1		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$37,000	\$0	1	1	
Hydrodynamic Separators	\$0	\$849,000	\$0	2		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$529,000	\$3,526,000	\$0	1	2	
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$1,000	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$1,000	0		
Hydrodynamic Separators	\$0	\$0	\$9,000	0		
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$0	\$0	\$0	\$0		
2008	\$145,000	\$0	\$0	\$145,000		
2009	\$529,000	\$0	\$0	\$529,000		
2010	\$529,000	\$954,000	\$0	\$1,483,000		
2011	\$529,000	\$3,526,000	\$11,000	\$4,066,000		
Total	\$1,732,000	\$4,480,000	\$11,000	\$6,223,000		

San Diego River - Permit Cost										
BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping	It is equivalent to 15 % Of the Capital cost in the Following Year	\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	0	0	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	0	0	0		
Green Street		\$1,386,000		0	0	0	0	0		
Green Mall		\$2,382,000		0	0	0	0	1		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Smart Irrigation systems		\$50,000		0	0	0	1	0		
Diversions		\$773,000		0	0	0	0	0		
Trash Segregation		\$27,000		0	0	0	1	0		
Hydrodynamic Separators		\$312,000		0	0	0	1	0		
San Diego River - Permit Cost										
2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments				
Street Sweeping	\$0	\$0	\$0	0						
Green Lot	\$0	\$0	\$0	0						
Green Street	\$0	\$0	\$0	0						
Green Mall	\$0	\$0	\$0	0						
Rain Barrells	\$0	\$0	\$0	0						
Smart Irrigation systems	\$0	\$0	\$0	0						
Diversions	\$0	\$0	\$0	0						
Trash Segregation	\$0	\$0	\$0	0						
Hydrodynamic Separators	\$0	\$0	\$0	0						
2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments				
Street Sweeping	\$0	\$0	\$0	0						
Green Lot	\$0	\$0	\$0	0						
Green Street	\$0	\$0	\$0	0						
Green Mall	\$0	\$0	\$0	0						
Rain Barrells	\$0	\$0	\$0	0						
Smart Irrigation systems	\$11,000	\$0	\$0	0						
Diversions	\$0	\$0	\$0	0						
Trash Segregation	\$6,000	\$0	\$0	0						
Hydrodynamic Separators	\$128,000	\$0	\$0	0						
2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments				
Street Sweeping	\$0	\$0	\$0	0						
Green Lot	\$0	\$0	\$0	0						
Green Street	\$0	\$0	\$0	0						
Green Mall	\$529,000	\$0	\$0	0						
Rain Barrells	\$0	\$0	\$0	0						
Smart Irrigation systems	\$0	\$0	\$0	0						
Diversions	\$0	\$0	\$0	0						
Trash Segregation	\$0	\$0	\$0	0						
Hydrodynamic Separators	\$0	\$0	\$0	0						

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$529,000	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$68,000	\$0	1		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$37,000	\$0	1	1	
Hydrodynamic Separators	\$0	\$849,000	\$0	2		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$529,000	\$3,526,000	\$0	1	2	
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$1,000	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$1,000	0		
Hydrodynamic Separators	\$0	\$0	\$9,000	0		
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$0	\$0	\$0	\$0		
2008	\$145,000	\$0	\$0	\$145,000		
2009	\$529,000	\$0	\$0	\$529,000		
2010	\$529,000	\$954,000	\$0	\$1,483,000		
2011	\$529,000	\$3,526,000	\$11,000	\$4,066,000		
Total	\$1,732,000	\$4,480,000	\$11,000	\$6,223,000		

San Dieguito - Permit Cost

BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping	It is equivalent to 15 % of the Capital cost in the Following Year	\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	0	0	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	0	0	0		
Green Street		\$1,386,000		0	0	0	0	0		
Green Mall		\$2,382,000		0	0	0	0	0		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Smart Irrigation systems		\$50,000		0	0	0	0	1		
Diversions		\$773,000		0	0	0	0	0		
Trash Segregation		\$27,000		0	0	0	1	0		
Sediment and peak flow Project		\$312,000		0	0	0	1	0		

San Dieguito - Permit Cost

2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Sediment and peak flow Project	\$0	\$0	\$0	0		

2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Sediment and peak flow Project	\$64,000	\$0	\$0	0		

2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$12,000	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Sediment and peak flow Project	\$0	\$0	\$0	0		

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$12,000	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$37,000	\$0	1	1	
Sediment and peak flow Project	\$0	\$425,000	\$0	1		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0	2	
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$12,000	\$74,000	\$0	1	3	
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$1,000	0		
Sediment and peak flow Project	\$0	\$0	\$5,000	0		
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$0	\$0	\$0	\$0		
2008	\$70,000	\$0	\$0	\$70,000		
2009	\$12,000	\$0	\$0	\$12,000		
2010	\$12,000	\$462,000	\$0	\$474,000		
2011	\$12,000	\$74,000	\$6,000	\$92,000		
Total	\$106,000	\$536,000	\$6,000	\$648,000		

Tijuana - Permit Cost

BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping	It is equivalent to 15 % Of the Capital cost in the Following Year	\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	1	0	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	0	0	0		
Green Street		\$1,386,000		0	0	0	0	0		
Green Mall		\$2,382,000		0	0	0	0	1		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Smart Irrigation systems		\$50,000		0	0	0	0	0		
Diversions		\$773,000		0	0	0	0	0		
Trash Segregation		\$27,000		0	0	0	1	0		
Sediment and peak flow Project		\$312,000		0	0	0	0	0		

Tijuana - Permit Cost

2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Sediment and peak flow Project	\$0	\$0	\$0	0		

2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Sediment and peak flow Project	\$0	\$0	\$0	0		

2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$529,000	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Sediment and peak flow Project	\$0	\$0	\$0	0		

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$714,000	\$0	1		New Vaccum Truck and Route
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$529,000	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$37,000	\$0	1	1	
Sediment and peak flow Project	\$0	\$0	\$0	0		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$8,000	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$529,000	\$3,526,000	\$0	1	2	
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$1,000	0		
Sediment and peak flow Project	\$0	\$0	\$0	0		
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$0	\$0	\$0	\$0		
2008	\$6,000	\$0	\$0	\$6,000		
2009	\$529,000	\$0	\$0	\$529,000		
2010	\$529,000	\$751,000	\$0	\$1,280,000		
2011	\$529,000	\$3,526,000	\$9,000	\$4,064,000		
Total	\$1,593,000	\$4,277,000	\$9,000	\$5,879,000		

APPENDIX D

Watershed TMDL Activities

Cost Estimate

San Diego Bay Watershed - Chollas Creek - TMDL Cost

BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping	It is equivalent to 15 % Of the Capital cost in the Following Year	\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	1	1	1	1	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	0	0	1		
Green Street		\$1,386,000		0	0	0	1	1		
Green Mall		\$2,382,000		0	0	1	1	1		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Bioretention/Restoration		\$349,000		0	0	0	0	0		
Diversions		\$773,000		0	0	0	1	1		
Trash Segregation		\$27,000		0	0	0	0	1		
Erosion Control Devices		\$312,000		0	0	0	0	0		

San Diego Bay Watershed - Chollas Creek - TMDL Cost

2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		

2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$588,000	\$0	1		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$283,000	\$0	\$0	0		
Green Mall	\$972,000	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$316,000	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		

2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$651,000	\$6,000	1		
Green Lot	\$513,000	\$0	\$0	0		
Green Street	\$616,000	\$0	\$0	0		
Green Mall	\$1,058,000	\$0	\$0	0	2	
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$714,000	\$13,000	1		
Green Lot	\$513,000	\$0	\$0	0		
Green Street	\$616,000	\$1,885,000	\$0	1	4	
Green Mall	\$1,058,000	\$6,480,000	\$0	2	5,18	
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$2,103,000	\$0	2	6	
Trash Segregation	\$6,000	\$0	\$0	0		
Erosion Control Devices	\$0	\$0	\$0	0		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$777,000	\$21,000	1		
Green Lot	\$513,000	\$3,416,000	\$0	2	8, 13	
Green Street	\$616,000	\$4,103,000	\$19,000	2	9, 14	
Green Mall	\$1,058,000	\$7,051,000	\$65,000	2	10,15	
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$22,000	0	11, 16	
Trash Segregation	\$6,000	\$40,000	\$0	1	3	
Erosion Control Devices	\$0	\$0	\$0	0		
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$0	\$0	\$0	\$0		
2008	\$1,571,000	\$588,000	\$0	\$2,159,000		
2009	\$2,193,000	\$651,000	\$6,000	\$2,850,000		
2010	\$2,193,000	\$11,182,000	\$13,000	\$13,388,000		
2011	\$2,193,000	\$15,387,000	\$127,000	\$17,707,000		
Total	\$8,150,000	\$27,808,000	\$146,000	\$36,104,000		

Mission Bay Watershed - Tecolote Creek - TMDL Cost

BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping	It is equivalent to 15 % Of the Capital cost in the Following Year	\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	1	1	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	0	0	0		
Green Street		\$1,386,000		0	0	0	1	1		
Green Mall		\$2,382,000		0	0	0	1	1		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Bioretention/Restoration		\$349,000		0	0	0	0	0		
Diversions		\$773,000		0	0	0	0	0		
Trash Segregation		\$27,000		0	0	0	0	1		
Hydrodynamic Separators		\$312,000		0	0	0	0	1		

Mission Bay Watershed - Tecolote Creek - TMDL Cost

2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Hydrodynamic Separators	\$0	\$0	\$0	0		

2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$283,000	\$0	\$0	0		
Green Mall	\$486,000	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Hydrodynamic Separators	\$0	\$0	\$0	0		

2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$308,000	\$0	\$0	0		
Green Mall	\$529,000	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Hydrodynamic Separators	\$70,000	\$0	\$0	0		

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$714,000	\$0	1		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$308,000	\$1,885,000	\$0	1	3	
Green Mall	\$529,000	\$3,240,000	\$0	1	4	
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Hydrodynamic Separators	\$70,000	\$0	\$0	0		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$777,000	\$8,000	1		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$308,000	\$2,052,000	\$19,000	1	6	
Green Mall	\$529,000	\$3,526,000	\$33,000	1	7	
Rain Barrells	\$0	\$0	\$0	0		
Bioretention/Restoration	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$40,000	\$0	1	3	
Hydrodynamic Separators	\$70,000	\$462,000	\$0	1	8	
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$0	\$0	\$0	\$0		
2008	\$769,000	\$0	\$0	\$769,000		
2009	\$913,000	\$0	\$0	\$913,000		
2010	\$913,000	\$5,839,000	\$0	\$6,752,000		
2011	\$913,000	\$6,857,000	\$60,000	\$7,830,000		
Total	\$3,508,000	\$12,696,000	\$60,000	\$16,264,000		

Mission Bay Watershed - La Jolla - TMDL Cost

BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping		\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	1	1	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	1	0	0	0		
Green Street	It is equivalent to 15 % Of the Capital cost in the Following Year	\$1,386,000		0	0	0	1	1		
Green Mall		\$2,382,000		0	0	0	0	0		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Smart Irrigation systems		\$50,000		0	0	0	0	0		
Diversions		\$773,000		0	1	0	0	0		
Trash Segregation		\$27,000		0	0	0	0	1		
Hydrodynamic Separators		\$312,000		0	0	0	0	0		

Mission Bay Watershed - La Jolla - TMDL Cost

2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$194,000	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$172,000	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Hydrodynamic Separators	\$0	\$0	\$0	0		

2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$1,293,000	\$0	1	1	
Green Street	\$283,000	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$1,145,000	\$0	4	2	
Trash Segregation	\$0	\$0	\$0	0		
Hydrodynamic Separators	\$0	\$0	\$0	0		

2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$13,000	0		
Green Street	\$308,000	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$12,000	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Hydrodynamic Separators	\$0	\$0	\$0	0		

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$714,000	\$0	1		
Green Lot	\$0	\$0	\$13,000	0		
Green Street	\$308,000	\$1,885,000	\$0	1	6	
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$12,000	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Hydrodynamic Separators	\$0	\$0	\$0	0		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$777,000	\$8,000	1		
Green Lot	\$0	\$0	\$13,000	0		
Green Street	\$308,000	\$2,052,000	\$19,000	1	9	
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$12,000	0		
Trash Segregation	\$6,000	\$40,000	\$0	1	3	
Hydrodynamic Separators	\$0	\$0	\$0	0		
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$366,000	\$0	\$0	\$366,000		
2008	\$283,000	\$2,438,000	\$0	\$2,721,000		
2009	\$314,000	\$0	\$25,000	\$339,000		
2010	\$314,000	\$2,599,000	\$25,000	\$2,938,000		
2011	\$314,000	\$2,869,000	\$52,000	\$3,235,000		
Total	\$1,591,000	\$7,906,000	\$102,000	\$9,599,000		

Los penasquitos - TMDL Cost										
BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping	It is equivalent to 15 % Of the Capital cost in the Following Year	\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	0	0	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	0	0	0		
Green Street		\$1,386,000		0	0	0	0	0		
Green Mall		\$2,382,000		0	0	0	0	0		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Smart Irrigation systems		\$50,000		0	0	0	0	0		
Diversions		\$773,000		0	0	0	0	0		
Trash Segregation		\$27,000		0	0	0	0	1		
Hydrodynamic Separators		\$312,000		0	0	0	0	1		
Los Penasquitos - TMDL Cost										
2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments				
Street Sweeping	\$0	\$0	\$0	0						
Green Lot	\$0	\$0	\$0	0						
Green Street	\$0	\$0	\$0	0						
Green Mall	\$0	\$0	\$0	0						
Rain Barrells	\$0	\$0	\$0	0						
Smart Irrigation systems	\$0	\$0	\$0	0						
Diversions	\$0	\$0	\$0	0						
Trash Segregation	\$0	\$0	\$0	0						
Hydrodynamic Separators	\$0	\$0	\$0	0						
2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments				
Street Sweeping	\$0	\$0	\$0	0						
Green Lot	\$0	\$0	\$0	0						
Green Street	\$0	\$0	\$0	0						
Green Mall	\$0	\$0	\$0	0						
Rain Barrells	\$0	\$0	\$0	0						
Smart Irrigation systems	\$0	\$0	\$0	0						
Diversions	\$0	\$0	\$0	0						
Trash Segregation	\$0	\$0	\$0	0						
Hydrodynamic Separators	\$0	\$0	\$0	0						
2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments				
Street Sweeping	\$0	\$0	\$0	0						
Green Lot	\$0	\$0	\$0	0						
Green Street	\$0	\$0	\$0	0						
Green Mall	\$0	\$0	\$0	0						
Rain Barrells	\$0	\$0	\$0	0						
Smart Irrigation systems	\$0	\$0	\$0	0						
Diversions	\$0	\$0	\$0	0						
Trash Segregation	\$6,000	\$0	\$0	0						
Hydrodynamic Separators	\$70,000	\$0	\$0	0						

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Hydrodynamic Separators	\$70,000	\$0	\$0	0		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$40,000	\$0	1	3	
Hydrodynamic Separators	\$70,000	\$462,000	\$0	2	4	
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$0	\$0	\$0	\$0		
2008	\$0	\$0	\$0	\$0		
2009	\$76,000	\$0	\$0	\$76,000		
2010	\$76,000	\$0	\$0	\$76,000		
2011	\$76,000	\$502,000	\$0	\$578,000		
Total	\$228,000	\$502,000	\$0	\$730,000		

San Diego River - TMDL Cost										
BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping	It is equivalent to 15 % Of the Capital cost in the Following Year	\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	0	0	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	0	0	0		
Green Street		\$1,386,000		0	0	0	0	0		
Green Mall		\$2,382,000		0	0	0	0	0		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Smart Irrigation systems		\$50,000		0	0	0	0	0		
Diversions		\$773,000		0	0	0	0	0		
Trash Segregation		\$27,000		0	0	0	0	1		
Hydrodynamic Separators		\$312,000		0	0	0	0	1		
San Diego River - TMDL Cost										
2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments				
Street Sweeping	\$0	\$0	\$0	0						
Green Lot	\$0	\$0	\$0	0						
Green Street	\$0	\$0	\$0	0						
Green Mall	\$0	\$0	\$0	0						
Rain Barrells	\$0	\$0	\$0	0						
Smart Irrigation systems	\$0	\$0	\$0	0						
Diversions	\$0	\$0	\$0	0						
Trash Segregation	\$0	\$0	\$0	0						
Hydrodynamic Separators	\$0	\$0	\$0	0						
2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments				
Street Sweeping	\$0	\$0	\$0	0						
Green Lot	\$0	\$0	\$0	0						
Green Street	\$0	\$0	\$0	0						
Green Mall	\$0	\$0	\$0	0						
Rain Barrells	\$0	\$0	\$0	0						
Smart Irrigation systems	\$0	\$0	\$0	0						
Diversions	\$0	\$0	\$0	0						
Trash Segregation	\$0	\$0	\$0	0						
Hydrodynamic Separators	\$0	\$0	\$0	0						
2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments				
Street Sweeping	\$0	\$0	\$0	0						
Green Lot	\$0	\$0	\$0	0						
Green Street	\$0	\$0	\$0	0						
Green Mall	\$0	\$0	\$0	0						
Rain Barrells	\$0	\$0	\$0	0						
Smart Irrigation systems	\$0	\$0	\$0	0						
Diversions	\$0	\$0	\$0	0						
Trash Segregation	\$6,000	\$0	\$0	0						
Hydrodynamic Separators	\$139,000	\$0	\$0	0						

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Hydrodynamic Separators	\$139,000	\$0	\$0	0		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$40,000	\$0	1	3	
Hydrodynamic Separators	\$139,000	\$924,000	\$0	2	4	
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$0	\$0	\$0	\$0		
2008	\$0	\$0	\$0	\$0		
2009	\$145,000	\$0	\$0	\$145,000		
2010	\$145,000	\$0	\$0	\$145,000		
2011	\$145,000	\$964,000	\$0	\$1,109,000		
Total	\$435,000	\$964,000	\$0	\$1,399,000		

San Dieguito - TMDL Cost										
BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping	It is equivalent to 15 % Of the Capital cost in the Following Year	\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	0	0	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	0	0	0		
Green Street		\$1,386,000		0	0	0	0	0		
Green Mall		\$2,382,000		0	0	0	0	0		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Smart Irrigation systems		\$50,000		0	0	0	0	1		
Diversions		\$773,000		0	0	0	0	0		
Trash Segregation		\$27,000		0	0	0	0	1		
Hydrodynamic Separators		\$312,000		0	0	0	0	0		
San Dieguito - TMDL Cost										
2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments				
Street Sweeping	\$0	\$0	\$0	0						
Green Lot	\$0	\$0	\$0	0						
Green Street	\$0	\$0	\$0	0						
Green Mall	\$0	\$0	\$0	0						
Rain Barrells	\$0	\$0	\$0	0						
Smart Irrigation systems	\$0	\$0	\$0	0						
Diversions	\$0	\$0	\$0	0						
Trash Segregation	\$0	\$0	\$0	0						
Hydrodynamic Separators	\$0	\$0	\$0	0						
2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments				
Street Sweeping	\$0	\$0	\$0	0						
Green Lot	\$0	\$0	\$0	0						
Green Street	\$0	\$0	\$0	0						
Green Mall	\$0	\$0	\$0	0						
Rain Barrells	\$0	\$0	\$0	0						
Smart Irrigation systems	\$0	\$0	\$0	0						
Diversions	\$0	\$0	\$0	0						
Trash Segregation	\$0	\$0	\$0	0						
Hydrodynamic Separators	\$0	\$0	\$0	0						
2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments				
Street Sweeping	\$0	\$0	\$0	0						
Green Lot	\$0	\$0	\$0	0						
Green Street	\$0	\$0	\$0	0						
Green Mall	\$0	\$0	\$0	0						
Rain Barrells	\$0	\$0	\$0	0						
Smart Irrigation systems	\$12,000	\$0	\$0	0						
Diversions	\$0	\$0	\$0	0						
Trash Segregation	\$6,000	\$0	\$0	0						
Hydrodynamic Separators	\$70,000	\$0	\$0	0						

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$12,000	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Hydrodynamic Separators	\$70,000	\$0	\$0	0		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$12,000	\$74,000	\$0	1	5	
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$40,000	\$0	1	3	
Hydrodynamic Separators	\$70,000	\$462,000	\$0	1	4	
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$0	\$0	\$0	\$0		
2008	\$0	\$0	\$0	\$0		
2009	\$88,000	\$0	\$0	\$88,000		
2010	\$88,000	\$0	\$0	\$88,000		
2011	\$88,000	\$576,000	\$0	\$664,000		
Total	\$264,000	\$576,000	\$0	\$840,000		

Tijuana - TMDL Cost

BMPs	Design cost	Capital cost	O&M cost	2007	2008	2009	2010	2011	# of units	Comments
Street Sweeping	It is equivalent to 15 % Of the Capital cost in the Following Year	\$525,000	It is equivalent to the 2 % of the Capital Cost of the BMP implemented in the previous year and continuing maintenance of the BMP corresponding to the previous years	0	0	0	0	0	Enter the required number of units for the corresponding activity in the # of units Column.	Enter 0 for none and 1 for yes under the respective Fiscal Years.
Green Lot		\$1,154,000		0	0	0	0	0		
Green Street		\$1,386,000		0	0	0	0	0		
Green Mall		\$2,382,000		0	0	0	0	0		
Rain Barrells		\$1,553,000		0	0	0	0	0		
Smart Irrigation systems		\$50,000		0	0	0	0	0		
Diversions		\$773,000		0	0	0	0	0		
Trash Segregation		\$27,000		0	0	0	0	1		
Sediment and peak flow Project		\$312,000		0	0	0	0	0		

Tijuana - TMDL Cost

2007	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Sediment and peak flow Project	\$0	\$0	\$0	0		

2008	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$0	\$0	\$0	0		
Sediment and peak flow Project	\$0	\$0	\$0	0		

2009	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Sediment and peak flow Project	\$0	\$0	\$0	0		

2010	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$0	\$0	0		
Sediment and peak flow Project	\$0	\$0	\$0	0		
2011	Design cost	Capital cost	O&M cost	# of units	Project #	Comments
Street Sweeping	\$0	\$0	\$0	0		
Green Lot	\$0	\$0	\$0	0		
Green Street	\$0	\$0	\$0	0		
Green Mall	\$0	\$0	\$0	0		
Rain Barrells	\$0	\$0	\$0	0		
Smart Irrigation systems	\$0	\$0	\$0	0		
Diversions	\$0	\$0	\$0	0		
Trash Segregation	\$6,000	\$40,000	\$0	1	3	
Sediment and peak flow Project	\$0	\$0	\$0	0		
Total Calculations	Design Cost	Capital Cost	O&M Cost	Total / Year		
2007	\$0	\$0	\$0	\$0		
2008	\$0	\$0	\$0	\$0		
2009	\$6,000	\$0	\$0	\$6,000		
2010	\$6,000	\$0	\$0	\$6,000		
2011	\$6,000	\$40,000	\$0	\$46,000		
Total	\$18,000	\$40,000	\$0	\$58,000		