

STORM WATER MANAGEMENT
PROGRAM
NPDES PHASE II SMALL MS4 PERMIT

Los Osos Community Services District

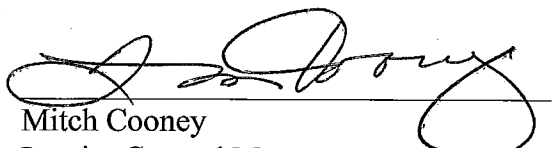



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SCOPE

The Regional Water Quality Control Board has State listed the Los Osos/Baywood Park community as a municipality required to comply with the Phase II Final Rule General Permit due to its dense urbanized area and discharge of storm water to a sensitive water body. In order to comply with the State's General Permit, the Los Osos Community Services District submitted to the Regional Water Quality Control Board a Notice of Intent and a Storm Water Management Program in March 2003. Attached is a revision of the original SWMP upon your request.

To meet this requirement, the Los Osos Community Services District (District) originally contracted with John L. Wallace & Associates in 2003 to prepare this Storm Water Management Program. The scope of this report includes the following:

1. An assessment of the District's existing management and fiscal resources.
2. An assessment of the District's existing Best Management Practices (BMPs).
3. A map of the District's facilities. A supplemental discussion of the mapped facilities will also be provided.
4. A discussion of the selection criteria for the BMPs along with management availability.
5. A discussion of the District's legal authority within the community.
6. An assessment of the necessary BMPs for the six elements to reduce storm water runoff pollution to the maximum extent possible. The BMPs will include measurable goals and a time frame for implementation.
7. A discussion on the reporting, monitoring and updating process the District will follow to comply with the NPDES Permit regulations.

INTRODUCTION

The United States Environmental Protection Agency (EPA) has expanded on the existing Phase I Storm Water Program, established in 1990, to include small municipal separate storm sewer systems. This program is known as the National Pollutant Discharge Elimination System (NPDES) Phase II Final Rule. The Los Osos Community Services District has been identified, by EPA, as a dense urbanized area and a discharger to a sensitive water body and therefore, is required to prepare and submit this Storm Water Management Program (SWMP) to comply with the requirements set forth in the Phase II program.

Phase I Storm Water Program

The EPA enacted the Phase I Storm Water Program in 1990 following the passage of the Clean Water Act. Phase I addressed storm water runoff from medium or large municipal separate storm sewer systems (MS4s) generally serving populations of 100,000 or greater, construction activity disturbing five acres of land or greater, or ten categories of industrial activity.

Phase II Final Rule

In order to better the quality of our Nation's water the EPA enacted the Phase II Final Rule Program. Phase II includes urbanized areas with populations greater than 10,000 and construction activities of one acre or more.

The Phase II Final Rule requires that operators of small MS4s design a SWMP to:

- Reduce the discharge of pollutants to the "maximum extent practicable" (MEP);
- Protect water quality; and
- Satisfy the appropriate water quality requirements of the Clean Water Act.

In order to meet these requirements, the EPA has developed six minimum control measures (MCMs) to be addressed as part of the SWMP. The six MCMs are as follows:

1. Public Education and Outreach
2. Public Participation/Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff Control
5. Post-Construction Runoff Control
6. Pollution Prevention/Good Housekeeping

Within these six MCMs, the owner or operator of a small MS4 is required to develop and implement Best Management Practices (BMPs) and measurable goals. The BMPs proposed are programs to be used by the District to reduce storm water pollution at LOCSD facilities and dedicated drainage basins. The programs encompass a broad scope and will impact drainage, Vista de Oro septic system, Bayridge Estates septic system, water, parks, and solid waste services. Additionally, the MS4 must establish a time frame to complete the BMPs. The BMPs are required to reduce pollutants to the “maximum extent possible” (MEP). The owner or operator of the small MS4 is required to complete annual monitoring and submit an annual report to the local Regional Water Quality Control Board (RWQCB) to determine if the BMPs established are reducing storm water pollutants to the MEP. Pollutants of concern are sediment and silt caused by agriculture and erosion from developed and undeveloped properties.

District Requirements

The Community of Los Osos lies within the unincorporated, coastal area of San Luis Obispo County, just south of the City of Morro Bay. Los Osos is bordered on the northwest by the Morro Bay Estuary and Morro Bay State Park; to the east by Los Osos Creek and its riparian corridor; and to the south and southwest by the Irish Hills and Montaña de Oro State Park. The Los Osos Community Services District was formed in 1998. At that time, the District obtained operation and maintenance responsibilities for water, trash, Vista de Oro septic system, Bayridge Estates septic system, street lighting, parks and recreation, and limited drainage facilities from the County of San Luis Obispo (County). The County retains responsibility for planning, land use, grading and building permitting, and roads.

The Phase II NPDES permit recognizes the County as an owner or operator of a small MS4, and the County is therefore, required to submit a Storm Water Management Program. The County’s jurisdiction includes the storm water runoff generated from the streets of the Los Osos/Baywood Park community, and therefore the County’s NPDES permit will encompass BMPs that address these facilities. The Phase II NPDES permit also recognizes that the Los Osos/Baywood Park area discharges into a sensitive water body, and therefore the District was also included as an owner or operator required to submit a Storm Water Management Program. The District’s SWMP will deal directly with the storm water runoff of facilities owned and operated by the District. The District will coordinate with the County for public outreach, education, and involvement programs designed to reach the entire Los Osos/Baywood Park community. The facilities, owned and operated by the District, are as follows:

- Pump Station at 8th Street and El Moro Avenue;
- 6th & El Moro Pumps;
- Pump Station at Paso Robles Avenue and 16th Street;
- Pump Station on Mitchell Drive;
- Madera Retention Basin for Cabrillo Estates;
- Bay Oaks Retention Basin for the Bayridge Development;

- Tierra and Tierra East Retention Basins;
- Los Arboles Retention Basin for the Vista de Oro Development.
- Municipal Operations Facility and well site at 953 El Moro Avenue;
- 3rd Street well;
- 10th Street well and water storage tank;
- Palisades well;
- South Bay well;
- 16th Street North and South tanks;
- Bayridge wastewater handling facility on Bay Oaks Dr.;
- Vista de Oro wastewater handling facility on Pecho Rd.;
- Ferrell Well Site;

In addition to these facilities, the Los Osos Community Services District acquired approximately 13 acres of property at the North West corner of Los Osos Valley Road and Palisades in March 2003. This is referred to as the Tri-W site. There are no municipal operations at this site and storm water does not discharge to a water of the US as the land acts as a retention basin and storm water percolates into the ground.

The District owns 81.18 acres South of Highland Drive at Broderson which is referred to as the Broderson site. This property is undeveloped and was purchased as part of mitigation for the Tri-W site. There are no municipal operations at this site and storm water does not discharge to a water of the US as it percolates on the property.

The District owns the vacant lot at 501 Highland. This was purchased for future water tank to facilitate fire flow and there are no municipal operations at this site. There is no storm water discharge to a water of the US at this site as the water percolates on the property.

The County will incorporate BMPs to encompass other storm water runoff facilities within the community.

STORM WATER MANAGEMENT PROGRAM

The Community of Los Osos/Baywood was formerly a county services area under the jurisdiction of the County of San Luis Obispo. In 1998 the Los Osos Community Services District (LOCSO) was formed and began providing utility services to the community. The LOCSO responsibility for storm water management is restricted to LOCSO facilities and dedicated drainage basins. The County remains the overall governing authority for planning, land use, grading and building permitting, and roads with regard to storm water runoff management.

Management Resources

The Utility Systems Manager of the District oversees the operations of the storm drain facilities formerly mentioned. The District Utility Systems Manager also oversees the operations of a portion of the community's water system, solid waste management collection and disposal, Vista de Oro septic system, Bayridge Estates septic system, parks and recreation, and the future sewer system. The Utility Systems Manager will be responsible for coordinating, implementing, and updating the Storm Water Management Program for the District. The Utility Systems Manager will allocate resources and delegate program management to District staff members for development and implementation of the SWMP.

Fiscal Resources

The District currently funds their existing BMPs under the drainage fund and the administrative fund. The District will continue to use this mechanism to fund new BMPs. In addition, the District will explore grant opportunities to offset the capital expense of the new BMPs. Each fiscal year's budget will account for the year's BMP schedule. The District will also coordinate with the County and other local agencies to produce area-wide educational material to reduce fiscal impacts. As described below, non-profit organizations will also assist in the development, organization and management of several of the BMP programs.

Stormwater Pollutants of Concern

Pollutants of Concern generally fall within one of two categories: 1) pollutants associated with soil disturbance and 2) pollutants entering the system from other surface runoff. These pollutants are usually associated with land use and enter waterways through runoff from urban surfaces.

Section 303(d) of the Clean Water Act requires States to identify waters not attaining applicable water quality standards and to develop Total Maximum Daily Loads (TMDLs) for pollutants. The State complies with this requirement by periodically assessing the conditions of the rivers, lakes and bays and identifying them as "impaired" if they do not meet water quality standards. These waters, and the pollutant causing the impairment, are placed on the Clean Water Act Section 303(d) List of Impaired Waterbodies. In addition to creating this list of impaired waterbodies, the Clean Water Act mandates that the states rank each

waterbody by factors such as the severity of the problem, potential to restore beneficial uses, availability of data, etc., and develop TMDLs for each waterbody listed.

A TMDL is the amount of a particular material that a waterbody can assimilate on a regular basis and still remain at levels that protect beneficial uses designated for that waterbody. A TMDL is approved by the Regional Water Quality Control Board, the State Water Resources Control Board, and the US Environmental Protection Agency. Once a TMDL is approved, it establishes the following:

- 1) An allowable amount of a pollutant to a waterbody;
- 2) Proportional responsibility for controlling the pollutant;
- 3) Numeric indicators of water quality; and
- 4) Implementation to achieve the allowable amount of pollutant loading.

TMDLs are developed by analyzing information from existing or commissioned studies, and/or by stakeholders interested in the waterbody or conditions being investigated. TMDL development results in a definition of water quality problems in a waterbody or watershed, a numeric value for the TMDL, and an implementation plan that identifies how the problems will be solved and the TMDL achieved. The implementation plans identify new requirements, based on existing regulations, in conjunction with other existing water quality management activities. The implementation plans identify which requirements or activities apply to which agencies, landowners, resource managers, and/or the public.

The LOCSO acknowledges pollutants of concern found in urban runoff and note that these are all potential categories of pollutants that may need to be addressed now and in the future. These pollutants include: sediments, non-sediment solids, nutrients, pathogens, oxygen-demanding substances, petroleum hydrocarbons, heavy metals, floatables, polycyclic aromatic hydrocarbons (PAHs), trash, and pesticides and herbicides.

The following chart lists the waterbodies that are impaired by pollutants and the potential sources of pollutants. The pollutants identified on the 303(d) list are Pollutants of Concern for Los Osos:

*(Those requiring TMDLS (A), being addressed by USEPA approved TMDLS (B), and being addressed by actions other than TMDLS (C))

Waterbody	Pollutant	TMDL Requirement Status*	Potential Sources
Los Osos Creek	Fecal Coliform	B	<ul style="list-style-type: none"> • Source Unknown
Los Osos Creek	Low Dissolved Oxygen	A	<ul style="list-style-type: none"> • Agriculture • Pasture grazing – riparian and/or upland • Urban runoff/storm sewers • Natural Sources
Los Osos Creek	Nitrate	B	<ul style="list-style-type: none"> • Source Unknown
Los Osos Creek	Nutrients	B	<ul style="list-style-type: none"> • Agriculture • Irrigated crop production • Agricultural storm runoff • Agricultural return flows
Los Osos Creek	Sedimentation/Siltation	B	<ul style="list-style-type: none"> • Agriculture • Irrigated Crop Production • Construction/Land Development • Resource Extraction • Channelization • Channel Erosion • Natural Sources
Morro Bay	Pathogens	B	<ul style="list-style-type: none"> • Range Grazing – Upland • Urban Runoff/Storm sewers • Septage disposal • Natural sources • Nonpoint Source
Morro Bay	Sedimentation/Siltation	B	<ul style="list-style-type: none"> • Agriculture • Irrigated Crop Production • Construction/Land Development • Resource Extraction • Channelization • Channel Erosion
Morro Bay	Dissolved Oxygen	A	<ul style="list-style-type: none"> • Source Unknown

In addition, the Morro Bay National Estuary Program (MBNEP) conducts First Flush monitoring and Urban Watch programs, from these programs the pollutants of concern identified by the MBNEP are as follows:

- E. Coli
- Turbidity
- pH
- Total Dissolved Solids (TDS)
- Orthophosphates
- Metals (zinc, copper, and nickel)

A report is provided to the Central Coast Regional Water Quality Control Board with copies to the District, County of San Luis Obispo, and other interested parties on a yearly basis. The District appreciates the efforts of the MBNEP volunteers and staff.

Established Best Management Practices

The District has implemented several BMPs that address storm water runoff issues for its facilities. In addition, the County and other non-profit organizations currently operate BMPs within the Los Osos/Baywood community (Please refer to the County of San Luis Obispo Storm Water Management Program). The BMPs and a description of the activities currently being implemented by the District are as follows:

Public Education and Outreach

Involvement with the Morro Bay National Estuary Program (MBNEP) - The District is involved with the MBNEP and promotes activities developed by the MBNEP to reduce urban runoff. The District's Director, Chuck Cesena currently serves on the MBNEP Executive Committee. The MBNEP receives funding from the U.S. EPA and is administered by the Bay Foundation (a local non-profit organization), and the California Regional Water Quality Control Board. This partnership is unusual for NEP's, as most are administered by State or Local government entities. The MBNEP has developed and is implementing several BMPs including a Soil Erosion Group which is looking at providing incentives for landowners to participate in programs aimed at reducing erosion and maintaining topsoil. A Research Needs Workshop was also held which documented a wide range of issues in the bay and watershed that require further investigation. Technical studies that address the issues identified by the planning and monitoring processes are underway and a volunteer monitoring program has been developed to gather additional water quality and habitat information and to increase public awareness. Additional information on the MBNEP can be accessed at <http://www.mbnep.org/>

Vector Control FAQ Sheet - The District created a mosquito abatement FAQ sheet that is distributed to problem neighborhoods as door hangers. The FAQ sheet includes information on the importance of eliminating standing water around the house. A sample of the FAQ sheet is provided in Appendix A.

Public Participation/Involvement

Water Operations/Finance Advisory Committee (WFAC) - The Los Osos/Baywood community is proactive with water and drainage issues. In January of 1999, the District established a Drainage Committee to advise on drainage issues, which now has been integrated into the Water Ops Committee. The Water Ops advisory committee is staffed by the Utility Systems Manager and appointed members of the community including a Board member liaison. The committee meets once a month to discuss a range of issues with respect to water, drainage, and finances and makes recommendation to the Board of Directors and/or staff for resolving problems. The LOCSD Utilities department notifies the County Public Works Department via phone, email, or in writing when the issue/concern is

within the purview of the County. Revisions of the SWMP will be placed on the committee agenda to facilitate additional public participation and involvement.

Illicit Discharge Detection and Elimination

The District has developed a map with a 1,500 ft radius surrounding all wells in the District water system and has been tracking commercial businesses (i.e. gas stations, automotive repair shops, etc.) that have daily facility wash-downs within these plotted zones. The District has provided these businesses with information on MTBE runoff pollution and has encouraged new runoff control practices.

Septic System Maintenance Program – The District maintains two community septic systems in Vista de Oro and Bayridge Estates and provides semi-annual reports to the Regional Water Quality Control Board in compliance with our waste discharge requirements order numbers 99-72 and 99-73 respectively. The LOCSD is listed as an implementing party for the Morro Bay Pathogens TMDL and the Vista de Oro and Bayridge Estates community septic systems are maintained by the District. Periodically residents of Vista de Oro and Bayridge Estates are noticed by door hanger when irregular items are found in their community septic systems. The District addresses septic system maintenance through public education and outreach. Brochures produced by the EPA entitled, “A Homeowner’s Guide to Septic Systems” are available in the District office for all residents of Los Osos. Local channel 20 provides public announcements regarding septic system maintenance hints especially reminding all residents in Los Osos that they are on septic systems. The MBNEP created an information pamphlet named the “Bayside Living Guide” which the City of Morro Bay and Los Osos CSD provide the public at our offices. This guide offers information on septic system maintenance on pages 14 & 15. The San Luis Obispo County Environmental Health Department is contacted at 805-781-5544 in the event of a septic system failure. The SLO County Department of Planning and Building has a homeowners guide to On-Site Sewage Disposal Systems. We have these guides in printed format available at our office, also. Please visit the following web site for more septic system brochures: www.slocounty.ca.gov/AssetFactory.aspx.

Construction Site Runoff Control

** Currently BMPs are not established for this MCM. BMPs under this minimum control measure will be addressed by the County for the Los Osos/Baywood Park community. Please refer to Minimum Control Measure #4, BMP ID#’s CON1, CON2, & CON3 of the SLO County SWMP

Post-Construction Runoff Control

** Currently BMPs are not established for this MCM. BMPs under this minimum control measure will be addressed by the County for the Los Osos/Baywood Park community. Please refer to Minimum Control Measure #5, BMP ID# PC2 & PC3 of the SLO County SWMP

Pollution Prevention/Good Housekeeping

Business Plan - The District has developed and implemented a Business Plan for hazardous waste spills. The Business Plan is used by the District utilities department and consists of identification and location of facilities, emergency response plans and procedures, safety procedures, chemical inventories, owner/operator identification, and an employee training program.

Urban Water Management Plan - The District adopted an Urban Water Management Plan (UWMP) in December 2000 for the Los Osos/Baywood Community. The UWMP is a proactive tool utilized by the District to implement water conservation efforts. The UWMP aims at reducing the water demand by implementing a series of BMPs over several years. The BMPs include ways to reduce urban runoff from excessive outdoor residential irrigation. The District will be updating the Urban Water Management Plan in the fiscal year 2008-2009.

Integrated Waste Management Program - The District has authority over waste management and has contracted out curb side pick-up in the Los Osos/Baywood community to Mission Country Disposal. In addition to the curb side pick-up, the District has developed two programs to reduce the collection of debris around the homes in the community. Fall Cleanup Day is a one day event that happens once a year and consists of pick-up of large waste items such as appliances. The second program is a chipping day pick-up, which is offered twice a year. The program allows residents to remove large brush from their property and have it chipped at no expense to the resident. These programs eliminate needless "junk" and debris on and around the residential properties which are contributing factors to urban runoff pollution. Please refer to the District web site for more information at: <http://www.losososutilities.org/solidwaste.html>

Drainage Basin Maintenance Program - The District has developed a Basin Maintenance Program, which monitors the drainage basins associated with District facilities. The District visually inspects the basins routinely for nuisances (rodents, mosquitoes, odors, etc.) and takes action to eliminate problems. The program also assesses major maintenance efforts. The District conducts all the site maintenance activities for grounds keeping and debris removal to assure the facilities integrity and function. Drainage basins are cleared during the dry season, prior to the wet season, and after significant wet weather events. The collected waste is hauled off site and incorporated

into our green waste. All drainage inlets are vacuumed during the dry season and cleared of debris. All sites are inspected at least once a week and more often during wet weather.

NEP Mini-Grant - The District was approved for a mini-grant, from the NEP, to complete Phase I of the 8th Street and El Moro Avenue Filter Backwash Retention Project. The mini-grant will be used to offset costs for design engineering and permitting fees for the project. The filter backwash retention project was completed in March 2008. The District will continue to work with the NEP to obtain grants.

System Map

The District owns and operates four pump stations and four retention basins which are funded with drainage assessment income. The facilities are described, in detail, below:

Pump Station at 8th Street and El Moro Avenue - The District owns and operates a storm water pump station at the corner of 8th Street and El Moro Avenue. The system discharges storm water to Morro Bay at a maximum discharge rate of 5,700 gpm.

Pump Station at Paso Robles Avenue and 16th Street - The District owns and operates a storm water pump station at the corner of 16th Street and Paso Robles Avenue. The system discharges to a concrete ditch west of South Bay Boulevard at a maximum discharge rate of 1,065 gpm.

Pump Station on Mitchell Drive - The District owns and operates a storm water pump station on Mitchell Drive. The system discharges to Morro Bay at a maximum of 734 gpm.

Pump Station at 6th & El Moro Avenue - The District owns and operates two small pumps on the North and South corners of 6th & El Moro. The system discharges to Morro Bay at a maximum 650 gpm.

Madera Retention Basin for the Cabrillo Estates located off Madera Street - The District maintains the retention/detention basin in the Cabrillo Estates off of Madera Street.

Bay Oaks Retention Basin for Bayridge Estates - The District owns and maintains the retention basin in the Bayridge Estates, located off Bay Oaks Drive.

Tierra and Tierra East Retention Basin - The District owns and maintains the retention basins located at the east end of Tierra Drive.

Los Arboles Retention Basin for the Vista de Oro Development - The District

owns and maintains the retention basin located in the Vista de Oro development located off of Los Arboles Way.

BMP Selection Criteria

The District has developed a BMP list that incorporates existing and new BMPs to reduce the storm water pollution to the maximum extent possible. Due to the proactive nature of the community, the existing BMPs being implemented work towards decreasing the pollutants entering into Morro Bay, however, additional BMPs are needed to meet the MEP requirement. The additional BMPs were selected based on several factors; cost, benefit, ease of implementation, and use of existing activities. A selection of the BMPs were generated from the County of San Luis's Obispo's Storm Water Management Program. The District is utilizing the BMPs recommended by the County so that the District and the County can achieve the same goal of reducing storm water pollution. The additional BMPs, listed below, will be implemented over the next five years and will be coordinated with the previously listed existing BMPs to reach the MEP goal.

Legal Authority

As previously indicated, the District assumed authority over water, Vista de Oro septic system, Bayridge Estates septic system, limited drainage, solid waste, street lighting and parks and recreation services after its formation in 1998. The District's rules, regulations, ordinances, and enforcement authority are limited to issues impacting these services. The District interacts with the development of the community through its will-serve process, which was established to provide an orderly procedure for extending service to new customers. The District does not issue building permits, land use approvals, or other discretionary or ministerial permits not directly related to its services. These functions are performed by the County. The county also plans, operates, and maintains the road systems within the community. As the permitting authority, the County will continue to be responsible for construction-phase and post-construction phase inspections. BMPs that include enforcement activities against individual properties or developers will therefore be addressed in the County's SWMP.

New Best Management Practices

Below is a description of the minimum requirements and the new BMPs that were determined to be the most beneficial to the District. The District will also implement storm water pollution prevention procedures into new facilities designed or operated by the District.

Public Education and Outreach

The minimum requirements of Public Education and Outreach are to distribute educational materials and perform outreach to inform citizens about the impacts polluted storm water can have on water quality. The following BMPs satisfy this minimum requirement:

Bear Pride Newsletter – The District publishes a quarterly newsletter mailed to all residents within the District. This newsletter provides information to the residents about community activities, presents educational materials, and describes District projects and activities. The District will utilize this existing media source to include articles discussing the impacts of storm water runoff on water quality and ways the community can help protect the environment. Funding for fiscal year 2008-2009 newsletter was cut due to financial constraints. The Bear Pride Newsletter will be budgeted for again in the next fiscal year.

District Website - The District maintains a website containing information on many District projects and activities. The District will utilize this existing media source to include articles discussing the impacts of storm water runoff on water quality and ways the community can help protect the environment. Please refer to:

http://www.losososutilities.org/drainage_pollution_prevention.html for additional information about storm water pollution prevention. For information about our drainage facilities please look at our drainage web site: <http://www.losososutilities.org/drainage.html>

Educational Presentations - The District will develop educational presentations tailored for the appropriate age level. The presentations will educate the public about storm water pollution and water quality. This item will be performed in coordination with the corresponding County BMP.

Educational Paraphernalia - The District will develop educational paraphernalia to be distributed through various media sources (e.g. mailers, door hangers, signs, etc.) This BMP will include, but not be limited to the following topics:

- Lawn and Garden Activities,
- Trash Management,
- Household Hazardous Waste Disposal, and
- Water Conservation

Public Participation/Involvement

The minimum requirements of Public Participation/Involvement are to provide opportunities for citizens to participate in program development and implementation, including effectively publicizing public hearings and/or encouraging citizen representatives on a storm water management panel. The following BMPs satisfy this minimum requirement:

Stakeholder Meeting - The District will attend periodic stakeholder meetings. Stakeholders, including citizens, school groups, community leaders, local

and state government representatives, and business owners, will be included in meetings and will address issues of storm water management throughout the County of San Luis Obispo. The LOCSD is a member of the SLO County Partners for Water Quality, an inter-agency coalition made up of fourteen agencies in San Luis Obispo County which seek to comply with the NPDES storm water regulations.

Illicit Discharge Detection and Elimination

The minimum requirements of Illicit Discharge Detection and Elimination are to develop and implement a plan to detect and eliminate illicit discharges to the storm water system, Vista de Oro septic system, Bayridge Estates septic system, including developing a system map and informing the community about hazards associated with illegal discharges and improper disposal of wastes. Non-stormwater discharges are also addressed here. The following BMP satisfies this minimum requirement:

Illegal Dumping Program - The District inspects the drainage basins, Vista de Oro septic system, Bayridge Estates septic system, Cabrillo Estates retention basin and all other operations facilities on a weekly basis. “No Dumping” signs are posted at the facilities.

Irrigation water/Landscape irrigation/ Lawn watering – the District has no facilities that are irrigated. The few commercial properties with landscape irrigation are monitored by volunteers, the community and business owners.

Springs and rising groundwater – Los Osos does not have any surfacing springs. The water table is high in some areas of Los Osos. Therefore this does not apply.

Uncontaminated groundwater infiltration to separate storm sewers – this is not applicable at the time of this writing. Once the County sewer system is constructed and should the municipal operations be provided by District operators – this issue will be addressed.

Individual residential car washing - The District provides public education and outreach to residents targeting residential car washing from the water conservation perspective along with storm water pollution prevention. Pamphlets and local channel 20 address the storm water pollution prevention and water conservation perspectives.

Water from Crawl Space Pumps, Footing Drains, Foundation Drains – The District does not have crawl space pumps, footing drains, or foundation drains in the area of service. This does not apply.

Uncontaminated Pumped Groundwater – Groundwater may be pumped from construction sites during excavation. The contractor must have a storm water

pollution prevention program in place prior to being issued a permit by the County of San Luis Obispo.

Diverted Stream Flows – There are no diverted stream flows in Los Osos.

De-chlorinated Swimming Pool Discharges: The District does not own a swimming pool. This does not apply.

Flows from riparian habitats and wetlands – This is not applicable.

Air Conditioning Condensation – There are no air conditioners in Los Osos. So this is non-applicable.

Construction Site Runoff Control

The minimum requirements of construction Site Runoff Control are to develop, implement, and enforce an erosion and sediment control program for construction activities that disturb one or more acres of land.

The District does not issue or enforce construction permits. These functions are performed by the County of San Luis Obispo. The District must submit permit applications to the County for District construction projects. Therefore, the District has not included any new BMPs in the SWMP. BMPs for Construction Site Runoff Control are presented in the County of San Luis Obispo's SWMP. For more information go to the following URL: <http://www.slocounty.ca.gov/Assets/PW/stormwater/chap4.pdf>

Post-Construction Runoff Control

The minimum requirements for Post-Construction Runoff Control are to develop, implement, and enforce programs to address discharges of post-construction storm water runoff from new development and redevelopment areas. Applicable controls could include preventative actions such as protecting sensitive areas (e.g. wetlands) or the use of structural BMPs such as grassed swales or porous pavement.

The District does not issue or enforce construction permits. These functions are performed by the County of San Luis Obispo. The District must submit permit applications to the County for District construction projects. Therefore, the District has not included any new BMPs in the SWMP. BMPs for post-construction runoff control are presented in the County of San Luis Obispo's SWMP. For more information go to the following URL: <http://www.slocounty.ca.gov/Assets/PW/stormwater/chap4.pdf>

Pollution Prevention/Good Housekeeping

The minimum requirements for Pollution Prevention/Good Housekeeping are to

develop and implement programs with the goal of preventing or reducing pollutant runoff from municipal operations. The program must include municipal staff training on pollution prevention measures and techniques (e.g. regular street sweeping, reduction in the use of pesticides or street salt, or frequent catch-basin cleaning). The following BMPs satisfy this minimum requirement:

Visual Inspection Program - The District inspects conditions in District material storage and outdoor activity areas on a daily basis. The District will ensure that the personnel conducting the inspections have appropriate training.

Alternative Product Program - The District will promote the use of safer alternative products in municipal operations. The District will educate its employees and the public about available alternative products. Please refer to our drainage web site: http://www.losososutilities.org/drainage_pollution_prevention.html and at the bottom the link to: <http://www.ourwaterourworld.org/>

Hazardous Material Storage - The District follows all emergency guidelines and protocol for proper storage of hazardous materials. The San Luis Obispo County Department of Environmental Health has records of our hazardous materials and inspect our well sites once a year. The District provides regular maintenance of hazardous material storage areas. The District will distribute materials in the workplace that will educate the employees about hazardous materials.

Used Oil Recycling - The District will coordinate with local waste management entities to educate the public about handling and disposal of used motor oil. Please refer to our web site: <http://www.losososutilities.org/solidwaste.html>. The operations crew recycles used oil from the fleet vehicles at the AutoZone in Morro Bay.

Employee Training - The District provides educational opportunities for the employees in-house. The employees are educated with reference to storm water management, sources of contaminants, and BMPs for those employees working in the field.

Vehicle Washing - The District will ensure that storm water contamination is considered in District vehicle washing areas. Designated areas for vehicle washing are at the water operations facility at 8th and El Moro and the Los Osos Rainmaker Car wash on 11th Street.

Distribution System Flushing - The District ensures that storm water contamination is considered during flushing events. The water released during these events is diffused and then percolated back into the soil.

District Best Management Practices, Measurable Goals and Time Schedule

A list of established and new BMPs for the District are provided in Table 1. The table also provides information regarding the measurable goals. Table 2 provides the time schedule for when the BMPs are expected to be implemented. All BMP's will be performed by LOCSD Utilities staff.

BMP Monitoring and Reporting Program

The requirements of the SWMP are to improve the water quality in receiving waters to the maximum extent possible. Monitoring programs, established and proposed, will be an important tool in determining the overall effectiveness of the programs. The District will coordinate with other agencies, including the MBNEP, to conduct water quality testing on the affected receiving waters. The District will also team with other agencies to conduct public surveys on the overall awareness of storm water pollution and to determine if the media forums being used by the District are meeting the expected goal. Monitoring effluents will be reported annually to determine if changes to the SWMP are required. Reporting records will also be developed to track the progress of the BMPs. These records will be provided to the RWQCB with the annual update. The records will also be on file for five years at the District office.

SWMP Evaluations and Updates

The District will evaluate the SWMP every year for its effectiveness in reducing storm water pollution. The District will determine first, the effectiveness of the individual BMPs and second, the effectiveness of the entire BMP program. The LOCSD will commit in the first year of permit coverage to go through each BMP to track and assess effectiveness. At that time, the District will update the SWMP. The District will provide an annual report to the RWQCB. The updates will include any revisions made to the SWMP and reporting records obtained during the year.

The NPDES Phase II Final Rule and the MS4 General Permit require that the LOCSD report annually on the progress of SWMP implementation. The District must track and assess its program to ensure BMP effectiveness and must conform to other monitoring requirements that may be imposed by the RWQCB.

A report will be provided every year. The report will summarize the activities performed throughout the reporting period (July 1 through June 30) and must include:

- the status of compliance with permit conditions;
- an assessment of the appropriateness and effectiveness of the identified BMPs;
- the status of the identified measurable goals;
- the results of information collected and analyzed, including monitoring data, if any, during the reporting period;

- a summary of the stormwater activities the District plans to undertake during the next reporting cycle;
- any proposed changes to the SWMP along with a justification of why the changes are necessary; and
- any change to the person or persons implementing and coordinating the SWMP.

Monitoring:

A monitoring program will include:

- Assessing compliance with this General Permit
- Measuring and improving the effectiveness of the SWMP
- Assessing the chemical, physical, and biological impacts on receiving waters resulting from urban runoff
- Characterizing stormwater discharges
- Identifying source of pollutants; and
- Assessing the overall health and evaluating long-term trends in receiving water quality.”

Recordkeeping Requirements:

The District must keep records required by the MS4 General Permit for at least five years or the duration of the General Permit if continued. The RWQCB Executive Officer may specify a longer time for record retention. The purpose of the annual performance review is to evaluate:

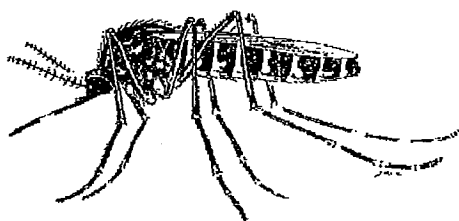
- (1) SWMP’s effectiveness;
- (2) Implementation of the SWMP;
- (3) Status of measurable goals; and
- (4) Effectiveness of BMPs; and
- (5) Improvement opportunities to achieve MEP.

Non-profit organizations like the Morro Bay National Estuary Program are currently monitoring water quality in the Los Osos region.

In addition to monitoring water quality and visual inspections, the District will monitor the individual BMPs in the SWMP. Monitoring the individual BMPs will include receiving public comments, keeping track of activities, and collecting any other information that may assist the District in evaluating the BMPs.

Evaluation of the SWMP will occur at two levels: 1) evaluation of individual BMPs and 2) evaluation of overall program effectiveness. The effectiveness of individual BMPs will be assessed on an annual basis in terms of progress made toward achieving the measurable goals. Based on the SWMP evaluation, revisions to the SWMP will be made as necessary. This update process will allow the SWMP to continuously improve to better fit the needs of the community.

APPENDIX A
VECTOR CONTROL FAQ SHEET



Mosquito Abatement

The most effective way to control mosquitoes is to find and eliminate their breeding sites. Homeowners can take the following steps to prevent mosquito breeding on their own property:

1. Destroy or dispose of tin cans, old tires, buckets, unused plastic swimming pools or other containers that collect and hold water. Do not allow water to accumulate at the base of flowerpots or in pet dishes for more than 2 days.
2. Clean debris from rain gutters and remove any standing water under or around structures, or on flat roofs. Check around faucets and air conditioner units and repair leaks or puddles that remain for several days.
3. Change water in birdbaths and wading pools at least once a week and stock ornamental pools with top feeding predacious minnows.
4. Fill or drain puddles, ditches and swampy areas, and either remove, drain or fill tree holes and stumps with mortar.
5. Eliminate seepage from cisterns, cesspools, and septic tanks.
6. Eliminate standing water around animal watering troughs.
7. Irrigate lawns and gardens carefully to prevent water from standing for several days.

**APPENDIX B
LOCSD FACILITIES MAP**



Table 1

District Best Management Practices, Pollutants of Concern, and Minimum Control Measures

Minimum Control Progress Measurements, Target Pollutants of Concern, and BMP Linkages & Comments

BMP ID#	BEST MANAGEMENT PRACTICES (BMPS)	PROGRESS MEASUREMENTS	TARGET POLLUTANTS OF CONCERN	BMP LINKAGES & ALIGNMENT WITH EXISTING ACTIVITIES & COMMENTS
MINIMUM CONTROL MEASURE #1: PUBLIC EDUCATION AND OUTREACH				
PE1-1	Involvement with the MBNEP	<ul style="list-style-type: none"> Retain a committee member on the MBNEP and support the activities sponsored by the MBNEP. 	Pathogens Nutrients Sediment Litter and Trash Pesticides and Herbicides Oil and Grease Metals Organics Oxygen demanding substances Other chemicals from urban surfaces that come in contact with stormwater and non-stormwater discharges	The MBNEP has been providing volunteer monitoring through their "First Flush" program since 2004. The LOCSO obtained a grant from the MBNEP to redirect backwash water from iron manganese filters to a land application (on-site) and discontinued pumping to the bay from the 8 th Street pump facility. This project was completed in 2008. Please see: http://www.losososutilities.org/current_projects_8th.html
PE1-2	Vector Control FAQ Sheet	<ul style="list-style-type: none"> Number of complaints. The established areas are designated through resident complaints. 	N/A	The purpose of this program is to protect the health and safety of the citizens of Los Osos by providing information on how to eliminate the breeding sites of disease bearing mosquitoes. District forces distribute door hanger FAQ sheets to problem areas within the community.
PE1-3	Bear Pride Newsletter & District Website	<ul style="list-style-type: none"> Number of newsletters mailed out each quarter. Number of website hits to measure utilization Update to website regularly. 	Pathogens, Fecal Coliform, Nutrients Sediment, Litter and Trash, Pesticides and Herbicides, Oil and Grease, Metals, Organics, and other discharges.	The newsletter reaches everyone in the District service area and informs them of community activities and various projects being implemented. This BMP also provides information about storm water pollution prevention to anyone with internet

BMP ID#	BEST MANAGEMENT PRACTICES (BMPS)	PROGRESS MEASUREMENTS	TARGET POLLUTANTS OF CONCERN	BMP LINKAGES & ALIGNMENT WITH EXISTING ACTIVITIES & COMMENTS
				access. Please refer to: http://www.losososutilities.org/drainage.html
PE1-4	Educational Presentations for school age children	<ul style="list-style-type: none"> • Number of schools covered each year • Number of students covered each year 	Pathogens, Fecal Coliform, Nutrients Sediment, Litter and Trash, Pesticides and Herbicides, Oil and Grease, Metals, Organics, and other discharges.	Opportunities to partner with the SLO County Partners for Water Quality to get the messages into the classrooms. Develop educational presentations that discuss and explain storm water issues and pollution prevention
PE1-5	Educational Paraphernalia	<ul style="list-style-type: none"> • Amount of educational material distributed 	Pathogens, Fecal Coliform, Nutrients Sediment, Litter and Trash, Pesticides and Herbicides, Oil and Grease, Metals, Organics, and other discharges.	Provide brochures in reception area of office and at public events. Obtain additional information from other participants in the SLO County Partners for Water Quality group. Please refer to: http://www.losososutilities.org/drainage_pollution_prevention.html
MINIMUM CONTROL MEASURE #2: PUBLIC PARTICIPATION AND INVOLVEMENT				
PP2-1	Water Operations Advisory Committee (WAC)	<ul style="list-style-type: none"> • Number of meetings where stormwater issues are on agenda • Number of public in attendance 	Pathogens, Fecal Coliform, Nutrients Sediment, Litter and Trash, Pesticides and Herbicides, Oil and Grease, Metals, Organics, and other discharges.	This is an established BMP that will continue to be implemented. Committee meets once a month to assess water, stormwater, and finances. Revisions of the SWMP will be placed on agenda for more public participation.
PP2-2	Stakeholder Meetings	<ul style="list-style-type: none"> • Number of meetings attended 	Pathogens, Fecal Coliform, Nutrients Sediment, Litter and Trash, Pesticides and Herbicides, Oil and Grease, Metals, Organics, and other discharges.	As a member of SLO County Partners in Water Quality we continue to be educated about new storm water regulations and events various agencies and non-profit groups are hosting, and these meetings are open to the public.

BMP ID#	BEST MANAGEMENT PRACTICES (BMPS)	PROGRESS MEASUREMENTS	TARGET POLLUTANTS OF CONCERN	BMP LINKAGES & ALIGNMENT WITH EXISTING ACTIVITIES & COMMENTS
MINIMUM CONTROL MEASURE #3: ILLICIT DISCHARGE DETECTION AND ELIMINATION				
IL3-1	Illegal Dumping Program	<ul style="list-style-type: none"> Track number of events through inspections Track number of events through citizen complaints 	Pathogens, Fecal Coliform, Nutrients Sediment, Litter and Trash, Pesticides and Herbicides, Oil and Grease, Metals, Organics, and other discharges.	Signs prohibiting dumping are posted at all facilities.
IL3-2	Support and promote the SLO County Integrated Waste Management Authority (IWMA) Recycling and Household Hazardous Waste Programs.	<ul style="list-style-type: none"> Number of Recycling and Household Hazardous Waste materials distributed 	Nutrients (including nitrates and phosphates) Sediment Litter and Trash Pesticides and Herbicides Oil and Grease Metals Organics Oxygen demanding substances Other chemicals from urban surfaces that come in contact with stormwater and other discharges.	Excellent programs are already in place. Links to their website are available at: http://www.losososutilities.org/solidwaste.html
MINIMUM CONTROL MEASURE #4: CONSTRUCTION SITE RUNOFF CONTROL (NO BMPS)				
MINIMUM CONTROL MEASURE #5: POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT (NO BMPS)				
MINIMUM CONTROL MEASURE #6: GOOD HOUSEKEEPING AND POLLUTION PREVENTION FOR MUNICIPAL OPERATIONS				
MO6-1	Business Plan	<ul style="list-style-type: none"> Incorporate the use of the Business Plan Procedures into District facilities 	N/A.	
MO6-2	Urban Water Management Plan	<ul style="list-style-type: none"> Incorporate the use of the Urban Water Management Plan into the design of new District Facilities 	N/A	

BMP ID#	BEST MANAGEMENT PRACTICES (BMPS)	PROGRESS MEASUREMENTS	TARGET POLLUTANTS OF CONCERN	BMP LINKAGES & ALIGNMENT WITH EXISTING ACTIVITIES & COMMENTS
MO6-3	Integrated Waste Management Program	<ul style="list-style-type: none"> Continue providing Fall Clean-up Day Continue providing Chipping Pick-up days 	Nutrients Sediment, Litter and Trash, Pesticides and Herbicides, Oil and Grease, Metals, Organics, and other discharges.	These services are provided once a year for the clean-up day and twice a year for the chipping day. See the following for more information:
MO6-4	Drainage Basin Maintenance Program	<ul style="list-style-type: none"> Logs of conditions of the District's Basins kept. 	Nutrients Sediment, Litter and Trash.	District Utilities forces monitor the basins on a weekly basis during the dry season and daily during the wet season. This information is recorded by the on-call operator.
MO6-5	Los Osos Drainage Feasibility Report	<ul style="list-style-type: none"> Record new drainage projects 	Nutrients Sediment, Litter and Trash, Pesticides and Herbicides, Oil and Grease, Metals, Organics, and other discharges.	Utility forces completed a land application project to eliminate discharging iron and manganese filter rinse water through the 8 th Street drainage station. Click on the link for more information http://www.losososutilitie s.org/current_projects_8t h.html
MO6-6	NEP Mini-Grant	<ul style="list-style-type: none"> Report on grants received and work accomplished 	Nutrients Sediment, Litter and Trash, Pesticides and Herbicides, Oil and Grease, Metals, Organics, and other discharges.	The District Utilities department was awarded a \$5,000 grant to offset the cost of the 8 th Street percolation pond project. We continue to apply for other grant opportunities.
MO6-7	Visual Inspection Program	<ul style="list-style-type: none"> Daily work reports Project reports. 	Nutrients Sediment, Litter and Trash, Pesticides and Herbicides, Oil and Grease, Metals, Organics, and other discharges.	This BMP has been in place since the inception of the District. The utilities on-call operator records visual inspections of all District facilities on a daily basis. The Utilities manager conducts periodic visual inspections of all facilities. The Utilities manager and crew leader have participated in erosion control workshops with CalTrans.

BMP ID#	BEST MANAGEMENT PRACTICES (BMPS)	PROGRESS MEASUREMENTS	TARGET POLLUTANTS OF CONCERN	BMP LINKAGES & ALIGNMENT WITH EXISTING ACTIVITIES & COMMENTS
MO6-8	Hazardous Material Storage	<ul style="list-style-type: none"> • Inventory once a year • Check on a daily basis 	Chemicals and other discharges	The District stores all hazardous materials in cabinets and in buildings at facilities. Procedures are incorporated into the District Business Plan. The District utilities forces review spill prevention and control procedures and practices for stormwater pollution prevention requirements.
MO6-9	Used Oil Recycling	<ul style="list-style-type: none"> • Vehicle maintenance logs 	Oil and Grease	The District uses the Autozone in Morro Bay to recycle used motor oil.
MO6-10	Vehicle Washing	<ul style="list-style-type: none"> • Vehicle maintenance logs 	Oil and Grease, nutrients, and other discharges	The District will implement procedures to prevent stormwater runoff pollution from operations vehicles and equipment washing.
MO6-11	Employee Training	<ul style="list-style-type: none"> • Tack training events 	Nutrients Sediment, Litter and Trash, Pesticides and Herbicides, Oil and Grease, Metals, Organics, and other discharges.	The District will implement procedures to train crew on storm water pollution prevention tips. The crew will periodically review the IDDE minimum control measure fact sheet.

Table 2 Time Schedule for BMP's

Timetable for Best Management Practices

BMP ID#	BEST MANAGEMENT PRACTICES (BMPS)	Implementation Timetable					LOCSD Implementers
		1	2	3	4	5	
PE1-1	Involvement with the MBNEP	X	X	X	X	X	LOCSD Director, Utilities Manager
PE1-2	Vector Control FAQ Sheet	X	X	X	X	X	Utilities Manager, Crew Leader & Crew
PE1-3	Bear Pride Newsletter & District Website		X	X	X	X	Utilities Manager, Utilities Coordinator, & Staff
PE1-4	Educational Presentations for school age children		X	X	X	X	Utilities Manager, Utilities Coordinator, & Staff
PE1-5	Educational Paraphernalia	X	X	X	X	X	Utilities Manager, Utilities Coordinator, & Staff
PP2-1	Water Operations/Finance Advisory Committee (WFAC)	X	X	X	X	X	Utilities Manager, Utilities Coordinator
PP2-2	Stakeholder Meetings	X	X	X	X	X	Utilities Manager, Utilities Coordinator
IL3-1	Illegal Dumping Program	X	X	X	X	X	Utilities Manager, Crew Leader & Crew
IL3-2	Support and promote the SLO County Integrated Waste Management Authority (IWMA) Recycling and Household Hazardous Waste Programs.	X	X	X	X	X	Utilities Manager, Crew Leader & Crew, Utilities Staff
MO6-3	Integrated Waste Management Program	X	X	X	X	X	Utilities Manager, Crew Leader & Crew, Utilities Staff
MO6-4	Drainage Basin Maintenance Program	X	X	X	X	X	Utilities Manager, Crew Leader & Crew
MO6-5	Los Osos Drainage Feasibility Report		X	X	X	X	Utilities Manager, Crew and Staff
MO6-6	NEP Mini-Grant	X	X	X	X	X	Utilities Manager, Utilities Coordinator, & Staff
MO6-7	Visual Inspection Program	X	X	X	X	X	Utilities Manager, Crew Leader & Crew
MO6-8	Hazardous Material Storage	X	X	X	X	X	Utilities Manager, Crew Leader & Crew
MO6-9	Used Oil Recycling	X	X	X	X	X	Utilities Manager, Crew Leader & Crew
MO6-10	Vehicle Washing	X	X	X	X	X	Utilities Manager, Crew Leader & Crew
MO6-11	Employee Training	X	X	X	X	X	Utilities Manager, Utilities Coordinator, & Staff