

City of Solvang

Storm Water Management Program

City of Solvang
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ACRONYMS

Basin Plan	Central Coast Basin Water Quality Control
BIIP	Business and Industry Inspection Program
BMP	Best Management Practice
CAO	City Attorney's Office Covenants
CASQA	California Storm Water Quality Association
CC&R	Conditions and Restrictions Central Coast
CCR	California Code of Regulations
CCWQP	Central Coast Water Quality Preservation, Inc
CCRWQCB	Central Coast Regional Water Quality Control Board
CDD	Community Development Department
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CTR	California Toxics
CWA	Clean Water Act
DPR	Department of Pesticide Regulation
EHS	County Environmental Health Services Division
EIR	Environmental Impact Report
FCD	Flood Control District
FEMA	Federal Emergency Management Agency
GGCP	Green Gardener Certification Program
GH	Good Housekeeping
GIS	Geographic Information System
HMP	Hydromodification Management Plan
IDDE	Illicit Discharge Detection and Elimination
IPM	Integrated Pest Management
LUDP	Land Use Development Policy
MCM	Minimum Control Measure
MEP	Maximum Extent Practicable
MRP	Monitoring and Reporting Plan
MS4	Municipal Separate Storm Sewer System
ND	Negative Declaration
NOI	Notice of Intent
NOV	Notice of Violation
NPDES	National Pollutant Discharge Elimination System
O&M	Operations and Maintenance
OWOW	Our Water, Our World
PAH	Polycyclic Aromatic Hydrocarbon
PCA	Pest Control Advisors
PCW	Project Clean Water
PDF	Portable Document Format
PEO	Public Education and Outreach
POTW	Publicly Owned Treatment Works
PW	County Public Works Department
RFQ	Request for Qualifications
RWQCB	Regional Water Quality Control Board
SBCAMM	Santa Barbara County Association of Storm Water Managers
SCWRC	South Coast Watershed Resource Center
SOPs	Standard Operating Procedures
SUSMP	Standard Urban Storm Water Mitigation Plans
SWMP	Storm Water Management Plan
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
USEPA	United States Environmental Protection Agency

BMP Identification List**PUBLIC EDUCATION AND OUTREACH (PE)**

- PE.1 Brochures
- PE.2 Webpage
- PE.3 Event participation
- PE.4 Educational programs for children
- PE.5 Stormdrain marking
- PE.6 Stormwater hotline
- PE.7 Direct Mail/Media Campaign
- PE.8 Business Outreach
- PE.9 Public Survey
- PE.10 Community Based Social Marketing

PUBLIC PARTICIPATION AND INVOLVEMENT (PI)

- PI.1 Hold regular public meetings
- PI.2 Establish interagency/stakeholder's communication
- PI.3 Community cleanup
- PI.4 Hazardous Waste Facility
- PI.5 Water Quality Hotline
- PI.6 Interested Parties List

ILLCIT DISCHARGE DETECTION AND ELIMINATION (ID)

- ID.1 Storm Drain System Mapping
- ID.2 Stormwater Ordinance
- ID.3 Education and Outreach
- ID.4 Municipal Staff Training
- ID.5 ID and Elimination of Illicit Discharge Sources
- ID.6 Wastewater Programs
- ID.7 Mutt Mitt Program

CONSTRUCTION SITE RUNOFF CONTROL (CS)

- CS.1 Construction Site Enforcement and Inspections
- CS.2 Development of Construction Site Inspection and Enforcement Procedures
- CS.3 Review of Grading/Erosion Control/Construction Site Plans
- CS.4 Discretionary Projects –Conditions of Approval
- CS.5 Staff Training
- CS.6 Construction Workshops
- CS.7 Construction Site Stormwater Control Ordinance
- CS.8 Procedures for Receipt and Consideration of Information from the Public

POST CONSTRUCTION RINOFF CONTROL (PC)

- PC.1 Review Regulations
- PC.2 Staff Training
- PC.3 Plan Review
- PC.4 Inspection of Post-Construction Stormwater BMPs
- PC.5 Long-term Maintenance of Post-Construction Stormwater BMPs
- PC.6 Master Drainage Plan
- PC.7 Long-term Watershed Protection and Plan
- PC.8 Use of Low Impact Development
- PC.9 Adoption of Hydromodification Criteria
- PC.10 Education and Outreach

POLLUTION PREVENTION (PP)

- PP.1 Development of Citywide BMP's
- PP.2 Purchasing and Contracts
- PP.3 Training by City Departments

GOOD HOUSEKEEPING (GH)

- GH.1 Street Sweeping
- GH.2 Storm Drain Cleaning
- GH.3 Trash, Green Waste and Recycling

INTRODUCTION

The City of Solvang (the City) must comply with federal and state regulations related to environmental protection. One of the primary environmental laws impacting the City is the Clean Water Act (CWA) and associated implementing regulations. The purpose of the CWA is to protect and restore the physical, chemical, and biological integrity of our nation's waterways by controlling and limiting discharges of pollutants to these waterways.

In California, the State Water Resources Control Board (SWRCB) has determined that urban runoff is a leading cause of pollution throughout the state and that it contributes pollutants of concern such as sediments, non-sediment solids, nutrients, pathogens, oxygen-demanding substances, petroleum hydrocarbons, heavy metals, floatables, polycyclic aromatic hydrocarbons (PAHs), trash, and pesticides to waterways. In addition, the impervious nature (i.e. pavement and hardscape) of most urban communities has resulted in storm water discharges that have greater volumes, velocity, and pollutant loads than pre-development runoff.

The impacts of these changes include damaging effects on both human health and aquatic ecosystems. However, when water quality impacts are considered during the planning stages of a project, new development, or many redevelopment projects, a municipality can more efficiently incorporate measures to protect water quality.

The SWRCB identified the City of Solvang as a small municipal separate storm sewer system (MS4) requiring coverage under the National Pollutant Discharge Elimination System (NPDES) *General Permit for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems (MS4s)*, Water Quality Order No. 2003-0005-DWQ (General Permit). A requirement of the General Permit is development of a Storm Water Management Program designed to reduce the discharge of pollutants to the maximum extent practicable and to protect water quality. The General Permit also requires the development and implementation of Best Management Practices (BMPs) to address six Minimum Control Measures (MCMs), which include (1) Public Education and Outreach on Storm Water Impacts; (2) Public Involvement and Participation; (3) Illicit Discharge Detection and Elimination; (4) Construction Site Storm Water Runoff Control; (5) Post-Construction Storm Water Management in New Development and Redevelopment; and (6) Pollution Prevention/Good Housekeeping for Municipal Operations.

I.1 PURPOSE

This Storm Water Management Plan (SWMP) has been prepared by the City of Solvang pursuant to the General Permit and describes the City's program necessary to comply with the General Permit. More importantly, this SWMP will serve as a framework for identifying, assigning, and implementing control measures and BMPs intended to reduce the discharge of pollutants from the MS4 and protect downstream water quality. In addition to these primary objectives, this SWMP will

- Serve as a planning and guidance document to be used by the City's regulatory body, all City departments, contractors, and the general public;
- Be dynamic and adaptively managed to address changes in General Permit requirements, organizational structure, responsibilities, and goals;
- Define techniques and measurable goals for measuring BMP effectiveness; and
- Define a five-year schedule for Storm Water Management Program implementation to comply with the requirements of the General Permit.

I.2 STORM WATER MANAGEMENT PLAN ORGANIZATION

Section I introduces the background and requirements associated with the General Permit and summarizes the purpose of this SWMP; provides an overview of the City, including current land use, city facilities, the watershed, waterbodies, and water quality challenges. Section 1.0 - 7.0 describes the SWMP implementation; and identifies and describes the BMPs and associated measurable goals that will fulfill the requirements of the six MCMs outlined in the General Permit. Section 8.0 outlines references used.

I.3 REGULATORY BACKGROUND

In 1972 the Federal Water Pollution Control Act, known as the Clean Water Act, was enacted. The CWA established the baseline goal of attaining fishable, swimmable waters throughout the United States. In 1987, the CWA was amended to add Section 402, which established a framework for regulating discharges from MS4s as a special category of point source discharges under the NPDES Program. In 1990, the United States Environmental Protection Agency (U.S. EPA) promulgated regulations for permitting MS4s serving a population of 100,000 or more. These regulations, known as the Phase I regulations, require operators of medium and large MS4s to obtain storm water permits. The U.S. EPA adopted the Phase II Final Rule in December 1999. The Phase II regulations address storm water discharges from MS4s with a population of less than 100,000 (Small MS4s).

The SWRCB administers both the Phase I and Phase II programs in California, as established by the Porter-Cologne Water Quality Control Act of 1962 and regulated under Title 23 of the California Code of Regulations (CCR). The Phase II Final Rule promulgated by the U.S. EPA prompted the SWRCB to adopt the General Permit for Storm Water Discharges from Small Municipal Separate Storm Sewer Systems, Water Quality Order No. 2003-0005-DWQ on April 30, 2003.

The Central Coast Regional Water Quality Control Board (RWQCB, or Water Board) is one of nine Wracks in California and has jurisdiction over a 300-mile-long by 40-mile-wide section of California's Central Coast. Its geographic area includes the City of Solvang and, therefore, the Water Board is responsible for the coordination and control of water quality locally, including compliance oversight associated with the General Permit.

I.4 GENERAL PERMIT APPLICABILITY TO THE CITY OF SOLVANG

The General Permit adopted on April 30, 2003, requires permits for storm water discharges from Small MS4s and regulates storm water discharges from Small MS4s. The SWRCB defines an MS4 as:

...a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):(i) designed or used for collecting or conveying storm water; (ii) which is not a combined sewer; and (iii) which is not part of a Publicly Owned Treatment Works (POTW)(40 CFR §122.26[b][8]).

The General Permit also defines a "Small MS4" as

...an MS4 that is not permitted under the municipal Phase I regulations, and which is "owned or operated by the United States, a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity...." (40 CFR §122.26[b] [16]). Small MS4s include systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares, but do not include separate storm sewers in 2 very discrete areas, such as individual buildings.

Small MS4s regulated under the General Permit are designated in one of the following ways:

- 1) Automatically designated by U.S. EPA pursuant to Title 40, Code of Federal Regulations (40 CFR, Section 122.32[a]) because it is located within an urbanized area as defined by the Bureau of the Census, or
- 2) Individually designated by the SWRCB or RWQCB after consideration of the following factors:
 - (a) high population density (1,000 residents per square mile),
 - (b) high growth or growth potential (growth greater than 25% between 1990 and 2000 or anticipated growth greater than 25% over a 10-year period),
 - (c) a significant contributor of pollutants to an interconnected permitted MS4,
 - (d) a discharger to sensitive water bodies, and/or
 - (e) a significant contributor of pollutants to waters of the United States.

These factors were considered by the SWRCB and/or RWQCB when evaluating whether a Small MS4 should be required to obtain coverage under the General Permit and then develop and implement a SWMP. An MS4 and the population that it serves need not meet all of the factors to be designated. The City of Solvang is a Small MS4 subject to the General Permit because it meets the criteria specified in items 2 a and d of the above referenced criteria considered by the SWRCB and RWQCB and was designated by the U.S. EPA as a regulated Small MS4 in the Phase II Final Rule.

I.5 WATER QUALITY PROTECTION CONDITIONS

In a letter dated February 15, 2008, and titled *Notification to Traditional, Small MS4s on Process for Enrolling Under the State's General Permit for Storm Water Discharges* (Central Coast Water Board 2008a), the Central Coast Water Board defined a newly established process and schedule for SWMP approval and described expectations for SWMP content necessary for General Permit compliance. In particular the City's SWMP is required to include an array of BMPs to achieve four additional water quality protection conditions not specifically defined within the General Permit. These conditions and their associated implementation requirements are as follows:

1. Maximize Infiltration of Clean Storm Water, and Minimize Runoff Volume and Rate

This condition requires the City to present a schedule for developing and adopting control standards for hydromodification. The schedule for adopting hydromodification control standards is required to include:

- Numeric criteria for controlling storm water runoff volume and rates from new development and redevelopment;
- Numeric criteria for stream stability required to protect downstream beneficial uses and prevent physical changes to downstream channels that would adversely affect the physical structure, biologic condition, and water quality of streams;
- Specific applicability criteria, land disturbance acreage thresholds, and exemptions;
- Performance criteria for control BMPs and an inspection program to ensure proper long-term functioning; and
- Education requirements for appropriate municipal staff on hydromodification and low- impact development.

2. Protect Riparian Areas, Wetlands, and Their Buffer Zones

This condition requires the City to present a strategy to adopt and implement BMPs and/or other control measures to establish and maintain a minimum 30-foot buffer zone for identified riparian areas and wetlands.

3. Minimize Pollutant Loading

This condition requires the City develop a strategy to reduce pollutant loading through the use of BMPs and/or other control measures including volume- and/or flow-based treatment criteria.

4. Provide Long-Term Watershed Protection

This condition requires the City to present a strategy to develop a watershed-based Hydromodification Management Plan (HMP). The Central Coast Water Board requires the HMP incorporate Low Impact Development (LID) strategies with the goal of post construction storm water management that achieves an effective impervious area of no more than 3 to 10 percent of watershed area within the City's jurisdiction, depending on local conditions.

I.6 ACHIEVING THE WATER QUALITY CONDITIONS

The City acknowledges the importance of protecting water quality, beneficial uses, and the biological and physical integrity of its watersheds and is determined to attain compliance with the General Permit and the aforementioned Water Quality Conditions. Therefore, specific BMPs have been selected and defined in this SWMP to realize these goals. The City—with the support of the public, staff, and Central Coast Water Board—is confident it can reduce the discharge of pollutants to the Maximum Extent Practicable (MEP), establish and effectively manage hydromodification controls, and address specific water quality challenges it currently faces.

The selected BMP's are defined and identified in the BMP identification list on page five of this document and the potential pollutants activities/sources and related POC group and BMP are identified in the table on the following page.

Table I-1

Land Use - Generating sites	Potential Pollutant Activities /Source	POC Group	BMP Cross Reference
Residential Apartments Multi-Family Single family	Driveway and sidewalk cleaning Dumping/spills Vehicle and equipment upkeep & washing Landscape upkeep & irrigation Septic system upkeep Swimming pool & spa discharges Illicit connections Sump dewatering Painting	Sediment Nutrients (P, N, N03, N02) Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris) Toxics (organics, hazardous waste, etc.)	PE.1, PE.2, PE.3,PE.4, PE.5,PE.6,PE.7, PE.9,PE.10 PI.1, PI.3, PI.4,PI.5,PI.6 ID.1, ID.2, ID.3,ID.4,ID.5, ID.6, ID.7 GH-1, GH2, GH-3, PP.1
Commercial Golf courses Auto sales, dismantling, maintenance and oil change shops Gas stations Commercial laundry & dry cleaning Nurseries/garden centers Restaurants Agriculture	Building upkeep (power washing) Dumping and spills Landscaping & grounds upkeep Outdoor fluid storage Parking lot upkeep (power washing) Vehicle fueling, upkeep, repair, & washing Washdown of greasy equipment & grease traps Illicit connections Sump dewatering Carpeting	Sediment Nutrients (P, N, N03, N02) Metals Detergents Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris) Toxics (organics, hazardous waste, etc.)	PE.1, PE.2, PE.3, PE.4, PE.5, PE.6, PE.7, PE.8, PE.9, PE.10 PI.1, PI.3, PI.4,PI.5 ID.1, ID.2, ID.3,ID.4, ID.5,ID.6 GH-1,GH.2,GH.3 PP.1
Industrial Auto recyclers Distribution centers Food processing Garbage truck washouts Metal plating operations Petroleum storage refining	All commercial activities Industrial process or rinse water Loading and un-loading area washdowns Parking lot upkeep (power washing) Outdoor material storage (fluids) Illicit connections Sump Dewatering	Nutrients (P, N, N03, N02) Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Metals Pesticides Gross pollutants (litter, trash, debris) Toxics (organics, hazardous waste, etc.)	PE.1,PE.2, PE.4,PE.5, PE.6, PE7,PE.8, PI.1, PI.3, PI.4,PI.5 ID.1, ID.2,ID.3 ID.4, ID.5,ID.6 GH.1, GH.2,GH.3, PP.1
Institutional Cemeteries Churches Corporate campuses Hospitals Schools & universities	Building upkeep (power washing) Dumping and spills Swimming pool and spa discharges Landscaping and grounds irrigation Parking lot upkeep (power washing) Vehicle washing Illicit connections Sump dewatering	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Pesticides Gross Pollutants (trash, debris)	PE.1,PE.2, PE.3, PE.5, PE.6,PE.7,PE.8,PE.9, PI.1, PI.3, PI.4,PI.5 ID.1, ID.2,ID.3, ID.4, ID.5,ID.6 GH.1, GH.2, GH.3, PP.1
Municipal Airports Landfills Maintenance depots Municipal fleet storage Public works yards Streets and highways	Building upkeep (power washing) Dumping and spills Landscaping and grounds irrigation Outdoor fluid storage Parking lot upkeep (power washing) Road maintenance Spill prevention and response Vehicle fueling, upkeep, repair washing Illicit connections	Sediment Nutrients CP, N, N03, N02) Hydrocarbons (O&G, lubricants) Pesticides Metals Gross Pollutants (trash, debris) Detergents Toxics (organics, hazardous waste, etc.)	PE.1,PE.2, PE.4, PE.5, PE.6, PE.7,PE.9, PI.1, PI.3, PI.4,PI.5 ID.1, ID.2,ID.3, ID.4, ID.5, ID.6 GH.1, GH.2, GH.3, PP.1
Other/All Mobile services Parks Multi-use detention basins and detention /recharge basins Construction sites	Vehicle accidents Mobile car wash and auto detailers, painters, power washers, pet washers, and food vendors New development and redevelopment Homeless encampments Operations and maintenance	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Metals Gross Pollutants (trash, debris) Detergents Toxics (organics, hazardous waste, etc.)	PE.1,PE.2, PE.4, PE.5,PE.6, PE.7, PI.1, PI.3, PI.4,PI.5 ID.1, ID.2,ID.3, ID.4, ID.5,ID.6 CS.1, CS.2, CS.3, CS.4,Cs.6, CS.7, CS.8 PC.1, PC.2, PC.3, PC.4,PC.5,PC.6,PC.7,PC.8,PC.9,PC.10 GH.1, GH.2, GH.3, PP.1

I.7 Measuring Program Effectiveness

In accordance with the requirements of the General Permit, the City of Solvang intends to conduct periodic assessments and reporting on the effectiveness of its Municipal Storm Water Program. Due to the fact that measurable improvement in water quality will take time to demonstrate, the City proposes an iterative approach of short-term and long-term effectiveness assessments to ensure progress achieving broader program goals is continuous. The City will utilize the guidance within the Municipal Stormwater Program Effectiveness Assessment Guide (California Stormwater Quality Association [CASQA], 2007) as a framework for conducting future program effectiveness assessments. The City is confident that using the approach and strategy defined within the CASQA guide will assist the City to achieve its goals efficiently and cost-effectively.

I.7.1 Short-Term Effectiveness Assessment

The City will evaluate measurable goals to determine their effectiveness at complying with General Permit conditions, protecting water quality, and reducing pollutants in stormwater to the MEP and will modify its measurable goals and activities to increase the effectiveness of its stormwater program. During the first year of program implementation, the City of Solvang will develop a defined strategy for assessing program and BMP effectiveness. This will include:

- Identification of quantifiable measures, appropriate to each BMP, that assess effectiveness at achieving regulatory compliance, meeting measurable goals, changing awareness, changing behavior, and reducing pollutant loads. These measures will be used during annual effectiveness assessments.
- Identification of quantifiable measures that collectively assess program effectiveness in terms of runoff and receiving water quality. These measures will be used during long-term effectiveness assessments at appropriately determined intervals.

The City will initially establish the purpose or focus of the assessment and conduct a thorough evaluation of measurable goals specified within this SWMP for their ability to adequately support the assessment of six “Outcome Levels” defined within the CASQA guide. Outcome Levels are intended to categorize and describe the desired results or goals of programs and minimum control measures. They include:

- Level 1: Documenting activities;
- Level 2: Raising awareness;
- Level 3: Changing behavior;
- Level 4: Reducing loads from sources;
- Level 5: Improving runoff quality; and
- Level 6: Protecting receiving water quality.

During this evaluation, the City will identify specific water quality and implementation “Assessment Methods” it will use to assess program and BMP effectiveness. CASQA identifies the following Assessment Methods for potential use: confirmation, tabulation, surveys, inspections, quantification, and monitoring. For the purpose of supporting long-term effectiveness assessments, reference or baseline conditions will also be established. Where necessary, additional measurable goals will be incorporated into the SWMP and their inclusion noted within the City’s Annual Report. The City will make an effort to include more quantifiable measures of BMP and program effectiveness. During the second and third year of program implementation, the City will continue to implement the BMPs identified within this SWMP.

The City will also continue to assess BMP and program effectiveness using the effectiveness assessment methods defined during the first year of program implementation. The City will have completed an

assessment of Community Based Social Marketing (CBSM) strategies and how they could make the City's educational programs more effective and will have incorporated CBSM strategies into the educational program, where appropriate by the end of third year of the program.

During the second and third year, greater attention will be given to integrating the results of implementation efforts and water quality monitoring (City, State, and non-profit) efforts for the purpose of identifying opportunities for program modification. Program modification will only be necessary if the results of the integrated assessment determine that chosen BMPs, which constitute the City's program, are ineffective at achieving their intended outcome. Proposed program modifications will always be noted within the City's Annual Reports.

I.7.2 Long-Term Effectiveness Assessment

During the fourth and fifth year of program implementation, the City will continue to implement the effectiveness strategy established during the first year. The City will continue to conduct an annual integrated assessment of program implementation efforts as described within the CASQA guide. More specifically, the City intends to determine relationships between program implementation assessments and water quality assessments with the ultimate goal of establishing whether or not program implementation is protecting or improving water quality.

The City intends to consider the various factors which could present challenges for continued assessment including participation rate, spatial and temporal scales, implementation of multiple activities, rainfall and runoff characteristics, and costs. Given the City's budgetary constraints and commitment to improving protecting and improving water quality, long-term effectiveness will be a critical step for the City to achieve its goals efficiently and cost-effectively.

I.8 CITY DEPARTMENTS AND COORDINATION

Implementation of the City of Solvang SWMP involves several City departments and requires total City involvement and support. Dedicated efforts stem from the staff of the Public Works, Engineering, Planning and Building, Recreation and Parks and the offices of the City Manager and City Attorney. The Program will be managed by the Public Works Department with significant support from the Planning and Engineering Departments. The Public Works Director will be responsible for implementing or coordinating each minimum control measure and the program as a whole. Contact information for those directly involved in the implementation and planning is provided in Table I-2 below;

Table I-2 Solvang Staff Contacts

Department	Name	Title	Phone
City Manager	Brad Vidro	City Manager	805-688-5575
City Clerk	Mary Ellen Rio	City Clerk	805-688-5575
Planning/ Building	Shelly Stahl	Planning Director	805-688-4414
City Attorney Office	Roy Hanley	City Attorney	805-466-4705
Public Works	Tully Clifford	Public Works Director	805-686-5575
Engineering	Frank Saunders	Engineering Technician	805-688-5575
Recreations and Parks	Fred Lageman	Parks and Recreation Director	805-688-7529

I.9 TIMELINE

The City of Solvang's original SWMP was submitted to the Central Coast Water Board in accordance with the timeline established by the Phase II Final Rule. The Phase II Final Rule required the City to submit a Notice of Intent (NOI) and SWMP to the Central Coast Water Board on or before September, 2003.

The initial submittal received comments and review from the Regional Water Board and was re-submitted in November of 2005. In February of 2006 letters recommending further revisions were received by the Water Board from Santa Barbara Channelkeeper and Heal the Ocean. These organizations requested the addition of BMPs with regard to public involvement and education, enforcement actions against violators, and stronger guidelines for construction activities. This 2010 revision of the SWMP addresses those concerns.

The SWMP will be implemented over the term of the permit coverage as described in Sections 1.0 through 7.0. Each MCM and its associated BMPs have their own implementation schedule based on program priorities.

I.10 LEGAL AUTHORITY AND ENFORCEMENT

The City of Solvang has adopted numerous ordinances over the years to create and maintain a healthy, safe, and pleasant environment in which to live, work, and play. In order to maintain and enhance the quality of life in Solvang, the Code Compliance Division of the City Attorney's office investigates and resolves municipal code violations on private property, including:

- Building or remodeling without permits;
- Garage conversions;
- Substandard housing such as lack of heat, hot water, or sanitation;
- Inoperative vehicles on private property such as vehicles supported on blocks or jacks; burned or abandoned; or vehicles stored with flat tires;
- Vehicles parked on lawns;
- Zoning complaints such as a business in a residential district;
- Noise complaints, including noise from dogs and roosters;
- Blighted property such as abandoned or open structures;
- Weeds, junk, and debris on private property; and
- Signs unlawfully displayed.

Sources of the City's legal authority to enforce this SWMP include the General Plan, the Municipal Code, the building and development plan review and grading permit processes, Public Works Department's Standard Specifications, and solid waste regulations. The City has adequate legal authority to enforce the current ordinance already in place to protect water quality, but is committed to write and adopt additional ordinances to the Municipal Code to specifically implement the SWMP (see Sections 3-6 for applicable BMPs).

This includes a commitment by the City to:

- Develop or adopt an existing stormwater ordinance and once adopted implement same;
- Enforce current stormwater codes and/or ordinances at 100% of construction sites, until such time as the current codes and/or ordinances are replaced by revised codes and/or ordinances;
- Evaluate the effectiveness of current stormwater codes and/or ordinances and whether they comply with all General Permit requirements;
- Modify its current stormwater codes and/or ordinances, if necessary, to comply with all General Permit requirements; and
- Implement and enforce the new ordinance and where not already identified commit to develop a schedule for when the City will develop and/or adopt, and implement the new codes and/or ordinances.

The City will maintain its legal authority to implement and enforce the SWMP to reduce the discharge of pollutants from the MS4 to the MEP and to protect water quality.

The City's Engineering Department is responsible for inspecting all new development and construction sites and facilitating any enforcement actions that may result.

The City's Department of Public Works is responsible for inspecting existing commercial and industrial facilities. The City is committed to enforcing the SWMP and the Municipal Code up to and including prosecution, administrative remedies, penalties, costs or other legal actions.

The City will have on staff a certified Stormwater Compliance Officer or registered PE to support implementation of the SWMP and enforcement of the Municipal Code as it relates to storm water quality, illicit discharges and connections, construction storm water controls, and post-construction storm water controls and maintenance.

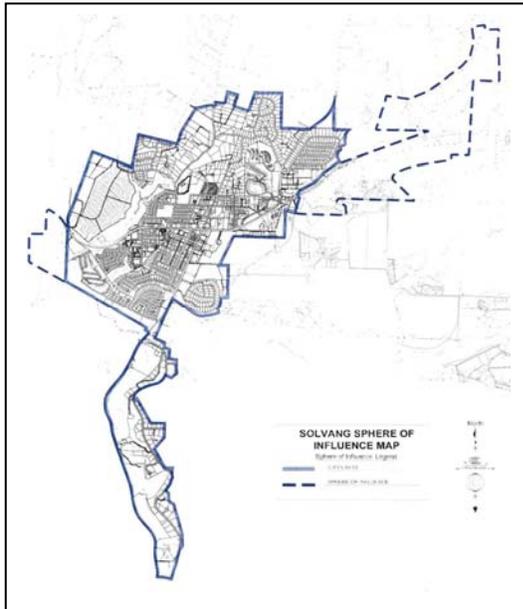
I.11 ENFORCEMENT PROCESS

City Departments coordinate internally to expedite investigation into violations observed or reported via a direct call or written complaint to any City Department or the Santa Barbara County hotline. Once received by the Public Works Director and based on the merits of each individual case, an appropriate municipal code section is applied to the violation (if any). Depending on the individual factors associated with a particular case as outlined in Municipal Code. If compliance is not achieved, actions may include the issuance of an administrative citation, compliance order issued by the City Council, injunctive relief, criminal prosecution or other legal pursuits.

The Planning Department has an established process for verifying resolution of a Municipal Code violation. Verification can be addressed by the Code Compliance Officer or by a representative from another Department. All phases of the enforcement process are tracked by the Planning Department.

City of SOLVANG Overview

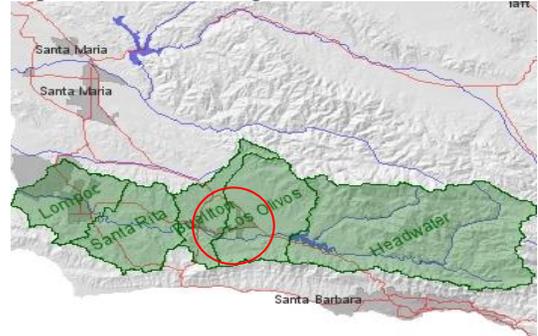
Solvang is located 6 miles east of US Highway 101 in Santa Barbara County. It was founded in 1911 by a group of Danish teachers and incorporated in 1985. The City has an estimated population of 5,450, an increase of approximately 13% over its recorded 1990 population of 4,741. The population is approximately 80.7% Caucasian 17.2 % Hispanic/Latino and 2.8% other races combined. The median age is 43 and median annual income is approximately \$57,703. Los Angeles is two hours south of Solvang on US 101, and San Francisco is about a five-hour drive north on US 101 or scenic Highway 1.



The City operates under a five-member City Council, five-member Planning Commission, five member Parks and Recreation Commission and City Manager form of government. The City adopted a general plan in 1988. The City's boundaries and sphere of influence are shown at left.

Solvang enjoys a Mediterranean coastal climate with mild, dry summers and cool, wet winters. Typical summer temperatures are in the 80-90s and winter temperatures hover in the 50-60s. Winter lows are generally in the 30s with an occasional frosty dip below freezing. Yearly precipitation averages about 12 inches between the months of November and March. Storms usually come from the northwest during the winter months. Offshore afternoon winds from the northwest occur throughout the year. "Santa Ana" winds also occur during the fall and winter. These are warm, dry northeasterly winds of 15-20 mph.

Solvang is part of the Buellton Uplands and Los Olivos Groundwater Basins of the Santa Ynez River Watershed. The Buellton Uplands Groundwater Basin encompasses about 29 square miles located about 18 miles east of the Pacific Ocean and directly north of the Santa Ynez River. The basin boundaries include the impermeable bedrock of the Purisima Hills to the north, the Santa Ynez River Fault to the south, a limited connection to the Santa Ynez Upland Groundwater Basin to the east and a topographic (drainage) divide with the Lompoc Basin to the west. The Santa Ynez River Riparian Basin sediments overlie portions of the Buellton Uplands in the south-east part of the basin.

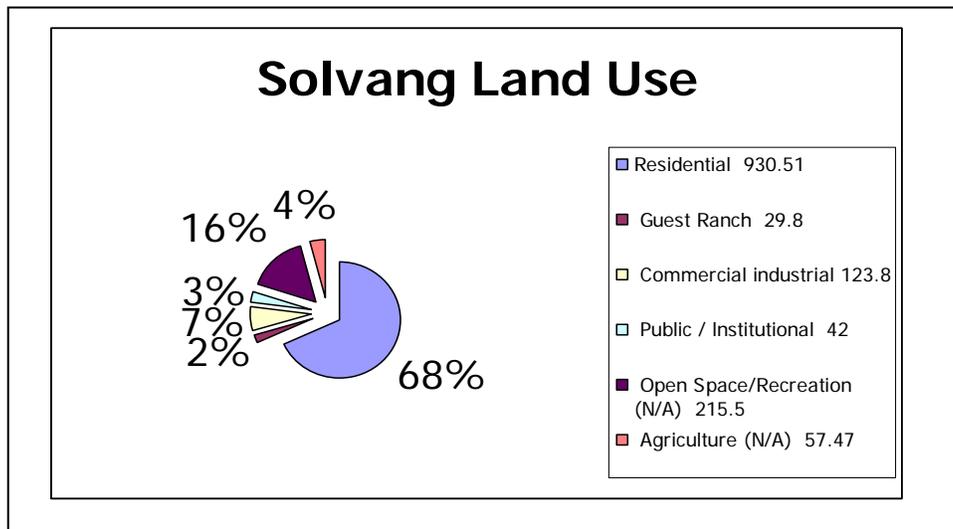


While not a part of the Santa Ynez River system, the Santa Ynez, Buellton and Lompoc Uplands provide extracted groundwater to meet demands in their respective areas within the watershed. Two groundwater systems are associated with the Santa Ynez River. These are divided at the Lompoc Narrows. The groundwater system east of the Narrows is considered as the subsurface flow of the Santa Ynez River. The system to the west is known as the Below Narrows Groundwater Basin and is defined as a percolating groundwater system.

The City's MS4 consists of curbs and gutters, a network of open and closed storm water drains and portions of Alisal, Adobe Canyon and Ballard Canyon creeks. Alamo Pintado Creek is identified by the Federal Emergency Management Agency (FEMA) as having a 100 year peak discharge value of between 4,600 and 7,400 cubic feet per second (cfs). In 1977 the SCS installed steel pipes at some sections to protect the banks. No FEMA data is available for Alisal, Adobe Canyon or Ballard Canyon creeks.

The larger storm water conveyance ditches, channels, and basins are primarily owned and maintained by Santa Barbara County Flood Control and Water Conservation District (FCD). The City’s MS4 essentially discharges to the FCD's MS4; City flow then co-mingles with County flow and agricultural tailwater. The entire flood control system was initially constructed with the intent to manage and convey flood waters many years before water quality issues were a concern. In recent years it has become recognized that this co-mingled surface flow is impacting both groundwater and the Santa Ynez River. The Santa Ynez River is under the jurisdiction of the County of Santa Barbara and is currently listed as “impaired” by the State of California for nutrients, salinity and sedimentation/siltation. The River itself and the origination points of those creeks passing through the City’s SOI are current areas designated as under the County’s jurisdiction.

The City currently has a total of 1,368.4 acres of land within its City boundaries. Of that land 68% is zoned residential which includes specific areas designated for medium (266.5 acres) and high density development (31.5 acres) and mobile home parks (103.3 acres), 15.8% zoned for open space, 6.8% zoned commercial industrial, 4.2% zoned agricultural, 3% zoned public and 2% containing an established guest ranch. There were approximately 2,076 dwelling units as of 2006. There are approximately 210 units pending development and 322 potential units to be developed for a total of 532 additional units. A total of 2,608 dwelling units are estimated at build-out. Each dwelling unit houses an average of 2.37 people according to the 2000 U.S. Census. The estimated population at build-out is 6,181 people.



The City’s most recent residential growth was the Skytt Mesa development on the south west edge of town. The project received final City approval in 2005. It currently has 42 of the proposed 169 homes completed as part of Phase I of the project. Construction of the drainage improvements for the project has been completed through Phase 3. Project stormwater design features include a 219,777 cubic foot basin located in Hans Christian Anderson Park that allows for retention and filtration of the site’s stormwater, aiding in the preservation of the banks of adjacent Adobe Canyon Creek. One of the oldest and most specialized sections of the City is the Alisal Guest ranch, located on the south eastern tip of the City’s boundary. The guest ranch, originally built in 1946, contains equestrian and ranch facilities and a golf course. The course was completed in 1992 and contains a lake to aid in onsite runoff retention. The city contains approximately 30 acres of the ranch’s 10,000 acre total area.

Figure I-1. City of Solvang

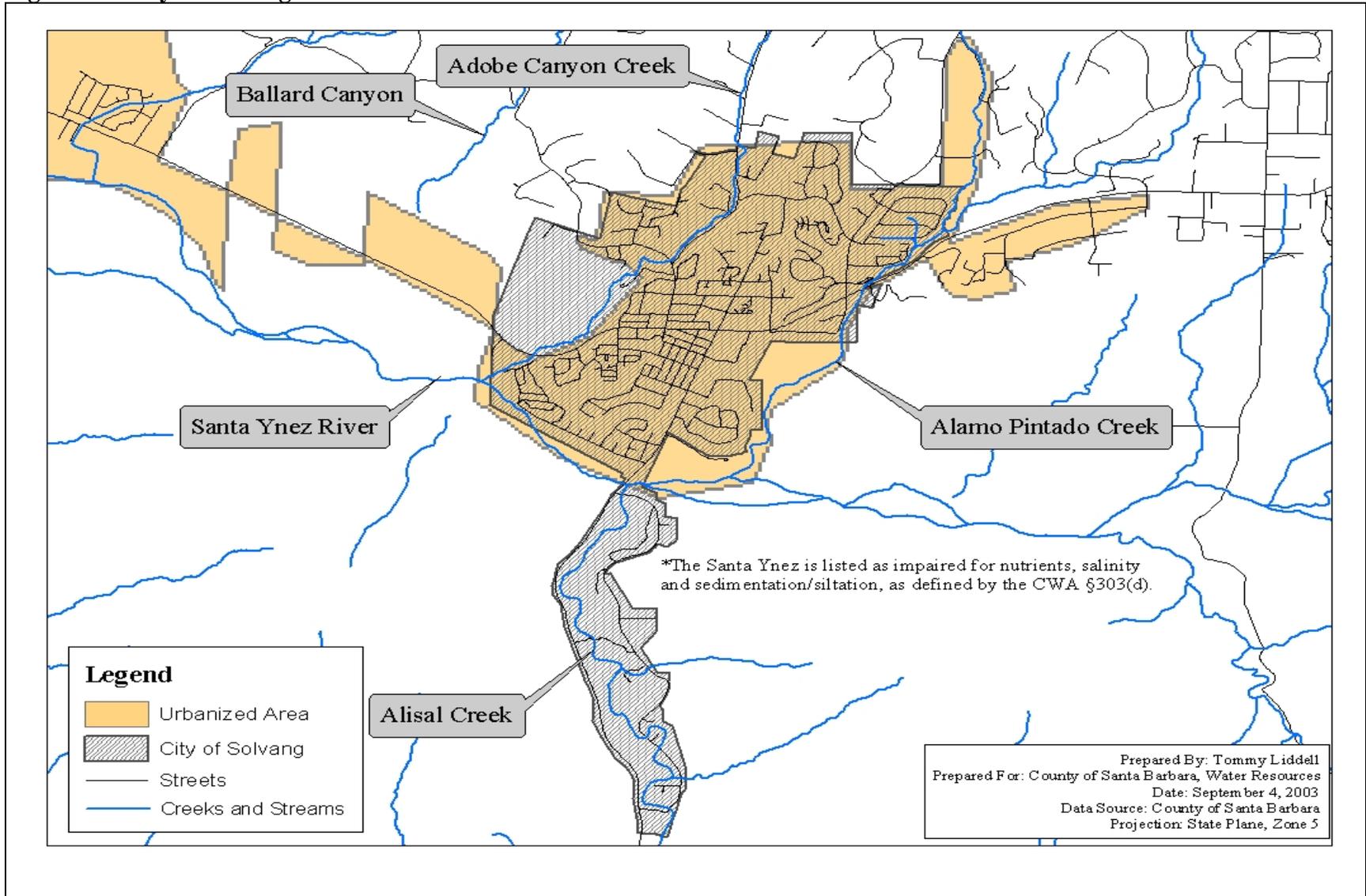
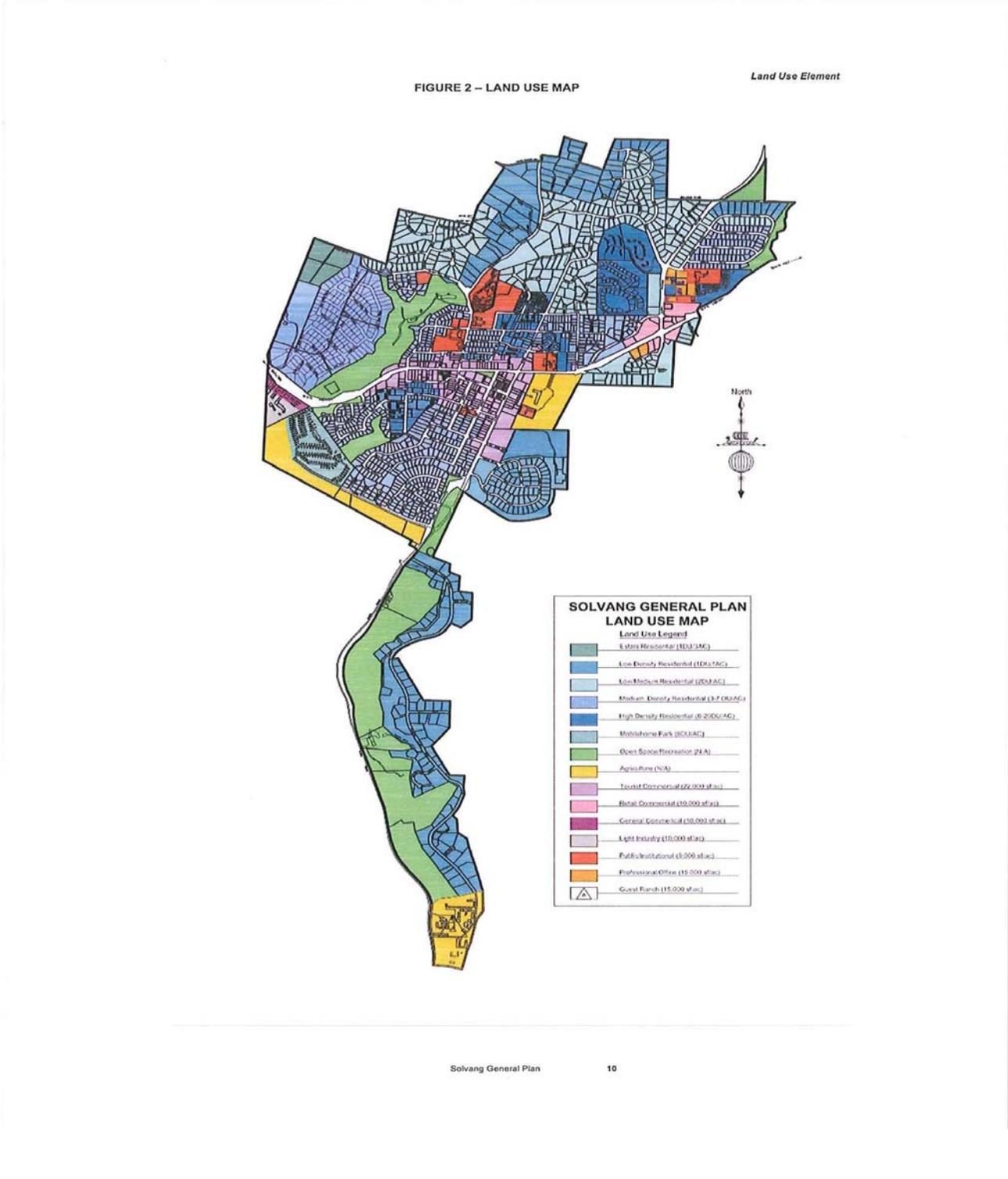


Figure I-2. City of Solvang Zoning areas



MINIMUM CONTROL MEASURES

The implementation and evaluation of the six minimum control measures, listed on page 6 and detailed below, comprise the heart of the City’s Storm Water Management Program. Within each MCM category, specific BMPs were selected based on a number of factors including input from community members and the results of physical observations of local creeks. Information collected by the City and other reports pertaining to this SWMP may be reviewed at the City offices (City of Solvang, 1644 Oak St., Solvang, California) or at the City website at www.cityofsolvang.com. The information collected by the County is summarized in annual reports and other studies posted on the County website at www.countyofsb.org/project_cleanwater.

1.0 PUBLIC EDUCATION AND OUTREACH

This minimum control measure is intended to ensure greater public support and compliance for the storm water management program. Specifically these efforts are to teach the public the importance of protecting storm water quality, both for the benefit of the environment and human health. The role of each community member, both at home and work, are a particular emphasis. The City has already begun and will continue to partner with other local municipalities, such as the County of Santa Barbara and the Cities of Lompoc, Santa Maria, Buellton, Goleta, Santa Barbara, and Carpinteria to develop educational materials and host civic events.

1.1 Minimum Requirements

USEPA guidelines establish the following “Best Management Practices” for Public Education and Outreach Minimum Control Measure (*Fact Sheet 2.3 – Public Education and Outreach Minimum Control Measure, 01/00*):

- Distribute educational materials on the impact of storm water discharges and steps that can be taken to reduce storm water pollution
- Brochures or fact sheets
- Alternative information sources such as web sites, bumper stickers, and refrigerator magnets
- A library of educational materials
- Volunteer citizen educators
- Event participation
- Educational programs for school children
- Storm drain stenciling
- Storm water hotlines

These and other activities will be utilized to inform people of the impacts of stormwater discharges on waterbodies; of the steps they can take to reduce pollutants in stormwater; and how they can become involved in restoration activities.

1.2 Best Management Practices

The City will implement the Best Management Practices and Measurable Goals described below. Effectiveness Measures and Measurable Goals are outlined in tables immediately following descriptions.

PE.1 – Brochures:

The City will partner with the County of Santa Barbara and other local municipalities to have available and distribute a series of informational brochures on storm water quality targeting gardeners, dog and horse owners, creekside residents, and homeowners. Additional informational brochures include a general storm water brochure called “Storm Drains Lead Straight to the Ocean”, and a brochure on proper disposal of and alternatives to hazardous household products. These materials are all produced in both English and Spanish.

Measurable Goals:

a. Brochures outlined in Table 1-1 will be available in English and Spanish, online (through the link to the County’s website), at City offices, distributed at the annual clean up day event, other city events (e.g., the annual BBQ), at City Council meetings, by mail on request, and through enforcement activities. A portable “stormwater exhibit” has been developed utilizing the brochures and will be on display at events and meetings.

Years 1-5

b. An LID informational brochure will be distributed at the City zoning counter with each new zoning application, and by request online through the Planning Department website. All information will be available with a target of distributing to 100% of zoning applicants.

Years 2-5

Table 1-1

Brochure Title	POC Addressed
Creek side Concerns	All POC Groups listed under residential in Table I-1
Creek Care Guide	All POC Groups listed under residential in Table I-1
A Dog Owner’s Duty	Pathogens
Gardener’s Guide to Clean Water	All POC Groups listed under residential in Table I-1
Helpful Hints for Horse Owners	Pathogens, Gross pollutants, toxics, pesticides
Sustainable Landscaping	All POC Groups listed under residential in Table I-1
How to Be Water Wise in your Garden	All POC Groups listed under residential in Table I-1
Storm Drains Lead Straight to the Ocean	All POC Groups listed under residential in Table I-1
Recognizing and Reporting Stormwater Pollution	All POC Groups listed under residential in Table I-1

PE.2 Webpage:

The City has added a page to their existing web site to explain storm water issues and include a copy of the SWMP. The City has linked to the County of Santa Barbara’s web site, which features general information, copies of reports, studies, and educational materials, and a calendar of events. The City has and will continue to distribute materials that list the web site address and a hotline phone number (described below).

Measurable Goals:

a. The City will maintain and update its current stormwater page quarterly to feature current SWMP documents and general information. It will continue to provide a link to the County of Santa Barbara’s web site. The County site features copies of brochures, reports, studies, and educational materials, and a calendar of events.

Years 1-5

b. Publish webpage information on all educational documents.

Years 1-5

c. The annual stormwater survey (PE.7, PE.10) survey will contain one question pertaining to the stormwater webpage.

Years 3-5

PE.3 - Event Participation: Stormwater brochures and other available information will be distributed at one annual clean up event (PI.3) and two (2) other events each year. The additional events will be selected on the basis of which will provide the most exposure, and may include—but not be limited to—the annual BBQ, parks and recreation events, and city meetings.

Measurable Goals:

a. A booth or stormwater exhibit will be staffed by the City - for the purpose of educating people and distributing information about stormwater issues - at one of the three annual clean up events attended by staff.

Years 1-5

b. A short quiz or contest will be held to identify areas of concern.

Years 2-5

PE.4 Educational programs for school children:

In 2004 a design contest was held to develop a design for the city storm water logo, five entries were received and a winner was selected (see Appendix B). In year 1 the City proposes to identify appropriate materials to be distributed to all schools within the City boundaries. These may include but are not limited to a coloring/activity book for grades K-6, age appropriate activity materials for grades 6-12. To be distributed by the end of year 2.

Measurable Goals:

a. The City will distribute, review and revise the materials distributed as required throughout the life of the permit with a goal of providing materials to school staff to facilitate the education of 50% of school children (K-8) every two years. City staff will coordinate with school staff to ensure that 50% of (K-8) school children receive stormwater education as specified.

Years 1-5

b. Staff will also conduct semi-annual meetings with teachers and parks and recreation staff to evaluate and adjust any programs offered.

Years 2-5

c. The City will hold an after-program contest to determine if the information was assimilated

Years 3-5

PE.5 Storm drain marking:

The City has completed marking all existing storm drain drop inlets and will mark all newly constructed drain drop inlets with markers that say “No Dumping - Drains to the River”. (see Appendix B)

Measurable Goals:

a. The City has already completed marking 100% percent of the stormdrains within its jurisdiction. Staff will continue to monitor and repair the markers by checking them annually and replacing as necessary.

Years 1-5

b. All new storm drains will be required to be marked as installed. Such marking will be required in conditions of approval for any development or redevelopment project.

Years 2-5

c. In order to determine if the general public identifies with the stormdrain markers, one question in the online/direct mail survey will address the purpose of the markers.

Years 2-5

PE.6 Storm Water Hotline:

The regional Water Quality Hotline is accessible at 1-877-OUR-OCEAN. The City will be included so that callers from Solvang can report water quality issues or get information such as where to dispose of hazardous waste. In addition, residents may call the City directly to report a water quality issue.

Measurable Goals:

a. The City will promote the use of the hotline through all printed materials and the web site.

Years 1-5

b. The City will log the number of calls received and respond to 100% of calls received by sending appropriate personnel.

Years 1-5

c. Staff will include a question about the hotline in the online and direct mail surveys (PE.7/ PE.9). Answers will be tabulated and staff will identify areas that require additional focus.

Years 3-5

PE.7 Media Campaigns:

Print ads or articles will appear in local newspapers as deemed appropriate and necessary.

a. The City will place stormwater related articles in three (3) issues of a local paper.

Years 1-5.

b. One question about the, print articles, will be included in the online and/or direct mail surveys (PE.10).

Years 3-5

PE.8 Business Outreach:

Business Outreach: The City does not currently require business licenses or permits and therefore will distribute stormwater information sheets brochures relevant to the type of businesses to all applicants seeking zoning clearance and during any site visit. Brochures and posters, in English and Spanish, which target restaurants, automotive services, construction contractors, and mobile cleaners will also be on display in City offices and distributed during site visits by City staff and EHS restaurant inspectors.

These brochures address topics including but not limited to sidewalk/exterior washing, vehicle storage and maintenance, maintenance, of parking areas, spill prevention and response, garbage management, loading docks, landscaping. Those targeting restaurants will also address equipment washing/degreasing and disposal of grease and those targeting automobile service businesses will also address parts cleaning/degreasing, oil/fluid storage and disposal, leak prevention and clean-up, materials and vehicle storage, and painting. The City will also coordinate its ongoing outreach from the Solvang Wastewater Treatment Plant to offer a Stormwater component in the BMP training to restaurant managers.

Measurable Goals:

a. The City will distribute appropriate business related informational materials/brochures annually, as well zoning clearance materials to businesses.

Years 1-5.

b. Staff will ask business owners during any site visit or other interaction if they are familiar with the stormwater program; if they are aware of the requirements imposed for their type of business; and if they believe their business to be in compliance with those requirements. Staff will visit 75% of all new businesses and 20% of existing businesses annually, with a target of increasing awareness by 10% annually.

Years 2-5.

c. During any site visit Staff will inspect businesses for compliance with stormwater requirements, Staff will visit 75% of all new businesses and 20% of existing businesses annually.

Years 2-5

d. Staff will achieve compliance with stormwater requirements at all businesses inspected annually through the use of established enforcement procedures.

Years 2-5

PE.09 – Public Survey –The City will develop and administer an online quiz or survey to assess the effectiveness of the City’s public education and outreach activities. The City will use the results of the survey/quiz to identify areas for greater focus, and will modify its education and outreach activities as necessary to achieve the MEP standard.

Measurable Goals:

a. The City will develop an assessment strategy such as an online quiz or survey containing at least one question pertaining to each of the City’s stormwater related public education and outreach activities.

Year 2

b. Administer the survey through direct mail and the website achieving a return rate of 15% of the City’s population.

Years 2-5

PE.10 – Community-Based Social Marketing: The purpose of the City’s educational efforts is to achieve changes in people’s behavior related to stormwater that will improve the quality of the City’s stormwater and surface waters. Community-based social marketing is a particular marketing strategy, based upon research in the social sciences that demonstrates that behavior change is most effectively achieved through initiatives delivered at the community level which focus on removing barriers to an activity while simultaneously enhancing the activity's benefits. The City will assess community-based social marketing strategies, and will incorporate them into the SWMP where the City determines they will increase the effectiveness of the public education and outreach program.

Measurable Goals:

a. The City will assess community-based marketing strategies, and determine how they might increase the effectiveness of the City’s public education and outreach program.

Years 2-3

b. The City will modify its public education and outreach efforts, as necessary, to incorporate community-based social marketing strategies where the City determines they can improve the public education and outreach program by the end of Year 3.

Years 3-5

1.3 Reporting

The data collected for each measure (such as number of brochures distributed, number of print ads run, number of students in attendance, etc.) will be compiled, reviewed and summarized in annual reports. Significant variance from targets will be assessed and discussed in annual reports. Progress in implementing goals that have multi-year timelines (such as educational programs, event participation, and media campaign) will be reported annually. Implementation of existing BMPS will be fine tuned as needed. Measurable goals will be adjusted as appropriate, and the basis for any changes will be included in the next annual report.

**Table 1-2
BMP Implementation: Public Education & Outreach**

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PE.1	Pathogens, Sediments Nutrients (P, N, N03, N02) Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris)	Brochures	a. Brochures and posters provided in Spanish and English will be available online through the link to the County’s website , at city offices, at events, at City Council meetings and by mail upon request	1– 5	a. Compile numbers of brochures and alternative information sources distributed on excel spreadsheet	Public Works Director
			b. Distribute LID brochure to 100% of zoning applicants and by request online through the Planning Department website	2-5	b. Compile number of informational brochures distributed through Planning Department on excel spreadsheet. Document percentage of applicants who incorporate some type of LID in their projects on excel spreadsheet	
PE.2	Pathogens, Sediments Nutrients (P, N, N03, N02) Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris)	Webpage	a. Maintain the stormwater webpage quarterly to feature current SWMP documents and general information, and provide links to the County webpage.	1– 5	a. Update information on a quarterly basis	Public Works Director
			b. Publish webpage information on all educational documents.	1-5	b. Compile number of webpage hits	
			c. Add a question to the online / direct mail survey (PE.10) to insure residents are aware of the Stormwater webpage and County links.	3-5	c. The annual survey (PE.10) will contain one question pertaining to the stormwater webpage.	

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PE.3	Pathogens, Sediments, Nutrients (P, N, N03, N02), Hydrocarbons (O&G, lubricants), Pesticides, Gross pollutants (litter, trash, debris)	Event Participation	<p>a. A booth or stormwater exhibit will be staffed by the City - for the purpose of educating people and distributing information about stormwater issues - at one of the three annual clean up events and two other city events to be determined, based on which events will provide the most exposure.</p> <p>b. A short quiz or contest will be held to identify areas of concern</p>	<p>1-5</p> <p>2- 5</p>	<p>a. Staff will document the numbers of adults and children in attendance at each event (and when possible identify attendees to add to an interested parties list), types of brochures distributed and other pertinent information at each event and maintain an excel spreadsheet containing types of brochures and other information distributed or requested and evaluate annually</p> <p>b. Distribute, tabulate and review answer to a short quiz to identify areas of concern or that require more focus</p>	Public Works Director
PE.4	Pathogens, Sediments, Nutrients (P, N, N03, N02), Hydrocarbons (O&G, lubricants), Pesticides, Gross pollutants (litter, trash, debris)	Education programs for children	<p>a. The City will distribute, review and revise the materials distributed as required throughout the life of the permit with a goal of educating 50% of school children (K-8) every two years. City staff will coordinate with school staff to ensure that 50% of (K-8) school children receive stormwater education as specified.</p> <p>b. Staff will also conduct semi-annual meetings with teachers and parks and recreation staff to evaluate and adjust any programs offered.</p> <p>c. The City will hold an after-program contest/quiz to determine if the information was assimilated</p>	<p>1-5</p> <p>2-5</p> <p>3-5</p>	<p>a. Document the types of educational materials distributed and the numbers of children in receipt of the materials and participating in any type of clean up/ stormwater related annually.</p> <p>b. Document attendance and topics discussed</p> <p>c. Answers will be evaluated to determine areas requiring more stress. Tabulate responses and areas that require additional focus and adjust program accordingly.</p>	Public Works Director
PE.5	Pathogens, Sediments, Nutrients (P, N, N03, N02), Hydrocarbons (O&G, lubricants), Pesticides, Gross pollutants (litter, trash, debris)	Stormdrain marking	<p>a. The City has already completed marking 100% percent of the stormdrains within its jurisdiction. Staff will continue to monitor and repair the existing markers by checking them annually and replacing as necessary.</p> <p>b. All new storm drains will be required to be marked as installed. Such marking will be required in conditions of approval for any development or redevelopment project</p> <p>c. In order to determine if the general public identifies with the stormdrain markers add one question in the online/direct mail survey addressing the purpose of the markers</p>	<p>1- 5</p> <p>2-5</p> <p>2-5</p>	<p>a. Staff will update the stormdrain map accordingly as marker maintenance/ updates occur.</p> <p>c. Answers will be tabulated and staff will identify areas that require additional focus and adjust programs accordingly.</p>	Public Works Director

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PE.6	Pathogens, Sediments, Nutrients (P, N, N03, N02), Hydrocarbons (O&G, lubricants), Pesticides, Gross pollutants (litter, trash, debris)	Stormwater hotline	<p>a. The City will promote the use of the hotline through all printed materials and the web site.</p> <p>b. The City will log the number of all calls, and respond to 100% of calls received within 24 hours by sending the necessary personnel to address the problem. The City will document the nature of each call; the date, location, and type of any discharge reported; the City's response, including enforcement and abatement actions, and the results of the City's response.</p> <p>c. Include a question about the hotline in the online and direct mail surveys</p>	<p>1 -5</p> <p>1-5</p> <p>3-5</p>	<p>a. Log number of calls received.</p> <p>b. Document number of calls, answers and types of responses</p> <p>c. Answers will be tabulated and staff will identify areas that require additional focus and adjust programs accordingly.</p>	Public Works Director
PE.7	Pathogens, Sediments, Nutrients (P, N, N03, N02), Hydrocarbons (O&G, lubricants), Pesticides, Gross pollutants (litter, trash, debris)	Direct Mail/ Media campaign	<p>a. Staff will place stormwater related articles in three issues of a local newspaper annually.</p> <p>b. Include a question news articles, in the online and direct mail surveys.</p>	<p>1 -5</p> <p>3-5</p>	<p>a. Compile number of residents receiving the Banner and document the issues in which each topic is mentioned.</p> <p>b. Answers will be tabulated and staff will identify areas that require additional focus and adjust programs accordingly.</p>	Public Works Director
PE.8	Pathogens, Sediments, Nutrients (P, N, N03, N02), Hydrocarbons (O&G, lubricants), Pesticides, Gross pollutants (litter, trash, debris)	Business Outreach	<p>a. Distribute informational materials/brochures pertaining to business, already developed by the County at zoning clearance and annually to businesses</p> <p>b. Staff will ask business owners during any site visit or other interaction: 1) if they are familiar with the stormwater program; 2) if they are aware of the requirements imposed for their type of business; 3) and if they believe their business to be in compliance with those requirements. Staff will visit 75% of all new businesses and 20% of existing businesses annually, with a target of increasing awareness by 10% annually.</p> <p>c. During any site visit Staff will inspect businesses for compliance with stormwater requirements, Staff will visit 75% of all new businesses and 20% of existing businesses annually.</p> <p>d. Staff will achieve compliance with stormwater requirements at all businesses inspected annually through the use of established enforcement procedures</p>	<p>1-5</p> <p>2-5</p> <p>2-5</p> <p>2-5</p>	<p>a. The City will compile number of materials/brochures, zoning clearance information distributed and the names of recipients when available, annually to businesses</p> <p>b The number of businesses reached and answers will be tabulated and staff will identify areas that require additional focus and adjust programs accordingly.</p>	Public Works Director

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PE.9	Pathogens, Sediments, Nutrients (P, N, N03, N02), Hydrocarbons (O&G, lubricants), Pesticides, Gross pollutants (litter, trash, debris)	Public Survey	a. The City will develop an assessment strategy such as an online quiz or survey containing at least one question pertaining to each of the City's stormwater related public education and outreach activities. b. Administer the survey through the <u>direct mail</u> and the website achieving a return rate of 15% of the City's population.	2 2-5	b. Answers will be tabulated and staff will identify areas that require additional focus and adjust programs accordingly.	Public Works Director
PE.10	Pathogens, Sediments, Nutrients (P, N, N03, N02), Hydrocarbons (O&G, lubricants), Pesticides, Gross pollutants (litter, trash, debris)	Ongoing Assessment of Community-Based Social Marketing Strategies	a. Assess community-based marketing strategies, and determine how they might increase the effectiveness of the City's public education and outreach program. b. Modify the City's public education and outreach efforts, as necessary, to incorporate community-based social marketing strategies where the City determines they can improve the public education and outreach program by the end of Year 3.	2-3 3-5		Public Works Director

2.0 PUBLIC PARTICIPATION AND INVOLVEMENT

This minimum control measure is intended to foster active community support for the SWMP and direction as to its implementation. Participation by the public ensures that the program reflects community values and priorities and thus has the highest potential for success. All public notices related to this minimum control measure will be conducted in compliance with all State and local public notice requirements.

2.1 Minimum Requirements

USEPA guidelines recommend the following "Best Management Practices" for the Public Participation/Involvement minimum control measure (*Fact Sheet 2.4 Public Participation/Involvement Minimum Control Measure, 01/00; and "Measurable Goals Guidance for Phase II Small MSAs"*):

- Establish a steering committee
- Hold regular public meetings
- Establish regular coordination among agencies
- Volunteer water quality sampling
- Community clean-ups

These BMPs assure that the program will be supported by City residents and provide input to guide development of the program in the future.

2.2 Best Management Practices

Since the established North County Stakeholders meetings have proven to garner few if any attendees, the City will not attempt to establish a steering committee but instead focus on regularly attended public forums (see following page).

The City will implement the Best Management Practices and Measurable Goals described below. Effectiveness Measures and Measurable Goals are outlined in tables immediately following descriptions.

PI.1 Hold regular public meetings

Annual NPDES permit reports, including any public and/or RWQCB comments, will be presented annually in a public forum, such as at a City Planning Commission or Council meeting to update the community on the storm water program, address any storm water concerns, City accomplishments, and future goals. The first such meeting is scheduled for Fall 2009. In addition, City staff will work with other local Phase II permittees and the Regional Water Quality Control Board to explore alternative public forums on water quality.

Measurable Goals:

a. The City will present the NPDES permit report, and any pertinent comments annually at City Planning Commission and /or City Council meetings. Feedback received and the City's response will be documented and tracked. Comments pertaining to new stormwater ordinances will be solicited prior to and during code development. Information will be available at two other city events. Information requested will be sent to any interested party.

Years 1-5.

b. The direct mail /online survey (PE.9) will contain one (1) question pertaining to the annual report.

Years 3-5.

c. City staff will develop and implement a tracking system document implementation, effectiveness, inspection, inspection results, and maintenance/replacement of all municipal BMPs.

Year 2

City staff will perform annual evaluation of the appropriateness and effectiveness of BMPs, reviewing 50% of the BMPs for municipal operations each year, and will revise or replace BMPs as necessary.

Years 3-5

PI.2 Establish regular coordination among local agencies/stakeholders

Since 1998, the County has hosted a quarterly meeting of local, state and federal agencies with interests in local and regional storm-water issues. This meeting of the "intergovernmental committee" includes both regulators (such as RWQCB) and regulated entities such as the City. The City will participate in this Intergovernmental Committee (now recognized as the Santa Barbara County Association of MS4 Managers-SBCAMM). Topics for discussion are suggested by participants and include development and interpretation of non-point source regulations, opportunities for cooperative efforts, emerging technology and sharing of water quality information. Through this group the City is also kept apprised information provided by the California Storm Water Quality Association (CASQA), which facilitates the exchange of information and joint research and efforts among Phase I and Phase II agencies statewide. CASQA meets on a bimonthly basis.

Measurable Goals:

a. Staff will attend as many applicable meetings as financially possible (i.e., SBCAMM, meetings, and CASQA meetings/workshops), maintaining a 75% attendance rating at SBCAMM meetings annually.

Years 1-5

b. Staff will coordinate with County and other local cities on CASQA information.

Years 1-5

PI.3 Community clean-ups

Each year the City will sponsor at least one clean-up effort within the City limits. The City currently holds three annual clean up events. Community participation is solicited through the local school district, and subsequently through the school district-local clubs and youth organizations.

Measurable Goals:

a. The City will sponsor one clean up event annually
Years 1-5

b. The City will promote the clean up day by placing advertising posters at other city events and/or meetings and at various city buildings, and by running 1-5 radio spots on local radio stations and 1-3 news articles in local news media.
Years 1-5

c. Increase attendance by 10% annually.
Years 2-5

PI.4 Solvang Hazardous Waste Facility

The City will help to promote the public use of the hazardous waste facility in the City of Solvang as one tool to promote a clean and healthy watershed.

Measureable Goals:

a. Information pertaining to the hazardous waste facility in the City of Solvang will be available on the website and updated quarterly, it will be mentioned in 1-3 news articles (print and/or radio) annually.
Years 1-5

PI.5 Water Quality Hotline

See discussion under “Public Education and Outreach” Minimum Control Measure (PE.6). The hotline encourages community members to report water quality problems that they observe. The hotline is promoted on all printed materials and through the City and County web sites. The Public Works Director is notified of all calls received.

Measureable Goals:

a. City Staff will continue to participate in the hotline program.
Years 1-5

PI.6 – Interested Parties List: The City will develop an interested parties list for people interested in receiving information about the City’s stormwater program. Interested parties will have an opportunity to sign up on the list through the website, at public meetings related to the stormwater program, at public events attended by City staff for the purpose of providing stormwater education, and at the clean up day.

Measurable Goals:

a. Develop an interested parties list by making sign-up opportunities available on the City’s website, at public meetings related to the stormwater program, at public events attended by City staff for the purpose of providing stormwater education, and at the clean up day.
Years 1-5

b. Send information about all developments in the City’s stormwater program (e.g., annual reports, ordinance changes, etc.) and about all upcoming meetings and events to people signed up on the interested parties list.

Years 1-5.

2.3 Reporting

The data collected for each measure will be compiled, reviewed and reported in annual reports. Significant variance from targets will be assessed and discussed in annual reports. Measurable goals will be adjusted as appropriate; the basis for any changes will be included in the next annual report. Feedback received from elected officials and the general public through City Council, Planning Commission, and Recreation and Parks Commission meetings will be documented and used to improve implementation of all six minimum control measures.(see PI.1.a)

**Table 2-1
BMP Implementation: Public Participation**

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PI.1	Pathogens, Sediments, Nutrients (P, N, N03, N02), Hydrocarbons (O&G, lubricants), Pesticides, Gross pollutants (litter, trash, debris)	Hold Regular Public Meetings	a. The City will present the NPDES permit report, and any pertinent comments annually at City Planning Commission and /or City Council meeting and two other events annually. Feedback received and the City’s response will be documented and tracked. Comments pertaining to new stormwater ordinances will be solicited prior to and during code development. Information requested will be sent to any interested party	1 -5	b. Answers will be tabulated and staff will identify areas that require additional focus or continuing trends and adjust programs accordingly.	Public Works Director
			b. Online direct mail survey to include a question about the annual report.	3-5		
			c.City staff will develop and implement a tracking system document implementation, effectiveness, inspection, inspection results, and maintenance/replacement of all municipal BMPs.	2		
			City staff will perform annual evaluation of the appropriateness and effectiveness of BMPs, reviewing 50% of the BMPs for municipal operations each year, and will revise or replace BMPs as necessary.	3-5		
PI.2	Pathogens, Sediments, Nutrients (P, N, N03, N02), Hydrocarbons (O&G, lubricants), Pesticides, Gross pollutants (litter, trash, debris)	Establish interagency/ stakeholder communication	a. Staff will attend as many applicable meetings as financially possible (i.e. SBCAMM, meetings, and CASQA meetings/workshops), maintaining a 75% attendance rating at SBCAMM meetings annually.	1-5	a. Provide sign in sheets and document any programs/ideas BMPs that have been obtained. Document ideas used.	Public Works Director
			b. Staff will coordinate with County and other local cities on CASQA information	1-5	b. Staff will identify areas that require additional focus adjust programs accordingly	

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PI.3	Pathogens, Sediments Nutrients (P, N, N03, N02) Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris)	Community Cleanup	a. City will sponsor one clean up event annually. b. The City will promote the clean up day by placing advertising posters at other city events and/or meetings and at various city buildings, and by running 1-5 radio spots on local radio stations and 1-3 news articles in local news media. c. Increase attendance by 10% annually.	1-5 1-5 2-5	a-c. Document community clean-up locations and attendance ; Measure the amount of waste collected at each event by total weight and number of bags collected;	Public Works Director
PI.4	Pathogens, Sediments Nutrients (P, N, N03, N02) Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris)	Hazardous Waste Facility	The City will provide information pertaining to the hazardous waste facility in the City of Solvang information will be available on the website and updated quarterly, it will be mentioned in 1-3 news articles (print and/or radio) annually.	1-5	Staff will assess effectiveness of the use of this facility and the impact it has on overall water quality by including a question regarding its use in the annual online survey	Public Works Director
PI.5	Pathogens, Sediments Nutrients (P, N, N03, N02) Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris)	Water Quality Hotline	Maintain the water quality hotline (PE.6)	1 -5	See PE.6	Public Works Director
PI.6	Sediment Nutrients (P, N, N03, N02) Metals Detergents Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris) Toxics (organics, hazardous waste, etc.)	Interested Parties List	a. Develop an interested parties list by making sign-up opportunities available on the City's website, at public meetings related to the stormwater program, at public events attended by City staff for the purpose of providing stormwater education, and at the clean up day. b. Send information about all developments in the City's stormwater program and about all upcoming meetings and events to people signed up on the interested parties list.	1-5 1-5		Public Works Director

3.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION

This minimum control measure of the Storm Water Management Program is designed to reduce pollutants in storm water runoff to receiving waters. It requires the development and implementation of a system to identify and eliminate sources of illicit discharge and illegal dumping. The City will enhance its current system to identify and eliminate illicit discharges throughout the permit area. This system will primarily depend on City employees periodically reviewing and inspecting common problem areas in the City.

City staff (including at least one certified Storm Water Inspector or Professional Engineer) will also work closely with the County and Caltrans officials to provide adequate storm water protection for areas within the City’s jurisdiction. In Year 1, a map clearly identifying “trouble spots and potential illegal dumping areas” in the City will be developed and will be continually updated as areas are cleared or new areas identified. The system will also depend on input and reporting by the public on illegal dumping by contacting the City or the hotline as previously described in this SWMP. The specific requirements for this system are described in detail below, including measurable goals and effectiveness measures.

3.1 Minimum Requirements

USEPA guidelines establish the following “Best Management Practices” for Illicit Discharge Detection and Elimination Minimum Control Measure (*USEPA Fact Sheet 2.6, 01/00*):

- Develop, implement and enforce a program to detect and eliminate illicit discharges
- Develop a storm sewer system map, showing the location of all outfalls and the names and location of all waters of the United States that receive discharges from those outfalls
- To the extent allowable under State or local law, effectively prohibit, through ordinance, or other regulatory mechanism, non-storm water discharges into the storm sewer system and implement appropriate enforcement procedures and actions;
- Develop and implement a plan to detect and address non-storm water discharges, including illegal dumping, to the system; and
- Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.

The following discharges may be exempted from being regulated discharges unless they are determined to be a significant source of pollution or a nuisance. Currently the city utilizes existing ordinances to prevent any of these activities from making a significant contribution of pollutants and address the following categories of non-storm water discharges or flows (i.e., authorized non-storm water discharges) only where they are identified as significant contributors of pollutants to the Small MS4:

1. Water line flushing: Although this activity is not identified as a significant source of pollution or nuisance, where possible water is diverted into the closest planters or vegetated areas. Public works crews are instructed to create sandbag barriers so that the water is caught and any additional debris or sediment will be retained in the sandbag. See table 6-2;
2. Landscape irrigation: Although this activity is not identified as a significant source of pollution or nuisance, the City has been adjusting irrigation with weather patterns, using and converting where appropriate to “smart-controllers”. In addition, improvements to irrigated areas in medians or sidewalks with the potential for run-off are being made in phases to eliminate runoff. Irrigation in the City is mentioned in section GH.4 of this SWMP, and its affects are limited by the use of native and drought resistant plants. The general public’s activities are covered under PE.1 with changes to the existing ordinances being addressed under ordinance review.
3. Diverted stream flow: Stream flows are not allowed to be diverted; therefore there is no significant impact. Streams are allowed to flow on their natural path;
4. Rising ground waters: no significant impact (rising groundwater, pumped groundwater, foundation and footing drains, etc. issues are reviewed on a case by case basis and installed with approved BMPs (i.e.: leach lines and gravel and filter fabric wraps where necessary.);

5. Uncontaminated groundwater infiltration (as defined in 40 CFR §35.2005[20]): There has not been any increased flows documented to indicate seepage affecting the City's systems and is therefore not identified as a significant source of pollution or nuisance. Therefore, the City does not address seepage into underground stormwater pipes through pipe joints, connections, manholes, etc;
6. Uncontaminated pumped groundwater: Although this activity is not identified as a significant source of pollution or nuisance, the City does pump groundwater as part of their potable water system; pumps are located in a containment area;
7. Discharges from potable water sources: This practice is discouraged as part of the City's conservation efforts. There is no direct prohibition or penalties, however all potable water users have a meter and they are charged for the water usage. The city will further evaluate the activity of using mobile pressure washers for sidewalk and parking lot cleaning;
8. Foundation drains: This activity has not been identified as a significant source of pollution or nuisance, therefore the City does not address;
9. Air conditioning condensation: This activity has not been identified as a significant source of pollution or nuisance, therefore the City does not address;
10. Irrigation water: There are no farmed lands within the City limits, for residential irrigation See 2 and 7;
11. Springs: There are no springs within the City, therefore the City does not address;
12. Water from crawl space pumps: This activity has not been identified as a significant source of pollution or nuisance, therefore the City does not address;
13. Footing drains: This activity has not been identified as a significant source of pollution or nuisance, therefore the City does not address;
14. Lawn watering: See 2 and 7;
15. Individual residential car washing: This activity has not been identified as a significant source of pollution or nuisance, therefore the City does not address;
16. Flows from riparian habitats and wetlands: This activity has not been identified as a significant source of pollution or nuisance, therefore the City does not address; and
17. Dechlorinated swimming pool discharges: The City does not prohibit this activity, however, the discharge must be dechlorinated.

Discharges or flows from firefighting activities are excluded from the effective prohibition against non-storm water, and need only be addressed when they are identified as significant sources of pollutants to waters of the United States. The following BMPs will be implemented by the City within 5 years of SWMP approval to satisfy the MCMs of Illicit Discharge Detection and Elimination.

Items listed above have such a minimal affect on the storm water quality of the area that they can be exempted from the SWMP. Though they are not addressed specifically in this SWMP it is still important to educate the public and City employees on the BMPs regarding these items to prevent them from becoming a POC. For example:

1. Street and sidewalk washing is mentioned in this SWMP section GH.1 while car washing is addressed in section PP.3 under training of Vehicle Maintenance. Modification of the general public's activities are covered under PE.1; with changes to the existing ordinance being addressed under the ordinance review.
2. Water line Flushing is mentioned in this SWMP in Table 6-2 under water pressure testing and fire hose testing.
3. Swimming pool discharge is neglected due to the minimal number of pools in the City.
4. Irrigation in the City is mentioned in section ID.4 of this SWMP, and its affects are limited by the use of native and drought resistant plants. The general public's Activities are covered under PE.1 with changes to the existing ordinances being addressed under ordinance review.
5. Rising Groundwater, pumped groundwater, foundation and footing drains, etc. issues are on a case by case basis and installed with BMPs such as leach lines and gravel and filter fabric wraps where necessary.
6. Diverted stream flows are also neglected due to the fact the streams are allowed to flow on their natural path.

3.2 Best Management Practices

The City intends to maintain ongoing efforts to control illicit discharges at current levels and will implement additional suggested "Best Management Practices" listed in this section to develop, implement, and enforce a program to detect and eliminate illicit discharges. Currently the City's ordinance related to illicit discharges is the same as the County of Santa Barbara, adopted by reference. The City has begun the process of evaluating the need for a storm water ordinance or other regulatory mechanism and recognizes accepted BMPs for use within the City's jurisdiction. The future ordinance must provide "right of entry" to private property for the inspection of individual sources of illicit discharges.

The City will implement the Best Management Practices and Measurable Goals described below. Effectiveness Measures and Measurable Goals are outlined in tables immediately following descriptions.

ID.1 Storm Drain System Mapping

The City has an atlas of its underground storm drains that shows major pipes and outfall locations of the City's storm drain system. Additional research is necessary to confirm the completeness of the storm drain system map, in particular storm drain inlet locations, particularly in most recently developed areas. This existing storm drain system map is attached for reference. It is anticipated that the storm drain atlas will be completed by the end of year two. The atlas will be continually updated as new development installs drainage structures within the City. Currently approximately 79 % of the City's residential-zoned land is developed and approximately 92% of the commercial/industrial-zoned land is already built out.

Measurable Goals:

- a. The City will have a 100% complete stormdrain map.
Years 2-5
- b. This map will be updated and revised annually to include any changes to existing stormdrains or new development. The map will be utilized to track and document illicit discharge sources.
Years 3-5

ID.2 Storm Water Ordinance

The City and County share jurisdiction over various facilities and potential dischargers (such as restaurants and schools). The City and County currently have a number of ordinances prohibiting inappropriate waste disposal,

including prohibitions against unpermitted discharge of liquid waste, and illegal disposal of solid waste. (City ordinances are listed in Attachment D) These ordinances also apply to and regulate the prevention of storm water impairment through the prohibition, enforcement and abatement remedies that they encompass. Although these ordinances have been sufficient to meet storm water protection objectives to date, a future evaluation of existing City ordinances is part of this SWMP.

Existing codes and ordinances will be modified, if necessary, to achieve the following minimum requirements of the General Permit:

- Develop, implement, and enforce a program to detect and eliminate illicit discharges to the City's regulated storm drain system;
- Effectively prohibit, to the extent allowable by law, non-stormwater discharges into the storm drain system, including illegal dumping, and implement appropriate enforcement procedures and actions; and
- Address those non-stormwater discharges listed in GP section D.2.c (6) where they are identified as significant contributors of pollutants to the City's storm drain system.

By the end of Year 1 the City will evaluate the scope of existing ordinances and the level of success in addressing illicit discharge under existing regulations. The City will determine the need for an additional ordinance to specifically address non-storm water discharges in Year 2 of the permit. Any new ordinances will be adopted by the end of Year 3 if deemed necessary. The City will evaluate the effectiveness of the new ordinance at eliminating illicit discharges and prohibiting non-stormwater discharges to the MEP, and to modify it as necessary. The City will use the above requirements as criteria for evaluation of the existing codes and ordinances.

All appropriate City departments will evaluate existing regulations in the context of a new blanket storm water ordinance to ensure that any new ordinance does not conflict, interfere with, duplicate or negate existing law and enforcement. Due to the extent of build-out already attained in the city (approximately 79% of residential areas and 92% of commercial/industrial areas) logically the primary focus of the City's new ordinances will be to introduce BMPs for existing and remodeled areas with a secondary focus on new building practices.

Authority for detection and elimination of illicit dischargers and illegal connections are referenced or described in:

- Adoption of "conditions of approval" for new development projects. Per AB 3180 (PRC 21081.6). The City has established a program to monitor CEQA mitigation measures adopted as conditions of approval on new development projects
- City Excavation and Grading Code, which includes preparation and implementation of erosion control plans.

The City will evaluate the effectiveness of existing and new laws to ensure that they are adequate to address pet/animal waste and other sources of potential creek contamination. To the extent that new regulations are necessary to meet the objectives of NPDES Phase II regulations and the State's General Permit, the City will adopt appropriate regulations before the completion of year 3.

The following evaluations will be part of this assessment to determine the current needs and abilities of the City to regulate and enforce water quality protection measures through a new ordinance:

- Primary enforcement responsibilities may need to be further clarified among the various City Departments and other enforcement entities.
- A determination will be made regarding whether additional staff resources are needed for enforcement. Additional funding sources for enforcement, if necessary, will be provided to the appropriate departments.

Existing ordinances and laws will be reviewed by City staff to determine effectiveness and what will be done for improvement.

Enforcement is conducted by City staff and includes items such as stop work notices and fines. These enforcement measures will still be applicable until they are reviewed by the City staff and determined how effective they are. Effectiveness can be measured by number of violations, repeat offenses, and reports of illicit discharge in the City.

Table 3-1: Legal References

Animal waste	Liquid discharge from commercial vehicles
City Code Title 5 Public Health and Safety	City Code Title 5 Public Health and Safety
City Code Title 6 Police Regulations	Health and Safety Code §§5410 et. seq.
Health and Safety Code §§5410 et.seq.	Water Code §§13000 et. seq.
Water Code §§13000 et.seq.	Fish and Game Code §§5650 et.seq.
Fish and Game Code §§5650 et.seq.	Penal Code §§374.3 et. seq.
Penal Code §§374.3 et.seq.	
General dumping of trash	Discharge of liquid waste from recreational vehicles
City Code Title 5 Public Health and Safety	City Code Title 5 Public Health and Safety
City Code Title 8 Public Ways and Property	Health and Safety Code §§5410 et.seq.
Health and Safety Code §§5410 et.seq.	Health and Safety Code §§117550
Health and Safety Code §§117550	Water Code §§13000 et.seq.
Water Code §§13000 et.seq.	Fish and Game Code §§5650 et.seq.
Fish and Game Code §§5650 et.seq.	Penal Code §§374.3 et.seq.
Penal Code §§374.3 et. seq.	

Measurable Goals:

a. The City will evaluate the scope of existing ordinances and the level of success in addressing illicit discharge under existing regulations. The City will use the minimum requirements of the General Permit as criteria for evaluation of the existing codes and ordinances.

Year 1.

b. The City will modify its existing ordinances, or develop new ordinances, where necessary.

Years 2

c. The City will adopt and begin implementing and enforcing its revised and/or new ordinances.

Years 3-5.

ID.3 Education & Outreach

One effective action in the elimination and prevention of illicit discharges is the education and cooperation of a concerned public. Education is a primary tool of enforcement activities. The efforts for educating the community about eliminating illicit discharges, listed below, are discussed in greater detail in Section 1.0 - Public Education and Outreach:

- City and County web sites
- Regional Water Quality Hotline (1-877-OUR-OCEAN)
- Business outreach
- Sanitary system pre-treatment inspections
- Brochures
- Public events
- Media campaign

Since many illicit discharges can occur due to a lack of awareness on the part of the discharger, education is an important tool of enforcement activities. Often, simply pointing out the error and suggesting best management practices to be used in the future is enough to convince businesses and homeowners to cease discharging, dumping or to eliminate an illegal storm-drain connection. In most cases the individual responsible can be motivated to do the right thing, and will implement appropriate BMPs.

Outreach to the community

Targeted information brochures are currently available from the County addressing creek-side residents, owners of domesticated animals, and various businesses to educate them on appropriate BMPs to reduce these types of violations. Informational brochures have been developed for issuance along with each new zoning application. (see PE.1)

Measurable Goals:

a. Information pertaining to commercial training events held by the County and other local entities will be distributed (as it is available) to interested parties and during site visits.

Years 1-5

b. Illicit discharge will be addressed in 1 of every 3 of the storm water outreach articles that appear in local papers.

Years 1-5

c. The City will evaluate the economic viability of holding its own commercial training events. As an alternative, the City may partner with the County and other local entities hosting commercial training events.

Year 3

ID.4 Municipal Employees

The City has arranged to partner with the City of Santa Maria to use the illicit discharge detection and elimination pocket guide they have developed for Solvang City staff. The purpose of the pocket guide is to provide additional information and guidance for staff to identify and report illicit discharges, connections, or activity encountered during their regular duties. Staff participation and recognition of illicit discharges will greatly reduce the economic, health, and environmental consequences associated with illicit connections and discharges into the MS4. This pocket guide will be distributed to City Public Works staff during Storm Water Pollution Prevention (SWPP) training sessions, beginning in year 2. A post training test will include two questions pertaining to the pocket guide and its use.

Measurable Goals:

a. The City will train all relevant staff annually. All Public Works (PW) staff will be trained in call/complaint receipt procedures; all relevant staff (all PW field and vendor staff) in detecting illicit discharges and connections; all relevant staff (all field and vendor staff) in spill and complaint response procedures; all relevant staff (all PW field and vendor staff) in field investigation and abatement procedures.

Years 1-5

b. 100% City employee (Public Works and Engineering) in participation in annual in-house training for illicit discharge awareness and best management practices at work and home. Staff will identify areas that require additional focus and adjust programs accordingly.

Years 1-5

c. 100% of City municipal staff responsible for illicit detection and elimination will use the pocket guide developed by the City of Santa Maria to identify illicit discharges and connections in the field.

Years 1-5

d. The City will have a Professional Engineer or a Certified Stormwater Inspector on staff.

Year 1-5

ID.5 Identification and Elimination of Illicit Discharge Sources

In order to maximize the limited resources available, potential sources of illegal dumping and illicit connections are identified and prioritized based in part on public access and contact to the area (or storm drain), and characterization of nearby land uses as industrial, commercial, and older residential areas. In addition, the sources shown in Table 3-2 will be evaluated on an on-going basis for their potential impacts to the storm water quality within City watersheds.

The City’s existing program for identification and elimination of illicit discharge sources comprises two parts:

1. Spill and/or Complaint Response
2. Field Investigation and Abatement

These two program elements are discussed in more detail on the following page. City Public Works, County Environmental Health Services, County Flood Control/Water Resources, the County Fire Department, Cal-Trans and other agencies are all engaged in detection and elimination of illicit discharge activities within the City of Solvang.

Table 3-2: Potential Illicit Discharge Sources

Accidents Spills of Vehicle Fluids (antifreeze, gas, oil, grease, hydraulic fluids, lubricants) Glass Asbestos Brake Fibers	Food Facility Cleaning Facility Cleaning - gray water Cooking Equipment - grease, oil and hazardous cleaning agents Grease Trap Dumpsters Floor Mats	Oil Drips/Fuel Leaks (new/used)
		Commercial
		Residential / Apartments
		Paint
		Parking Lots
Auto Dealers	Gas Stations/ Service Stations	Pools and Spas
Auto Shops	Car Wash	Residential
Auto - Residential Cleaning	Illicit Connections	Grey Water
Businesses Washdown	Residential	Hazardous Materials
Commercial Irrigation	Commercial	Pesticides
Construction	Industrial	Fertilizers
Sediment	Illegal Dumping	Sediments
Concrete Cuttings & Wash	Solids	RV Waste
Carpet/Residential Cleaning	Liquids	Sewage Spills
Cement Washing	Industrial Cooling Water	Septic Spills
Equipment Cleaning	Mobile Pet Services	Sumps/Dewatering

The following procedures are used to address the ongoing identification and abatement of illicit discharges:

Spill and Complaint Response

- Receive complaint or notice of the spill, discharge or illegal connection. Complaints are often received from other local agency staff or through the Project Clean Water

Hotline at 1-877-OUR-OCEAN. They will also be fielded through the City's direct contact noted on the City webpage and through the email link. These contacts are: (805) 686-5575 and tully@cityofsolvang.com

- Identify the potential source of the discharge to determine appropriate response agency.
- Document response and track the spill/discharge to source.
- Use education and enforcement to eliminate the discharge to the storm drain/sewer or ground surface.
- Impose BMPs if applicable to assure on-going compliance with City Ordinances.
- Maintain records of response to establish database, and to identify re-occurrence patterns, report on response records during presentation of the annual report, reevaluating procedures as deemed necessary.
- Establish ongoing compliance through subsequent site visits/inspections.

Field Investigation and Abatement

- Identify and prioritize areas of potential illicit discharge and/or illegal connections for residential, commercial and industrial locations based on specified criteria and those areas identified in Table 3-2.
- Conduct annual creek walks to identify potential sources.
- Conduct field/manhole/site inspections.
- Verify illicit discharge/illegal connection and identify the source.
- Use education and/or enforcement to eliminate the discharge to the storm drain/sewer or ground surface.
- Impose BMPs if applicable to assure on-going compliance with City Ordinances.
- Maintain records of response to establish data base and to identify reoccurrence patterns, report on response records during presentation of the annual report, reevaluating procedures as deemed necessary.
- Establish ongoing compliance through subsequent site visits/inspections.

Enforcement of existing policies and ordinances is crucial to the effort of maintaining water quality in the creeks and oceans. The City and County use a "single point" system for reporting water quality problems, tracking follow-up, and insuring enforcement of water quality policies/ordinances. These efforts include a water quality reporting hotline (1-877-OUR-OCEAN for County and general reporting, and (805) 686-5575 for direct reporting for incidents within the City of Solvang), coordination between various enforcement agencies and personnel, and increased report follow-up.

The initial approach to prevention and elimination is education on what the pollution source is what effects it has on our watershed and how the problem may be eliminated through best management practices. When necessary, education can be used in combination with legal enforcement in order to achieve elimination of the illicit discharge.

In addition to complaints, creek walks conducted in the late summer/fall in each watershed will identify places where solid waste has been discarded into the creek or along the creek banks on an annual basis. To address these issues, letters and informational brochures are sent to property owners whose parcel is clearly identified as the source of contamination. For example, if a large pile of green waste is seen directly on the creek bank behind a home, a letter would be sent to the owner of that parcel explaining the impacts green waste has on water quality and outlining alternative methods of disposal or composting of green waste. Existing water-quality brochures, such as "Creekside Concerns", "A Dog-Owner's Duty", and are included in the letter as appropriate.

Educating the general public, business owners, industries, school children, teachers, and regulatory personnel on the hazards associated with illegal discharges and improper disposal of waste is being accomplished in a number of ways. A detailed discussion on storm water educational outreach and participation is made in Sections 1.0 and 2.0 of this document. In addition to educating the public, City employees will also participate in in-house training to increase awareness at work and at home of illicit discharges and the hazardous effects they have and the best management practices to implement.

Activities to identify and eliminate illicit discharges are summarized by City and County departments below:

City Public Works: City staff responds to complaints regarding water quality throughout the year. Response occurs within twenty-four hours of notification, resulting in compliance with the performance measures regarding service response. Complaints range from illegal dumping of trash, horse manure and green-waste in the creeks to the illegal disposal of liquid waste. Complaint response may require the cooperation of many agencies. Callers are not always aware of the boundaries between incorporated and unincorporated areas, so a call referral system has been established so that calls can be efficiently redirected to the correct agency.

County Environmental Health Services (EHS): Another program that abates illicit discharge violations is the EHS Community Health Program. District Specialists perform routine annual inspections and complaint investigations at all retail food facilities. EHS has expanded their normal inspection techniques (such as time and temperature controls for perishable foods) to include storm water management activities. Due to increased public awareness, EHS has received a greater number of complaints associated with unlawful discharges from permitted food facilities. Illegal activities include floor mat and floor wash-down discharge to storm drains. EHS responds to each complaint and takes appropriate enforcement action. The appropriate Health and Safety Code authority is cited for each violation and abatement obtained.

Additionally, EHS also cooperates with the staff of the Cities of Buellton, Solvang, Santa Barbara, Goleta and Carpinteria to create a regional outreach and recognition program for restaurants that have established good operational practices to prevent the discharge of liquid waste off-site and into storm drains. See County of Santa Barbara Storm Water Management Program.

EHS Liquid Waste Program: This program investigates and abates violations of liquid waste discharge. Illegal and/or illicit discharges of liquid waste onto the ground surface and/or into the storm drain collection system may be the result of discharges from faulty sewer laterals, sewer mains or failing septic systems. Correction notices are issued to owners of deficient septic systems, requiring them to make repairs or upgrades as necessary to meet current septic system sanitary standards. Inspections to ensure remediation of the problem may be made by EHS and/or City Planning staff.

In an effort to prevent illicit discharges from faulty septic systems, in April 1999, Environmental Health Services revised Chapter 29 of the County Code to include mandatory reporting of septic system servicing and inspection. This ongoing reporting system of voluntary septic system servicing reveals operational problems in existing septic systems. These systems are required to make repairs or modifications to meet minimum operational sanitary standards.

Concurrent with the efforts described above, EHS is supporting the efforts of several local community groups (e.g. Heal the Ocean, CURE, etc.) to provide incentives to parcel owners using septic systems in problem areas to convert their systems to sanitary sewer.

County Fire Department – Protection Services: Labeling and storage of hazardous material is within the jurisdiction of the County Fire Department. For new businesses that use or store hazardous materials, conditions of approval are included in the standard conditions and mitigation measures enforced by this department. These require that a safe, storage area for pesticides, herbicides, and fertilizers be designed to contain spills. In addition, a Hazardous Materials Business Plan must be submitted to the Fire Department for review and approval for each business in order to detect potential hazards associated with the chemicals.

The Fire Department is responsible for inspecting sites and monitoring their compliance with hazardous materials best management storage practices and spill response. First responders and the hazardous materials response team may conduct a spill response, depending on the hazard level and severity of the spill. Emphasis is made on containment and cleanup with public health and safety as the foremost consideration in an environmentally sensitive manner. The Fire Department facilities and operations are discussed in Section 6.0.

Measurable Goals:

a. City Staff will respond to complaints within 24 hours of receiving the complaint, referral or notice. Staff will document number/type of complaint responses.

Years 1 -5

b. Staff will add one question about spill response to the direct mail/online survey that is completed as part of PE.7.

Years 3-5

c. City staff will identify and prioritize potential sources and potential source areas of illicit discharges (including the 17 authorized non-stormwater discharges described in General Permit Section D.2.c(6)) on the basis of their potential to contribute pollutants to the City's MS4. When the potential illicit discharge source corresponds to a geographical location, City staff will indicate the location on the City problem areas map.

Year 3

d. Staff or designated volunteers will conduct quarterly inspections of priority potential discharge areas and known trouble spots looking for evidence of illegal dumping and illicit discharges. During these inspections staff will evaluate, through visual inspection, whether any of the 17 authorized non-stormwater discharges described in General Permit Section D.2.c (6) have the potential to contribute pollutants to the MS4.

Years 2-5

e. City ordinances will be modified to prohibit any of the allowable non-stormwater discharges that are determined to be a significant source of pollutants.

Year 3-5

f. Staff or designated volunteers will walk the length of all creeks within the City's boundary annually looking for evidence of illegal dumping and illicit discharges.

Years 2-5

g. City staff will inspect 25% of City storm drain catch basins/drainage inlets annually for evidence of illicit discharges.

Years 2-5

h. The City will track discharges, maintain records of responses, and implement enforcement provisions currently utilized in the City and or impose BMPs if necessary, to assure compliance.

Years 1-5

i. The City will establishing on-going compliance through subsequent inspections.

Years 1-5

j. The City will establish or adopt a numeric criteria threshold for POC classification.

Year 3

k. The City will record on a spreadsheet and evaluate 100 % of EHS inspections and Fire Dept. hazmat inspections/spill responses on the basis of content that pertains to stormwater quality.

Years 1-5

l. The City will compile a comprehensive inventory of all businesses in the City with the potential to discharge pollutants to the MS4, organized by type of business. The City will complete the inventory of existing businesses

Year 2

and will maintain the inventory by keeping it current .

Years 3-5

m. Staff will use the inventory to prioritize businesses for education, site visits, and site inspections.

Years 2-5

ID.6 Wastewater Programs

City of Solvang Wastewater Division

The City operates a wastewater treatment plant serving both the City and portions of the unincorporated community of Santa Ynez. The system serves approximately 1,806 connections and collects, treats and disposes of 860,000 gallons of wastewater per day. Wastewater is generated primarily from domestic sources with 258 connections from commercial establishments but does not include storm water collection. The City maintains two lift stations and 39 miles of collection sewers. All of the water is treated and discharged to percolation basins located southeast of the City.

The Plant meets or exceeds all permit requirements. The City conducts routine flushing of the collection system every two years. In addition, preventative maintenance is provided on a regular basis for older portions of the system. Pipeline video inspection is done routinely to further assess the system's condition. Identified trouble spots are then scheduled for repair. At this time, the City has only a few minor industrial discharges and does maintain a set of requirements for pretreatment for these facilities.

The State Water Resources Control Board permits the wastewater treatment plant. Facility operations and water quality programs are summarized below. Activities are discussed in more detail to the extent that they address NPDES Phase II regulations. Programs such as restaurant outreach are discussed in Section 1.0.

Pursuant to their permit, the treatment facility employs procedures designed to discover illicit discharges and illegal connections to the storm sewer system. These include:

- Good housekeeping and preventative maintenance of facility equipment and machinery to capture and prevent spills and discharges.

- Smoke testing of the City sewer system. Smoke testing is used to detect interconnections and leaks (cross connections) between the sewer system and the storm drain system, groundwater, and creeks. The City also performs smoke testing to detect illicit storm drain connections to the sewer, including residential rain gutters and other hard piped connections collecting surface runoff to the sewer. Diverting storm water discharge away from the sewer prevents sewer overflows to storm drains and creeks in wet weather conditions.
- Closed circuit television video of sewer lines is part of their ongoing program to assess the condition of the sewer lines. As part of their maintenance program the City can prioritize problem areas and detect and fix leaks, plugs, root balls, oil and grease buildup, and replace aging sewer lines.
- Development of public education programs. The City's compliance inspector conducts outreach for contractors, plumbers, engineers, other industrial and professional groups and classes for young people to teach them about the hazards of illicit discharges and illegal connections.

Measurable Goals:

a. The City will develop a standard Sanitary Sewer Overflow (SSO) Response Program that will outline and identify the procedures and forms required to respond to a sanitary sewer overflow and prevent contact with surface water as part of the SSMP.

Years 2

b. The City will implement the SSO Response Program.

Years 3-5

c. Staff will respond to septic inspection reports to insure repair or elimination of deficiencies, and develop a report spreadsheet that documents aspects of inspection and reporting, the number of notices to correct, illegal connections and septic to sewer conversions.

Years 2-5

ID.7 Mutt Mitt Program

The "Mutt Mitt" program consists of providing pet waste disposal bags at City parks and open spaces for use by the public. This program is successful in eliminating pet waste pollution. The City will evaluate new Mutt Mitt stations and more visible signage at various parks and trails as needs are identified. One question on the online/direct mail survey will address the program usage and possible improvement. City Park facilities and operations are discussed in Section 6.0.

Measurable Goals:

a. The City will have at least one Mutt Mitt station in each City Park and will evaluate the need for additional stations.

Years 1-5

b. The City provide the required mitts for all the stations during weekly station capacity evaluation. If a station is completely depleted for more than four inspections in a six week period an additional station will be added to the specific area.

Years 2-5

c. The City will update newly designated Mutt Mitt Station locations on park information.

Years 3-5

d. One question in the online/ direct mail survey will pertain to Mutt Mitts.
Years 2-5

3.3 Reporting

The data collected for each BMP will be compiled, reviewed and reported in annual reports. Significant variance from targets will be assessed and discussed in annual reports. Measurable goals will be adjusted as appropriate; the basis for any changes will be included in the next annual report. Feedback received from elected officials and the general public through City Council, Planning Commission, and Recreation and Parks Commission meetings will be documented and used to improve implementation of all six minimum control measures.(see PI.1.a)

**Table 3-3
BMP Implementation: Illicit Discharge Detection & Elimination**

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
ID.1	Pathogens, Sediments, Nutrients (P, N, N03, N02), Hydrocarbons (O&G, lubricants), metals, chlorine	Stormdrain system mapping	a. The City will have a 100% complete stormdrain map. b. This map will be updated and revised annually to include any changes to existing stormdrains or new development.	2-5 3-5	b. Utilize maps to track sources of illicit discharges. Staff will identify areas that require additional focus	Public Works Director
ID.2	Pathogens, Sediments, Nutrients (P, N, N03, N02), Metals, Detergents, Hydrocarbons (O&G, lubricants), Pesticides, Gross pollutants (litter, trash, debris), Toxics (organics, hazardous waste, etc.)	Stormwater Ordinance	a. The City will evaluate the scope of existing ordinances and codes including excavation and grading codes, and the level of success in addressing illicit discharge under existing regulations. The City will use the minimum requirements of the General Permit as criteria for evaluation of the existing codes and ordinances. b. The City will modify its existing ordinances, or develop new ordinances, where necessary. c. The City will adopt and begin implementing and enforcing its revised and/or new ordinances.	1 2 3-5	a. 100% of applicable ordinances will be reviewed and evaluated.	Public Works Director

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
ID.3	Sediment Nutrients (P, N, NO3, NO2) Metals Detergents Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris) Toxics (organics, hazardous waste, etc.)	Education and Outreach	<p>a. Information pertaining to commercial training events held by the County and other local entities will be distributed (as it is available) to interested parties and during site visits.</p> <p>b. Illicit discharge will be addressed in 1 of every 3 storm water outreach articles that appear in the local papers.</p> <p>c. The City will evaluate the economic viability of holding its own commercial training events. As an alternative, the City may partner with the County and other local entities hosting commercial training events</p>	<p>1-5</p> <p>1-5</p> <p>3</p>	<p>a. The numbers of these articles and the number of brochures containing ID information that are printed and delivered to target groups (See Section 1.0) will both be documented</p> <p>b. The number of commercial training events and the number of attendees that visit each event, and the number of brochures distributed at zoning counter and during site visits will be documented</p>	Public Works Director
ID.4	Sediment Nutrients (P, N, NO3, NO2) Metals Detergents Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris) Toxics (organics, hazardous waste, etc.)	Municipal Staff Training	<p>a. The City will train all relevant staff annually - all public works staff in call/complaint receipt procedures; all PW field and vendor staff in detecting illicit discharges and connections; all field and vendor staff in spill and complaint response procedures; all PW field and vendor staff in field investigation and abatement procedures annually.</p> <p>b. 100% City employee (Public Works and Engineering) participation in annual in-house training for illicit discharge awareness and best management practices at work and home</p> <p>c. 100% of City municipal staff responsible for illicit detection and elimination will use the pocket guide developed by the City of Santa Maria to identify illicit discharges and connections in the field.</p> <p>d. The City will have a Professional Engineer or a Certified Stormwater inspector on staff.</p>	<p>1-5</p> <p>1-5</p> <p>1-5</p> <p>1-5</p>	<p>a. Staff attendance will be documented and quiz answers evaluated and questions changed to address points requiring more focus.</p> <p>b. Employee participation documented. Staff will identify areas that require additional focus and adjust programs accordingly</p>	Public Works Director

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
ID.5	Sediment Nutrients (P, N, N03, N02) Metals Detergents Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris) Toxics (organics, hazardous waste, etc.)	ID/ Elimination of Illicit Discharge Sources	<p>a. City Staff will respond to complaints within 24 hours of receiving the complaint, referral or notice.</p> <p>b. Staff will add one question about spill response to the direct mail/online survey that is completed as part of PE.7.</p> <p>c. City staff will identify and prioritize potential sources and potential source areas of illicit discharges (including the 17 authorized non-stormwater discharges described in General Permit Section D.2.c(6)) on the basis of their potential to contribute pollutants to the City's MS4 When the potential illicit discharge source corresponds to a geographical location, City staff will indicate the location on the City problem areas map.</p> <p>d. Staff or designated volunteers will conduct quarterly inspections of priority potential discharge areas and known trouble spots looking for evidence of illegal dumping and illicit discharges During these inspections staff will evaluate, through visual inspection, whether any of the 17 authorized non-stormwater discharges described in General Permit Section D.2.c(6) have the potential to contribute pollutants to the MS4.</p> <p>e. City ordinances will be modified to prohibit any of the allowable non-stormwater discharges that are determined to be a significant source of pollutants.</p> <p>f. Staff or designated volunteers will walk the length of all creeks within the City's boundary annually looking for evidence of illegal dumping and illicit discharges.</p> <p>g. City staff will inspect 25% of City storm drain catch basins/drainage inlets annually for evidence of illicit discharges</p> <p>h. The City will track discharges, maintain records of responses, and implement enforcement provisions currently utilized in the City and or impose BMPs if necessary, to assure compliance.</p>	<p>1 -5</p> <p>3-5</p> <p>3</p> <p>2-5</p> <p>3-5</p> <p>2-5</p> <p>2-5</p> <p>1-5</p>	<p>a. Staff will document number/type of complaint responses</p> <p>b. Identify areas that require additional and adjust programs accordingly.</p> <p>c. document areas and numbers of illicit discharges develop water quality testing procedure if necessary</p> <p>h. A spreadsheet showing the progress of program development will be established</p>	Public Works Director

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
ID.5	Sediment Nutrients (P, N, NO3, NO2) Metals Detergents Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris) Toxics (organics, hazardous waste, etc.)	ID/ Elimination of Illicit Discharge Sources	i. The City will establishing on-going compliance through subsequent inspections	1-5	k. 100 % of EHS inspections and Fire Dept. hazmat inspections /spill responses will be recorded and evaluated	Public Works Director
			j. The City will establish or adopt a numeric criteria threshold for POC classification.	3		
			k. The City will record on a spreadsheet evaluate EHS inspections and Fire Dept. hazmat inspections/spill responses on the basis of content that pertains to stormwater quality.	1-5		
			l. The City will compile a comprehensive inventory of all businesses in the City with the potential to discharge pollutants to the MS4, organized by type of business. The City will complete the inventory of existing businesses;	2		
			and will maintain the inventory by keeping it current	3-5		
m. Staff will use the inventory to prioritize businesses for education, site visits, and site inspections.	2-5					
ID.6	Pathogens, Sediments Nutrients (P, N, NO3, NO2) Hydrocarbons (O&G, lubricants) metals, chlorine	Wastewater Programs	a. The City will develop a standard SSO Response Program which will outline and identify the procedures and forms required to respond to a sanitary sewer overflow and prevent contact with surface water	2	a-c. Staff will identify areas that require additional focus and adjust programs accordingly	Public Works Director
			b. The City will implement the SSO Response Program.	3-5		
			c. Staff will respond to septic inspection reports to insure repair or elimination of deficiencies and illegal connections	2-5		
ID.7	Pathogens, Pesticides Gross pollutants (litter, trash, debris) Toxics	Mutt Mitt Programs	a. The City will have at least one Mutt Mitt station in each City Park and will evaluate the need for additional stations.	1 -5	a. provide 100% of the required mitts for all the stations and document the quantity of mutt mitts for pet waste disposal that are provided.	Public Works Director
			b. The City provide the required mitts for all the stations during weekly station capacity evaluation. If a station is completed depleted for more than four inspections in a six week period an additional station will be added to the specific area.	2-5		
			c. The City will update newly designated Mutt Mitt Station locations on park information.	3-5		
			d. One question in the online/ direct mail survey will pertain to Mutt Mitts	2-5		

4.0 CONSTRUCTION SITE RUNOFF CONTROL

The purpose of construction site runoff controls is to prevent soil and construction waste from entering storm water. Sediment is usually the main pollutant of concern; during a short period of time, construction sites can contribute more sediment to creeks than can be deposited naturally over several decades. The resulting siltation, and the contribution of other pollutants from construction sites can cause physical, biological, and chemical harm to local waterways.

4.1 Minimum Requirements

USEPA guidelines establish the following “Best Management Practices” for Construction Site Runoff Control Minimum Control Measure (General Permit Section D.2.d)

- An ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions, or other effective mechanisms, to ensure compliance;
- Requirements for construction site operators to implement appropriate erosion and sediment control BMPs;
- Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site;
- Procedures for site plan review which incorporate consideration of potential water quality impacts;
- Procedures for receipt and consideration of information submitted by the public; and
- Procedures for site inspection and enforcement of control measures.

The State General Permit for NPDES Phase II requires local jurisdictions to establish construction site controls for sites of one or more acres and for sites of less than one acre if that construction activity is part of a larger common plan of development or sale that would disturb one acre or more. In addition, the State General Permit for Construction Activities requires filing of an NOI (with the RWQCB) and development of a Storm Water Pollution Protection Plan pursuant to RWQCB regulation.

4.1.1 Program Development

The State has direct jurisdiction over construction sites of one acre or more. In addition, under state planning law and the California Environmental Quality Act (CEQA), the City is responsible for evaluating new development and redevelopment projects and, therefore, has a key role in implementing the NPDES Phase II construction runoff control measures. The City will review its Excavation and Grading Code to determine whether it provides the necessary framework for fully implementing construction runoff control measures. The City will consider various other jurisdictions’ regulations in its review. In addition, one potential addition to the Excavation and Grading Code could be reference to BMP manuals. The manuals treating relevant BMPs include:

- Storm Water Quality Task Force (1997 or current). Construction Activity Best Management Practice Guidebook.
- Caltrans (2002 or current). Construction Site Best Management Practices Handbook.
- San Francisco Regional Water Quality Control Board (1999 or current). Erosion and Sediment Control Field Manual.

4.2 Best Management Practices

The City’s Excavation and Grading Code (Title 10 Chapter 5) regulates all new grading, fills, and borrow areas with certain exceptions. Requirements for an erosion and dust control plan are provided in Section 10.5.6.

The City will review its current Excavation and Grading Code and standard practices for compliance with the minimum requirements described above. One element of proposed requirements shall be to require applicants to provide a copy of their SWPPP and NOI for City approval prior to issuance of any grading permit. Any recommended revisions will be considered by the City and reported as part of its implementation of this SWMP. The City will also require all construction projects to collect construction waste and materials on site and dispose of it in a legal and proper manner. Concrete washout stations are also required to prevent contaminants from reaching the soil on any site where concrete shall be poured. All construction sites are also required to provide onsite sanitary facilities to be properly kept in working order and regularly maintained.

The City will implement the Best Management Practices and Measurable Goals described below. Effectiveness Measures and Measurable Goals are outlined in tables immediately following descriptions.

CS.1 - Construction Site Enforcement, Inspections: Section 17.01.210 of the Excavation and Grading Code specifies routine inspections shall occur. Routine inspections and construction oversight shall be conducted so as to conform to the requirements of the General Permit, practices and schedules outlined in the Cal Trans Stormwater Management Protection BMP Field Manual, the City grading ordinance, the site required SWPPP and with accepted stormwater control practices. In addition the City Engineer may require such other inspections of any work to ascertain compliance with the provisions of this Chapter and other laws and regulations as may be required. Non-compliance is subject to construction site activity suspension (stop work notice) and/or fines. The need for additional inspections will be evaluated as part of review of the Excavation and Grading Code. Site inspectors will enforce clean sites and proper and legal disposal of litter and construction waste materials in accordance with this code. Potentially hazardous chemicals and materials will be required to be stored in a proper manner and used appropriately to prevent any contamination.

Measurable Goals:

a. The City will enforce all General Permit and City grading and municipal code requirements at all construction sites.

Years 1-5

b. The City will implement escalating enforcement to obtain compliance, which may including verbal warnings, letters to correct, stop work orders, construction bonds, etc.

Years 1-5

c. City staff will inspect all construction sites in accordance with timelines outlined in the Cal Trans BMP field manual: prior to the rainy season, prior to any forecast storm, after rain events that cause runoff, at 24-hour intervals during extended rain events, and at least monthly.

Years 1-5

CS.2 - Development of Construction Site Inspection and Enforcement Procedures: The City will develop or adopt existing construction site inspection and enforcement procedures (i.e. those already required in a construction site SWPPP) designed to achieve objectives consistent with General Permit requirements. The City will also implement goals and applicable criteria consistent with General Permit requirements as well as measurable goals and effectiveness measures related to inspection timing and frequency, to ensure that inspection procedures and enforcement achieve desired results. The City will implement the procedures; measurable goals and effectiveness assessment measures related to the implementation of current construction site inspection and enforcement procedures; and will evaluate the effectiveness of all new inspection and enforcement procedures and revise them, if necessary. The City will develop an inspection checklist and tracking system to insure all requirements are being met and evaluate the effectiveness of that checklist and tracking system annually.

Measurable Goals:

a. The City will develop and adopt inspection and enforcement procedures.
Year 1

b. The City will develop an inspection checklist for use by City inspectors to ensure comprehensive inspections.
Year 1

c. The City will develop a tracking system to track site inspections, BMP performance, site compliance with General Permit and City requirements, and enforcement actions.
Year 1

d. The City will implement the inspection and enforcement procedures, inspection checklist, and site tracking system adopted in Year 1 at all construction sites.
Year 2-5

e. The City will implement its current inspection and enforcement procedures, inspection checklist, and site tracking system while they are under review.
Year 1

CS.3 Development of Procedures for Review of grading/ erosion control/ construction site plans: The City will review grading/erosion control plans, construction site plans and site SWPPPs and will develop authority for plan review that will achieve compliance with the General Permit. The City will review and approve grading/erosion control plans, construction site plans, and SWPPPs prior to approving construction permit applications utilizing criteria that will achieve compliance with the General Permit and are contained in the Caltrans Stormwater Quality Construction Site BMP Manual.

Measurable Goals

a. Review existing construction site plan and grading/erosion control (SWPPPs) plan procedures for effectiveness in achieving compliance with the General Permit and City requirements for construction sites.
Year 3

b. City Staff will submit the draft procedures to Water Board Staff to review for compliance with the conditions of the General Permit.
Year 3

c. The City will adopt the new criteria for the review of grading/ erosion control (SWPPPs) construction site plans that will achieve compliance with the General Permit and Water Board expectations.
Year 4

d. The City will implement the new procedures.
Years 4-5

e. The City will implement its current construction site plan and grading/erosion control (SWPPPs) plan review procedures until new procedures are adopted.
Years 1-4

CS.4 - Discretionary Projects –Conditions of Approval: In addition to the regulations under the Excavation and Grading Code, the City will apply conditions of approval relating to construction site controls to new discretionary projects that will achieve compliance with the General Permit and Water Board expectations on a project by project basis. These BMPs will be constructed and maintained so as to comply with the requirements of the General Permit and City Standards adopted under this SWMP, practices and schedules outlined in the Cal Trans Stormwater Management Protection BMP Field Manual, the City grading ordinance and in accordance with accepted stormwater control practices.

Currently the City conducts plan review in accordance with statewide accepted practices and requirements. The RQWCB has required the City to develop, implement and enforce procedures for construction site plan review which incorporate consideration of potential water quality impacts. The new plan review process (if any) and resulting established authority will achieve consistency with all existing State and General Permit requirements and Water Board Expectations. The City will evaluate the effectiveness of the new plan review process and to revise it, if necessary.

Measurable Goals:

a. The City will modify existing or develop new conditions of approval that will achieve compliance with the General Permit. They will include:

- A requirement that all projects disturbing an acre or more of ground, or which are part of a larger development or sale disturbing an acre or more of ground, implement BMPs to control erosion and sediment, and pollutants from construction materials and construction-related wastes;
- A requirement that all projects disturbing an acre or more of ground, or which are part of a larger development or sale disturbing an acre or more of ground, have a construction site plan indicating the location of erosion and sediment control BMPs, as well as BMPs to control pollutants from construction materials and construction-related wastes, approved by the City prior to the beginning of grading;
- A requirement that all projects disturbing more than 50 cubic yards of soil will implement BMPs;
- A requirement that all projects disturbing 50 cubic yards of soil or more submit a grading/erosion control plan for approval by the City prior to the beginning of grading;
- A requirement that sites regulated by the State Construction Stormwater General Permit show proof of having submitted a NOI to the State Water Board prior to grading permit approval;
- A requirement that sites regulated by the State Construction Stormwater General Permit submit a SWPPP;

Year 3

b. City Staff will submit the draft conditions of approval to Water Board Staff to review for compliance with the conditions of the General Permit.

Year 3

c. The City will adopt the new conditions of approval.

Year 4

d. The City will implement the new conditions of approval.

Years 4-5

e. The City will implement existing conditions of approval until it adopts new conditions of approval.
Years 1-4

CS.5 - Staff Training: Construction plan checking staff will receive annual training based on current accepted practices and statewide standards (i.e. the Cal Trans SWMPP preparer course). Construction inspection staff will be responsible for understanding and enforcing erosion and sediment control requirement of the Excavation and Grading Code or Storm Water Pollution Prevention Plans, as outlined in the Cal Trans Stormwater Management Protection BMP Field Manual, the City grading ordinance and in accordance with accepted stormwater control practices, as appropriate. These requirements will achieve consistency with all existing State and General Permit requirements and Water Board Expectations. Inspection staff will receive annual training in currently applicable regulations and compliance standards and techniques. One staff member is currently certified by a recognized 24 hour Cal-Trans approved SWPPP preparation and inspector training.

Measurable Goals:

- a. The City will provide annual training of 100% of grading, construction site inspectors and planning staff responsible for plan checks.
Years 2-5
- b. The City will administer an annual post training quiz
Years 3-5
- c. One staff member will be a Cal Trans certified inspector or Professional Engineer.
Years 1-5.

CS.6 - Construction Workshops: The construction community will be responsible for developing and implementing erosion and sediment control plans or Storm Water Pollution Prevention Plans, as appropriate. The City will partner with the County and surrounding communities in providing free or low cost workshops to explain regulations and demonstration appropriate BMPs. In addition, annual presentations of the NPDES Permit (see PI.1) will provide a forum for public comment on City construction site BMPs. All comments received by the storm water compliance officer will be documented annually on an Excel spreadsheet and analyzed and procedures adjusted to provide maximum effectiveness. Public information distributed and outlined in sections 1.0 and 2.0 of this document will be used to educate the public on how to recognize and report potential permit violations on construction sites.

Measurable Goals:

- a. At least one annual workshop will be held in conjunction with other local agencies. The workshops will be advertised at least one month prior to the date held in local newspapers and through interoffice communication.
Year 2-5
- b. Public forums will take place at the annual presentations of the NPDES Permit (see PI.1) The Public will be provided with information on how to recognize and report potential permit violations. All comments received will be documented annually on an Excel spreadsheet and analyzed and procedures adjusted to provide maximum effectiveness.
Years 2-5

CS.7 – Construction Site Stormwater Control Ordinance: The City will review its current Excavation and Grading Code and other standards regulating construction sites for compliance with the General

Permit, and will modify them as necessary. The result of this process will be regulatory measures which incorporate the following elements:

- A requirement that construction site operators control erosion and sediment at all sites disturbing an acre or more, or which are part of a larger plan of development or sale disturbing an acre or more;
- A requirement that construction site operators implement appropriate erosion and sediment control BMPs to reduce erosion and sedimentation to the MEP;
- A requirement that construction site operators control construction materials and waste, such as discarded building materials, concrete truck washout, chemicals, litter, vehicle fluids, and sanitary waste to the MEP;
- A requirement that construction site operators comply with the requirements of the State Construction Stormwater General Permit, including that they must show proof of having submitted a NOI to the State Water Resources Control Board, prior to grading permit approval;
- A requirement that operators of construction sites regulated by the State Construction General Stormwater Permit submit a SWPPP;
- A requirement that all construction site operators submit a construction site plan indicating the location of erosion and sediment control BMPs, as well as BMPs to control pollutants from construction materials and construction-related wastes, for approval by the City prior to the beginning of grading;
- A requirement that operators of construction sites disturbing 50 cubic yards of soil or more submit a grading/erosion control plan for approval by the City prior to the beginning of grading;
- Authority to enter and inspect construction sites for compliance with the General Permit and City requirements, to require BMPs, to require monitoring, to set fines and penalties for non-compliance, to require remediation or restoration, and to enter and abate (if necessary), including the authority to recover costs of abatement;
- A strategy of escalating enforcement, including, but not limited to, verbal warnings, letters of violation, stop-work notices, and fines.

Measurable Goals

a. Review current codes, ordinances, and standards for compliance with the General Permit, and modify them as necessary.

Years 1-2

b. Submit a draft of the modified codes, ordinances, and/or standards for Water Board staff review.

Year 2

c. Adopt modified (or new) codes, ordinances, and/or standards which will achieve compliance with the General Permit.

Year 3

d. Implement and enforce modified and/or new codes, ordinances, and standards.

Years 4-5

e. Implement and enforce current codes, ordinances, and standards while they are being reviewed and modified.

Years 1-4

CS.8 – Procedures for Receipt and Consideration of Information from the Public: The General Permit requires the City to develop and maintain some means by which members of the public can submit

information and/or complaints regarding BMP performance at construction sites. The City will make available a public hotline (BMP PI.4) people can use for this purpose. In addition, the City will receive comments at public meetings where the stormwater program is under discussion (BMP PI.1).

Measurable Goals

a. The City will maintain a public hotline (see description and measurable goals for BMPs PE.6 and PI.4).

Years 1-5

b. The City will conduct public forums at the annual presentations of the NPDES Permit (see PI.1). The Public will be provided with information on how to recognize and report potential permit violations. All comments received will be documented annually on an Excel spreadsheet and analyzed and procedures adjusted to provide maximum effectiveness.

Years 1-5

4.3 Reporting

Feedback from City and County inspectors, Cal-Trans and RWQCB staff, construction contractors, project owners and the public will be evaluated and potential changes to the Grading Ordinance, its implementation and tracking will be evaluated. The extent these changes could change the level of protection to storm water quality will be discussed in the annual report.

**Table 4-1
BMP Implementation: Construction Site Runoff Control**

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
CS.1	Sediment Hydrocarbons (O&G, lubricants) Metals Gross Pollutants (trash, debris)	Constructi on Site Enforcement and Inspections	a. The City will enforce all General Permit and City grading and municipal code requirements at all construction sites.	1-5	a. Document and evaluate enforcement actions for 100% of sites where projects BMPs failed and provide in annual report	Public Works Director
			b. The City will implement escalating enforcement to obtain compliance, which may including verbal warnings, letters to correct, stop work orders, construction bonds, etc.	1-5	b. Document and evaluate 100% project site inspections.	
			c. City staff will inspect all construction sites in accordance with timelines outlined in the Cal Trans BMP field manual: prior to the rainy season, prior to any forecast storm, after rain events that cause runoff, at 24-hour intervals during extended rain events, and at least monthly	1-5	a-c. Staff will identify areas that require additional focus and adjust programs accordingly.	

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
CS.2	Sediment Hydrocarbons (O&G, lubricants) Metals Gross Pollutants (trash, debris)	Development of Construction Site Inspection and Enforcement Procedures	<p>a. The City will develop and adopt inspection and enforcement procedures.</p> <p>b. The City will develop an inspection checklist for use by City inspectors to ensure comprehensive inspections.</p> <p>c. The City will develop a tracking system to track site inspections, BMP performance, site compliance with General Permit and City requirements, and enforcement actions.</p> <p>d. The City will implement the inspection and enforcement procedures, inspection checklist, and site tracking system adopted in Year 1 at all construction sites.</p> <p>e. The City will implement its current inspection and enforcement procedures, inspection checklist, and site tracking system while they are under review.</p>	<p>1</p> <p>1</p> <p>1</p> <p>2-5</p> <p>1</p> <p>3-5</p>	<p>b. The City will document and evaluate 100% project site inspections and enforcement actions and provide the information in the annual report. Documentation will include but is not limited to an inspection checklist modeled on the existing statewide SWPPP checklist and city-wide project tracking system to be developed in Year 1.</p> <p>a-e. Staff will identify areas that require additional focus and adjust programs accordingly.</p>	Public Works Director
CS.3	Sediment Hydrocarbons (O&G, lubricants) Gross Pollutants (trash, debris)	Development of Procedures for Review of Grading/ Erosion Control/ Construction Site Plans	<p>a. Review existing construction site plan and grading/erosion control (SWPPPs) plan procedures for effectiveness in achieving compliance with the General Permit and City requirements for construction sites.</p> <p>b. City Staff will submit the draft procedures to Water Board Staff to review for compliance with the</p> <p>c. The City will adopt the new criteria for the review of grading/ erosion control/ construction site plans that will achieve compliance with the General Permit and Water Board expectations.</p> <p>d. The City will implement the new procedures.</p> <p>e. The City will implement its current construction site plan and grading/erosion control plan review procedures until new procedures are adopted.</p>	<p>3</p> <p>3</p> <p>4</p> <p>4-5</p> <p>1-4</p>	<p>a-e. Staff will identify areas that require additional focus and adjust programs accordingly</p> <p>c-e. Document that these requirements are enforced on 100% of applicable projects.</p>	Public Works Director

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
CS.5	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Metals Gross Pollutants (trash, debris) Detergents Toxics (organics, hazardous waste, etc.)	Staff Training	a. The City will provide annual training of 100% of grading, construction site inspectors and planning staff responsible for plan checks.	2-5	a-c Staff will identify areas that require additional focus and adjust programs accordingly.	Public Works Director
			b. The City will administer an annual post training quiz	3-5		
			c. One staff member will be a Cal Trans certified inspector/ PE.	1-5		
CS.6	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Metals Gross Pollutants (trash, debris) Detergents Toxics (organics, hazardous waste, etc.)	Construction Workshops	a. At least one annual workshop will be held in conjunction with other local agencies. The workshops will be advertised at least one month prior to date in a local newspaper and through interoffice communication.	2-5	a. Number of attendees and any comments made documented.	Public Works Director
			b. Public forums will take place at the annual presentations of the NPDES Permit (see PI.1) The Public will be provided with information on how to recognize and report potential permit violations. All comments received will be documented annually on an Excel spreadsheet and analyzed and procedures adjusted to provide maximum effectiveness.	2-5	b. Number of attendees and any comments made documented.	
				2-5	a-b. Staff will identify areas that require additional and adjust programs accordingly	
CS.7	Sediment Hydrocarbons (O&G, lubricants) Gross Pollutants (trash, debris)	Construction Site Stormwater Control Ordinance	a. Review current codes, ordinances, and standards for compliance with the General Permit, and modify them as necessary.	1-2		Public Works Director
			b. Submit a draft of the modified codes, ordinances, and/or standards for Water Board staff review.	2		
			c. Adopt modified (or new) codes, ordinances, and/or standards which will achieve compliance with the General Permit.	3		
			d. Implement and enforce modified and/or new codes, ordinances, and standards.	4-5		
			e. Implement and enforce current codes, ordinances, and standards while they are being reviewed and modified.	1-4		

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
CS.8	Sediment Hydrocarbons (O&G, lubricants) Gross Pollutants (trash, debris)	Procedures for Receipt and Consideration of Information from the Public	a. The City will maintain a public hotline (see description and measurable goals for BMPs PE.6 and PI.4). b. The City will conduct public forums at the annual presentations of the NPDES Permit (see PI.1). The Public will be provided with information on how to recognize and report potential permit violations. All comments received will be documented annually on an Excel spreadsheet and analyzed and procedures adjusted to provide maximum effectiveness.	1-5 1-5		Public Works Director

5.0 POST-CONSTRUCTION RUNOFF CONTROL

One opportunity to reduce the generation of non-point source pollution from urban runoff is through planning and design, before developments are built. Once built, it is complex and expensive to correct problems. This minimum control measure focuses on site planning and design considerations, which are most effective when addressed in the early stages of project development. Effective long-term management and maintenance are critical, so the best design opportunities are those with the least maintenance needs. The goal of the program is to integrate basic and practical storm water management techniques into new development to protect water quality.

5.1 Minimum Requirements

USEPA regulations for post-construction runoff control require that the City must, at a minimum (*USEPA Fact Sheet 2.7 – Post-Construction Runoff Control, 01/00*):

- Develop, implement, and enforce a program to address storm water runoff from new development and redevelopment projects that disturb greater than or equal to one acre, and projects smaller than one acre that are part of a larger common plan of development or sale.
- Develop and implement strategies that include a combination of structural and/or non-structural best management practices (BMPs)
- Use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment to the extent allowable under local law
- Ensure adequate long-term operation and maintenance of BMPs

Furthermore, City must also apply the design standards described in General Section Attachment 4 to all project categories listed in Attachment 4 Section B. When the General Permit was adopted in 2003, these design standards were intended for municipalities with populations exceeding 50,000 or which were subject to rapid growth. Since that time, the MEP standard has advanced to the point that all regulated municipalities in the Central Coast Region must implement the Attachment 4 design standards where these standards do not conflict with Water Board-approved hydromodification control criteria. The City will incorporate the design standards into its General Plan, City Code, and standard conditions of approval and mitigation measures.

5.1.1 Background

Under state planning law and the California Environmental Quality Act (CEQA), the City is responsible for evaluating new development and redevelopment projects; therefore the City has a key role in implementing the NPDES Phase II post-construction runoff control measures. The City's existing land use policies and development review process provide a general framework for water quality protection and compliance. These include:

- County statutes to protect riparian areas that include but are not limited to a required 100' setback from any waterbody.
- City of Solvang General Plan
- CEQA initial study checklist
- Standard conditions of approval and mitigation measures for discretionary projects.
- Engineering Permit Conditions
- Solvang Municipal Code

New projects are also reviewed on behalf of the City by a consultant team of engineers and policy reviewers. The team supports City staff and conducts the bulk of new development review and evaluation. In response to the February 2008 letter from CCRWQCB the City has already begun to establish a baseline for future hydromodification requirements in the form of the City of Solvang Storm drain maps (See Appendix C). From this baseline and by summarizing information gained from relevant technical sources the City intends to characterize the watershed and future development patterns.

The City will adopt, implement and apply revised water quality protection policies related to hydromodification control criteria to new development and redevelopment projects. The City has elected to take part in the Regional Joint Effort outlined by the RWQCB in the letter dated October 20, 2009. Municipality-specific criteria for controlling hydromodification in new and redevelopment projects will be derived using the Water Board-approved methodology developed through the Joint Effort. The City will also select applicability thresholds, consistent with long-term watershed protection, that identify which new and redevelopment projects must apply the hydromodification control criteria.

The City will then Adopt/Develop Guidance for Hydromodification Control Selection, Design, Monitoring, Maintenance, and Inspection requirements and guidance to assist developers in the selection, design, and maintenance of hydromodification control measures.

City staff will develop final report describing the adopted assessment methodology, numeric criteria, and areas of applicability by the end of Q8 (see below).

The implementation schedule for BMPs and measurable goals related to the Joint Effort refers to the eight 3-month quarters (e.g., Q2, Q4, etc.) of the two-year Joint Effort, and the first quarter of the following year (Q9). For purposes of implementing and tracking Joint Effort BMPs, Quarter 1 (Q1) will begin upon notification from the Central Coast Water Board. Water Board staff will notify the City of Solvang by electronic mail of the date that will serve as the start date for Quarter 1.

5.2 Best Management Practices

The City is committed to apply and enforce existing policies, codes, plans, and ordinances to manage post-construction stormwater runoff. It will evaluate its existing development policies, codes, plans, and ordinances on the basis of their compliance with General Permit conditions and effectiveness at achieving the desired watershed conditions; and will subsequently adopt, apply, and enforce revised policies, codes, plans, and ordinances to manage post-construction stormwater runoff to the MEP by the end of Q8.

Use of these policies will require structural and non-structural BMPs, consistent with General Permit, Water Board, and City requirements, and use practical structural means of controlling post-construction runoff such as wet ponds and dry basins, grassy swales, bio-swales, and filter strips. Other structural design standards that will be desired are infiltration basins/trenches, dry wells, and porous pavement to percolate runoff through the soil to the groundwater. Non-structural BMPs include general protection of surface water quality which occurs during evaluation of potential impacts in CEQA review and/or in establishing conditions for project approval.

The City will implement the Best Management Practices and Measurable Goals described below. Effectiveness Measures and Measurable Goals are outlined in tables immediately following the descriptions.

PC.1 - Review Regulations

Water Quality Protection Policies:

The City currently reviews all projects to conform to with statewide standards and practices outlined in the required construction site SWPPP. The City will review existing water quality protection policies, such as the General Plan and Municipal Code, and revise them, where necessary, to comply with the General Permit and the City's Water Board-approved hydromodification control criteria. The City will apply these post-construction stormwater controls to all new development and redevelopment projects of one acre or more and projects of less than one area that are part of a larger project in area in the City. These policies will provide City staff and the development community with a framework to identify appropriate water quality protection measures for proposed projects, including the development of reasonable and feasible best management practices. These policies will direct growth away from sensitive areas, encourage environmentally sensitive site design, protect wetland and riparian resources, and minimize degradation of water quality.

CEQA Initial Study Checklist:

The CEQA Initial Study Checklist provides a preliminary analysis of the potentially significant environmental impacts of a proposed project to identify appropriate measures to mitigate the impact, and ultimately, to determine whether a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report is required. The City's initial study checklist is the current recommended checklist contained in the State CEQA Guidelines (see http://ceres.ca.gov/topic/env_law/ceqa/guidelines/Appendix_G.html). Presently, the City checklist includes direct reference to water quality impacts resulting from project-related discharges. The City will modify the CEQA checklist to incorporate the City's hydromodification control criteria and long-term watershed protection policies and measures as they are adopted.

Development Policies, Codes, Ordinances, Standard Conditions of Approval/Mitigation Measures, and Engineering Permit Conditions:

The City is committed to applying and enforcing current conditions of approval/mitigation measures to projects on a case-by-case basis. The current standards conform to those outlined in the State-required construction site SWPPP.

The city will evaluate its existing development policies, codes, plans, ordinances, current conditions of approval/mitigation measures, and engineering permit conditions based on their effectiveness at achieving the desired watershed conditions and their compliance with General Permit conditions and the City's Water Board-approved hydromodification control criteria; and will modify them as necessary. The Conditions/Measures are developed in conjunction with other City and County departments (e.g., County Fire); therefore these parties would be consulted prior to revising the Standard Conditions of Approval and Mitigation Measures. Modified policies, codes, plans, ordinances, conditions of approval, and engineering permit conditions will address both construction site pollution control and post-construction runoff control for new development and redevelopment.

Conceptual Review:

Conceptual review meetings are used for moderately complex or complex projects where there is the potential for significant environmental or policy concerns. During the meeting staff advises the applicant and can suggest changes in the project to avoid policy or environmental conflicts before the plans are submitted. The City will modify its conceptual review process, as necessary, to incorporate all City development policies, regulations, and standards as they are adopted.

Enforcement Authority

The City is committed to develop, adopt, and implement the necessary authorities to enforce compliance post-construction stormwater control policies and regulations.

Measurable Goals:

a. The City will analyze its conceptual review process and all of its enforceable mechanisms related to new and redevelopment to identify modifications and/or additions necessary to effectively implement the following:

- LID principles and features;
- Water Board-approved hydromodification control criteria and applicability criteria; and
- General Permit Attachment 4 design standards.

Q2

b. The City will adopt modifications to these enforceable mechanisms, or adopt new mechanisms, to i) effectively resolve regulatory conflicts; ii) achieve the desired watershed conditions; and iii) implement hydromodification controls, LID principles and features, and Attachment 4 design standards for all new and redevelopment projects.

Q8

c. The City will apply and enforce new and/or revised enforceable mechanisms to all applicable new and redevelopment projects which disturb 50 cubic yards or more of soil, or an acre or more of ground, or which are part of a larger plan of development or sale disturbing an acre or more of ground.

Q9, and all subsequent years

d. While the City is analyzing and modifying its enforceable mechanisms, the City will enforce and apply all existing development policies and regulations to all projects in the City which disturb 50 cubic yards or more of soil, or an acre or more of ground, or which are part of a larger plan of development or sale disturbing an acre or more of ground.

Years 1-2

PC.2 Staff Training: The City will train all relevant staff and supporting consultants will be trained to effectively implement the City's post-construction stormwater control policies and regulations. Training can be used to initiate new staff, and to provide updates on innovative site design for existing staff.

The city will provide annual training for all staff and consultants who review project plans for new development and redevelopment (currently this is limited to the city engineer, and storm water compliance officer, planning director and assistant planner). The training will cover all topics necessary for the plan review process to achieve compliance with City post-construction stormwater management requirements for all new development and re-development projects. This training will include skills necessary to recognize potential storm water impacts during design review and to condition projects appropriately, evaluate the adequacy of proposed post-construction stormwater measures, and identify structural and non-structural

BMPs required to comply with General Permit and City post-construction stormwater management requirements.

The City will provide annual training for all inspectors (currently limited to two project engineers). Training will cover all topics necessary for City inspection of new development and redevelopment projects to achieve compliance with the City's evolving post-construction stormwater management and hydromodification requirements.

Each year, as part of the annual training, City staff will evaluate the effectiveness of the ongoing training by conducting group review of 50% of the projects reviewed and/or inspected during the previous year for compliance with General Permit and City requirements.

Measurable Goals:

a. The City will develop and maintain a fact sheet on all BMPs currently adopted and in use by the City, and distribute the fact sheet to all relevant personnel.

Years 1-5

b. The City will train provide training for plan reviewers and inspectors necessary for implementing interim LID requirements (BMP PC.6).

Q2

c. The City will prepare materials for training inspectors and plan review staff in the proper implementation of General Permit and City requirements for LID, hydromodification control, and General Permit Attachment 4 design standards, and will conduct annual training for all relevant staff based on the training materials, prior to the end of Q8.

Q8, and all subsequent years

d. During annual training, City staff will conduct group review of 50% of the new and redevelopment project plan reviews, inspections, and BMP maintenance report reviews conducted in the previous year to evaluate staff performance and training effectiveness.

Years 2-5

e. Staff will administer an annual post-training quiz, and will review the results to determine the effectiveness of the training and to identify areas for improvement.

Years 3-5

PC.3 Plan Review: The City will review project plans for all new and redevelopment projects for compliance with General Permit and City post-construction stormwater management requirements. The City will also develop procedures for reviewing such plans, including a checklist City plan review staff will use to ensure that project plans receive comprehensive and effective review. Since the City will be developing and adopting its requirements over several years, it will need to modify its plan review procedures and checklist to keep them consistent with the City's current requirements.

Measurable Goals

a. The City will evaluate its existing plan review procedures for their effectiveness in ensuring compliance with the interim LID requirements the City will apply to projects reviewed prior to adoption of long-term LID and hydromodification control criteria (BMP PC.6 and BMP PC.7), and will modify the procedures as necessary.

Q2

b. The City will develop a plan review checklist consistent with the interim LID requirements that the City will apply to projects reviewed prior to adoption of long-term LID and hydromodification control criteria.

Q2

c. The City will implement its plan review procedures and checklist to review all new and redevelopment projects for compliance with General Permit and City post-construction stormwater management requirements, particularly the City's interim LID requirements.

Q2– Q8

d. The City will modify its plan review procedures and checklist to incorporate long-term post-construction stormwater management requirements related to LID, hydromodification control, and the General Permit Attachment 4 design standards.

Q8

e. The City will implement its modified plan review procedures and checklist to review all new and redevelopment projects for compliance with General Permit and City post-construction stormwater management requirements, particularly the City's long-term requirements related to LID, hydromodification control, and the General Permit Attachment 4 design standards.

Q9 through Year 5

PC.4 Inspection of Post-Construction Stormwater BMPs: The City will inspect all post-construction stormwater management BMPs for proper performance prior to project completion. The City will also develop and use an inspection checklist to ensure that all BMPs receive comprehensive inspection, and a tracking system to monitor post-construction stormwater BMPs from plan review through long-term maintenance.

Measurable Goals

a. The City will evaluate its existing inspection procedures for their effectiveness in ensuring compliance with the City's post-construction stormwater management requirements, particularly the interim LID requirements the City will apply to projects reviewed prior to adoption of long-term LID and hydromodification control criteria (BMP PC.6 and BMP PC.7), and will modify the procedures as necessary.

Q2

b. The City will develop an inspection checklist consistent with the City's post-construction stormwater management requirements, particularly the interim LID requirements that the City will apply to projects reviewed prior to adoption of long-term LID and hydromodification control criteria.

Q2

c. The City will develop a system to track post-construction stormwater management BMPs from plan review through long-term maintenance.

Q2

d. The City will inspect all post-construction stormwater management BMPs for proper performance prior to project completion. Proper performance will be a condition of final project approval.

Q2– Q8

e. The City will modify its inspection procedures, inspection checklist, and tracking system to incorporate long-term post-construction stormwater management requirements related to LID, hydromodification control, and the General Permit Attachment 4 design standards.

Q8

f. The City will implement its modified inspection procedures, inspection checklist, and tracking system for all new and redevelopment projects.

Q9 through Year 5)

PC.5 Long-Term Maintenance of Post-Construction Stormwater BMPs: The City will develop and enforce a maintenance agreement to ensure proper maintenance and performance of all post-construction stormwater management BMPs operating in the City (see BMP PC.1). The agreement will include authority to take over maintenance of BMPs, if necessary, to ensure their proper performance, and to collect compensation for that maintenance.

Measurable Goals

a. The City will develop and adopt a long-term maintenance agreement for post-construction stormwater BMPs. The agreement will clarify the responsibility for long-term BMP maintenance, establish BMP maintenance and performance standards, establish inspection expectations, identify reporting requirements, and establish necessary authority to enforce the agreement, including the authority for the City to take over maintenance of BMPs and to collect compensation for that maintenance.

Q2

b. The City will implement and enforce the long-term maintenance agreement.

Q3 through Year 5

c. The City will track performance and inspection information for all post-construction stormwater management BMPs in operation in the City.

Q3 through Year 5

PC.6 Master Drainage Plan: The City is in the process of developing a Master Drainage Plan. The plan will identify flow directions and quantity of flow for specific areas in the City and as such will provide an additional tool for evaluating appropriate requirements and/or incorporating new development strategies to protect water quality and will be evaluated as such. The City will complete the Plan by the end of the seventh permit year.

Measurable Goals:

a. The Master Drainage Plan will be 80% complete by the end of year 5.

Year 5

PC.7 Long Term Watershed Protection and Plan: The City commits to integrating and incorporating stormwater management control measures that support healthy watersheds into all aspects of land use planning and development.

The City's development of long-term watershed protection measures will address protection for riparian and wetland areas and aquatic habitats, stream setback criteria, effective impervious area thresholds, and Basin Plan Water Quality Objectives. The City will adopt a minimum setback of 30 feet from the top-of-bank of any waterbody any indentified riparian area (includes, at a minimum, all rivers, creeks, intermittent creeks, lakes, and wetlands.).

The City is committed to achieving through its long-term watershed protection measures, the desired watershed conditions as specified by the Regional Water Board and listed below:

- Rainfall surface runoff at pre-development levels
- Watershed storage of runoff at pre-development levels;
- Watercourse geomorphic regimes within natural ranges;
- Optimal riparian and aquatic habitats; and Pollutant reduction to the MEP.

The City will use the above conditions to evaluate its water quality protection policies, the CEQA checklist, and standard conditions of approval/mitigation measures and engineering permit conditions throughout the life of the permit.

Measurable Goals:

a. The City will establish long-term watershed protection as a City objective.
Year 1.

b. The city will develop and adopt a plan for long-term watershed protection. The plan will include specific numeric measurable goals, effectiveness measures, and an implementation schedule to accomplish the following tasks:

- Characterize the City's watersheds and sub-watersheds, including an analysis of current water quality conditions, stream health, land use and development patterns, and pollution/degradation trends;
- Evaluate existing watershed protection efforts, including land use policies, plans, ordinances, guidance manuals, development project review procedures, and BMPs;
- Establish a minimum setback of 30 feet from the top-of-bank of any waterbody for any development, construction, or grading;
- Integrate stormwater management measures and water quality objectives into all aspects of land use planning and development;
- Develop a strategy to achieve desired watershed conditions making use of land use policies, plans, ordinances, guidance manuals, development project review procedures, and BMPs;
- Develop quantifiable measures that indicate how the City's watershed protection efforts achieve desired watershed conditions; and
- Adopt and apply long range hydromodification criteria
- Adapt or change the efforts, if warranted.

Year 5

PC.8 Use of Low Impact Development in Project Design: The Water Board has determined that municipalities must optimize the use of (Low Impact Development) LID in new development and redevelopment projects. To this end the City will develop and adopt a strategy for implementing LID that will optimize the application of LID principles and features for new and redevelopment projects. The strategy will include application of LID principles and features to new and redevelopment projects during the two-year period preceding adoption of hydromodification control criteria (BMP PC.7).

To ensure optimization of LID during this transitional period when the City will not yet have fully-developed LID criteria, the City will evaluate available LID manuals, including guidance materials recommended by the Central Coast LID Center, for use in the City in the short term. The City will also develop and use a tracking

system to record education and outreach efforts, and the LID principles and features incorporated into each new and development project.

Measurable Goals:

a. The City will apply LID principles and features to all applicable new and redevelopment projects.

Q2– Q8

b. The City will track its accomplishments implementing LID during the transitional period, and will develop a tracking report indicating LID design principles and features incorporated into each applicable new and redevelopment project. The City will submit the tracking report in its annual reports.

Q2-Q8

c. The City will develop and adopt LID criteria for all new and redevelopment projects that optimize the application of LID principles and features, including specific criteria for the selection and performance of LID BMPs.

Q8

d. The City will apply and enforce its long-term LID criteria for all new and redevelopment projects.

Q9 through year 5

PC.9 Adoption of Hydromodification Control Criteria: The City will develop and enact a strategy for implementing hydromodification control for new and redevelopment projects as outlined in Section 5.1.1. The City has elected to take part in the Regional Joint Effort outlined by the RWQCB in the letter dated October 20, 2009. The City will derive locally-relevant criteria for controlling hydromodification in new and redevelopment projects using the Water Board-approved methodology developed through the Joint Effort.

Measurable Goals:

a. The City will derive and adopt City-specific criteria for controlling hydromodification in new and redevelopment projects, using Water Board-approved methodology developed through the Joint Effort.

Q8

b. The City will identify and adopt applicability thresholds for applying hydromodification control criteria for new and redevelopment projects. The applicability thresholds will be consistent with long-term watershed protection.

Q8

c. The City will apply and enforce its hydromodification control criteria and applicability criteria for all new development and redevelopment projects.

Q9 through year 5

PC.10 Education and Outreach: The City will develop and enact a strategy to provide appropriate education and outreach to all applicable target audiences regarding the City’s post-construction stormwater management requirements.

a. The City will develop a plan for education and outreach, including measurable goals, schedules, and target audiences, the City will conduct in support of the following strategic objectives: enforceable mechanisms, hydromodification control criteria, applicability thresholds, LID BMP design, and compliance with LID and hydromodification control criteria. The plan will include distributing guidance materials to all zoning applicants.

Q2

b. The City will implement the education and outreach plan.
Q3 through Year 5

c. The City will track its accomplishments implementing the education and outreach plan supporting the implementation of hydromodification controls and LID, and will submit the tracking report in its first annual report and by October 30, 2011.
Q3-Q8

d. The City will develop (or modify), advertise, and make available LID BMP design guidance materials that optimize the application of LID principles and features, suitable to all stakeholders (including City planning and plan review staff and the development community) for use in the City while the City is developing LID and hydromodification control criteria.
Q4

e. The City will develop specific guidance on how to achieve and demonstrate compliance with the long-term hydromodification control and LID requirements.
Q8

f. The City will advertise the guidance on how to achieve and demonstrate compliance with the long-term hydromodification control and LID requirements, and will make it available to new and redevelopment project applicants. The City will also distribute the guidance to all zoning applicants.
Q9 through year 5

5.3 Reporting

The City of Solvang will achieve Joint Effort measurable goals by the end of Q2, Q4, Q8, and Q9. The City of Solvang will report to the Water Board on completion of measurable goals within 30 days of the end of the quarter in which the measurable goal is scheduled for completion. Reporting will include evidence of adequate detail and substance for the Water Board to determine whether the measurable goals are complete.

Data collected for each measurable goal will be compiled, reviewed, and summarized in annual reports. Significant variance from targets will be assessed and discussed in annual reports to RWQCB. Feedback from City staff, permittees, developers, elected officials and the general public through City Council, Planning Commission, and Recreation and Parks Commission meetings will be documented and used to improve implementation of all six minimum control measures.(see PI.1.a) and to modify BMPs or the measurable goals, as appropriate; the basis for any changes will be included in the subsequent annual report.

**Table 5-1
BMP Implementation: Post Construction Runoff Control**

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PC.1	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) pesticides	Review Regulations	a. The City will analyze its conceptual review process and all of its enforceable mechanisms related to new and redevelopment to identify modifications and/or additions necessary to effectively implement the following: <ul style="list-style-type: none"> • LID principles and features; • Water Board-approved hydro-modification control criteria and applicability criteria; and • General Permit Attachment 4 design standards. 	Q2	a. 100% of all applicable codes (see attachment D) will be reviewed.	Public Works Director
			b. The City will adopt modifications to these enforceable mechanisms, or adopt new mechanisms, to i) effectively resolve regulatory conflicts; ii) achieve the desired watershed conditions; and iii) implement hydromodification controls, LID principles and features, and Attachment 4 design standards for all new and redevelopment projects.	Q8		
			c. The City will apply and enforce new and/or revised enforceable mechanisms to all applicable new and redevelopment projects which disturb 50 cubic yards or more of soil, or an acre or more of ground, or which are part of a larger plan of development or sale disturbing an acre or more of ground.	Q9- all		
			d. While the above revisions are taking place, the City will enforce and apply all existing codes, conditions of approval and requirements to 100% of all projects in the City which disturb 50 cubic yards or more of soil, or an acre or more of ground, or which are part of a larger plan of development or sale disturbing an acre or more of ground.	1-2		
PC.2	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Metals Gross Pollutants (trash, debris) Detergents Toxics (organics, hazardous waste, etc.)	Staff Training	a. The City will develop and maintain a fact sheet on all BMPs currently adopted and in use by the City, and distribute the fact sheet to all relevant personnel.	1-5	b. Document attendance at annual training and certify that all relevant personnel received training.	Public Works Director
			b. The City will train provide training for plan reviewers and inspectors necessary for implementing interim LID requirements (BMP PC.6).	Q2		

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PC.2	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Metals Gross Pollutants (trash, debris) Detergents Toxics (organics, hazardous waste, etc.)	Staff Training	<p>c. The City will prepare materials for training inspectors and plan review staff in the proper implementation of General Permit and City requirements for LID, hydromodification control, and General Permit Attachment 4 design standards, and will conduct annual training for all relevant staff based on the training materials, prior to the end of Q8.</p> <p>d. During annual training, City staff will conduct group review of 50% of the new and redevelopment project plan reviews, inspections, and BMP maintenance report reviews conducted in the previous year to evaluate staff performance and training effectiveness.</p> <p>e. Staff will administer an annual post-training quiz, and will review the results to determine the effectiveness of the training and to identify areas for improvement.</p>	<p>Q8-all</p> <p>2-5</p> <p>3-5</p>	<p>c. Document all BMPs incorporated and whether the desired level of watershed protection was achieved in annual report.</p> <p>a-e. Staff will identify areas that require additional focus adjust programs accordingly</p>	Public Works Director
PC.3	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) pesticides	Plan Review	<p>a. The City will evaluate its existing plan review procedures for their effectiveness in ensuring compliance with the interim LID requirements the City will apply to projects reviewed prior to adoption of long-term LID and hydromodification control criteria (BMP PC.6 and BMP PC.7), and will modify the procedures as necessary.</p> <p>b. The City will develop a plan review checklist consistent with the interim LID requirements that the City will apply to projects reviewed prior to adoption of long-term LID and hydromodification control criteria.</p> <p>c. The City will implement its plan review procedures and checklist to review all new and redevelopment projects for compliance with General Permit and City post-construction stormwater management requirements, particularly the City's interim LID requirements.</p> <p>d. The City will modify its plan review procedures and checklist to incorporate long-term post-construction stormwater management requirements related to LID, hydromodification control, and the General Permit Attachment 4 design standards.</p> <p>e. The City will implement its modified plan review procedures and checklist to review all new and redevelopment projects for compliance with General Permit and City post-construction stormwater management requirements, particularly the City's long-term requirements related to LID, hydromodification control, and the General Permit Attachment 4 design standards</p>	<p>Q2</p> <p>Q2</p> <p>Q2-Q8</p> <p>Q8</p> <p>Q9-Yr5</p>		Public Works Director

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PC.4	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) pesticides	Inspection of Post-Construction Stormwater BMPs	<p>a. The City will evaluate its existing inspection procedures for their effectiveness in ensuring compliance with the City’s post-construction stormwater management requirements, particularly the interim LID requirements the City will apply to projects reviewed prior to adoption of long-term LID and hydromodification control criteria (BMP PC.6 and BMP PC.7), and will modify the procedures as necessary.</p> <p>b. The City will develop an inspection checklist consistent with the City’s post-construction stormwater management requirements, particularly the interim LID requirements that the City will apply to projects reviewed prior to adoption of long-term LID and hydromodification control criteria.</p> <p>c. The City will develop a system to track post-construction stormwater management BMPs from plan review through long-term maintenance.</p> <p>d. The City will inspect all post-construction stormwater management BMPs for proper performance prior to project completion. Proper performance will be a condition of final project approval.</p> <p>e. The City will modify its inspection procedures, inspection checklist, and tracking system to incorporate long-term post-construction stormwater management requirements related to LID, hydromodification control, and the General Permit Attachment 4 design standards.</p> <p>f. The City will implement its modified inspection procedures, inspection checklist, and tracking system for all new and redevelopment projects.</p>	<p>Q2</p> <p>Q2</p> <p>Q2</p> <p>Q2-Q8</p> <p>Q8</p> <p>Q9-Yr5</p>		Public Works Director
PC.5	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Pesticides, gross pollutants (trash, debris)	Long-Term Maintenance of Post-Construction Stormwater BMPs	<p>a. The City will develop and adopt a long-term maintenance agreement for post-construction stormwater BMPs. The agreement will clarify the responsibility for long-term BMP maintenance, establish BMP maintenance and performance standards, establish inspection expectations, identify reporting requirements, and establish necessary authority to enforce the agreement, including the authority for the City to take over maintenance of BMPs and to collect compensation for that maintenance.</p> <p>b. The City will implement and enforce the long-term maintenance agreement.</p> <p>c. The City will track performance and inspection information for all post-construction stormwater management BMPs in operation in the City.</p>	<p>Q2</p> <p>Q3-Yr5</p> <p>Q3-Yr5</p>		Public Works Director

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PC.6	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Metals Gross Pollutants (trash, debris) Detergents Toxics (organics, hazardous waste, etc.)	Master Drainage Plan	a. The Master Drainage Plan will be 80% complete by the end of year 5.	5	Staff will identify areas that require additional focus and adjust programs accordingly.	Public Works Director
PC.7	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Metals Gross Pollutants (trash, debris) Detergents Toxics (organics, hazardous waste, etc.)	Long-Term Watershed Protection and Plan	<p>a. The City will establish long-term watershed protection as a City objective.</p> <p>b. The city will develop and adopt a plan for long-term watershed protection. The plan will include specific numeric measurable goals, effectiveness measures, and an implementation schedule to accomplish the following tasks.</p> <ul style="list-style-type: none"> · Characterize the City’s watersheds and sub-watersheds, including an analysis of current water quality conditions, stream health, land use and development patterns, and pollution/degradation trends; · Evaluate existing watershed protection efforts, including land use policies, plans, ordinances, guidance manuals, development project review procedures, and BMPs; · Establish a minimum setback of 30 feet from the top-of-bank of any waterbody for any development, construction, or grading; · Integrate stormwater management measures and water quality objectives into all aspects of land use planning and development; · Develop a strategy to achieve desired watershed conditions making use of land use policies, plans, ordinances, guidance manuals, development project review procedures, and BMPs; · Develop quantifiable measures that indicate how the City’s watershed protection efforts achieve desired watershed conditions; and · Adopt and apply long range hydromodification criteria · Adapt or change the efforts, if warranted. 	1 5		Public Works Director

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PC.8	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) pesticides	Use of LID	<p>a. The City will apply LID principles and features to all applicable new and redevelopment projects.</p> <p>b. The City will track its accomplishments implementing LID during the transitional period, and will develop a tracking report indicating LID design principles and features incorporated into each applicable new and redevelopment project. The City will submit the tracking report in its annual reports.</p> <p>c. The City will develop and adopt LID criteria for all new and redevelopment projects that optimize the application of LID principles and features, including specific criteria for the selection and performance of LID BMPs.</p> <p>d. The City will apply and enforce its long-term LID criteria for all new and redevelopment projects.</p>	<p>Q2-Q8</p> <p>Q2-Q8</p> <p>Q8</p> <p>Q9-Yr5</p>	a-c. Staff will identify areas that require additional focus and adjust programs accordingly.	Public Works Director
PC.9	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) pesticides	Adoption of Hydromodification Criteria	<p>a. The City will derive and adopt City-specific criteria for controlling hydromodification in new and redevelopment projects, using Water Board-approved methodology developed through the Joint Effort.</p> <p>b. The City will identify and adopt applicability thresholds for applying hydromodification control criteria for new and redevelopment projects. The applicability thresholds will be consistent with long-term watershed protection.</p> <p>c. The City will apply and enforce its hydromodification control criteria and applicability criteria for all new development and redevelopment projects.</p>	<p>Q8</p> <p>Q8</p> <p>Q9-Yr5</p> <p>1-5</p>	a-c. Staff will identify areas that require additional focus and adjust programs accordingly	Public Works Director
PC.10	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Metals Gross Pollutants (trash, debris) Detergents Toxics (organics, hazardous waste, etc.)	Education and Outreach	<p>a. The City will develop a plan for education and outreach, including measurable goals, schedules, and target audiences, the City will conduct in support of the following strategic objectives: enforceable mechanisms, hydromodification control criteria, applicability thresholds, LID BMP design, and compliance with LID and hydromodification control criteria. The plan will include distributing guidance materials to all zoning applicants.</p> <p>b. The City will implement the education and outreach plan.</p>	<p>Q2</p> <p>Q3-Yr5</p>		

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PC.10	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) Metals Gross Pollutants (trash, debris) Detergents Toxics (organics, hazardous waste, etc.)	Education and Outreach	c. The City will track its accomplishments implementing the education and outreach plan supporting the implementation of hydromodification controls and LID, and will submit the tracking report in its first annual report and by October 30, 2011. d. The City will develop (or modify), advertise, and make available LID BMP design guidance materials that optimize the application of LID principles and features, suitable to all stakeholders (including City planning and plan review staff and the development community) for use in the City while the City is developing LID and hydromodification control criteria. e. The City will develop specific guidance on how to achieve and demonstrate compliance with the long-term hydromodification control and LID requirements. f. The City will advertise the guidance on how to achieve and demonstrate compliance with the long-term hydromodification control and LID requirements, and will make it available to new and redevelopment project applicants. The City will also distribute the guidance to all zoning applicants.	Q3- Q8 Q4 Q8 Q9- Yr5		Public Works Director

6.0 POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

The purpose of this minimum control measure for Municipal Operations/Good Housekeeping Practices is to assure that the City’s delivery of public services occurs in a manner protective of storm water quality to the Maximum Extent Practicable and protect overall water quality. In this way the City may serve as a model to the community.

6.1 Minimum Requirements

The State’s General Permit states that the City must develop and implement an operations and maintenance plan that will prevent or reduce pollutants in runoff from municipal operations (*USEPA Fact Sheet 2.8 – Pollution Prevention/Good Housekeeping, 01/00*).

The minimum requirements are:

- To consider municipal activities and identify those that may contribute pollutants to storm water;
- To select and implement Best Management Practices (BMPs) that will reduce or eliminate pollutants in storm water runoff from these activities to the Maximum Extent Practicable; and

- To train new and existing employees on the potential impacts to storm water from municipal activities and the implementation of BMPs to prevent and reduce these impacts.

6.2 Best Management Practices

Tables 6-1 and 6-2 summarize the City facilities and services and identify those that may contribute pollutants to storm water. (* Numeric references in Tables 6-1 shown in parentheses, refer to the number of each type of facility in existence in the City)

Table 6-1: City Facilities

Facility	Potential Pollutant Sources	Responsible Division	BMP
City Hall	Trash bin, litter, parking lot, janitorial wastes, landscaping	Public Works(Maintenance), all City staff, Parks and Rec	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,
Fire Station	Vehicle washing, janitorial wastes	Fire, Ambulance staff	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,
Municipal Annex	Public recycling bins, staff picnic area, litter parking lot, landscaping.	Public Works, Parks and Rec, all City staff	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,
Water & Maintenance Shop, including storage areas	Equipment storage, parking, trash bins, public recycling bins (all shop maintenance conducted indoors)	Public Works	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,
Wastewater Treatment Plant	No potential storm water pollutants. Runoff is captured and treated at headworks via lift station; facility requires no NPDES Industrial permit.	Public Works, Wastewater	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,
Veteran's Memorial Building	Trash bins, parking, litter	Maintenance, Parks and Rec	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,
Elverhoy Museum	Trash bins, litter, parking	Maintenance, Parks and Rec	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,ID.7
Solvang Park	Trash bins, litter, parking	Maintenance, Parks and Rec	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,ID.7
Sunny Fields Park	Trash bins, litter, parking	Maintenance, Parks and Rec	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,ID.7
Hans Christian Anderson Park, Park Residence	Trash bins, litter, vehicle wastes, parking, equipment storage	Maintenance, Parks and Rec	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,ID.7
Parking lots (4)*	Vehicle wastes, litter	Maintenance	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,
Restrooms (3)* at Public Parking lots	Janitorial wastes, litter	Maintenance, Parks and Rec	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,
Streets and storm drains	Vehicle wastes, litter, unknown material including illegal dumping	Maintenance	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,
Water Supply Reservoirs (3)* and groundwater wells (4)*	Every two years cleaned with rinse waters disposed to storm drain (no cleansers)	Water	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4,ID.5,ID.6,
City wide	Hazardous Waste/ Hazardous Waste Spills	County Fire Department	PE.1,PE.6,PE.8,GH.1,GH.2, GH.3,ID.4,ID.5,ID.6,ID.7

Table 6-2: City Activities

Activity	Potential Pollutant Sources	Responsible Division	BMP
Park maintenance	Over application of pesticides, herbicides, spills during mobilization and storage, improper greenwaste disposal	Parks & Rec	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4, ID.5, ID.6, ID.7
Trash removal and temporary storage	Trash that misses the bins, trash bin liquid discharges	Maintenance	GH.1, GH.2, GH.3, ID.4, ID.5, ID.6,
Vehicle maintenance, Washing, Minor repairs (i.e., oil changes)	Improperly managed wastes, including solids, liquids, and hazardous materials, contaminated wash water,	All (about 32 cars distributed in each division, plus ten additional vehicles such as tractors, fire engine, and buses)	PE.1, PE.6, GH.1, GH.2, GH.3, ID.4, ID.5, ID.6
Janitorial service (in-house and contractor)	Improper disposal of wash water and other waste products into storm drain system	Maintenance	PE.1, PE.5, PE.6, GH.1, GH.2, PP.2, PP.3, ID.4, ID.5, ID.6, ID.7
Construction (contractors)	Improperly managed construction wastes, sediment runoff, staging area runoff (equipment leaks or spills)	Engineering	PE.1, PE.5, PE.6, GH.1, GH.2, PP.2, PP.3, CS.3, CS.4, CS.5, CS.6, PC.2, PC.3, PC.4, PC.5, ID.4, ID.5, ID.6,
Water pressure testing – discharged into storm drain	Pollutants which may be present in gutters, & storm drains, i.e., trash, organics, etc.	Water	GH.2, GH.1, PP.3, ID.4, ID.5, ID.6,
Water Line Flushing	debris	Water	GH.2, GH.1, PP.3, ID.4, ID.5, ID.6,
Water supply reservoir maintenance	Every two years cleaned with rinse waters disposed to storm drain (no cleansers)	Water	GH.2, GH.1, PP.3, ID.4, ID.5, ID.6,
Fire hose testing – discharged into storm drain	Any pollutants present in street, gutters, & storm drains	County Fire Department	GH.2, GH.1, PP.3, ID.4, ID.5, ID.6,
City wide	Hazardous Waste/ Hazardous Waste Spills	County Fire Department	PI.4, PE.1, PE.6, PE.8, GH.1, GH.2, GH.3, ID.4, ID.5, ID.6, ID.7

The City will implement the Best Management Practices and Measurable Goals described below. Effectiveness Measures and Measurable Goals are outlined in tables immediately following descriptions.

PP.1 - Development of Citywide Best Management Practices (BMPs): The city currently utilized BMPs specified in the CASQA Municipal Handbook on a case by case basis. The City will review existing guidance materials on the basis of their adequacy to achieve the MEP standard for our city. If deemed necessary, additional BMP guidance material will be developed (and/or adopted from existing sources) for all City facilities and activities with identified pollutant sources, shown above in Tables 6-1 and 6-2.

The guidance material will be used by City staff to:

1. Assure that water quality is being protected at municipal operations through the use of BMPs;
2. Track implementation of BMPs;
3. Develop a plan for future implementation of BMPs; and
4. Prepare annual reports for internal purposes and for the annual monitoring report required under the NPDES permit.

BMP's will be selected from applicable practices listed in the CASQA Municipal Handbook. This volume contains a menu of suggested BMPs that either are or will be implemented by the City. Those BMPs that are appropriate to the City's municipal operations will be identified on a case-by-case basis. The menu approach for listing BMPs provides flexibility for similar activities at different locations and allows the city to track implementation for reporting. The menu approach also allows flexibility when operations change. For example, a landscaped area of lawn could be replanted using a xeriscape design, and little or no application of pesticides would be necessary afterward. In this case, the activity remains the same (Landscaping) but the BMPs employed would have changed.

Measurable Goals:

a. The City will identify BMPs the City will implement for all municipal operations, including specific numeric performance expectations and effectiveness measures. BMPs will be chosen from the CASQA handbook on a case-by-case basis.

Year 1

b. The City will implement all existing BMPs in the first year, and in all subsequent years unless they are replaced with more effective BMPs.

Years 1-5

c. City staff will develop and implement a tracking system document implementation, effectiveness, inspection, inspection results, and maintenance/replacement of all municipal BMPs.

Year 2

d. City staff will perform annual evaluation of the appropriateness and effectiveness of BMPs, reviewing 50% of the BMPs for municipal operations each year, and will revise or replace BMPs as necessary.

Years 3-5

PP.2 Purchasing and Contracts: The City will revise contractual language, as necessary, to require vendors and contractors to implement BMPs that are City-approved and in compliance with General Permit conditions, including a plan for inspecting work done by contractors and vendors for compliance with City and General Permit requirements by the end of Year 3. Such services and contracts may include, landscaping, roadwork, vehicle maintenance housekeeping, painting, and construction.

After the initial review in the first year of the permit the Public Works Director will determine areas and associated contracts that may need to be revised. If it is determined that appropriate BMPs have not been used as recommended or required, contracts will be reworded. This will include specific language requiring contractors to obtain approval from the City of project-oriented BMPs or activity-related Water Quality Plan (similar to a Storm Water Pollution Prevention Plan as required for construction activities under the Federal NPDES program). The contractor's approved BMPs or Water Quality Plan would describe how storm water conveyances would be protected from potential pollutants specific to the project undertaken. If the contractor violates the plan, it would be sufficient reason for termination of the contract without harm to the City. The City will ensure correction of inadequate implementation of BMPs and mitigate for water quality impacts resulting from water quality plan violations. The responsibility for the correction will lie with the contractor

and be enforced as outlined Section I.9 of this document to ensure pollutant reduction and water quality protection.

Measurable Goals:

a. The City will identify and evaluate contractual language used in all City contracts to determine whether contractors have policies protective of water quality.

Year 1

b. Revise contractual language in year 2 to require contractors to implement City-approved BMPs for all operations to reduce pollutants in stormwater to the MEP and to protect water quality, and use the revised language in City contracts in year 2 and in all subsequent years.

Years 2-5

c. Develop a spreadsheet to track vendor/contractor projects and BMP effectiveness that will report the number of Notice of Violations per project and the number of Corrective actions, along with deadlines and schedules of corrective action.

Year 1

d. Evaluate contractor compliance with BMPs; and count the number of violation.

Years 2-5

e. Staff will inspect all contractor activities quarterly for compliance with contract language requiring City-approved BMPs.

Years 2-5

f. The City will enforce compliance for 100% of contractor activities where the City identifies a violation using established enforcement methods.

Years 2-5

PP.3 Training by City Departments: All City employees will receive annual training on storm water pollution prevention based on their work responsibilities. Most of the training programs will be integrated into existing training presented to staff, such as safety training. The City will develop a Fact Sheet including all BMPs currently adopted and in use by the City, and will distribute the Fact Sheet and use it in training. The Fact Sheet will provide general direction to all City employees through new employee orientation to protect water quality both at work and at home. Training topics will range from the general “City-Wide Employee BMPs” to activity-specific BMPs such as “Vehicle Maintenance.”

Measurable Goals:

a. The City will provide annual training for key staff (currently the Public works Director, Engineering Technician, and Operators and Inspectors) in the proper implementation of all BMPs adopted by the City for municipal operations. The City will also develop in year 1, and keep current and include in the SWMP as a revision, a list of staff who will be trained in the implementation of each BMP.

Years 1-5

b. City departmental managers will develop guidance on their Department’s responsibilities for storm water management and will provide this information to all relevant personnel.

Years 2-5.

c. In the first year, the City will develop (or adopt an existing) fact sheet on all BMPs currently adopted and in use by the City. The City will keep the Fact Sheet current and will distribute it to all personnel responsible for installing, implementing, maintaining, or enforcing BMPs.

Years 1-5

d. The City will prepare materials for training all staff responsible for installing, implementing, maintaining, or enforcing BMPs in the proper installation, implementation, maintenance, and enforcement of BMPs, and will update these materials annually.

Years 1-5

e. The City will conduct annual training using the training materials for all staff responsible for installing, implementing, maintaining, or enforcing BMPs, and will administer an annual post-training quiz.

Years 1-5

GH.1 Street Sweeping: The City contracts for street sweeping for 100% of its streets plus City-owned public parking lots on a regular basis. Sweeping is currently conducted twice per month. No water is discharged from the street sweeping with the exception of dust control spray. Wastes are vacuumed and disposed of by the contractor.

Sidewalks are inspected weekly and steam cleaned on an as-needed basis in the downtown area; no chemicals are used in the process. Solids are collected by-hand prior to and subsequent to steam cleaning.

Measurable Goals:

a. City staff will inspect sidewalks weekly to determine need for sweeping.

Years 1-5

b. The City will sweep City streets and City-owned public parking lots twice per month. The sweeping activity will discharge no wastes or water into the storm drain system.

Years 1-5

GH.2 Storm Drain Cleaning: The storm drain system operates for the most part without blockages and therefore major maintenance is performed on an as-needed basis. Open channels and drop inlets, will be cleaned annually prior to the rain season to remove fallen leaves and other debris collected in the system. The entire system including open channels, drop inlets, pipelines and catch-basins, will be cleaned on an as needed basis.

Where more serious blockages occur, the City utilizes a Vactor truck for cleaning the storm drain. City staff will evaluate the cost-effectiveness of employing the Vactor truck on a more frequent basis for clean out of the storm drain system.

Measurable Goals:

a. The City will clean all open channels and storm drain inlets annually prior to the rainy season; The City will also clean catch basins, pipelines, open channels, and storm inlets on an as-needed basis.

Years 1-5

b. In year 1, City staff will determine the cost effectiveness of cleaning the storm drain system using a Vactor truck as part of routine maintenance.

Year 1

c. If regular cleaning with a Vactor truck is cost-effective, City staff will prepare a cleaning schedule in year 2, and will implement the schedule in year 2 and in all subsequent years.
Years 2-5

GH.3 - Trash, Green Waste and Recycling: In order to prevent solid wastes from entering the storm drain system, the City currently provides and will continue to provide trash, green waste, and recycling services. There are 30 public trash containers maintained by the City. These are emptied four days a week, or more frequently if needed, often daily for some receptacles. A private waste-haul contractor removes the trash.

The City has enacted a Green Waste Ordinance, requiring residential and commercial users of the waste service to separate green waste from trash and use the green waste bins provided by the hauler. There are also three public green waste bins available to the public. These bins are emptied every two weeks; The City also enacted a ban on the disposal of cardboard.

The City also provides commingled recycling bins to the public. There are two bins located near the City Hall and Annex, and four three bin recycling sites located around town. These bins are emptied every two weeks. In addition, the regional recycling and hazardous materials collection site is located in the City of Solvang and is available to the public.

Measurable Goals:

a. The City will empty public trash receptacles 4 times per week, and as needed. In addition, the City will evaluate the effectiveness of the public trash receptacle activity each year, and modify it as needed.

Years 1-5

b. The City will empty green waste bins every two weeks, and as needed. In addition, the City will evaluate the effectiveness of the public trash receptacle activity, and modify it as needed.

Years 1-5

c. the City will empty public recycling bins every two weeks, and as needed. In addition, the City will evaluate the effectiveness of the public recycling receptacle activity, and modify it as needed.

Years 1-5

d. Include 1-2 questions relating to recycling in the online survey.

Years 1-5

e. Publish 1 article annually relating to trash, green waste and/or recycling in the online survey

Years 1-5

6.3 Reporting

Data collected for each measurable goal will be compiled, reviewed and summarized as part annual report to the RWQCB. Significant variance from targets, City employees, elected officials and the general public's input, and other sources will be used to modify BMPs or the measurable goals, as appropriate; the basis for any changes will be included in the subsequent annual report. The City will retain storm water records for five years. Each department will also keep their records for five years.

**Table 6-3
BMP Implementation:
Pollution Prevention and Good Housekeeping for Municipal Operations**

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PP.1	Sediment Pathogens (indicator bacteria) Hydrocarbons (O&G, lubricants) metals , nutrients	Adoption/ Development of City-wide BMPs	a. The City will identify BMPs the City will implement for all municipal operations, including specific numeric performance expectations and effectiveness measures. BMPs will be chosen from the CASQA handbook on a case by case basis.	1	b.100% of BMPs incorporated will be documented	Public Works Director
			b. The City will implement all existing BMPs in the first year, and in all subsequent years unless they are replaced with more effective BMPs.	1-5		
			c. City staff will develop and implement a tracking system document implementation, effectiveness, inspection, inspection results, and maintenance/replacement of all municipal BMPs.	2		
			d. City staff will perform annual evaluation of the appropriateness and effectiveness of BMPs, reviewing 50% of the BMPs for municipal operations each year, and will revise or replace BMPs as necessary.	3-5		
PP.2	Sediment Nutrients (P, N, N03, N02) Metals Detergents Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris) Toxics (organics, hazardous waste, etc	Purchasing and Contracts	a. The City will identify and evaluate contractual language used in all City contracts to determine whether contractors have policies protective of water quality.	1	a-d. Staff will evaluate the effectiveness of the contract review and modify it as necessary c. Count the number of contracted projects or activities which affect water quality; d. Count the number of violation notices sent and corrective actions taken.	Public Works Director
			b. Revise contractual language to require contractors to implement City-approved BMPs for all operations to reduce pollutants in stormwater to the MEP and to protect water quality, and use the revised language in City contracts in year 2 and in all subsequent years.	2-5		
			c. Develop a spreadsheet to track vendor/contractor projects and BMP effectiveness that will report the number of Notice of Violations per project and the number of Corrective actions, along with deadlines and schedules of corrective action.	1		
			d. Evaluate contractor compliance with BMPs.	2-5		
			e. Staff will inspect all contractor activities quarterly for compliance with contract language requiring City-approved BMPs.	2-5		
			f. The City will enforce compliance for 100% of contractor activities where the City identifies a violation using established enforcement methods.	2-5		

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
PP.3	Sediment Nutrients (P, N, N03, N02) Metals Detergents Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris) Toxics (organics, hazardous waste, etc)	Training by City Departments	<p>a. The City will provide annual training for key staff (currently the Public works Director, Engineering Technician, and Operators and Inspectors) in the proper implementation of all BMPs adopted by the City for municipal operations. The City will also develop in year 1, and keep current and include in the SWMP as a revision, a list of staff who will be trained in the implementation of each BMP.</p> <p>b. City departmental managers will develop guidance on their Department's responsibilities for storm water management and will provide this information to all relevant personnel.</p> <p>c. In the first year, the City will develop (or adopt an existing) Fact Sheet on all BMPs currently adopted and in use by the City. The City will keep the Fact Sheet current and will distribute it to all personnel responsible for installing, implementing, maintaining, or enforcing BMPs.</p> <p>d. The City will prepare materials for training all staff responsible for installing, implementing, maintaining, or enforcing BMPs in the proper installation, implementation, maintenance, and enforcement of BMPs, and will update these materials annually.</p> <p>e. The City will conduct annual training using the training materials for all staff responsible for installing, implementing, maintaining, or enforcing BMPs, and will administer an annual post-training quiz.</p>	<p>1-5</p> <p>2-5</p> <p>1-5</p> <p>1-5</p> <p>1-5</p>	<p>a. 100 % of staff trained will be documented.</p> <p>c. Two questions in the post training quiz will pertain to the fact sheet</p> <p>d. content, method of presentation, and subsequent reporting will be documented</p> <p>e. attendance will be documented and answers to the quiz reviewed and evaluated for areas requiring additional focus</p> <p>a-e. Staff will evaluate the effectiveness of the annual training and modify it as necessary</p>	Public Works Director
GH.1	Pathogens, Sediment Nutrients (P, N, N03, N02) Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris)	Street Sweeping	<p>a. City staff will inspect sidewalks weekly to determine need for sweeping.</p> <p>b. The City will sweep City streets and City-owned public parking lots twice per month. The sweeping activity will discharge no wastes or water into the storm drain system.</p>	<p>1-5</p> <p>1-5</p>	<p>a.-b Document lane-miles swept weight of solids removed, and status of sweeping contract.</p> <p>Staff will evaluate the effectiveness of the long-term maintenance strategy modify it as necessary</p>	Public Works Director

No.	Targeted POCs	BMP	Measurable Goal	Year	Effectiveness Measure	Responsible Party
GH.2	Pathogens, Sediment Nutrients (P, N, N03, N02) Hydrocarbons (O&G, lubricants) Pesticides Gross pollutants (litter, trash, debris)	Storm Drain Cleaning	a. The City will clean all open channels and storm drain inlets annually prior to the rainy season. The City will also clean catch basins, pipelines, open channels, and storm inlets on an-as needed basis.	1-5	a-b The amounts of debris and frequency of cleaning will be documented and evaluated and schedules adjusted to maintain a clear system. Staff will evaluate the effectiveness of the long-term maintenance strategy and make recommendation for future assessments and modify it as necessary.	Public Works Director
			b. In year 1, City staff will determine the cost effectiveness of cleaning the storm drain system using a Vactor truck as part of routine maintenance.	1		
			c. If regular cleaning with a Vactor truck is cost-effective, City staff will prepare a cleaning schedule in year 2, and will implement the schedule in year 2 and in all subsequent years.	2-5		
GH.3	Gross pollutants (litter, trash, debris)	Trash, Green Waste and Recycling	a. The City will empty public trash receptacles 4 times per week, and as needed. In addition, the City will evaluate the effectiveness of the public trash receptacle activity, and modify it as needed.	1-5	a.-c. The amounts of waste and frequency of emptying will be documented and evaluated and schedules adjusted to maintain a viable system. d. Answers will be tabulated and staff will identify areas that require additional focus by end of Year 3 and throughout the life of the permit and programs adjusted accordingly	Public Works Director
			b. The City will empty green waste bins two weeks, and as needed. In addition, the City will evaluate the effectiveness of the public trash receptacle activity, and modify it as needed.	1-5		
			c. The City will empty public recycling bins every two weeks, and as needed. In addition, the City will evaluate the effectiveness of the public recycling receptacle activity, and modify it as needed.	1-5		
			d. Include 1-2 questions relating to recycling in online /direct mail survey.	1-5		
			e. Publish 1 article annually relating to trash, green waste and/or recycling in local papers.	1-5		

MONITORING PROGRESS AND REPORTING

MONITORING AND REPORTING REQUIREMENTS

The purpose of monitoring and reporting is to document successful implementation of the SWMP and determining the program's effectiveness at reducing pollutants to the MEP and protect water quality. The draft General Permit requires annual reports be submitted annually upon approval of the City's SWMP. The City intends these annual reports to cover the fiscal year immediately prior to the reporting period.

The City will monitor the implementation of its program and the overall effectiveness by measuring and reporting the data discussed in the individual Minimum Control Measures sections discussed above.

In general, the data that will be collected:

- Progress establishing BMPs that are developed during the SWMP implementation period, or establishing existing BMPs in newly identified permit areas
- Training City staff (and contractors as appropriate contractors),
- Objective measures of ongoing BMPs such as public participation or education outreach, and
- Response time and results of pollution cleanup.
- Information regarding the City's implementation of BMPs specified in the SWMP;
- Information regarding the City's progress toward measurable goals identified in the SWMP;
- Information regarding the effectiveness of BMPs, according to effectiveness Measures identified in the SWMP for each BMP; and
- Information regarding BMPs' effectiveness at reducing pollutants to the MEP and protecting water quality

The City will evaluate both current conditions and BMP effectiveness and, as appropriate, update BMPs and measurable goals to achieve the objective of meeting water quality standards to the Maximum Extent Practicable. It may be necessary to expand or better tailor existing BMPs after implementing the minimum control measures described in this SWMP. Such changes would be based on the results of monitoring provided in the annual reports and developed in consultation with the Community Interest Group and the Central Coast Regional Water Quality Control Board (RWQCB).

Form and Content of Annual Report

The City's annual reports will include:

- The status of compliance with General Permit conditions;
- An assessment of the appropriateness and effectiveness of identified BMPs;
- The status of the identified measurable goals;
- Results of information collected and analyzed, including monitoring data, if any, during the reporting period;
- A summary of stormwater activities the City plans to undertake during the next reporting cycle;
- Any proposed change(s) to the SWMP along with a justification for the changes;
- A change in the person or persons implementing and coordinating the SWMP; and
- The effectiveness of each BMP, particularly its effectiveness at reducing pollutants to the MEP and protecting water quality.

The State has not yet provided specific guidance as to the specific form and content of the annual report. The City intends to provide summaries of data in tabular form. Data such as number of employees trained, number of construction sites inspected, etc. will be presented in summary tables. Because the City is required to keep records for five years and due to the intent of the reporting requirement, the annual report will focus on a summary of progress and discuss any changes to the SWMP to be implemented in meeting the “maximum extent practicable” standard. Of necessity, the reporting format needs to be flexible and if changed, reasons will be given. Focus will be to clearly show progress, discuss program adjustments, and respond to challenges in implementing the SWMP.

Reporting and Compilation of data

The City is developing a central reporting system to allow a web-based reporting of BMPs. This City-wide program is intended to track BMP selection and implementation, identify schedules for all facilities, and provide opportunity for feedback and clarification on BMPs. Report results will be used directly in the annual report to the RWQCB to identify BMPs implemented by the City.

Pursuant to the State’s “General Permit,” the City will retain storm water records for five years. Each department responsible for implementing substantive elements of the SWMP will be directed to keep their records for five years. These records will be the source of compiled data contained in the Annual Report.

8.0 REFERENCES

California Department of Finance, Demographics Research Unit
2007 City/County Population Estimates. May 2007.

<http://www.dof.ca.gov/HTML/DEMOGRAP/ReportsPapers/Estimates/E1/documents/E-1table.xls>.

Central Coast Regional Water Quality Control Board (Central Coast Water Board)
1994 Water Quality Control Plan (Basin Plan). September 8, 1994.

<http://www.waterboards.ca.gov/centralcoast/BasinPlan/Index.htm>.

Central Coast Regional Water Quality Control Board (Central Coast Water Board)
2008a *Notification to Traditional, Small MS4s on Process for Enrolling Under the State's General Permit for Storm Water Discharges* Letter dated February 15.

Central Coast Regional Water Quality Control Board (Central Coast Water Board)
2008b *Water Board Staff's Current Knowledge of Water Quality Challenges That the City of Santa Maria Must Address In Its Storm Water Management Program*. Letter dated March 18.

City of Solvang General Plan

1988 General Plan. Housing Element amended August 14, 1995

http://www.cityofsolvang.com/docs/General%20Plan%20Docs/0958_001.pdf

Code of Federal Regulations (CFR)

2007a *EPA Administered Permit Programs: The National Pollutant Discharge System*. U.S. Environmental Protection Agency, 40 CFR 122.32 and 122.26, 2007 edition. Office of the Federal Register, National Archives and Records Service, General Services Administration, U.S. Government Printing Office, Washington D.C.

Code of Federal Regulations (CFR)

2007b *State and Local Assistance*. U.S. Environmental Protection Agency, 40 CFR 35.2005, 2007 edition. Office of the Federal Register, National Archives and Records Service, General Services Administration, U.S. Government Printing Office, Washington D.C.

Flood Insurance Studies 06083CV003A and 06083CV001A

2005 Santa Barbara County Federal Emergency Management Agency Flood Insurance Study
Volumes 1 and 3. September 30, 2005

<http://msc.fema.gov/webapp/wcs/stores/servlet/FemaWelcomeView?storeId=10001&catalogId=10001&langId=-1>

County of Santa Barbara, Public Works Department, Water Resources Division,
Flood Control and Conservation District

2005 Groundwater Reports: Santa Ynez Groundwater Basin.

<http://www.countyofsb.org/pwd/pwwater.aspx?id=4042&terms=santa+Ynez+River+watershed>

Rondash, Eugene

2009 County of Santa Barbara Water Resources and Flood Control Department. Personal communication. January 14.

U.S. Census Bureau

2008 Solvang city, California – American Fact Finder. January 23.

http://factfinder.census.gov/servlet/SAFFFacts?_event=&ActiveGeoDiv=geoSelect&pctxt=fp&h&

APPENDIX A**Measures to be Included in Review of City Land Use Policies and Design Guidelines**

Site Planning Measures (these minimize impervious surface and maximize infiltration):

Site Planning Measures (these minimize impervious surface and maximize infiltration):

- Cluster development
- Preserve natural topography, drainage patterns, and stream channels;
- Pursue alternate designs in pedestrian areas
- Avoid curb and gutter along driveways and streets where appropriate
- Use alternate paving materials/porous/permeable materials, where appropriate
- Reduce the length of driveways or infiltrate driveway runoff
- Reduce alley width or use alternate materials for paving alleys
- Set aside open space
- Riparian and wetland buffers;
- Minimize soil disturbance;
- Preserve natural vegetation;
- Preserve trees;
- Protect steep slopes;
- Preserve hydrologically functioning areas (floodplains, recharge zones, wetlands, topography, channel shape and slope); and
- Provide pet waste controls

Source Control Measures (these avoid pollution in the long run by eliminating sources):

- Provide green areas where pets can be exercised
- Install landscaping or other ground cover
- Incorporate low-maintenance landscaping that does not require frequent fertilizer or water
- Require labeling of storm drains to discourage dumping
- Where possible, eliminate gutters/roof drains draining to paved areas or direct runoff to landscaped areas
- Construct designated vehicle wash area in new residential developments
- Encourage underground parking and the construction of multi-storied parking structures
- Encourage cooperative or shared parking
- Encourage use of alternate paving materials for parking lots
- Reduce building footprint and increase use of taller structures (where appropriate)
- Use berms around waste storage areas
- Install valves on storm drain inlets in loading dock areas

Treatment Control Measures (these capture and treat the polluted runoff before it enters the city's storm drain system or other receiving waters):

- Rooftop Catchment Systems
- Vegetated Filter Strips
- Vegetated Swales
- Infiltration Basins
- Infiltration Trenches
- Dry Detention Ponds/Basins
- Retention Ponds/Wet Basins
- Constructed/Restored Wetlands
- Filtration Systems
- Oil/Grit Separators

APPENDIX B

Public Outreach Information

Webpage with links to brochures

City of Solvang - Storm Water System Page 1 of 2



**City of Solvang
Storm Water Plan**

HOME CITY NEWS CITY COUNCIL DEPARTMENTS STAFF SPECIAL EVENTS FORMS/MAPS PHOTOS LINKS CITY MANAGER'S WELCOME

The River Begins On Your Street!




The City of Solvang has adopted a Storm Water Management Plan.
Proposed Best Management Practices (BMPs) for City operations are posted here...

- [Alternate Safer Practices \(330 kb\)](#)
- [Building Maintenance & Repair \(336 kb\)](#)
- [Employee Training \(430 kb\)](#)
- [Housekeeping \(292 kb\)](#)
- [Kitchen, Restaurant & Deli \(308 kb\)](#)
- [Landscape & Undeveloped Areas \(349 kb\)](#)
- [Loading & Unloading \(311 kb\)](#)
- [Materials & Hazardous Waste Storage \(342 kb\)](#)
- [Metal, Wood, Paint & Print Shops \(299 kb\)](#)
- [Parking Lots & Garages \(288 kb\)](#)
- [Spill Prevention & Cleanup \(329 kb\)](#)
- [Storm Drains & Catch Basins \(918 kb\)](#)
- [Trash & Dumpster Management \(294 kb\)](#)
- [Vehicle & Equipment Fueling \(419 kb\)](#)
- [Vehicle & Equipment Maintenance & Repairs \(390 kb\)](#)
- [Vehicle & Equipment Washing & Steam Cleaning \(298 kb\)](#)
- [Basic BMPs for Employees \(336 kb\)](#)

To view the entire draft document (438KB) in pdf format click here [STORM WATER MANAGEMENT PLAN](#)

STORMWATER TIPS FOR THE PUBLIC

- Don't litter
- Pick up after pets
- Wash your vehicle at a car wash
- Sweep your driveway and sidewalk instead of rinsing it
- Do not dump ANY green waste into creeks or drainage channels
- Dispose of ALL automotive fluids properly
- Don't let your vehicle drip fluids onto the ground
- Dispose of ALL chemicals & pesticides properly
- Plant trees & native plants instead of concrete

ART CONTEST WINNER!

We have a winner in the recent "Storm Water Logo Contest"
 Congratulations to Pat Dalo for his winning entry

<http://www.cityofsolvang.com/stormwater.html>

10/28/2008

Public Outreach Information

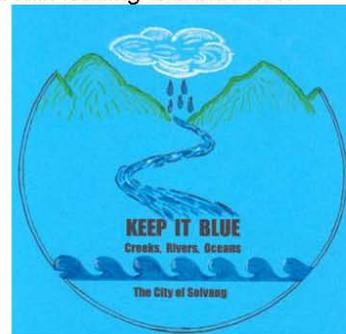
SOLVANG ANNOUNCES WINNER OF STORM WATER LOGO CONTEST



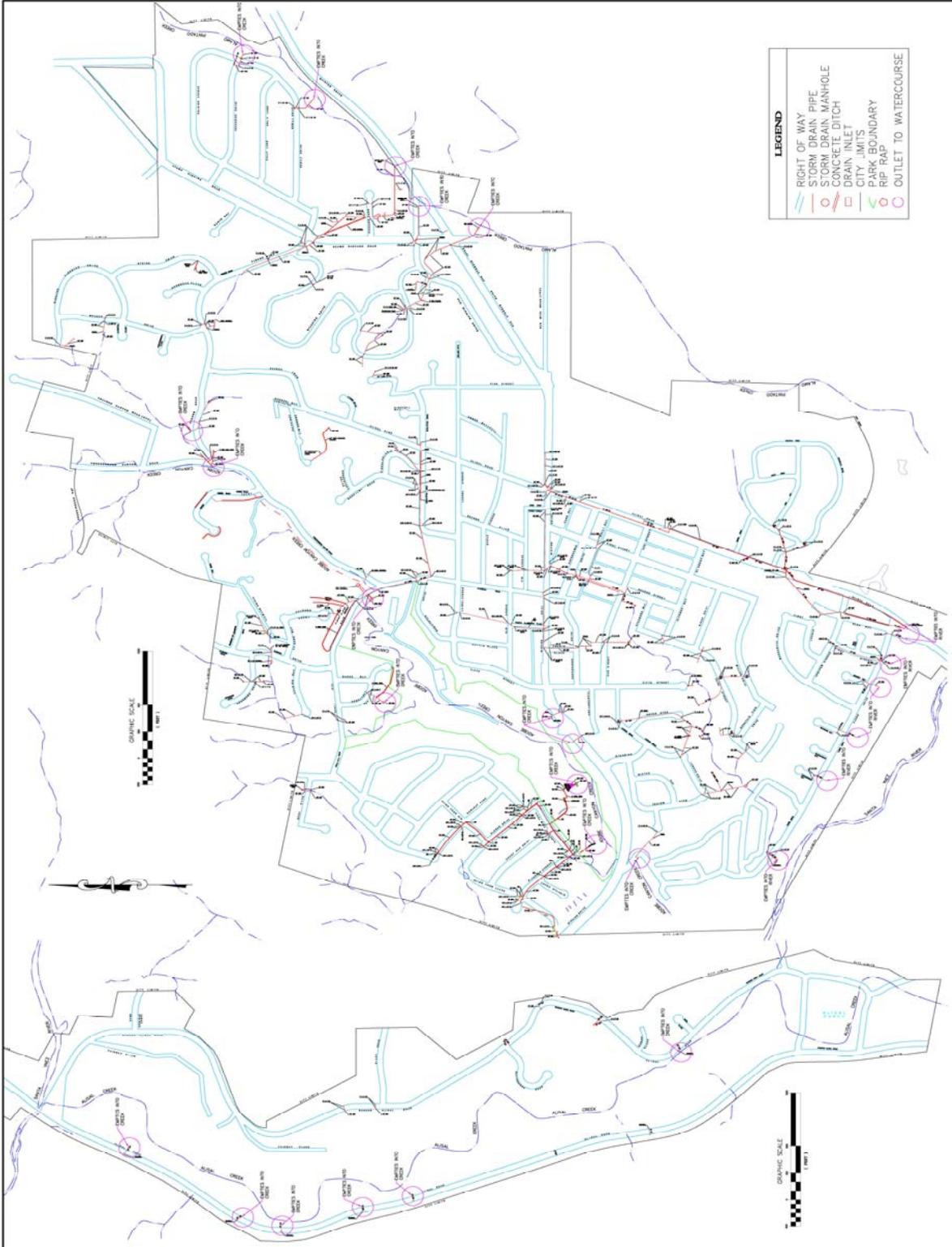
Pat Dalo of Santa Ynez Valley High School was presented with the First Place Award for his artwork entry in Solvang's recent Storm Water Logo Contest. The prize, a Portable CD Player, was presented to him in front of City Hall on Wednesday, May 26, 2004 by Ken James of the Public Works Department. Pat's logo, entitled "KEEP IT BLUE" was chosen to represent Solvang's efforts to improve public awareness of the link between storm drains and clean water. The winning logo depicts a distant mountain range, clouds and rain leading to a blue river.

The Second Place winner in the contest was Barrett Colvin, who will be awarded a \$40 Gift Certificate to Tower Pizza. Third place prizes of movie tickets will be awarded to Tyler Dalo, Shashi Mostafa, and Suvra Mostafa. All winners have their entries displayed on the City's website.

Storms drains lead straight to local creeks, rivers, and the ocean. Whatever enters a storm drain travels untreated to local water sources. For more information regarding Solvang's Storm Water Management Plan please visit Solvang's website at www.cityofsolvang.com or contact City Hall at 688-5575.



APPENDIX C - MAPS



CITY OF SOLVANG, DEPARTMENT OF PUBLIC WORKS
 154 OAK STREET, SOLVANG, CA 93284
 (805) 886-2121

SOLVANG STORM DRAIN ATLAS

© 2004 BY CITY OF SOLVANG. ALL RIGHTS RESERVED.
 THIS MAP WAS NOT MEANT TO BE USED FOR
 PLANNING PURPOSES ONLY.
 FOR CURRENT AND DETAILED UPDATES

APPENDIX D Existing City Ordinances Pertaining to Stormwater

Title 4: Business Regulations

Chapter 1: Animal Drawn Conveyance Licenses

Section 4-1-4: Application for Licenses

Overview: Application shall include The tools, equipment, means and procedures to be used to keep the streets free at all times from droppings and urine of the draft animals; and the place or places where such droppings and urine are to be stored, if stored before final disposal, and the place or places and methods of final disposal of such droppings and urine.

Section 4-1-7: Issuance of License; Term and Renewal

Overview: The proposed sanitation methods will keep the streets reasonably free from animal excrement and urine.

Section 4-1-8: Conditions of License

Overview: Keep city owned and maintained streets and roads, gutters, parkways and sidewalks free from draft animal droppings and urine.

Section 4-1-13: Nuisances; Abatement

Overview: The city may, at licensee's expense, remove or cause to be removed all of its animal droppings or urine or both which are not removed as provided in sub section 4-1-10C of this chapter.

Title 5: Public Health and Safety

Chapter 1: Nuisance

Section 5-1-3: Nuisances Declared

Overview: It shall be unlawful for any person of any premises or Land where erosion, subsidence, surface water drainage problems, or stagnant water exists. (Ord. 99-202, 4-26-1999)

Chapter 2: Trash and Disposal Maintenance

Section 5-2-5: Prohibited Disposals

Overview: No commercial operation within the city shall place cardboard in any trash receptacle designated to be sent to landfill disposal site. No person shall put green waste in a trash receptacle deposited to a landfill. Green waste may be composted.

Chapter 3: Maintenance of Vacant Property

Section 5-3-2: Failure to Maintain Property

Overview: Person in violation if not following code of... Maintaining the soil in such a condition that any dust generated on the property escapes a boundary of the property during winds of 10 mph or less.

Title 7: Motor Vehicles and Traffic
Chapter 3: Stopping, Standing and Parking

Section 7-3-7: Prohibited Stopping, Standing or Parking

Overview: No person shall construct or repair or grease or dismantle any vehicle in any part of the public street unless for a temporary emergency.

Title 8: Public Ways and Property
Chapter 2: Street Construction and Excavations

Section 8-2-3: Permit Required; Exceptions

Overview: It is unlawful to excavate or fill within a street right of way or do improvements to sidewalk, curbs, gutters, of substructures without permits.

Section 8-2-3-1: Application for Permit

Overview: Contents include location, excavation, fill or obstruction and the facilities or substructures to be installed, repaired or removed. Required Plans per the city engineer's request shall show excavations, fill or obstructions on streets.

Section 8-2-3-5: Conditions of Permit

Overview: Permits shall be subject to conditions deemed necessary by the city engineer for the protection of streets.

Section 8-2-5: Standard Construction Details

Overview: The city has standard details including but not limited to drainage details.

Section 8-2-7: Work Performance

Overview: Permittee shall avoid inconvenience and annoyance to the general public. Appropriate measures shall be taken to reduce to the fullest extent practicable noise, dust, and debris. The permittee shall maintain all gutters free and unobstructed and provide waterway at all times.

Section 8-2-10: Impact on Public

Overview: Wherever trenching through lawn, area shall be reseeded where placing sod is impractical. Work shall be done to leave the lawn clean of earth and debris and shall not remove trees or shrubs unless first obtaining consent from the city engineer.

Section 8-2-11: Protection of Facilities

Overview: Without permits it is unlawful to work on existing facilities including pipelines and conduits and such utilities shall be protected during excavation and construction.

Article A: Excavations

Section 8-2A-2: Trenching, Care of Excavated Materials

Overview: All material excavated shall be maintained to not endanger workers. Whenever necessary to abate the dirt or dust nuisance, toe boards or bins may be required to prevent spreading of dirt to traffic lanes.

Chapter 3: Street and Sidewalk Obstructions**Section 8-3-2: Obstructions to Streets and Sidewalks**

Overview: No person shall place boxes, bales, barrels, wood, lumber, goods, wares and merchandise in a public street, way or sidewalk.

Section 8-3-8: Prohibited Acts and Conditions

Overview: No person shall clean, wash, or groom mats, material, produce or any other thing over public right of way. They shall not wash, push or blow from private property any material or refuse into public right of way. No person shall repair vehicles in public right of way, or wash, clean or grease a vehicle upon commercially zoned streets or city property.

Chapter 5: News racks**Section 8-5-5: Standards**

Overview: News racks shall be designed and constructed to prevent the release or escape of contained newspapers so as to avoid litter generation.

Chapter 7: Parking Districts**Section 8-7-4: Parking Lot Use Restrictions**

Overview: No person shall drop or throw any garbage, waste or refuse of any kind on any parking lot except in designated receptacles. No person shall cause or allow gasoline or other deleterious substance to be spilled or deposited on the surface of a parking lot.

Section 8-7-5: Enforcement

Overview: Violators subject to payment of expenses incurred in removing any litter and spillage.

Chapter 8: Trees**Section 8-8-6: Tree Protection**

Overview: No person shall locate material detrimental to city trees within the area of the tree and its roots or penetrate root barriers.

Title 9: Water and Sewer**Chapter 2: Sewer Code****Section 9-2-6: Use of Public Sewers Required**

Overview: It is unlawful to place or deposit human or animal excrement, garbage or other objectionable waste in an unsanitary manner upon public or private property. It is unlawful to discharge to a stream or watercourse any sewage or industrial waste or contaminated substance, except where suitable treatment has been provided. It is unlawful to have a septic tank, privy, privy vault, cesspool, seepage pit within the city.

Article A: Sewer Connections

Section 9-2A-2: Construction Requirements

Overview: All pipe joints shall be tight and waterproof.

Article C: Use of Public Sewers

Section 9-2C-1: Drainage into Sanitary Sewers Prohibited

Overview: No leaders from roofs and no surface drains for rainwater shall be connected to any sanitary sewer. No surface or subsurface drainage, rainwater, storm water, seepage, cooling water or unpolluted industrial process waters shall be permitted to enter any sanitary sewer.

Section 9-2C-3: Interceptors Required

Overview: Grease, oil and said interceptors shall be provided when in the opinion of the city inspector they are necessary.

Section 9-2C-5: Control Manholes

Overview: When required by the city, any property served by a sewer carrying industrial wastes shall install suitable control manholes to facilitate observation and testing, and sampling and measurement of wastes.

Section 9-2C-6: Measurements and Tests

Overview: All measurements, tests and analyses of the characteristics of water and wastes shall be determined in accordance with the standard methods.

Section 9-2C-8: Swimming Pools

Overview: It is unlawful to dispose of swimming pool water into a sanitary sewer.

Section 9-2C-9: Water Softening and Condition Equipment

Overview: No person shall allow water conditioning or softening equipment of any type to discharge its wastes into the city sewage system.

Article B: Water Use Regulations

Section 9-3B-2: Water Waste

Overview: No customer shall knowingly permit leaks or wastes of water.

Section 9-3B-7: Backflow Protection

Overview: Approved backflow protection devices must be inspected and tested periodically for water tightness by a certified technician.

Article D: Water Conservation Program

Section 9-3D-1: Water Waste Prohibited

Overview: Watering to the manner or extent that allows unreasonably excess water to run off, the washing of sidewalks and other hard surfaces by direct hosing and the escape of water through breaks or leaks that reasonably should have been discovered are prohibited.

Section 9-3D-2: Water Use During Drought or Emergencies

Overview: The City may incorporate regulations to water usage and conservation when drought or other emergencies call for such action.

Section 9-3D-3: Regulations During Drought Conditions

Overview: The City may incorporate regulations to water usage and conservation when drought or other emergencies call for such action.

Chapter 4: Cross-Connection Program

Section 9-4-6: Backflow Prevention Assembly Testing

Overview: Testing of backflow prevention devices shall be required by the city to verify tightness and no leaks are present. The city shall inform the private owner when testing shall occur.

Title 10: Building Regulations

Chapter 1: Building Codes

Article A: Administrative

Section 10-1A-8: Permits

Overview: Permits required for plumbing work and the stopping of leaks in drains, water, and oil, waste or vent pipes.

Section 10-1A-12: Inspections

Overview: Construction work for which a permit is required shall be subject to inspection by the building official.

Article E: Plumbing Code

Section 10-1E-2: Amendments

Overview: Commercial car washing facilities shall have water recycling-systems approved by the administrative authority.

Chapter 4: Building Permits and Regulations

Section 10-4-4: Improvements

Overview: Areas where lack of curbs result in poor drainage and accumulation of filth and waste matters is found and declared to be dangerous to the public health and safety of the inhabitants of the city.

Section 10-4-7: Flood Control Regulations

Overview: House elevations must be above flood elevation and mobile homes within the floodway are prohibited.

Section 10-4-10: Abatement of Hazardous Excavations

Overview: Every reservoir, pit, sump, hole, well and similar artificial structure or excavation shall be inspected and if found hazardous shall be corrected.

Chapter 5: Property Excavation and Grading**Section 10-5-1: Title and Purpose**

Overview: The purpose of this section is to control erosion and flood damage among other items to promote public welfare.

Section 10-5-4: Grading Permit

Overview: No person shall commence or perform any grading, excavation or fill without first obtaining a grading permit. Haul routes shall also be described in the grading permit.

Section 10-5-6: Responsibility for Site Maintenance

Overview: The permittee shall maintain all protective devices and temporary drainage during construction progress including dust control and methods of hauling. If at any time it is determined by the city engineer that material has been spilled upon city streets during the course of hauling from the site, the permittee shall remove the material and clean the streets.

Section 10-5-8: Standards and Specifications

Overview: No excavation shall be cut steeper than 1.5:1. All graded surfaces, materials, whether filled or excavated or stockpiled shall be wetted to prevent dust and spillage. If drainage is designed and maintained to direct into public streets, it shall be at a location approved by the city engineer or into natural or improved drainage channels. Exposed banks or slopes shall be smoothly finished and not exceed 25°. Down drains from terraces shall consist of pipes or paved channels. Exposed slopes over 3' shall be planted or protected to prevent erosion. Slopes may be required to be flatter should the city engineer believe the material is not suited for the maximum allowed. Fill shall be installed so that settlement, sliding, and erosion will not result in property damage. Soils placed shall be compacted and tested per current codes and standards.

Title 11: Zoning Regulations**Chapter 4: Development Standards****Section 11-4-3: Visual Resources**

Overview: Hillside development shall be designed in such a manner to provide for the planting of slopes with appropriate vegetation.

Section 11-4-4: Flood Hazards

Overview: The intent is to avoid exposing new developments to flood hazards and to reduce the need for future flood control protective works and resulting alteration of stream and wetland environments. All development including construction, excavation and grading, except for flood control projects are prohibited.

Section 11-4-7: Landscaped Areas

Overview: Landscaped areas shall be maintained and any removal of landscaped area shall be reviewed by the city's board of architectural review prior to the work being done.

Chapter 5: AG Agricultural District**Section 11-5-2: Permitted Uses**

Overview: The number of animals permitted for each 20,000 square feet upon which they are kept shall be one. Hog ranches, dairy farms and poultry ranches are not permitted.

Chapter 6: Residential Districts**Article A: R-1/E-1 Single Family Residential District****Section 11-6A-5: Additional Regulations**

Overview: Numbers of animals are limited per lots of varying sizes.

Article B: DR Design Residential District**Section 11-6B-1: Purpose and Intent**

Overview: The design of residential developments allow a wide range of densities and housing types while requiring the provisions of open space within new residential developments.

Section 11-6B-5: Additional Regulations

Overview: Open space and landscaping are required proportionally on lots being developed. Not less than 40% shall be devoted to both private and common open space.

Article C: PRD Planned Residential Development District**Section 11-6C-1: Purpose and Intent**

Overview: To provide desirable aesthetic and efficient use of space and to preserve significant natural, scenic and cultural resources of a site.

Section 11-6C-5: Lot Area Requirements

Overview: Not more than thirty percent of the net area of the property shall be covered by buildings containing dwelling units, and in no case shall the total building coverage exceed fifty percent of the net area of the property.

Section 11-6C-6: Additional Regulations

Overview: Streets shall be constructed with the drainage standards of the city and reduction of grading for streets is encouraged. Open space shall not be less than forty percent of the gross acreage in any case. Preservation and maintenance of all landscaping and common open space shall be performed as necessary.

Chapter 7: Commercial Districts**Article A: TRC Tourist Commercial District****Section 11-7A-5: Additional Regulations**

Overview: Storage areas for trash shall be enclosed. Discontinued Automobile Service Stations shall be landscaped.

Article B: C-2 Retail Commercial District

Section 11-7B-5: Additional Regulations

Overview: Storage of trash shall be enclosed, and for developments requiring a development plan, a landscaping plan shall be submitted and approved, installed and maintained.

Article C: C-3 General Commercial District

Section 11-7C-5: Additional Regulations

Overview: Storage of trash shall be enclosed, and for developments requiring a development plan, a landscaping plan shall be submitted and approved, installed and maintained.

Article D: PO Professional Office District

Section 11-7D-5: Lot Area Requirements

Overview: No more than forty percent of the net area of the property shall be covered with any portion of a building.

Section 11-7D-6: Additional Regulations

Overview: Storage of trash shall be enclosed, and for developments requiring a development plan, a landscaping plan shall be submitted and approved, installed and maintained.

Chapter 8: I Institutional District

Section 11-8-4: Lot Area Requirements

Overview: No more than forty percent of the net area of the property shall be covered with any portion of a building.

Section 11-8-5: Additional Regulations

Overview: Not less than ten percent of the net area of the property shall be landscaped and maintain per the development plan.

Chapter 9: M Light Industrial District

Section 11-9-3: Performance Standards

Overview: There shall be no smoke or dust generated by or resulting from any use, other than motor vehicles, located upon the lot.

Section 11-9-4: Lot Area Requirements

Overview: No more than fifty percent of the net area of the property shall be covered by buildings and structures.

Section 11-9-5: Additional Regulations

Overview: Not less than ten percent of the net lot area shall be landscaped in conformance with the approved development plan.

Chapter 10: Other Districts

Article A: REC Recreation District

Section 11-10A-4: Lot Area Requirements

Overview: Not to exceed twenty percent of the total net area shall be covered by buildings or structures.

Section 11-10A-5: Additional Regulations

Overview: Landscaping shall be installed and maintained in accordance with the approved development plan.

Article B: RES Resource Management District

Section 11-10B-1: Purpose and Intent

Overview: The purpose is to ensure protection of lands that are unsuited for intensive development such as areas with outstanding resource values, such as environmentally sensitive habitat areas and watershed areas.

Article C: MHP Mobile Home Park District

Section 11-10C-3: Lot Area Requirements

Overview: The area developed for a mobile home park shall be a minimum of one acre and shall not provide more than seven mobile homes on that gross acre.

Section 11-10C-4: Additional Regulations

Overview: A minimum of fifteen percent of the gross area of the mobile home park shall be in common open space.

Chapter 11: Off Street Parking and Loading

Section 11-11-4: Parking Space Size, Location and Design

Overview: All parking areas shall be graded and have drainage provided so as to dispose of all surface water without erosion, flooding, or any other inconvenience or hazard.

Section 11-11-5: Landscape/Screening of Parking Areas

Overview: Where trees already exist, the design of the parking area should make best of this growth and shade. Planting is to be used as screening for parking lots. When uncovered parking exceeds 3,600 square feet, trees, shrubbery, and ground cover shall be provided at suitable intervals in order to break up the continuity of the parking area.

Section 11-11-7: Required Number of Parking Spaces

Overview: The minimum number of parking spaces required per function is listed, and this number will control the amount of impervious surface area on a lot.

Chapter 12: Supplemental Regulations**Section 11-12-4: Second Residential Units**

Overview: Provides various areas allowed for a number of structures which will control the amount of impervious surface area on a lot.

Section 11-12-5: Home Occupations

Overview: No outdoor storage of materials related to the home occupation and no vehicles or trailers except that incidental to the residential use shall be kept on the premises.

Section 11-12-13: Energy Products and Facilities

Overview: No oil or gas drilling, exploratory or production shall be permitted.

Section 11-12-19: Landscape Plans

Overview: The planning/community development director shall review landscape plans and may approve or conditionally approve them. Landscaping shall be properly maintained.

Section 11-12-20: Pipelines

Overview: A revegetation and site restoration plan shall be prepared by the applicant which include provisions for restoration of any biologically important habitats which will be disturbed by construction or operational procedures. After backfill and compaction of trench, excess soil shall be disposed of in proper manner. During construction there shall be no permanent blocking of surface drainage. A pipeline corridor shall be sited so as to avoid significant impacts on aquatic habitats to the maximum extent feasible. The revegetation and restoration shall be inspected a year after completion to assess the effectiveness of the program.

Chapter 16: Permit Procedures**Section 11-16-1: Land Use Permits**

Overview: Land Use permit shall be required where there is potential to change or adversely affect an intermittent or perennial stream or regional watercourse.

Section 11-16-2: Conditional Use Permit

Overview: Handicraft industries shall not produce any dust that could leave the property except from the heating of the building.

Section 11-16-4: Development Plans

Overview: Provisions for adequate landscaping in proportion to the project and the site with due regard to preservation of trees and type of planting that will grow and be maintained. Parking lots shall be landscaped as well. All detail shall be provided in Landscape and Irrigation plans provided in the development plan.

Section 11-16-5: Specific Plans

Overview: Plans shall show geologic, seismic, flood and other hazards as well as the amount and location of open space.

Chapter 17: Administration and Enforcement**Section 11-17-1: Board of Architectural Review**

Overview: Provisions for adequate landscaping in proportion to the project and the site with due regard to preservation of trees and type of planting that will grow and be maintained.

Title 12: Subdivision Regulations**Chapter 3: Subdivision Procedures****Section 12-3-2: Tentative Maps**

Overview: Maps require lists of curb and gutter to be installed and proposed drainage and flood control easements including methods of controlling erosion.

Section 12-3-3: Form and Requirements of Tentative Map

Overview: Information regarding all existing watercourses and watercourses proposed into which storm waters are to be discharged shall be shown on the tentative map. Erosion control planting and structures with provision for the maintenance of planting and growth is established, as well as cut and fill slopes, and on-site and off-site drainage and drainage structures including underground pipelines necessary for protection and maintenance of streets and property shall be shown. Submission of a final grading plan shall also show slope control and drainage structures required. Prior to recordation of the final map complete plans showing grades, roads, culverts drainage ways, erosion control, etc., shall be submitted.

Chapter 4: Subdivision Maps**Section 12-4-2: Minor Subdivisions**

Overview: The location of all existing surface structures and subsurface structures including water wells, septic systems, oil wells and seepage pits shall be shown on lot split plats.

Chapter 6: Subdivision Standards and Principles**Section 12-6-10: Drainage**

Overview: Where necessary to obtain adequate drainage from a lot, setback distances may be require to be increased. Wherever feasible a lot shall drain toward the street.

Chapter 7: Special Treatment Areas**Section 12-7-1: Purpose**

Overview: The city recognizes many areas are subdivided or developed, such features as hillside terrain, special soil and geological conditions, highly combustible native vegetation and other conditions may cause one or more serious consequences such as increased fire,

flood and erosion hazards. Preserving natural slopes, existing trees and foliage shall be a principle of special treatment areas.

Section 12-7-5: Special Grading and Landscaping Provisions

Overview: Provisions intended to prevent flooding, creation of unsightly raw earth areas, erosion and stability problems, and to promote proper drainage. Examples of provisions are limits to grading areas, planting submittals, drainage to the front of lots, artificial drainage facilities installed, storm drains or gutter installation and regulation of months work can be conducted.

Chapter 8: Administration and Enforcement

Section 12-8-5: Flood Control

Overview: The city requires development of drainage systems in subdivisions to prevent flood and erosion problems.

Title 13: Flood Control

Chapter 1: Flood Plain Management

Section 13-1-2: Purpose

Overview: Flood plain management shall minimize damage to public facilities and utilities such as water, gas, and sewer as well as streets and bridges in areas of special flood hazard.

Section 13-1-9: Construction Standards

Overview: All new and replacement water supply and sanitary sewage systems shall be designed to minimize or eliminate infiltration of flood waters into the system and discharge from the system into flood waters. On-site waste disposal systems shall be located to avoid impairment to them during flooding.

Section 13-1-10: Floodways

Overview: No encroachments including fill and new construction shall be permitted in a floodway that could possibly carry debris or provide erosion potential.

Section 13-1-11: Variances

Overview: Be aware the danger in floodways sweeping materials and debris onto other lands.