

Storm Water Management Program

July 28, 2003

Submitted to:
Regional Water Quality Control Board
Central Valley Region
Sacramento Office (5S)

Submitted by:



Stantec



City of Manteca

STORM WATER MANAGEMENT PROGRAM

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**The
City of Manteca**



**CITY OF MANTECA
STORM WATER MANAGEMENT PROGRAM**

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GLOSSARY

BMP	Best Management Practice
HHW	Hazardous Household Waste
MCM	Minimum Control Measure
MEP	Maximum Extent Practicable
MIS	Management Information System
MSWMC	Manteca Storm Water Management Committee
PHF	Pesticides, Herbicides & Fertilizers
SIC	Standard Industry Classification
SJPIISWC	San Joaquin Phase II Storm Water Committee
SUSMP	Standard Urban Stormwater Management Plan
SWMP	Storm Water Management Program
NPDES	National Pollutant Discharge Elimination System
U.S.	United States
WDID	Waste Discharge Identification

DEFINITIONS

Structural BMP	Structural BMPs are facilities designed and constructed for the treatment of storm water with respect to quality and quantity. Examples of structural controls are vegetative strips, detention/water quality basins, and swirl separators.
Non-Structural BMP	Non structural BMPs are policies and procedures that manage land use in order to lessen the impacts of resource development and redevelopment on storm impacts on storm water quality and quantity.

CITY OF MANTECA
STORM WATER MANAGEMENT PROGRAM

PURPOSE

The Storm Water Management Program (SWMP) will be implemented to limit, to the Maximum Extent Practicable (MEP), the discharge of pollutants from the City of Manteca (CITY) storm sewer system. The development and implementation of the SWMP is to fulfill requirements of storm water discharges from Small Municipal Separate Storm Sewer System (MS4) operators in accordance with Section 402(p) of the Federal Clean Water Act (CWA). The SWMP was also developed to comply with General Permit Number CAS000004, Water Quality Order No. 2003-0005-DWQ.

PROGRAM AREA DESCRIPTION

The program limits are contiguous with the City which is located in San Joaquin County south of the City of Stockton in the Central Valley. The 2000 decennial census indicates the City had a population of 49,258. Due to treatment capacity at the sewage treatment plant future growth within the City is limited to 3.9% annually.

Storm drainage is conveyed via City storm drains and South San Joaquin Irrigation District (SSJID) laterals to the French Camp Outlet Canal at the western boundary of the City and ultimately the San Joaquin Delta. Due to capacity limits of SSJID facilities, most City storm water is metered via detention basins prior to discharge to these facilities.

SWMP COORDINATION

Entity	Contact
City of Manteca Public Works Department	Don Milam, Associate Civil Engineer
San Joaquin Phase II Storm Water Committee	Don Milam, Associate Civil Engineer
City of Manteca Street Department	Don Milam, Associate Civil Engineer

LEAD ENTITIES

Public Works: The Department of Public Works will lead in the day-to-day activities and administration of the SWMP, with assistance from other entities as described in this SWMP. The contact phone and address for Manteca Public Works Department is:

1001 West Center Street
Manteca, CA 95337
(209) 239-8460

San Joaquin Phase II Storm Water Committee: The San Joaquin Phase II Storm Water Committee (SJPIISWC) is a consortium of phase II municipalities within San Joaquin County that are proposed to join together to promote consistency with individual SWMPs, and share the cost of implementing associated BMPs.

Street Department: The City Street Department is responsible for the sweeping of streets within the City.

SWMP REVIEW AND MODIFICATION

The City has prepared this SWMP to meet the requirements for coverage under General Permit Number CAS000004, Water Quality Order No. 2003-0005-DWQ issued April 30, 2003. The draft SWMP was prepared by March 10, 2003 to meet the federal NPDES permit obligations. This SWMP includes Best Management Practices (BMPs) intended to reduce to the MEP, the quantity of storm water and the discharge of pollutants to the storm water system. The SWMP will be reviewed on an annual basis and any changes or modifications will be described and submitted to California State Regional Water Quality Control Board Central Valley Region (5S). This review will include the following:

- A review of the status of program implementation and compliance
- A review of any revision or change of BMPs during the year and an assessment of the effectiveness of such revision
- An overall assessment of the goals and direction of the SWMP and effectiveness of BMPs
- A review of monitoring data, any changes in monitoring methods and parameters, and an assessment of the overall monitoring program.

MANAGEMENT AND OVERSIGHT FUNDING SOURCES

Management and oversight of the SWMP is funded primarily through the City's Storm Drain Fund.

PROGRAM BENEFITS

Clean water is a desirable and beneficial resource of the City. Clean water is necessary to maintain recreational activities, habitat preservation, and City aesthetics. Storm water quality is suspected to be a contributing source of unnecessary pollutant loading into receiving waters. If not addressed, storm water pollutants may negatively impact the City and its resources.

Through effective implementation of the SWMP, the City believes pollutant loading will be reduced to the MEP and receiving waters will be cleaner. Clean water will enhance the quality of life by improving and reducing potential risks associated with water quality.

PROGRAM SUMMARY

The SWMP has been developed to meet the terms of General Permit Number CAS000004, Water Quality Order No. 2003-0005-DWQ issued April 30, 2003 and consists of the six minimum control measures (MCM) established by SWRCB for Phase II storm water discharges. Implementation of these MCMs are expected to result in significant reductions of pollutants discharged into receiving water bodies. The six MCMs are addressed in separate sections.

Each MCM contains BMPs necessary for proper storm water management. The BMPs contain specific tasks to meet the objective of that MCM. A total of 44 BMPs are contained in this SWMP and will be completed by the end of the permit term unless they are deemed inappropriate as a part of SWMP review. This SWMP is intended to be a living document with BMPs added and deleted as new management practices arise and management practices are found not to be effective. A schedule for implementing, and assessing each BMP is provided at the end of each section, also the responsible entity and responsible contact are identified. The Program Implementation Schedules are also summarized on Figure 1. The following provides a summary of each MCM:

Section One – Public Education and Outreach on Storm Water Impacts Program

This MCM is intended to ensure greater public support for the SWMP and greater compliance through education. An informed public can significantly contribute to the success of the program.

In general, the City is emphasizing education in the SWMP because it is a cost-effective BMP and is proactive in trying to reduce storm water pollutants rather than reactive by treating the storm water pollutants. The BMPs in this section include:

- Regional and Community programs
- Business programs
- School programs

Section Two – Public Involvement/Participation Program

This MCM is intended to provide opportunities for the public to play an active role in both the development and implementation of the SWMP. An active community is important to the success of the program. The BMPs in this section not only serve to involve the public, but also function to educate the public on the SWMP and regulations. The BMPs in this section include:

City of Manteca Storm Water Management Program Implementation Schedule

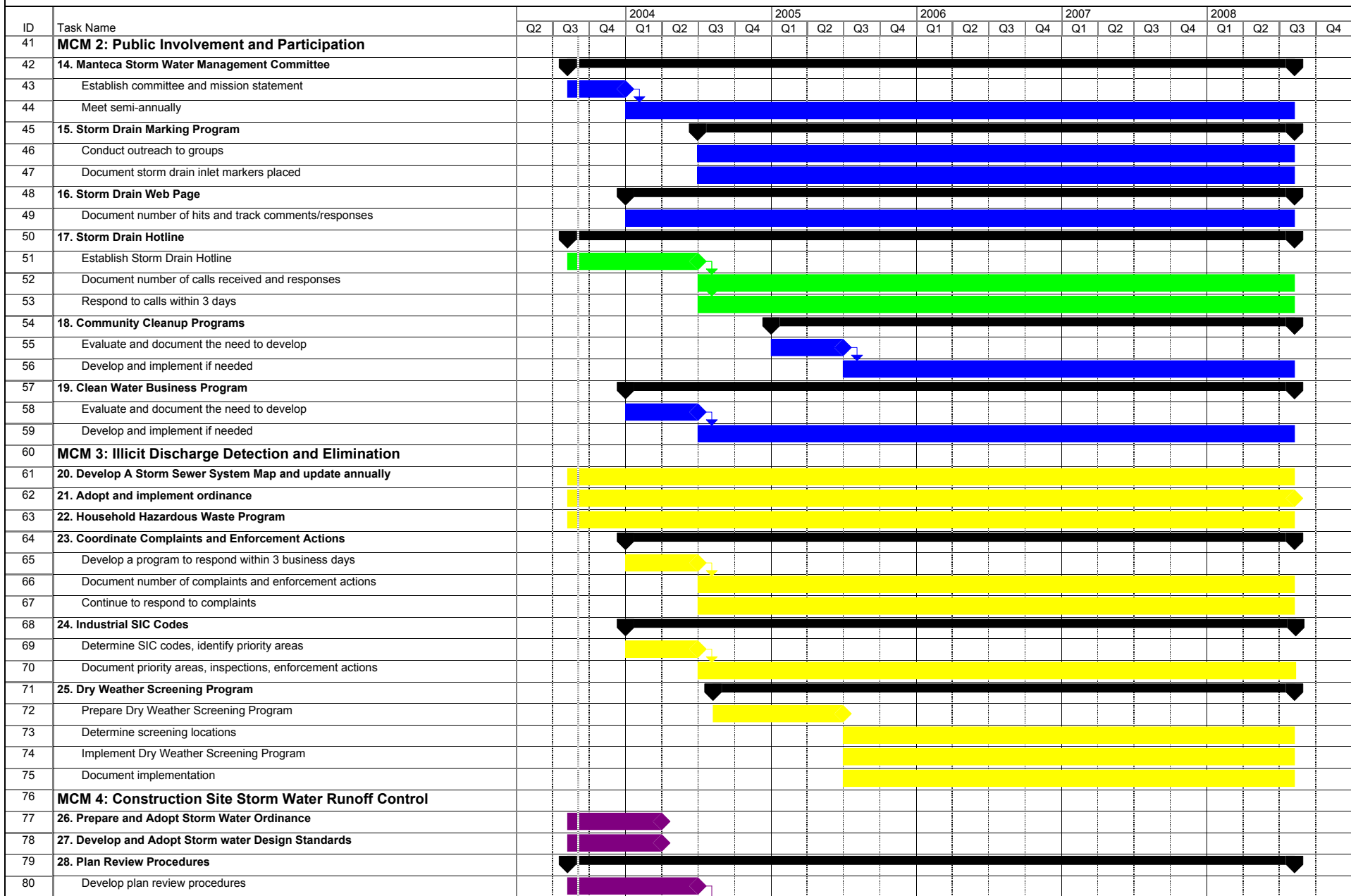
ID	Task Name	2004				2005				2006				2007				2008						
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
1	MCM 1: Public Education and Outreach																							
2	1. Form Partnership with SJPIISWC																							
3	2. Create and Implement 5th Grade School Curriculum																							
4	Prepare and/or acquire educational materials																							
5	Target 50% of 5th grade classes annually																							
6	3. Citizen Outreach: Utility Bill Newsletter																							
7	Prepare newsletter and distribute semi-annually																							
8	Document materials distributed																							
9	4. Citizen Outreach: Media and Materials																							
10	Achieve 50,000 impressions first round																							
11	Achieve 100,000 impressions annually																							
12	5. Citizen Outreach: Materials																							
13	Select and prepare materials																							
14	Make materials available																							
15	6. Business Outreach																							
16	Develop priority list of businesses																							
17	Prepare priority business materials for distribution																							
18	Conduct outreach twice during permit term																							
19	7. Storm Drain Web Page																							
20	Document number of page hits																							
21	Assess web site and update as necessary																							
22	8. Storm Drain Marking Program																							
23	Inventory existing markers																							
24	Mark 25% of existing storm drain inlets annually																							
25	Construction plans will require s.d. markers																							
26	9. Storm Drain Hotline																							
27	Establish Storm Drain Hotline																							
28	Document number of calls received and responses																							
29	Respond to calls within 3 days																							
30	10. Manteca Storm Water Management Committee																							
31	Establish committee and mission statement																							
32	Meet semi-annually																							
33	11. Information Booths																							
34	Prepare booth displays and materials. Select venues.																							
35	Document and identify events, brochures, visitors																							
36	12. Storm Water Funding Mechanism																							
37	Develop and adopt management ordinance																							
38	Seek voter approval of fee																							
39	Adopt fee																							
40	13. Public Knowledge Survey																							

Project: manteca impl_july
Date: Tue 9/2/03

Task		Progress		Summary		External Tasks		Deadline	
Split		Milestone		Project Summary		External Milestone			

Figure 1

City of Manteca Storm Water Management Program Implementation Schedule



Project: manteca impl_july Date: Tue 9/2/03	Task		Progress		Summary		External Tasks		Deadline	
	Split		Milestone		Project Summary		External Milestone			

Figure 1

City of Manteca Storm Water Management Program Implementation Schedule

ID	Task Name	2004				2005				2006				2007				2008						
		Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
81	Document number of plans reviewed																							
82	29. Inspector Training																							
83	Document semi-annual training																							
84	30. Owner / Contractor Education																							
85	Distribute standards and conduct training annually																							
86	31. Construction Site Inspection Program																							
87	Conduct monthly inspections. Follow up.																							
88	Document violations, corrections, enforcement																							
89	32. Owner/Contractor Notification																							
90	33. Complaint Reporting and Review																							
91	Develop complaint reporting system																							
92	Document complaints. Respond within 3 working days.																							
93	MCM 5: Post Construction Storm Water Management in New Development and Redevelopment																							
94	34. Develop Post-Construction Ordinance																							
95	Adopt Post-Construction Ordinance																							
96	Require development standards during planning																							
97	Address funding for long term maintenance																							
98	35. Develop Post-Construction Development Standards																							
99	Adopt Post-Construction Development Standards																							
100	Implement Post Construction Development Standards																							
101	36. Comprehensive Land Use Master Plan																							
102	MCM 6: Pollution Prevention and Good Housekeeping Practices																							
103	37. Municipal Training																							
104	Develop training program																							
105	Provide and document training semi-annually																							
106	38. Storm Sewer System Maintenance and Floatable Controls																							
107	Develop MS4 clean out schedule																							
108	Implement and document maintenance																							
109	39. PHF Program																							
110	40. Spill Prevention and Response Program																							
111	41. Water Quality Assessment Program of City Flood Control Projects																							
112	Develop Water Quality Assessment Program																							
113	Implement and document Water Quality Assessment Program																							
114	42. Street Sweeping Program																							
115	43. Implement Maintenance Yard Haz. Materials Plan																							
116	44. Green Waste Program																							

Project: manteca impl_july
Date: Tue 9/2/03

Task		Progress		Summary		External Tasks		Deadline
Split		Milestone		Project Summary		External Milestone		

Figure 1

- Public involvement
- Public participation
- Community feedback

Section Three – Illicit Discharge Detection and Elimination Program

This MCM is intended to minimize illicit discharges into the storm sewer system. Illicit discharges are discharges that are not composed entirely of storm water. Storm sewer systems are not designed to accept process or discharges such as non-storm water wastes. Minimizing these discharges can help to prevent high levels of pollutants from entering receiving waters. The BMPs in this section include:

- Storm sewer system map
- Storm Water Ordinance
- Dry weather screening program
- Public information program

Section Four – Construction Site Storm Water Runoff Control Program

This MCM is intended to minimize polluted storm water runoff from construction activities. Construction activities can contribute significant levels of sediment to storm water runoff if erosion and sediment controls are not implemented. The BMPs in this section include:

- Erosion and sediment control ordinance
- Program development
- Implementation

Section Five – Post-Construction Storm Water Management in New Development and Redevelopment Program

This MCM is intended to minimize the impact to storm water quality caused by development and redevelopment. The increase in impervious areas caused by development can cause an increase in the type and quantity of pollutants in storm water runoff. Prior planning and design to minimize pollutants in runoff from these areas is an important component to storm water quality management. The BMPs in this section include:

- Ordinance development and adoption
- Development standards
- Program development
- Post-construction implementation
- Post-construction maintenance

Section Six – Pollution Prevention/Good Housekeeping for Municipal Operations Program

This MCM is intended to ensure a reduction in the amount and type of storm water pollutants by establishing routine activities in the operation and maintenance of municipal operations that address storm water runoff. Setting particular guidelines for source controls and materials management is an important component to storm water quality management. The BMPs in this section include:

- Source reduction
- Materials management

SECTION ONE

PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS PROGRAM

The Public Education and Outreach on Storm Water Impacts Program of the SWMP addresses increasing public and professional awareness of water quality concerns and BMPs that may be implemented with respect to protection of storm water. The BMPs described in this section of the SWMP include education of the public sector through the use of newsletters and displays. The public education will introduce the SWMP and focus on known contaminant sources and how to control these sources.

This program also integrates many other facets of the SWMP to provide information and up-to-date BMPs to the end user. The following BMPs describe implementation tasks and assessment tasks to be completed by the City for the Public Education and Outreach on Storm Water Impacts Program.

Objective: Reduce pollutants to receiving waters by increased public awareness of problems and implementation of solutions.

Permit Requirement: D.2.a. – Public Education and Outreach on Storm Water Impacts

Description of BMPs:

Local and Regional Groups: Develop a local group consisting of targeted audiences to be called the Manteca Storm Water Management Committee to address the development and implementation of BMPs. Participate with the San Joaquin Phase II Storm Water Committee to share resources in the development and implementation of BMPs.

School Curriculum: Create and implement in coordination with the Manteca Unified School District an educational program targeting 50% of 5th grade classes annually regarding storm water.

Newsletter in Utility Bill: Develop a semi-annual newsletter intended to provide information to the public regarding the impacts of their activities on storm water quality and ultimately the receiving waters. The newsletter will also instruct the public how to access the City's website to obtain more information. The newsletter will be sent with the utility bills. The newsletter may include a questionnaire aimed at ascertaining the community's knowledge of the impacts of pollutants in storm water to receiving waters. Based upon the results obtained from the questionnaire the Public Education and Outreach Program along with the Public Involvement and Participation Program will be modified to increase public awareness of storm water quality concerns.

Educational Materials: Provide, in conjunction with the SJPIISWC, the public with educational materials, displays, newsletters, utility bill inserts, and outreach activities regarding the impact of daily activities on storm water quality. The types of media and timing for distribution are discussed with the community so that the public can be targeted during the spring and the fall. Other factors that are taken into consideration in choosing the types of media are the average number of times that a person will see the advertisement. Examples of the types of educational materials that may be developed are:

Television commercials	Pencils and pads of papers
Radio commercials	Posters
Newspaper advertisements	Magnets
Activity books	Tabloids

Business Outreach: A business outreach program will be implemented to help businesses reduce the amount of pollutants entering the storm drain system. A list of priority businesses to target (e.g., auto body shops, manufacturers, restaurants, pool maintenance contractors, etc.) will be developed. Business-specific materials will be developed or obtained by the City for distribution. Business outreach will be conducted twice during the permit term.

Storm Water Web Page: Develop, advertise and maintain in coordination with the SJPIISWC a web page on the City's existing web site to educate the public on storm water issues. The page will address illicit discharges, provide the Storm Drain Hotline phone number, have a questionnaire to challenge the public about storm water. The website will be assessed quarterly and updated as necessary.

Storm Drain Markers: The City will complete an inventory of storm drain inlets to determine those that have existing markers and those that require markers to be installed. The City will mark 25% of the storm drain inlets annually. The City will also require that new and redevelopment projects mark storm drain inlets.

Storm Drain Hotline: Create and advertise a Storm Drain Hotline to receive comments so the public may report illicit discharges such as the dumping of used motor oil into storm drains. The City will respond to reports within 3 business days.

Manteca Storm Water Committee: Form the Manteca Storm Water Committee (MSWMC) based upon the initial stakeholders group. The MSWMC will meet twice a year to have input in the ongoing development and implementation of the SWMP.

Information Booths/Earth Day: Create a display regarding storm water information for use at the City. Information and materials specific to City needs will be utilized for this display.

Coordinate with Manteca Storm Water Management Committee and the San Joaquin Phase II Storm Water Committee to participate in the City Earth Day, the Pumpkin Faire and other events or City offices as applicable with an information booth. The booth display includes a graphic panel illustrating the hydrologic cycle in an urban setting and is accompanied by a series of pamphlets or other educational materials that explain how the public can help reduce the potential for pollutant exposure to rainfall.

Storm Water Management Funding Mechanism: The City of Manteca will develop a Storm Water Management funding mechanism such as a storm water utility.

Public Knowledge Survey: The City of Manteca will conduct a public knowledge survey to determine the existing public perception with respect to storm water quality. The survey will address such items as whether storm water is treated, car washing practices, fertilizer practices, etc.

Goals and Assessment: The table below represents measurable goals for the BMPs to be implemented and assessed during the permit term. The purpose of measurable goals is to gauge permit compliance and program effectiveness following the schedule identified.

PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS PROGRAM

BMP #	BMP	Measurable Goal	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
1	Form Partnership with the San Joaquin Phase II Storm Water Committee (SJPIISWC)	Adopt MOU or other agreement	6/04	SJPIISWC/ Storm Drain Fund	Don Milam
2	Create and Implement School Curriculum for 5th grade students	Prepare or acquire educational materials	6/04 ¹	SJPIISWC/ Storm Drain Fund	Don Milam
		Target 50% of 5 th grade classes annually	6/05 ¹		
3	Citizen Outreach: Utility Bill Newsletter	Prepare newsletter and distribute semi-annually	10/03	SJPIISWC/ Storm Drain Fund	Don Milam
		Document materials distributed	10/03 ¹		
4	Citizen Outreach: Media and Materials (TV, radio, other advertisements)	50,000 media impressions in first round and 100,000 media impressions per year thereafter	6/05 ¹	SJPIISWC/ Storm Drain Fund	Don Milam

SECTION ONE
PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS PROGRAM

BMP #	BMP	Measurable Goal	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
5	Citizen Outreach: Materials (activity books, pencils, paper, posters, etc)	Select and prepare materials. Make available at relevant City offices and during applicable festivals and events	7/04 ¹	SJPIISWC/ Storm Drain Fund	Don Milam
6	Business Outreach	Develop priority list of businesses to target	12/03	SJPIISWC/ Storm Drain Fund	Don Milam
		Prepare business-specific materials for outreach	6/04		
		Conduct outreach twice during the permit term	6/05 6/07		
7	Develop, Advertise and Maintain Storm Water Web Page	Document number of page hits	12/03 ¹	SJPIISWC/ Storm Drain Fund	Don Milam
		Assess web site quarterly and update as necessary	3/04 ¹		
8	Storm Drain Marking program	Inventory existing markers and document number of new drains marked	12/03	Public Works/ Storm Drain Fund	Don Milam Dennis Reis
		25% of the existing storm drain inlets requiring markers will be marked annually	12/04 ¹		
		Construction plans will require new and redevelopment to mark all storm drains	12/03 ¹		
9	Storm Drain Hotline	Establish storm drain hotline	6/04	Public Works/ Storm Drain Fund	Don Milam
		Document number of calls received and responses	6/04 ¹		
		Respond to calls within 3 business days	6/04 ¹		

SECTION ONE
PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS PROGRAM

BMP #	BMP	Measurable Goal	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
10	Form the Manteca Storm Water Management Committee (MSWMC)	Establish committee and mission statement	12/03	Public Works/ Storm Drain Fund	Don Milam
		Meet twice annually to address issues associated with ongoing development and implementation of the SWMP	3/04 ¹		
11	Information Booth at festivals, events and relevant city offices	Prepare booth displays and materials. Select appropriate venues.	6/04	SJPIISWC/ Storm Drain Fund	Don Milam
		Document and identify number events, number of brochures distributed, estimate number of visitors.	6/04 ¹		
12	Develop Storm Water Management Funding Mechanism	Develop and adopt management ordinance	6/04	Public Works/ Storm Drain Fund	Don Milam
		Seek voter approval of fee	12/05		
		Adopt fee	6/06		
13	Public Knowledge Survey	Prepare and conduct a survey to determine public knowledge of storm water	6/05	Public Works/ Storm Drain Fund	Don Milam

¹ The date indicated represents the first completion date of an ongoing BMP

SECTION TWO

PUBLIC INVOLVEMENT/PARTICIPATION PROGRAM

The Public Involvement/Participation Program section of the SWMP addresses the importance of public involvement with respect to protection of storm water. Community participation provides for broader public support, shorter implementation schedules, a broader base of expertise and the development of important relationships with other community and government programs. The BMPs described in this section of the SWMP include opportunities for the public to play an active role in the development and implementation of the SWMP. Such opportunities include the public notice process and efforts to reach out and engage all economic and ethnic groups, and additional community programs to foster public input.

This program will be integrated with the Public Education and Outreach Program to incorporate education with hands-on programs. The following BMPs describe implementation tasks and assessment tasks to be completed by the City for the Public Education Involvement/Participation Program.

The City of Manteca held public meetings in the process of developing the SWMP. Additionally, a public notification process will be followed prior to final approval of the SWMP by the Regional Water Quality Control Board Executive Officer.

Objective: Involve the public in the development and implementation of the SWMP.

Permit Requirement: D.2.b. – Public Involvement/Participation

Description of BMPs:

Manteca Storm Water Management Committee: The MSWMC will be a vehicle to provide input in the ongoing development and implementation of the SWMP. This will include involvement in the creation of ordinances, standards, and community programs.

Storm Drain Markers: The City will conduct outreach to groups that may be interested in marking storm drain inlets. Examples of groups that may be interested are boy scouts, schools groups, etc. The City will provide such groups with a map of the inlets to be marked and supplies. The City will document the number of storm drain markers that are placed.

Storm Water Website: The City will create a storm water page on the City website. The storm water page will provide the current copy of the SWMP, identify educational materials

outreach programs, requirements under the State’s General Construction Permit, and provide contact information.

Storm Drain Hotline: Create and advertise a Storm Drain Hotline to receive comments so the public may report illicit discharges such as the dumping of used motor oil into storm drains. The City will respond to reports within 3 business days.

Community Involvement Program: The City will evaluate the cost and need to develop and implement other community involvement programs to enlist the services of parties such as school groups and the Boy Scouts to participate in activities such as marking existing storm drains, and “Clean the Detention Basin Day”, dry weather screening and monitoring, and the reporting of illicit dumping. The purpose of these activities is to not only educate the community on the function of the storm drain system and pollutants that should not be introduced into it, the SWMP, and associated regulations, but through involvement induce a sense of ownership and consequently a respect of the quality storm water.

Clean Water Business Partnership: The City will evaluate the cost and need to develop and implement a program that targets selected business to insure that they dispose of pollutants in a fashion that does not increase the degradation of water quality in surface waters. Targeted businesses could include car detail shops, dry cleaners, and carpet cleaner operations.

Goals and Assessment: The table below represents measurable goals for the BMPs to be implemented and assessed during the permit term. The purpose of measurable goals is to gauge permit compliance and program effectiveness following the schedule identified.

PUBLIC INVOLVEMENT/PARTICIPATION

BMP #	BMP	Measurable Goal	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
14	Form the MSWMC	Establish committee and mission statement	12/03	Public Works/ Storm Drain Fund	Don Milam
		Meet twice annually to address issues associated with ongoing development and implementation of the SWMP	3/04 ¹		

BMP #	BMP	Measurable Goal	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
15	Storm Drain Marking	Conduct outreach to groups that may be interested in marking storm drains (boy scouts, school groups, etc)	12/04 ¹	Public Works/ Storm Drain Fund	Don Milam
		Document number of storm drain inlet markers that are placed	12/04 ¹		
16	Storm Water Website	Document number of hits to site and track comments/responses	12/03 ¹	Public Works/ Storm Drain Fund	Don Milam
17	Storm Drain Hotline	Establish storm drain hotline	6/04	Public Works/ Storm Drain Fund	Don Milam
		Document number of calls received and responses	6/04 ¹		
		Respond to calls within 3 business days	6/04 ¹		
18	Community Cleanup Programs	Evaluate and document the cost and the need to develop and implement community involvement programs such as: "Clean the Curb Day", "Clean the Basin Day", Adopt a Basin Program"	6/05	Public Works/ Storm Drain Fund	Don Milam
		Develop and implement a community involvement program if needed	6/06 ¹		

BMP #	BMP	Measurable Goal	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
19	Clean Water Business Program	Evaluate and document the cost and the need to develop and implement a Clean Water Business Partner program where business would volunteer to assist in safe disposal practices	6/04	Public Works/ Storm Drain Fund	Don Milam
		Develop and implement a clean water business program if needed	6/05 ¹		

¹The date indicated represents the first completion date of an ongoing BMP

SECTION THREE

ILLCIT DISCHARGE AND ELIMINATION PROGRAM

The Illicit Discharge and Elimination Program section of the SWMP addresses non-storm water flows that are discharged to receiving waters via storm water conveyance systems. The program will implement BMPs to assist in the identification of illicit discharges and removal of these discharges from the system. This program will also focus on prevention of new illicit discharges to the storm water system by means of education, regulations, and through spill prevention and response.

This program will also be integrated with the Public Education and Outreach program to promote awareness of the importance of protecting the storm water system from illicit discharge and the resultant impact to receiving waters. The following BMPs describe implementation tasks and assessment tasks to be completed by the City for the Illicit Discharge and Elimination Program.

Objective: Detect and eliminate illicit discharges to the storm sewer system.

Permit Requirement: D.2.c. – Illicit Discharge Detection and Elimination

Description of BMPs:

Storm Sewer System Map: Maintain a current map that identifies the City's storm sewer system, (see figure 2). The map will be updated annually. The purpose of the storm sewer map is to provide accurate location information to City personnel implementing the Illicit Discharge detection and Elimination Program. This includes identifying the location of watersheds, associated outfalls, and waters of the U.S. that receive discharges from those outfalls. This document will allow City personnel to better determine the source of pollutants contained in storm water.

Ordinance: Existing ordinances will be enhanced or some other regulatory mechanism will be developed to prohibit non-storm water discharges to the storm sewer system. The ordinance will include provisions for enforcement of the program.

Household Hazardous Waste Program: This program includes the pickup of used oil in residential areas. Other household hazardous wastes (HHW) such as anti-freeze, batteries, oil, paint can be dropped off at the San Joaquin County HHW collection facility at the Stockton Airport.

Public Reporting: The City will maintain an After Hours Emergency phone number to central dispatch for a complaint reporting system. If a call comes in regarding a complaint

CITY OF MANTECA STORM WATER MANAGEMENT PROGRAM (SWMP) STORM SEWER SYSTEM MAP

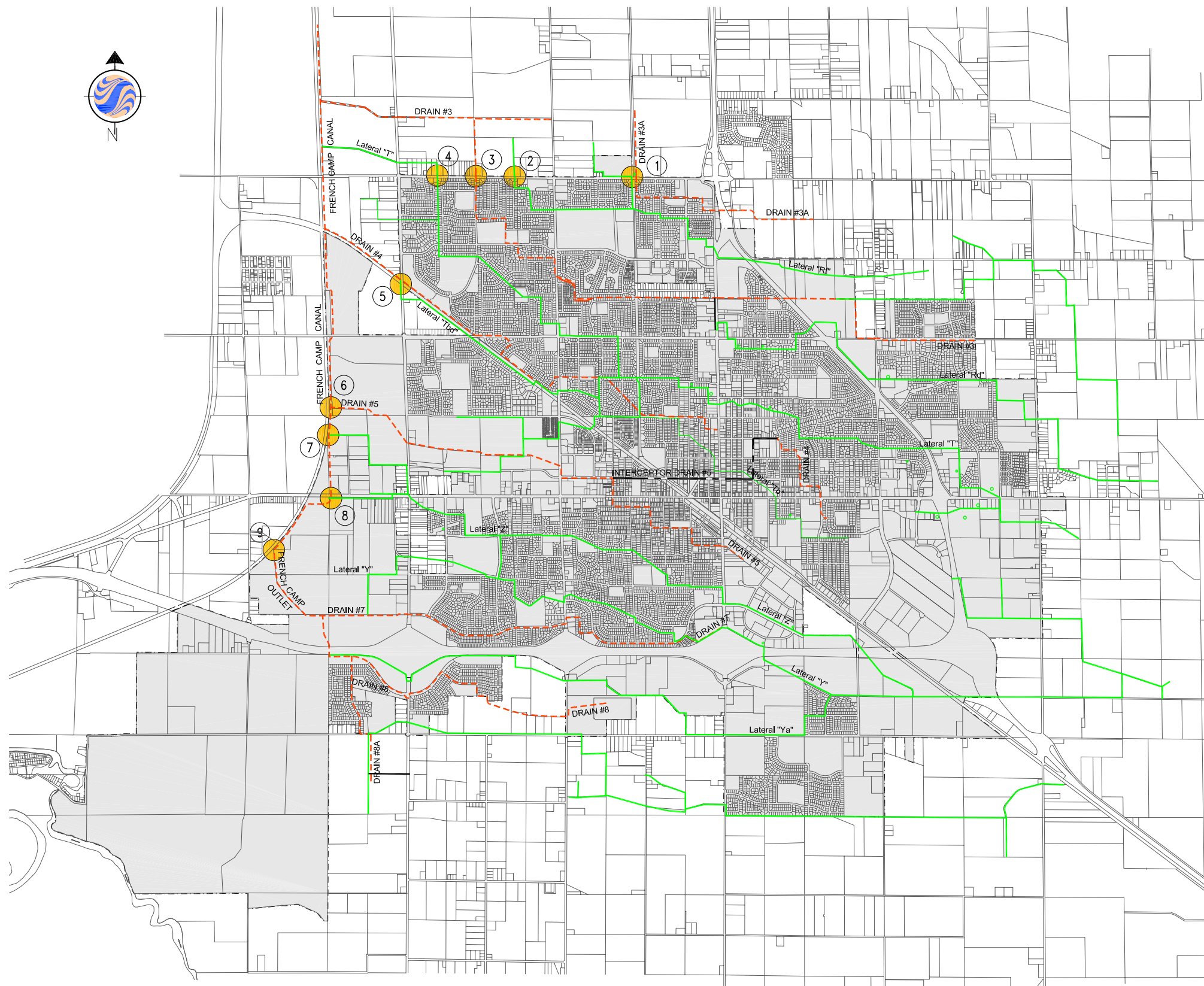
FIGURE 2

PREPARED BY:



LEGEND

PROGRAM BOUNDARIES	
LATERALS	
DRAINS	
DISCHARGE POINTS	
LATERAL <RF>	①
LATERAL <RF>	②
DRAIN #3	③
LATERAL <T>	④
DRAIN #4	⑤
FRENCH CAMP OUTLET	⑥
FRENCH CAMP OUTLET	⑦
FRENCH CAMP OUTLET	⑧
FRENCH CAMP OUTLET	⑨



associated with the storm sewer system, the proper City personnel are notified to investigate the complaint. The phone number will be advertised on the storm water web page.

SIC Codes: The City will use existing databases to determine the SIC codes for all industries within the City. The City will use this information, in conjunction with the storm sewer system map, to assist in the identification of possible locations of non-storm water discharges.

Dry Weather Screening: The City will develop and implement a Dry Weather Screening Program to detect and address non-storm water discharges to the storm sewer system.

Excluded Discharges: The following non storm water discharges are allowed under the SWMP:

- a. Water line flushing
- b. Landscape irrigation that is not reclaimed treated wastewater
- c. Diverted stream flows
- d. Rising ground waters
- e. Uncontaminated ground water infiltration (as defined at 40 CFR § 35.2005.(20)).
- f. Uncontaminated pumped ground water
- g. Discharges from potable water sources
- h. Foundation drains
- i. Air conditioning condensation
- j. Irrigation water that is not reclaimed treated wastewater
- k. Springs
- l. Water from crawl space pumps
- m. Footing drains
- n. Lawn watering that is not reclaimed treated wastewater
- o. Individual residential car washing
- p. Flows from riparian habitats and wetlands
- q. Dechlorinated swimming pool discharges
- r. Fire fighting flows

Goals and Assessment: The table below represents measurable goals for the BMPs to be implemented and assessed during the permit term. The purpose of measurable goals is to gauge permit compliance and program effectiveness following the schedule identified.

ILLICIT DISCHARGE AND ELIMINATION

BMP #	BMP	Measurable Goals	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
20	Storm Sewer System Map that identifies all watersheds, outfalls and receiving waters	Develop and annually update	6/04 ¹	Public Works/ Storm Drain Fund	Don Milam
21	Develop or enhance existing ordinances to prohibit non-storm water discharges. Establish and enforce penalties	Adopt and implement ordinance	3/04 ¹	Public Works/ Storm Drain Fund	Don Milam
22	Used Motor Vehicle Fluids/ Household Hazardous Waste Materials	Continue to pick up used oil	6/03 ¹	Public Works/ Solid Waste Funds	Rexie LaStrange
		Advertise HHW drop off locale	6/03 ¹		
		Promote program on website	6/03 ¹		
		Document materials and volumes collected	6/03 ¹		
23	Coordinate Complaints and Enforcement Actions	Develop a program to respond within 3 business days	6/04	Public Works/ Storm Drain Fund	Don Milam
		Document the number of complaints and enforcement actions	6/04 ¹		
		Continue to respond to complaints about the storm sewer system via the After Hours Emergency number	6/04 ¹		
24	Industrial SIC Codes	Determine the SIC codes of industries within the City and their Industrial permitting obligation, identify priority areas for training and enforcement	6/04 ¹	Public Works/ Storm Drain Fund	Don Milam
		Document high priority areas on storm drain map document number of inspections and enforcement actions	6/04 ¹		

SECTION THREE
ILLICIT DISCHARGES AND ELIMINATION PROGRAM

BMP #	BMP	Measurable Goals	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
25	Dry Weather Screening Program	Prepare a program to screen outfalls within the City for dry weather flows	6/05	Public Works/ Storm Drain Fund	Don Milam
		Determine screening locations using prioritization from SIC codes and land use map	6/05		
		Implement program on a monthly basis during dry weather	6/05 ¹		
		Track results with storm sewer system map. Document number of screening locations, inspections, pollutants discovered, and efforts undertaken to establish possible pollutant sources.	6/05 ¹		

¹ The date indicated represents the first completion date of an ongoing BMP

SECTION FOUR

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL PROGRAM

The Construction Site Storm Water Runoff Control Program section of the SWMP addresses water quality concerns for construction activities resulting in a land disturbance greater than or equal to one acre. Polluted storm water runoff from construction sites often flow to storm sewers and into receiving waters. This runoff can contribute more sediment to receiving waters than can be deposited naturally during several decades. The resulting situation can cause physical, chemical and biological harm to receiving waters. The BMPs described in this section of the SWMP includes the development of a construction site program designed to reduce pollutants in storm water runoff from construction activities. This program will include procedures for construction site plan review, site inspections, public reporting, and notification of specific requirements to all construction site owners and contractors on projects greater than or equal to one acre, and sites less than one acre if part of a larger development or common plan.

This program will also be integrated with other facets of the SWMP to provide information and up-to-date BMPs to the end user. The following BMPs describe implementation tasks and assessment tasks to be completed by the City for the Construction Site Storm Water Runoff Control Program.

Objective: Reduce pollutants in storm water runoff from construction sites

Permit Requirement: D.2.d. – Construction Site Storm Water Runoff Control

Description of BMPs:

Storm Water Ordinance: The City will adopt a Storm Water Ordinance to address the regulatory programs required under Phase II of the NPDES Storm Water Program, including Construction Site Runoff Control. This ordinance will include provisions to address both erosion/sediment control and construction site materials and wastes for sites disturbing one acre or more. The ordinance will also allow for compensatory actions to ensure compliance and site stabilization.

Construction Site BMPs: The City will utilize its Improvement and Construction Standards to require construction site runoff control measures and to specify installation and maintenance requirements for those measures. The City may review technical guidance proposed by the County of San Joaquin for construction site BMPs and adopt as appropriate.

Storm Water Plan Review Procedures: The standards will specify submittal requirements to ensure adequate information is provided for plan review staff. The standards will provide technical guidance to project owners and contractors to ensure compliance with the program, as well as a regulatory basis on which to condition approval of projects. Manteca will require either a Waste Discharge Identification (WDID) number on the plans or a copy of the submitted Notice of Intent.

Training of Public Works Inspection Personnel: City Public Works inspection personnel will be educated on the storm water regulations and the requirements for storm water controls at construction sites two times a year. The training will include information on specific BMPs and new storm water regulations.

Owner/Contractor Education: Information will be provided to owners and contractors regarding storm water controls for construction sites. The standards will be distributed and workshops will be conducted annually. The California Storm Water Quality Association Storm Water Best Management Practices Handbook for Construction Activity contains guidance for the implementation of BMPs. The City will provide contractors with information on how to access the document.

Construction Site Implementation Program: The City will implement the construction site program with field inspectors and enforcement items. The violations, corrective measures and enforcement actions will be documented in the Annual Report.

General Construction Permit: The City will notify owners and contractors of their obligations under the State Water Resources Control Board General Construction Permit.

Complaint Reporting System: The City will develop and implement a complaint reporting system to respond to storm water related public complaints. The City will respond to complaints within 3 working days.

Goals and Assessment: The table below represents measurable goals for the BMPs to be implemented and assessed during the permit term. The purpose of measurable goals is to gauge permit compliance and program effectiveness following the schedule identified.

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL

BMP #	BMP	Measurable Goals	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
26	Prepare and adopt a Storm Water Ordinance	Adopt ordinance	3/04	Public Works/ Storm Drain Fund	Don Milam
27	Develop Storm Water BMPs for inclusion in the Design Standards	Adopt new standards	3/04	Public Works, SJPIISWC/ Storm Drain Fund	Don Milam
28	Develop Storm Water plan review procedures for storm water BMPs	Develop storm water plan review procedures	6/04	Public Works, SJPIISWC/ Storm Drain Fund	Don Milam
		Document number of plans reviewed and ensure either WDID number or copy of NOI is included	6/04 ¹		
29	Inspector Training	Document number of training and personnel semi-annually	6/04 ¹	Public Works/ Storm Drain Fund	Don Milam
		Complete training of personnel and conduct refresher and new inspector training to appropriate employees as part of orientation	6/04 ¹		
30	Owner/Contractor Education	Distribute standards and conduct training classes annually	6/04 ¹	Public Works, SJPIISWC/ Storm Drain Fund	Don Milam
		Document number of workshops, number of participants and material distributed	6/04 ¹		

SECTION FOUR
CONSTRUCTION SITE STORM WATER RUNOFF CONTROL PROGRAM

BMP #	BMP	Measurable Goals	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
31	Construction Site Inspection Program	Conduct monthly storm water inspections at construction sites one acre or greater. Follow up inspections will be conducted where violations occur.	6/03 ¹	Public Works/ Storm Drain Fund	Don Milam
		Document violations, corrective measures and enforcement actions in Annual Report	6/03 ¹		
32	Notify Owners/Contractors of Permitting Obligation	Distribute informational flyer with grading and building permits	6/03 ¹	Public Works/ Storm Drain Fund	Don Milam
33	Complaint Reporting System	Develop and implement complaint reporting system to respond to storm water related public complaints	6/04 ¹	Public Works/ Storm Drain Fund	Don Milam
		Document number of complaints and responses. Respond to complaints within 3 working days.	6/04 ¹		

¹ The date indicated represents the first completion date of an ongoing BMP

SECTION FIVE

POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT PROGRAM

The Post-Construction Storm Water Management in New Development and Redevelopment Program addresses the importance of storm water runoff management in new development and redevelopment projects. This includes land disturbances of greater than or equal to one acre and projects less than one acre that are part of a larger common plan of development or sale. Substantial impacts of post-construction runoff are caused by an increase in the type and quantity of pollutants in storm water runoff. The BMPs described in this section of the SWMP include the development of structural and non-structural storm water runoff strategies and the development of post-construction programs that consider water quality impacts of new development and redevelopment projects in the comprehensive land use master planning process.

This program will also be integrated with the Construction Site Storm Water Runoff Control Program of the SWMP to provide information and up-to-date BMPs to the end user. The following BMPs describe implementation tasks and assessment tasks to be completed by the City for the Post-Construction Storm Water Management in New Development and Redevelopment Program.

Objective: Reduce pollutants in post-construction storm water runoff from new and redevelopment.

Permit Requirement: D.2.e. – Construction Site Storm Water Runoff Control

Description of BMPs:

Storm Water Ordinance: A storm water ordinance will be developed to reduce pollutants in storm water from new and redevelopment projects and insure that adequate long term funding is available. The Ordinance will require the adoption of the development standards as set forth in Attachment 4 of the General Permit.

Development Standards: The City will prepare development standards during the first five year permit period in accordance with Attachment 4 of the General Permit. The development standards will be adopted prior to the expiration of the General Permit. The City will ensure that coordination occurs with the planners during the planning phase to incorporate water quality controls into the design. Examples of development standards are to minimize directly connected impervious areas.

Comprehensive Land Use Master Plan: Water quality impacts of new and significant redevelopment will be addressed in the Comprehensive Land Use Master Plan.

Goals and Assessment: The table below represents measurable goals for the BMPs to be implemented and assessed during the permit term. The purpose of measurable goals is to gauge permit compliance and program effectiveness following the schedule identified.

POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

BMP #	BMP	Measurable Goal	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
34	Develop storm water ordinance requiring development standards	Adopt ordinance	3/04	Public Works/ Storm Drain Fund	Don Milam
		Require development standards to be considered in the planning phase	6/05 ¹		
		Include provisions to address responsibility and funding for long term maintenance	6/05 ¹		
35	Develop and adopt development standards utilizing structural and non structural controls in accordance with Attachment 4 of the General Permit	Adopt development standards and procedures including pre-plan review with planning staff to incorporate long term water quality BMPs	6/05 ¹	Public Works/ Storm Drain Fund	Don Milam
		Implement and document plan development progress in annual report	6/05 ¹		
36	Comprehensive Land Use Master Plan	Document annual Plan updates	3/04 ¹	Public Works/ Storm Drain Fund	Don Milam

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SECTION SIX
POLLUTION PREVENTION/GOOD HOUSEKEEPING
FOR MUNICIPAL OPERATIONS

The Pollution Prevention/Good Housekeeping for Municipal Operations addresses routine activities in the operation and maintenance for drainage systems, roadways, parks and open spaces, and other municipal operations to help ensure a reduction in pollutants entering the storm sewer system. This Program includes a training component to prevent and reduce storm water pollution from municipal operations. The BMPs can be separated into two broad categories: source controls and materials management. Source controls are BMPs designed to prevent or reduce pollutants at the source and include BMPs such as storm drainage system maintenance, structural floatable controls, street maintenance staff training, flood control projects and litter ordinances. Materials management BMPs are designed to reduce pollutants with non-structural controls such as pesticide education and spill prevention control.

This program will also be integrated with the Public Education and Outreach, Public Involvement/Participation and Illicit Discharges and Improper Disposal Programs to promote awareness of water quality concerns in performing routine roadway maintenance and operation, and other practices.

Objective: Reduce pollutants in storm water runoff from municipal operations.

Permit Requirement: D.2.f. – Pollution Prevention/Good Housekeeping for Municipal Operations

Description of BMPs:

Training: A training program for municipal operations employees will be developed regarding pollutants that may be discharged to the storm sewer system and the potential impacts. Proper training can reduce pollutants from such activities as storm sewer system maintenance, park and landscape maintenance, tack oil application, excess concrete, concrete truck washout and spill clean-up. Training will occur during the monthly safety meetings. The purpose of the training is to update operations, parks and golf course employees on storm water issues and to provide a platform for a roundtable discussion on current practices and procedures and how they impact storm water quality.

Storm Sewer System Maintenance: The existing drainage system operation, maintenance and cleaning procedures will be evaluated for the purpose of reducing

pollutants in storm water runoff. Areas of chronic problems will be identified and corrective actions for these areas will be developed and implemented. Implementation of BMPs shall reference appropriate guidance materials. Proper system maintenance and employee training will help to reduce storm water impacts from such activities as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance.

The current disposal procedures for waste removed from the storm sewer system will be reviewed and assessed. Such wastes include dredge spoil, accumulated sediments, floatables and other debris. Controls for reducing or eliminating the discharge of pollutants from areas such as roads and parking lots, maintenance and storage yards and waste transfer stations will help to reduce the discharge of pollutants to receiving waterbodies.

The City will develop a program designed to utilize structural and non-structural controls where necessary to reduce the discharge of floatables to the MEP. Adequate floatable controls will help to ensure a reduction in the amount and type of pollutant that is discharged into local waterways. Current programs to promote recycling and trash removal to minimize floatables in storm water will continue and will be coordinated through the MSWMC.

PHF Program: The City of Manteca requires that all pesticide/herbicide/fertilizer (PHF) contractors shall be certified by the State for PHF application. Current BMPs will be evaluated and implemented as appropriate to reduce the discharge of pollutants related to the application of pesticides, herbicides and fertilizers applied by municipal employees or contractors to public right-of-ways, parks and other municipal facilities.

Spill Prevention and Response Program: The City will respond to reports of spills or illegal discharges and initiate enforcement actions. The City fire department is also equipped to respond to spills, to mitigate spills and to eliminate the danger to human health. The current program will be evaluated for effectiveness, and will be modified as necessary. Personnel training are an important component to this program.

Water Quality Assessment for Flood Control Projects: The City currently utilizes detention basins to reduce peak discharges to receiving waters. This reduction in flow reduces potential erosion to receiving waters. It also decreases the amount of sediment, floatables and hydrocarbons from the discharge. The City will continue to require attenuation of storm water discharges and in the future may require the addition of other water quality features in the design and construction of detention basins.

Street Sweeping: The City will continue to sweep residential streets a least two times per month and all commercial streets two or three times per week. The City will document the miles of streets swept per month and the amount of material swept. Document the roads that are swept.

Pollution Prevention at Maintenance Yards: The City of Manteca currently has a Storm Water Pollution Prevention Plan (SWPPP) for the maintenance yard. The City will continue to implement the SWPPP.

Green Waste Program: The City of Manteca currently has a program that collects green wastes on a bi-weekly basis. In addition, leaf bags are provided in the fall and Christmas trees are collected in the winter.

Goals and Assessment: The table below represents measurable goals for the BMPs to be implemented and assessed during the permit term. The purpose of measurable goals is to gauge permit compliance and program effectiveness following the schedule identified.

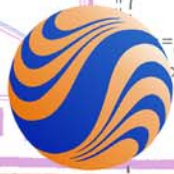
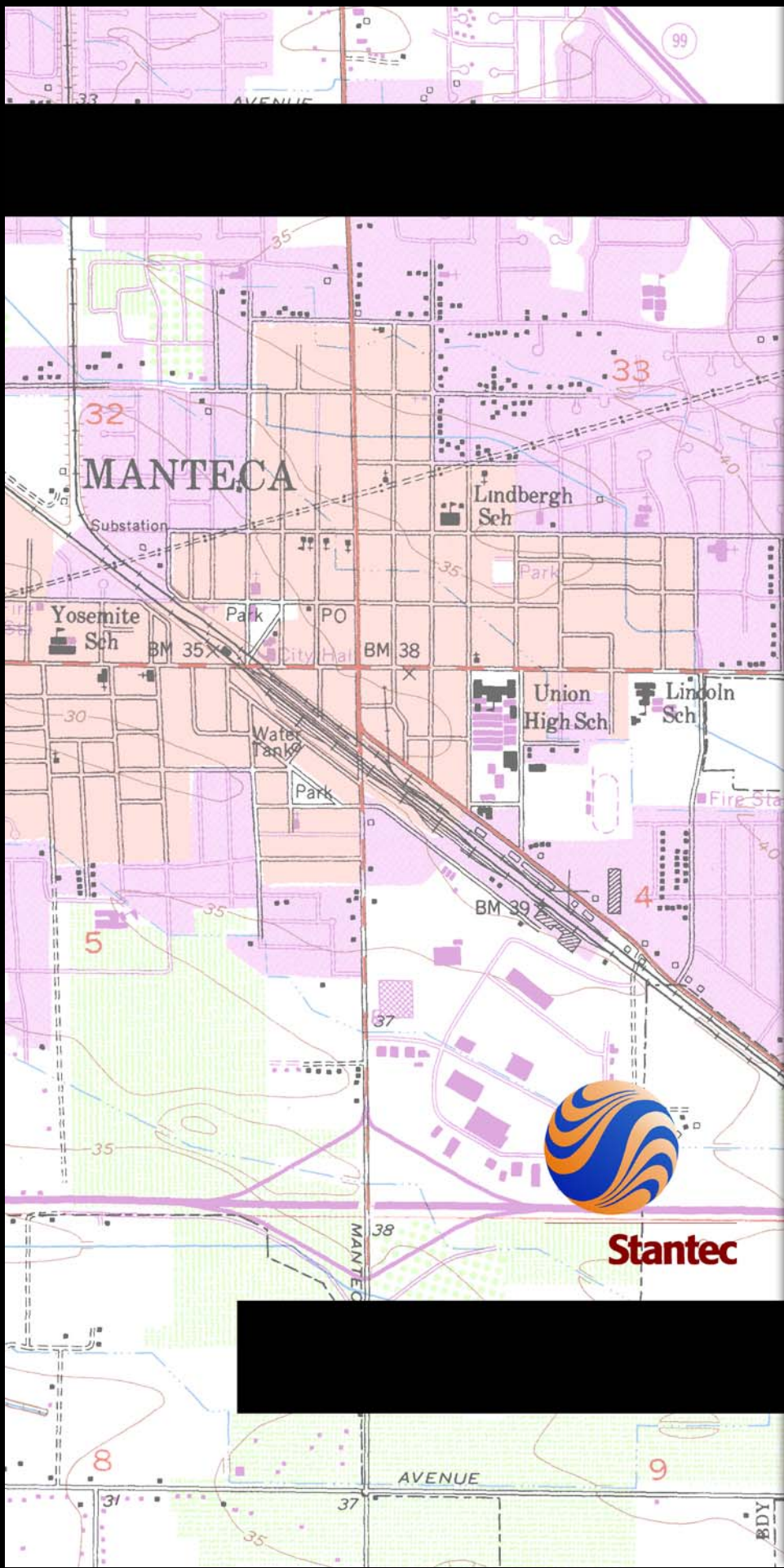
POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

BMP #	BMP	Measurable Goal	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
37	Municipal Training	Develop a training program for all municipal operations employees	6/04	Public Works/ Storm Drain Fund	Don Milam
		Provide training twice/year	6/04 ¹		
		Document attendance and topics	6/04 ¹		
38	Storm Sewer System Maintenance and Floatable Controls	Develop a cleanout schedule for MS4 components, including detention basins, pump stations, catch basins, and storm sewer lines	12/04	Public Works/ Storm Drain Fund	Don Milam
		Implement storm sewer system maintenance schedule and document activities	6/05 ¹		

SECTION SIX
POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

BMP #	BMP	Measurable Goal	Compl. Date (mo/yr)	Lead Entity/ Funding Source	Contact
39	Pesticide, Herbicide, and Fertilizer (PHF) Program	Continue to implement program. Document training and education.	12/03 ¹	Public Works/ Storm Drain Fund	Don Milam
40	Spill Prevention and Response Program	Assess existing program	6/04	Public Works/ Storm Drain Fund	Don Milam
		Document training, education and spill locations and response actions	6/04 ¹		
41	Water Quality Assessment for Flood Control Projects	Develop water quality assessment program	12/03	Public Works/ Storm Drain Fund	Don Milam
		Ensure that projects are assessed and project plans are revised accordingly	12/04 ¹		
		Document water quality assessment of capital improvements	12/04 ¹		
42	Street Sweeping	Sweep residential streets in City at least 2 times per month and commercial streets 2 or 3 times per week	12/03 ¹	Street Department/ Street Funds	Jim Stone
		Document miles swept per month and amount of material removed from roads	12/03 ¹		
		Document roads that are swept	12/03 ¹		
43	Pollution Prevention Plan for Maintenance Yard	Implement the SWPPP for the maintenance yard	6/04 ¹	Public Works/ Storm Drain Fund	Don Milam
44	Green Waste Program	Continue bi-weekly collection of green wastes	12/03 ¹	Public Works/ Storm Drain Fund	Don Milam

¹ The date indicated represents the first completion date of an ongoing BMP



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