

Appendix G

Land Disturbance Ordinance

See latest copy of Storm Water Management Plan submitted to the State of Utah Department of Environmental Quality, Division of Water Quality

COPY

CITY OF WEST JORDAN
STORM WATER MANAGEMENT PLAN

Submitted to:

State of Utah
Department of Environmental Quality
Division of Water Quality

Submitted by:

City of West Jordan Engineering Division
8000 South Redwood Road
West Jordan, Utah 84088

March 1993

**CITY OF WEST JORDAN
STORM WATER MANAGEMENT PLAN**

TABLE OF CONTENTS

GLOSSARY.....	iv
INTRODUCTION.....	1
PURPOSE.....	1
SWMP COORDINATION.....	1
SWMP REVIEW AND MODIFICATION.....	1
STAFFING AND RESOURCE ALLOCATIONS.....	2
EXISTING CITY PROGRAMS.....	2
CITY OF WEST JORDAN STORM WATER MANAGEMENT ORDINANCE.....	3
CHAPTER ONE – PUBLIC EDUCATION AND COMMUNITY OUTREACH PROGRAM.....	1
SCHOOL PROGRAM.....	2
COMMUNITY/ RESIDENTIAL PROGRAM.....	4
COMMUNITY / COMMERCIAL / INDUSTRIAL PROGRAMS.....	7
CHAPTER TWO – PUBLIC INVOLVEMENT/PARTICIPATION PROGRAM.....	1
PUBLIC NOTICE REQUIREMENTS PROGRAM.....	2
STORM DRAIN STENCILING PROGRAM.....	3
ADOPT-A-ROADWAY PROGRAM.....	4
CHAPTER THREE – ILLICIT DISCHARGE AND IMPROPER DISPOSAL DETECTION AND ELIMINATION PROGRAM.....	1
STORM WATER SYSTEMS MAP PROGRAM.....	2
PROVISION IN CITY'S STORM WATER MANAGEMENT ORDINANCE.....	3
DRY WEATHER SCREENING PROGRAM.....	5
INTERAGENCY PROGRAM/SALT LAKE COUNTY STORM WATER COALITION.....	7
CHAPTER FOUR – CONSTRUCTION SITE STORM WATER MANAGEMENT PROGRAM.....	1
PROVISION IN CITY'S STORM WATER MANAGEMENT ORDINANCE.....	2
CONSTRUCTION-SITE PLAN REVIEW PROGRAM.....	6
CONSTRUCTION-SITE INSPECTIONS OF EROSION CONTROLS PROGRAM.....	8
PUBLIC-REPORTING PROGRAM.....	10
CONTRACTOR / OPERATOR EDUCATION PROGRAM.....	11
CHAPTER FIVE – PERMANENT, POST-CONSTRUCTION SITE STORM WATER MANAGEMENT PROGRAM.....	1
STORM WATER UTILITY USERS FEE PROGRAM.....	2

> NC

PERMANENT, POST-CONSTRUCTION SITE STORM WATER MANAGEMENT PROGRAM.....	4
COMPREHENSIVE LAND USE MASTER PLAN PROGRAM.....	8
CAPITAL IMPROVEMENT DEVELOPMENT PROGRAM.....	9

CHAPTER SIX – POLLUTION PREVENTION / “GOOD-HOUSE KEEPING” FOR MUNICIPAL OPERATIONS PROGRAM.....	1
STORM DRAIN SYSTEM MAINTENANCE PROGRAM.....	2
FLOATABLE DEBRIS CONTROL PROGRAM.....	4
SNOW REMOVAL AND DE-ICING OF ROADWAYS PROGRAM.....	5
SALT PILE MANAGEMENT PROGRAM.....	6
STORM DRAIN SYSTEM WASTE DISPOSAL PROGRAM.....	8
STREET-SWEEPING WASTE DISPOSAL PROGRAM.....	9
ROAD CREW TRAINING PROGRAM.....	10
POLLUTION PREVENTION PRACTICES FOR MAINTENANCE YARDS PROGRAM.....	11
FLOOD CONTROL PROJECTS PROGRAM.....	12
CITY LITTER ORDINANCE / PUBLIC EDUCATION PROGRAM.....	13
PESTICIDE, HERBICIDE, AND FERTILIZER PROGRAM.....	14
SPILL PREVENTION AND RESPONSE PROGRAM.....	15

CHAPTER SEVEN – INDUSTRIAL AND HIGH-RISK RUNOFF PROGRAM.....	1
CITY LANDFILL PROGRAM.....	2
IDENTIFICATION OF INDUSTRIAL AND HIGH-RISK FACILITIES PROGRAM.....	3
INSPECTION OF INDUSTRIAL AND HIGH RISK-FACILITIES PROGRAM.....	4
MONITORING OF INDUSTRIAL AND HIGH-RISK FACILITIES PROGRAM.....	5

GLOSSARY

BMP	Best Management Practices
City	City of West Jordan
ECP	Erosion Control Plan
NPDES	National Pollutant Discharge Elimination System
RFP	Request for Proposal
SLVHD	Salt Lake Valley Health Department
SLAHM	Solid, Liquid, and Airborne Hazardous Materials
COUNTY	Salt Lake County
SWMO	Storm Water Management Ordinance
SWMP	Storm Water Management Plan
SWPPP	Storm Water Pollution Prevention Plan
UAC	Utah Administrative Code
UDOT	Utah Department of Transportation
UPDES	Utah Pollutant Discharge Elimination System

CITY OF WEST JORDAN
STORM WATER MANAGEMENT PLAN

INTRODUCTION

PURPOSE

This City of West Jordan Storm Water Management Plan (SWMP) will be implemented to limit, to the maximum extent practicable, the discharge of pollutants from the City's storm water drainage systems into "Waters of the State", including natural streams, creeks, rivers, lakes, ponds, and wetlands, also including man-made irrigation canals. The development and implementation of the SWMP is to fulfill requirements, as Co-permittee with Salt Lake County under its State of Utah UPDES Permit No. UTS000001, "Authorization To Discharge Municipal Storm Water", Section II, in accordance with Section 402(p)(3)(B) of the Federal Clean Water Act, and the *Utah Administrative Code (UAC) R317-8-3.9*.

SWMP COORDINATION

Agency: City of West Jordan, Engineering Division

Contact: Mr. James "Woody" Woodruff, P.E., City Engineer,
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Mr. Gerald B. Robinson, Jr., P.E., P.G., City Senior Staff Engineer,
Phone: (801)569-5073

The Salt Lake County (the "County"), as Co-Permittee with the City of West Jordan (the "City"), has submitted a separate SWMP to describe the SLCo's portion of the SWMP within the City. In addition, the Utah Department of Transportation (UDOT), also a Co-permittee in the County's permit, will submit a separate SWMP for its contribution of storm water into the City's system.

SWMP REVIEW AND MODIFICATION

This Storm Water Management Plan (SWMP) by the City, dated January 2003, is the first submittal by the City to acquire a General Permit to discharge storm water. It has been prepared to include the most recent Best Management Practices (BMPs), emphasizing on those pertaining to the "Construction Site Storm Water Runoff Control", "Post-Construction Site, In-perpetuity, Storm Water Runoff Control", and "Industrial and High Risk Runoff". The SWMP will be reviewed by the City on an annual basis, and all accumulated data, conclusions, recommendations for change or modification of the Plan found in that review will be described and submitted to the County for inclusion in its Annual Report to the Utah State Division of Water Quality on July 1 of each new Fiscal Year.

STAFFING AND RESOURCE ALLOCATIONS

Implementation of the Storm Water Management Plan including management and operations staffing and programs will be funded by City primarily general taxes, permit and user fees.

EXISTING CITY PROGRAMS

The City already has historically enforced certain BMPs through Engineering construction project design review. These "Policies" have helped to reduce pollutants from entering the storm water runoff systems.

Existing programs, aimed at reducing contaminants and pollutants from entering the City's storm water, began in January 2002. The City had already implemented the Policy that all properties being constructed for new Commercial or Industrial purposes within the City must provide detainment of storm water on-site of the project, in volume sufficient for the 100-year frequency, 24-hour duration storm. In addition, a requirement had been implemented to restrict the rate of discharge of storm water from the site to 0.2 cubic feet per second (cfs), per acre of property. Implementation of these two requirements has been effective in retainment of sediment loads from the storm water discharge onsite. These policies have also provided temporary storage for the storm water volume directly, thus allowing reduction or "throttling down" of the rate of storm water discharge from the property. This reduction from all properties having such facilities, in turn, has guarded against water discharge overloading of the City's storm drain system at any single location and at any single point in time.

And, as an additional policy adopted January, 2002, Commercial or Industrial facilities discharging storm water from all new construction sites must be equipped with a pre-approved water/oil and grease separators, before the storm water can be discharged into the City storm drain systems or receivable waters.

Also, in early 2002, the City adopted the Policy that the storm water BMPs being required on Commercial and Industrial properties be implemented as well on Residential Subdivisions, Multiple-Family Subdivisions, and Condominium Subdivisions, at or greater than one acre.

Recognizing that storm water provisions required today for new development projects cannot be effectively applied to existing built properties, new construction regulations will apply to replacement/redevelopment projects.

CITY OF WEST JORDAN STORM WATER MANAGEMENT ORDINANCE

In order to fully comply with the NPDES storm water requirements, the City is in the process of adopting a Storm Water Management Ordinance”.

Year	Implementation	Assessment
2003	Draft new City Storm Water Management Ordinance. <u>City pledge:</u> have representative from Engineering Division and from City's Attorney office complete first draft by March 31.	Completed first draft of Ordinance
2003	Circulate new City Storm Water Management Ordinance for review and comment to City staff and management. <u>City Pledge:</u> circulate by March 31, receiving comments back by April 21.	Comments from review received and recorded. Rewrite in-hand.
2003	Circulate revised Ordinance for final comment. <u>City pledge:</u> circulate by May 5, receiving final comments by May 16.	Comments from final review received and recorded. Final rewrite in-hand.
2003	Submit final Ordinance for City Council review and adoption. <u>City pledge:</u> consideration on June 3.	Document process (City Council presentation, minutes, etc.) Adopted Ordinance.
2003-2008	Implement City of West Jordan Storm Water Management Ordinance and enforce. <u>City pledge:</u> to implement and begin enforcement by June 30, 2003.	Document investigation efforts and enforcement actions taken

CHAPTER ONE

CITY OF WEST JORDAN STORM WATER MANAGEMENT PROGRAM
CONTROL MEASURE NUMBER ONE

PUBLIC EDUCATION AND COMMUNITY OUTREACH PROGRAM

The Public Education and Community Outreach Program of the City's SWMP addresses the increasing public and professional awareness of storm water quality concerns and the BMPs available to protect the storm water. The BMPs described in this section of the SWMP include: 1) education and training of staff; 2) education and training of the public. Other programs available in the community include household hazardous waste, leaf bag collection and participation in the County Storm Water Coalition programs. These education and training efforts will introduce the UPDES program, focus on known contaminant sources, and provide information and training on pollution control.

SCHOOL PROGRAM

Description: Provide students with educational materials, demonstrations, and outreach activities regarding the impact of daily activities on storm water quality through the "High School Mentor" and the "Urban Stew" programs, and through distribution of Education materials.

In the City of West Jordan, there are 2 High Schools, 4 Middle Schools, and 12 Elementary Schools.

High School Mentor Program: This program teaches high school students (grades 10 through 12) basic water quality concepts and issues. Classes will be conducted by the County.

High School students (grades 10 though 12), after training, will present the information to younger students in the Middle Schools (grades 7 through 9) and, possibly in the Elementary Schools (grades 4 through 6).

Urban Stew Program: This program uses a 25-minute storm water quality lesson taught both by High School students or SLCo personnel. The purpose of the presentation is to describe pollutants that occur in storm water, the sources of the pollutants, and the impacts they can cause. All materials are supplied to the High School students by the County.

Educational Materials: The County will distribute educational materials designed to inform communities of the impacts of storm water discharges on local water bodies. These materials include such items as tabloids, activity books, stenciled pencils, note pads, etc.

Permit Requirement: II.F.1.a – Public Education and Outreach.

Objective: To reduce pollutants being introduced into receiving waters by increasing Public awareness of problems associated with contaminants and pollutants, and by identifying solutions to prevent contamination and polluting.

Implementation and Assessment: The following Table represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2008	High School Mentor Program-- <u>City Pledge:</u> support County in its teaching program.	Document the number and names of student attendees per year, per school, and per grade class
2003-2008	Urban Stew Presentations Program-- <u>City Pledge:</u> support County in its teaching program.	Document the number and names of student attendees per year, per school, and per grade class

2003-2008	Development and Distribution of Educational Material Hand-outs Program— <u>City Pledge:</u> support County in its distribution program.	Document materials distributed and the names and number of students per grade class receiving those materials.
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COMMUNITY/RESIDENTIAL PROGRAM

Description: Inform the public concerning the impacts of storm water discharges on receiving water bodies, and of the steps that can be taken to reduce those impacts, including number and amount of pollutants that enter the storm water systems. Programs include Outreach activities, and distribution of educational materials. Inform the general public about the hazards associated with illegal discharges and improper disposal of wastes. In addition, promote, publicize, and facilitate the proper management and disposal of such wastes as used oil and household hazardous wastes. Develop educational materials concerning the proper storage, use, and disposal of such items as pesticides, herbicides, and fertilizers (PHF).

Public Reporting Program: Establish "hot-line" contacts to encourage and promote public reporting of observed illegal dumping and illicit discharges into the City's storm water runoff systems.

Procedures for filing of formal complaints with both SLCo and the City of West Jordan are already in place, and can accommodate calls for illegal dumping and illicit discharging.

Information Booths Program: Information booths, manned by informed persons, will be provided at appropriate community and educational events. Displays include a graphic panel illustrating the Hydrologic Cycle in an urban setting and are accompanied by a series of pamphlets and other educational materials.

Mass-Media Education Materials Program: The production and presentation of informative materials designed to educate the Public about storm water quality issues includes television and radio commercials, videos, stickers, etc. This program is produced and presented by the County.

Educational and Informative Newsletter: This program, conducted by the City, will distribute an informative Storm Water Newsletter to each residence and business within the City. It will be included with the monthly billing statement for City Services at least once during each calendar year. The newsletter will discuss progress of the City Storm Water Management Plan, as well as to offer helpful hints and suggestions as to how individual citizens or entrepreneurs can help guard against pollution of storm water runoff.

Household Hazardous Waste Program: This program provides for distribution of educational materials to the Public regarding proper disposal of used oil and household hazardous wastes.

Leaf Bag Collection Program: Through this County program, leaf bags are distributed to City residents for the purpose of composting of fallen leaves during the Fall season.

Salt Lake County Storm Water Coalition Program: This organization consists of a Coalition of various State and County Regulatory Agencies, State Construction Agencies, and City municipalities whose purposes primarily are that of : 1) reducing the load of pollutants entering the storm drains and receiving water bodies within the Salt Lake Valley; 2) enforcing the appropriate regulations appertaining; and 3) education of and distribution of information to the residents and businesses within the Salt Lake Valley meeting on a monthly basis.

Permit Requirement: II. F.1.b. and d. – Public Education and Outreach
II. F.3. f. and g. – Illicit Discharges and Improper Disposals

Objective: Reduce pollutants being discharged into receiving waters by increased public awareness of problems and solutions. Discourage discharge of pollutants to the storm water system and receiving waters through a program encouraging public reporting of violations observed and by enforcement actions taken against violators. Reduce the impact to water quality through timely clean-up actions. Educate residents and landowners on the potential impact to receiving waters from the improper storage, over-application and mis-application, and disposal of pesticides, herbicides, and fertilizers (PHF).

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the current term of the Permit.

Year	Implementation	Assessment
2003-2008	Public Reporting of Illicit Storm Drain Dumping – follow-up on reports and take enforcement action Program-- <u>City pledge:</u> ongoing review of call-up reports to both SLCo and WJC, and immediate referral to WJC Police Dept. for enforcement of City Ordinance.	Document number of reports received, by both mail and phone. Document enforcement actions taken
2003-2008	Attend Community Events with information booths and information distribution Program-- <u>City pledge:</u> to assist SLCo in its efforts to conduct information booths.	Document representation at local events, assess the response (# visitors, etc.)

<p>2003-2008</p>	<p>Develop mass educational materials via TV and radio commercials, stickers, etc. Program--</p> <p><u>City pledge:</u> to assist SLCo in its Mass Media efforts, as called upon. To contribute \$500.00 per year to SLCo for development of mass-media programs and materials.</p>	<p>Document advertisements and other means of informing the public. Document list of contributions</p>
<p>2003-2008</p>	<p>Develop educational and informative Storm Water Newsletter--</p> <p><u>City pledge:</u> to compose yearly Storm Water Newsletter for May of each year distribution to all residential, commercial, and industrial properties. These will be mailed with a monthly utilities billing.</p>	<p>Document number of yearly Newsletters distributed</p>
<p>2003-2008</p>	<p>Promote, publicize, and facilitate proper management and disposal of used oil, household hazardous wastes, and pesticides, herbicides, and fertilizers--</p> <p><u>City pledge:</u> to assist SLCo in its distribution of educational materials program, as needed.</p>	<p>Document information booths, numbers of informational pamphlets distributed, etc.</p>
<p>2003-2008</p>	<p>Leaf Bag Collection Program--</p> <p><u>City pledge:</u> to assist SLCo in its leaf bag program, as needed.</p>	<p>Document number of leaf bags distributed</p>
<p>2003-2008</p>	<p>Participate in the Salt Lake County Storm Water Coalition Program--</p> <p><u>City pledge:</u> to participate in monthly meetings and coalition activities.</p>	<p>Document meetings, educational materials developed through the Coalition</p>

COMMUNITY / COMMERCIAL / INDUSTRIAL PROGRAMS

Description: Develop a program to inform public employees, commercial businesses and industries of the water quality concerns in urban development and storm water runoff. Develop educational material on the proper use of pesticides, herbicides, and fertilizers.

Pesticide, Herbicide, and Fertilizer Education Program: Educational material to be distributed by County to businesses and industries regarding the potential impact to receiving waters from the over-application and mis-application of pesticides, herbicides, and fertilizers.

Other Solid, Liquid, and Airborne Hazardous Materials: Educational material to be distributed by County to businesses and industries regarding the potential impact to receiving waters due to improper storage, use, or disposal of solid, liquid, or gaseous hazardous materials other than pesticides, herbicides, and fertilizers.

Salt Lake County Storm Water Coalition: This organization consists of a Coalition of various State and County Regulatory Agencies, State Construction Agencies, and City municipalities whose purpose is reducing the load of pollutants entering the storm drains and receiving water bodies, and enforcing the appropriate regulations. This Coalition meets on a monthly basis.

Permit Requirement: II.F.1.c. and e. – Public Education and Outreach

Objective: To educate public employees, commercial businesses, and industries about the hazards associated with illegal discharges and improper disposal of waste. Also, to provide information regarding the potential impact to receiving waters from the improper storage, over-application and mis-application, and disposal of pesticide, herbicides, and fertilizers. Additionally, to inform concerning the hazards associated with illegal discharges and illicit disposal of wastes.

Implementation and Assessment: The table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2008	SLCo to review its current Pesticide, Herbicide, and Fertilizer education program – <u>City pledge:</u> to assist SLCo in its current program, as needed.	County to assess the current program and determine changes required.
2003-2008	SLCo to Implement changes identified in prior task – <u>City pledge:</u> to assist SLCo in the implementation program, as needed.	Document changes made to PHF program

CHAPTER ONE
PUBLIC EDUCATION AND OUTREACH PROGRAM

2003-2008	Participate in the Salt Lake County Storm Water Coalition Program-- <u>City pledge:</u> to participate in the monthly Coalition meetings.	Document meetings and educational materials developed through Coalition
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CHAPTER TWO

CITY OF WEST JORDAN STORM WATER MANAGEMENT PROGRAM CONTROL MEASURE NUMBER TWO

PUBLIC INVOLVEMENT / PARTICIPATION PROGRAM

The Public Involvement /Participation Program section of the SWMP addresses the importance of public involvement in the development and implementation of the SWMP . The goals of the Community participation program are: 1. public ownership; 2. broader public acceptance and support; 3. shorter time requirement for implementation of program phases; 4. broader base of program expertise; 5. development of important relationships with other community and governmental programs.

The BMPs described in this section of the SWMP provide opportunities for the public to play an active role in the development and implementation of the SWMP.

This program will be integrated with the "Public Education and Outreach Program" in order to supplement education with hands-on programs.

PUBLIC NOTICE REQUIREMENTS PROGRAM

Description: Compliance with all State, City, and local Public Notice requirements.

Permit Requirements: II.F.2.b.– Public Involvement/Participation

Objective: Provide opportunities for Public Involvement in the development and implementation of the SWMP.

Implementation and Assessment: The Table below represents measurable goals for this BMP 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.

Year	Implementation	Assessment
2003	Identify Public Notice requirements as required by Federal, State, City, and local authority – <u>City pledge:</u> establish requirements list by April 1, 2003.	Document Public Notices issued
2003-2008	Incorporate the use of the required PublicNotice requirements as required – <u>City pledge:</u> meet public notice requirements.	Document Public Notices advertised and the number and content of responses to the notices

STORM DRAIN STENCILING PROGRAM

Description: Locate and identify all inlet devices into the City's Storm Water Runoff systems. Use public volunteer groups to mark/label City's storm water runoff system inlets to minimize the likelihood of illegal dumping.

Storm Drain Stenciling Program:

Encourage volunteer groups to sponsor the painting of stencils or placing glued markers on the inlets with appropriate warning messages.

See also, Storm-Water Systems Map Program, Chapter 3, Page 2.

Permit Requirement: II.F.2.c. – Public Involvement/Participation.

Objective: To reduce pollutants from entering receiving waters to the MEP by identifying storm water system inlets and by increasing public awareness of problems and solutions. To include Public volunteer services to place or stencil these markers.

Implementation and Assessment: The following Table represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2004	Locate and identify all inlet sources into the storm drain systems throughout the City-- <u>City pledge:</u> to locate all inlets by latitude and longitude (GPS) and to singularly identify and enter into data base. Will be accomplished by City forces by September 15, 2004. (See "Storm Drain System Map Program", Chapter Three)	Completed project and data base entry
2004-2008	Installing stencil-painted or slickered message on all inlets into the City's storm water system, identifying the system with "clever message" to not discharge liquids or solids there - <u>City pledge:</u> utilize volunteer citizen groups and organizations as available to install message identified above on all storm water system inlets within the City. Evaluate effectiveness and maintain as needed.	Document meetings, number of storm drains stenciled, etc.

ADOPT-A-ROADWAY PROGRAM

Description: Community program designed to "Keep highways free of debris and litter".

Adopt-A-Roadway Program: Provide opportunities for groups and organizations to have their group recognized publicly for helping to keep roadside areas free from litter. Volunteer groups will pick up litter as needed on a City-assigned roadway stretch.

Permit Requirement: II.F.2.c. – Public Involvement/Participation

Objective: Keeping City major roadways free of debris by periodic litter removal. In turn, this removal from the roadways will protect the City's Storm Water Runoff System inlets from receiving litter and other pollutants.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2008	Adopt-A-Roadway Program – <u>City pledge:</u> to organize, advertise, receive applications, and staff several programs of Adopt-A-Highway for selected roadways by April 1, 2004. Dates of collection will be as needed and at locations as assigned by the City. The City operations will supervise this program.	Maintain records of all roadways receiving Adopt-A-Roadway programs, showing: 1) area adopted, 2) group name; 3) date(s) cleaned

CHAPTER THREE

CITY OF WEST JORDAN STORM WATER MANAGEMENT PROGRAM CONTROL MEASURE NUMBER THREE

ILLCIT DISCHARGE AND IMPROPER DISPOSAL DETECTION AND ELIMINATION PROGRAM

This 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 address enforcement through the City's Storm Water Management Ordinance.

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 impacts to receiving waters.

STORM WATER SYSTEMS MAP PROGRAM

Description: Update existing City of West Jordan storm-water systems map and data base as required.

City Mapping Program: The City is in the process of completing a Storm Water Masterplan. As part of this project, all storm water facilities will be identified, located, given a specific number, listed in a data base, and shown on maps. These facilities include storm drain catch basins, junction boxes, clean-out basins, storm water ditches, canals, streams, etc. Data collected will include size, flowline elevations, diameter and type of pipe entering and leaving, etc. In addition all storm water outfalls into Waters of the State will be identified and listed.

See also "Storm Drain Stenciling Program", Chapter Two, Page 3.

Permit Requirement: II.F.3.a.--- Illicit Discharges and Improper Disposal

Objective: Identify intake and discharge areas of the storm water systems in order to determine the source and extent of dry weather flows, and the particular water bodies these flows are affecting. The Storm Drain System Map(s) will be used for tracing dry weather flows and for computing the annual stormwater loads.

Implementation and Assessment: The Table below represents measureable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2004	City storm water system mapping program – <u>City pledge:</u> complete map(s) by September 15, 2004	Up-to-date maps as described
2004-2008	City updating of storm system maps – <u>City pledge:</u> maintain and update existing map annually from as-built plans for construction projects completed during year.	Record dates of update, changes made, and production of new maps
2004 – 2008	City updating land-use plans – <u>City Pledge:</u> update as land uses are changed.	Revise land use changes from the most recent City Land Use Map

ADDRESS CITY'S STORM WATER MANAGEMENT ORDINANCE

Description: Prohibit illicit discharges into the City's storm water systems, including appropriate enforcement procedures and actions, in the "City of West Jordan Storm Water Management Ordinance." Examples of illicit discharges include sanitary wastewater, sewage, improper disposals of waste oil, paint, household toxic liquids or substances, and spills from roadway accidents.

Exceptions:

- water line flushing
- diverted stream flows
- rising ground waters
- uncontaminated ground water infiltration [as defined in 40CFR 35.2005(20)] to separate storm drains
- discharges from potable water sources
- uncontaminated footing/foundation drains
- uncontaminated water from crawl space pumps
- air conditioning condensate
- irrigation water
- springs
- lawn watering
- individual residential car washing
- flows from riparian habitats and wetlands
- street wash waters
- discharges or flows from emergency fire fighting activities

Permit Requirement: II.F.3.b.– Illicit Discharges and Improper Disposal

Objective: Prevent pollution from entering receiving "Waters of the State" from City Storm Water Systems by enforcements and penalties provided in the City's Storm Water Management Ordinance.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003	Include in the New City Storm Water Management Ordinance adequate provisions for Illicit Discharge and Improper Disposal Detection and Elimination – <u>City pledge:</u> to include as an element of the SWMO.	Ordinance adequate in regard to Illicit and Improper Discharge into City storm water systems

CHAPTER THREE
 ILLICIT DISCHARGE AND IMPROPER DISPOSAL DETECTION AND ELIMINATION PROGRAM

<p>2003</p>	<p>Adopt City of West Jordan Storm Water Management Ordinance with controls governing Illicit and Improper Discharge into City's Storm Water Systems.</p> <p><u>City Pledge:</u> adoption of Ordinance by Mayor and City Council action by June 3, 2003.</p>	<p>Document process (City Council presentation, minutes, etc.)</p>
<p>2003-2008</p>	<p>Implement City of West Jordan Storm Water Management Ordinance with provisions relative to Illicit and Improper Discharge into City's Storm Water Systems .</p> <p><u>City pledge:</u> to implement and begin enforcement by July 1, 2003.</p>	<p>Document investigation efforts and enforcement actions taken.</p>

DRY WEATHER SCREENING PROGRAM

Description: Continue the County's Dry Weather Screening Program designed to detect and address illicit discharges. The Dry Weather Screening Program is detailed in the "Sampling Plan for Dry Weather Screening", dated March 1996, revised September 2000.

Provide for this Program, with enforcements and penalties, in the "City of West Jordan Storm Water Management Ordinance".

The program is designed to detect, address, and stop illicit discharging or "dumping" of harmful and deleterious substances or materials into storm drain systems. Primarily, it consists of a water sampling program taken periodically from selected outfalls along a storm water drainage system at times when the water being conveyed is not from a natural storm. This water may occur from such natural sources as intercepted high groundwater tables, springs, diverted streams, etc., or may be from man-caused, but legal, sources such as irrigation and lawn-watering practices, air conditioning condensates, flushing of water lines, etc. Sources, however illicit, may include sanitary sewage and effluents, various discharges from manufacturing processes, oil and grease from automotive garages and businesses, etc.

The intent of the program is to discover and stop those persons and businesses causing illicit discharges, and impose penalties to discourage continued violations.

Dry Weather Screening Program: this program is detailed in the County's "Sampling Plan for Dry Weather Screening", dated March 1996, revised September 2000. County will conduct this program within the City limits.

Investigations and Enforcements: Any dry weather flows that can be identified will be traced to their source. If the source is found to be an illegal man-caused source, the SLVHD will be informed of the illicit connection or illegal discharge for prosecution and enforcement action.

Permit Requirement: II.F.3.C. – Illicit Discharges and Improper Disposal.

Objective: Identify, address, and eliminate illicit discharges into the storm drain systems. The goal will be to conduct dry weather screening on all identified outfalls once each year during the permit term.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

CHAPTER THREE
 ILLICIT DISCHARGE AND IMPROPER DISPOSAL DETECTION AND ELIMINATION PROGRAM

Year	Implementation	Assessment
2003	Include in the New City Storm Water Management Ordinances adequate provisions for "Dry Weather Screening program" – <u>City pledge:</u> include in SWMO.	Document provision in the Ordinance
2003-2008	SLCo to continue "Dry Weather Screening Program" – <u>City pledge:</u> assist SLCo in its "Dry Weather Screening Program" as called upon.	Document findings of yearly screening program, number of outfalls visited and number of outfalls with suspected conditions
2003-2008	SLCo to investigate and apply enforcements on any suspect outfalls that exhibit evidence of illicit discharge. <u>City pledge:</u> assist SLCo in its investigation and enforcements, as called upon.	Document any investigation efforts and findings
2003-2008	SLCo and / or West Jordan City to report findings indicating illicit discharge to SLCo and to Salt Lake Valley Health Department (SLVHD) to take actions toward eliminating them. <u>City pledge:</u> assist SLCo in its reporting of findings.	Document enforcement actions taken

INTERAGENCY PROGRAM / SALT LAKE COUNTY STORM WATER COALITION

Description: For both SLCo and CWJ, Continue coordination and participation in the Salt Lake Storm Water Coalition for the purpose of enforcing and reducing the load of contaminants to the MEP which enter storm drains and receiving water bodies from illicit discharges. Provide support to federal, state, and other local entities in the efficient control of contaminants as required under appropriate regulations, such as the "Storm Water Permit Program", "Underground Storage Tank Program", "Class V Well Inventory and Management Program", and "Municipal Wastewater Pretreatment Program".

Salt Lake County Storm Water Coalition: The Coalition meets monthly to coordinate new educational materials/programs, storm water program development, and to inform all members of new regulations or storm water workshops.

Permit Requirement: II.F.3.C. -- Illicit Discharges and Improper Disposal
II.f.1.-- Public Education and Outreach

Objective: Through Interagency cooperation, reduce contaminants and pollutants originating from illicit discharges or improper disposal from entering stormwater runoff system, including storm drains.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2008	Continue participating in Salt Lake County Storm Water Coalition. <u>City pledge:</u> continued participation.	Document Coalition Meetings
2003-2008	Interact with Public Education and Outreach Programs-- <u>City pledge:</u> support County programs	Document programs affecting City
2003-2008	Coordinate illicit investigations with the Coalition, especially the SLVHD. <u>City pledge:</u> to assist SLCo in its coordination with SLVHD as called upon.	Document number of illicit discharges/connections investigated and penalties assessed

CHAPTER FOUR

CITY OF WEST JORDAN STORM WATER MANAGEMENT PROGRAM CONTROL MEASURE NUMBER FOUR

CONSTRUCTION SITE STORM WATER MANAGEMENT PROGRAM

This Section of the SWMP addresses water quality concerns relative to pollution of storm water runoff waters by activities involved in the construction process. All provisions herein apply only to construction activities on construction sites greater than or equal to one acre. The BMPs described in this Section include the development of a Construction Site Program designed to reduce pollutants entering storm water runoff systems due to construction activities.

The accumulation of soil material may harm the system by reducing its flow capacity, but may also contribute physical, chemical, and biological pollutants to the eventual receiving waters.

PROVISION IN CITY'S STORM WATER MANAGEMENT ORDINANCE

Description: Develop in the "City of West Jordan Storm Water Management Ordinance" provisions on all construction sites equal to or exceeding one acre in size to require owners/ construction contractors/ operators to use on-site erosion and sediment controls and to maintain appropriate structural and non-structural BMPs to reduce pollutant discharge during times of soil disturbances or excavation operations. Also, develop penalties to enforce and ensure compliance with the erosion and sediment controls.

The Ordinance will require Developers to submit erosion control plans for the construction sites to the City's Engineering Division. The plan will consist of: 1) a completed "Storm Water Pollution Prevention Plan" (SWPP); 2) construction site plan sheet(s) showing erosion controls.

The ordinance will require contractors or operators to control waste such as discarded building materials, concrete truck wash-outs, chemicals, fuels and oils storage, litter and sanitary wastes at the construction site, etc.

Permit For Storm Water Discharge -- Provide requirements in the Ordinance for developers/contractors/ operators to obtain a Storm Water Discharge Permit from the City prior to construction activity.

Permit Requirement: II.F.4.a.& b.- Construction Site Storm Water Runoff Control

Objective: Prevent the discharge of sediment from construction-site erosion and the discharge of other pollutants, such as oil, grease, toxic and sanitary wastes, etc. from construction sites into the City-owned storm water systems.

Develop effective requirements and adequate enforcement procedures within the City's Storm Water Management Ordinance to require an erosion control plan and proper waste handling plan for all development sites, to control the reduction of erosion, sediment transportation and other pollution from construction sites.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003	<p>Include in the New City Storm Water Management Ordinance provisions for "Construction Site Storm Water Runoff Control" –</p> <p><u>City pledge:</u> to have representatives from Engineering Division and from City's Attorney office review Ordinance in regard to Illicit and Improper Disposal and ensure is adequate by February 24.</p>	Provisions made in Ordinance
2003	<p>Adopt City of West Jordan Storm Water Management Ordinance with controls governing "Construction Site Storm Water Runoff Controls".</p> <p><u>City Pledge:</u> adoption of Ordinance by Mayor and City Council action by June 1.</p>	Document process (City Council presentation, minutes, etc.)
2003-2008	<p>Implement City of West Jordan Storm Water Management Ordinance with new changes relative to "Construction Site Storm Water Runoff Control".</p> <p><u>City pledge:</u> to implement and begin enforcement by July 1, 2003.</p>	Document investigation efforts and enforcement actions taken.

Specifications For Erosion Control Plan In Storm Water Prevention Plan (SWPP)

Under the Storm Water Management Ordinance, the City of West Jordan requires that all construction sites of size one acre or more within the City must be continuously operating under a construction-site erosion control plan acceptable and approved by the City's Engineering Division. This erosion control plan requirement includes: 1) submittal by the Owner/ Developer of a completed application form; 2) submittal by the Owner/Developer of a Storm Water Pollution Prevention Plan (SWPP) with the application.

Storm Water Permit application forms and SWPP forms will be available on West Jordan's Web site or from the City's Engineering office. Both forms must be completed by a Registered Professional Engineer, and the SWPP form must include the following information:

A. General Information:

1. Site Description – A description of the site as it will exist during the construction period , including a map with spot elevations and contour lines of the site. This description must include the nature and location of the construction activity, including a description of the intended sequence of major activities which will disturb soils on the site. Must include estimates of the total area of the site and of the total area that is expected to be disturbed during construction, including excavation , grading, or other activities. The City Engineering Division reserves the right to limit the area of the proposed disturbance at any single time, in order to prevent excessive erosion at the site;

2. Control Description – A description of the proposed erosion control measures that will be implemented. Refer to the SLCo's "Guidance Document for Stormwater Management" and to the City of West Jordan Stormwater Management Manual. The SWPP must clearly describe both the times and the exact locations during the construction process that the measures will be implemented for each major activity. The SWPP shall also state the name and phone number of the person or entity responsible for implementation of each control measure.

B. Goals and Criteria:

1. Prevent or minimize uncontrolled discharge – The proposed measures and controls shall be designed to prevent the discharge of sediment, debris, and all other construction-related pollutants from the construction site.

2. Prevent or Minimize Construction Debris – The proposed measures and controls shall be designed to prevent or minimize the deposition, discharge, tracking by construction vehicles, or dropping of mud, sediment, debris, or other potential pollutants onto public streets and rights-of-way.

3. Best Management Practices (BMPs) – The proposed measures and controls shall consist of BMPs available at the time that the SWPP is submitted. Best Management Practices included in the current SWPP (2003) include, but are not limited to, temporary silt or sediment fences, sediment traps and detention ponds, gravel construction entrances and wash down pads to reduce or eliminate off-site tracking, establishment of temporary grasses and permanent vegetative cover, use of straw mulch as a temporary ground cover, erosion control blankets, temporary interceptor dikes and swales, storm drain inlet protections, check dams, subsurface drains, pipe slope drains, level spreaders, rock outlet protection, reinforced soil retaining systems, and gabions.

4. Stabilization – The proposed measures and controls shall be designed to preserve existing vegetation, where possible. Disturbed portions of the site shall be stabilized, and the amount of disturbance at any single point in time shall be limited. Stabilization practices include temporary seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, and other appropriate measures.

5. Minimize Risk of Discharge of Other Materials – The proposed measures and controls shall minimize the risk of discharge of construction-related pollutants from the construction site, including paint thinners, solvents, other chemicals, gasoline, oil, grease, washing waters from concrete trucks, etc. Such measures may include implementation of storage practices to minimize exposure of the material to storm water as well as spill prevention and response.

CONSTRUCTION-SITE PLAN REVIEW PROGRAM

Description: Develop procedures to implement effective construction site plan review to control water quality impacts to the City's storm water systems and to the end receiving waters.

Also, include in the site plan review requirements for Contractors/Operators to control wastes other than storm water runoff that can result from the project during construction, thus adversely impacting the City's storm water systems and/or the end receiving waters

Ordinance : The City Storm Water Management Ordinance will supply the framework for this Program, as well as the regulatory jurisdiction for enforcement.

City Personnel Training: Train personnel to review site plans to evaluate the plans for the following short-term storm water erosion controls:

1. All building sites, for whatever intent of usage, and of 1-acre or greater in size are required to have the short-term construction erosion controls;
2. Excavation and shaping of the construction site at all times shall have complete drainage into a City-owned storm water facility or from a City Engineering Division-approved facility for conveyance away from the site ;
3. Drainage into a City-owned storm water facility must have protections above its entrance which removes the sediments, oils, fuels, chemicals, floatables, debris, etc. This protection is to be provided by such devices as conveyance ditches, sediment basins, silt traps around all inlets into channels or pipes, berms, etc. (see SWPP for suggestions and requirements). In instances where the calculated flows are so large as to require limiting of the flow from the site, then permanent basins are to be constructed to detain the water for limited discharge for the permanent, after construction rate;
4. No storm water runoff in any amount is to be discharged from the property onto adjoining streets, properties, ditches or canals.
5. Both structural and non-structural facilities and controls must be in place before any construction involving soil disturbance can begin on the site, operating 24-hours per day throughout the project.

Permit Requirement: II.F.4.b. & c. – Construction Site Storm Water Runoff Control

Objective: Enhance the existing construction site approval process to include construction Erosion Control Practices, and Stabilization & Structural practices to protect the quality of the storm water runoff waters during construction.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003	Develop water quality impact review procedures in accordance with City's "Storm Water Rules Regulations, Standards, and Specifications", and with City's Storm Water Management Ordinance, particularly in reference to Construction Site Storm Water and Other Pollutions Program – <u>City pledge:</u> develop by June 1.	Completed water quality procedure – Amend as necessary
2003-2008	Provide personnel training to City's Engineering Division Staff in regard to the new procedures – <u>City pledge:</u> Training Program will be designed by the City and initial training completed by July 1.	Document training program content, date held, and names of City Review Engineers trained.
2003	Implement Engineering Division design review procedures and begin enforcement – identify water quality concerns arising from new projects – <u>City pledge:</u> implementation and enforcement will begin by July 1.	Document the number of and content of water quality concerns arising
2003-2008	Review success of BMP implementation – <u>City pledge:</u> complete review by December 31 each year, beginning 2003.	Document review process and recommendations for change

CONSTRUCTION SITE INSPECTIONS OF EROSION CONTROLS PROGRAM

Description: Develop procedures for site inspection by City Inspector(s) and enforcement of erosion control and pollution source control measures at construction sites.

Include the procedures accepted for the inspection of erosion and other pollution-causing conditions at construction sites in the City Storm Water Management Ordinance.

Train the City Engineering Inspectors concerning the erosion control requirements in the SWPP and in the BMPs available for use on construction sites.

Permit Requirement: II.F.4.e. – Construction Site Stormwater Runoff Control

Objective: Ensure that BMPs are properly installed, are in place daily, and are reducing pollutants in storm water runoff from construction activities.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003	Provide for inspection requirements at construction sites in the City's Storm Water Management Ordinance. <u>City pledge:</u> prepare by June 3.	Provision included on or before time pledged
2003	Develop procedures for construction site inspections pertaining to erosion control-- <u>City pledge:</u> develop by June 1.	Developed procedures
2003	Train the City Inspectors in the BMPs available for use on construction sites, and in the necessary enforcements at construction sites-- <u>City pledge:</u> to train by July 1.	Training provided-- record and certify
2003-2008	Begin site inspections -- <u>City Pledge:</u> conduct inspections in each of the five years pledged under the Permit, beginning July 1.	Document inspections and findings--compile monthly

2003-2008	Initiate enforcement and penalty actions as necessary – <u>City Pledge</u> : begin enforcements and inflict penalties as necessary in each of the five years pledged under the Permit, beginning July 1.	Document enforcement actions taken
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PUBLIC-REPORTING PLAN PROGRAM

Description: The public can help identify violations of the City's Construction Site Storm Water And Other Pollution Programs. Encourage owners/contractors/operators, private citizens, etc. to report violations on construction sites and mud-tracking on roadways.

Maintain procedures for the receipt and consideration of public inquiries, concerns, and information submitted regarding storm water runoff from construction activities.

Public Reporting Program: The City of West Jordan, Engineering Division maintains 24-hour phone lines for public concerns. Salt Lake Valley Health Department (SLVHD) maintains a phone line for public reporting during business hours.

Permit Requirement: II.F.4.d.-- Construction Site Storm Water Runoff Control

Objective: Encourage public participation in reporting storm water quality concerns arising during construction activities. Initiate follow-up procedures.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2006	Encourage public reporting of violation of erosion control practices, mud tracking, or in-transit spillage during construction of project. <u>City pledge:</u> conduct advertising encouraging public reporting of violations. Advertise in the local public newspaper and in the City's annual Storm Water Newsletter Also, request SLCo to advertise in the City's Storm Water School Education Program and in the City's information booths at City events by December 31, 2003.	Document number of newsletters, number of school classes and number of students taught, number of information booths and handouts distributed. Summarize at end of each year.
2003-2008	Coordinate with SLVHD on all storm water-related calls received –	Document the number and type of calls received
2003-2008	Follow-up on all reports and take enforcement actions where necessary –	Document number of reports received and any enforcement actions taken

CONTRACTOR/ OPERATOR EDUCATION PROGRAM

Description: Develop and distribute appropriate education and training materials for construction-site contractors and operators.

Guidance Document for Stormwater Management: SLCo has developed a guidance document of BMPs, which includes a chapter specifically for construction site BMPs. The document is available from SLCo's web site and in hard copy from the SLCo's Engineering Division.

Permit Requirement: II. F.4.f – Construction Site Storm Water Runoff Control

Objective: Provide readily available reference for designers, construction site operators and owners to utilize in planning and implementation of structural and non-structural BMP's to reduce pollutants discharged to the City's storm drain systems during construction.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003	Evaluate, adapt, and revise County Guidance document for use by City – <u>City pledge:</u> complete by June 1.	Document having read for content and ideas, listing such for use
2003	Begin distribution of Guidance Document to designers, contractors or operators – <u>City pledge:</u> to begin distribution in pre-Development meetings by July 1.	Document number of documents distributed and names of those receiving

CHAPTER FIVE

CITY OF WEST JORDAN STORM WATER MANAGEMENT PROGRAM CONTROL MEASURE NUMBER FIVE

PERMANENT, POST-CONSTRUCTION SITE STORM WATER MANAGEMENT PROGRAM

This Control Measure addresses the importance of the in perpetuity storm water runoff management following construction on new project sites or following reconstruction on existing sites where existing construction has been added to, modified, or rearranged. And, as discussed elsewhere, the Control Measure is only applicable to projects greater than or equal to one acre in size, also including land disturbance in projects less than one acre that are part of a larger common plan of development or sale exceeding that size.

Substantial impacts of post-construction runoff are caused both by an increase in the amount and in the type of sediment being discharged from the site, and in the type and quantity of pollutants from other sources within the area subject to storm water runoff. In addition, as the City continues to develop, the increased costs for additional or redesigned City infrastructure, the increased maintenance costs of the existing systems, and other numerous costs inherent to the growth in population all have wrought an overwhelming monetary impact on the City. Therefore, it has become necessary for the City to make drastic changes in its day to day policies relative to storm water management.

This program will 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 of West Jordan for the Post-Construction Storm Water Management in New Development and Redevelopment projects.

STORM WATER UTILITY USERS FEE

Description: Evaluate storm water management costs and develop a provision in the City's Storm Water Management Ordinance to impose a storm water utility usage fee on all property owners within the City.

Permit Requirement: The City of West Jordan Storm Water Management Plan provides for the following – Storm Water Utility Users Fee Ordinance.

Objective: To provide funding both for the City's present and future construction needs for storm water utilities development and for the maintenance of that development system.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003	Complete studies necessary to determine a supportable Storm Water Utility User's Fee – <u>City pledge:</u> Complete by September 1.	Written report documenting findings and recommendations
2003	Ensure that City's Storm Water Management Ordinance has adequate provisions through which a Storm Water Utility Users Fee can be assessed – <u>City pledge:</u> Develop appropriate language and include for Ordinance adoption by June 1.	Record findings as to adequate inclusion

PERMANENT, POST-CONSTRUCTION SITE STORM WATER MANAGEMENT PROGRAM

Description: 1) Develop a provision in the City's Storm Water Ordinance (SWMO) for Post-Construction Storm Water Detention, Conveyance, and Discharge from property sites equal to or exceeding one acre in size. Include in the new provision the requirement that the Owner/Developer of a construction project must acquire a Permit from the City Engineering Division to discharge storm water from the newly constructed project site into a City-, a County-, or a UDOT-storm water system or directly into "Waters of the State" (WOTS). This Permit must be in the possession of Owner/Developer before discharge from the property and into the City's storm water systems legally can occur.

Storm Water Discharge Permit:

The City's SWMO requires that the Owner/Developer of the property on which construction is to occur obtain a Storm Water Discharge Permit from the City's Engineering Division prior to connecting to the City's storm water systems. This requirement is both for properties connecting on for the first time as well as for properties already connected to the system but having additional construction on the property, as described elsewhere in this management plan. The Permit is administered under Ordinance 11.022 to the City's Storm Water Management Ordinance. The required information to obtain this permit is listed at the end of the Tables on the pages following.

- 2) Develop a provision in the City's SWMO for New and modified Commercial, Industrial, or Multi-Family Residential properties requiring both structural and non-structural storm water facilities and practices to control the in-perpetuity storm water discharge from the property site. Provide for penalties for non-compliance to these requirements.
- 3) Develop incentives to owners of other existing properties where no change is being requested to construct the same above storm water amenities on their property voluntarily.
- 4) Develop a provision that all Commercial, Industrial, or Multi-Family Residential property owners become totally responsible for the in perpetuity maintenance of private storm water facilities on their property.

Application requirements for a Post-Construction storm water discharge Permit are listed at the end of this program.

- 5) Develop a program within the City to consider water quality impacts of new development and redevelopment projects in the comprehensive land use master planning process.

Permit Requirement: 11.F.3.b.– Post Construction Storm Water Management

Objective: Reduce the long term effects of pollutants in storm water runoff from construction of both new development and redevelopment projects.

Implementation and Assessment: The Table below represents measurable goals for this BMP 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.

Year	Implementation	Assessment
2003	Include in the New City Storm Water Management Ordinance provisions for Post-Construction, storm water conveyance, detention, and discharge permits -- <u>City pledge:</u> develop provisions by March 31.	Assess, ensure, and record
2003	Adopt City of West Jordan Water Management Ordinance -- <u>City Pledge:</u> adoption of Ordinance by Mayor and City Council action by June 3.	Document process (City Council presentation, minutes, etc.)
2003	Implement Post Construction Storm Water Permit Controls including: 1) Final inspection of construction site by Engineering Division as part of project construction completion. 2) Periodic inspection of storm water management facilities to determine functionality and adequate maintenance. <u>City pledge:</u> to implement and begin enforcement by July 1.	Document investigation efforts and enforcement actions taken.
2003	Distribute design guidelines. Have available at City Engineering Division, City Hall -- <u>City pledge:</u> to have these materials available by June 1.	Document advertisements and distribution

Requirements for Application for Storm Water Quality Permit

A Post-Construction Storm Water Discharge Permit is required for all Property Owners/ Developers for each newly constructed property discharging storm water into a City-owned drainage facility. Applications must be submitted to the City's Engineering Division with preliminary plans. The application shall include:

- A. Application
A completed application form. Application forms will be available at the City's Engineering Division Office, City Building, 8000 South Redwood Road, West Jordan, Utah.84088, and will be available on the City website.

- B. Best Management Practices (BMP) Plan
Propose approved structural and non-structural practices appropriate to the specific site using the City's Guidance Document for Storm water Management. The BMPs shall be designed to ensure that the quality and quantity of storm water released to the storm drain system meets the requirements of federal, state and local laws and regulations and the City's Utah's Pollutant Discharge elimination system (UPDES) permit, and further, will not exceed the design capacity of the storm drain system or jeopardize the integrity of the storm drain system.

C. Maintenance Plan

A plan outlining how the applicant will maintain any private stormwater improvements in perpetuity.

COMPREHENSIVE LAND USE MASTER PLAN PROGRAM

Description: Consider water quality impacts of new development and re-development in the Comprehensive Land Use Master Planning Process.

Permit Requirement: II.F.5.c. – Post-Construction Storm Water Management in New Development and Redevelopment

Objective: Limit the discharge of pollutants to pre-development levels.

Implementation and Assessment: The Table below represents measurable goals for this BMP 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.

Year	Implementation	Assessment
2003	Identify areas where urban development is likely to occur and areas that are sensitive to the effect of urbanization – <u>City pledge:</u> Complete initial survey by October 1.	Review and update as necessary
2003-2008	Develop design criteria for storm water controls for new- and re-development – <u>City pledge:</u> Implement by January 1, 2004; update annually.	Review and update as necessary

CAPITAL IMPROVEMENT DEVELOPMENT PROGRAM

Description: Include City construction projects under Post-Construction storm water management permit requirements.

Permit Requirement: II.F.5.d.-- Post Construction Storm Water Management City projects.

Objective: Municipal developments shall be designed and maintained such that the impact to storm water is reduced, and BMPs developed to the same or greater level as private and other public projects.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003	Include City projects in P.C. permit program.	Review proposed ordinance.
2003-2008	Provide training for City project managers and consultants on long-term storm water controls.	Document training sessions and names of those persons being trained

CHAPTER SIX

CITY OF WEST JORDAN STORM WATER MANAGEMENT PROGRAM CONTROL MEASURE NUMBER SIX

POLLUTION PREVENTION / FACILITY MAINTENANCE FOR MUNICIPAL OPERATIONS PROGRAM

The Pollution Prevention/Facility Maintenance Program addresses routine operation and maintenance activities in the drainage systems, roadways, parks and open spaces, etc. to reduce pollutants entering the storm drain systems. The program will include snow removal, deicing, salt-pile management, and road crew training; storm drainage system maintenance, structural floatable debris controls, oil and grease controls, maintenance yard practices, flood control projects, litter ordinance development, pesticide, herbicide, and fertilizer program, and spill prevention and response.

STORM DRAIN SYSTEM MAINTENANCE PROGRAM

Description: Maintain and improve existing City of West Jordan storm drainage system operation, maintenance, and cleaning procedures.

Identify areas of chronic problems, and develop and implement corrective actions.

Provide an up-to-date map showing the existing City-owned systems, including all storm drain, ditches, canals, and detention basins, etc. Provide map to show all inlets, clean-out boxes, catch basins, etc. and all end-point discharges into "Waters of the State".

Permit Requirement: II.F.6.a(1) – Pollution Prevention/Facility Maintenance

Objective: Maintain and operate the storm water drainage system to reduce the discharge of pollutants.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2004	Completion of map(s) showing all storm water systems, catch basins, outlets into receiving waters, pipes, etc., along with database of elevations, pipe diameters, basin capacities, etc. – <u>City pledge:</u> completion of Storm Water System Map September 15, 2004.	Acquirement and assessment of Plan and Maps described
2003-2008	Review existing operation and maintenance procedures and practices annually, making changes or alterations as required – <u>City pledge:</u> review, alter, and update annually during December.	Update as necessary
2003-2008	Track system cleaning activities – <u>City pledge:</u> compile annually in December.	Document system maintenance and cleaning results
2003-2008	Prioritize system areas of concern (high use/frequent cleaning) – <u>City pledge:</u> review annually.	Document priority maintenance and cleaning activities

FLOATABLE DEBRIS CONTROL PROGRAM

Description: Develop a program designed to utilize structural controls where necessary to reduce the discharge of floatables.

Permit Requirement: II.F.6.a.(2) – Pollution Prevention / Facilities Maintenance

Objective: Reduce storm water quality impacts from floatables by providing structural controls to remove from storm water runoff. Apply controls on both public and private structures, and require adequate maintenance by owner/operator.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003	Develop program to assess the needs for structural controls to remove floatable debris from storm water, and determine responsibility and schedule for maintenance of each facility-- <u>City pledge:</u> Complete by October 1, 2003	Completed Program. Evaluate program and recommendations
2003-2008	Implement program -- <u>City pledge:</u> By December 1, 2004	Assess program annually.
2003-2008	Install new structural controls per recommendations -- <u>City pledge:</u> By June 1, 2004	Document installation and effectiveness of new controls

SNOW REMOVAL AND DEICING OF ROADWAYS PROGRAM

Description: Review and assess the current snow removal disposal and de-icing procedures by the City of West Jordan for prevention and reduction of storm water pollution.

Permit Requirement: II.F.6.b.(1) – Pollution Prevention/Good Housekeeping

Objective: Operate snow removal and de-icing procedures in a manner to reasonably reduce the discharge of pollutants.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2004	Review snow removal/disposal practices and de-icing procedures to minimize pollutants entering the storm water runoff – <u>City pledge:</u> Complete review by August 1, 2003; implement changes by October 1, 2003.	Document current activities, evaluate effectiveness of program and implement any changes determined necessary
2003-2008	Annually, provide training on snow removal and de-icing procedures– <u>City pledge:</u> provide training annually.	Document training sessions, names and number of attendees

SALT PILE MANAGEMENT PROGRAM

Description: Develop proper procedures and facilities for salt pile storage to prevent migration of concentrated salt-water brines into ground water and into storm drain systems. Develop proper procedures and facilities pertaining to truck loading/unloading and materials handling to reduce potential storm water contamination.

Permit Requirement: II.F.6.b.(5) -- Pollution Prevention/Facilities Maintenance

Objective: Reduce salt contamination in storm water runoff from salt-pile storage yards and in percolation into the underlying groundwater system.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2008	Maintain list and site map of all SLCo, UDOT, and City of West Jordan salt pile storage and transfer locations within the City -- <u>City pledge:</u> compile map by October 1, 2003, and add to or revise map annually.	Update list and map as necessary
2000	Inspect City salt storage areas to observe the present pluses and minuses of the site relative to contamination controls, making note of cracks and faults at the site -- recognize that BMPs are to require the storage area to be in a lined-shallow pit -- to identify problems and possible solutions. <u>City pledge:</u> inspect the sites by October 1 of each year.	Document problems and possible solutions
2004	Conduct site inspection of salt storage areas during snow event -- <u>City pledge:</u> Inspect sites during winter, 2004.	Assess performance of existing controls and operations
2004	Observe and document handling and loading/unloading procedures at each of the sites prior to and during storm events -- <u>City pledge:</u> observe and document in late Fall and early Winter each year.	Assess handling and loading/unloading operations

STORM DRAIN SYSTEM WASTE DISPOSAL PROGRAM

Description: Review current disposal procedures for waste removed from the storm drain system, including catch basins, cleanout boxes, ditches and canals, detention basins, oil and grease separators, including dredge spoil, accumulated sediments, grit and salt from the Winter de-icing procedures, oil and grease and rubber residue from daily traffic movements, floatables, and other debris.

Permit Requirement: II.F.6.b.(2) – Pollution Prevention/Facilities Maintenance

Objective: Effective accumulation, collection, removal and disposal of waste from the storm drain system cleaning operations to reduce the discharge of pollutants into the City's storm water runoff facilities.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2004-2008	Review current storm drain waste removal/disposal practices and procedures – develop effective improvements – <i>City pledge:</i> Review operation, adding or revising, annually by March of each year, beginning 2004.	Assess where water quality impacts occur during operation, determine pollutants of concern, revise as necessary
2004-2008	Provide training to City personnel – <i>City pledge:</i> Include in annual training program.	Document training sessions, names, and number of attendees

STREET-SWEEPING WASTE DISPOSAL PROGRAM

Description: Review current disposal procedures for "sweepings debris" accumulated during street sweeping operations.

Permit Requirement: II.F.6.b.(2) – Pollution Prevention/Facilities Maintenance

Objective: Effective accumulation, collection, removal and disposal of waste from the street sweeping operations to reduce the discharge of pollutants into the City's storm water runoff facilities.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2004-2008	Review current disposal of City street sweeping waste removal/disposal practices and procedures – develop effective improvements – <u>City pledge:</u> Review operation, adding or revising, annually by March of each year, beginning 2004.	Document improvements
2004-2008	Provide training to City personnel – <u>City pledge:</u> Include in annual training program	Document training sessions, names, and number of attendees

ROAD CREW TRAINING PROGRAM

Description: Provide training regarding pollutants that can be discharged to the storm drain system during the routine maintenance work including road construction, road maintenance, and storm drain maintenance activities.

Permit Requirement: II.F.6.b.(3) – Pollution Prevention/Facilities Maintenance

Objective: Minimize pollutants entering storm drain system due to inadequate procedures and practices in the City's road construction and maintenance programs.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2004-2008	Review and assess current materials-loading, handling, and application procedures used in the City's road building and road maintenance program that may contribute pollutants to the City's storm drain system. Determine ways to make improvements that can eliminate, or reduce pollution – <u>City pledge:</u> Review and assess, making changes where necessary, in March of each year, beginning 2004.	Document current procedures, identified problem areas, and recommended revisions. Record changes and implement, as necessary
2003-2008	Provide training to City personnel involved in road construction and road maintenance – <u>City pledge:</u> Include in annual training program.	Document training sessions and names and number of attendees

POLLUTION PREVENTION PRACTICES FOR MAINTENANCE YARDS PROGRAM

Description: Assess existing conditions in City equipment yards and maintenance facilities. Identify improvements to pollutant discharge.

Train City personnel in methods and procedures to prevent pollutants and contaminations discharge.

Permit Requirement: II.F.6.b.(6) – Pollution Prevention/Facilities Maintenance

Objective: Minimize pollutants entering storm drain system from equipment and maintenance facilities.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2008	Maintain list and site map of all City, SLCo and UDOT equipment yards and maintenance facilities in West Jordan City – <u>City pledge:</u> To compose map by October 2003, and to add-to or correct as additional ones are created or deleted.	Compose map showing yards and facilities. Update list and map as necessary
2004-2008	Inspect City yards and facilities for materials handling, materials storage, and other routine operation procedures that can contribute to pollution of the City's storm water systems – <u>City pledge:</u> Inspect annually.	Document problems and possible solutions.
2003- 2008	Provide training for personnel working in equipment yards and maintenance facilities – <u>City pledge:</u> Include in annual training program.	Document training sessions and names and number of attendees

FLOOD CONTROL PROJECTS PROGRAM

Description: Assess City flood control projects for water quality concerns. Modify capital improvement projects as necessary.

Permit Requirement: II.F.6.c. -- Pollution Prevention/Facilities Maintenance

Objective: Evaluate water quality impacts of new and existing flood control projects. Include source and/or structural controls, and practices to reduce pollutants.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2004-2008	Design future flood control projects and storm water runoff facilities to control/reduce pollution. Assess past flood control project sites and facilities for possible renovations to further reduce pollution – <u>City pledge:</u> Design future and assess past City Capital Improvement Projects to address pollution control.	Document assessment results, the changes required, and the results of the changes, project by project
2003-2008	Provide training for Engineers and consultants to improve design standards – <u>City pledge:</u> Include in annual training program.	Document training sessions and names and numbers of attendees

CITY LITTER ORDINANCE / PUBLIC EDUCATION PROGRAM

Description: Revise/Develop a Litter Ordinance to reduce the discharge of litter (including floatables) to the storm drain system. Coordinate with Public Education and Outreach and the Public Involvement/Participation Programs for the same purpose (see "Adopt-A-Highway Program" Chapter Two, Page 5; Also, see "Floatable Control Program", Chapter Six, Page 4).

Permit Requirement: II.F.6.d. – Pollution Prevention/Facilities Maintenance
 II.F.6.a.(2) – Pollution Prevention/Good Housekeeping
 II.F.1. – Public Education and Outreach
 II.F.2. – Public Involvement/Participation

Objective: Minimize litter and floatables entering storm drain system.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003	Revise/Develop the City's Litter Ordinance to include floatable debris pollution to the City's storm water systems– <u>City pledge:</u> Rrevise/develop Ordinance by July 1.	Document procedures. Revise/Developed Ordinance in hand & presented to City Council
2003	Adoption of revised Litter Ordinance by City Council – <u>City pledge:</u> Adopt by September 1.	Document process
2003-2008	Implement and begin enforcement of new Ordinance – <u>City pledge:</u> Implement and enforce by October 1.	Document any investigation efforts and enforcement actions taken
2004-2008	Coordinate with Public Education and Outreach and Public Involvement/Participation Programs. <u>City pledge:</u> Begin coordination by April to June, 2004.	Document coordination activities and revise as necessary

PESTICIDE, HERBICIDE, AND FERTILIZER PROGRAM

Description: Maintain current inventory of Pesticide, Herbicide, and Fertilizer usage and evaluate that usage on City of West Jordan properties by municipal employees. Also, coordinate this program with the Public Education and Outreach Program (See Chapter One, Page 8).

Permit Requirement: II.F.6.(e) – Pollution Prevention/Facilities Maintenance

Objective: Minimize the discharge of pollutants to storm water from PHF procedures and practices.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2008	Review existing program and revise as needed – <u>City pledge:</u> complete by February 1 of each year.	Record existing program. Assess program and update as necessary
2003-2008	Evaluate other potential chemical or organic materials that can be used as alternate PHFs – <u>City pledge:</u> evaluate by July 1 each year, adding to or revising as necessary.	Document alternatives investigated, revise program accordingly
2003-2008	Evaluate application procedures and rates for PHF usage within the City. Make revisions as required – <u>City pledge:</u> evaluate and revise by July 1 each year.	Document alternatives investigated and revise program accordingly

SPILL PREVENTION AND RESPONSE PROGRAM

Description: Assess and inventory the City's current Spill Prevention and Response Program. Rewrite the Program where necessary. Maintain Personnel on call to respond to reports of spills or discharges, to identify and investigate the source of the discharge, and to use the regulatory authority to enforce actions against violators in correcting the illicit discharge activity. Correlate this program with the "Illicit Discharge And Improper Disposal Detection And Elimination Program (Chapter Three).

Permit Requirement: II.F.6.f.– Spill Prevention and Response
 II.F.3. – Illicit Discharges and Improper Disposals

Objective: Prevent spills from reaching storm drain systems and impacting receiving waters. Pursue enforcement actions against violators to discourage further violations.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2008	Inventory and assess current program, agency personnel, and equipment available for spill response and clean-up. Rewrite the program, or portions of the program, if required – <u>City pledge:</u> inventory and assess by July 1 each year, beginning 2003.	Document results of assessment and inventory tasks. Document new program or rewritten program, if rewriting found necessary.
2003-2008	Conduct spill response as necessary – <u>City pledge:</u> conduct as need arises.	Document response activities and any enforcement actions taken
2003-2008	Provide training to phone responders, as well as to spill site responders – <u>City pledge:</u> include in annual training program.	Document training sessions and names and number of attendees

CHAPTER SEVEN

CITY OF WEST JORDAN STORM WATER MANAGEMENT PROGRAM CONTROL MEASURE NUMBER SEVEN

INDUSTRIAL AND HIGH RISK RUNOFF PROGRAM

The Industrial and High Risk Runoff Program addresses the need to establish standards and controls for storm water discharges from industrial or high risk facilities, including presently operating or closed municipal landfills, treatment works, municipal incinerators, waste transfer stations, etc., municipal landfills, hazardous waste facilities, and industrial facilities that are subject to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA), and industrial facilities that are suspected of contributing substantial pollutant loading.

The BMPs described in this section of the SWMP include a landfill storm water management program, a plan to identify and inspect the landfill facilities, and a plan to monitor pollutants in the runoff from them.

The Industrial and High Risk Runoff Program will also be integrated with the "Illicit Discharges and Improper Disposal Program", (Chapter Three of this Plan), to reduce the impacts from these discharges on storm water quality. The following BMPs describe implementation tasks and assessment tasks to be completed by the City of West Jordan for the Industrial and High Risk Runoff Program.

LANDFILL PROGRAM

Description: The Trans-Jordan Landfill solid waste management facility owned by seven cities including West Jordan is located in the City of South Jordan, and is regulated in accordance with the Salt Lake County Health Department Regulation #.

Permit Program: II.G. – Industrial and High Risk Runoff

Objective: Support surface water quality monitoring at the Trans-Jordan Landfill facility to determine if the facility has an impact on storm water quality.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2008	South Jordan to continue monitoring program and review program adequacy – City pledge: to continue support of the consortium of Cities involved in this waste facility.	Document monitoring activities and update as necessary
2003-2008	South Jordan to continue review of the monitoring results – City pledge: to continue support in the review of monitoring results as part of the consortium of Cities involved in this waste facility.	Document investigation activities

IDENTIFICATION OF INDUSTRIAL AND HIGH RISK FACILITIES PROGRAM

Description: Identify industrial facilities in the City subject to Individual UPDES permits and which may contribute substantial pollutant loads to the storm drain system.

Permit Requirement: IIG. – Industrial and High Risk Runoff

Objective: Develop and maintain a database of the industrial facilities in the City which may contribute pollutants to the storm drain system. Develop controls or practices to reduce pollutants discharged to the storm drain system.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2003-2008	Maintain listing of industries by Standard Industrial Classification (SIC) codes – <u>City pledge:</u> complete the listing during October, 2003, and maintain each succeeding years.	Update database as necessary

INSPECTION OF INDUSTRIAL AND HIGH RISK FACILITIES PROGRAM

Description: Develop an inspection program designed to prioritize and limit pollutants discharged in storm water from industrial and high risk facilities located in the City of West Jordan to the MEP. Set required limits for the program.

Permit Requirement: II.G. – Industrial and High Risk Runoff

Objective: Inspect industrial and high-risk facilities for storm water runoff controls, with intent to determine the adequacy of such controls and to minimize impacts to storm water quality discharging from the facility.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2004	Develop Inspection Program – City pledge: develop by March 1, 2004.	Assess proposed program
2004	Define criteria to prioritize facilities, by such measures as pollutant type, pollutant load, etc. – City pledge: define by March 1, 2004	Document database and high risk categorization
2004-2008	Implement and enforce program – City pledge: to implement program by September 1, 2004 and to enforce in all succeeding years.	Document inspections, findings, and enforcement actions taken

MONITORING OF INDUSTRIAL AND HIGH-RISK FACILITIES PROGRAM

Description: Develop a storm water quality monitoring program for industrial and high risk facilities to determine if storm water controls are adequate.

Monitoring Program: Develop a storm water monitoring program for industrial and high risk facilities in accordance with the SLCo's UPDES permit. This program shall include a requirement that facilities disclose any information relating to UAC R317-8-3.4(7)(d)1,2, and (e). Analyses may include, but are not limited to:

- any pollutant listed in an existing UPDES permit
- oil & grease
- COD
- pH
- BOD₅
- TSS
- total phosphorous
- total Kjeldahl nitrogen
- nitrate plus nitrite nitrogen

Permit Requirement: II.G.– Industrial and High Risk Runoff
II.F.3.c.– Illicit Discharges and Improper Disposals

Objective: Reduce contaminants entering the storm drain system from industrial discharges.

Implementation and Assessment: The Table below represents measurable goals for this BMP to be implemented and assessed during the permit term.

Year	Implementation	Assessment
2005	Develop monitoring program for all eligible Industrial and all High-Risk facilities in the City – <u>City pledge:</u> develop by January 1, 2005.	Assess proposed program
2005-2008	Implement monitoring program for all such sites, including water sampling – continuing the program annually – <u>City pledge:</u> implement program by July 1, 2005; continue annually.	Document findings

2005-2008	Initiate compliance actions and issuing of Citations, as necessary— <u>City pledge:</u> enforce compliance actions by January 1, 2006, and continue enforcement actions in all succeeding years.	Document investigation and enforcement activities
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