



October 5, 2011

Notice of Public Hearing

Riverdale City Council
Tuesday, October 18, 2011
Which begins at 6:00 p.m.

Riverdale Civic Center
4600 South Weber River Drive
Riverdale, Utah

The Riverdale City Council will hold a public hearing to review a resolution adopting a Storm Water Plan for Riverdale City and receive and consider public comment. A copy of the Riverdale City Storm Water Management Program is available for review online at www.riverdalecity.com and in the Recorder's office at the Civic Center.

- The public is invited to attend all public meetings.
- In compliance with the Americans with Disabilities Act, persons who have need of special accommodations should contact the City Recorder at 394-5541 x 1232.



RIVERDALE CITY

STORM WATER

MANAGEMENT PROGRAM

Originally Prepared: August 2004
Revised: September 2006
New Permit Update (Major Revisions): August, 2011

Major Revisions by: J-U-B ENGINEERS, Inc.

INTRODUCTION

Polluted storm water runoff is often transported to municipal separate storm sewer systems (MS4s) and ultimately discharged into local rivers and streams without treatment. EPA's Storm Water Phase II Rule establishes an MS4 storm water management program that is intended to improve the Nation's waterways by reducing the quantity of pollutants that are introduced into storm sewer systems during storm events. Common pollutants include oil and grease from roadways, roadway salts and deicing materials, pesticides and fertilizers from lawns, sediment from construction sites, and carelessly discarded trash, such as cigarette butts, paper wrappers, and plastic bottles. When deposited into nearby waterways through MS4 discharges, these pollutants can impair the waterways, thereby discouraging use of the resource, contaminating water supplies, and interfering with the habitat for fish, other aquatic organisms, and wildlife.

In 1990, EPA promulgated rules establishing Phase I of the National Pollutant Discharge Elimination System (NPDES) storm water program. The Phase I program for MS4s requires operators of "medium" and "large" MS4s, that is, those that generally serve populations of 100,000 or greater, to implement a storm water management program as a means to control polluted discharges from these MS4s. The Storm Water Phase II Rule extends coverage of the NPDES storm water program to certain "small" MS4s but takes a slightly different approach to how the storm water management program is developed and implemented.

In the State of Utah, the EPA has granted primacy to the State of Utah to oversee and manage the storm water program. The State has adopted the Utah Pollutant Discharge Elimination System (UPDES) for that purpose. Riverdale City has prepared this Storm Water Management Program (SWMP) to meet the requirements of the UPDES Storm Water Discharge Permit for Small MS4s.

Storm Water Management Program

A Storm Water Management Program should:

- Reduce the discharge of pollutants to the "maximum extent practicable" (MEP);
- Protect water quality;
- Satisfy the appropriate water quality requirements of the Clean Water Act; and
- Be phased in over a five year period.

Storm water management programs must include:

- ❖ Best Management Practices (BMPs) for each of the six minimum control measures;

1. Public Education and Outreach
 2. Public Participation/Involvement
 3. Illicit Discharge Detection and Elimination
 4. Construction Site Runoff Control
 5. Post-Construction Runoff Control
 6. Pollution Prevention/Good Housekeeping
- ✧ Measurable goals for each minimum control measure (i.e., narrative or numeric standards used to gauge program effectiveness);
 - ✧ Estimated months and years in which actions to implement each measure will be undertaken, including interim milestones and frequency; and
 - ✧ The person or persons responsible for implementing or coordinating the storm water program.

Permit Application and Notice of Intent

Phase II Rule encourages the development of a storm water management program by requiring a Notice of Intent (NOI) describing the storm water management program to be submitted to the NPDES permitting authority. The Notice of Intent becomes the permit application.

Cities required to permit under Phase II are allowed to cooperate and work together with neighboring cities in the application process. The permittee may join with a Phase I city or another Phase II city in applying for a permit. The individual MS4s may share responsibility for program development with neighboring communities and/or take advantage of existing local or state programs.

Permit Requirements

The chosen measurable goals, submitted in the Notice of Intent as a permit application, become the required storm water management program; however, the NPDES permitting authority can require changes in the mix of chosen BMPs and measurable goals if all or some of them are found to be inconsistent with the provisions of the Phase II Final Rule. Likewise, the permittee can change its mix of BMPs if it determines that the program is not as effective as it could be.

Reports

The permit requires that the city review the SWMP annually, report on our activities and make any updates that might be required. The annual reports should use the

form provided by the State. Generally, the annual report should include the following information:

- ✧ The status of compliance with permit conditions, including an assessment of the appropriateness of the selected BMPs and progress toward achieving the selected measurable goals for each minimum measure;
- ✧ Results of any information collected and analyzed, including monitoring data if any;
- ✧ A summary of the storm water activities planned for the next reporting cycle;
- ✧ A change in any identified BMP or measurable goals for any minimum measure; and
- ✧ Notice of relying on another governmental entity to satisfy some of the permit obligations (if applicable).

Record Keeping

Records required by the State must be kept for at least 5 years and made accessible to the public at reasonable times during regular business hours. Records need not be submitted to the State unless the Permittee is requested to do so.

Deadlines

The following deadlines are recognized as part of the program:

Date	Description
February 1, 2012	Post Construction program implemented
February 1, 2012	Construction program implemented
February 1, 2012	IDDE program implemented

Penalties

The NPDES permit that the operator of a regulated small MS4 is required to obtain is federally enforceable, thus subjecting the Permittee to potential enforcement actions and penalties by the NPDES permitting authority if the permittee does not fully comply with application or permit requirements. This federal enforceability also includes the right for interested parties to sue under citizen suit provision (section 405) of CWA.

This document contains a description of the community-specific Storm Water Management Program for Riverdale City. The Program includes the following;

- ✧ Best Management Practices (BMPs) for each of the six minimum control measures;
 1. Public Education and Outreach
 2. Public Participation/Involvement
 3. Illicit Discharge Detection and Elimination
 4. Construction Site Runoff Control
 5. Post-Construction Runoff Control
 6. Pollution Prevention/Good Housekeeping
- ✧ Measurable goals for each minimum control measure (i.e., narrative or numeric standards used to gauge program effectiveness);
- ✧ Estimated months and years in which actions to implement each measure will be undertaken, including interim milestones and frequency; and
- ✧ The person or persons responsible for implementing or coordinating the storm water program.

This document also contains the following information and documentation in its appendices:

- ✧ Appendix A – Supplemental Guide to Storm Water Management for Contractors and Developers
- ✧ Appendix B – Supplemental Guide to Storm Water Management for Public Works Departments
- ✧ Appendix C – Standard Operating Procedures, Documentation and Elements of the Illicit Discharge Detection and Elimination program
- ✧ Appendix D – General program documentation including inspection forms, enforcement logs, training logs, annual reports, maintenance records, observation reports, and other general documentation
- ✧ Appendix E – Copies of the most current city ordinances applicable to stormwater
- ✧ Appendix F – Copies of State permits and documents regulating the Riverdale City storm water program

RIVERDALE CITY CHARACTERISTICS

General Information

The Riverdale City Storm Drain System falls under the Public Works Department for the City. The Public Works Director can be contacted at the following address and phone number:

Mr. Shawn Douglas
4600 S. Weber River Dr.
Riverdale, UT 84405
office: (801) 394-5541

Some general information for Riverdale City follows:

Population: 8,426

Size: 4.5 sq. miles

Geographic Description: Riverdale City is located on the Wasatch Front, on the south end of Weber County. The city is located along the Weber River Valley, with a large portion of the city being located in the bottom of the valley. Elevations in the city generally range between 4400 feet and 4300 feet above mean sea level.

Receiving Waters: Most of Riverdale drains into the Weber River, which empties into the Great Salt Lake.

Annual Precipitation: 15.83 inches per year

Type of Community: A major portion of the land use in the community is commercial with residential filling the remainder.

Latitude: 41.18° N

Longitude: 111.99° W

The Riverdale storm water system consists of curb and gutters, inlet boxes, piping, a few typical open channel sections, swales and canals. Most storm water facilities drain through piping directly into the Weber River. The Weber River generally drains from the southeast to the northwest through the city. The city is adjacent to Ogden City, Washington Terrace, South Weber and Roy Cities. There are a few detention basins

that exist within the system. Many of the streets use curb and gutter to collect storm water runoff with the remaining using swales or ditches. Most of the swales and ditches are located in parts of the city that have not yet been fully developed. The city is served by a sanitary sewer system that is treated by the Central Weber Sewer Improvement District. The city has an ordinance requiring any new development within 300 feet of the existing sanitary sewer to connect. There are some existing septic tank systems in the city, but all new developments are required to connect to the public sanitary sewer system.

History

Riverdale City is located in south central Weber County along the Weber River. Historically Riverdale City has been a crossroads for many. Riverdale is located just south of the confluence of the Weber and Ogden Rivers. Located near the mouth of Weber Canyon, Riverdale was settled primarily as a farming community with most homes being built near the river and land in the river bottoms being utilized for farming.

The first settlers in the Riverdale area arrived in the late 1840's and early 1850's. The river became a focal point for survival of these early residents. Water from the river was diverted through canals to irrigate the land. A mill was also constructed on the river to further provide a means of sustaining life. The river also provided a source of drinking water for those early settlers. The first community water system was begun in 1818 or 1819. Springs and wells now supply the city with culinary water.

Riverdale City was incorporated on March 4, 1946. As Utah began to grow Riverdale became the crossroads for major traffic flow. The Wasatch Front was originally connected via Highway 89. Now the Wasatch Front is connected by I-15. Riverdale is located at the intersection of I-15 and I-84 coming out of Weber Canyon. As a crossroads, Riverdale is a prime location for retail and commercial business. Riverdale Road is a regional thoroughfare of activity linking several communities in Weber County.

As a regional retail center, the retail shops in Riverdale attract many people from surrounding communities. At times, Riverdale feels like a much larger city than the 8,300 or so residents would indicate. This creates some unique challenges for the city. For its actual population, many of the services provided are similar in size and function to those of much larger cities. The challenge of staffing and supporting these services for a small city is ever present.

The Weber River has always been a focal point for activity and sustainability in Riverdale. This precious resource attracted the first settlers to the area and continues to be the backbone for activities today. The city has taken steps to protect and accentuate this resource. In recent years the city has completed a trail system running the length of the city along the river, encouraging its residents to make beneficial use of this corridor and enhancing the living experience and quality of life of the residents.

Local Water Quality Concerns

The water quality within Riverdale City is relatively good. None of the streams or waterways have been identified as protected under Section 303(d) of the Clean Water Act. The hope and intent of this Storm Water Management program (SWMP) is to maintain that status and possibly even improve the current water quality.

The storm water in Riverdale City flows from the foothills and river bottom bluffs to the river. Storm water from surrounding communities and facilities runs through Riverdale. Run on water from Washington Terrace, Hill Air Force Base, Roy, and Ogden City all come through portions of Riverdale. This run on water occurs in varying degrees at various locations.

With Riverdale's high retail and commercial base and with the two major interstates that run through and adjacent to the city, some of the biggest water quality concerns are with sediment and debris coming from hard-scaped roads, parking lots and roof tops. There is also concern with oils and grease, salts and deicing materials coming from the roadways. With the high percentage of retail and commercial establishments, general debris and floatables are also a primary concern. Of secondary concern there are fertilizers and pesticides and household hazardous wastes. These pollutants are the focus of the SWMP program.

Ongoing Documentation Process

With this revised SWMP our program has been restructured. The SWMP itself has been reorganized to make it more of a working document with multiple appendices to help the City do a better job in record keeping and documenting our activities. Much of the documentation is or will be included in Appendix D. As part of this update, the existing BMPs and measurable goals have been reviewed and assessed for their effectiveness and contribution in helping us achieve our desired results. We have completed evaluation worksheets to document our review and our assessment of our current program. These evaluation sheets are found in Appendix D. This evaluation provided the foundation for this update. We have tried to build off of the positive things that have been accomplished and renewed our commitment to improve in areas where our program has been lacking. We feel the revised program is more focused.

Our plan is to document our activities and to keep better track of what is happening within our community. This updated SWMP includes many new forms and reports to help us in these documentation efforts. Report forms, logs, evaluation forms and backup information is spread throughout the applicable appendices.

PUBLIC EDUCATION AND OUTREACH

Permit Requirements

The permit requirements for Public Education and Outreach on Storm Water Impacts can be found in Section 4.2.1 of the permit. A copy of the permit is included in Appendix F for reference. The permit outlines in general the following requirements.

1. The MS4 shall promote behavior change by the public to reduce water quality impacts associated with pollutants in storm water runoff and illicit discharges. This is a multimedia approach targeted to specific audiences. The four audiences are: (1) residents, (2) businesses, institutions, and commercial facilities, (3) developers and contractors (construction), and (4) MS4 industrial facilities.
2. The MS4 shall identify target pollutants and pollutant sources and their potential impacts relating to storm water quality.
3. The MS4 shall provide and document information given to the four focus audiences.
4. The MS4 shall provide documentation or rationale as to why particular BMPs were chosen for its public education and outreach program.

Summary of Existing Efforts

Educational Materials

The city publishes a newsletter monthly.

City used Media

Riverdale City has a website that is located at www.riverdalecity.com. This website includes a storm water page that includes both general and specific information. The storm water page is located under Public Works/Utilities.

Plan and Implementation Measures

In order to help meet the goals and objectives of this SWMP Riverdale City has chosen to adopt the following BMPs. Each BMP is cross referenced alphabetically by code in the indicated appendix to a fact sheet that describes the BMP, its applicability, its limitations, and its effectiveness. Only those BMPs listed below will be utilized by Riverdale City as part of their SWMP at the present time.

BMP	Code	Appendix
Classroom Education On Storm Water	CESW	B
Educational Materials	EM	B
Employee Training	ET	B
Public Education/ Participation	PEP	B
+Using Media	UM	B

Goals

In order to more fully realize the benefits of the BMPs the city has set the following goals. The goals set along with the existing efforts fulfill the requirements of the Final Storm Water Phase II Rule for Education and Outreach.

The following table includes the goals for MCM 1.

General Permit for Discharges from Small Municipal
 Separate Storm Sewer Systems (MS4s)
 Measurable Goals



MCM 1 Public Education and Outreach

MCM	Target		Desired Result	Measurable Goal	Milestone Date	Associated BMPs	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)					
1	Selected pollutants	Residents and Businesses	4.2.1.1 To educate audiences about impacts from storm water discharge and actions individuals can take to improve water quality	1.1 Continue supporting TV ads	Ongoing	PEP and UM	Ads continue to run
1	Selected pollutants	Residents (4th graders)	4.2.1.1 To educate audiences on ways to avoid, minimize, and reduce impacts of storm water discharge	1.2 Continue storm water fair annually	Annually	PEP and CESW	Fair occurs annually
1	See list in "desired result" column	General Public	4.2.1.2 Information is provided to target audience on prohibitions against illicit discharges and improper disposal of waste including: maintenance of septic systems; effects of outdoor activities, such as lawn care; benefits of on-site infiltration of storm water; effects of automotive work and car washing on water quality; proper disposal of swimming pool water; and proper management of pet wastes.	1.3 Include information on the website and include information in utility bills or city newsletter.	Ongoing	PEP and UM	Information is current on website and included in utility bills or city newsletter.

General Permit for Discharges from Small Municipal
 Separate Storm Sewer Systems (MS4s)
 Measurable Goals



MCM 1 Public Education and Outreach

MCM	Target		Desired Result	Measurable Goal	Milestone Date	Associated BMPs	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)					
1	See list in "desired result" column	Business and Institutions	4.2.1.3 Information is provided to target audience on prohibitions against illicit discharges and improper disposal of waste including: Proper lawn maintenance Benefits of appropriate on-site infiltration of storm water Building and equipment maintenance Use of salt or other deicing materials Proper storage of materials. Proper management of waste materials and dumpsters Proper management of parking lot surfaces.	1.4 Include information on the website and produce and distribute a brochure annually that is targeted to specific types of businesses.	Ongoing	PEP and UM	Information is current on website and included and brochures are distributed
1	Illicit discharge and waste	Contractors, Developers, and plan review staff	4.2.1.4 Reduce adverse impacts from development sites	1.5 Assemble packets of information on SWPPP and BMPs that the contractor must sign that it was received.	By Feb 2012	EM	Information packets are signed for every new development.

General Permit for Discharges from Small Municipal
Separate Storm Sewer Systems (MS4s)
Measurable Goals



MCM 1 Public Education and Outreach

MCM	Target		Desired Result	Measurable Goal	Milestone Date	Associated BMPs	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)					
1	Illicit discharge and waste	Employees	4.2.1.5 Information is provided to target audience on prohibitions against illicit discharges and improper disposal of waste including: Equipment inspection to ensure timely maintenance Benefits of appropriate on-site infiltration of storm water Minimization of use of salt or other deicing materials Proper storage of industrial materials Proper management of waste materials and dumpsters Proper management of parking lot surfaces.	1.6 Have training quarterly on illicit discharges.	First Quarter in 2012	ET	Training occurs every 5th Tuesday
1	All pollutants	Permittee engineers, development and plan review staff, land use planners	4.2.1.6 Training on LID, Green Infrastructure, and post construction BMPs	1.7 Require an annual meeting with all engineers, development and plan review staff, and land use planners to review the city's LID goals. Discuss what has been done in the past year to meet the goals, and define the upcoming year's goals.	By July 2011		Annual meeting occurs
1	All pollutants	All Audiences	4.2.1.7 Evaluate the effectiveness of the public education program by a defined method.	1.8 Conduct a survey by the end of the permit cycle to evaluate program effectiveness	End of permit cycle		Evaluation method chosen (2011) and implemented (2012)
1	All pollutants	All Audiences	4.2.1.8 Document why certain BMPs were chosen for public education program (over others)	1.9 Include an explanation in the SWMP.	October 2011		Documented rationale included in the SWMP.
1	All pollutants	General Public	To educate residents about catch basins draining to river	1.10 To evaluate the effectiveness of basin labels and if they should be continued and replaced or not	July 2014	PEP	If Basin labels are found to be effective 90% be replaced

PUBLIC PARTICIPATION / INVOLVEMENT

Permit Requirements

The permit requirements for Public Participation and Involvement on Storm Water Impacts can be found in Section 4.2.2 of the permit. A copy of the permit is included in Appendix F for reference. The permit outlines in general the following requirements.

1. Comply with applicable State, and local public notice requirements to involve interest groups and stakeholders for their input on the SWMP.
2. Make available to the public a current version of the SWMP document for review and input for the life of the permit. This should be posted on the City's website.

Summary of Existing Efforts

Storm Drain Labeling Program

The city has labeled all storm water basins utilizing volunteer groups to place the stencils. The city's program utilized the Weber County Inter-local agreement to provide the labels as part of the public education program.

Used Oil Recycling

There are several locations within the city boundaries where used oils and tires can be brought for recycling.

Waste Collection

Twice a year in the spring and fall the city conducts a general cleanup and a green waste cleanup. There are three locations in which residence can bring their waste for the city to dispose of.

Service Groups

There are local scout and church groups that have participated in street cleanup and litter reduction.

Plan and Implementation Measures

In order to help meet the goals and objectives of this SWMP Riverdale City has chosen to adopt the following BMPs for use within our city as applicable. Each BMP is cross referenced alphabetically by code to a fact sheet that describes the BMP, its applicability, its limitations, and its effectiveness in the indicated appendix.

BMP	Code	Appendix
Public Education/ Participation	PEP	B

Goals

In order to more fully realize the benefits of the BMPs the city has set the following goals. The goals set along with the existing efforts fulfill the requirements of the Final Storm Water Phase II Rule for Public Involvement and Participation.

The following table summarizes the goals for MCM 2.

**General Permit for Discharges from Small Municipal
Separate Storm Sewer Systems (MS4s)
Measurable Goals**

MCM 2 Public Involvement/Participation

MCM	Target		Desired Result	Measurable Goal	Milestone Date	Associated BMPs	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)					
2	All pollutants	General public	4.2.2.1 Have a program or policy in place that allows for the public to provide input	2.1 Set a date for a public hearing	By November 2011	PEP	The program or policy is in place
2	All pollutants	General public	4.2.2.3 Have SWMP document available to the public at all times	2.2 Post the SWMP on the website	By October 2011	PEP	SWMP is updated and posted on the website
2	All pollutants	General public	4.2.2.3 Make updated SWMP document available to the public annually	2.3 Post updated SWMP annually	Ongoing	PEP	SWMP is updated and posted on the website annually
2	All pollutants	General public	Continue current public involvement practices	2.4 Have bi-annual clean up days, provide dog litter bags	Ongoing	PEP	The public participates in the programs

ILLICIT DISCHARGE DETECTION AND ELIMINATION

Permit Requirements

The permit requirements for Illicit Discharge Detection and Elimination on Storm Water Impacts can be found in Section 4.2.3 of the permit. A copy of the permit is included in Appendix F for reference. The permit outlines in general the following requirements.

1. Maintain a storm sewer system map of the MS4, showing the location of all outfalls and the names and location of all State waters that receive discharges from those outfalls.
2. Through an ordinance, or other regulatory mechanism, a prohibition (to the extent allowable under State, or local law) on non-storm water discharges into the MS4, and appropriate enforcement procedures and actions.
3. Develop and implement a plan to detect and address non-storm water discharges, including spills, illicit connections, and illegal dumping to the MS4.
4. Develop and implement standard operating procedures (SOPs) for:
 - a. tracing the source of an illicit discharge.
 - b. characterizing the nature of, and the potential public or environmental threat posed by, any illicit discharges found or reported.
 - c. ceasing the illicit discharge, including notification of appropriate authorities, property owners, and technical assistance for removing the source and follow-up inspections.
5. Inform public employees, businesses, and the general public about the hazards associated with illegal discharges and improper disposal of waste.
6. Promote or provide services for the collection of household hazardous waste.
7. Publicly list and publicize a hotline or other local number for public reporting of spills and other illicit discharges.
8. Develop a written spill/dumping response procedure, and a flowchart for internal use, including various responsible agencies and their contacts.
9. Adopt and implement procedures for program evaluation and assessment.
10. Train employees, at a minimum, annually on the IDDE program.

Summary of Existing Efforts

Ordinances

Riverdale City has an ordinance designed to specifically prohibit illicit discharges to the storm sewer system.

Illicit Spills

Currently, reports of spills are handled by the Fire Department or County Health Department.

Illicit Connections

The City has not generally experienced problems with individuals or businesses illicitly connecting their sanitary waste water piping to storm drains. More-common types of illicit discharges include spills from highway accidents, concrete truck wash out water, residential yard waste and debris being washed into the gutters, and general litter and debris (floatables) originating from retail businesses and the general public.

Mapping

The city has a fairly comprehensive, storm drain map showing the storm drain system and its points of discharge. A copy of this map is included in Appendix G.

Plan and Implementation Measures

In order to help meet the goals and objectives of this SWMP Riverdale City has chosen to adopt the following BMPs for use within our city as applicable. Each BMP is cross referenced alphabetically by code to a fact sheet that describes the BMP, its applicability, its limitations, and its effectiveness in the indicated appendix.

BMP	Code	Appendix
Community Hotline	CH	B,C
Employee Training	ET	B,C
Hazardous Waste Management	HWM	B,C
Illegal Dumping Control	IDC	B,C
Identify Illicit Connections	IIC	B,C
Illegal Solids Dumping Controls	ISDC	B,C
Map Storm Water Drains	MSWD	B,C
Non-Storm Water Discharge to Drains	NSWD	B,C
Ordinance Development	OD	B,C
Public Education/ Participation	PEP	B,C
Used Oil Recycling	UOR	B,C

Goals

In order to more fully realize the benefits of the BMPs the city has set the following goals. The goals set along with the existing efforts fulfill the requirements of the Final Storm Water Phase II Rule for Illicit Discharge Detection and Elimination.

The following table includes the goals for MCM 3.

General Permit for Discharges from Small Municipal
 Separate Storm Sewer Systems (MS4s)
 Measurable Goals



MCM 3 Illicit Discharge and Elimination

MCM	Target		Desired Result	Measurable Goal	Milestone Date	Associated BMPs	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)					
3	All Pollutants	Contractors, Developers, City Council	4.2.3 Enforcement ability for storm water rules	3.1 Review and update the ordinance to conform with new permit	Draft by Feb 2012 & Final Feb 2012	OD	If ordinance is in place and meets the permit requirements
3	N/A	Public Works	4.2.3.1 Maintain Storm Water Map	3.2 Maintain current policy to update every project	Immediate	MSWD	If policy is in place and meets the permit requirements
3	All Pollutants	All Audiences	4.2.3.2 Develop, implement, and prepare in writing a plan to detect and address non-SW discharges	3.3 Do Dry weather screening 20% of all outfalls each year	1 July of each year	NSWD	Successful if all screens are done
3	"	"	"	3.4 Have SOP in place and training to Staff	Complete by Oct 15, 2011	NSWD	Successful if completed by that date and staff is following SOP
3	All Pollutants	All Audiences	4.2.3.4 Develop and implement standard operating procedures for tracing the source of illicit discharge	3.5 Train on flow charts	Complete by Oct 15, 2011	IIC	Successful if purchased by that date
3	All Pollutants	All Audiences	4.2.3.5 Develop and implement standard operating procedures for characterizing the nature of any illicit discharges found or reported to the Permittee by the hotline developed in 4.2.3.9	3.6 Create the Incidence Response Flow Chart and train personnel	Complete by Oct 15, 2011	IIC, CH	Successful if completed by that date and staff is following Flow Chart
	"	"	"	3.7 Add # to website	Oct 15 2011		
3	"	"	"	3.8 Review flow chart and SOP with staff and provide training annually.	Ongoing	IIC, CH	Successful if training is completed annually for all staff involved in incident reporting.
3	All Pollutants	All Audiences	4.2.3.6 Develop and implement standard operating procedures for ceasing the illicit discharge	3.9 Create the Incidence Response Flow Chart and train personnel	Complete by Oct 15, 2011	IDC, ISDC	
1	All Pollutants	Public Employees, Businesses and Residents	4.2.3.7 Inform public employees, businesses, and general public of hazards associated with illicit discharges and improper disposal of waste	3.10 See MCM 1		PEP, ET	See MCM 1
3	Household Hazardous Waste	Residents	4.2.3.8 Promote or provide services for the collection of household hazardous waste	3.11 Put the HHW Address and Phone number on City Web Site	Oct 15, 2011	UOR, HWM	Successful if complete by that date

MCM 3 Illicit Discharge and Elimination

MCM	Target		Desired Result	Measurable Goal	Milestone Date	Associated BMPs	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)					
3	Household Hazardous Waste	Residents	4.2.3.9 Publicly list and publicize a hotline or other telephone number for public reporting of spills and other illicit discharges	3.12 Put the HHW Address and Phone number on City Web Site	Oct 15, 2011	CH	Successful if complete by that date
3	All Pollutants	All Audiences	4.2.3.10 Adopt and implement procedures for program evaluation and assessment. Include a database for mapping, tracking of the spills or illicit discharges identified and inspections conducted	3.13 Create a spreadsheet for tracking Illicit Discharges and obtain documentation from Fire Department of spills covered	Oct 15, 2011	IIC, MSWD	Successful if complete by that date

CONSTRUCTION SITE RUNOFF CONTROL

Permit Requirements

The permit requirements for Construction Site Runoff Control on Storm Water Impacts can be found in Section 4.2.4 of the permit. A copy of the permit is included in Appendix F for reference. The permit outlines in general the following requirements

1. Have an ordinance or other regulatory mechanism requiring the implementation of proper erosion and sediment control practices on construction sites. This will include a requirement for a Storm Water Pollution Prevention Plan (SWPPP) and enforcement provisions.
2. Develop and implement Standard Operating Procedures (SOPs) for:
 - a. pre-construction SWPPP reviews to ensure plans are complete and in compliance with State and Local regulations.
 - b. construction site inspection and enforcement of construction storm water pollution control measures.
3. Train staff to implement the construction storm water program, including permitting, plan review, construction site inspections, and enforcement.
4. Establish procedures to maintain records of all projects disturbing greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development.

Summary of Existing Efforts

City Ordinances

The City currently has an ordinance that requires a storm water construction activity permit for construction activities. The application for this permit requires a completed Storm Water Pollution Prevention Plan (SWPPP).

Site Plan Review Process

The City currently has a procedure requiring the submittal of construction drawings prior to approving a new development. This process does not specifically require water quality impacts to be considered.

Inspectors

The City has one RSI registered inspector and is working to improve frequency and adequacy of construction site inspections.

Standard Drawings and Specifications

The city has a set of standard drawings and specifications for subdivision site development.

Plan and Implementation Measures

In order to help meet the goals and objectives of this SWMP Riverdale City has chosen to adopt the following BMPs for use within our city as applicable. Each BMP is cross referenced alphabetically by code to a fact sheet that describes the BMP, its applicability, its limitations, and its effectiveness in the indicated appendix .

BMP	Code	Appendix
Certification and Inspector Training	CCIT	A,B
Erosion Control Plan	ECP	A,B
Landscape and Irrigation Plan	LIP	A,B
Ordinance Development	OD	A,B
Zoning	ZO	A,B

Goals

In order to more fully realize the benefit of the BMP the city has set the following goals. The goals set along with the existing efforts fulfill the requirements of the Final Storm Water Phase II Rule for Construction Site Runoff Control.

The following table includes the goals for MCM 4.

General Permit for Discharges from Small Municipal
Separate Storm Sewer Systems (MS4s)
Measurable Goals

MCM 4 Construction Site Runoff Control



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
4	Sediment, Construction Site Debris, Hydrocarbons	Contractors and Developers	4.2.4.1 Raise awareness of contractors and developers on what is expected on construction sites	4.1 Require a SWPPP for every construction site over one acre	Feb. 2012	OD	Successful if 95% of all active construction sites have a working SWPPP
4	Sediment, Construction Site Debris, Hydrocarbons	Contractors and Developers	4.2.4.2 Develop a written enforcement strategy and implement the enforcement provisions of the ordinance or other regulatory mechanism	4.2 Draft ordinance to include escalating enforcement provisions	Feb. 2012	OD	Successful if completed by milestone
4	Sediment, Construction Site Debris, Hydrocarbons	Contractors and Developers, City Council, Plan Reviewers	Have an ordinance that is meaningful and enforceable	4.3 Revise ordinance to require a SWPPP on every active construction site over 1 acre	Feb. 2012	OD	If ordinance is in place and meets the permit requirements
4	"	"	"	4.4 Revise ordinance to include escalating enforcement provisions	Feb. 2012	OD	Successful if completed by milestone
4	"	"	4.2.4.2 Documentation and tracking of all enforcement actions	4.5 Develop and begin using a construction site enforcement action log/database	Feb. 2012	OD	Successful if we have a log and are using it
4	Sediment, Construction Site Debris, Hydrocarbons	Contractors and Developers	4.2.4.3 Develop and implement SOP's for pre-construction SWPPP review for construction sites	4.6 Develop checklist and begin to do preconstruction reviews of SWPPP	Feb. 2012	ECP	Successful if we are conducting SWPPP reviews

General Permit for Discharges from Small Municipal
Separate Storm Sewer Systems (MS4s)
Measurable Goals

MCM 4 Construction Site Runoff Control



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
4	"	"	4.2.4.3.1 Conduct a pre-construction meeting	4.7 Hold Pre-con meetings on all sites greater than 1 acre or as part of common plan of development	Immediately		Successful if we are conducting Pre-con meetings, coordinate with building and zoning department
4	"	"	4.2.4.3.2 Incorporate into the SWPPP review procedures the consideration of potential water quality impacts and procedures for pre-construction review which shall include the use of a checklist.	4.8 Develop a policy to consider potential water quality impacts on all projects - private or municipal	Feb. 2012	ZO	Memo or other documentation on 90% of project reviews
4	"	"	4.2.4.3.3 Incorporate into the SWPPP review procedures for an evaluation of opportunities for use of Low Impact Development (LID) and green infrastructure and when the opportunity exists, encourage such BMPs to be incorporated into the site design.	4.9 (1.) Have Building and Zoning make a list of LID practices to consider (2.) Make Fact Sheets available	Feb. 2012	ZO	Successful if we have post construction BMPs on 50% of projects
4	"	"	4.2.4.3.4 Identify priority construction sites, including at a minimum those construction sites discharging directly into or immediately upstream of waters that the State	4.10 Develop a "sensitive area" map showing areas within the city where "additional" protection may be desired	Feb. 2012	LIP	Successful when map is completed and ready for use

General Permit for Discharges from Small Municipal
Separate Storm Sewer Systems (MS4s)
Measurable Goals

MCM 4 Construction Site Runoff Control



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
4	Sediment, Construction Site Debris, Hydrocarbons	Contractors and Developers	4.2.4.4.1 Inspections of all new construction sites ... at least monthly by qualified personnel	4.11 Conduct monthly inspections of all construction sites - Emphasize self inspections sensitive areas to be inspected twice monthly	Feb. 2012	CCIT	Successful if 90% of all active construction sites are inspected monthly and documented
4	"	Contractors, developers and MS4 staff	4.2.4.5 Provide training to city staff and 3rd party designers	4.12 Develop a city policy to require all SWPPP inspectors to be RSI inspectors within 1 year	August, 2012	CCIT	Successful if completed by milestone
4	"	Contractors, developers and MS4 staff	4.2.4.4.2 ...The Permittee must include in its SWMP document a procedure for being notified by construction operators/owners of their completion of active construction so that verification of final stabilization and removal of all temporary control measures may be conducted.	4.13 Support State's on-line process once in place	Feb. 2012	ECP	Successful if 85% of all active construction sites are terminated appropriately
4	"	Contractors, developers and MS4 staff	"	4.14 Train SWPPP inspectors, their supervisors, and any personnel who grant final occupancy permits on the NOT process	Feb. 2012	ECP	Successful if 85% of all active construction sites are terminated appropriately
	"	"	4.2.4.4.3 Conduct Bi-weekly inspections on high priority construction sites	4.15 Inspect high priority sites	Feb. 2012	ECP	Successful if 85% of high priority sites are inspected bi-weekly

General Permit for Discharges from Small Municipal
 Separate Storm Sewer Systems (MS4s)
 Measurable Goals

MCM 4 Construction Site Runoff Control



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
	"	"	4.2.4.6 Maintain a log of permitted active construction sites	4.16 Establish a log	Feb. 2012	ECP	Successful if active construction sites are recorded in the log

POST CONSTRUCTION RUNOFF CONTROL

Permit Requirements

The permit requirements for Post-Construction Runoff Control on Storm Water Impacts can be found in Section 4.2.5 of the permit. A copy of the permit is included in Appendix F for reference. The permit outlines in general the following requirements

1. Have an ordinance or other regulatory mechanism requiring the implementation of long-term post-construction storm water controls at new and redevelopment sites.
2. Develop an enforcement strategy and implement enforcement provisions of the ordinance.
3. Develop requirements or standards for new development and redevelopment projects to include storm water controls or management practices that will prevent or minimize impacts to water quality.
4. Define specific hydrologic method for calculating runoff and flow rates to be used to size structural BMPs and facilitate plan review.
5. Adopt and implement procedures for site plan review which incorporate consideration of water quality impacts.
6. Develop, adopt and implement Standard Operating Procedures (SOPs) for site inspection and enforcement of post-construction storm water control measures.
7. Provide adequate training for staff concerning post-construction storm water management, plan review, inspections and enforcement.
8. Maintain an inventory of all post-construction structural storm water control measures. This includes public and private facilities.

Summary of Existing Efforts

Ordinances

The City has an ordinance allowing a maximum storm water discharge rate for new development. No other ordinances currently address runoff from construction sites or new development.

Landscaping Plans

Developers are required to present a plan outlining landscaping plans to the city.

Plan and Implementation Measures

In order to help meet the goals and objectives of this SWMP Riverdale City has chosen to adopt the following BMPs for use within our city as applicable. Each BMP is cross referenced alphabetically by code to a fact sheet that describes the BMP, its applicability, its limitations, and its effectiveness in the indicated appendix.

BMP	Code	Appendix
BMP Inspection and Maintenance	BMPIM	A,B
Educational Materials	EM	A,B
Infrastructure Planning	IPL	A,B
Landscape and Irrigation Plan	LIP	A,B
Ordinance Development	OD	A,B

Goals

In order to more fully realize the benefit of the BMP the city has set the following goals. The goals set along with the existing efforts fulfill the requirements of the Final Storm Water Phase II Rule for Post Construction Runoff Control.

The following table includes the goals for MCM 5.

General Permit for Discharges from Small Municipal
Separate Storm Sewer Systems (MS4s)
Measurable Goals

MCM 5 Post-Construction Management



MCM	Target		Permit Reference/Desired Result	Measurable Goal	Milestone Date	Assoc. BMP	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)					
5	All Pollutants	All Audiences	4.2.5.1. Develop and adopt an ordinance or other regulatory mechanism that requires long-term post-construction storm water controls at new development and redevelopment sites. (4.2.5.3.1 for flood control structure issues and 4.2.5.3.2 for LID)	5.1 Review existing ordinance to determine if it meets requirements of new permit - Use checklist from coaching sessions	October, 2012	OD	If review is complete
5	"	"	"	5.2 Draft ordinance revisions	Feb, 2012	OD	If draft is complete and ready for others to review
5	"	"	"	5.3 Adopt updated ordinance	Feb. 2012	OD	If ordinance has been passed
5	"	"	4.2.5.2.2 Documentation on how the requirements of the ordinance or other regulatory mechanism will protect water quality and reduce the discharge of pollutants to the MS4.	5.4 Draft a standard to require contractors and developers to submit documentation on: how long-term BMPs were selected, pollutant removal expected from the BMP, and technical basis supporting performance claims	Feb, 2012	IPL	If draft is completed by the milestone date
5	"	"	"	5.5 Adopt revised standard	Feb. 2012	IPL	

General Permit for Discharges from Small Municipal
Separate Storm Sewer Systems (MS4s)
Measurable Goals

MCM 5 Post-Construction Management



MCM	Target		Permit Reference/Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
5	"	MS4 Staff, City Council	4.2.5.3.3 The Permittee must develop a plan to retrofit existing developed sites that are adversely impacting water quality.	5.6 Update Storm Drain Master Plan and Capital Improvement Plan to include Water Quality	Dec. 2014	IPL	If CIP includes water quality projects
5	"	MS4 Staff, Contractors and Developers	4.2.5.3.4 Each Permittee shall develop and define specific hydrologic method or methods for calculating runoff volumes and flow rates...	5.7 Review existing design standards to see if they meet new permit requirements - see section 4.2.5.3.4	June, 2012	IPL	If standards have been reviewed and comments made
5	"	"	"	5.8 Update design standards	Dec. 2012	IPL	If updated standards have been adopted
5	"	"	4.2.5.4.1 Review Storm Water Pollution Prevention Plans (SWPPPs)	5.9 See goals for MCM 4			
5	"	"	4.2.5.4.2 Permittees shall provide developers and contractors with preferred design specifications to more effectively treat storm water for different development types...projects located in, adjacent to, or discharging to environmentally sensitive areas.	5.10 Locate environmentally sensitive areas within the MS4	Dec, 2011	IPL	Completed map identifying environmentally sensitive areas

General Permit for Discharges from Small Municipal
 Separate Storm Sewer Systems (MS4s)
 Measurable Goals

MCM 5 Post-Construction Management



MCM	Target		Permit Reference/Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
5	"	"	"	5.11 Review map of sensitive areas and identify preferred method(s) of treating storm water to discharge to those areas	Dec. 2012	IPL	List of preferred method(s)
5	"	"	4.2.5.4.3 Permittees shall keep a representative copy of information that is provided to design professionals;...the dates of the mailings and lists of recipients.	5.12 Keep a revision log for information in Appendix A - Supplemental Guide to Contractors and Developers	Dec, 2011	EM	If revision log is filled out for all revisions
5	"	"	"	5.13 Log name and date of distribution of Supplemental Guide to Contractors and Developers	Dec, 2011	EM	If log is up to date and current
5	"	"	4.2.5.5. All Permittees shall adopt and implement SOPs or similar type of documents for site inspection and enforcement of post-construction storm water control measures.	5.14 Review and customize SOPs for inspection and enforcement of post-construction control measures	Dec, 2011	LIP	If inspection and enforcement SOPs are current and being utilized?

General Permit for Discharges from Small Municipal
 Separate Storm Sewer Systems (MS4s)
 Measurable Goals

MCM 5 Post-Construction Management



MCM	Target		Permit Reference/Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
5	"	"	4.2.5.5.1 ... require private property owner/operators or qualified third parties to conduct maintenance and provide annual certification that adequate maintenance has been performed and the structural controls are operating as designed to protect water quality. In this case, the Permittee must require a maintenance agreement addressing maintenance requirements for any control measures installed on site.	5.15 Draft a maintenance agreement template	July, 2012	BMPIM	If draft is completed by the milestone date
5	"	"	"	5.16 Adopt a maintenance agreement template	Dec, 2012	BMPIM	If template is adopted and being used by milestone date

General Permit for Discharges from Small Municipal
 Separate Storm Sewer Systems (MS4s)
 Measurable Goals

MCM 5 Post-Construction Management



MCM	Target		Permit Reference/Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
5	"	"	4.2.5.5.3 Inspections and any necessary maintenance must be conducted annually by either the Permittee or through a maintenance agreement, the property owner/operator. On sites where the property owner/operator is conducting maintenance, the Permittee shall inspect those storm water control measures at least once every five years, ...	5.17 Inventory post-construction BMPs - see 4.2.5.7.1 for inventory inclusion items	March, 2012	BMPIM	If inventory is complete
5	"	"	"	5.18 Identify who is responsible to inspect and/or maintain each post-construction BMP	March, 2012	BMPIM	If list identifies person responsible for inspections/maintenance
5	"	"	"	5.19 Develop inspection report form for post-construction BMPs	March, 2012	BMPIM	If form is completed
5	"	"	"	5.20 Conduct inspections annually for city owned BMP's	Ongoing	BMPIM	If completed inspection reports are properly filed

General Permit for Discharges from Small Municipal
 Separate Storm Sewer Systems (MS4s)
 Measurable Goals

MCM 5 Post-Construction Management



MCM	Target		Permit Reference/Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
5	"	MS4 staff	4.2.5.6. Permittees shall provide adequate training for all staff involved in post-construction storm water management, planning and review, and inspections and enforcement.	5.21 Schedule and conduct training for appropriate personnel	Annually	BMPIM	If all appropriate personnel are trained
5	"	"	4.2.5.7 Maintian an inventory of post construction BMP's	5.22 Inventory log updated annually	Ongoing		If log is updated

POLLUTION PREVENTION / GOOD HOUSEKEEPING

Permit Requirements

The permit requirements for Pollution Prevention and Good Housekeeping on Storm Water Impacts can be found in Section 4.2.6 of the permit. A copy of the permit is included in Appendix F for reference. The permit outlines in general the following requirements

1. Develop and implement an operation and maintenance program for city-owned or operated facilities.
2. Maintain an inventory of city-owned or operated facilities and storm water controls. Assess said list for their potential to discharge typical urban pollutants to the storm water system.
3. Identify 'high-priority' facilities or operations that have a high potential to generate storm water pollutants. Included with Standard Operating Procedures (SOPs) specific to municipal operations. The SOPs shall include appropriate pollution prevention and good housekeeping procedures for all of the following types of facilities and/or activities listed below:
 - a. Buildings and facilities
 - b. Material storage areas, heavy equipment storage areas and maintenance areas
 - c. Parks and open spaces
 - d. Vehicle and equipment
 - e. Roads, highways, and parking lots
 - f. Storm water collection and conveyance system
 - g. Other facilities and operations (those not listed, but would reasonably be expected to discharge contaminated runoff)
4. If a third-party is to conduct municipal maintenance or private developments conduct their own maintenance, the contractor shall be held to the same standard as the City. This should be outlined and defined in contracts.
5. Inspection schedules and logs should be part of the O&M program.
6. Develop and implement a process to assess the water quality impacts in the design of all new flood management structural controls that are associated with the MS4.
7. City construction projects shall comply with the requirements applied to private projects.
8. Include employee training on how to incorporate pollution prevention and good housekeeping techniques into municipal operations, including SOPs.

Summary of Existing Efforts

Existing Maintenance Program

The City currently maintains inlet boxes and other MS4 improvements on an as-needed basis. Streets are also swept as-needed.

Plan and Implementation Measures

In order to help meet the goals and objectives of this SWMP Riverdale City has chosen to adopt the following BMPs for use within our city as applicable. Each BMP is cross referenced alphabetically by code to a fact sheet that describes the BMP, its applicability, its limitations, and its effectiveness in the indicated appendix.

BMP	Code	Appendix
Employee Training	ET	A,B
Housekeeping Practices	HP	A,B
Infrastructure Planning	IPL	A,B

Goals

In order to more fully realize the benefit of the BMP the city has set the following goals. The goals set along with the existing efforts fulfill the requirements of the Final Storm Water Phase II Rule for Pollution Prevention/Good Housekeeping.

The following table includes the goals for MCM 6.

General Permit for Discharges from Small Municipal
 Separate Storm Sewer Systems (MS4s)
 Measurable Goals

MCM 6 Pollution Prevention and Good Housekeeping



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
6	All pollutants	MS4 staff	4.2.6 ...All components of an O & M program shall be included in the SWMP document and must identify the department (and where appropriate, the specific staff) responsible for performing each activity described in this section...	6.1 Complete Org chart and define specific responsibilities for all departments shown	Sep. 2011	HP	If org chart is complete and up to date by milestone date
6	"	"	4.2.6.1. Permittees shall develop and keep current a written inventory of Permittee-owned or operated facilities	6.2 Complete listing of MS4 owned/operated facilities	Sep. 2011	HP	If list is completed by milestone date
6	"	"	4.2.6.2. All Permittees must initially assess the written inventory of Permittee-owned or operated facilities, operations and storm water controls identified in Part 4.2.6.1. for their potential to discharge to storm water the following typical urban pollutants:	6.3 Complete assessments and identify "high priority" facilities	Sep. 2011	HP	If assessments are completed and documentation recorded in SWMP
6	"	"	4.2.6.4. Each "high priority" facility identified in Part 4.2.6.3. must develop facility-specific standard operating procedures (SOPs) or similar type of documents.	6.4 Review, customize and update appropriate SOPs	Sep. 2011	HP	If SOPs are updated and current by milestone date

General Permit for Discharges from Small Municipal
Separate Storm Sewer Systems (MS4s)
Measurable Goals

MCM 6 Pollution Prevention and Good Housekeeping



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
6	"	"	4.2.6.6.1 Weekly visual inspections: The Permittee must perform weekly visual inspections of "high priority" facilities in accordance with the developed SOPs to minimize the potential for pollutant discharge.	6.5 Develop weekly inspection form and log	Sep. 2011	HP	Completed inspection form and log
6	"	"	"	6.6 Conduct weekly inspections	Ongoing	HP	If at annual review all weekly inspections are logged and reports completed
6	"	"	4.2.6.6.2 Quarterly comprehensive inspections: At least once per quarter, a comprehensive inspection of "high priority" facilities, including all storm water controls, must be performed	6.7 Develop quarterly inspection form(s) and log	Sep. 2011	HP	Completed inspection form and log
6	"	"	"	6.8 Conduct quarterly comprehensive inspections	Ongoing	HP	If at annual review all quarterly inspections are logged and reports completed

General Permit for Discharges from Small Municipal
 Separate Storm Sewer Systems (MS4s)
 Measurable Goals

MCM 6 Pollution Prevention and Good Housekeeping



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
6	"	"	4.2.6.6.3 Quarterly visual observation of storm water discharges: At least once per quarter, the Permittee must visually observe the quality of the storm water discharges from the "high priority" facilities	6.9 Conduct quarterly visual observations of storm water discharges at high priority facilities	Ongoing	HP	If at annual review all quarterly visual monitoring is completed and logged and reports completed
6	"	MS4 Staff, Contractors and Developers	4.2.6.7. The Permittee must develop and implement a process to assess the water quality impacts in the design of all new flood management structural controls that are associated with the Permittee or that discharge to the MS4.	6.10 Draft a policy/process to assess water quality impacts on all new flood control projects	Oct-11	IPL	If draft is prepared and ready for internal review process by milestone date
6	"	"	"	6.11 Get policy approved	Dec. 2011	IPL	If policy is approved and adopted by milestone date
6	"	MS4 staff	4.2.6.7.1 Existing flood management structural controls must be assessed to determine whether changes or additions should be made to improve water quality.	6.12 See MCM 5 for goals (part of the retrofit program)			

General Permit for Discharges from Small Municipal
Separate Storm Sewer Systems (MS4s)
Measurable Goals

MCM 6 Pollution Prevention and Good Housekeeping



MCM	Target		Desired Result	Measurable Goal	Milestone	Assoc.	Measure of Success (Effectiveness)
	Pollutant(s)	Audience(s)			Date	BMP	
6	"	"	4.2.6.9. Permittees shall provide training for all employees who have primary construction, operation, or maintenance job functions that are likely to impact storm water quality.	6.13 20% of Topics covered every year	ongoing		
6	"	"	"	6.14 Use training topic list to provide training	Sep. 2011	ET, HP	If schedule is complete by milestone date
6	"	"	"	6.15 Conduct ongoing training according to schedule	Ongoing	ET, HP	If training is completed and documented according to schedule at annual evaluation
6	"	"	To keep road sediments from entering the storm drain	6.16 Fill potholes annually and sweep streets semi-annually	Annually, semiannually	HP	If pot holes are filled and streets continue to be swept

STATE OF UTAH, DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER QUALITY
 195 North 1950 West, P.O. Box 144870, Salt Lake City, Utah 84114-4870 (801)536-4300

Notice of Intent (NOI) for Coverage Under the UPDES General Permit for Discharges from Small Municipal Separate Storm Sewer Systems (MS4's), Permit No. UTR090000.



INSTRUCTIONS ON BACK PAGE

DWQ USE ONLY

Coverage No. _____

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by a UPDES permit issued for storm water discharges from Small Municipal Separate Storm Sewers in the State of Utah. Becoming a permittee obligates such discharger to comply with the terms and conditions of the permit. ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM.

Part I. General Information

Governmental Entity Name: ELI UBERDIALE CITY, UTAH

Mailing Address: Street 4160 SOUTH WEBER RIVER DR

City ELI UBERDIALE State UT Zip Code 84405

Operator Type (Circle One): (City) County, Hospital, Prison, Military Base, Park, College/University, UDOT, Sewer District, Flood Control District, Drainage District, Association, Other(list)

Operator Status (Circle One): (Federal/State/Local) Other Public Entity(list)

Operator Contact Person: Name KAREN HANSEN

Title CITY ADMINISTRATOR Telephone Number 801-394-5541 Ext 1233

Latitude/Longitude at Center of land for which you are requesting authorization to discharge:

Latitude 41-10-22 Longitude 112-00-08

Population served by your MS4: 18426 People

Storm Water Management Program Responsible Person:

Name SHAWN DUGLASS Title PUBLIC WORKS DIRECTOR

Telephone Number 801-394-5541 Ext 1217

Part II: Outfalls and Receiving Waters

Receiving Waters: List all separate storm water outfall receiving waters (all discharges to waters under the definition of waters of the State). If all receiving waters are not known at the time of the NOI submittal, list known outfalls and update the list on annual reports. (ATTACH ADDITIONAL SHEETS AS NEEDED)

	Outfall	Receiving Water
1.	3550 SOUTH	WEBER RIVER
2.	3750 SOUTH (2)	WEBER RIVER
3.	3950 SOUTH	WEBER RIVER
4.	PACIFIC AVE (2)	WEBER RIVER
5.	4300 SOUTH	WEBER RIVER
6.	4400 SOUTH (2)	WEBER RIVER
7.	4600 SOUTH (3)	WEBER RIVER
8.	UNION PACIFIC AVE	WEBER RIVER
9.	RIVER PARK DRIVE (2)	WEBER RIVER

Part III. Initial Identification of Best Management Practices (ATTACH ADDITIONAL SHEETS AS NEEDED)

1. Public Education and Outreach on Storm Water Impacts

Outreach Techniques

- Classroom education/school programs
- Outreach to commercial entities
- Printed material
- Media campaign
- Classroom educational materials
- Events and Programs
- Displays
- Speakers to community groups
- Economic Incentives
- Promotional giveaways
- Others

..... WEBER COUNTY

Management Practices to Encourage

- Proper lawn and garden care (fertilizer and pesticide use, sweeping, etc.)
- Low Impact development
- Pet waste management
- Pollution prevention for businesses
- Proper disposal of household hazardous wastes
- Water Conservation Practices
- Others

..... WEBER COUNTY

2. Public Involvement/Participation

Involvement Techniques

- Advisory/partner committees
- Local storm water contact
- Public access to documents and information
- Public review of plans and annual reports
- Watershed organizations
- Attitude surveys
- Community hot lines
- Stakeholder meetings
- Others

Participation Activities

- Adopt-a-stream
- Storm drain stenciling
- Stream/roadway cleanup
- Volunteer monitoring
- Wetland plantings
- Others

..... WEBER COUNTY

3. Illicit Discharge Detection and Elimination

Detection and Elimination Activities

- System mapping
- Regulatory Control Program
- Identifying and Eliminating Illicit connection procedures
- Dye testing/Tracing Procedures
- System Inspections
- Dry Weather Screening Program/ Field Testing
- Others

Type of Discharges to Target

- Failing septic systems
- Illegal dumping
- Industrial/business connections
- Recreational sewage
- Sanitary sewer overflows
- Wastewater connections to the storm drain system
- Others

4. Construction Site Storm Water Runoff Control

Program Activities

- Regulatory Control Program
- Erosion and Sediment Control BMP's
- Other Waste Control Program
- Site Plan Review Procedures
- Public Information handling Procedures
- Site Inspection/Enforcement Procedures
- Other Construction Site Runoff Controls
- Contractor certification and inspector training
- Others

Best Management Practices

- Construction Entrance/Exit Stabilization
- Perimeter Controls
- Sediment Retention Structure Requirements
- Sediment filters and sediment chambers
- Mulching Requirements
- Temporary/Permanent Stabilization Requirements
- Vehicle maintenance and washing areas
- Cement Truck Washout Area
- Other BMP's

5. Post-Construction Storm Water Management in New Development and Redevelopment

- Community Control Strategy
- Regulatory Control Program
- Long Term O & M Procedures
- Pre-Construction Review of BMP Designs
- Site Inspections During Construction
- Post Construction Inspections
- Others

- Infiltration trench/basin
- Infrastructure planning
- storm water inlet specifications
- Narrower residential streets
- Open space design
- Ordinances for post construction runoff
- Storm water wetland
- Zoning
- Others:

6. Pollution Prevention/Good Housekeeping for Municipal Operations

- Employee Training Program
- Inspection and Maintenance Program
- Municipal Operations Storm Water Control
- Others

..... SALT STORAGE BUILDING

- Municipal Operations Waste Disposal
- Flood Management/Assessment Guidelines
- Others:

Part IV. Initial Identification of Measurable Goals (Attach additional sheets as needed)

1. Public Education and Outreach on Storm Water Impacts

Measurable goals (with start and end dates):

SEE STORM WATER MANAGEMENT
PLAN (SWMP)

Milestones: Year 1:
Year 2:
Year 3:
Year 4:
Year 5:

4. Construction Site Storm Water Runoff Control

Measurable goals (with start and end dates):

SEE SWMP

Milestones: Year 1:
Year 2:
Year 3:
Year 4:
Year 5:

2. Public Involvement/Participation

Measurable goals (with start and end dates):

SEE SWMP

Milestones: Year 1:
Year 2:
Year 3:
Year 4:
Year 5:

5. Post-Construction Storm Water Management in New Development and Redevelopment

Measurable goals (with start and end dates):

SEE SWMP

Milestones: Year 1:
Year 2:
Year 3:
Year 4:
Year 5:

3. Illicit Discharge Detection and Elimination

Measurable goals (with start and end dates):

SEE SWMP

Milestones: Year 1:
Year 2:
Year 3:
Year 4:
Year 5:

6. Pollution Prevention/Good Housekeeping for Municipal Operations

Measurable goals (with start and end dates):

SEE SWMP

Milestones: Year 1:
Year 2:
Year 3:
Year 4:
Year 5:

Part V. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: LAUREY HANSEN

Signature: _____

Date: 11/11/11

City
Administrator
Larry Hansen
801-394-5541
Ext 1233

Police Chief
Dave Hansen
801-394-5541
Ext. 1255

Fire Chief
Doug Illum
801-394-5541
Ext.1284

Dir of Community
Development
Randy Daily
801-394-5541
Ext. 1215

Public Works
Dir.
Shawn
Douglas
801-394-5541
Ext. 1217

Dir. Legal
Services
Steve Brooks
801-394-5541
Ext. 1244

Code Enforcement
Bonnie Jones
801-394-5541
Ext. 1252

Building Official
Jeff Woody
801-394-5541
Ext. 1216

Public Works
Crew Leader
Kirk Favero
801-394-5541
Ext.1235

Parks
Crew Leader
Norm Farrell
801-394-5541
Ext. 1236

Fleet
Maintenance
Kelly Rose
801-394-5541
Ext. 1218

Organization Chart Responsibilities For Storm Water

City Administrator

- Oversight of all departments
- Liaison with administration and City Council

Public Works Director

- Liaison with administration and Department Heads
- General coordination of the Storm Water Pollution Prevention (SWPP) program
- Annual report

Public Works Crew Leader

- Oversee SWPP program specifics
- Responsible for shared facilities and general work areas including:
 - Large equipment wash area
 - Salt and materials storage stockpile areas
 - Storm drain system maintenance
 - General BMP maintenance
 - Small vehicle wash area
- Updating SWPPP
- Tracking and documentation of activities and actions
- Database updates
- Engineering support
- Help with all reporting
- Storm Drain mapping
- Training public works dept. personnel
- Public Works equipment operation
- Equipment maintenance for water dept. equipment
- Snow plowing program
- Street sweeping program
- Salt and materials storage stockpile areas

Parks Department Crew Leader

- Parks dept. maintenance work activities and areas
- Pesticide, Herbicide, and Fertilizer (PHF) program
- Training parks dept. personnel
- Chemical and fertilizer storage in work area
- Parks department equipment operation
- Equipment maintenance for parks dept. equipment
- Mowing, grounds maintenance program

Fleet Department

- Fleet dept. maintenance work activities and areas
- Chemicals, fluids, and oils in work area, waste oils/fluids
- Metal fabrication area
- MSDS Program

- Community Development
- Plan Review
- Construction Site Inspections
- Liaison with Contractors

Fire Department

- Emergency Response
- Spill clean up
- Coordination With health department

Police

- Ordinance enforcement
- Criminal Investigations
- Scene control

Legal

- Ordinances
- Prosecution
- Legal Council

Activity	Target Pollutants	Target Audiences	Measurable Goal	Document/Data/Proof of Completion	Document Location	Responsible Person/Party
TV Advertisements	1-17	1-4	Purchase annually	Invoice	Coalition Documentation Binder	Coalition Chairman
Monthly Coalition Meeting	1-17	1-4	Meet 10 times annually	Agenda, Minutes, Attendance List	Binder	Coalition Chairman
4th Grade Lessons	1-7,15	1	Teach all public 4th grade classes annually	Invoice, Teacher's lesson plan, school visitation schedule	Binder	Coalition Chairman
Purchase Education Materials						
Booklets & Balls	1-7,15	1	Purchase enough for all 4th grade classes annually	Invoice	Binder	Coalition Chairman
BMP Manual	3,8	3,4	Review annually	Finished document	Binder	Coalition Chairman
Pamphlets	2,3,6,9-14,16	1-4	Develop 1 pamphlet annually	Invoice, finished document	Binder	Coalition Chairman
Stickers (gas station)	17	1,2	Purchase when supply is depleted	Invoice, finished products	Binder	Coalition Chairman
Pencils & Magnets	1-17	1	Have continually available	Invoice, finished products	Binder	Coalition Chairman
Curb Markers	1-17	1	Have continually available	Invoice, finished products	Binder	Coalition Chairman
Water Fair	1-7,15	1	Hold one event annually	Invoices	Binder	Coalition Chairman
Trainings	1-17	3,4	Hold one training annually	Invoice, Invitation, Agenda, Attendance List	Binder	Coalition Chairman
County Drainage Map	15	4	Request updates annually	Minutes of Coalition meeting	Binder	Coalition Chairman
Spill Report Hotline	15	1-4	Get reports semi-annually	Report on calls received	Binder	Coalition Chairman
Standard Operating Procedures	1-17	4	Review & update annually	Finished document	Binder	Coalition Chairman
StormCon Conference	1-17	4	Send 3 coalition members annually	Invoices	Binder	Coalition Chairman
SWAC Meeting Attendance	1-17	4	Have 1 voting member and 1 alternate assigned and present 90%	Attendance sheet, minutes	Binder	Coalition Chairman
Interlocal Agreement	1-17	1-4	Execute once per permit cycle	Executed document	Binder	Coalition Chairman
Model Ordinance	1-17	1-4	Have available by July 2011	Finished document, subcommittee minutes	Binder	Coalition Chairman

Account Number	Account Title	2009-10 Prior year Actual	2010-11 Current year Budget	2010-11 Current year Actual	2011-11 Current year Projected actual	2011-12 Future year Budget
STORM WATER FUND						
STORM WATER REVENUE						
53-39-1000	STORM WATER FEES	220,574.90	220,000.00	202,444.00	221,060.00	220,000.00
	Budget notes:					
	\$2.20 per ESU or residence per month					
53-39-3000	TRANSFER FROM OTHER FUNDS	.00	113,650.00	.00	227,300.00	.00
53-39-3100	MISCELLANEOUS REVENUE	.00	.00	.00	.00	.00
53-39-3500	CONTRIBUTIONS FROM DEVELOPER	58,872.00	.00	.00	.00	.00
53-39-6100	INTEREST REVENUE	7,310.56	7,500.00	4,778.68	5,520.00	6,000.00
	Total STORM WATER REVENUE:	286,757.46	341,150.00	207,222.68	453,880.00	226,000.00

Account Number	Account Title	2009-10 Prior year Actual	2010-11 Current year Budget	2010-11 Current year Actual	2011-11 Current year Projected actual	2011-12 Future year Budget
STORM WATER EXPENSES						
53-60-3200	ENGINEERING	31,870.16	15,000.00	9,449.80	12,481.00	15,000.00
53-60-3300	PROFESSIONAL SERVICES	8,459.70	5,000.00	487.50	.00	5,000.00
53-60-3700	INSPECTION SERVICES	.00	.00	.00	.00	.00
53-60-4500	SPECIAL DEPARTMENT EXPENSES	1,233.03	12,400.00	5,959.67	5,572.00	6,000.00
Budget notes:						
Includes \$1,000 for dumping of street sweepings						
53-60-4600	MISCELLANEOUS	88.30	500.00	526.04	701.00	500.00
53-60-5300	DEPRECIATION EXPENSE	32,054.00	24,000.00	22,000.00	24,000.00	40,000.00
53-60-5600	INFO TECHNOLOGY PAYMENTS	2,004.00	2,000.00	1,837.00	2,004.00	2,000.00
53-60-6200	CAPITAL OUTLAY	.00	1,232,500.00	696,156.14	880,000.00	349,500.00
Budget notes:						
Project 3 - 4350 S. Street - Piping and Collection Improvements \$6,700						
Project 5 - 5175 S. - 1200 W, Intersection - Piping and Collection Improvements \$86,400						
Project 6 - 4800 S. - 1700 W. Intersection - Piping and Collection Improvements \$21,100						
Project 7 - Cherry Drive, Piping Upgrade Improvements \$163,700						
Project 8 - 4300 S. 700 W. - Inter. - Piping and Collection Improvements \$22,300						
Project 9 - 1150 W. - 5500 S. Intersect & 1106 W. 5475 S. - Improvements \$49,300						
Total STORM WATER EXPENSES:		75,709.19	1,291,400.00	736,416.15	924,758.00	418,000.00
STORM WATER FUND Revenue Total:		286,757.46	341,150.00	207,222.68	453,880.00	226,000.00
STORM WATER FUND Expenditure Total:		75,709.19	1,291,400.00	736,416.15	924,758.00	418,000.00
Net Total STORM WATER FUND:		211,048.27	950,250.00-	529,193.47-	470,878.00-	192,000.00-