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STORMWATER MANAGEMENT PLAN
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 Title 17, Chapter 17.22

 SLCoHD #13 & #14

 UAC R317-1.9

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LIST OF ACRONYMS

BMP	Best Management Practice
County	Salt Lake County
DWQ	Utah Division of Water Quality
EPA	Environmental Protection Agency
IDDE	Illicit Discharge Detection and Elimination
JRWC	Jordan River Watershed Council
LID	Low Impact Design
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
SHPO	State Historic Preservation Office
SIC	Standard Industrial Classification
SLCoHD	Salt Lake County Health Department
SOP	Standard Operating Procedure
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
UAC	Utah Administrative Code
UDOT	Utah Department of Transportation
UPDES	Utah Pollutant Discharge Elimination System
USWAC	Utah Stormwater Advisory Committee

1.0 CERTIFICATION

In accordance with Part 2.3.3.4 or the permit, the following statement must be incorporated and signed in this document:

Certification Statement:

I certify under penalty of law that this document and all attachments were prepared with 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, 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.

Signature: _____



Mike Reberg
Associate Deputy Mayor

Printed Name: Associate Deputy Director, Mike Reberg
Date: 8/18/2020

2.0 STORMWATER MANAGEMENT PLAN INTRODUCTION

Salt Lake County is an urban community within the Salt Lake Valley. The valley is a terminal valley which drains to the Great Salt Lake. The main conveyance system in the valley is the Jordan River, which flows from Utah Lake to the Great Salt Lake (Figure 1). The Salt Lake County stormwater system consists of a system of local municipal drainage pipes and open channel drainage facilities, which discharge to a larger countywide system of pipes, open channels, canals, or natural channels. Flood control facilities are managed by Salt Lake County's Flood Control Engineering Division. These facilities are defined in Chapter 17 of the Salt Lake County Code of Ordinances and are provided in Figure 2.

Salt Lake County received a Utah Pollutant Discharge Elimination System (UPDES) Phase I Stormwater Discharge Permit in 1995 (Permit No. UTS000001) for stormwater discharges from unincorporated Salt Lake County. The permit was renewed on May 1, 2001, and reissued on December 1, 2006. On September 5, 2013, a new permit was issued to the Jordan Valley Municipalities that included coverage for Cottonwood Heights and required the revision of Salt Lake County's Stormwater Management Plan (SWMP) within 120 days of the effective date of the permit. The County was subsequently split from traditional municipal government with the creation of the Greater Salt Lake Municipal Services District (MSD) who currently provides Municipal Services to the former Unincorporated County. Thus, the County Phase I Permit now only covers County owned facilities and the MSD is a joint permittee on the Phase II Jordan Valley UPDES Permit (Permit No. UTS000001). Now the County operates two distinct SWMP's, one under contract with the MSD and the other for Countywide facilities.

These revised SWMPs were developed to comply with the new permit, and is designed to reduce, to the maximum extent practicable (MEP), the discharge of pollutants from the municipal storm drain system servicing the MSD and Countywide facilities. This SWMP includes stormwater management practices, control techniques, system design and engineering methods, an education component, and other provisions appropriate for the control of pollutants. The development, implementation, and enforcement of the SWMP are to fulfill requirements under the permit, in accordance with Section 402(p)(3)(B) of the Federal Clean Water Act and State Storm Water Regulations (*UAC R317-8-3.8*).

2.1 SWMP COORDINATION

The Salt Lake County Flood Control Engineering Division is responsible for the overall implementation of the SWMP. Other County divisions assist in this implementation as appropriate and as discussed in Section 2.4 and provided in the flow chart in Figure 3. The responsible parties are as follows:

Agency: Salt Lake County, Engineering and Flood Control Division

Contact: Mr. Kade D. Moncur, P.E., C.F.M., Division Director, (385) 468-6600
Mr. Robert Thompson, P.G., Stormwater Program Manager, (385) 468-6642

Figure 1 – Vicinity Map

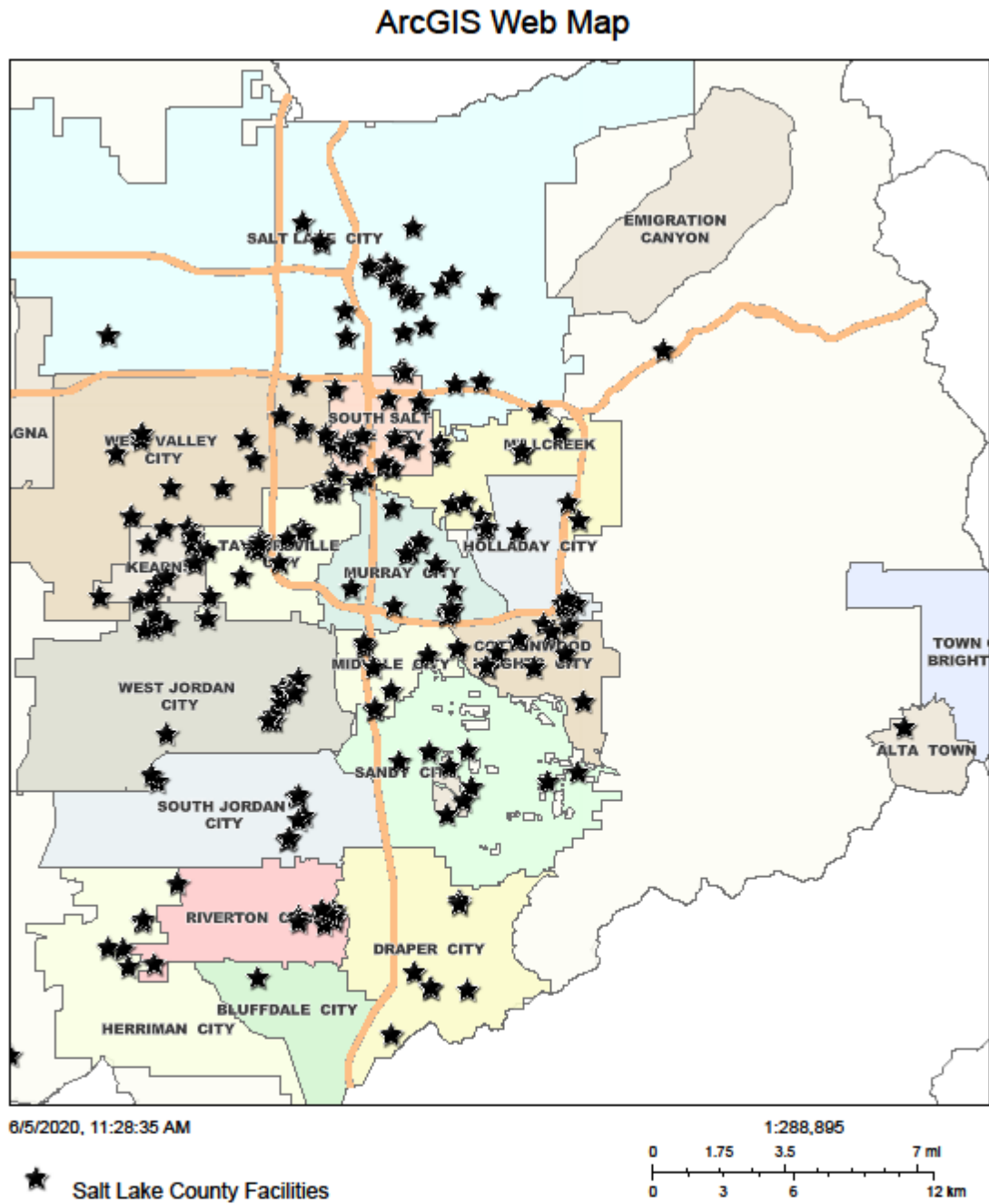


Figure 2 - SLCo Flood Control Facilities



FLOOD CONTROL FACILITIES

The following facilities, wherever located in the County, including open channel sections and sections in conduit, are declared to be part of the storm drainage and Flood Control System and are subject to the provisions of Chapter 17.08 relating to such facilities. The representation of channels in this figure is based on their designation as a river, creek, canal, ditch or drain. This figure is not a comprehensive representation of County hydrology.

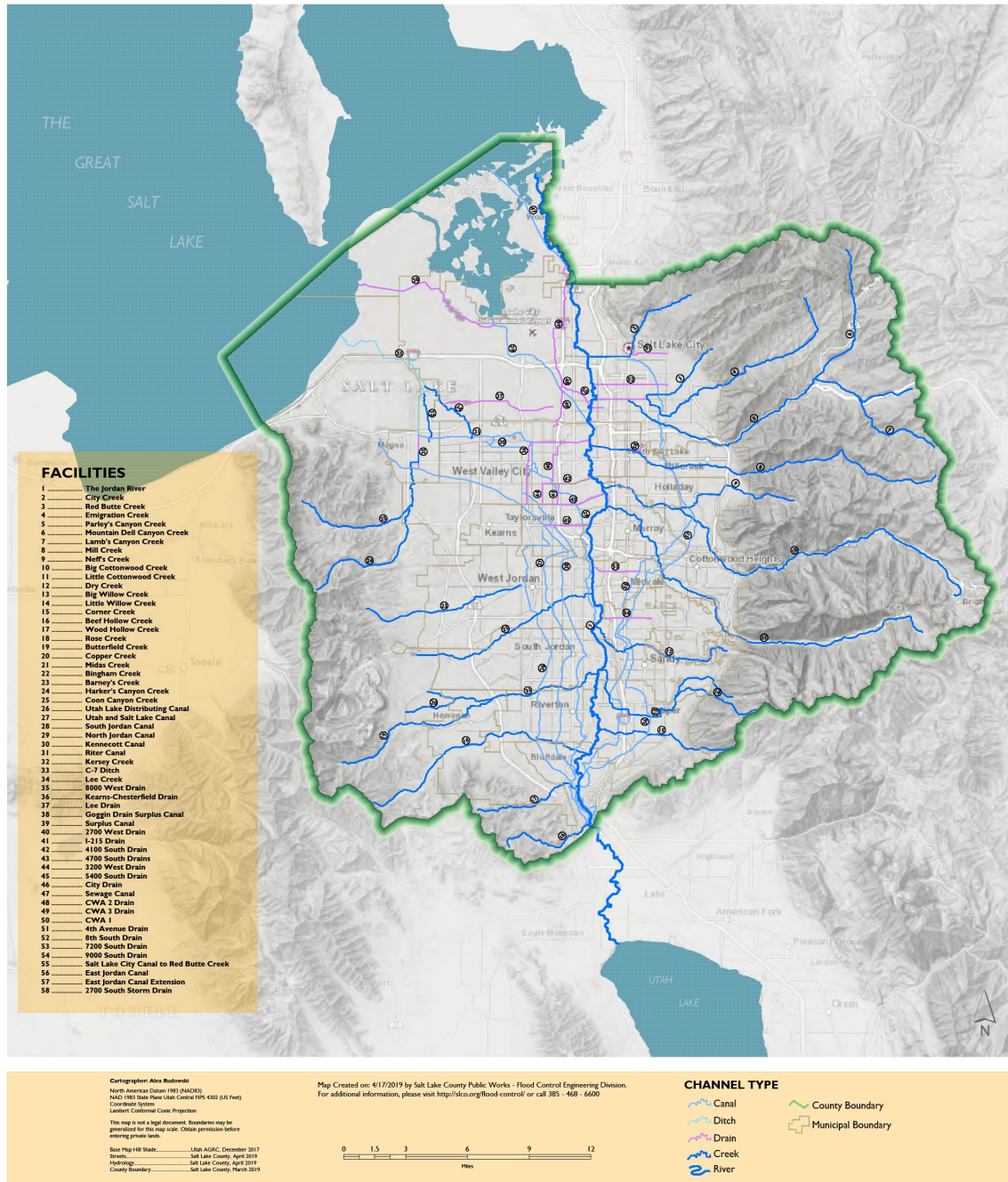
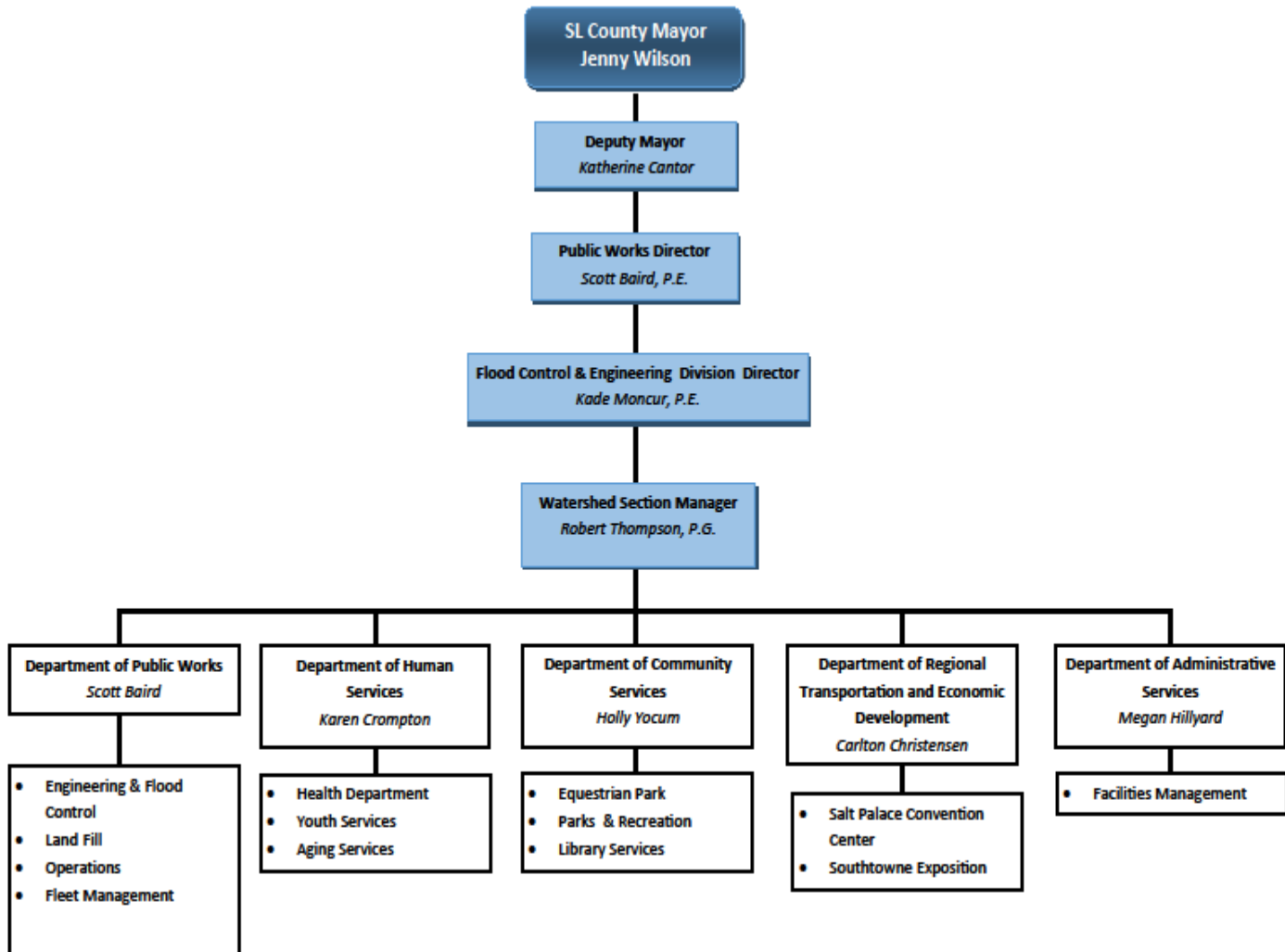


Figure 3 – Organization Flow Chart



PURPOSE

This 2020 SWMP identifies tasks for completion over the next five years. These tasks are designed to address six minimum control measures for Phase I permittees, and are listed below:

- ◆ Public Education and Outreach on Stormwater Impacts
- ◆ Public Involvement and Participation
- ◆ Illicit Discharge Detection and Elimination
- ◆ Long-term Stormwater Management in New Development and Redevelopment
- ◆ Pollution Prevention and Good Housekeeping for Municipal Operations
- ◆ Monitoring, Evaluation and Reporting

2.2 SWMP REVIEW AND MODIFICATION

An annual review of this SWMP will be conducted in conjunction with the required Annual Stormwater Report; any changes or modifications will be submitted to the Utah Division of Water Quality (DWQ) in accordance with Part 4.5 of the permit. This review will include the following:

- A review of the status of program implementation and permit compliance.
- A review of any revision or change of BMPs during the year and an assessment of the effectiveness of such revision. The DWQ will be notified of any changes to the implementation of BMPs. This notification will include the rationale supporting the modification in accordance with Part 4.5.2 of the permit.
- An overall assessment of the goals and direction of the SWMP and effectiveness of BMPs.
- A review of monitoring data, any changes in monitoring methods and parameters, and an assessment of the overall monitoring program.

2.3 STAFFING AND RESOURCE ALLOCATIONS

Management and oversight of the Stormwater Management Program is funded by Salt Lake County through the municipal generated sales tax (approximately 60%) and the *ad valorem* property tax (approximately 40%) assessed Countywide. The Stormwater Management Program has been programmed to include 2.5 full-time equivalent personnel on an annual basis. The County also utilizes the services of contractors to implement portions of the stormwater program, including technical assistance and the public education program. Some of the implementation of the 2019 Stormwater Management Program is performed by other departments and divisions within the County and is therefore not included in this funding (e.g., Pollution Prevention and Good Housekeeping Program and the Household Hazardous Waste Program).

The **Public Education and Outreach** on Stormwater Impacts Program is conducted in large part by the Salt Lake County Stormwater Coalition. This program is discussed in detail in Section 4.0 of this plan. This Coalition is funded by the Co-permittees, as well as the Utah Department of Transportation and Davis and Weber Counties. The Coalition is responsible for developing and distributing the educational materials.

Regarding the **Illicit Discharge Detection and Elimination Program**, the Salt Lake County Health Department responds to complaints regarding spills and illegal discharges and takes enforcement actions as necessary. The portion of the SWMP that is funded by the County's *ad valorem* property tax is the Dry Weather Screening Program, stormwater system map and coordination with the Salt Lake County Health Department. The Engineering Division and the Health Department have entered a Memorandum of Understanding (MOU) to define the interaction more formally between the implementation and management phases of the SWMP.

Implementation of the **Pollution Prevention and Good Housekeeping Program** is performed by individual County agencies on County-owned facilities. This division implements street sweeping, road deicing, truck washing, etc. The funding source is the Municipal Services Fund which is assessed on the unincorporated County only. The Household Hazardous Waste Program is funded by the Salt Lake County Health Department through the collection of a tipping fee at the Salt Lake Valley Solid Waste Management Facility, the Tri-Community Landfill and at the transfer station.

2.4 PROGRAM SUMMARY

This SWMP has been developed to meet the requirements of the UPDES permit and consists of six minimum control measures established by EPA for Phase II stormwater discharges. Implementation of these control measures are designed for the purpose of minimizing the discharge of stormwater pollutants to the maximum extent practicable. Each control measure contains best management practices (BMPs) necessary for proper stormwater management. The BMPs contained herein include specific tasks to meet the objective of that control measure. This SWMP is intended to be a dynamic document with BMPs added and deleted as new management practices arise and other management practices are found to be ineffective.

A brief description of each BMP program relating to the minimum control measures is provided below. A list of each program with a five-year implementation schedule is provided in Table 1.

Chapter One – Public Education and Outreach on Stormwater Impacts

This measure is intended to ensure greater public support for the stormwater program and greater compliance through education. An informed public can significantly contribute to the success of the program. In 1999, Salt Lake County implemented the use of a Focus Group to determine the most effective mechanism for educating the public on stormwater issues. Results of the Focus Group indicated that by educating school children (6th graders) the children are likely to take the information to their family.

In general, Salt Lake County emphasizes education in the SWMP because it is a cost-effective BMP and is proactive in trying to reduce stormwater pollutants rather, than reactive by treating the stormwater pollutants. The BMP programs in this chapter include:

1. Residents Education Program
2. County Facilities Education Program
3. Developers and Contractor Education Program
4. MS4 Owned or Operated Facilities
5. Public Survey

6. Salt Lake County Stormwater Coalition

Chapter Two – Public Involvement/Participation

This measure is intended to provide opportunities for the public to play an active role in both the development and implementation of the stormwater program. An active community is important to the success of a stormwater program. The BMPs in this chapter not only serve to involve the public in the stormwater program, but also function to educate the public on stormwater issues. The BMP programs in this chapter include:

1. Public involvement
2. Public participation

Chapter Three – Illicit Discharge Detection and Elimination

This measure is intended to minimize the illicit discharges into the storm drain system. Illicit discharges are discharges that are not composed entirely of stormwater (except as allowed by permit, Part 1.2.2.2), as storm drain systems are not designed to accept, process, or discharge such non-stormwater wastewaters. Minimizing these discharges can help to prevent high levels of pollutants from entering receiving waters. The BMP programs in this chapter include:

1. Ordinance
2. Illicit Detection and Elimination (IDDE) Plan
3. Program Evaluation and Assessment
4. Training

Chapter Four – Long-term Stormwater Management in New Development and Redevelopment

This measure is intended to minimize the impact to stormwater quality through long term BMPs at County owned facilities. The increase in impervious areas caused by development can result in an increase in the type and quantity of pollutants in stormwater runoff. Prior planning and design to minimize pollutants in runoff from these areas is an important component to stormwater quality management. The BMP programs in this chapter include:

1. Long-Term Stormwater BMPs
2. Inspections and Enforcement
3. Training
4. Long-Term Stormwater BMP Inventory

Chapter Five – Pollution Prevention and Good Housekeeping for Municipal Operations

This measure is intended to ensure a reduction in the amount and type of stormwater pollutants by establishing routine activities in the operation and maintenance of municipal operations that address stormwater runoff. Setting guidelines of routine activities that have the potential to impact stormwater quality is an important component to stormwater quality management. The BMP programs in this chapter include:

1. Municipal Maintenance

2. Facility Inventory
3. High-Priority Facility Identification
4. High-Priority Operation, Maintenance, and Inspections
5. Water Quality Assessment of Flood Control Projects
6. County Construction Projects
7. Training

Chapter Six – Monitoring, Evaluation and Reporting

This chapter provides a summary of the monitoring, SWMP effectiveness evaluation and reporting that is required by the UPDES permit. The permit also requires reporting of all stormwater activities conducted under this SWMP and routine evaluation of the effectiveness of the SWMP in order to make modifications as necessary. The BMP programs in this chapter include:

1. Record Keeping
2. Reporting
3. SWMP Update, Review & Modification

TABLE 1
Countywide SWMP
MASTER BMP SCHEDULE

	Feb 2020-2021	2nd 5 years	3rd 5 years	4th 5 years	5th year
PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS					
RESIDENTS EDUCATION PROGRAM					
Water Quality Fair	Annual	Annual	Annual	Annual	Annual
Media Outreach	2-3 press releases	2-3 press releases	2-3 press releases	2-3 press releases	2-3 press releases
Educational materials/ Distribute	Annual	Annual	Annual	Annual	Annual
Informational brochures/ Include new information/ Develop & distribute	On-going	4/15 New topics	On-going	On-going	On-going
Website training videos for Public, spanish version also	On-going	On-going	On-going	On-going	On-going
Internet & social media/Maintain	On-going	On-going	On-going	On-going	On-going
Stream signs	2yr	2yr	2yr	2yr	2yr
BUSINESSES, INSTITUTIONS AND COMMERCIAL FACILITIES EDUCATION PROGRAM					
Business & commercial informational brochures/ Include Nitrogen and Phosphorus info	Sept 2020 new broch NP	on-going	On-going & new facts	On-going	On-going
DEVELOPERS AND CONTRACTOR EDUCATION PROGRAM					
Pre-construction conference stormwater information	On-going	On-going	On-going	On-going	On-going
Website information/Develop & maintain	Update new SWMP's and post	On-going	On-going	On-going	On-going
MS4 FACILITIES					
MS4 and SL County Contract employee information and training/ Include LID methods & EDD Program/see Phase 1 SWMP	Annual	Annual	Annual	Annual	Annual
PUBLIC SURVEY					
Conduct public survey	Sept 20				
SALT LAKE COUNTY STORMWATER COALITION					
Continue Administration and participation					
Represent SL County Stormwater Coalition at USWAC & Watershed Remediation (each)	Monthly	Monthly	Monthly	Monthly	Monthly
Public Involvement/Participation Program	Monthly/Quarterly	Monthly/Quarterly	Monthly/Quarterly	Monthly/Quarterly	Monthly/Quarterly
PUBLIC INVOLVEMENT/PARTICIPATION PROGRAM					
Public Involvement					
Draft & final SWMP and ordinance development website posting/Maintain	August 2020	On-going	On-going	On-going	On-going
PUBLIC PARTICIPATION					
Storm drain inlet identification/ Make available	On-going	On-going	On-going	On-going	On-going
Used Oil program/ Promote	On-going	On-going	On-going	On-going	On-going
Leaf Bag Collection program	Annual	Annual	Annual	Annual	Annual
ILDCIT DISCHARGE DETECTION AND ELIMINATION					
ORDINANCE					
Stormwater Quality ordinance/ Implement	On-going	On-going	On-going	On-going	On-going
AGREEMENTS/LETTERS OF AGREEMENT					
Implement MOU with the Health Department	File with by Sept 2020	On-going	On-going	On-going	On-going
EDUCATION					
Wet discharge public education (Public Education & Outreach Program)	On-going	On-going	On-going	On-going	On-going
Household hazardous waste/ Provide information	On-going	On-going	On-going	On-going	On-going
Public recycling/ Flow chart for resources/ Provide information	On-going	On-going	On-going	On-going	On-going
PROGRAM EVALUATION AND ASSESSMENT					
EDD Program evaluation & Assessment	Yearly	Yearly	Yearly	Yearly	Yearly
EMPLOYEE TRAINING					
Employee training	Annual	Annual	Annual	Annual	Annual
CONSTRUCTION SITE RUNOFF CONTROL					
ORDINANCE					
Adopt and Implement Ordinance 17.22	On-going	On-going	On-going	On-going	On-going
CONSTRUCTION SITE STORMWATER TRAINING					
Personal training	Annual	Annual	Annual	Annual	Annual
LONG-TERM STORMWATER MANAGEMENT IN NEW DEVELOPMENT & REDEVELOPMENT					
LONG-TERM STORMWATER MANAGEMENT ORDINANCE					
Implement Ordinance	On-going	On-going	On-going	On-going	On-going
LONG-TERM STORMWATER MANAGEMENT INSPECTIONS & ENFORCEMENT					
SWP for long-term inspections & enforcement procedures	On-going	on-going	On-going	On-going	On-going
LONG-TERM STORMWATER BMP TRAINING					
Personal training	Annual	annual	Annual	Annual	Annual
LONG-TERM STORMWATER BMP INVENTORY					
BMP Inventory/ Develop & maintain	On-going	on-going	On-going	On-going	On-going
POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS PHASE 1 SL COUNTY PERMIT 2020-2025					
MUNICIPAL MAINTENANCE OF MS4 AREAS					
Storm drain system maintenance	Annual	Annual	Annual	Annual	Annual
Detention/retention basin inspections	Yearly	As needed	Quarterly	Quarterly	Quarterly
Street sweeping	2x year	3-4/year	3-4/year	3-4/year	3-4/year
Parks and Recreation maintenance	As needed	As needed	As needed	As needed	As needed
Self-Clean Maintenance	As needed	As needed	As needed	As needed	As needed
FACILITY INVENTORY					
Facility Inventory/ Develop & update	On-going	On-going	On-going	On-going	On-going
HIGH-PRIORITY FACILITY IDENTIFICATION & BMPs					
BMPs for high-priority facilities/Implement	On-going	on-going	On-going	On-going	On-going
High-priority building & facilities storm drain inventory	Annual	Annual	Annual	Annual	Annual
THIRD-PARTY MUNICIPAL MAINTENANCE					
Third party maintenance agreements/inspections	on-going	on-going	on-going	on-going	on-going
LOW-PRIORITY OPERATIONS & MAINTENANCE INSPECTION PROGRAM					
High-priority facility monthly inspections	Monthly	Monthly	Monthly	Monthly	Monthly
High-priority semi-annual comprehensive inspections	Annually	Semi-Annually	Semi-Annually	Semi-Annually	Semi-Annually
High-priority annual visual observations	Annually	Annually	Annually	Annually	Annually
WATER QUALITY ASSESSMENT OF FLOOD CONTROL PROJECTS					
Water quality sensor program/Implement	On-going	on-going	On-going	On-going	On-going
COUNTY CONSTRUCTION PROJECTS					
Ensure compliance with UPRR Construction Site Permit	On-going	On-going	On-going	On-going	On-going
EMPLOYEE TRAINING					
Personal training	Annual	Annual	Annual	Annual	Annual
RECORDING, RECORDKEEPING AND REPORTING					
Personal training	Annual	Annual	Annual	Annual	Annual
RECORDKEEPING					
Documentation Process/ Maintain records	On-going	On-going	On-going	On-going	On-going
Co-permittee Identification & Accountability	7/1	On-going	On-going	On-going	On-going
REPORTING					
Annual Report	10/1/20	10/1/21	10/1/22	10/1/23	10/1/24
Annual fiscal review of program	9/1/20	9/1/21	9/1/22	9/1/23	9/1/24
SWMP update, review & modification	as needed	as needed	as needed	as needed	as needed
RESPONSIBILITY AGREEMENTS					
Develop & maintain agreements w/ other entities	re-do with new permit 2020	On-going	On-going	On-going	On-going

□ Tests to be completed; includes specific dates and implementation throughout the year

3.0 SPECIAL CONDITIONS

The UPDES permit requires the SWMP address potential impacts to impaired waterbodies, threatened and endangered species, and historic properties with regards to the discharge of stormwater. This section provides a discussion of these issues.

3.1 DISCHARGES TO IMPAIRED WATERS

In accordance with the Utah 2017 Integrated Report (Department of Environmental Quality, 2010), there are currently six impaired waterbodies in Salt Lake Valley. These waterbodies and information on the Total Maximum Daily Load (TMDL) studies are presented in Table 2.

Table 1 Impaired Waterbodies in Salt Lake County

Watershed Management Unit	Watershed Management Name	Location of Impairment	Beneficial Use ¹	Pollutant	TMDL Status	
Jordan River/ Utah Lake	Big Cottonwood Creek	From the Jordan River to the Big Cottonwood Water Treatment Plant	2B, 3A, 4	Temperature, E. Coli, Benthic - Macroinvertebrates	TMDL completed for E. Coli	
	Emigration Creek	From Foothill Blvd to headwaters	2B, 3A, 4	E. Coli	TMDL Completed	
	Jordan River	From 2100 South to the Narrows	2B, 3A, 4	Dissolved Oxygen, E. coli, Temperature, Total Dissolved Solids, Selenium, Benthic-Macroinvertebrates	TMDL completed for E. Coli	
	Mill Creek	From I-15 to USFS Boundary	2B, 3A, 4	Benthic-Macroinvertebrates, E. coli	TMDL required	
	Little Cottonwood Creek	From Metropolitan Water Treatment Plant to headwaters		1C, 2B, 3A	Zinc, pH, Copper, Cadmium	TMDL completed Zinc TMDL required pH, Copper, & Cadmium,
		From the Jordan River to the Metropolitan Water Treatment Plant		2B, 3A, 4	Temperature, Total Dissolved Solids, Benthic-Macroinvertebrates, Cadmium, E. Coli	TMDL completed for E. Coli
	Parleys Canyon Creek	From 1300 East to Mountain Dell Reservoir		1C, 2B, 3A	E. Coli. Benthic-Macroinvertebrates	TMDL completed for E. Coli

¹ 1C – Domestic Water Supply
 2B – Secondary Contact Recreation
 3A – Cold Water Species of Game Fish
 3B – Warm Water Species of Game Fish

4 – Agriculture

Salt Lake County has been operating under a UPDES permit since 1992 and has implemented numerous BMPs with the intent to minimize the discharge of stormwater pollutants. Salt Lake County will continue to implement BMPs and will evaluate potential impacts to impaired waterbodies. The status of these waterbodies in relation to the County's stormwater discharges is as follows:

1. Big Cottonwood Creek – TMDL completed; problem indicator: E. coli.
2. Jordan River – TMDL completed; problem indicator: E. coli.
3. Little Cottonwood Creek – TMDL completed; problem indicator: zinc and E. coli. TMDL in process for copper, cadmium, pH, temperature, total dissolved solids, and Benthic-macroinvertebrates; no specific requirements currently.
4. Parley's Canyon Creek – TMDL completed; problem indicator: E. coli.

3.2 JORDAN RIVER WATERSHED WIDE E. COLI TMDL

Objective: Reduction of water quality impacts associated with E. coli discharges from the MS4.

Permit Requirement: Part 3.2.1, 3.2.2, & 3.2.3

Description of Task: The County has created a TMDL Compliance Plan (APPENDIX H) that supplements and builds on the six minimum control measures identified in Part 4.2 of the permit. The TMDL Compliance Plan identifies potential sources of E. coli in the MS4 and targets specific audiences that may be contributing to the E. coli sources by mapping inventoried areas that are potential sources of E. coli. The plan includes BMPs (both structural and non-structural) that will be implemented during the Permit term. The County will submit a TMDL Compliance Report within the annual report to the DWQ by October 1 of each year.

3.3 NITROGEN AND PHOSPHORUS REDUCTION

Objective: Reduction of water quality impacts associated with nitrogen and phosphorus in discharges from the MS4.

Permit Requirement: Part 3.3.1

Description of Task: The County will manage the potential for Nitrogen and Phosphorus contaminants polluting our waterbodies. Salt Lake County, under its current jurisdictional authority, has no population or businesses. County owned facilities are the only areas the Phase I Permit covers. As such, parks, golf courses, and other facilities will be targeted for education and BMPs.

4.0 PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS

The Public Education and Outreach on Stormwater Impacts Program is intended to increase public awareness of impacts associated with pollutants in stormwater runoff and illicit discharges. Salt Lake County (County), in conjunction with the Salt Lake County Stormwater Coalition, has implemented an education program over the years that includes a multi-media approach. In this manner, the County can reach a wide audience which serves to make the stormwater management program more successful. This approach has included TV and movie commercials, bus ads, educational brochures and flyers, a Water Fair, and more. In addition, Salt Lake County has translated some of the educational materials into Spanish to reach a wider audience.

The BMPs in this program will target four audiences in accordance with Part 4.2.1. of the permit. These audiences are 1) residents, 2) institutions and commercial facilities, 3) developers and contractors, and 4) MS4-owned or operated facilities. The information provided to these audiences include the potential impacts of stormwater on receiving waters, including methods for minimizing these impacts. This includes education regarding the Nitrogen and Phosphorus reduction in accordance with Part 3.2.1 of the permit.

4.1 SUMMARY OF TASKS

This program integrates other facets of the SWMP to provide up-to-date information, including the Illicit Discharge Detection and Elimination plan, Long-term Stormwater Management, and Good Housekeeping Programs. The following BMPs describe implementation and assessment tasks to be completed and responsible parties. Progress towards the measurable goals will be documented in the Annual Stormwater Report.

4.1.1 RESIDENTS EDUCATION PROGRAM

Objective: Reduce stormwater pollutants to receiving waters by increasing public awareness of problems and solutions.

Permit Requirement: Part 4.2.1.1. & 4.2.1.2. - Public Education & Outreach on Stormwater Impacts
Part 4.2.3. - Illicit Discharges Detection & Elimination

Description of Tasks: Provide residents with IDDE Hotline number and procedures, educational materials, demonstrations, and outreach activities regarding the impact of daily activities on stormwater quality. Information will include the types of stormwater pollutants and ways to reduce or eliminate these pollutants. Topics will include maintenance of septic systems, effects of outdoor and household activities, including vehicle maintenance on stormwater quality, benefits of on-site infiltration, proper disposal of swimming pool water and proper management of pet waste.

Virtual Water Quality Fair: The Salt Lake County Stormwater Coalition hosts a virtual water quality fair annually. Over the last three years, the annual registration has been over 1000 students from 6, 7, and 8th-grade classes. Coalition volunteers deliver outreach and participation materials to classrooms. Students from the Salt Lake Valley participate in the

virtual event and have access to the videos and materials after the virtual event has ended.

6th, 7th, and 8th Grade Water Science Engineering Competition: The Salt Lake County Stormwater Coalition hosts the Water Science & Engineering Competition (WSEC) to engage 6, 7 and 8th grade students with challenges in a competition for solutions to various water problems. To compete, students adopt the methods of scientists and engineers, investigating interactions among systems and organisms to evaluate and design solutions to preserve human and environmental health, biodiversity, and ecosystems. The competition is open to all students in Salt Lake County and the categories are Big Idea, Prototype, and Experiment. The students submit short videos explaining their project, idea, or experiment that are judged by Coalition members and prizes awarded accordingly.

Media Campaign: The Salt Lake County Stormwater Coalition conducts a mass media campaign to further educate residents about stormwater pollution and prevention. Salt Lake County has developed several commercials addressing stormwater issues over the years and continues to produce updated versions. The Coalition partners with top rated TV stations in the Salt Lake County market, reaching a large portion of Salt Lake County residents. These campaigns typically run for a two to three-week period during the fall and Spring. Promotional materials are also displayed as visual ads on public transportation around the Salt Lake Valley during the fall and spring campaigns. Additional campaigns will be conducted as opportunities arise.

Educational Materials: Distribution of educational materials is designed to inform communities of the impacts of stormwater discharges on local waterbodies and ways in which people can reduce this impact. These materials include educational materials and giveaways such as pet waste bags, activity books, pens, note pads, posters, etc. Many of the educational materials are developed through the Salt Lake County Stormwater Coalition (see Section 4.1.6). The materials are primarily distributed to 6th, 7th, and 8th graders in the public and private schools within Salt Lake County and ties in with the Water Cycle curriculum. It is optimal to distribute the materials once a year when students can practice what they learn and more easily visualize stormwater runoff (i.e., spring and fall). The number and type of materials that are distributed will be documented. These materials will be updated as necessary.

Informational Postcards: Distribution of stormwater information postcards to the general public, as well as golf course and parks employee's. Currently, these postcards cover the following topics:

- Landscaping, Gardening and Yard Maintenance
- Nitrogen and Phosphorus Application
- Paint and Household Hazardous Waste
- Pet Waste (E. coli) and Water Quality
- Household and Vehicle Maintenance

Additional information or circulation materials will be developed to address other stormwater topics as needed. These will be available and posted on the Salt Lake County Coalition

website.

Educational Video: A stormwater educational video, *Droplet's Ride Through the Jordan River Watershed*, has been developed and distributed in Fall of 2020. This video is appropriate for all students and provides education about stormwater in a fun way. Valuable tips on keeping stormwater clean are provided, and viewers are empowered as Downstream Deputies to go out and educate others about stormwater. This video is available, with many other promotional videos, on the Salt Lake County Stormwater Coalition website.

Internet and Social Media: The Salt Lake County Stormwater Coalition has maintained a website for several years. This website provides stormwater information, and provides links to other sites for information, as well as member sites for more local information. This website is updated regularly. In addition, the Coalition has broadened its use of social media to include Facebook, Instagram, and Twitter, with the intent to reach a younger audience with the information.

Stream Crossing Identification: Salt Lake County Stormwater Coalition has placed signs on roadways to identify stream crossings. The intent was to make the public more aware of the streams in the area and hopefully take more interest in protecting the waterway. The Coalition will continue to place and update these signs in the County's jurisdiction when necessary. The Coalition has made the template for these signs available to the co-permittees for placement in their jurisdictions.

4.1.2 COUNTY FACILITIES EDUCATION PROGRAM

Objective: Reduce the discharge of stormwater pollutants to receiving waters by providing information to County Divisions regarding illicit discharges and the potential impacts.

Permit Requirement: Part 4.2.1.3. - Public Education & Outreach on Stormwater Impacts
Part 4.2.3. - Illicit Discharges Detection & Elimination

Description of Task: Inform County Divisions about the impacts of stormwater discharges on receiving waters and steps that can be taken to reduce pollutants in stormwater runoff through outreach activities and/or educational materials. Provide information about the storm drain system and the consequences of illegal discharges and improper disposal of waste. Topics to be included in this education program include lawn maintenance, benefits of on-site infiltration of stormwater, building and equipment maintenance, use of salt or other deicing materials, proper management of waste materials and dumpsters, and proper management of parking lots.

4.1.3 MS4 OWNED OR OPERATED FACILITIES

Objective: Reduce the discharge of pollutants to stormwater by providing training to employees with regard to water quality impacts associated with illicit discharges, improper disposal of waste, and Low Impact Development (LID) practices. In particular, education and training will be targeted toward County owned golf courses for the reduction of Nitrogen and Phosphorus. Provide and document education and outreach to County employees to reduce discharges of E. coli.

Permit Requirement: Part 3.2.2.1 – E. coli TMDL
Part 3.3.1.3 – Nitrogen and Phosphorus Reduction
Part 4.2.1.5. & 4.2.1.6. - Public Education & Outreach on Stormwater Impacts
Part 4.2.4. - Construction Site Stormwater Runoff Control
Part 4.2.5. - Long-term Stormwater Management in New Development & Redevelopment

Description of Task: Provide MS4 engineers, development and plan review staff, land use planners, and other employees as applicable, with educational materials regarding stormwater regulations, LID practices, and the IDDE Program. County personnel will be provided annual training with regard to County stormwater regulations (Title 17, Chapter 17.22.), inspections and maintenance, and BMPs for businesses and commercial facilities, construction sites and MS4 industrial facilities. Training may include webcasts, training, or distribution of information. Training topics will include the following:

- Equipment inspection and maintenance
- Proper storage of industrial materials
- Proper management and disposal of wastes
- Proper management of dumpsters
- Minimization of the use of salt and other de-icing material
- Benefits of on-site infiltration
- Proper maintenance of parking lots
- Low Impact Development (LID) practices and green infrastructure practices

4.1.4 PUBLIC SURVEY

Objective: Evaluate the effectiveness of the public education and outreach program through use of a public survey. The survey will be used to evaluate the recognition of the stormwater message and the impact the information has on residential, commercial, and industrial habits with regards to stormwater.

Permit Requirement: Part 4.2.1.7. - Public Education and Outreach on Stormwater Impacts

Description of Task: The County conducted public surveys associated with stormwater issues in 1993, 1998, 2003, 2010, 2015, and 2020. The purpose of the surveys was to determine what type of information needs to be conveyed to the public, what people do that may impact stormwater quality, and their knowledge of stormwater issues. The survey information is used to evaluate and modify the stormwater education program accordingly. The County will continue to conduct these surveys once every five years; consideration will be given to conduct a bilingual survey as appropriate to the County demographics.

4.1.5 SALT LAKE COUNTY STORMWATER COALITION

Objective: Increase public and professional awareness of stormwater quality concerns with consistent and combined marketing methods.

Permit Requirement: Part 4.2.1. - Public Education and Outreach on Stormwater Impacts

Description of Tasks: Continue coordinating and participating in the Salt Lake County Stormwater Coalition to provide education and training for professionals and municipal employees with regard to stormwater quality. This coalition is open to the public and consists of co-permittee representatives whose purpose is reducing the load of pollutants entering the storm drains, receiving waterbodies, and enforcing the appropriate regulations. The Coalition meets monthly to coordinate new educational materials/programs, discuss stormwater program development, and inform members of new regulations and conferences.

A budget for the educational program is established each year with the assistance of a consultant. Through interlocal agreements and voluntary contributions, the program is funded by participants. The County provides a base funding level each year, supplemented by additional funds. The types of media and timing for distribution are discussed so that the public can be targeted year-round. Other factors that are taken into consideration in choosing the types of media are the average number of times that a person will see the advertisement. Examples of the types of educational materials that are developed through the Coalition are:

- Television commercials
- Bus Advertisements
- Banners
- Posters
- Promotional Items
- Activity books
- Public surveys
- Postcards

The County documents the number and type of all materials that are distributed. Current Salt Lake County Stormwater Coalition participants are listed below, however, new entities may participate at any time.

- Salt Lake County
- Salt Lake City
- Salt Lake County Health Department (SLCoHD)
- UDOT, Region 2
- Greater Salt Lake MSD
- Jordan Valley Municipalities Phase 2 Co-permittees (15)

Other public agencies that are not formal members of the Coalition, also participate in the funding of certain programs.

The Coalition also provides a representative to the Utah Stormwater Advisory Committee (USWAC). USWAC was established to coordinate efforts to reduce stormwater pollution statewide and meets on a monthly basis. The committee consists of representatives from counties and stormwater coalitions, as well as DWQ personnel. The committee discusses implementation of stormwater regulations, training opportunities and best management practices.

4.2 GOALS AND ASSESSMENT

The table below represents measurable goals for this program 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.

Table 3 Public Education & Outreach Program Goals and Assessment

Year	Task	Goal	Assessment	Responsibility
8/20-8/25	Residential Education; Virtual Water Quality Fair	<ul style="list-style-type: none"> Continue water quality fair for 6th, 7th, and 8th grade students 	Document number of students attending & information distributed	Flood Control Stormwater Program Supervisor
8/20-8/25	Residential Education Media Campaign	<ul style="list-style-type: none"> Continue media campaigns Update commercials as necessary 	Document # of airings & # of people reached	Flood Control Stormwater Program Supervisor
8/20-8/25	Residential Education Materials	<ul style="list-style-type: none"> Distribute educational materials to co-permittees and during the Water Fair 	Document types & quantity of materials distributed	Flood Control Stormwater Program Supervisor
8/20-8/25	Residential Education postcards	<ul style="list-style-type: none"> Distribute stormwater postcards 	Document types & quantity of materials distributed	Flood Control Stormwater Program Supervisor
8/20-8/25	Residential Education Video	<ul style="list-style-type: none"> Make available to interested parties 	Document number of videos viewed	Flood Control Stormwater Program Supervisor
8/20-8/25	Residential Education Internet & Social Media	<ul style="list-style-type: none"> Update website as necessary Update other media as necessary 	Assess need for updating & document	Flood Control Stormwater Program Supervisor
8/20-8/25	Residential Education Stream Crossing Signage	<ul style="list-style-type: none"> Provide stencils and install signage when necessary 	Document number & location of signs placed	Flood Control Stormwater Program Supervisor
8/20-8/25	Business & Commercial postcards	<ul style="list-style-type: none"> Distribute informational postcards 	Document types & quantity of materials distributed	Flood Control Stormwater Program Supervisor
8/20-8/25	MS4 Facilities Employee Training	<ul style="list-style-type: none"> Provide annual training for County employees 	Document training & attendance	Flood Control Stormwater Program Supervisor
8/20-8/25	Public Survey	<ul style="list-style-type: none"> Conduct survey to evaluate effectiveness of education program every 5 years 	Document results & modify program accordingly	Flood Control Stormwater Program Supervisor
8/20-8/25	Salt Lake County Stormwater Coalition	<ul style="list-style-type: none"> Continue participation in the Coalition Represent Coalition at JRWC & USWAC meetings 	Document meetings, attendees & agendas	Flood Control Stormwater Program Supervisor

Year	Task	Goal	Assessment	Responsibility
8/20-8/25	6 th , 7 th , and 8 th grade Water Science Engineering Competition	<ul style="list-style-type: none"> • Coordinate and implement competition on an annual basis 	Attendance records/tests/surveys/hands on science related to stormwater	Flood Control Stormwater Program Supervisor

5.0 PUBLIC INVOLVEMENT/PARTICIPATION

The Public Involvement/Participation Program section of the SWMP addresses the importance of public involvement with respect to protection of stormwater. Community participation provides for broader public support, shorter implementation schedules, a broader base of expertise and the development of important relationships with other community and government programs. The BMPs described in this section include opportunities for the public to play an active role in the County's stormwater program.

5.1 SUMMARY OF TASKS

This program complements the Public Education and Outreach Program, providing for public input into the stormwater program as well as some active community programs. The following BMPs describe implementation tasks and assessment tasks to be completed by Salt Lake County for the Public Education Involvement/Participation Program. Progress towards the measurable goals will be documented in the Annual Report.

5.1.1 PUBLIC INVOLVEMENT

Objective: Provide opportunities for public involvement in the development and implementation of the SWMP, as well as stormwater-related ordinances.

Permit Requirement: Part 4.2.2.1., 4.2.2.2., 4.2.2.3. & 4.2.2.4. - Public Involvement/Participation

Description of Task: Provide the opportunity for the public to review and comment on the SWMP and other regulatory mechanisms for SWMP implementation. A draft of the revised SWMP will be posted on the County's website within 120 days from the effective date of the permit. Comments will be reviewed and incorporated as appropriate. The final document will be posted on the website for public review for the duration of the permit. Information on how the public can comment on the SWMP will be provided on the website. In addition, the development and adoption of various ordinances or other regulatory mechanisms will also be available for public review through the website.

5.1.2 PUBLIC PARTICIPATION

Objective: Provide opportunities for public participation with regards to reducing the discharge of pollutants to stormwater runoff.

Permit Requirement: Part 3.2.1 E. coli TMDL

Part 3.3.1 – Nitrogen and Phosphorus Reduction

Description of Tasks: Provide opportunity for public to participate in a stormwater activity and provide education with regards to related programs. The Salt Lake County Stormwater Coalition provides outreach materials, via the Coalition website, that identifies and targets sources of E. coli pollution, as well as information on how to reduce potential discharges of E. coli. Provide the public

with information and education regarding the specific reduction of Nitrogen and Phosphorus in discharges from the MS4.

Storm Drain Inlet and Stream Sign Identification Program: A program utilizing community groups to identify storm drain inlets serves to discourage illicit dumping and littering. Typical groups that participate in the Storm Drain Inlet and Stream Sign Identification program are Eagle Scouts, Girl Scouts, and school groups. The Stormwater Coalition has stencil templates available to identify the storm drain inlet locations. This program includes a public education component by educating the participating groups about illicit discharges and encourages youth to be involved in the program.

Used Oil Program: The County assists in the distribution of information to the public regarding proper disposal of used oil. This program is administered by the State Department of Environmental Quality in conjunction with the Salt Lake County Health Department. The County helps to educate the public regarding the requirements for disposing of used oil in the other educational materials (website, tabloid, activity book, etc.)

Leaf Bag Collection Program: Leaf bags are available for residents of unincorporated Salt Lake County for the purpose of composting leaves during the fall. The intent is to minimize the number of leaves that enter the storm drain system. The public is instructed to take filled bags to a central location where they are transported to the Solid Waste Management Facility and composted. The County coordinates with the Salt Lake Valley Solid Waste Management Facility and the Salt Lake County Sanitation Department to document the number of leaf bags that are distributed.

5.2 GOALS 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.

Table 4 Public Involvement/Participation Program Goals and Assessment

Year	Task	Goal	Assessment	Responsibility
6/20	Public Review of SWMP & Ordinance	<ul style="list-style-type: none"> Post draft & final SWMP, stormwater ordinances on County website 	Document, respond & incorporate comments into SMWP & ordinance as appropriate	Flood Control Stormwater Program Supervisor
8/20-8/25	Storm Drain Inlet Identification and Stream Sign Crossing Program	<ul style="list-style-type: none"> Have stencil and graphic templates available 	Document requests of materials	Flood Control Stormwater Program Supervisor
8/20-8/25	Used Oil Program	<ul style="list-style-type: none"> Promote Used Oil Program in educational materials 	Document materials that include the Used Oil Program information	Flood Control Stormwater Program Supervisor

Year	Task	Goal	Assessment	Responsibility
8/20-8/25	Leaf Bag Collection Program	<ul style="list-style-type: none"> • Make leaf bags available to unincorporated County residents 	Document number of leaf bags distributed & collected	Flood Control Stormwater Program Supervisor

6.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION

The Illicit Discharge Detection and Elimination (IDDE) Program addresses non-stormwater flows that are discharged to receiving waters via stormwater conveyance systems. This program includes implementation of BMPs to assist in the identification of illicit discharges and removal of these discharges by responsible parties. This program will also focus on prevention of new illicit discharges to the stormwater system by means of education, regulations, and through spill prevention and response.

6.1 SUMMARY OF TASKS

This program will also be integrated with the Public Education and Outreach and the Public Involvement/Participation Programs to promote awareness of the importance of protecting the stormwater system from illicit discharges and the resultant impact to receiving waters. Salt Lake County will continue coordinating and participating with other agencies for the purpose of enforcing against and reducing illicit discharges. The County will also provide support to federal, state, and other local entities in the efficient control of contaminants as required under appropriate regulations, such as the Stormwater Permit Program, Underground Storage Tank Program, Class V Well Inventory and Management Program, and municipal wastewater pretreatment program. Agencies commonly coordinated with include:

- Fire Department
- Landfills
- Salt Lake County Health Department
- Solid Waste Management Facility
- Utah Division of Water Quality
- Recycling Information Office
- All municipalities in Salt Lake County
- Wastewater Pretreatment Program

The following BMPs describe implementation tasks and assessment tasks to be completed by Salt Lake County for the IDDE Program. Progress towards the measurable goals will be documented in the Annual Report.

6.1.1 ILLICIT DISCHARGE DETECTION AND ELIMINATION PLAN ORDINANCE

Objective: Effectively prohibit illicit and illegal discharge through an ordinance.

Permit Requirement: Part 4.2.3.2. – Illicit Discharge Detection and Elimination

Description of Task: In 2010, Salt Lake County passed an ordinance designed to minimize stormwater pollution and establishes enforcement procedures (Title 17, Chapter 17.22 Stormwater Quality, Appendix C). Illicit discharges are defined as any discharge to the storm drain system that is not composed entirely of stormwater, with the exceptions as listed in Part 1.2.2.2. of the permit. Examples of illicit discharges include sanitary wastewater, improper disposal of waste oil, paint, household toxics and spills from roadway accidents. This ordinance provides for the legal authority to enter and inspect a facility to ensure compliance.

In addition, the Salt Lake County Health Department has adopted health regulations that include

wastewater disposal and watershed regulations; these are provided in Appendix C. Health Regulation #13 Wastewater Disposal prohibits such acts as placing or conducting “any sewage or wastewater into any storm drain system, street, alley...”. Health Regulation #14 Watershed Regulation prohibits several acts, all with the intent to protect the watershed and prevent watershed pollution. The Health Department also utilizes the Clean Water Act to prevent pollution of the County’s waterways. The Health Department has adopted the Civil Penalty Determination from the Utah Administrative Code (UAC R317-1.9) that provides guidance when assessing penalties. This consists of escalating penalties depending upon the severity of the violation as well as the history of the non-compliance.

6.1.2 AGENCY MOUs

Objective: Effectively prohibit illicit and illegal discharge through coordination with other agencies.

Permit Requirement: Part 4.2.3. – Illicit Discharge Detection and Elimination

Description of Task: Salt Lake County Engineering is responsible for the implementation of the IDDE program. Engineering works in conjunction with other divisions or departments who assist in this program, including the Salt Lake County Health Department. Salt Lake County has MOUs in place that clearly define the roles of each division and organization for this program. Additional MOUs will be developed as necessary.

6.1.3 ILLICIT DISCHARGE DETECTION AND ELIMINATION PLAN (IDDE)

Objective: Implement a comprehensive plan designed to reduce illicit discharges to the County’s storm drain system. This plan will encompass many of the components in this SWMP (e.g., ordinance, public education, agency cooperation), as well as investigation and enforcement procedures.

Permit Requirement: Part 4.2.3. - Illicit Discharge Detection and Elimination
 Part 4.2.1 - Public Education and Outreach on Stormwater Impacts
 Part 4.2.2 - Public Involvement/Participation

Description of Tasks: Develop and implement a comprehensive IDDE plan that includes adequate ordinances that provide for County access and enforcement activities. Storm drain system mapping, dry weather screening, agency coordination and public education are all components of an effective IDDE plan.

IDDE Education: Salt Lake County will include information regarding stormwater quality and illicit discharges in the education program identified in Section 4.0 of this SWMP.

Household Hazardous Waste Program: The County assists in distributing information to the public regarding proper disposal of household hazardous wastes. This program is administered by the Salt Lake Valley Health Department and the Salt Lake Valley Solid Waste Management Facility. The County helps to educate the public regarding the requirements for disposing of household hazardous wastes by including this information in other educational materials

(tabloid, activity book, etc.)

Public Reporting: In association with the public education program (Section 4.0), Salt Lake County will continue to provide information on public reporting of spills or other illicit discharges. Reports may be called into phone number (801) 580-6681. Calls can also be made to the State Department of Environmental Quality, to EPA or to 911. This information is included in the educational and informational materials and is also available on the Coalition's website. Procedures for formal complaints are in place; Salt Lake County works in conjunction with the Salt Lake County Health Department to investigate the source of the pollution through a Memorandum of Understanding (Appendix D). Investigations and enforcement measures, including any fee penalties are documented by the County.

Salt Lake County Engineering and Flood Control will work with the Salt Lake County Health Department in the development of written procedures for responding to public reports of spills or illegal dumping. This procedure includes a flow chart that shows actions to be taken for responding to public complaints, the various responsible agencies and personnel who will be involved in a response. This chart will be maintained in the SWMP (Appendix D) and will be updated as necessary.

6.1.4 PROGRAM EVALUATION AND ASSESSMENT

Objective: Conduct an assessment of the program to determine effectiveness and any necessary modifications in order to minimize illicit discharges.

Permit Requirement: Part 4.2.3. - Illicit Discharge Detection and Elimination

Description of Task: Salt Lake County currently maintains its stormwater program documents on a GIS compatible database called VUEworks. The County is able to map, and track, the number and type of spills or illicit discharges identified, as well as log inspections.

6.1.5 ILLICIT DISCHARGE DETECTION AND ELIMINATION TRAINING

Objective: Provide employee training to minimize illicit discharges.

Permit Requirement: Part 4.2.3. - Illicit Discharge Detection and Elimination

Description of Task: Salt Lake County will provide annual employee training (including field workers) with regards to the IDDE program, including identification, investigation, termination, clean-up, and reporting. Training will include office and field personnel.

6.2 GOALS 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.

Table 5 Illicit Discharge Detection & Elimination Program Goals and Assessment

Year	Task	Goal	Assessment	Responsibility
8/20-8/25	Ordinance	<ul style="list-style-type: none"> • Implement Chapter 17.22 	Document activities conducted	MSD Stormwater Program Manager
8/20-8/25	Agency MOUs	<ul style="list-style-type: none"> • Continued Implementation of MOU with SLCoHD. 	Document MOU development & implementation	Engineering Stormwater Program Manager
8/20-8/25	Education	<ul style="list-style-type: none"> • Provide education regarding illicit discharges, household hazardous wastes 	Document materials distributed & recipients,	Engineering Stormwater Program Supervisor
8/20-8/25	Public Reporting	<ul style="list-style-type: none"> • Provide public information, include contact information for public reporting • Develop flow chart for response to public reports 	Document materials distributed & recipients Document development & implementation chart	Engineering Stormwater Program Supervisor
8/20-8/25	Database	<ul style="list-style-type: none"> • Develop & maintain a database for program evaluation & assessment 	Maintain tracking database & evaluate program	Engineering Stormwater Program Supervisor
8/20-8/25	Employee Training	<ul style="list-style-type: none"> • Provide annual employee training with regards to the IDDE program 	Document training dates and attendees	Engineering Stormwater Program Supervisor

7.0 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL PROGRAM

The Construction Site Stormwater Runoff Control Program section of the SWMP is no longer applicable at this time, as construction projects will be inspected and controlled by the cities which hold jurisdiction for these projects. If this changes in the future, Salt Lake County will implement the program as required. Salt Lake County continues to provide Construction Site Stormwater training to stay in compliance with permit requirements.

7.1 CONSTRUCTION SITE STORMWATER TRAINING

Objective: Provide training to personnel to minimize stormwater pollutants from construction sites.

Permit Requirement: Part 4.2.4.5. - Construction Site Stormwater Runoff Control

Description of Task: Salt Lake County will provide or make available annual training for personnel whose primary job duties are related to construction projects. This training will be extended to third-party inspectors and plan reviewers as appropriate. Records of training will be maintained.

7.2 GOALS 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.

Table 6 Construction Site Runoff Control Program Goals and Assessment

Year	Task	Goal	Assessment	Responsibility
8/20-8/25	Training	<ul style="list-style-type: none"> Provide annual training for personnel regarding construction site stormwater issues 	Document training & attendees	MSD Flood Control Stormwater Program Supervisor

8.0 LONG-TERM STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT PROGRAM

The Long-term Stormwater Management in New Development and Redevelopment Program addresses the importance of stormwater runoff management following the completion of construction activities. This program is generally not applicable to this SWMP, as construction projects, and redevelopment, will take place in the cities that have jurisdiction over those properties. The BMPs described in this section are for those installed at Salt Lake County owned facilities.

8.1 SUMMARY OF TASKS

The intent of the tasks described below is to mimic pre-development hydrology of a previously undeveloped site, or to improve the hydrology of a redeveloped site. The following BMPs describe implementation tasks and assessment tasks to be completed by Salt Lake County for this program. Progress towards the measurable goals will be documented in the Annual Report.

8.1.1 IMPLEMENT LONG-TERM STORMWATER BMPs

Objective: Reduce the discharge of pollutants from areas through implementation of non-structural and structural BMPs.

Permit Requirement: Part 4.2.5.3. - Long-term Stormwater Management in New Development and Redevelopment

Description of Tasks: Require implementation of BMPs for the purpose of minimizing impacts to stormwater quality.

Retrofit Plan: Salt Lake County has developed a plan to retrofit existing developed sites that are adversely impacting water quality. This plan emphasize controls that infiltrate, evapotranspire, or harvest and use stormwater discharges. The plan includes a ranking of control measures to determine those best suited for retrofitting. The plan includes the following criteria:

- Proximity to waterbody
- Status of waterbody (e.g., impaired, high quality)
- Hydrologic condition of the receiving waterbody
- Proximity to sensitive ecosystem or protected area
- Other sites that could benefit from stormwater retrofitting

8.1.2 LONG-TERM STORMWATER MANAGEMENT INSPECTIONS AND ENFORCEMENT

Objective: Ensure adequate ongoing long-term operation and maintenance of stormwater control measures.

Permit Requirement: Part 4.2.5.5.1., 4.2.5.5.2. & 4.2.5.5.3. - Long-term Stormwater Management in New Development and Redevelopment

Description of Tasks: Develop an SOP for site inspection and enforcement of post-construction BMPs.

Long-term Stormwater Management Inspection and Enforcement SOPs: Salt Lake County will develop SOPs that establish procedures to be implemented when inspecting BMPs. The SOPs will establish procedures for inspections to ensure proper BMP operation, and for enforcement of long-term BMP implementation and operation. County personnel will inspect and maintain BMPs.

Permanent structural BMPs will be inspected at least once during installation; inspections and maintenance will be conducted every other year thereafter. The following inspection documentation will be maintained:

- Inspection date
- Name and signature of inspector
- Facility location
- A description of the condition of the BMP including the quality of vegetation and soils; inlet and outlet channels and structures; catch basins and other control structures; sediment and debris accumulation
- Specific maintenance issues or violations that require correction with deadlines and reinspection dates

8.1.3 LONG-TERM STORMWATER BMP EMPLOYEE TRAINING

Objective: Training for employees regarding long-term stormwater management BMPs will serve to minimize impacts to stormwater quality following construction activities.

Permit Requirement: Part 4.2.5.6. - Long-term Stormwater Management in New Development and Redevelopment

Description of Task: Salt Lake County will provide annual training for personnel with regards to stormwater management, plan reviews, inspections, and enforcement. Training records will be maintained.

8.1.4 LONG-TERM STORMWATER BMP INVENTORY

Objective: Maintaining a BMP inventory will provide the County with information necessary in the implementation of this stormwater management program.

Permit Requirement: Part 4.2.5.7. - Long-term Stormwater Management in New Development and Redevelopment

Description of Task: Salt Lake County will maintain a long-term stormwater BMP inventory for all County facilities. The inventory will include the following information:

- Location
- Description of each BMP
- Description of maintenance requirements
- Inspection information and follow-up activities

8.2 GOALS 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.

Table 7 Long-term Stormwater Management Program Goals and Assessment

Year	Task	Goal	Assessment	Responsibility
8/20-8/25	Long-term Stormwater BMPs	<ul style="list-style-type: none"> • Develop retrofit plan 	Document development & implementation of plan	Flood Control Stormwater Program Supervisor
8/20-8/25	Long-term Stormwater Management	<ul style="list-style-type: none"> • Develop SOPs for inspections & enforcement 	Document development & implementation of SOPs	Flood Control Stormwater Program Supervisor
8/20-8/25	Long-term Stormwater Training	<ul style="list-style-type: none"> • Provide annual training 	Document training	Flood Control Stormwater Program Supervisor
8/20-8/25	Long-term Stormwater Inventory	<ul style="list-style-type: none"> • Develop & maintain inventory 	Document development of inventory Update as necessary	Flood Control Stormwater Program Supervisor

9.0 POLLUTION PREVENTION & GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

The Pollution Prevention & Good Housekeeping Program of the Stormwater Management Plan addresses routine activities in the operation and maintenance of drainage systems, roadways, parks and open spaces, and other municipal operations to help ensure a reduction in pollutants entering the storm drain system. This Program includes the development of SOPs for implementation at municipal facilities, inventories of facilities and floor drains, training, inspections, and visual monitoring requirements.

9.1 SUMMARY OF TASKS

This program will also be integrated with the Illicit Discharge Detection and Elimination Program to promote awareness of water quality concerns in performing routine roadway maintenance and operation and other practices. The following BMPs describe implementation tasks and assessment tasks to be completed by Salt Lake County for the Pollution Prevention/Good Housekeeping Program. Progress towards the measurable goals will be documented in the Annual Report.

9.1.1 MUNICIPAL MAINTENANCE

Objective: Conduct routine maintenance of the storm drain system and roads in a manner that minimizes stormwater pollution.

Permit Requirement: N/A

Description of Tasks: Continue routine maintenance of municipal facilities and document activities.

Storm Drain System Maintenance: Salt Lake County Public Works will continue routine maintenance of the storm drain system, including cleaning and repair. Catch basins are cleaned at least once a year. All activities will be documented, and the amount of material collected and disposed of will be noted.

Street Sweeping: Salt Lake County Public Works will continue routine street sweeping at least two times per year. Activities will be documented including the amount of material collected.

9.1.2 FACILITY INVENTORY

Objective: Maintenance of a County facility inventory will serve to minimize the discharge of stormwater pollutants by addressing the stormwater issues at the facilities identified.

Permit Requirement: Part 4.2.6.1. & 4.2.6.2. - Pollution Prevention & Good Housekeeping for Municipal Operations

Description of Task: Develop and keep current an inventory of municipal facilities and stormwater controls at these facilities. This inventory will include the types of facilities identified in Section 4.2.6.1 of the permit. This inventory will include a review of the materials kept on-site the potential

to discharge stormwater pollutants and on-site stormwater controls for these materials/activities. The inventory will be reviewed and updated on an annual basis. The inventory/assessment process will be documented; the process and inventory will be maintained in this SWMP (Appendix F).

9.1.3 HIGH-PRIORITY FACILITY IDENTIFICATION & SOPS

Objective: Identification of high-priority facilities with the intent to implement procedures to reduce the discharge of stormwater pollutants at these facilities will serve to minimize stormwater pollutant discharges.

Permit Requirement: Part 4.2.6.3., 4.2.6.4. & 4.2.6.5. - Pollution Prevention & Good Housekeeping for Municipal Operations

Description of Tasks: Salt Lake County Department of Engineering and Flood Control will identify high-priority facilities whose potential for discharge of stormwater pollutants warrants additional procedures or measures to reduce or eliminate impacts to stormwater quality.

Identify High-priority Facilities: Facilities identified with the potential to generate stormwater pollutants will be identified as “high priority” facilities. Consideration will be given to the amount of materials stored at each site, improperly stored materials, activities that occur outside, proximity to waterbodies, poor housekeeping practices, potential E. coli sources, and the discharge of pollutants to impaired waters.

Salt Lake County has identified 10 facilities that meet the standard to be designated a high-priority facility:

Midvale Public Works Operations Complex

Park Operations

Salt Lake Valley Solid Waste Facility

Transfer Station

Wheeler Farm

Open Space Parks (Sugarhouse Park, Decker Lake Park, Big Cottonwood/Creekside Park, Crestwood Park, Bingham Creek Regional Park)

High-priority Facility SWPPPs: Storm Water Pollution Prevention Plans will be prepared and implemented for each facility. Operation and maintenance procedures will be developed for those facilities identified as high-priority facilities. The SWPPPs will include BMPs with the intent to reduce the discharge of stormwater pollutants and will include consideration for implementing low impact design techniques.

In addition, SOPs will be developed for all other County owned facilities including:

- Buildings and Facilities – SOPs will be developed and implemented for those buildings and facilities that include buildings, pools, parking garages, utilities, etc. The SOPs will address the use, storage and disposal of chemicals and include employee training. Spill prevention control and countermeasure plans (SPCC) will be developed and maintained as necessary. SOPs will address dumpsters and other waste management including cleaning, washing, painting and other maintenance activities. SOPs will also include schedules and procedures for sweeping parking lots. An inventory of all floor drains inside these buildings/facilities and where these drain to, will be developed and kept current. Appropriate stormwater BMPs will be implemented in these buildings/facilities.
- Material Storage, Heavy Equipment Storage and Maintenance Areas – SOPs will be developed and implemented at these facilities to protect water quality.
- Parks and Open Space – SOPs will be developed to include the proper application, storage and disposal of fertilizers, pesticides and herbicides, sediment and erosion control, lawn maintenance and landscaping activities. The management of trash containers at parks and open spaces will be included, as well as signage for pet waste. The SOPs will also address proper cleaning of maintenance equipment, building exterior, trash containers and the disposal of the associated waste and wastewater.
- Vehicle and Equipment – SOPs will be developed and implemented that addresses vehicle maintenance and repair activities. Fueling and wash areas will be included and appropriate BMPs will be implemented, including providing cover, drip pans, indoor storage, etc.
- Roads, Highways and Parking Lots – SOPs will be developed and implemented for street and parking lot sweeping, procedures for removal of trash and debris from these areas, road and parking lot maintenance, cold weather operations, right-of-way maintenance, and municipally-sponsored events. Appropriate stormwater BMPs will be implemented.
- Stormwater Collection and Conveyance System – SOPs will be developed and implemented to address inspections, cleaning and repair of the stormwater system including catch basins, pipes, ditches and canals, culverts and structural BMPs. Schedules for these activities will be included in the SOPs. Structural BMPs will be inspected on an annual basis. More frequent inspections and maintenance will occur in those areas deemed as higher priority based on water quality concerns and the amount and type of material that typically accumulates in an area. Proper disposal of waste and wastewater removed during storm drain maintenance is currently implemented at the Midvale Operations Facility. This facility currently implements a Stormwater Pollution Prevention Plan (SWPPP) and a SPCC plan to minimize the discharge of stormwater pollutants.
- Other Facilities and Operations – SOPs for other facilities not listed above will be developed and implemented to protect water quality.

Third-party Maintenance: If the County contracts with a third-party for municipal maintenance or for private developments, the County will require contracts to ensure compliance with the UPDES permit and this SWMP. The County will require proper documentation or conduct site

visits to ensure stormwater BMPs are maintained appropriately.

9.1.4 HIGH PRIORITY FACILITY OPERATION AND MAINTENANCE INSPECTION PROGRAM

Objective: Implementation of a high priority facility operation and maintenance (O&M) program will serve to minimize the discharge of stormwater pollutants.

Permit Requirement: Part 4.2.6.5. - Pollution Prevention & Good Housekeeping for Municipal Operations

Description of Tasks: Salt Lake County Department of Engineering and Flood Control will conduct routine inspections of high-priority facilities and activities, including visual inspections of the sites and stormwater discharges, and comprehensive inspections of BMPs.

Monthly Visual Inspections: Monthly visual inspections of high-priority facilities will be conducted in accordance with the developed SOPs to verify the performance of the BMPs and all other systems designed and placed to eliminate any pollutant discharge. Records of these inspections will be made available upon request.

Semi-Annual Comprehensive Inspections: At least twice per year, a comprehensive inspection will be conducted as part of the SOPs at the high-priority facilities. These inspections will include stormwater controls for waste storage areas, dumpsters, vehicle and equipment maintenance/fueling areas, material handling areas, etc. Any deficiencies identified will be corrected and documented in the inspection report. Records of these inspections will be made available upon request.

Annual Visual Observation of Stormwater Discharges: Annual visual observations of the quality of stormwater discharges will be conducted at the high-priority facilities. Observations will be conducted and will be documented. Efforts will be made to remedy any observed problems as appropriate. Reports of these observations will be made available upon request.

9.1.5 WATER QUALITY ASSESSMENT OF FLOOD CONTROL PROJECTS

Objective: To minimize the impacts to water quality and hydrology through the review process of new flood management structural controls.

Permit Requirement: Part 4.2.6.8. - Pollution Prevention & Good Housekeeping for Municipal Operations

Description of Task: Develop and implement a process that considers potential impacts to water quality and hydrology when evaluating new flood control projects. Consideration will be given to implementation of stormwater BMPs to meet the objectives of this task. This process will be developed and maintained in Appendix F of this SWMP.

9.1.6 COUNTY CONSTRUCTION PROJECTS

Objective: To ensure public construction projects comply with state stormwater regulations to minimize impacts to stormwater quality due to construction activities.

Permit Requirement: Part 4.2.6.8. - Pollution Prevention & Good Housekeeping for Municipal Operations

Description of Task: Salt Lake County Department of Engineering and Flood Control will ensure that all County construction projects meeting the criteria for the UPDES Stormwater General Permit for Construction Activities will obtain and comply with said permit.

9.1.7 EMPLOYEE TRAINING

Objective: Provide training to County employees with regards to stormwater for the purpose of minimizing impacts to stormwater quality.

Permit Requirement: Part 4.2.6.10. - Pollution Prevention & Good Housekeeping for Municipal Operations

Description of Task: Salt Lake County Department of Engineering and Flood Control will provide annual training on protecting water quality, permit requirements, operation and maintenance requirements, inspection procedures and ways to prevent or minimize impacts to stormwater quality, SOPs for County facilities and procedures for reporting stormwater problems and illicit discharges. All new hires must be trained within 60 days of hire and annually, thereafter, at a minimum.

9.2 GOALS 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 scheduled identified.

Table 8 Pollution Prevention/Good Housekeeping Program Goals and Assessment

Year	Task	Goal	Assessment	Responsibility
8/20-8/25	Storm Drain Maintenance	• Conduct routine maintenance	Document activities & material removed	Public Works Operations
8/20-8/25	Street Sweeping	• Conduct routine street sweeping	Document activities & material removed	Public Works Operations
8/20-8/25	High Priority Facility SWPPPs	• Implement	Document activities Update as necessary	Public Works Operations Park Operations Solid Waste Flood Control
8/20-8/25	Facility Inventory	• Develop inventory of County facilities	Document process & results	Flood Control Stormwater Program Supervisor

8/20-8/25	High-Priority Operation & Maintenance Inspection Program	<ul style="list-style-type: none"> • Conduct monthly visual inspections • Conduct semi-annual comprehensive inspections • Conduct annual visual observations 	<p>Document results</p> <p>Document results</p> <p>Document results</p>	Flood Control Stormwater Program Supervisor
8/20-8/25	Water Quality Assessment of Flood Control Projects	<ul style="list-style-type: none"> • Include stormwater quality issues in review of flood control projects 	Develop & document	Flood Control Program Manager
8/20-8/25	Employee Training	<ul style="list-style-type: none"> • Provide annual training 	Document training, attendees, topics	Flood Control Stormwater Program Supervisor

10.0 INDUSTRIAL AND HIGH-RISK RUNOFF

The Industrial and High-Risk Runoff Program is no longer applicable for this Stormwater Management Plan, as Salt Lake County no longer has jurisdiction over these facilities. If that designation changes in the future, Salt Lake County will implement the plan as required.

11.0 MONITORING, RECORDKEEPING AND REPORTING

Stormwater monitoring, program recordkeeping and reporting is required under the UPDES permit, Part 5.0. However, Salt Lake County is currently not required to conduct wet weather monitoring and sampling, as it does not have jurisdiction within Phase I areas.

11.1 SUMMARY OF TASKS

This section describes DWQ recordkeeping and reporting requirements. This section will be integrated with the rest of the SWMP to ensure proper record keeping and reporting requirements are maintained. The following BMPs describe implementation tasks and assessment tasks to be completed by Salt Lake County. Progress towards the measurable goals will be documented in the Annual Report.

11.1.1 RECORDKEEPING

Objective: Recordkeeping is an important component of this SWMP and will serve to assess the permit compliance as well as meeting the goals and objectives of this plan.

Permit Requirements: Part 5.5 – Monitoring, Recordkeeping and Reporting

Description of Task: The County currently maintains stormwater program documents in an electronic format to comply with the permit requirement. This will also be used to conduct planning, set priorities, and evaluate permit compliance. Salt Lake County will maintain records of all activities associated with implementation of this SWMP for at least five years. Supplementary documents to the permit will be kept current; any modifications will be submitted to DWQ in accordance with the permit (supplementary documents are the appendices to the permit).

The Co-permittee Identification and Accountability statement will be kept current during the term of this permit.

11.1.2 REPORTING

Objective: Provide reports on activities conducted during the past year and prior years to determine permit compliance and success in meeting the goals of the SWMP. Revised SWMP as necessary.

Permit Requirements: Part 5.6 – Monitoring, Recordkeeping and Reporting

Description of Tasks: Develop an annual report that describes the past year's activities, a description of SWMP effectiveness and planned activities and changes. Conduct a fiscal analysis of program to ensure adequate funding to implement this plan. Update and submit a SWMP to DWQ in accordance with the time frame established in the permit.

Annual Report: Salt Lake County will submit an annual report to DWQ by October 1 of each year using the DWQ Annual Report Form (Appendix G). This report will summarize stormwater

activities conducted during the past year and will include results from the wet and dry weather monitoring. This report will be signed in accordance with Part 6.8 of the permit.

Annual Fiscal Analysis: Salt Lake County will conduct an annual analysis of the capital and operation and maintenance expenditures needed, allocated and spent, as well as the necessary staff resources needed and allocated to meet the permit requirements. This will be included in the Annual Reports.

SWMP Update, Review and Modifications: The 2020 SWMP will be posted on the Salt Lake County website to solicit comments during the SWMP update. The revised SWMP will be posted on this website and submitted to DWQ in June of 2020. The County will conduct an annual review of the SWMP to assess program implementation and permit compliance. Any modifications to this plan will be submitted to DWQ in accordance with Part 4.5 of the permit.

11.2 GOALS 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.

Table 9 Stormwater Monitoring & Reporting Program Goals and Assessment

Year	Task	Goal	Assessment	Responsibility
8/20-8/25	Documentation process	<ul style="list-style-type: none"> Maintain documentation process for all stormwater program documents 	Maintain records	Flood Control Stormwater Program Supervisor
8/20-8/25	Employee Training	<ul style="list-style-type: none"> Provide annual training for stormwater monitoring Include COC form training 	Document training and attendees	Flood Control Stormwater Program Supervisor
8/20-8/25	Co-permittee Identification & Accountability	<ul style="list-style-type: none"> Keep current 	Document	Flood Control Program Manager
8/20-8/25	Annual Report	<ul style="list-style-type: none"> Compile & submit an annual report of the year's activities. 	Submit reports to DWQ	Flood Control Stormwater Program Supervisor
8/20-8/25	Fiscal analysis	<ul style="list-style-type: none"> Conduct a fiscal analysis of program 	Assess program Submit to DWQ w/ Annual Report	Flood Control Program Manager
8/20-8/25	SWMP	<ul style="list-style-type: none"> Update SWMP Annual review of program implementation SWMP modifications 	Submit to DWQ Include in Annual Report Submit to DWQ	Flood Control Program Manager

