Salt Lake City Corporation
Public Utilities

2013 ANNUAL REPORT

UPDES PERMIT NO. UTS000002
FOR DISCHARGES FROM
MUNICPAL SEPARATE
STORM SEWER
SYSTEMS
Submitted to:
State of Utah
Department of Environmental Quality
Division of Water Quality

TABLE OF CONTENTS

TABLES

FIGURES

APPENDICES

INTRODUCTION

BACKGROUND

Salt Lake City (City) received an original Utah Pollutant Discharge Elimination System (UPDES) Permit (UTS000002), to discharge municipal stormwater, effective September 1, 1995. The UPDES Permit was issued by the Utah Division of Water Quality, Department of Environmental Quality (DEQ), after the City submitted a Part 1 and Part 2 UPDES Permit Application for discharges from municipal storm sewer systems, in accordance with 40 *Code of Federal Regulations* (CFR), Section 122.

The City received its second storm water permit issued on June 1, 2001, and the most recent permit was issued on June 1, 2006. The current permit expired on May 31, 2011. However, the city continues to operate under this expired permit on a temporary basis. The 2013 Annual Report (Report) is written according to the requirements of the current extended permit.

PURPOSE

The purpose of this 2013 Annual Report is to document activities from January 1, 2013 through December 31, 2013.

CURRENT STORM WATER MANAGEMENT PLAN

INTRODUCTION

The City's Storm Water Management Plan (SWMP) includes the seven control measures required in the current UPDES Permit. Proposed changes to the SWMP are included in Section IV of This Report. An outline of the SWMP is presented below:

STORM WATER MANAGEMENT PLAN

Goal

The goal of the Storm Water Management Plan (SWMP) is to protect beneficial use of the waters of the State of Utah. Pollutants carried by storm water runoff are a major contributor to water quality degradation in the waters of the State. The SWMP is designed to eliminate illicit connections to the Salt Lake City storm drain system and to reduce the discharge of pollutants from the Municipal Separate Storm Sewer System (MS4) to the maximum extent practicable.

Development Process

The development of the SWMP involved reviewing the existing Best Management Practices (BMPs) currently being implemented by the City. Where existing BMPs were found to be deficient or non-existent new BMPs were evaluated and selected to accomplish the goals of the program. Salt Lake City has maintained an ongoing approach to storm water management on a watershed basis.

Program Administration

The administration of the SWMP is the responsibility of the Salt Lake City Department of Public Utilities. The Storm Water Utility has been established as a separate enterprise fund of Salt Lake City. The Storm Water Utility is directly responsible for operation and maintenance of the Salt Lake City drainage system and related activities.

The Public Utilities Advisor Committee (PUAC) is a citizens committee appointed by the Mayor of Salt Lake City to advise the Department of Public Utilities in developing policy and procedures. Major policy decisions are reviewed by the PUAC.

Best Management Practices

Salt Lake City has focused its Storm Water Management Program on the elimination of storm water pollution at the sources of the pollution. The use of non-structural BMPs in the early stages of the program will yield the best results from the resources allocated. The SWMP will incorporate pollution prevention strategies such that the reduction in pollution is real and is not just

transferred to another media such as the sanitary sewer or solid waste. The City's Sanitary Sewer Utility has an active pretreatment and pollution prevention program. The Storm Water Utility has developed a program that works in partnership with local industry, business, residents, and governmental agencies to reduce storm water pollution. Salt Lake City's program is intended to be flexible and employ methods that will be relatively easy to incorporate new methods and procedures for controlling storm water pollution.

A. PLAN TO REDUCE POLLUTANTS FROM COMMERCIAL AND RESIDENTIAL AREAS

Commercial and residential areas generate a wide variety of pollutants that can be carried off by storm water runoff. Typical pollutants include debris, litter, oil and grease, pesticides, fertilizer, pet wastes, sediment and soil erosion.

Maintenance Activities for Structural Controls

Salt Lake City maintains a fleet of five Vactor trucks for cleaning storm drains and other storm drain structures. The maintenance program is established to clean the entire system on a five year basis. Major storm drain lines and detention basins are inspected on an annual basis. Detention basins are inspected annually. Salt Lake City operates four drag line machines to clean storm drains larger than 24 inches. A main line is scheduled to be cleaned when the annual inspection indicates approximately 20 percent of the pipe capacity is filled with sediment.

The Storm Water Utility uses a computerized work order system (CITYWORKS) to track system maintenance. Each system feature such as pipes, manholes, detention basins have been assigned a unique record in the database. Maintenance activity on each structural feature of the Salt Lake system is tracked.

The Storm Water Utility supports half the cost of the Salt Lake City green waste program. Green waste recycling "Tan Cans" allow Salt Lake City residents to recycle grass clippings, leaves, branches, fruit/vegetables waste, egg shells, coffee grounds, etc. The cans are collected weekly along with the scheduled garbage pickup. Street sweepers and Vactor trucks are also used extensively during the fall to remove leaves from the gutters and storm drain inlets.

Salt Lake City conducts a yearly neighborhood cleanup program. Residents may place yard debris such as large tree limbs, scrap metal and other non hazardous waste by the curb for collection by City crews. In conjunction with curb side recycling, Salt Lake City also offers Recycling containers for both yard waste and other household recyclable material. The program annually collects over 10,000 tons of debris.

The following BMP's will continue to be implemented to support the maintenance activity for structural controls.

BMP 1: Continue with the present schedule of drainage system maintenance. Clean all required portions of the system on a 5-year interval.

BMP 2: Inspect all major storm drains and detention basins annually. Clean and repair the facilities as needed.

BMP 3: Continue to offer and support the Salt Lake City Green Waste Program.

BMP 4: Continue the Neighborhood Clean Up Program.

BMP 5: Continue to clean leaves from the gutters and inlets during the fall leaf season.

BMP 6: Support the Salt Lake City curbside recycling effort.

BMP 7: Encourage and support citizen clean up days of selected waterways and channels.

BMP 8: Use the CITYWORKS work order system to track and schedule storm drain maintenance activities.

BMP 9: Conduct an annual training seminar for maintenance personnel on their role in maintaining storm water quality.

BMP 10: Develop and use environmentally sound disposal program for sediments and debris removed from storm drain facilities during regular scheduled maintenance.

New Development

New development and redevelopment areas can impact storm water quality because of increased runoff and resulting higher flow velocities. Salt Lake City requires all commercial, industrial, and residential developments with impervious areas greater than 15,000 square feet to provide onsite detention facilities to limit the discharge to a pre development rate of 0.2 cubic feet per second per acre (cfs/acre) during the 100 year storm. This regulation has been in place since 1978. The use of onsite detention promotes the reduction of the rate and volume of storm water discharges and improves storm water quality by reducing the post development run off velocities and resulting sediment transportation. The basins also collect floatable debris and litter before it can be discharged to a receiving water. Salt Lake City's Department of Public Utilities has modified its standard specifications to

require that contractors submit a Notification of Intent (NOI) to be covered under the State of Utah General Construction Storm Water Permit for projects that will disturb at least one acre. Sites greater than one acre and less than 5 acres, within Salt Lake City boundaries will also be required to obtain a permit from Salt Lake City Department of Public Utilities. The general permit condition requires that the contractor develop and implement a Storm Water Pollution Prevention Plan (SWPPP). Personnel from the Stormwater Program and Development Review will review the plans and construction activity SWPPP. Stormwater and utility inspectors will regularly review and inspect each site to ensure the plan is being implemented.

The Salt Lake City Zoning Ordinance (21A.31.130 – Riparian Corridor Overlay District) establishes a special overlay district for all lands near and adjacent to watercourses, lakes, ponds, flood plains and wetland areas. One of the stated purposes of the overlay zone is to improve water quality, both by filtering and storing sediments and attached pollutants, nutrients, and compounds before they drain into streams or wetlands, and by maintaining the natural pollutant assimilating capacities of stream, flood plains and wetlands.

The overlay district provides for specific measures such as setbacks and natural vegetative strips designed to protect water quality. Developments in these sensitive areas must have approved soils reports identifying soil stability. Drainage control plans, site grading and excavation plans must be submitted and approved before a permit is issued and before any work can be done.

In 2012, Salt Lake City developed a Design Standards and Processes Manual. Section 2.2.2 of the manual addresses Storm Water controls, including additional options and requirements for flood control, volume reduction, and storm water quality. The Manual recommends the consideration of Green Infrastructure (GI) to meet these goals.

BMP 11: Continue the requirement of on-site detention or retention for developments with impervious area greater than 15,000 square feet.

BMP 12: Enforce the requirements of Ordinance 21A.31.130 – Riparian Corridor Overlay District, for developments adjacent to waterways.

BMP 13: During the review of drainage plans, consider measures that will improve storm water quality. Prepare a set of standard BMPs that may be used to enhance storm water quality. Make these plans available to developers and their engineering consultants

BMP 14: Continue an annual review procedure to inspect private drainage detention basins to ensure control structures are in place and functioning properly.

Street, Road, and Highway Operations and Maintenance

The Salt Lake City Storm Water Utility pays for one half of the street sweeping programs in Salt Lake City. A fleet of nine street sweepers are operated by Salt Lake City. Industrial and commercial areas are scheduled to be swept on a monthly basis. Residential areas are scheduled to be swept every six months. A street sweeper is attached to the asphalt grinding and chipping section to sweep the streets behind maintenance activities. Streets are swept following the collection of the debris placed by residents during the neighborhood cleanup program.

BMP 15: Continue with the existing street sweeping program. Develop a monitoring program to document street sweeping activities.

BMP 16: Review the storm water management around street deicing salt piles.

BMP 17: Continue procedures for monitoring compliance with General storm water permit conditions on Public Works street construction projects.

BMP 18: Review proposed street maintenance projects for applicability of structural BMPs such as grassed swales and detention basins.

Flood Management Project Assessment and Existing Structural Control Evaluation

Salt Lake City Storm Water Utility conducted a complete basin and master planning effort with the Preparation of Part 2 of the original Permit application. The use of structural components to enhance storm water quality will be considered during the selection of recommended flood control improvements.

BMP 19: Develop a formal procedure for evaluating water quality aspects of all storm water capital improvements. Develop a list of applicable structural BMPs that may be used to enhance storm water quality.

BMP 20: Review existing detention basins to determine if modifications are feasible to enhance storm water quality.

Pesticide, Herbicide and Fertilizer Controls

BMP 21: Continue education programs on the proper use of pesticides, herbicides, and fertilizers.

Action A: Continue program to educate commercial applicators and other high volume users of pesticides, fertilizers, and herbicides, on the proper use and management of these products. Topics addressed include application methods and frequencies, sensitive areas, precautions, and storage and disposal methods. Alternative educational methods, including the use of brochures, pamphlets, workshops, and site visits will also be evaluated.

Action B: Continue program to educate municipal agency personnel responsible for channel maintenance, parks, golf courses, and highway rights-of-way on the proper use and management of pesticides, fertilizers, and herbicides. The program includes a discussion of alternative methods for controlling insects and weeds such as biological controls, less toxic chemicals and use of native vegetation. Alternative educational methods including internal workshops and guidance documents are evaluated.

Action C: Continue programs to educate the residents on the proper use and management of pesticides, fertilizers, and herbicides. The program addresses alternative methods for controlling insects and weeds such as biological controls, less toxic chemicals and use of native vegetation. Alternative information and educational activities are evaluated, including distribution of neighborhood fliers; brochures at retail stores, nurseries, public libraries, information booths at community events; and public service announcements, etc.

B. PLAN TO DETECT AND REMOVE ILLICIT DISCHARGES

One of the primary goals of Salt Lake City's storm water management program is the elimination of illicit discharges to the storm drain system. Salt Lake City ordinance Chapter 17.84 limits the substances that can be discharged to the Salt Lake City storm drain system to storm water, surface drainage, subsurface drainage, ground water, roof runoff, non contact cooling water, and other non polluted water.

Prevention

Salt Lake City has developed an industrial storm water pollution prevention program. The program is designed to work in partnership with the industrial and business community to identify and remove illicit connections to the storm drain system. The intent of the program is to provide consistent guidance and direction to the regulated community. Pollution prevention at the source is key element of the program.

BMP 22: Continue to implement an industrial storm water pollution prevention program. The program is responsible for investigating and removing illicit connects to the storm drain system.

BMP 23: Maintain a database of industrial users based on North American Industrial Classification System (NAICS) or Standard Industrial Classification (SIC) codes. The first 3 digits of the Salt Lake City business license are the facility SIC code. Priorities target industries and business that have a high potential for illicit connections.

BMP 24: Coordinate with the activities and inspections of the publicly owned treatment works (POTW) pretreatment personnel. Any observed illicit connections will be followed up by the storm water pollution prevention specialist.

BMP 25: Maintain records and a computerized database of all illicit connection investigations and enforcement.

BMP 26: Review all new commercial and industrial development plans to insure plans are in compliance. Provide in-house training of plan reviewers.

BMP 27: Support the Salt Lake County Health Departments Household Hazardous Waste Program. Advertise collection days and locations.

Field Screening Activities

The SIMs maps prepared for Part 1 of the original Permit application indicated that the highest concentration of potential illicit connections is along the I-15 corridor that contains a mix of older industrial and commercial land uses. The initial efforts of the on-going field screening program will concentrate on this area. Salt Lake City maintains a series of storm drain maps for the entire City system. The maps are broken down by quarter section. The target area is broken down by quarter section based on the storm drain system maps. The manholes located furthest downstream on each map will be investigated for illicit flows.

BMP 28: Continue systematic program for investigating illicit flows. Program will include selecting monitoring sites, filed procedures, reporting, site investigation, action taken, follow up action items. Develop computerized database to track investigations.

BMP 29: Continue to enforce Memorandum of Understanding (MOU) with the Salt Lake County Health Department concerning respective roles in illicit connection investigation and enforcement

BMP 30: Continue to maintain personnel to respond to reports of discharges and as fully as possible, to identify and investigate the source of the discharge and use regulatory authority to enforce actions against violators so that the illicit discharge activity is corrected.

BMP 31: Promote interagency cooperation in the investigation, assessment, and gathering of evidence relating to illicit and illegal discharges.

BMP 32: Pursue prosecutions and court-ordered solutions to significant contamination problems.

BMP 33: Investigate sources of observed dry weather flows. Inspectors rely mainly on visual observation and use of simple colorimetric field test kits where appropriate. This measure requires personnel to trace an observed discharge through the storm drain system.

Spill Prevention, Containment and Response

BMP 34: Continue to implement the formal spill response plan. Incorporate elements of the existing Hazardous Materials Spill response plan. Prepare a MOU between the Salt Lake City Fire Department concerning initial spill response and containment.

BMP 35: Maintain a list of certified contractors, suppliers and contracting procedures to respond to containment and cleanup of spilled materials.

BMP 36: Provide 40 hours of OSHA required Hazardous Materials Training to selected storm drainage maintenance personnel.

BMP 37: Develop a MOU with the Salt Lake City County Health Department to promote public reporting of illicit discharges.

Oil and Toxic Materials

BMP 38: Continue to implement public education program targeted to industrial, business audiences to encourage the proper disposal of oil and toxic materials. This aspect of the public education program will occur within the existing Pollution Prevention education program currently being run by the Department of Public Utilities.

BMP 39: Continue to implement educational program aimed at residential audiences to promote the proper disposal of oil and household toxic materials. The program will include a flyer inserted into the Storm Water Utility bills. In addition, educational displays will be utilized at public meetings and events will.

Exfiltration

The Sanitary Sewer Utility and the Storm Water Utility for Salt Lake City are managed by the Department of Public Utilities. Any suspected exfiltration of sanitary sewage will be addressed on a case-by-case basis.

BMP 40: Continue procedure for reporting and investigating possible exfiltration of sanitary sewage to the storm drain system.

C. PLAN TO REDUCE POLLUTANTS FROM INDUSTRIAL AREAS

Part 1 of the original Permit application identified three (3) municipal landfills in the Salt Lake City Study area. No hazardous waste treatment, disposal and recovery facilities have been identified in the study area. The two other categories identified in the permit requirements which are relevant to Salt Lake City include: 1) industrial facilities subject so section 313 of Title III of Superfund Amendments and Reauthorization Act of 1986 (SARA); and 2) other industrial facilities determined by the City to contribute substantial pollutant loadings to the City storm drain system. The regulations do not define substantial pollutant loadings, but it is appropriate to consider substantial quantities as being those quantities which can impair beneficial used of surface waters, or violate an established water quality standard.

BMP 41: Maintain an industrial user's database.

Action A: Maintain an industrial database to record which industrial facilities are subject to section 313 Title III of SARA (1986). The industrial database will specifically identify these

facilities, and those facilities determined through field screening activities, that may be contributing a substantial pollutant loading to the storm drain system. The industrial discharge connection point to the Salt Lake City system will be attached to a specific manhole record in the CITYWORKS Storm water maintenance tracking program. The intent of the database record is to track potential pollutants upstream from any outfall. If a certain pollutant is detected in a drainage system outfall, a search of the database will reveal all upstream industries that have indicated the constituent pollutant is present at the industrial site.

Inspection and Establishment of Control Measures

The State of Utah General Permit requires the industrial facilities applying for coverage under the general industrial permit to prepare a SWPPP. The program to control, inspect and monitor pollutants from SARA Title III Section 313 industrial facilities is also addressed by the State General Storm Water Permit. The facility management is required to provide Salt Lake City a copy of the plan when requested.

BMP 42: Salt Lake City will obtain copies of all the SWPPP prepared for industrial facilities within the Salt Lake City area. Additional controls may be placed on the facility if deemed appropriate.

Monitoring Program for Industrial Facilities and Landfills

Many of existing and proposed industrial facilities, including the Salt Lake County Landfill, are required to comply with the Utah General Permit for Industrial Discharges. The General Permit requires the development and implementation of a SWPPP for storm water discharges associated with the industrial activity. The Utah General Permit for Industrial Discharges lists specific compliance measures, training of facility employees and contractor personnel, monitoring requirements, and inspection requirements for industries subject to the US EPA Emergency Planning and Community Right to Know Act (EPCRA) Section 313 requirements (Permit Section III.E.2). The measures are intended to reduce pollutant contact with rainfall and runoff.

All facilities covered by the Permit which discharge to a municipal storm drain system must comply with the applicable requirements of the municipality. Additionally, the General Permit requires that the facilities with discharge entering into a municipal storm drain system must file a completed copy of the NOI to the municipal operator of the storm drain system.

Salt Lake City requires each permitted industrial facility to obtain an Industrial Stormwater Discharge permit in coordination with the Utah General Permit for Industrial Discharge.

BMP 43: Identify industrial, commercial, and retail target groups and prepare a priority plan for distributing information to these groups, including notifying the industrial facilities of the compliance requirements of the State General Industrial Storm Water Permit.

BMP 44: Continue storm water pollution prevention coordinator staff position. The staff position will be responsible for working with industry to minimize the pollutants released to the Salt Lake City storm drain system.

BMP 45: Review landfill-monitoring data. Based on this analytical data, determine if additional inspection, control, and monitoring requirements should be needed.

D. PLAN TO REDUCE POLLUTANTS FROM CONSTRUCTION SITES.

Construction activity can contribute to storm water pollution through uncontrolled erosion and sedimentation, fueling activities and dust generation. Salt Lake City Ordinance Chapter 18.28 adopts specific site development regulations requiring the development and submission of temporary and permanent erosion control plans for both subdivision and building site developments. A wheel cleaning regulation is enforced on all projects that have construction traffic being routed on to existing City streets.

All construction projects disturbing 1 acre or greater are required to apply for coverage under the State of Utah general permit for construction activity. Sites between 1 & 5 acres are required to obtain a permit from Salt Lake City in addition to the States permit. Salt Lake City has added Section 6.07 paragraph G to its general contract conditions which specifically requires contractors to prepare a SWPPP for the construction activity. The Contractor is required to provide a copy of the plan to Salt Lake City upon request.

Salt Lake City Stormwater staff will continue to provide construction site inspections as needed. Inspections will include a review of the SWPPP, verification of compliance to permit requirements, and implementation of erosion and sediment controls.

BMP 46: Continue training program for site development review personnel to expand their knowledge of storm water pollution prevention techniques and practices.

BMP 47: Review construction site BMPs and implement BMPs guidance document that can be used in the Salt Lake area. Coordinate with Salt Lake County.

BMP 48: Continue program for obtaining and reviewing SWPPPs prepared by contractors for projects disturbing more than 1 acre.

Site Inspection and Enforcement

BMP 49: Develop an interdepartmental MOU addressing the enforcement of construction activity erosion control plans and SWPPP.

BMP 50: Identify erosion control measures as a specific item in contract bid schedules and performance bond requirements.

BMP 51: Participate in education training and seminars conducted by the State of Utah and other agencies. Participate in a joint education program with Salt Lake County.

E. MINIMUM CONTROL MEASURES BEST MANAGEMENT PRACTICES IMPLEMENTATION

The Permit, issued to Salt Lake City Corporation by the State of Utah became effective on June 1, 2001. The Permit requires the SWMP address seven control measures in accordance with Part II.F.2. The 51 BMPs address the seven control measures as follows:

a. *Public Education and Outreach*: The following BMPs have been developed and implemented as a public education program with materials that describe the impacts of storm water and actions to reduce pollutants.

BMP	Description
BMP 3:	Support Salt Lake City "Tan Can" yard waste pickup
BMP 4:	Continue the Neighborhood annual cleanup program.
BMP 6:	Support the Salt Lake City Curbside recycling effort.
BMP 21:	Continue education program on the proper use of pesticides and fertilizers.
BMP 27:	Promote City-County Health Department Household Hazardous Waste Facility and Collection Days.
BMP 37:	Develop a Memorandum of Understanding with the Salt Lake County Health Department to promote public reporting of illicit discharges.
BMP 39:	Continue education for residential users on oil and toxic materials disposal.
BMP 43:	Identify industrial groups and distribute water quality education materials to them.

b. *Public Involvement/Participation*: The following BMPs have been developed and implemented as a public involvement/participation program to include public involvement.

BMP	Description
BMP 4:	Continue the Neighborhood annual cleanup program.
BMP 5:	Remove leaves from gutters during the fall leaf season.
BMP 6:	Support the Salt Lake City Curbside recycling effort.
BMP 7:	Support scheduled citizen clean-up days of selected waterways.
BMP 27:	Promote City-County Health Department Household Hazardous Waste Facility and Collection Days.
BMP 37:	Continue to promote program of public reporting of illicit discharges.
BMP 39:	Continue education for residential users on oil and toxic materials disposal.
BMP 44:	Staff a position for coordinating storm water pollution prevention.

c. *Illicit Discharges and Improper Disposal*: The following BMPs have been implemented to detect and eliminate illicit discharges and improper disposal into the storm drain system.

BMP	Description
BMP 2:	Inspect drainage facilities annually.
BMP 9:	Conduct annual training for drainage system maintenance personnel.
BMP 10:	Continue proper disposal methods for sediments from storm.
BMP 21:	Continue education program on the proper use of pesticides and fertilizers.
BMP 22:	Continue SWPP program to coincide with pretreatment program.
BMP 23:	Maintain industrial user SIC code database.
BMP 24:	Coordinate with POTW pretreatment program.
BMP 25:	Maintain records and database of all illicit connection investigations.
BMP 26:	Review all new developments plans for compliance and illicit connections.
BMP 27:	Promote City-County Health Department Household Hazardous Waste Facility and Collection Days.
BMP 28:	Continue program for investigating illicit flows and connections.
BMP 29:	Continue to enforce Memorandum of Understanding with City-County Health Department.
BMP 30:	Maintain staff to respond to reports of illicit discharges.
BMP 31:	Promote interagency cooperation concerning illicit flows investigation.
BMP 32:	Pursue prosecutions and court ordered solutions to contamination problems.
BMP 33:	Investigate dry weather flows.
BMP 37:	Continue to promote program of public reporting of illicit discharges.
BMP 38:	Continue education program for industrial users on oil and toxic materials disposal.

BMP 39:	Continue education for residential users on oil and toxic materials disposal.
BMP 40:	Continue reporting and investigating infiltration of sanitary sewage to storm drains.
BMP 44:	Staff a position for coordinating storm water pollution prevention.
BMP 46:	Continue a storm water quality-training program for development review personnel.
BMP 50:	For City projects identify erosion control measures as a specific bid item.

d. *Construction Site Storm Water Runoff*: The following BMPs have been developed and implemented to enforce a program to reduce pollutants to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre.

BMP	Description
BMP 12:	Enforce the requirements of Ordinance 21A.31.130 – Riparian Corridor Overlay District, for developments adjacent to waterways.
BMP 13:	Provide Standard BMPs for site development to developers and engineers.
BMP 17:	Continue procedures for monitoring storm water management on Public Works projects.
BMP 30:	Maintain staff to respond to reports of illicit discharges.
BMP 31:	Promote interagency cooperation concerning illicit flows investigation.
BMP 32:	Pursue prosecutions and court ordered solutions to significant contamination problems.
BMP 37:	Continue to promote program of public reporting of illicit discharges.
BMP 43:	Identify industrial groups and distribute water quality education materials to them.
BMP 44:	Staff a position for coordinating storm water pollution prevention.
BMP 46:	Continue a storm water quality-training program for development review personnel.
BMP 47:	Coordinate with Salt Lake County regarding BMP guidance information for construction sites.
BMP 48:	Continue to obtain and review SWPPP prepared by contractors.
BMP 49:	Develop a program to enforce SWPPP.
BMP 50:	For City projects identify erosion control measures as a specific bid item.

e. *Post-Construction Storm Water Management in New Development and Redevelopment:* The following BMPs have been developed and implemented to address post construction development to prevent or minimize water quality impacts.

BMP	Description
BMP 11:	Continue requirements for on-site detention for developments.
BMP 12:	Enforce the requirements of Ordinance 21A.31.130 – Riparian Corridor Overlay District, for developments adjacent to waterways.
BMP 14:	Continue annual review program for private drainage detention facilities.

BMP 18:	Review proposed street projects for applicability of structural BMPs.
BMP 19:	Review all proposed storm water projects for applicability of structural BMPs.
BMP 20:	Review detention basins for feasibility of retrofitting for water quality enhancements.
BMP 26:	Review all new developments plans for compliance and illicit connections.
BMP 46:	Continue a storm water quality-training program for development review personnel.
BMP 47:	Coordinate with Salt Lake County regarding BMP guidance information for construction sites.

f. *Pollution Prevention/Good Housekeeping for Municipal Operations:* The following BMPs have been developed and implemented a training program with the ultimate goal of preventing or reducing polluted runoff from municipal operations.

BMP	Description
BMP 1:	Clean all required portions of the drainage system every 5 years.
BMP 2:	Inspect drainage facilities annually.
BMP 5:	Remove leaves from gutters during the fall leaf season.
BMP 6:	Support the Salt Lake City curbside recycling effort.
BMP 8:	Track drainage system maintenance using CITYWORKS system.
BMP 9:	Conduct annual training for drainage system maintenance personnel.
BMP 10:	Continue proper disposal methods for sediments from storm drain cleaning.
BMP 15:	Support the existing Salt Lake City Street Sweeping program.
BMP 16:	Review salt pile storm water management.
BMP 17:	Continue procedures for monitoring storm water management on Public Works projects.
BMP 18:	Review proposed street projects for applicability of structural BMPs.
BMP 19:	Review all proposed storm water projects for applicability of structural BMPs.
BMP 20:	Review detention basins for feasibility of retrofitting for water quality enhancements.
BMP 34:	Continue to implement storm drain spill response plan.
BMP 35:	Update list of certified contractors and suppliers for spill response.
BMP 36:	Provide 40 hours of OSHA required Hazardous Materials training to selected personnel.
BMP 51:	Participate in seminars conducted by the State of Utah and other agencies.

g. *Industrial and High Risk Runoff:* The following BMPs have been implemented to monitor pollutants in the runoff from high risk industrial facilities.

BMP	Description
BMP 22:	Continue SWPP program to coincide with pretreatment program.
BMP 23:	Maintain industrial user SIC code database.
BMP 38:	Continue education program for industrial users on oil and toxic materials disposal.

BMP 41:	Maintain an industrial user's database.
BMP 42:	Obtain and review SWPPP prepared by industrial users within the Salt Lake City area.
BMP 43:	Identify industrial groups and distribute water quality education materials to them.
BMP 45:	Review landfill-monitoring data.

Because the current permit is expired, Salt Lake City will continue to implement the Stormwater Management Plan and the associated BMPs. Any changes to the Stormwater Management Plan are included in Section IV. Figure II.1 shows the Salt Lake City Stormwater Program Organizational Chart and Figure II.2 diagrams the Stormwater Permit Responsibilities.

FIGURE II.1

Salt Lake City Stormwater Program Organizational Chart

WATER QUALITY

Jesse Stewart
Water Quality Administrator

Arlene Larsen
Regulatory Program Manager

ENGINEERING

WATER AND SEWER INSPECTORS

Bernard Mo
Engineer VI

STORM DRAIN INSPECTORS

Dave Koltz
Engineer V

NEW DEVELOPMENT INSPECTORS

PRE-TREATMENT

STORMWATER

Jason Draper
Program Manager

Greg Archuleta
Industrial Stormwater Coordinator

Anthony Garcia
Stormwater Technician

DEVELOPMENT

Brad Stewart
Engineer VI

CONTRACTS

PLAN REVIEW

Derek Velarde
Engineer IV

Justin Stoker
Engineer V

Bridget Elliot
Engineer IV

GIS/MAPPING

Tammy Wambeam
Geographic Information Specialist

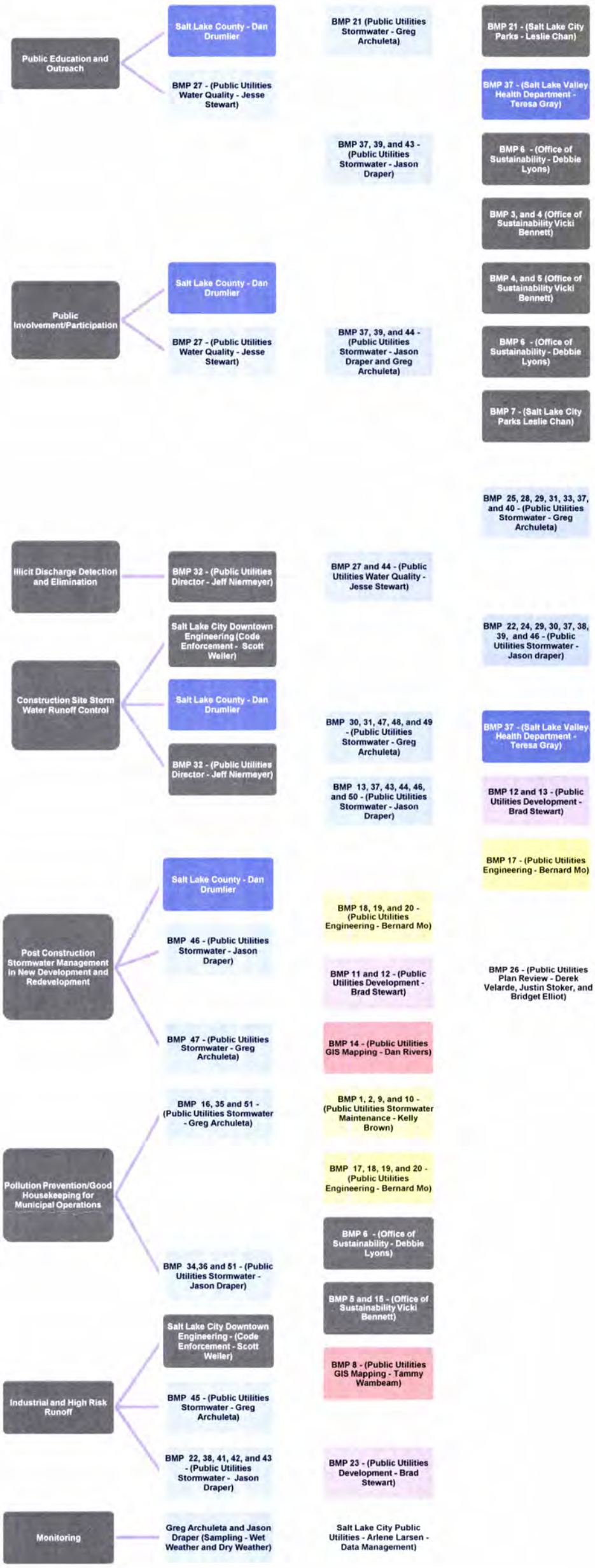
Dan Rivers GIS Specialist

STORMWATER MAINTENANCE

Kelly Brown
Stormwater Maintenance Manager

Scott Swanger
Maintenance Supervisor

Dennis LLoyd
Maintenance Supervisor



BMPS 1: Continue with the present schedule of drainage system maintenance. Clean all required portions of the system on a 5-year interval.

BMPS 2 Inspect all major storm drains and detention basins annually. Clean and repair the facilities as needed.

BMPS 3: Continue to offer and support the Salt Lake City Leaf Bag Program.

BMPS 4: Continue the Neighborhood Clean Up Program.

BMPS 5: Continue to clean leaves from the gutters and inlets during the fall leaf season.

BMPS 6: Support the Salt Lake City curbside recycling effort.

BMPS 7: Encourage and support citizen clean up days of selected waterways and channels.

BMPS 8: Use the CITYWORKS work order system to track and schedule storm drain maintenance activities.

BMPS 9: Conduct an annual training seminar for maintenance personnel on there role in maintaining storm water quality.

BMPS 10: Develop and use environmentally sound disposal program for sediments and debris removed from storm drain facilities during regular scheduled maintenance.

BMPS 11: Continue the requirement of on-site detention for developments with impervious area greater than 15,000 square feet.

BMPS 12: Enforce the requirements of the Zoning Ordinance Chapter 16-4 for developments adjacent to waterways.

BMPS 13: During the review of drainage plans, consider measures that will improve storm water quality. Prepare a set of standard BMPs that may be used to enhance storm water quality. Make these plans available to developers and their engineering consultants.

BMPS 14: Continue an annual review procedure to inspect private drainage detention basins to insure control structures are in place and functioning properly.

BMPS 15: Continue with the existing street sweeping program. Develop a monitoring program to document street sweeping activities.

BMPS 16: Review the storm water management around street deicing salt piles.

BMPS 17: Continue procedures for monitoring compliance with General storm water permit conditions on Public Works street construction projects.

BMPS 18: Review proposed street maintenance projects for applicability of structural BMPs such as grassed scales and detention basins.

BMPS 19: Develop a formal procedure for evaluating water quality aspects of all storm water capital improvements. Develop a list of applicable structural BMPs that may be used to enhance storm water quality.

BMPS 20: Review existing detention basins to determine if modifications are feasible to enhance storm water quality.

BMPS 21: Continue education programs on the proper use of pesticides, herbicides, and fertilizers.

BMPS 22: Continue to implement a storm water pollution prevention program similar to the industrial pretreatment program. The program will be responsible for investigating and removing illicit connects to the storm drain system.

BMPS 23: Maintain a database of industrial users based on NAICS or SIC code. The first 3 digits of the Salt Lake City business license are the facility SIC code. Priorities target industries and business that have a high potential for illicit connections.

BMPS 24: Coordinate with the activities and inspections of the POTWs pretreatment personnel. Any observed illicit connections will be followed up by the storm water pollution prevention specialist.

BMP 25: Maintain records and a computerized database of all illicit connection investigations and enforcement.

BMP 26: Review all new commercial and industrial development plans to insure plans are in compliance and that illicit connections to the storm drain are not constructed. Provide in-house training of plan reviewers.

BMPS 27: Support the Salt Lake City County Health Departments Household Hazardous Waste Program. Advertise collection days and locations.

BMPS 28: Continue systematic program for investigating illicit flows. Program will include selecting monitoring sites, filed procedures, reporting, site investigation, action taken, follow up action items. Develop computerized database to track investigations.

BMP 29: Continue to enforce Memorandum of Understanding with the Salt Lake Valley Health Department concerning respective roles in illicit connection investigation and enforcement.

BMP 30: Continue to maintain personnel to respond to reports of discharges and as fully as possible, to identify and investigate the source of the discharge and use regulatory authority to enforce actions against violators so that the illicit discharge activity is corrected.

BMP 31: Promote interagency cooperation in the investigation, assessment, and gathering of evidence relating to illicit and illegal discharges.

BMP 32: Pursue prosecutions and court-ordered solutions to significant contamination problems.

BMP 33: Investigate sources of observed dry weather flows. Inspectors will rely mainly on visual observation and use of simple colorimetric field test kits where appropriate. This measure will require personnel to trace an observed discharge through the storm drain system.

BMP 34: Continue to implement the formal spill response plan. Incorporate elements of the existing Hazardous Materials Spill response plan. Prepare a Memorandum of Understanding between the Salt Lake City Fire Department concerning initial spill response and containment.

BMP 35: Develop a list of certified contractors, suppliers and contracting procedures to respond to containment and cleanup of spilled materials.

BMP 36: Provide 40 hours of OSHA required Hazardous Materials Training to selected storm drainage maintenance personnel.

BMP 37: Develop a Memorandum of Understanding with the Salt Lake City County Health Department to promote public reporting of illicit discharges. Consider developing a flyer for inserting into the Storm Water Utility bills providing information on illicit flows and reporting procedures.

BMP 38: Continue to implement public education program targeted to industrial, business audiences to encourage the proper disposal of oil and toxic materials. This aspect of the public education program will occur within the existing Pollution Prevention education program currently being run by the Department of Public Utilities.

BMP 39: Continue to implement educational program aimed at residential audiences to promote the proper disposal of oil and household toxic materials. The program will include a flyer inserted into the Storm Water Utility bills (approximately 48,000 accounts). Also educational displays at public meetings and events will be used.

BMP 40: Continue procedure for reporting and investigating possible infiltration of sanitary sewage to the storm drain system.

BMP 41: Maintain an industrial users database.

BMP 42: Salt Lake City will obtain copies of all the SWPPP prepared for industrial facilities within the Salt Lake City area. Additional controls may be placed on the facility if deemed appropriate.

BMP 43: Identify industrial, commercial, and retail target groups and prepare a priority plan for distributing information to these groups, including notifying the industrial facilities of the compliance requirements of the State General Industrial Storm Water Permit.

BMP 44: Continue storm water pollution prevention coordinator staff position. The staff position will be responsible for working with industry to minimize the pollutants released to the Salt Lake City storm drain system. The position will work closely with the Salt Lake City POTW pretreatment coordinator.

BMP 45: Review landfill-monitoring data. Based on top his analytical data, determine if additional inspection, control, and monitoring requirements should be needed.

BMP 46: Continue training program for site development review personnel to expand their knowledge of storm water pollution prevention techniques and practices.

BMP 47: Review construction site BMPS and implement BMPS guidance document that can be used in the Salt Lake area. Coordinate with Salt Lake County.

BMP 48: Continue program for obtaining and reviewing SWPPPs prepared by contractors for project disturbing more than 1 acre.

BMP 49: Develop an interdepartmental memorandum of understanding addressing the enforcement of construction activity erosion control plans and SWPPP.

BMP 50: Identify erosion control measures as a specific item in contract bid schedules and performance bond requirements.

BMP 51: Participate in education training and seminars conducted by the State of Utah and other agencies. Consider developing a joint education program with Salt Lake County.

STORM WATER MANAGEMENT PLAN IMPLEMENTATION STATUS

INTRODUCTION

The purpose of this chapter is to show the implementation status of the Storm Water Management Plan (SWMP). The BMP components for the SWMP are presented below. This includes the BMP goal, description, measurement, reduction or benefit, and the method of implementation.

BMP 1: Clean all required portions of the drainage system every five years.

GOAL: To keep the storm drainage conveyances clean and clear of debris, and minimize organic matter and litter from entering into the storm drainage system and Waters of the State.

DESCRIPTION: The Salt Lake City Storm Water Utility is responsible for keeping the drainage conveyances clean. The system consists of approximately 340 miles of pipe, 114 detention basins, and 91 miles of open ditches and channels. The maintenance program is designed to facilitate cleaning the entire system on a five-year cycle. Salt Lake City maintains a fleet of five Vactor trucks and four dragline machines, used for storm drains larger than 24 inches, to clean storm drain structures. Major storm drains are inspected on an annual basis. Detention basins are inspected annually. Main Lines are scheduled to be cleaned when the annual inspection indicates approximately 20 percent of the pipe capacity is filled with sediment.

MEASUREMENT: The CITYWORKS Work Order System is used to track system maintenance. Each system feature such as pipes, manholes, and detention basins, have been assigned a unique record in the data- base. Maintenance activity on each structural feature of the Salt Lake City system is tracked. The number of complaints is also tracked.

REDUCTION OR BENEFIT: The benefit attributed to the implementation of this BMP is the removal of sediments and pollutants that collect in the storm drain conveyances and ultimately enter the Waters of the State. The removal of this sediment mitigates adverse consequences to aquatic life in streams and lakes. Additional benefits include the enhancement of aesthetic values of the waters by reducing the litter and sediment load. Keeping the lines free and clear of debris

allows storm water runoff to convey through the drainage system as designed.

IMPLEMENTATION: Salt Lake City Storm Water Utility will continue to implement this BMP. The Storm Drainage Manager is responsible for coordinating and prioritizing this task. The CITYWORKS Work Order System will be used for scheduling, and as a tracking measure of the status of the drainage system. In 2013, Storm drainage crews implemented a floatables removal program. Four major outfalls to the Jordan River have specific floatable removal BMPs. BMPs are installed based on the flow, type and configuration of the storm drain outfall. The following presents the portion of the drainage system cleaned during 2009 through 2013. Numbers are for Fiscal Year as reported in the Salt Lake City Corporation Department of Public Utilities Statistical Report.

SYSTEM FACILITIES CLEANED

YEAR	PIPE	GUTTER	INLETS/BOXES
2009	69,792 ft.	34,335 ft.	14,004 inlets/boxes
2010	33,527 ft.	154,955 ft.	12,232 inlets/boxes
2011	70,005 ft.	118,505 ft.	7,447 inlets/boxes
2012	123,486 ft.	177,110 ft.	7,478 inlets/boxes.
2013	**252,884 ft.**	**434,305 ft.**	**13,387 inlets/boxes.**

	DITCHES AND CANALS	FLOATABLES
2009	25,721 ft.	
2010	22,895 ft.	
2011	12,849 ft.	
2012	12,777 ft.	
2013	**28,033 ft.**	**250 cubic ft.**

BMP 2: Inspect all major storm drains and detention basins annually. Clean and repair the facilities as needed.

GOAL: To keep all of the major storm drains and detention basins in repair and clean of any debris or sediment that may keep them from efficient operation.

DESCRIPTION: The Salt Lake City Storm Water Utility is responsible for inspecting and keeping all major storm drains and detention basins clean and repaired. Major storm drain lines are inspected on an annual basis. Detention basins are inspected annually. The Storm Water Utility maintenance manager will schedule these inspections during the months of January through March, prior to spring run-off. Inspection dates, cleaning and repairs will be tracked on the CITYWORKS Work Order System.

MEASUREMENT: The CITYWORKS Work Order System will be used for keeping track of all of the major storm drains and detention basins inspected, and document any repairs or cleanup.

REDUCTION OR BENEFIT: The benefit attributed to the implementation of this BMP is the maintenance of flow capacity, and the reduction of sediments and pollutants that would collect in the storm drain conveyances and ultimately enter the Waters of the State. The removal of this sediment and debris mitigates adverse consequences to aquatic life in streams and lakes. Aesthetic values of the waters are also enhanced, by reducing the litter and sediment load. Keeping the major storm drainage conveyances and detention basins free from any obstructions allows the storm water runoff to convey through the drainage system as designed.

IMPLEMENTATION: The Salt Lake City Storm Drainage will continue to implement this BMP. The Storm Drainage Manager is responsible for scheduling and coordinating the inspections and cleaning of these facilities on an annual basis. As lines are inspected, repairs are made and the line is cleaned, as necessary. Any repairs or clean up will be documented on the CITYWORKS Work Order System.

YEAR	FEET OF PIPE INSPECTED	DETENTION BASINS INSPECTED
2009	792,607	39
2010	431,072	39
2011	177,307	35
2012	164,384	73
2013	**634,062**	**75**

BMP 3: Support Salt Lake City Tan Can Program.

GOAL: To minimize or eliminate fall leaves from getting into the gutters and storm drain system.

DESCRIPTION: The Tan Can program is administered through the Public Service Division. The leaves are used in the composting operation at the landfill. The composting is available for government landscaping projects, commercial landscaping, and residential use. The Tan Can program was initiated in October 2009. Salt Lake City replaced the plastic leaf bags with containers in order to lessen the amount of non-biodegradable material in the landfills and to reaffirm Salt Lake City's commitment to sustainability.

MEASUREMENT: The tons of leaves composted and used for landscaping will be used to measure the effectiveness of this BMP.

REDUCTION OR BENEFIT: The implementation of this BMP helps prevent organic pollutants to the maximum extent practicable (MEP), from entering the drainage system, mitigating the consequences of organic pollution from the leaves that may otherwise enter the storm drain conveyance and the receiving water bodies. Additional benefits include providing safety to the community and the availability of composting material for landscaping.

IMPLEMENTATION: Salt Lake City Storm Water Utility will continue to support this BMP. The Storm Water Utility will assist Public Works in distributing information to the City residents. Salt Lake City Department of Public Utilities will continue to support the aforementioned program.

YEAR	YARD WASTE BINS IN SERVICE	TONS OF LEAVES COLLECTED
2009	600,000 – Leaf Bags	2,450 Tons
2010	39,768 – Yard Waste Bins in Service	3,283 Tons
2011	41,059 – Yard Waste Bins in Service	3,628 Tons
2012	41,200 – Yard Waste Bins in Service	3,662 Tons*
2013	**40,033– Yard Waste Bins in Service**	**2,483 Tons***

BMP 4: Continue the Neighborhood Cleanup Program.

GOAL: To keep household refuse and debris from entering the storm drainage conveyances that lead to the rivers and canals.

DESCRIPTION: Salt Lake City conducts a yearly neighborhood cleanup program. Residents may place yard debris such as grass, leaves, tree limbs, and other non-hazardous waste by the curb for collection by City crews. An effort is made to separate organic material (e.g. bushes and trees) for mulching, the program runs for thirty-one weeks, from April to November with approximately 4,000 tons of yard debris collected annually. The areas are rotated each year in an effort to offer the citizens a spring and fall clean up option every other year. Each week approximately 1,300 to 1,500 residential homes receive the service.

MEASUREMENT: The amount of residential debris removed each year is the measurement used for this BMP.

REDUCTION OR MEASUREMENT: The benefits attributed to the implementation of this BMP is the reduction of yard debris that may migrate into the storm drainage conveyances and ultimately into the Waters of the State. The removal of this debris mitigates nuisance materials from plugging storm drains, or from having an adverse impact to aquatic life in streams and lakes. Implementing this BMP also enhances aesthetic values to the neighborhood and receiving waterways.

IMPLEMENTATION: Salt Lake City Storm Drainage will continue to implement this BMP. The Sanitation Division of the Salt Lake City Public Works is responsible for the coordination of this BMP, and provides the labor. The manpower and equipment used include three front-end loaders with operators, ten dump trucks with drivers, and laborers at each site.

YEAR	TONS OF MATERIAL REMOVED
2009	8,065
2010	8,670
2011	4,609*
2012	5,128*
2013	**4,596***

*Bulky waste only.

BMP 5: Remove leaves from gutters during the fall leaf season.

GOAL: To clean leaves out of the gutters and drainage intakes before they get into the storm drain system. This minimizes organic material that may otherwise convey into the Waters of the State.

DESCRIPTION: The Salt Lake City Storm Water Utility will continue to clean leaves from the gutters and drainage inlets during the fall leaf season. This BMP will be done in conjunction with the Public Services Division. Street sweepers and Vactor trucks are deployed in a coordinated effort during early September to clean leaves from the streets and storm drain intakes. BMP 3: Tan Can Program and BMP 4: Neighborhood Annual Cleanup Program work in conjunction with BMP 5. The combinations of these BMPs mitigate leaves and other debris that may migrate into the storm drains and waterways.

MEASUREMENT: The tons of leaves that are removed and taken to various locations for composting will be used for measuring the success of this BMP.

REDUCTION OR BENEFIT: The implementation of this BMP eliminates several tons of organic material from entering the drainage system, and Water of the State. Additional benefits of this BMP include clean intakes and gutters

IMPLEMENTATION: The Salt Lake City Storm Water Utility will continue to support this program. An annual cost of $300,000 will be appropriated by the Storm Water Utility to provide this BMP. The Drainage Manager, Sanitation Manager, and the appropriate personnel meet each year to coordinate their efforts. Street sweepers and Vactor truck efforts will be prioritized through a continual coordination effort.

YEAR	TONS OF MATERIAL REMOVED BY STREET SWEEPERS AND VACTORS
2009	1,978
2010	2,681
2011	3,032
2012	2,046
2013	**2,099**

BMP 6: Support the Salt Lake City Curbside recycling effort.

GOAL: To reduce or eliminate material that can be recycled from getting into curbs, storm drainage conveyances, and Waters of the State.

DESCRIPTION: Salt Lake City offers a convenient recycling program to the residents of Salt Lake City. Since the inception of this program, in 1994 the number of participants, and tons of material recycled has increased. The service is free to the residents and offered on a voluntary basis.

MEASUREMENT: The measurement of this BMP regarding storm water is the amount of material recycled and kept out of the storm drain system and the landfill. Approximately 900 tons of material per month is recycled in Salt Lake City.

REDUCTION OR BENEFIT: The benefit of implementing this BMP is the reuse of material that would otherwise take up valuable space at the landfill. The depletions of natural resources are less stressed when material is recycled. The reduction of several tons of material that may migrate to storm drain systems is reused.

IMPLEMENTATION: Salt Lake City will continue to implement the recycling program. The program is in its twentieth year, with approximately 40,033 households receiving the service. The coordinator for Salt Lake City is the Director of the Sustainability Department. In order to enhance the recycling effort, Salt Lake City also implemented a yard waste, "Leaf Bag" recycling program in 2008, and in 2010 changed the program to the "TAN CAN" eliminating the need for plastic leaf bags.

YEAR	TONS OF MATERIAL RECYCLED/MONTH	# OF SUBSCRIPTIONS
2009	849	38,393
2010	978	39,768
2011	900	41,811
2012	891	40,337
2013	**11,642**	**40,033***

*An additional 16,403 tons were diverted for composting

BMP 7: Support citizens clean up days of selected waterways.

GOAL: To improve the aesthetics of selected waterways by removing debris and to promote citizen awareness and responsibility regarding the waterway.

DESCRIPTION: Salt Lake City Departments of Public Utilities and Public Works combine labor, equipment, and supplies to assist the community in cleaning the waterway. The cleanups begin in April around Earth Day and continue throughout the spring and summer. The community and Salt Lake City Departments work together to improve and beautify the waterway using volunteers and community groups. Salt Lake now employs an volunteer coordinator that facilitates volunteer cleanup projects.

Because of the success of the program, the volume of debris hauled to the landfill has diminished over the years. However, volunteer efforts continue to work to remove debris from the waterways. The program has become more of a beautification effort rather than a removal effort. Two full time and two seasonal employees maintain the river and work on beautification projects.

MEASUREMENT: The change in the amount of debris removed from the waterway and hauled to the landfill is one measurement of the success of this BMP. The support of the community volunteers is an important aspect of this BMP. As the community becomes involved, awareness of preventing pollutants from entering the waterways should increase. Thus, fewer tons of debris should be in the river, which results in fewer tons of debris removed each year. This is an important measurement of the success of this BMP. Another measurement is the maintenance of trails, native trees and plants planted and other improvements.

REDUCTION OR BENEFIT: The benefit of this BMP is the reduction of garbage and debris destroying the beauty and water quality of the selected waterway. The community involvement in the clean up increases general awareness. The community benefit is a waterway that has better aesthetics, recreational use, and water quality.

IMPLEMENTATION: Salt Lake City will continue to implement this BMP. The Public Utilities Drainage Manager and the Parks Department make the coordination efforts. The estimated cost of this BMP for equipment, supplies, disposal fees etc., is approximately $25,000. The following summarizes the water way cleanups from 2013:

2013 Water Way Cleanup and Beautification Projects

Jordan River:

- Clean up and weed removal on the Jordan River Trail – 25 volunteers (50 hours)

City Creek

- Memory Grove – Leaf Rake - – 25 volunteers (50 hours)
- Memory Grove – Trash Clean up – 8 volunteers (16 hours)

Red Butte Creek

- Liberty Park – clean up pine cones etc. – 1- volunteers (30 hours)

Parleys Creek

- Hidden Hollow – Clean up, invasive plant removal – 10 volunteers (30 hours)
- Hidden Hollow Clean up – Youth City – Trash removal – 4 volunteers (12 Hours)
- Parleys Historic Nature Park – Dog waste and trash removal – 15 volunteers (45 hours)

Other Events

- Bend in the River – Earth Day cleanup – 450 volunteers (2000 hours)

BMP 8: Use the CITYWORKS work order system to track and schedule storm drain maintenance activities.

GOAL: To document and track system maintenance, with the computerized work order system. (CITYWORKS). This documentation will be used to keep track of maintenance activity on each structural feature of the Salt Lake City system and provide information for future maintenance activities.

DESCRIPTION: Salt Lake City implemented the CITYWORKS work order system in 1993 for tracking of the sanitary sewer, and storm water systems. The work order system allows each system feature such as pipes, manholes, and detention basins to have its own assigned unique record in the database. Work orders are generated for routine scheduled maintenance, needed repairs in the system, and emergencies. These work orders are assigned to maintenance personnel to make

repairs and/or replacements. The amount of time spent on the maintenance activity, materials used, and work performed is recorded on the work order and the information is input into the CITYWORKS database.

MEASUREMENT: The measurement for this BMP is the work performed on the storm drainage system. The number of work orders assigned and the repairs and/or replacements to portions of the drainage system to insure the systems are clean and function properly.

REDUCTION OR BENEFIT: The benefit attributed to the implementation of this BMP is the availability of a tracking system to access records regarding maintenance and repairs on the drainage system. These records provide information for scheduling of maintenance, repairs, and cleaning of the drainage system. The maintenance activities provide a drainage system that functions properly to mitigate the amount of pollutants entering Waters of the State.

IMPEMENTATION: Salt Lake City Public Utilities will continue implementation of this BMP. The Storm Drainage Manager is responsible for assigning work orders, making sure that proper notes are asserted on the work order by maintenance personnel, and making sure that work orders are provided to the work order office. The work order office is responsible to input the information into the CITYWORKS Work Order system for future use in maintaining the storm drainage system.

BMP 9: Conduct an annual training seminar for maintenance personnel on their role in maintaining storm water quality.

GOAL: To insure that storm drainage maintenance personnel are aware of their responsibility in maintaining storm water quality as work is performed.

DESCRIPTION: The Salt Lake City Storm Water Utility is responsible for maintaining the storm drainage conveyances and keeping them clean. As part of this responsibility maintenance crews are trained to understand and obtain knowledge of their role in maintaining storm water quality. Salt Lake City storm drainage maintenance personnel are trained regarding their role in maintaining storm water quality in the following areas. Construction activities, cleaning storm drain lines, boxes and inlets, identifying flows or discharges into the storm drain system and reporting them for investigations, and working on beautification projects and cleanup of selected waterways with citizens.

MEASUREMENT: The measurement for this BMP is the training provided for maintenance personnel. The quality of the training and topics discussed should focus on BMP that they can implement to maintain storm water quality while performing their job. Another aspect of the training should focus on illicit discharge identification.

REDUCTION OR BENEFIT: The benefit attributed to this BMP is providing support and training to the drainage maintenance crew in order for them to understand the significance of maintaining storm water quality. With a maintenance staff that has received training, maintenance of the system should be performed with storm water quality addressed to eliminate or mitigate poor judgment or accidents that may discharge pollutants into the storm drain system and Waters of the State. Illicit connections and/or discharges are reported for investigations and solutions. Thus, the benefit of this BMP is a reduction of pollutants to the Waters of the State.

IMPLEMENTATION: Salt Lake City will continue to implement this BMP. The Storm Drainage Manager and Storm Water Industrial Coordinator are responsible for this training. Several training sessions have been given over the years and will continue. The training sessions will continue to focus on BMPs and illicit discharge identification. The Storm Drainage Manager and Storm Water Industrial Coordinator will lead the efforts regarding training.

In 2013, general stormwater training was provided in safety and department meetings. In addition stormwater quality staff has been in close coordination with maintenance crews to help them understand their roles in stormwater quality.

BMP 10: Develop a disposal program for sediments from storm drain cleaning.

GOAL: To ensure proper disposal of sediments from storm drain cleaning in an efficient and environmentally sound manner.

DESCRIPTION: The Salt Lake City Storm Water Utility is responsible for sediment removal and proper sediment disposal. As sediment and debris is removed from the storm drain facilities during maintenance activities it is hauled to a bio-solids de-watering bed at the Water Reclamation Facility. The bio-solids de-watering bed has been reserved for storm drainage sediment and debris. The sediment and debris is stacked in windrows for de-watering to take place. The water from the sediment conveys through the sluice gates in the bed and is returned to the head-works of the plant for treatment. When the windrows of sediment and debris have

de-watered the debris is loaded into dump trucks and hauled to an approved landfill for disposal.

MEASUREMENT: The measurement for this BMP is the number of loads that are properly de-watered and hauled to the landfill for disposal. This disposal method is used to dispose of the sediment in an environmentally sound manner.

REDUCTION OR BENEFIT: The benefit attributed to the implementation of this BMP is the amount of sediment and debris removed from the storm drainage system that receives environmentally sound disposal. Cleaning the storm drainage system and removing sediment and debris mitigates this pollution from entering Waters of the State. The reduction of several tons of sediment from the storm drain system mitigates adverse consequences to aquatic life in streams and lakes. Reducing the litter and sediment load also enhances aesthetic values of the waters.

IMPLEMENTATION: Salt Lake City will continue to implement this BMP. In 2013, approximately 159 dump truck loads (12 cubic yard loads) of sediment and debris were taken to the bio-solids beds for de-watering. After the sediment and debris was de-watered it was taken to the landfill for disposal.

BMP 11: Continue requirements for on-site detention for developments.

GOAL: To improve water quality by engineering on-site storage facilities, which are designed to improve water quality and allow a more controlled runoff discharge through storm drain piping or groundwater recharge.

DESCRIPTION: Salt Lake City has had a drainage regulation requiring on-site detention for developments since 1978. Salt Lake City requires all commercial, industrial, and residential developments with impervious areas greater than 15,000 square feet to provide on-site detention facilities to limit the discharge to a pre development rate of 0.2 cubic feet second/acre during the 100-year storm. The uses of on-site detention promote storm water quality by reducing the post development run off velocities and sediment transportation.

MEASUREMENT: The measurement for this BMP is the number of drainage plans approved.

REDUCTION OR BENEFIT: The benefit attributed to the BMP of requiring on-site detention is the enhancement of water quality by settling out some of the pollutants that negatively affect the receiving waters. The mitigation of flooding is

another benefit of this BMP. Thus, the capacities of all design areas are to be sufficient to contain the estimated runoff volume from a 100-year, 24- hour storm event over those portions of the gross aggregate area under design.

IMPLEMENTATION: Salt Lake City will continue to implement this BMP. The Development Review and Inspection teams are responsible for reviewing and inspecting proposed construction development to insure it conforms to the City's Surface Water Runoff Policy, the City's Restrictive Discharge Policy, and good engineering practices. During 2013, seventy drainage plans were approved. 100 % of the plans approved met the drainage regulations developed by Salt Lake City.

BMP 12: Enforce the requirements of the Zoning Ordinance Chapter 21A.34.050 and 21A.34.130 for developments adjacent to waterways (Riparian Corridor Overlay).

GOAL: To provide protection, preservation, proper maintenance, and use of Salt Lake City's Water courses, lakes, ponds, floodplain, and wetland areas to include downstream drainage areas for present and future residents of Salt Lake City.

DESCRIPTION: The Riparian Corridor Overlay ordinance protects water-bodies that encompass the Riparian Corridor Overlay district such as streams, lakes, ponds, and wetlands, as identified on the zoning map, and also the Jordan River and the Surplus Canal. The ordinance has certain protection area standards such as setback requirements, permitted use, conditional uses, natural vegetation buffer strips, and landscape plan requirements the Riparian Corridor Overlay District (RCO) provides protection for all stream corridors and wetlands east of Interstate 215 Highway and includes City Creek, Red Butte Creek, Emigration Creek, The Jordan River and Parleys Creek and their tributaries.

MEASUREMENT: The measurement for this BMP is the approval of required plans, and enforcement of the ordinance. Soils reports identifying soil stability, drainage control plans, and site grading and excavation plans must be submitted and approved prior to any work being done.

REDUCTION OR BENEFIT: The benefit attributed to this BMP is in the stated purpose of the overlay zone to "improve water quality". "The water quality is improved by filtering and storing sediments and attached pollutants, nutrients, and compounds before they drain into streams or wetlands, and by maintaining the natural pollutant assimilating capabilities of the stream, floodplains and wetlands."

IMPLEMENTATION: Salt Lake City will continue implementing this BMP which has been in place since 1992. 21A.34.050 and the newly passed 21A.34.130 Riparian Corridor Overlay the Planning Section of Community and Economic Development is responsible for reviewing requests to build or use the overlay and or RCO district. Their review of plans and the criteria in Zoning Ordinance 21A.34.050 and 21A.34.130 are used in the process of request being approved or rejected. Ten plans were approved in 2013.

BMP 13: Prepare Standard BMPs for site development.

GOAL: To have a set of standard construction BMPs that are available to developers and engineering consultants that may be used to enhance storm water quality.

DESCRIPTION: The purpose of this BMP is to have a guidance document available to developers, engineering consultants, and contractors regarding storm water management during site development and construction activities. This document would provide BMPs and discuss the impacts of construction activities to storm water quality.

MEASUREMENT: The measurement of this BMP is the quality of the guidance document and the BMPs that are implemented during site development as a result of this document.

REDUCTION OF BENEFIT: The benefit of this guidance manual is to provide developers, engineering consultants, and contractors with information regarding BMPs that may be implemented at construction sites during site development. As these BMPs are implemented storm water pollution prevention techniques and practices are used to mitigate pollutants from conveying to storm drain systems and Waters of the State.

IMPLEMENTATION: The guidance document was developed in May of 1994. Salt Lake City has referred this guidance manual, "Storm Water during Construction Activities" to contractors in Salt Lake City. A manually has been periodically updated. The document is a "Guidance Document for Storm Water Management". Chapter Two is entitled, "BMPs for Construction Activities". The document is available http://www.pweng.slco.org/stormwater/html/guide.html Salt Lake City will continue to implement this BMP by referring the manual to contractors and developers. Salt Lake City will also coordinate with the Stormwater Coalition.

BMP 14: Develop annual review program for private drainage detention facilities.

GOAL: To ensure that control structures are in place and functioning properly on private drainage detention basins to protect water quality and meet 100-year, 24-hour storm event runoff requirements.

DESCRIPTION: Salt Lake City Public Utilities has a restrictive discharge policy for developments that meet the criteria found in Salt Lake City Storm Drainage Regulation No. SW-1, which in 2011 was incorporated into Salt Lake City's Building Design and Process Guide.

The restrictive discharge policy requires the on-site concentration or collection of all surface and storm water runoff within the project area, and restricts the eventual discharge of this runoff to a maximum allowable discharge rate of 0.20 cfs/acre of development. Private drainage detention basins for development are one of the designs used to meet the restrictive discharge policy. Salt Lake City Public Utilities Drainage Division is responsible for inspecting these private detention basins.

MEASUREMENT: The measurement for this BMP is the inspections on the private detention basins to insure control structures are in place and functioning properly.

REDUCTION OR BENEFIT: The benefit of this BMP is a drainage system that addresses the treatment of surface and storm water runoff, both wet-weather and dry weather discharges. The detention basins function is the temporary storage of storm runoff, which is used to control the peak discharge rates, and which provides gravity settling of pollutants. Orifice plates may be used to restrict the discharge of the runoff to the maximum allowable discharge rate of 0.20 cfs/acre. Large debris such as cups, sticks, cans, cardboard, etc generally do not pass through the orifice plate. They eventually drop to the bottom of the detention basin. The reduction of sediment and pollutants to Waters of the State is one of the purposes of this BMP. As a result of this BMP water quality and the aesthetics of the waterway is improved.

IMPLEMENTATION: Salt Lake City's Public Utilities GIS Specialist inspects private detention facilities. During this inspection, detention basins are inspected to make sure they are clean of debris and sediment, and functioning properly. Salt Lake City has approximately 1060 private drainage facilities that require inspection. Detention basins are scheduled to be inspected once every five years. During 2013

one hundred and fifty-four private drainage detention facilities were inspected and approved by Salt City Public Utilities.

BMP 15: Support the existing Salt Lake City Street Sweeping program.

GOAL: The goal of this BMP is to reduce the impact on receiving waters from pollutants and debris accumulating on the streets from residential, industrial, and commercial use.

DESCRIPTION: Salt Lake City Public Service Department operates a fleet of nine street sweepers. Sweeping industrial and commercial areas is scheduled on a monthly basis. Sweeping residential areas is scheduled on a six months rotation. A street-sweeper is attached to the street departments' asphalt grinding and chipping section to sweep the streets behind maintenance activities. Streets are also swept following the collection of debris placed by residents during the neighborhood cleanup program.

MEASUREMENT: The measurement of this BMP is the miles of street swept and debris removed from the streets.

REDUCTION OR BENEFIT: The benefit attributed to street sweeping on regular basis is to reduce floatable material, sediments and other attached pollutants from transporting into the storm sewer system and Waters of the State.

IMPLEMENTATION: Salt Lake City will continue to implement this BMP. Salt Lake Storm Water Utility pays one-half of the cost for street sweeping in Salt Lake City. The Public Service Division Manager tracks and schedules the street sweeping.

DATE	AMOUNT SPENT ON STREET SWEEPING	LANE MILES SWEPT
2009	$ 902,964	24,132 Miles
2010	$ 1,260,267	33,681 Miles
2011	$ 1,171,000	29,794 Miles
2012	$ 1,019,000	25,165 Miles
2013	**$ 953,000**	**22,844 Miles**

BMP 16: Review salt pile storm water management.

GOAL: To have an environmentally sound storm water management plan implemented around street deicing salt piles.

DESCRIPTION: Salt Lake City Public Service Department is responsible for implementing the BMP around street deicing salt piles. Five locations are used to store street deicing salt piles. These five locations include: Victory road, Bonneville, Guardsman way, Forrest Dale, and Delong Street. All five locations have no flow asphalt pads that slope to concrete holding sumps. The sumps are pumped out and the brine solution is used to pre-wet streets prior to a storm that has been forecasted. Barriers are placed on the perimeter of the site for secondary containment as an added protection.

MEASUREMENT: The measurement for this BMP is the prevention of the salt, and brine solution from leaving the containment area and migrating to storm drainage systems or leaching into the groundwater.

REDUCTION OR BENEFIT: The benefit attributed to this BMP is that through proper management of street deicing and salt piles the storm drain system, and groundwater will not be polluted by the salt piles. If these salt piles are not properly managed the runoff may enter the storm drains. Sodium Chloride the compound for salt is toxic to fresh water aquatic life and is very high in Total Dissolved Solids (TDS). Therefore, the benefit of properly managing salt piles is to reduce a saline solution discharge that is high in total dissolved solids, and is toxic to aquatic life from entering the Waters of the State.

IMPLEMENTATION: Salt Lake City Public Works will continue to implement this BMP of properly managing salt piles. The asphalt pads and barriers is one measure that has been implemented on all of the sites. The holding sumps at the Victory Road and Guardsman way location are another BMP that has been implemented. The sumps are pumped out and the brine solution is used to pre-wet streets prior to a storm that has been forecasted. In 2002, a cover was constructed at the Victory road site to cover the salt piles in the winter, and as a picnic area for residents during the summer.

BMP 17: Procedures for monitoring storm water management on Community and Economic Development (CED) Projects.

GOAL: The goal of this BMP is to meet Storm Water conditions by identifying and controlling problems with erosion, sedimentation, or other pollutants that may enter the drainage system on CED Projects.

DESCRIPTION: Salt Lake City has developed a program for Public Services Projects regarding monitoring of storm water. Any site greater than one acres is required to obtain a UPDES construction permit and implement a SWPPP. BMPs are implemented to control sediment and erosion control. Salt Lake City has a design team and inspection team to ensure that the storm water is properly managed and monitored to mitigate pollutants.

MEASUREMENT: The measurement for this BMP is the UPDES construction permits, SWPPPs, and erosion and sediment controls implemented on Public Service Projects.

REDUCTION OR BENEFIT: The benefit of having this BMP is to mitigate sediment transportation and attached pollutants from entering storm drain systems and waterways. When the construction is complete, BMPs for water quality such as on-site detention basins, and grass swales may exist, which may have long term impact on the site.

IMPLEMENTATION: Salt Lake City's Department of Public Services has a standard specification requiring contractors to submit a Notification of Intent to be covered under the State of Utah General Construction Storm Water Permit and Salt Lake City Stormwater Discharge Permit for projects that will disturb more than one acre. Utility Inspectors and the Industrial Storm Water Coordinator provide guidance and make sure that BMPs are in place on the projects.

BMP 18: Review proposed street projects for applicability of structural BMPs.

GOAL: The goal of this BMP is to review all street maintenance projects for applicability of installation of structural BMPs such as grass swales and detention basins to reduce pollutants.

DESCRIPTION: Salt Lake City has developed a process where a design team reviews all proposed street maintenance projects to determine if structural BMPs such as grass swales and detention basins should be installed. An inspection team inspects the project to make sure the structural BMPs are properly installed to specifications. The purpose of this BMP is to assess flood management projects on

street maintenance to assure that water quality to the receiving water bodies is addressed for additional pollutant removal.

MEASUREMENT: The measurement of this BMP is that 100% of all street maintenance projects are reviewed and inspected with structural BMPs installed. As these structural BMPs are installed, the key measurement is the reduction of pollutants transported into the rivers and streams.

REDUCTION OR BENEFIT: The benefit of structural BMPs such as grass swales or detention basins is the improvement of water quality to the receiving water bodies. These BMPs rely primarily on settling to remove pollutants. The filtration action of the grass and ex-filtration through the soil layer remove some of the pollutants that would otherwise reach the receiving water bodies.

IMPLEMENTATION: Salt Lake City Public Utilities will continue to implement this BMP with a design and inspection team to review all proposed street maintenance projects. In 2013, seven Community and Economic Development projects were reviewed.

BMP 19: Review all proposed storm water projects for water quality impacts.

GOAL: The goal of this BMP is to develop the best methodology for evaluating and improving water quality on all storm water capital projects.

DESCRIPTION: Salt Lake City has developed a procedure for evaluating water quality aspects of all storm water capital improvements. BMPs 17 and 18 work synergistically with BMP 19 to meet this goal. Any site greater than one a acre is required to obtain a UPDES construction activities permit through Salt Lake City Public Utilities and the State of Utah. All sites are required to implement a SWPPP. A list of applicable structural BMPs that will improve water quality is part of the design process.

MEASUREMENT: The measurement of this BMP is the number of storm water projects reviewed and the impact the capital improvements have on improving water quality discharging to the receiving water bodies.

REDUCTION OR BENEFIT: The benefit of this BMP is the design of structural BMPs to improve water quality. As capital improvements occur structural BMPs will be installed which should conversely relate to water quality improvements as control

devices are used to provide additional pollutant removal. Thus, the impact of pollutants on the receiving water bodies will be mitigated.

IMPLEMENTATION: Salt Lake City will continue the implementation of this BMP. The design and review team ensures that all projects are reviewed for water quality impacts. UPDES construction permits are obtained and SWPPPs are implemented to make sure that pollutants do not enter receiving waters. The design and review team ensures that the proper structural BMPs are used to enhance water quality. During 2013 eight storm water projects were reviewed by Salt Lake City Public utilities Engineers. These projects include water quality components to four creek outfalls, constructing a parking lot bio-retention basin, and beginning construction on a stormwater treatment facility project in 2013.

BMP 20: Review detention basins for feasibility of retrofitting for water quality enhancements.

GOAL: To review and develop a plan regarding the feasibility of retrofitting existing detention basins for water quality enhancements.

DESCRIPTION: The purpose of this BMP is to review the existing structural controls in the flood basin to determine if structural components are feasible for enhancing storm water quality. This review will be conducted during a complete basin master planning effort to be conducted by the Salt Lake City Storm Water Utility.

MEASUREMENT: The measurement for this BMP is the review process of existing structural controls and implementation of retrofits to the structures to enhance storm water quality.

REDUCTION AND BENEFIT: The benefit of this BMP is the retrofitting of existing structural controls that are feasible to enhance storm water quality. As water quality enhancements are made to these structures sediments and pollutants are removed. The improved water quality is beneficial to the receiving Waters of the State.

IMPLEMENTATION: During the Salt Lake City Public Utilities master planning and capital improvements planning, the existing detention basins are reviewed for possible modifications. The review process determines the feasibility of modifications that may be used on existing detention basins to improve water quality. In 2013, one project was started to improve water quality enhancements.

This is a water quality wetland treatment facility at the existing 900 South outlet to the Jordan River.

BMP 21: Develop an education program on the proper use of pesticides and fertilizers.

GOAL: To have an education program available to educate residents, commercial applicators, and municipal agencies regarding the proper use of pesticides, fertilizers, and herbicides.

DESCRIPTION: The purpose of this BMP is to have an education program available regarding the proper use of pesticides, fertilizers, and herbicides. This program is to reach residents, industries, and municipal agencies. The Salt Lake City Public Utilities and Salt Lake County Storm Water Coalition have programs available to provide this type of public information. Additionally, a Salt Lake City-County Health Department Facility located at 6030 West 1300 South, provides information regarding use of the pesticides, fertilizers, and herbicides. This County facility will accept pesticides, fertilizers, and herbicides from residents, and small businesses that have left over products. These excess products are available to the general public at no cost for their use. Various publications have been used to educate the general public regarding the use of pesticides, fertilizers, and herbicides. These publications are circulated in newspaper inserts, pamphlets, and fliers.

MEASUREMENT: The measurement for this BMP is the education provided to the various groups applying pesticides, fertilizers, and herbicides. As these groups become educated, products are properly used and the pollutants from over application are mitigated.

REDUCTION OR BENEFIT: The benefit of this BMP is an educated public that recognizes the significance of proper use of pesticides, fertilizers, and herbicides. The benefit attributed to this education effort is the reduction of pollutants to Waters of the State as a result of over application of these products.

IMPLEMENTATION: This BMP will continue to be implemented with various publications produced to educate the public regarding the proper use of pesticides, fertilizers, and herbicides. In addition, information is circulated at the Household Hazardous Waste Days held at various locations across the Salt Lake Valley. Salt Lake County accepts pesticides, fertilizers, and herbicides that are not used. The Salt Lake City-County Landfill Facility is also available to accept product for reuse of the pesticides, fertilizers, and herbicides.

BMP 22: Develop SWMP program similar to pretreatment program.

GOAL: To develop a program similar to the wastewater pretreatment program that is proactive in working with the businesses in Salt Lake City. The goal is to provide the businesses with information and assistance to help them stay in compliance with storm water objectives.

DESCRIPTION: The Salt Lake City Drainage Utility has developed a program to assist businesses in obtaining their UPDES industrial storm water permits, developing and implementing SWPPPs and staying in compliance with storm water regulations.

Monitoring of various outfalls is part of the program to determine any illicit connections or illegal discharges to the (MS4). When a pollutant is found during a screening process, the system is traced back to the source or business when possible.

MEASUREMENT: The measurement for this BMP is the percent of industries with permits, and the percent of SWPPPs that are implemented. The ability to get businesses to comply and meet storm water standards is very important for the long-term success of the program. The number of inspections, enforcement of illegal discharges, and disconnection of illegal connections is another measurement beneficial to the storm water and pretreatment programs.

REDUCTION OR BENEFIT: The benefit of this program is working with the industries in Salt Lake City in a positive manner to find solutions and BMPs that will mitigate or eliminate pollutants. This approach will work for both short and long term solutions to improve the quality of water entering receiving waters. The pretreatment program in Salt Lake City has been very successful in working with industries. Businesses are assisted in meeting their discharge standards to the POTW. The reduction of pollutants leaving industry and entering the MS4 is a primary goal of the program.

IMPLEMENTATION: Salt Lake City has established a stormwater program that is similar to the pretreatment program and works closely with the pretreatment group to monitor industrial facilities. In addition to the industrial program, the stormwater program implements six minimum control measures not in the pretreatment program.

BMP 23: Maintain industrial user NAICS and SIC code database.

GOAL: To have an updated listing of local industries having a Standard Industrial Classification Code, (SIC) requiring them to acquire State Industrial UPDES and Salt Lake City storm water permits and a SWPPP implemented.

DESCRIPTION: Salt Lake City Public Utilities will maintain an updated industrial user SIC code database. The data base will be used to identify industries in Salt Lake City that are required to have State and City Industrial UPDES storm water permits and SWPPPs that are implemented. The updated list will identify any new or existing industries that are required to meet storm water regulations and be inspected on a regular basis.

MEASUREMENT: The measurement of this BMP is the percent of total required industries on the database that obtain permits and meet storm water regulations as a result of contacts made from the use of this data base.

REDUCTION OR BENEFIT: The benefit of having an updated SIC database of industrial users will be to identify and contact new or unregulated industries in Salt Lake City and work with them regarding their compliance with storm water regulations. The end result will be better educated industries regarding storm water and fewer contaminants leaving their facilities to the MS4s storm drain system and eventually to the receiving water bodies.

IMPLEMENTATION: Salt Lake City will continue implementing this BMP in order to have a list of those businesses required to meet storm water regulations. The guidelines given in the State General Permit for Storm Water Discharges Associated with Industrial Activity, on page three, number 28a, 28b, 28c, 28d, 28e, 28f, 28g, 28h, 28i, 19j, and 28k are used to determine which industries are included in the database. The Salt Lake City Business Licensing data will be reviewed regularly for new businesses to add to the stormwater industrial database.

BMP 24: Coordinate with POTW pretreatment program.

GOAL: To work in parallel with the POTW's pretreatment program working in partnership with the industrial and business community to provide consistent guidance and direction.

DESCRIPTION: Salt Lake City Public Utilities storm water and pretreatment sanitary sewer personnel work in a team effort to partnership with the business community

to identify and remove illicit connections to the storm drain system. Both programs inspect facilities and respond to trouble calls. During inspections if any illicit connections or discharges are noticed a coordinated effort between the two programs is used to remove any illicit connection, or to resolve any illegal discharges.

MEASUREMENT: The measurement for this BMP is the dissemination of information and consistent guidance given to the regulated business community. The number of illicit connections or illegal discharges found and resolved is another important measurement.

REDUCTION OR BENEFIT: The benefit of this BMP is the coordination of program efforts, and providing consistent direction and guidance to the regulated business community. Storm water discharging to the sanitary sewer adds to the hydraulics of the plant and may hydraulically overload the plant. This decreases the efficiency of the plant and water that should not need treatment. Sewer connected to the storm drain system is a pollution and health hazard. Removing any illegal connections or resolving illicit discharges are beneficial to both systems.

IMPLEMENTATION: Salt Lake City Public Utilities will continue to implement this BMP. The pretreatment program has four full-time and one part time position that inspect, and monitor waste streams discharged to the sewer from industries. The storm water program has one full time position to inspect industries regarding storm drain compliance. Coordination and cooperation between the two divisions assists both programs. Salt Lake City stormwater program works closely with the pretreatment group to monitor industrial facilities and discharges to the storm and sanitary sewer systems. In 2013, stormwater and pretreatment personnel worked together on one illicit discharge and one potential discharge investigation.

BMP 25: Maintain records and database of all illicit connection investigations.

GOAL: The goal of this BMP is to have records and a database of all illicit connections, their enforcement, and resolution for future reference.

DESCRIPTION: Salt Lake City's Industrial Storm Water Coordinator maintains files and records of all illicit discharges or connections. Individual files are maintained on each business investigated. These files contain any correspondence, enforcement, and the resolution concerns.

MEASUREMENT: The measurement of this BMP is the number of illicit connection investigations and their resolutions. In 2013, forty-three reports regarding illicit discharges or connections were investigated. The significant increase in discharges reported can be attributed to increased enforcement, education, public involvement and responsibility.

REDUCTION OR BENEFIT: The benefit of this BMP is an active record of illicit connection inspections, enforcement, and the means of resolving the problem. As illicit connections are removed from the storm drain system the receiving waters have less pollution.

IMPLEMENTATION: Salt Lake City will continue the implementation of this BMP by maintaining an updated database and filing system. The Storm Water Program Manager is responsible for these records and for keeping an updated database of the location, response and enforcement on illicit connections. In 2013, the Strom Water Program implemented a GIS database to track illicit connections.

BMP 26: Review all new development plans for compliance and illicit connections.

GOAL: The goal of this BMP is to insure that all new commercial and industrial development plans are in compliance and that illicit connections to the storm drain are not constructed.

DESCRIPTION: Salt Lake City Public Utilities has a design and review team that reviews all development plans to insure that illicit connections to the storm drains are not constructed. The design and review team makes sure that the storm drain system is properly connected to the storm drain and not to the sanitary sewer. Additionally, they insure that all laterals that should tie into the sanitary sewer are properly connected. The final review is from the inspection team that actually works with contractors and developers to make sure that the laterals are physically connected to the proper system.

MEASUREMENT: The measurement for this BMP is the number of plans reviewed.

REDUCTION OR BENEFIT: The benefit of this BMP is an assurance that new connections are properly made. This eliminates illicit discharges to the storm drain system that would be untreated and pollute the receiving bodies of water. Additionally, it provides consistent guidance to the business community.

IMPLEMENTATION: Salt Lake City will continue implementing this BMP by utilizing the design and review team as well as on site inspections to make sure all new developments are properly connected. During 2013 Salt Lake City reviewed 839 development plans for compliance and illicit connections.

BMP 27: Promote City County Health Department Hazardous Waste Collection Days.

GOAL: To provide the residents of Salt Lake City with a collection day where, they can properly dispose of household hazardous waste.

DESCRIPTION: Salt Lake City Public Utilities has promoted this BMP by providing information to the general public. Fliers have been inserted in Salt Lake City customer water bills, inserts in the Deseret Newspaper and Tribune Newspaper have been used to promote the collection of household hazardous waste. Salt Lake City-County Health Department opened a permanent facility in 1995 located at 6030 West 1300 South. The facilities hours of operation 9 a.m. to 3 p.m. was included, and a phone number for additional information. Household hazardous wastes are accepted, with the program encouraging reusing the products when possible. For example, paint is used by the graffiti removal program and is available free to the public. Recently E-Waste has been added to the program residents can drop off old electronics at the above mentioned address free of charge.

MEASUREMENT: The measurement for this BMP is the fliers, inserts, and additional information provided by Salt Lake City to promote the Electronic and Household Hazardous Waste Collection at Salt Lake City-County Health Departments permanent facility.

REDUCTION OR BENEFIT: The benefit of this program and BMP is providing a convenient way to properly dispose of broken or unused Electronics, computers, monitors and other household hazardous waste. As the program has developed new ideas such as the reuse program are being implemented. Pollutants that may have been causing potential damage to surface and ground water are eliminated.

IMPLEMENTATION: Salt Lake City Public Utilities has implemented this BMP by hosting Household Hazardous Waste Collection Days in conjunction with Salt Lake Valley Health Department (SLVHD). The amount collected in 2013 was not available at the time of this report.

In addition to the hazardous waste collection Salt Lake City has implemented a program to dispose of unwanted or unused pharmaceutical drugs. Drop boxes are located at the Pioneer Police Office and the Public Safety Complex. Over the counter drugs are also accepted. In 2013, Salt Lake City collected more than 1,721 pounds of pharmaceutical drugs which were disposed of and incinerated. The result of this program has a positive impact on water quality and the community by keeping the unused drugs out of the hands of our youth and substance abusers by destroying the drugs by means of incineration.

BMP 28: Develop a program for investigating illicit flows and connections.

GOAL: To conduct on-going field screening in the MS4 to resolve any illicit connections or flows:

DESCRIPTION: Salt Lake City Storm Water Utility has a program for investigating illicit flows or connections. Wet Weather Screening and Dry Weather Screening Programs screen the MS4. The intent of these two programs is to screen suspected major storm sewer sheds for the presence of excessive pollutants in discharges from the MS4. Salt Lake City maintains a series of storm drain maps for the entire City system. Any suspected illicit flows would be investigated upstream until resolved.

The Wet Weather Screening will include the following field measurements: Temperature, Total Dissolved Solids, pH, and Dissolved Oxygen. A field analysis of Total Chlorine Residual will also be done. The laboratory analysis will include: Biochemical Oxygen Demand, Chemical Oxygen Demand, Total Suspended Solids, Total Dissolved Solids, Total Nitrogen, Total Kjeldahl Nitrogen, Total Phosphorous, Dissolved Phosphorous, (Total and Dissolved Cadmium, Copper, Lead, Zinc, Arsenic, Chromium, Cyanide, Nickel, Selenium, Silver) and a pH Oil & Grease.

The Dry Weather Screening will include the following field measurements: Temperature, Total Dissolved Solids, and pH. A field analysis of Total Chlorine Residual, Copper, Phenols, and Detergents will be performed. Field observations of flow rate, odors, color, clarity, floatables, deposits/stains, biological growth, vegetation, and structural conditions will also be noted.

MEASUREMENT: The measurement for this BMP is the data collected from the area screened during the life of the permit and the illicit flows removed from the MS4.

BENEFIT OR REDUCTION: The benefit of this BMP is the screening of the system and removal of illicit flows that discharge to the Waters of the State.

IMPLEMENTATION: Salt Lake City will continue implementing this BMP with Dry and Wet Weather Screening of the MS4. During 2013 five sites were dry weather monitored. The Permit requires the entire system to be screened during the life of the Permit. In addition the stormwater group responds to all reports of illicit discharges or connections. A database and GIS management system is used to track all reported illicit discharges and illegal connections.

BMP 29: Prepare Memorandum of Understanding (MOU) with Salt Lake City Public Utilities and Salt Lake Valley Health Department.

GOAL: To have a MOU between Salt Lake City Public Utilities and the Salt Lake Valley Health department regarding enforcement of state health laws, rules, regulations, and standards applying to the municipal separate storm sewer system.

DESCRIPTION: Salt Lake City Public Utilities and Salt Lake Valley Health Department will be required to enforce State and local storm sewer standards, ordinances, and regulations. Salt Lake City has enacted a storm water sewer system ordinance that states the following: The only substances dischargeable under the ordinance into the city's storm sewer are listed in the General Permit, Permit # UTS000002 issued to Salt Lake City from the State of Utah. All other such waters must be discharged into the City's sanitary sewer system. The Health Department also has statutory authority to control possible sources of pollution into the City's municipal storm sewer by storm water discharges associated with industrial activity and the quality of storm water discharge from sites of industrial activity. City Ordinance, Health Regulations and the Utah Water Quality Act are ordinances and regulations that are used to promote public health and environmental health quality. Salt Lake City and the Health Department met and prepared a MOU in October 1993. The MOU discusses the procedures and methods that will be used to handle illicit connections, and illegal discharges.

MEASUREMENT: The measurement for this BMP is the number of illicit discharges and illegal connections that are resolved as a result of this MOU between the two agencies.

REDUCTION OR BENEFIT: The benefit attributed to this BMP is an understanding of the procedures, and methods used to deal with illicit connections and discharges

between Salt Lake City and the Health Department. With this understanding the agencies are able to work together in a cooperative effort in making sure the illicit connections and discharges are properly handled and enforced. As illicit connections and discharges are removed from the storm drainage system fewer pollutants are discharged to the Waters of the State.

IMPLEMENTATION: Salt Lake City Public Utilities and the Health Department met in September of 1997, to discuss the MOU and develop ways to continue working together on illicit connections and discharges. Salt Lake City Public Utilities will continue implementing this BMP by working with the Health Department regarding illicit connections and discharges to the municipal separate storm sewer system. The final report from the Salt Lake County Health Department was not available at the time of this report

BMP 30: Maintain staff to respond to reports of illicit discharges.

GOAL: To have a staff available to respond to any illicit discharges and resolve the problem with clean up, and/or cease and desist order by the Salt Lake Valley Health Department or State of Utah, Division of Water Quality.

DESCRIPTION: Salt Lake City Storm water utility has one full-time, and one part time position on staff to respond to any reports of illicit discharges and spills. The personnel are trained to respond, identify the pollutant, and investigate the source of the discharge and use regulatory authority to enforce actions against violators so that the illicit discharge activity is corrected.

MEASUREMENT: The measurement for this BMP is the number of illicit discharges that have required response and correction.

REDUCTION OR BENEFIT: The benefit of implementing this BMP is having a resource available to respond to and correct illicit discharge activity, and finding a resolution to the problem. As illicit discharges are removed from the storm drain system the receiving water bodies become less polluted.

IMPLEMENTATION: This BMP has been implemented since September 1993, when a position for the Industrial Storm Water Coordinator was filled, and another full time position for the Stormwater Program Manager was filled in 2010. In 2014, an additional staff member will be added to assist in the response to reports of illicit discharges. In cases where an enforcement action is required against the

responsible party, the Salt Lake Valley Health Department or State of Utah, Division of Water Quality may also participate in the action.

BMP 31: Promote interagency cooperation concerning illicit discharge investigation.

GOAL: To work together in a cooperative effort with other Regulatory agencies to resolve illicit and or illegal discharges.

DESCRIPTION: A cooperative effort between the agencies for a thorough investigation, assessment, and gathering of evidence relating to illicit and illegal discharges has been promoted by Salt Lake City Public Utilities. Salt Lake City notifies the Salt Lake Valley Health Department and State of Utah, Division of Water Quality regarding illicit flows requiring their assistance. Salt Lake City Storm water Utility works with the other agencies by providing maps, tracing the system to the illicit discharge and any other means required for investigating and resolving the illicit flow.

MEASUREMENT: The measurement for this BMP is the number of illicit flows investigated and corrected.

REDUCTION OR BENEFIT: The benefit of implementing this BMP is the interagency cooperation regarding the investigation, and gathering of evidence to resolve illicit and illegal discharges. As these illicit discharges are removed from the storm drain system the receiving water bodies become less polluted.

IMPLEMENTATION: Salt Lake City Public Utilities will continue implementing this BMP by working with other agencies tracing and eliminating illicit discharges. Salt Lake City has worked with the Salt Lake Valley Health Department, State of Utah Division of Water Quality, and the United States Environmental Protection Agency on past illicit discharge investigations. Salt Lake City also works internally with Fire, Police and HAZMAT crews to investigate illicit discharges.

BMP 32: Pursue prosecutions and court ordered solutions to significant contamination problems.

GOAL: To resolve significant contamination problems that may require court orders and prosecutions.

DESCRIPTION: Salt Lake City Storm Drainage has the responsibility of eliminating significant contamination problems discharging to the MS4. In some incidents the contamination problem may be significant enough that it requires court orders and/or prosecutions.

MEASUREMENT: The measurement used for this BMP is the number of prosecutions and court ordered solutions that resolve significant contamination problems. Salt Lake City has had one case where we worked with the Salt Lake Valley Health Department regarding a court ordered solution.

REDUCTION OR BENEFIT: The benefit of implementing this BMP is in eliminating serious illicit discharges entering the storm drain system. The court ordered solutions are intended to get the violator to comply with the storm water regulations. The reduction of significant contamination problems from the receiving water bodies has a major impact on the improvement of water quality.

IMPLEMENTATION: Salt Lake City Public Utilities will continue implementing this BMP through field investigation such as Dry and Wet Weather Screening, responding to reports of illicit discharges and, interagency cooperation regarding illicit and illegal discharges. Salt Lake City's Industrial Storm Water Coordinator involves the proper regulatory agency regarding any findings with significant contamination problems. The State of Utah, Division of Water Quality, and the Salt Lake County Health Department will continue to be made aware of significant contamination problems found in Salt Lake City.

BMP 33: Investigate Dry Weather flows.

GOAL: To Dry Weather Screen the MS4 flows to systematically investigate and remove illicit flows.

DESCRIPTION: Salt Lake City's Storm Water Inspectors will investigate sources of observed dry weather flows. Inspectors will rely mainly on visual observation and use of colorimetric field test kits. This measure will require personnel to trace an observed discharge through the storm drain system.

MEASUREMENT: The measurement used for this BMP is the portion of the MS4 monitored, and the illicit discharges removed.

REDUCTION OR BENEFIT: The benefit of this BMP is the elimination of illegal

connections and discharges to the storm drain system. As the illicit discharges are removed from the storm drain system the receiving water bodies become less polluted.

IMPLEMENTATION: Salt Lake City will continue implementing this BMP by investigating dry weather flows. The I-15 corridor is where the initial efforts have been made and the program has branched out to other areas of the MS4. Dry Weather monitoring will include the following field measurements: Temperature, Turbidity, and pH. A field analysis of Total Chlorine Residual, Copper, Phenols, and Detergents will be performed. Field observations of flow rate, odors, color, clarity, floatables, deposits/stains, biological growth, vegetation, and structural conditions will also be noted. In 2013, five dry weather sites were monitored. In conjunction with the dry weather monitoring program, Salt Lake City Storm Drain crews systematically clean the drainage system throughout the year. Storm Drain crews inspected 622,047 feet of storm drain pipe, gutter and ditches. The crews are trained to observe and report any unusual or suspected illicit flows or discharges to the Storm Water Coordinator.

BMP 34: Develop a formal storm drain spill response plan.

GOAL: To have a storm drain spill response plan that is consistently used when a spill occurs.

DESCRIPTION: Salt Lake City Public Utilities has developed a storm drain spill response plan that is a Memorandum of Understanding with the Incident Response Team and the Salt Lake City Fire Department concerning the initial response to containment and cleanup of spilled materials. The departments involved in the spill response plan perform their role and work with the other teams to make sure that a safe, consistent, and efficient containment and cleanup occurs. The Fire Department takes the commanding role and determines what level of spill has occurred. Once a determination has been made Incident Response and Public Utilities assist in the spill response. This may include containment, and clean up decisions regarding proper disposal and safety issues.

MEASUREMENT: The measurement for this BMP is the number of storm drain spill responses.

REDUCTION OR BENEFIT: The benefit of this BMP is a consistent and, safe spill response plan. The spill response plan provides the best possible approach to

cleaning spills and eliminating or mitigating pollutants from entering the storm drain system. Thus, the reduction is keeping materials from spills contained and out of receiving water bodies.

IMPLEMENTATION: Salt Lake City Public Utilities will continue implementing this BMP to formalize the spill response process. Salt Lake City Public Utilities has worked with Incident Response and the Fire Department on several spills that have occurred. Public Utilities has provided maps of the storm drainage system, installed booms and helped with the cleanup. The Salt Lake Valley Health Department is also involved in the process to make sure cleanup meets their requirements and to issue Notice of Violations when appropriate. The reporting, investigation and response is maintained in a database and the city GIS system. Salt Lake City responded to 14 storm drain spills in 2013.

BMP 35: Develop a list of certified contractors and suppliers for spill response.

GOAL: To have a resource with supplies available to respond to spills.

DESCRIPTION: Salt Lake City has a trained Hazmat Response team capable of handling most of the spills in Salt Lake City. The Hazmat Response team is equipped with protective clothing, booms, pads, pumps, and drums to contain and cleanup spills. Hazmat Response has a list of certified contractors used for major spills and spills beyond their scope. The contractors include: JBR Environmental, TW Environmental, EnviroTech, and Becks Sanitation. The suppliers used include: Universal Products, Industrial Supply, and GeoDynamics. Businesses and industries responsible for the spill may use their own certified contractor to contain and clean up the spill.

MEASUREMENT: The measurement for this BMP is the generated list of certified contractors.

REDUCTION OR BENEFIT: The benefit of this BMP is the resources available to handle spills as they occur. Thus, pollutants are eliminated or mitigated from getting into the storm drain system.

IMPLEMENTATION: Salt Lake City will continue implementing this BMP of using Hazmat Response team. The other certified contractors are used upon request or as needed according to the circumstances of the spill.

BMP 36: Provide OSHA HAZWOPR training to selected personnel.

GOAL: To have personnel trained to respond to spills correctly and safely.

DESCRIPTION: OSHA required Hazardous Materials Operations is training given by a certified Salt Lake City Fire Department instructor. The class focuses on proper techniques for dealing with spills. This includes: safety, level of protective clothing required, chemical identification, proper containment, decontamination procedures, and proper disposal measures. The training for drainage personnel qualifies them to assist the HAZMAT team. HAZMAT is in charge of these types of spills. The drainage crew involvement might include assistance in determining where the fugitive spill conveys through the drainage system and locations that may require evacuation and other measures.

MEASUREMENT: The measurement for this BMP is the number of personnel trained to respond to spills.

REDUCTION OR BENEFIT: The benefit of this BMP is the availability of trained personnel to work with HAZMAT on hazardous spills. The result is a better cleanup effort, which mitigates pollutants entering the storm drain system.

IMPLEMENTATION: Salt Lake City Public Utilities has implemented this BMP by providing 8-Hour HAZWOPR training to Salt Lake City Public Utility Employees. In 2013, thirty Salt Lake City Drainage personnel received HAZWOPR training.

BMP 37: Develop a program to promote public reporting of illicit discharges.

GOAL: To have a program developed that promotes the interest of pollution prevention to the public, and provides information regarding illicit flows and reporting procedures.

DESCRIPTION: The purpose of this BMP is to provide information to the public regarding recognition of illicit flows, and reporting procedures when an illicit discharge has occurred. With this information available the public can take an active role in preventing illicit discharges that pollute their local rivers and streams. Salt Lake City uses a flyer that is inserted into the Storm Water Utility bills to provide information to the public regarding recycling, ways to dispose of hazardous waste, and other pollution prevention tips, with numbers to call regarding questions or information. In addition, the Salt Lake County Storm Water Coalition

additional information regarding storm water and pollution prevention with several phone numbers including the Salt Lake City Public Utilities and Salt Lake County Health Department 24-hour dispatch phone numbers.

MEASUREMENT: The measurement for this BMP is the number of illicit flows reported and resolved.

REDUCTION OR BENEFIT: The benefit of implementing this Best Management is a program that provides an opportunity for public involvement in removing illicit flows to their waterways. With an educated public and a program available to report illicit flows more illicit discharges will be investigated and resolved. As these illicit discharges are removed from the storm drain system the receiving waters become less polluted.

IMPLEMENTATION: Salt Lake City will continue implementing this BMP by providing information to the public regarding recognition and reporting procedures of illicit discharges. The quarterly bill stuffers and newspaper inserts will be used to provide pollution prevention information and numbers to call for problems in the community. Since 1998 The Storm Water Coalition has a budgeted for public information and education. The tasks involved included radio and TV advertising, a public perception poll, the newspaper insert, a web page, and business partnerships as a means for education and information. In 2012 the Stormwater Program developed a door hanger for response to stormwater pollution and a flier to be distributed in residential utility billing. In 2013, forty-three illicit discharge incidents were reported and investigated.

BMP 38: Develop an education program for industrial users on oil and toxic materials disposal.

GOAL: To have an education program that is targeted to industry and business audiences encouraging proper disposal of oil and toxic materials.

DESCRIPTION: The purpose of this BMP is to provide education to industries and businesses that encourages the proper disposal of oil and toxic materials. The Department of Public Utilities has an industrial storm water and wastewater program that provides information to industries. The storm water and wastewater programs are resources that industry can use to obtain information regarding proper disposal methods and for educational materials. Both programs make inspections of regulated facilities for compliance of clean water regulations.

Additionally, the Salt Lake County Storm Water Coalition has a program that provides public education and information.

MEASUREMENT: The measurement for this BMP is the number of industries and businesses that are educated and properly disposing oil and toxic materials.

REDUCTION OR BENEFIT: The benefit of implementing this BMP is to provide information and education to industry regarding proper disposal of oil and toxic material. As the industries are educated they become more environmentally aware and generally are encouraged to properly dispose of oil and toxic materials. Proper disposal reduces the amount of pollutants that may otherwise pollute the storm drain system, and Waters of the State.

IMPLEMENTATION: Salt Lake City will continue implementation of this BMP through distributing education material to industries and businesses. Inspections will also be conducted at industries that are regulated by the storm water, and wastewater programs. Salt Lake City supports the Salt Lake County Storm Water Coalition program which provides public information and education. The Salt Lake Valley Health Department provided waste management training for the Dry Cleaning Industry and Construction and Demolition Contractors and Consultants. Salt Lake City distributed several brochures to automotive related industries a BMP guide related to the industry for sanitary sewer discharges and storm water pollution control. Salt Lake City will continue to support these programs to help educate proper disposal of oil and toxic materials.

BMP 39: Develop an education program for residential users on oil and toxic materials disposal.

GOAL: To have an education program aimed at residential audiences to promote the proper disposal of oil and household toxic materials.

DESCRIPTION: The purpose of this BMP is to provide education to residential users to promote the proper disposal of oil and household toxic material. The Department of Public Utilities for Salt Lake City provides brochures additional information as stuffers in the Storm Water Utility bills (approximately 48,000 accounts). These bill stuffers promote the Household Hazardous Waste facility located at the landfill. They are used to announce the Hazardous Waste drop off days held at Salt Lake City Public Utilities. They provide information regarding what qualifies as a hazardous waste, proper disposal methods, and locations. Radio and

Television education provided by the Salt Lake County Storm Water Coalition is another educational tool that has been used to educate residential audiences regarding proper disposal.

MEASUREMENT: The measurement for this BMP is the number of residents that are educated and properly disposing of material at the Household Hazardous Waste Facility.

IMPLEMENTATION: Salt Lake City will continue implementation of this BMP by providing information to residents regarding the proper disposal of oil and household toxic materials. Public Utilities has an educational display in the foyer that provides information on storm water quality. The display is portable and is used at public meetings and events. In 2013, quarterly bill stuffers with disposal information, and numbers to call in the community were provided. The Salt Lake County Storm Water Coalition sponsors radio and television advertising. Salt Lake City will continue to support these programs to help educate the public of proper disposal of oil and toxic materials. Salt Lake City Public Utilities will continue to support "Household Hazardous Waste Community Collection Events". Drop off days begin in June and go through September. Salt Lake City will continue to provide the residents with a schedule of hazardous waste collection locations and times. The Salt Lake Health Department will transport the waste to the permanent facility at the landfill. Two of the collections locations include "e" waste collections.

BMP 40: Formalize reporting and investigating infiltration of sanitary sewage to storm drain.

GOAL: To eliminate infiltration from the sanitary sewer into the storm drain system.

DESCRIPTION: The purpose of this BMP is to investigate the sanitary sewage collection system lines to address any exfiltration that may migrate to the storm drain system, and infiltrate sanitary sewage. The Sanitary Sewer Utility and Storm Water Utility for Salt Lake City are managed by the Department of Public Utilities. The manager over the two Utilities is responsible for coordinating the investigation, reporting, and the remedy for any exfiltration or infiltration problems that occur in the storm drain or sanitary sewer system. The methodology used includes the use of a camera to televise the sanitary sewer collection lines. The structural condition of the lines is checked to make sure a problem, or a future potential problem does not exist. Obstructions, in the line are part of the notations made by the camera

operator. The operators videotape any areas of concern and the video is viewed by the Sanitary Sewer/Storm Water Utility Manager and if necessary a Public Utilities Engineer. They will determine what action is needed to resolve any exfiltration or infiltration problems. The storm drain conveyances and detention basins are inspected annually as part of BMPs. If any problems are observed the camera may be used in the storm drain system as a means of analysis, and to develop a solution.

MEASUREMENT: The measurement for this BMP is the number or problems resolved regarding infiltration of sanitary sewage to the storm drain system. The aggregate portion of the collection system investigated is another measurement.

REDUCTION OR BENEFIT: The benefit of implementing this BMP is to have a storm drain system that is not receiving infiltration of sanitary sewage. The sanitary sewer collection system also benefits from investigating the lines to resolve any problems. The benefit of maintaining two separate systems reduces pollutants as they discharge to receiving waters. By eliminating infiltration of sanitary sewage into the storm drain system the pollutants remain in the sanitary sewer collection lines and convey to the Wastewater Treatment Plant for proper treatment. Thus, the Waters of the State are not receiving untreated raw sewage that may pose a threat to public health, safety, or welfare, or create a nuisance.

IMPLEMENTATION: Salt Lake City will continue to implement this BMP to eliminate sanitary sewage infiltration into the storm drain system. The sanitary sewer collection crew televises lines, which are prioritized by need. Emergency situations or suspicious collection line problems are first priority. New installations of collection lines are televised after their completion. The remaining sanitary sewer collection lines are systematically televised according to a mapping pattern that assures the lines are all televised within a 15-year period. 619,333 feet of pipe were televised in 2013. The storm drain system is inspected annually to make sure infiltration problems do not exist.

BMP 41: Maintain an industrial user database.

GOAL: To have an industrial users database available with Section 313 of Title III of the 1986 (SARA) chemicals or heavy polluters for tracking purposes.

DESCRIPTION: Salt Lake City uses paradox as the database for industrial users. As inspections are made and through field screening activities the database is modified. Industries that are determined to contribute substantial pollutant

loadings to the City Storm Drain System are kept in this database. The intent of the database record is to be able to track potential pollutants upstream of any outfall. If a certain pollutant is detected in a drainage system outfall, a search of the database will reveal all upstream industries that have indicated the constituent pollutant is present at the industrial site.

MEASUREMENT: The measurement for this database is an updated database record that is available when a pollutant is detected and traced back to the source as a result of the database.

REDUCTION OR BENEFIT: The benefit of this database is as a resource for tracking potential pollutants upstream of any outfall. The search of the database assists in the efforts and resolving the problem. The reduction of pollutants to the City storm drain system may result from using this database.

IMPLEMENTATION: Salt Lake City has implemented this BMP by updating the records on a relational database. The database is updated with site inspections and SWPPP reviews.

BMP 42: Obtain and review SWPPP prepared by industrial users within the Salt Lake City area.

GOAL: To obtain copies and review SWPPPs prepared by industries in the Salt Lake City area and make sure of their implementation.

DESCRIPTION: Salt Lake City's Industrial Storm Water Coordinator is responsible for setting up appointments with the industries in Salt Lake City regarding preparation and implementation of SWPPPs.

MEASUREMENT: The measurement for this BMP is the number of industries that have prepared a SWPPP.

REDUCTION OR BENEFIT: The benefit of obtaining an implemented SWPPP is the training of employees and pollution prevention measures that are in the plan. With a good plan that is properly implemented the industry reduces the amount of pollutants that may have entered the City's Storm Drain System.

IMPLEMENTATION: Salt Lake City's Industrial Storm Water Coordinator will continue implementing this BMP. Appointments are set up with the industries that

have been identified with permit requirements. Information such as the Guidance Document for Storm Water Management and the website http://www.pweng.slco.org/stormwater/html/guide.html are provided to the business. The State of Utah information sheet regarding requirements for the contents of a plan is provided. In 2013, Salt Lake City Stormwater Staff visited fifty-nine industrial users to review their SWPPP. Salt Lake City will continue to review Industrial SWPPPs to verify that they are prepared and have been implemented.

BMP 43: Identify industrial groups and distribute water quality education materials to them.

GOAL: To provide information to target industrial groups with BMPs regarding water quality, including notifying the industrial facilities of the compliance requirements of the State General Industrial Storm Water Permit.

DESCRIPTION: The purpose of this BMP is to identify industrial groups that may have an adverse impact on storm water quality. The State of Utah Industrial General Multi-Sector Permit for Storm Water identifies target industrial groups. These groups are required to obtain a State /City issued Storm Water Permit and implement water quality BMPs. Educational material is distributed to these industries by Salt Lake City's Industrial Storm Water Coordinator. Another method used to distribute water quality education material is through workshops, and educational material that is published and distributed for target industrial groups.

MEASUREMENT: The measurement of this BMP is the number of target industrial groups that are provided with water quality materials and State/City Industrial Storm Water Permit.

REDUCTION OR BENEFIT: The benefit of implementing this BMP is to provide water quality educational material to target industrial groups. The information provided facilitates the targeted industries the opportunity to meet the requirements of the State/City Storm Water Permit. This permit focuses on meeting water quality compliance. The benefit of implementing this BMP is that industries are educated about water quality and, have an understanding of the regulations, and BMPs that they can implement to be in compliance. As a result proper facility management, proper disposal methods, and water quality measurements are available for implementation. With implementation of these BMPs a reduction of pollutants are discharged to the storm drain system, and Waters of the State.

IMPLEMENTATION: Salt Lake City will continue to implement this BMP by distributing information and water quality material to the target industries. The implementation of BMP 38 regarding education material for industrial users on oil and toxic materials disposal compliments this particular BMP. During 2013, fifty-nine industries were formally inspected and provided water quality material. In addition to the educational material handed out to these individuals, the Salt Lake County Storm Water Coalition program provided information and educational material. The Salt Lake County Health Department provided waste management workshops for the Dry Cleaning Industry, and Construction and Demolition Contractors and Consultants. Salt Lake City distributed several brochures to the automotive related industry regarding water quality. Salt Lake City will continue to support and implement the aforementioned programs to distribute water quality education materials. In addition to the aforementioned material Salt Lake City has developed a Storm Water information pamphlet mailed out to over 90,000 residents in March of 2009. An updated pamphlet was created and distributed to approximately 48,000 in March 2013.

BMP 44: Staff a position for coordinating storm water pollution prevention.

GOAL: To have a full time position available to work with industry to minimize the pollutants released to the Salt Lake City storm drain.

DESCRIPTION: Salt Lake City Public Utilities has three full time staff In 2013, along with a seasonal employee to work with industry to minimize the pollutants released to the storm drain system. The staff is responsible and trained to work with other agencies and departments on illicit discharges or connections, and spill response. The staff works with industry regarding obtaining the State UPDES permit, preparing and implementing a SWPPP, and other issues regarding storm water that may require attention. Sampling for Storm Event Monitoring, and Dry Weather Monitoring, Part III B1&2 of the UPDES Municipal Separate Storm Sewer Permit, are also part of the staffs coordinating efforts

MEASUREMENT: The measurement for this BMP is staffing the positions.

REDUCTION OR BENEFIT: The benefit of this BMP is having a staff available to handle storm water issues and assist the business community in meeting regulations. Water quality improvement to the receiving water bodies is a major goal of the program. Implementation of the BMPs in the permit should have an impact on this goal.

IMPLEMENTATION: Salt Lake City's staff will continue implementation of this BMP. These positions will work closely with the Salt Lake City POTW pretreatment coordinator. With a combined effort illicit discharges will be removed from the storm drain system and industry will receive consistent guidance. In 2014 Salt Lake City will add a third full time position.

BMP 45: Review landfill-monitoring data.

GOAL: Review landfill data to determine if additional inspection, control, and monitoring requirements should be needed.

DESCRIPTION: Salt Lake City's Industrial Storm Water Coordinator is responsible for inspecting and reviewing landfill data to determine if they are complying with the Utah General Permit for Industrial Discharges. The data is reviewed to determine if additional inspection, control, and monitoring requirements should be needed.

MEASUREMENT: The inspections and obtaining monitoring data is the measurement for this BMP.

REDUCTION OR BENEFIT: The benefit of implementing this BMP is to have monitoring results and baseline data for the landfill. The monitoring data can be used to determine if additional controls are needed to mitigate pollutants from the landfill. As monitoring data is obtained the baseline data can be used with BMPs, and any additional controls necessary to reduce pollutants conveying to the storm drain system.

IMPLEMENTATION: The three permitted landfill facilities were inspected in 2013.

BMP 46: Develop a storm water quality-training program for development review personnel.

GOAL: To expand the knowledge of site development review personnel regarding storm water pollution prevention techniques and practices.

DESCRIPTION: The Salt Lake City Public Utilities Engineering Department is responsible for reviewing site development. As part of this responsibility the review personnel require the development to meet regulations requiring the development and submission of temporary and permanent erosion control plans for both subdivisions and building site development. Salt Lake City development

review personnel are trained regarding their role in making sure erosion control plans are included in new development. This training will address storm water pollution that may be contributed through construction activity by uncontrolled erosion and sedimentation, fueling activities and dust generation. Storm water permitting from the State of Utah, BMPs, and wheel cleaning regulations are additional topics discussed in the training.

MEASUREMENT: The measurement for this BMP is the training provided to the development review personnel. The quality of the training and topics discussed should focus on storm water quality techniques and practices for site development.

REDUCTION OR BENEFIT: The benefit attributed to this BMP is providing support and training to the development review personnel to expand their knowledge of storm water pollution prevention techniques. With this information provided to the development review personnel, erosion control plans, and storm water pollution prevention techniques are addressed during reviews. Thus, developments are required to have implemented pollution prevention at the site. As a result fewer pollutants reach the storm drain system and Waters of the State.

IMPLEMENTATION: Salt Lake City will continue to implement this BMP by providing training to development review personnel as needed during the permit period. Two reviewers attended Registered Stormwater Reviewer (RSR) training in 2013.

BMP 47: Coordinate with Salt Lake County to develop construction site BMP guidance manual.

GOAL: To have a guidance manual for BMPs at construction sites that can be used by contractors in the Salt Lake area.

DESCRIPTION: The purpose of this BMP is to have a guidance document available for contractors regarding storm water management during construction activities. This document would discuss the following: impacts of construction activities, preparing a SWPPP, and BMPs.

MEASUREMENT: The measurement for this BMP is the quality of the guidance document and the BMPs at construction sites that are implemented as a result of this document.

REDUCTION OR BENEFIT: The benefit of this guidance manual is to provide contractors with information regarding BMPs that may be implemented at their construction site. As these BMPs are implemented, storm water pollution prevention techniques and practices are used, and mitigate pollutants from conveying to storm drain systems and Waters of the State.

IMPLEMENTATION: The guidance manual was developed in May of 1994. Salt Lake City has referred this guidance document, "BMPs for Construction Activities" to several contractors in Salt Lake City. Salt Lake County produced a Guidance Document for Storm Water Management, updated manuals and BMP guidance on their website http://www.pweng.slco.org/stormwater/html/guide.html.

BMP 48: Develop a program for obtaining and reviewing SWPPP prepared by contractors.

GOAL: To obtain SWPPPs prepared by contractors on all sites in Salt Lake disturbing more than one acre.

DESCRIPTION: The purpose of this BMP is to obtain and review SWPPPs to insure construction sites are implementing pollution prevention techniques and practices. The State of Utah Storm Water Permit for Construction Activities requires contractors to develop and implement a SWPPP for construction activities that disturb greater than five acres. Salt Lake City Public Utilities requires a permit for sites that disturb more than one acre.

MEASUREMENT: The measurement for this BMP is the number of construction sites which meet the (greater than 5 acre criteria and 1-5 acre criteria), that have developed and implemented a SWPPP.

REDUCTION OR BENEFIT: The benefit attributed to this BMP is to have construction sites that are in compliance with storm water regulations. The implementation of a SWPPP with BMPs utilized will reduce the problems with pollutants including uncontrolled erosion and sedimentation from entering storm drain systems and Waters of the State.

IMPLEMENTATION: Salt Lake City will continue implementing this BMP. The Storm Water Quality personnel review the permits, and inspect the construction sites. All projects that have construction activity requiring a Salt Lake City Construction Activities Permit will be reviewed by the Stormwater Program Manager or a registered stormwater reviewer. All permitted projects are required to obtain a

NOT (Notice of Termination) which requires a final inspection before the release of a certificate of occupancy.

BMP 49: Develop interdepartmental MOU for enforcement of SWPPP.

GOAL: To have an interdepartmental understanding of addressing the enforcement of construction activity erosion control plans and SWPPPs.

DESCRIPTION: The purpose of this BMP is to have a memorandum of understanding regarding the procedures to enforce construction activity erosion control plans and SWPPP. The Salt Lake City Department of Public Utilities is responsible for obtaining the SWPPP, and addressing enforcement. The State of Utah is notified when construction sites greater than 5 acres require enforcement. Site equal to 1 acre but less than 5 acres will be enforced by Salt Lake City. The two water quality agencies will work together to assist the construction site contractors in meeting and complying with storm water regulations.

MEASUREMENT: The measurement for this BMP is a MOU that clearly defines the procedures for enforcement of SWPPP, and the number of enforcement actions taken.

REDUCTION OR BENEFIT: The benefit of this BMP is to have an interdepartmental enforcement program developed for Storm Water Pollution Prevention. The enforcement is utilized to bring construction sites into compliance with the storm water regulations. With the construction sites meeting compliance standards fewer pollutants enter the storm drain system and Waters of the State.

IMPLEMENTATION: Salt Lake City has an interdepartmental understanding of the enforcement procedures regarding Storm Water Pollution Prevention. Salt Lake City has a Storm Water General Permit for Construction Activities on Sites Between, 1 and 5 acres. Salt Lake City will have enforcement authority on these construction sites. Sites greater than 5 acres will have State enforcement. Both agencies will work together to strengthen the enforcement of construction activities.

BMP 50: For City projects identify erosion control measures as a specific bid item.

GOAL: To have consistent erosion control measures for City projects.

DESCIPTION: Salt Lake City will identify erosion control measures as a specific item in contract bid schedules and performance bond requirements. The purpose of identifying the erosion control measures is to make sure they are implemented to reduce pollutants from construction activity. Construction activity can contribute to storm water pollution through uncontrolled erosion and sedimentation, fueling activities and dust generation. Erosion control plans are needed temporarily during grubbing and the construction phase, and permanently after construction is complete. All construction projects disturbing 1 acre or greater are required to apply for coverage under the State of Utah general permit for construction activity. Sites that are greater than 1 acre and less than 5 acres will require permits from the State of Utah and Salt Lake City Public Utilities. Salt Lake City has added Section 6.07 paragraph G to its general contract conditions which specifically requires contractors to obtain coverage under the general permit. The General permit also requires contractors to prepare a SWPPP for construction activity.

MEASUREMENT: The measurement for this BMP is the City projects that have erosion control measures as specific bid items.

REDUCTION OR BENEFIT: The benefit of implementing this BMP is requiring contractors to control erosion on projects within the city. This requirement mitigates the transportation of storm water pollution through uncontrolled erosion and sedimentation from construction activity.

IMPLEMENTATION: Contractors are required under general contract conditions to obtain a general permit for construction from the State of Utah when disturbing 1 acre or greater. Sites between 1 and 5 acres, or of any size in sensitive areas, require permits from both the State of Utah and Salt Lake City Public Utilities.

BMP 51: Participate in seminars conducted by State of Utah and other agencies.

GOAL: To share information and new techniques through storm water seminars.

DESCRIPTION: Seminars conducted by the State of Utah and other agencies provide information to educate and train storm water personnel. New techniques and regulations are introduced to assist the storm water personnel in better job performance

MEASUREMENT: The measurement of this BMP is the training and dissemination of information made available to Salt Lake City storm water personnel.

REDUCTION OR BENEFIT: The benefit of this BMP is a consistent approach to resolving storm water issues State wide and sharing of information.

IMPLEMENTATION: Salt Lake City has implemented this BMP by attending seminars that have been made available. In 2013, Staff attended the Environmental Crimes Training, RSR, RSI, the annual Stormwater Expo, the Watershed symposium and participated in the USWAC and Salt Lake County Stormwater Coalition.

INTRODUCTION

The purpose of this chapter is to document any proposed changes to the Storm Water Management Plan (SWMP). The 51 BMPs in the Storm Water Management Plan have been organized to address the seven control measures outlined in the permit.

A. PROGRAM CHANGES

In 2010, BMP 3 – "leaf bag program", changed to the "Tan Can Program." The inception of the Tan Can program was October 2009, and that was the last year leaf bags were distributed to the citizens of Salt Lake City. Salt Lake City felt that replacing the plastic leaf bags with containers would lessen the amount of none biodegradable material in the landfills, reaffirming Salt Lake City's commitment to sustainability. This has been the only significant change to the BMPs in the Storm Water Management Plan.

B. CONSTUCTION SITE ENFORCEMENT

During 2009, Salt Lake City implemented the use of the new construction site inspection form that is forwarded to the State after construction site inspections. Contractors are required to submit a Notice of Intent (NOI) and develop a SWPPP.

C. Use of Geographic Information Systems (GIS)

During 2013, Salt Lake City implemented the use of a GIS system for tracking and management of Construction Activities Permits, Industrial Permits, Dry weather screening, and IDDE investigations. The use of the GIS system provides improved coordination, tracking and management of these programs. BMPs 22, 23, 24, 25, 26, 28, 31, 33, 34, 37, 41, and 48 now utilize GIS management systems.

INTRODUCTION

The UPDES Permit requires that revisions to the assessments of BMPs and the fiscal analysis of the Permittee be reported. The following discussion identifies any such changes to these items.

A. BMP ASSESSMENTS

The current Storm Water Management Plan addresses all seven of the control measures identified in Salt Lake City's recent permit that became effective on June 1, 2006. Although the permit has expired, the City will continue to operate under the existing Storm Water Management Plan. Salt Lake City has organized the BMPs according to the seven control measures.

The Environmental Protection Agency (EPA) conducted an audit on August 16-19 2004, that also cited enforcement authority as a deficiency in the Storm Water Management Plan for Salt Lake City. On August 14, 2007 the ordinance was passed by City Council and approved by Salt Lake City Mayor Rocky C. Anderson on August 17, 2007.

B. FISCAL ANALYSIS

There were no revisions to the fiscal analysis in 2013. Section VII provides the budget and expenditures for 2012 – 2014.

INTRODUCTION

Salt Lake City is required to monitor the MS4 and obtain data throughout the reporting period. Monitoring data are discussed and presented in two categories:

- Wet Weather Monitoring
- Dry Weather Screening

A. WET WEATHER MONITORING

Wet Weather sampling is done at three locations. Each location represents a specific land use category – Residential, Industrial, and Mixed Use. Sampling is done twice each year. Weather forecasts are monitored on a daily basis to determine when a representative storm event is expected. Approximately 24 hours prior to the prediction of a representative storm, preparations for sampling begin. At this point in the event, the sampling units are programmed to take samples at specified volume intervals, based on predicted rain volume.

Grab samples are taken at each station on the rising limb of the hydrograph and analyzed for pH, Oil nd Grease, and Total Cyanide. An automatic sampler continues to sample at each location throughout the storm event. When the runoff ceases, or when flow returns to approximate normal base flow, the sample bottles are collected. This sample is then composited base on flow rate and total volume and taken to a certified laboratory for analysis of the samples collected. The composite sample is analyzed for pH, BOD, Hardness, Nitrogen, Phosphorus, TDS, TSS, and metals. During the storm event, field measurements of pH and temperature are taken at each sampling site. In addition, general observations such as rain gage reading, flow level and rate reading, and status of equipment are recorded by the automatic sampler.

See Appendix II for Storm Event and Sampling Data Results.

B. DRY WEATHER SCREENING

Salt Lake City Dry Weather Screening program, Salt Lake City is required to screen all outfalls at least once during the permit term. Salt Lake City Department of Public Utilities completed monitoring and inspection of all identified outfalls throughout the permit cycle. The Storm Water Utility continues to perform dry weather sampling based on the extension of the current MS4 Permit. Five outfalls were monitored and screened in 2013.

INTRODUCTION

In accordance with the Permit requirements, the following data indicates Budget and Annual Expenditures for fiscal year 2012-13. Salt Lake City fiscal calendar is from July 1 to June 30. All expenditures and budgets are based on fiscal reporting. The capital necessary to accomplish the storm water management program will continue to be funded through the stormwater utility fees collected from the users.

A. BUDGET AND ANNUAL EXPENDITURES

The budget and annual expenditures for the 2012/13 and 2013/14 for the Storm Water Utility are presented in Table VII.1. The storm water charges, operating expenditures and ending balances for the Storm Water Utility are in Table VII.2.

B. STORM WATER QUALITY IMPLEMENTATIONS COSTS

The annual operation expense associated with the storm water management program is presented in Table VII.2. The annual expenses shown are those for the Storm water utility, and are storm water quality implementation costs. Other portions of the program such as Neighborhood Cleanup programs are funded under the general fund.

TABLE VII.1

BUDGET AND ANNUAL EXPENDITURES		
Budget Year (June 30 to July 1)	***2012/13 (actual)***	***2013/14 (projected)***
STORM WATER CHARGES	$ 8,136,982	$ 8,050,000
OTHER INCOME	$ 1,648	$ 1,000
INTEREST INCOME	$ 40,536	$ 100,000
OPERATING INCOME	$ 8,179,166	$ 8,151,000
OPERATING EXPENDITURES	$ (4,585,011)	$ (4,737,525)
NET INCOME EXCLUDING DEPRECIATION	$ 3,594,155	$ 3,413,475
OTHER PAYMENTS/BOND PROCEEDS	$ 4,739,274	$ 0
OTHER CONTRIBUTIONS	$ 23,115	$ 516,000
CAPITAL OUTLAY	$ (537,291)	$ (155,500)
DEBT SERVICE	$ (6,417,845)	$ (1,390,000)
DEBT SERVICE NEW	$ 0	$ 0
OTHER INCOME & EXPENSE	$ (2,049,849)	$ (829,500)
AVAILABLE FOR CAPITAL	$ 1,544,306	$ 2,583,975
CAPITAL IMPROVEMENTS	$ (4,140,467)	$ (6,216,680)
BEGINNING CASH BALANCE	$ 10,713,237	$ 8,117,076
CASH INCREASE/(DECREASE)	$ (2,596,161)	$ (3,632,705)
ENDING BALANCES	$ 8,177,076	$ 4,484,371

TABLE VII.2

ESTIMATED ANNUAL STORM WATER QUALITY IMPLEMENTATION COSTS					
Program Item	***2008-2009 Annual Estimated Costs***	***2009-2010 Annual Estimated Costs***	***2010-11 Annual Estimated Costs***	***2011-12 Annual Estimated Costs***	***2012-13 Annual Estimated Costs***
Personnel 2 Full Time Equivalent and Seasonal	$153,044	$154,593	$188,844	$221,594	$280,605
Vactor Truck Maintenance **	$224,381	$112,700	$85,000	$112,787	$119,950
Street Sweeping and Leaf Bag Program (2009)***	$445.890	$446,261	$640,000	$620,405	$821,508
Public Education	$13,000 +	$13,000	$13,000	$13,000	$13,000
Wet Weather Testing	$2,772	$2,922	$3,000	$3,000	$3,000
Other Sampling		$960	$1,000	$1,000	$1,000
Total Estimated Annual Cost For Storm Water Quality	**$839,087**	**$739,076**	**$930,000**	**$971,786**	**$1,239,063**

** 2010 Lower Vactor truck maintenance expenses due to depreciation methods.

*** 2009 Street sweeping cost includes 3 new street sweepers.

INTRODUCTION

The purpose of this chapter is to present a program summary describing the number and nature of enforcement actions, inspections, and public education programs.

A. ENFORCEMENT ACTIONS

Salt Lake City Storm Water Division personnel investigated 43 violations in 2013. During this reporting period 21 violations required an enforcement action. These investigations were initiated for various reasons including:

- Salt Lake City Storm Drainage personnel observing unusual characteristics in the flow of a storm drainage conveyance. These observations have included discharges with sanitary sewer characteristics, oil sheen, suds from surfactants, and unusual odors or color. When such observations occur storm drainage personnel work together as a team to trace the storm drain system to the source. Additionally, illicit discharges and connections into the system observed by drainage personnel have been investigated and resulted in enforcement activity.

- Salt Lake City Pre-Treatment personnel work closely with the Storm Water personnel to resolve illicit connections and discharges from either system. Enforcement actions have resulted from the two programs working together.

- Salt Lake City personnel working in various capacities such as administrators, inspectors, and other field personnel have reported illicit discharges that have resulted in enforcement actions.

- State of Utah, Division of Water Quality, and Salt Lake Valley Health Department have reported illicit discharges. In these cases the State of Utah and/or Health Departments have requested Salt Lake City Public Utilities assistance in the investigations and enforcement actions.

- Citizen complaints regarding illicit discharges have resulted in enforcement action taken.

- Business complaints regarding illicit discharges are another source of information. Some of these complaints have resulted in enforcement actions.

- Industries have reported spills or leaks at their facility that have required enforcement.

The 21 enforcement actions during 2013 have varied depending on the severity of the violation and the degree of clean up involved. Enforcement actions have resulted in cease and desist orders, required clean up procedures and/or penalties.

B. INSPECTIONS

Industrial Inspections

Salt Lake City actively works in partnership with the regulated industrial and business community to provide consistent guidance and direction. Inspections of the businesses that are required to obtain State Permit and prepare a Storm Water Pollution Plan are key elements of Salt Lake City's storm water program.

Industries that do not have State of Utah Storm Water Permit or a SWPPP prepared and implemented are assisted in the process of obtaining a Permit, preparing and implementing a SWPPP, and given additional information as required. Once these industries obtain the Permit and SWPPP they are scheduled for inspections throughout their permit cycle. Industries that are reported with an illicit discharge or illicit connection are also inspected. The inspection may result in enforcement.

Construction Inspections

Construction sites greater than one acres are required to be permitted by the State of Utah and Salt Lake City Public Utilities. A copy of the SWPPP is reviewed for all new permits. These construction sites are inspected during various phases of the project.

Summary of Inspections

Salt Lake City conducted 645 inspections during 2013. These totals include industrial inspections, construction inspections, and incident responses. A complete listing of inspections is included Appendix IV.

C. PUBLIC EDUCATION PROGRAMS

Salt Lake City, in conjunction with Salt Lake County, conducted a public opinion survey in 2010. The results of the surveys shaped the public involvement and education plan of the Salt Lake City Storm Water Management Program. Salt Lake City participated in a number of public education programs throughout 2013. The public education plan is designed to stimulate the public to alter its lifestyle and to make the financial commitment necessary to preserve water quality. Education is recognized as an effective management tool, a non-structural source of control that fosters recognition on the part of resident habits that result in degradation of water runoff quality.

Salt Lake City

In 2011, Salt Lake City purchased an EnviroScape® watershed model to use in presentations at the City public and private schools. This model represents a watershed where students reenact various scenarios to demonstrate non-point source pollution and its effects on our lakes and rivers. Salt Lake City participated in World Water Quality Day and presented to approximately 120 students. The city also participated in the Water Quality Fair at Hogle Zoo reaching more than 1200 students. More than 48,000 utility customers received flyers in their billing statement, providing storm water education and guidance.

Stormwater Coalition

The public education and information program is primarily completed as part of the Storm Water Coalition. The 2013 budget for Salt Lake City was $13,000. The 2013 budget was used for a General Media Campaign, Movie Theatre Advertisement, Television Commercial, Storm Water Posters, Activity Books, Pencils, Magnets, and Notepads.

Activities conducted as part of the public involvement and education plan include: media campaigns, information booth, BMP Guidance Document, Newspaper Inserts, Decals, Target Group Presentations, and Waterway Clean-ups.

A summary of the coalition educational program activities is included in Appendix III.

INTRODUCTION

Salt Lake City is required by the UPDES Permit to identify long-term water quality improvements or degradation trends. Salt Lake City has collected data from storm events on a routine basis since the issuance of the permit. The intent of the monitoring is to determine any trends in stormwater quality to assist with the implementation of BMPs.

In accordance with the permit, Salt Lake City is required to prepare a summary of five years of wet weather monitoring during the final year of the permit.

SAMPLING LOCATIONS

Three sampling locations representing various land uses have been established to conduct the wet weather monitoring (See Figures IX.1-IX.3):

- JOR 8.32 Located at 900 South Gale Street represents mixed land use (commercial, residential and light industrial).
- MIL 2.60 Located at the Forest Dale golf course represents residential land use.
- LED 1.87 Located at 5500 West on the Lee Drain represents industrial land use.

Sampling at the above locations is conducted twice a year, during the spring and fall. Sampling includes grab samples taken on the rising limb of a representative storm, and a flow-weighted composite sample collected throughout the duration of the storm. The majority of sampling events in the past 5 years have occurred in May and October. Not all locations have been sampled each year due to either a lack in precipitation or sampling equipment malfunctions. Appendix II provides additional sampling information.

EVENT MEAN CONCENTRATIONS (EMC's)

Automated samplers are used to collect twelve individual samples throughout the storm event. The samples are then combined based on flow into one composite sample. The composite sample concentration is a volume-weighted average of all the individual samples that were taken. Therefore, the EMC for flow-weighted composite samples is simply the concentration of the composite sample.

All sample result concentrations were converted to a storm event load, see Table AII.1

$L = 2.72*C*V$

Where:

L = Event Load (lbs)

C = Event Concentration (mg/L)

V = Event Runoff Volume (acre-ft)

2.72 = Unit Conversion Factor

RESULTS

Analyses were conducted on pollutant concentrations of the composite results during a storm event. An analysis of the average pollutant concentrations (2009 – 2013) for each outfall was conducted in order to evaluate differences due to land use. The results are provided in Table IX.1 and Figure IX.2 - IX.7

TABLE IX.1

Station	Land use	2009 -2013 Cumulative 5-year Average Concentration (mg/L)					
		TSS	*Total Phosphorous*	*BOD_5*	*Total Copper*	*Total Lead*	*Total Zinc*
JOR 8.32	Mixed	191.0	0.484	23.38	0.039	0.031	0.180
MIL 2.60	Residential	152.4	0.446	21.56	0.029	0.016	0.123
LED 1.87	Industrial	126.5	0.309	5.44	0.019	0.006	0.068

FIGURE IX.2

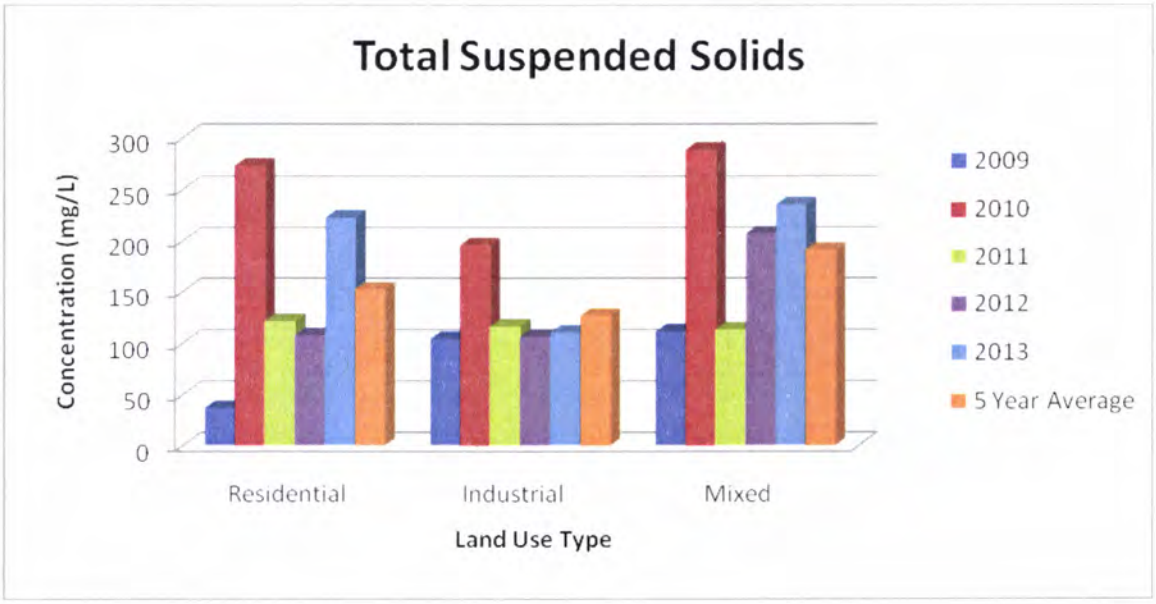


FIGURE IX.3

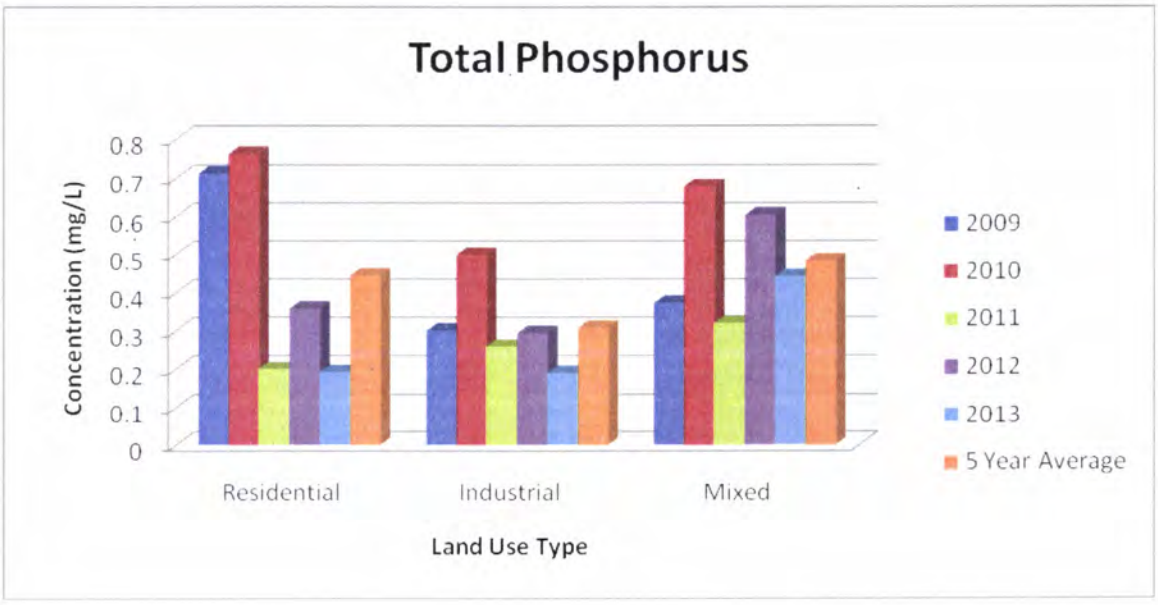


FIGURE IX.4

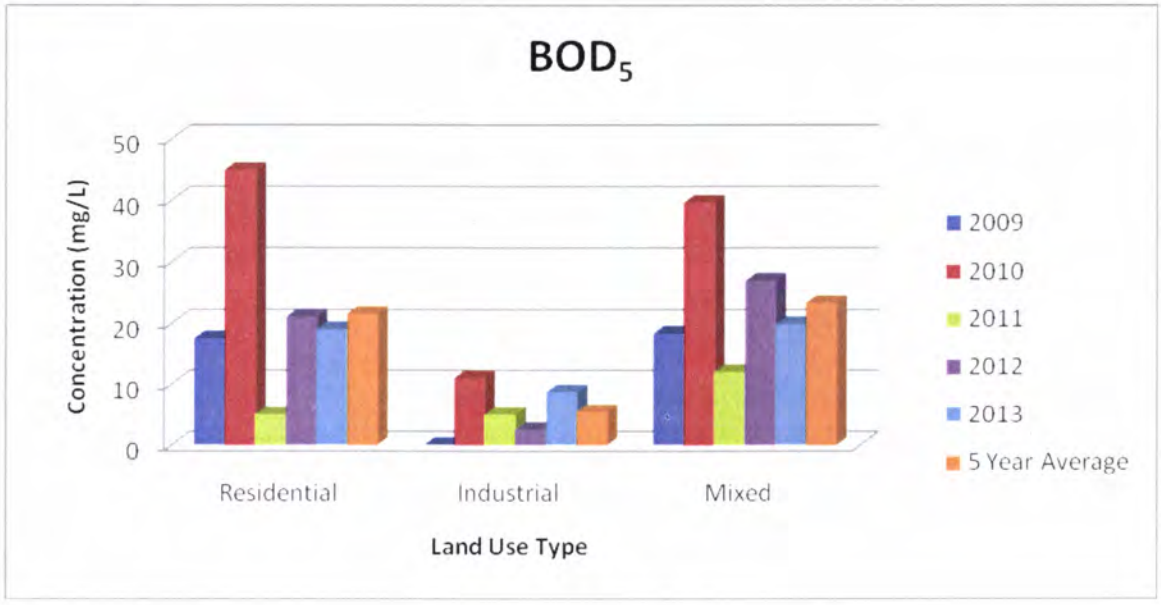


FIGURE IX.5

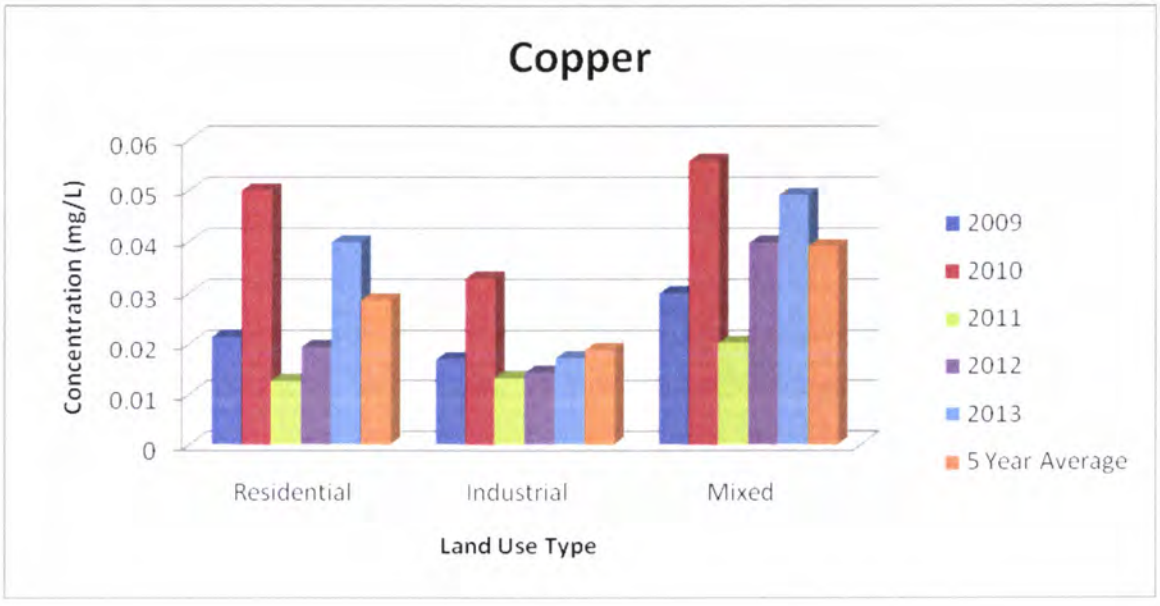


FIGURE IX.6

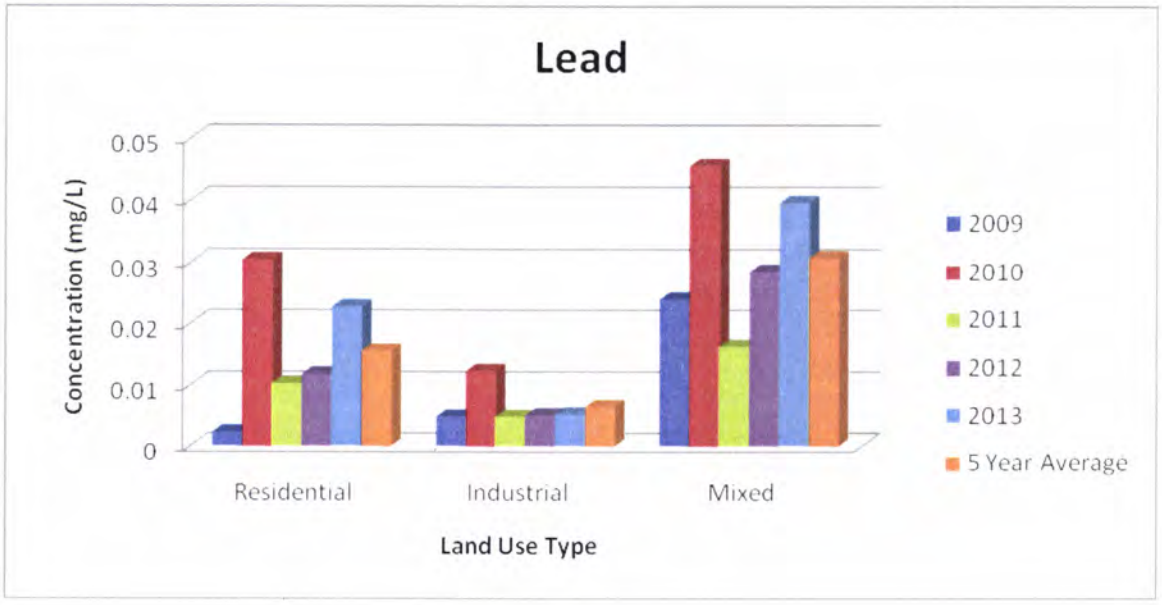
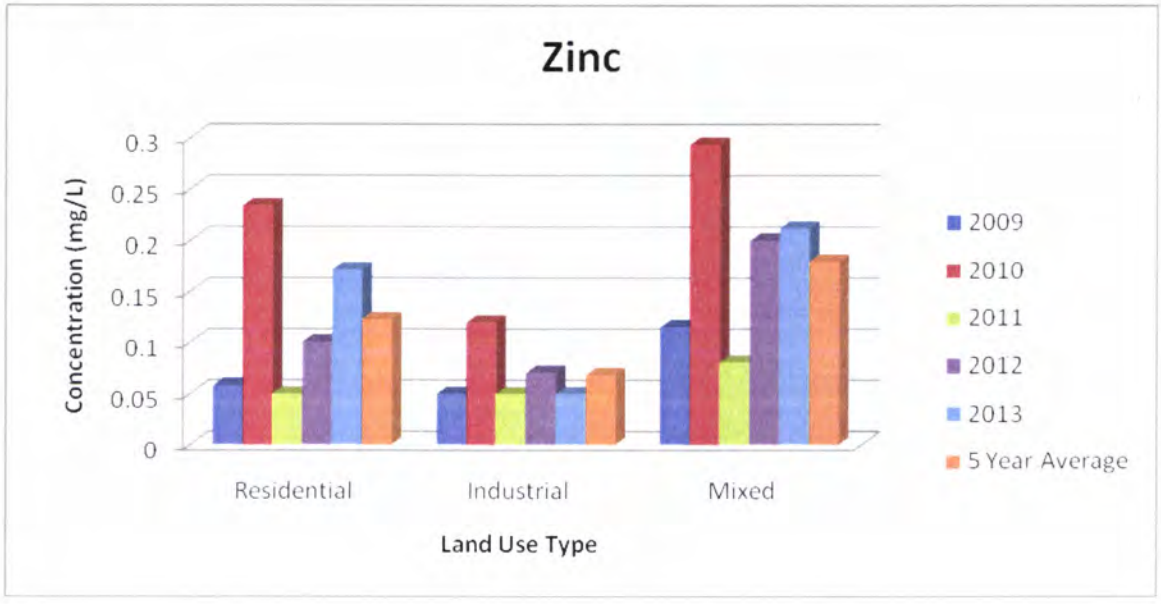


FIGURE IX.7



Cumulative 5- year average concentration trends based on Land use

- The mixed land use had the highest runoff concentrations of Total Suspended Solids, BOD_5, Total Lead, Total Zinc, Total Copper and Total Phosphorus.
- Industrial land use had the lowest concentration of all 5 constituents.

It appears that the mixed land use and the residential land use had increases in annual concentrations of Total suspended solids. It should also be noted that this land use area has little treatment of stormwater potentially leading to the high concentrations of all constituents. This is the area of focus for a new stormwater treatment facility. The industrial land use is highly impervious but most conveyances are grassy swales which allow for infiltration and treatment of stormwater. The industrial land use is also newer development with increased storm water quality requirements.

FIGURE AII.1 – GALE STREET DRAINAGE BASIN MAP (JOR 8.32)

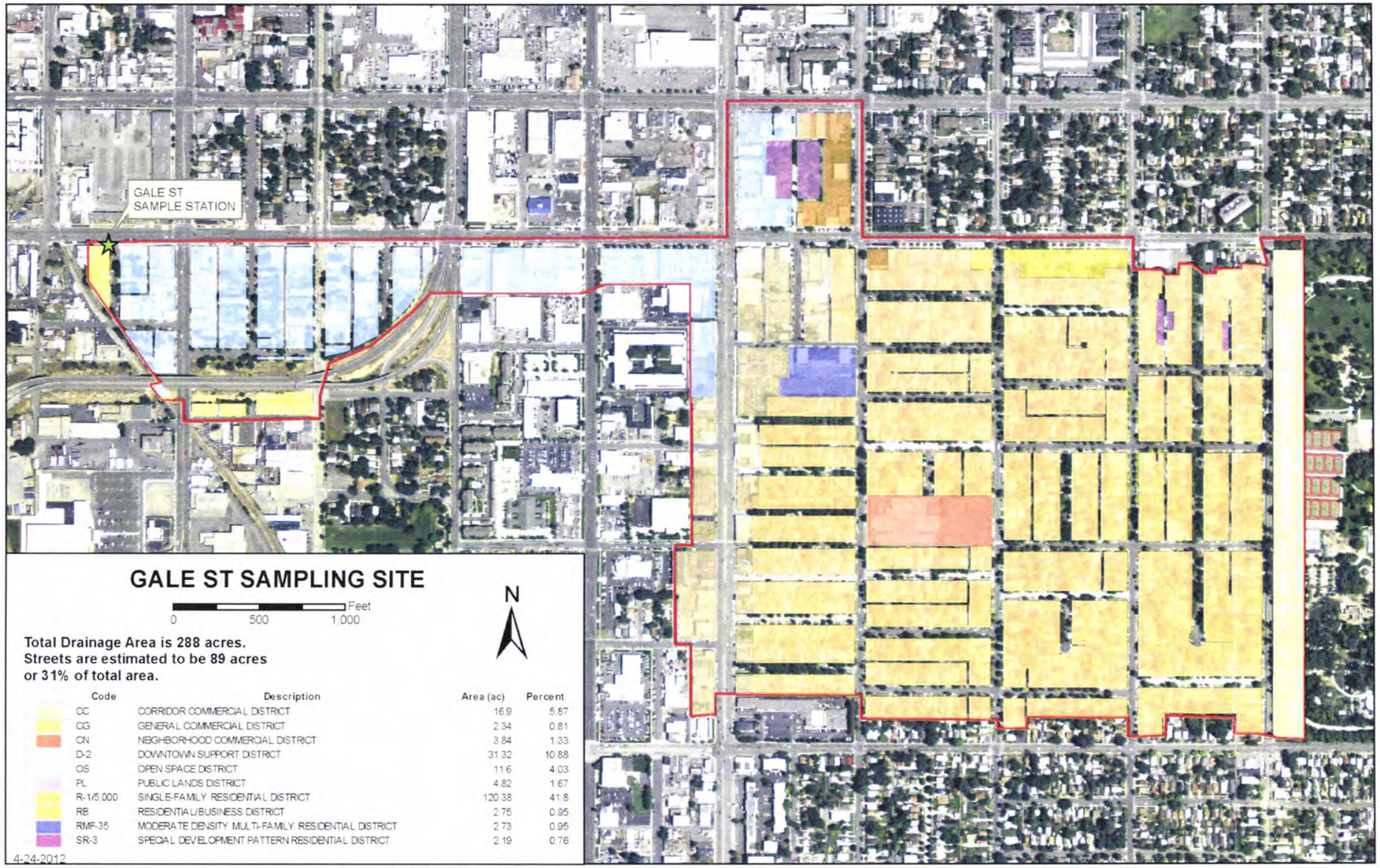


FIGURE AI.2 – LEE DRAIN DRAINAGE BASIN MAP (LED 1.87)

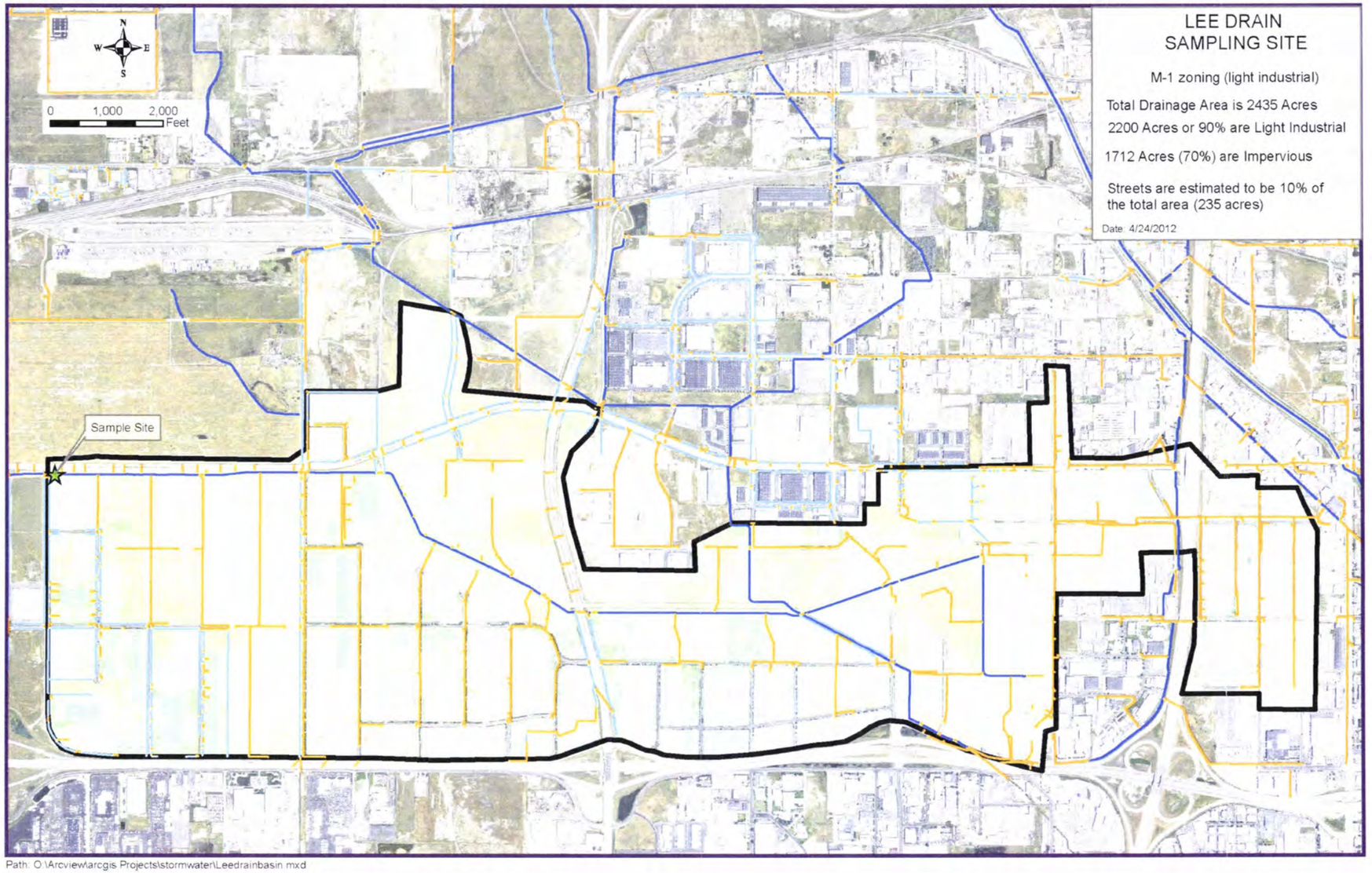


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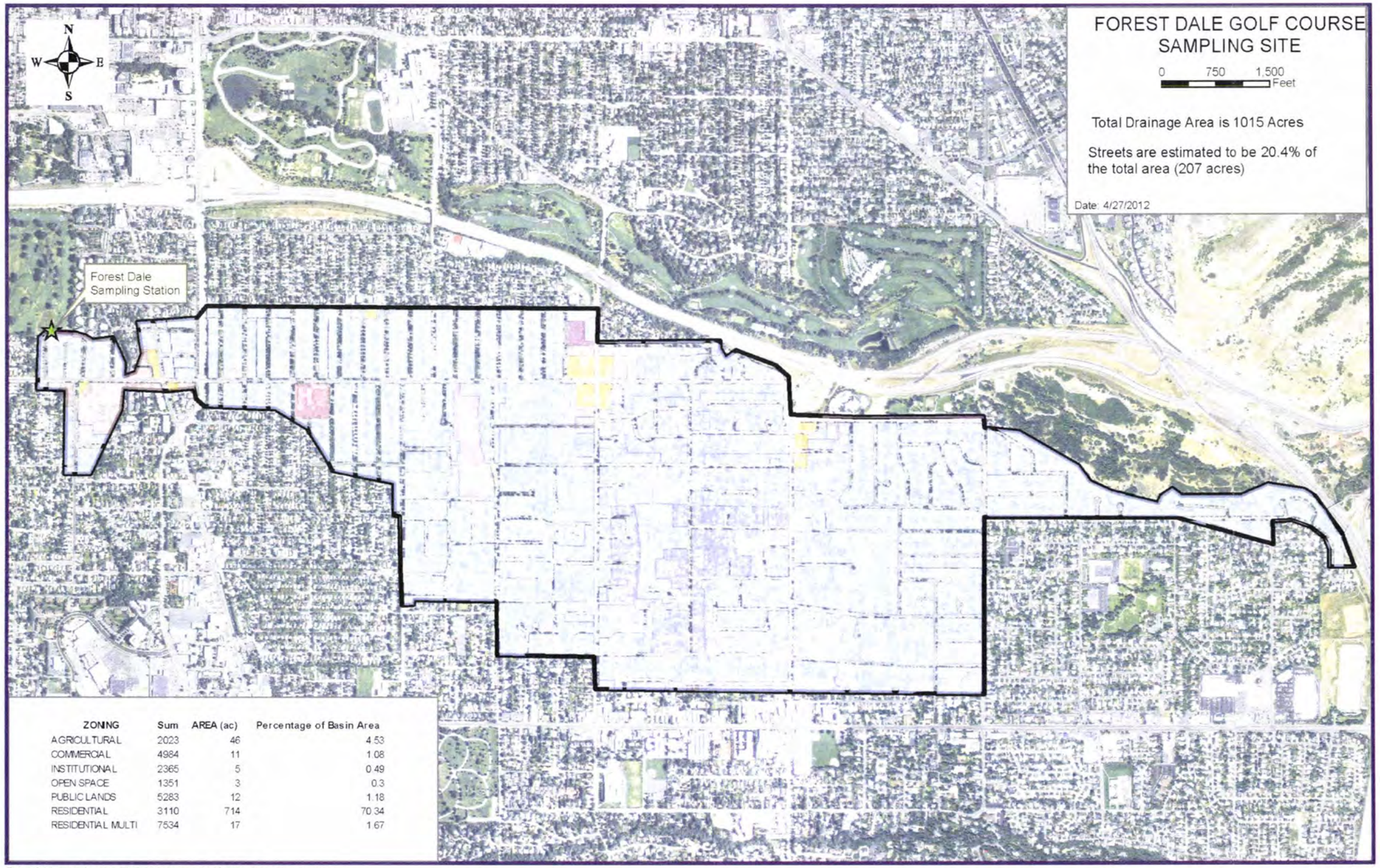
FIGURE AII.3 FOREST DALE DRAINAGE BASIN MAP (MIL 2.60)



ZONING	Sum	AREA (ac)	Percentage of Basin Area
AGRICULTURAL	2023	46	4.53
COMMERCIAL	4984	11	1.08
INSTITUTIONAL	2365	5	0.49
OPEN SPACE	1351	3	0.3
PUBLIC LANDS	5283	12	1.18
RESIDENTIAL	3110	714	70.34
RESIDENTIAL MULTI	7534	17	1.67

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SALT LAKE CITY REPORT CERIFICATION

"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 gathered and evaluated 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."

Jeffry T. Niermeyer
Director, Salt Lake City Public Utilities

Appendix I - 2013 Weather Data for Wet Weather Sampling Storm Events

Weather History for Salt Lake City, UT

Monday, April 1, 2013

Monday, April 1, 2013

« Previous Day April 1 2013 View Next Day »

Daily Weekly Monthly Custom

	Actual	Average	Record
Temperature			
Mean Temperature	**56** °F	**47** °F	
Max Temperature	**59** °F	**58** °F	**76** °F (1911)
Min Temperature	**52** °F	**37** °F	**18** °F (1896)
Degree Days			
Heating Degree Days	9	18	
Month to date heating degree days	9	18	
Since 1 July heating degree days	4867	4936	
Cooling Degree Days	0	0	
Month to date cooling degree days	0	0	
Year to date cooling degree days	0	0	
Growing Degree Days	2 (Base 50)		
Moisture			
Dew Point	**39** °F		
Average Humidity	54		
Maximum Humidity	71		
Minimum Humidity	37		
Precipitation			
Precipitation	**T** in	**0.06** in	**0.95** in (1984)
Month to date precipitation	T	0.06	
Year to date precipitation	2.91	4.35	
Snow			
Snow	**0.00** in	**0.20** in	**6.00** in (1984)
Month to date snowfall	0.0	0.2	
Since 1 July snowfall	69.8	52.1	
Snow Depth	**0.00** in		
Sea Level Pressure			
Sea Level Pressure	**29.88** in		
Wind			
Wind Speed	**10** mph (South)		
Max Wind Speed	**29** mph		
Max Gust Speed	**35** mph		
Visibility	**9** miles		
Events	Rain		

T = Trace of Precipitation, **MM** = Missing Value

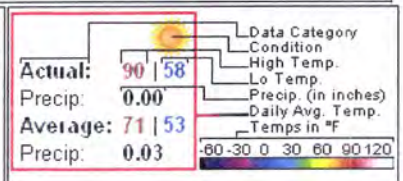
Source: NWS Daily Summary

« Previous Month	« 2012	April 2013			2014 »	Next Month »
Sunday	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**
	1 Actual: 59 | 52 Precip: T Average: 58 | 37 Precip: 0.06	2 Actual: 61 | 42 Precip: 0.19 Average: 58 | 37 Precip: 0.07	3 Actual: 68 | 43 Precip: 0.00 Average: 58 | 37 Precip: 0.06	4 Actual: 73 | 48 Precip: 0.00 Average: 58 | 37 Precip: 0.06	5 Actual: 65 | 47 Precip: 0.16 Average: 59 | 37 Precip: 0.07	6 Actual: 62 | 45 Precip: 0.00 Average: 59 | 37 Precip: 0.07
7 Actual: 64 | 43 Precip: 0.00 Average: 59 | 38 Precip: 0.07	8 Actual: 50 | 42 Precip: 0.59 Average: 59 | 38 Precip: 0.06	9 Actual: 43 | 30 Precip: 0.00 Average: 60 | 38 Precip: 0.07	10 Actual: 54 | 30 Precip: 0.00 Average: 60 | 38 Precip: 0.07	11 Actual: 58 | 42 Precip: 0.14 Average: 60 | 38 Precip: 0.07	12 Actual: 61 | 38 Precip: 0.00 Average: 60 | 39 Precip: 0.06	13 Actual: 61 | 47 Precip: 0.01 Average: 61 | 39 Precip: 0.07
14 Actual: 49 | 32 Precip: 0.00 Average: 61 | 39 Precip: 0.06	15 Actual: 49 | 34 Precip: 0.12 Average: 61 | 39 Precip: 0.07	16 Actual: 45 | 39 Precip: T Average: 62 | 39 Precip: 0.06	17 Actual: 48 | 30 Precip: 0.00 Average: 62 | 40 Precip: 0.07	18 Actual: 50 | 27 Precip: 0.00 Average: 62 | 40 Precip: 0.06	19 Actual: 56 | 37 Precip: 0.00 Average: 62 | 40 Precip: 0.07	20 Actual: 59 | 44 Precip: 0.20 Average: 63 | 40 Precip: 0.06
21 Actual: 66 | 39 Precip: 0.00 Average: 63 | 41 Precip: 0.07	22 Actual: 56 | 49 Precip: 0.00 Average: 63 | 41 Precip: 0.07	23 Actual: 51 | 31 Precip: 0.00 Average: 64 | 41 Precip: 0.06	24 Actual: 61 | 37 Precip: 0.00 Average: 64 | 41 Precip: 0.06	25 Actual: 65 | 38 Precip: 0.00 Average: 64 | 42 Precip: 0.07	26 Actual: 71 | 41 Precip: 0.00 Average: 65 | 42 Precip: 0.07	27 Actual: 75 | 45 Precip: 0.00 Average: 65 | 42 Precip: 0.07
28 Actual: 76 | 51 Precip: 0.00 Average: 66 | 43 Precip: 0.07	29 Actual: 75 | 47 Precip: 0.00 Average: 66 | 43 Precip: 0.07	30 Actual: 61 | 50 Precip: 0.00 Average: 66 | 43 Precip: 0.07				

Month Precipitation - Actual month total: **1.41** Normal month total: **1.99**

Calendar Key

Sunny / Clear · Mostly Cloudy / Partly Sunny · Mostly Sunny / Partly Cloudy · Cloudy · Rain · Snow · Hail / Flurries · Thunderstorms · Hazy / Fog · Sleet · '?' denotes 'chance of' · Unknown



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Weather History for Salt Lake City, UT

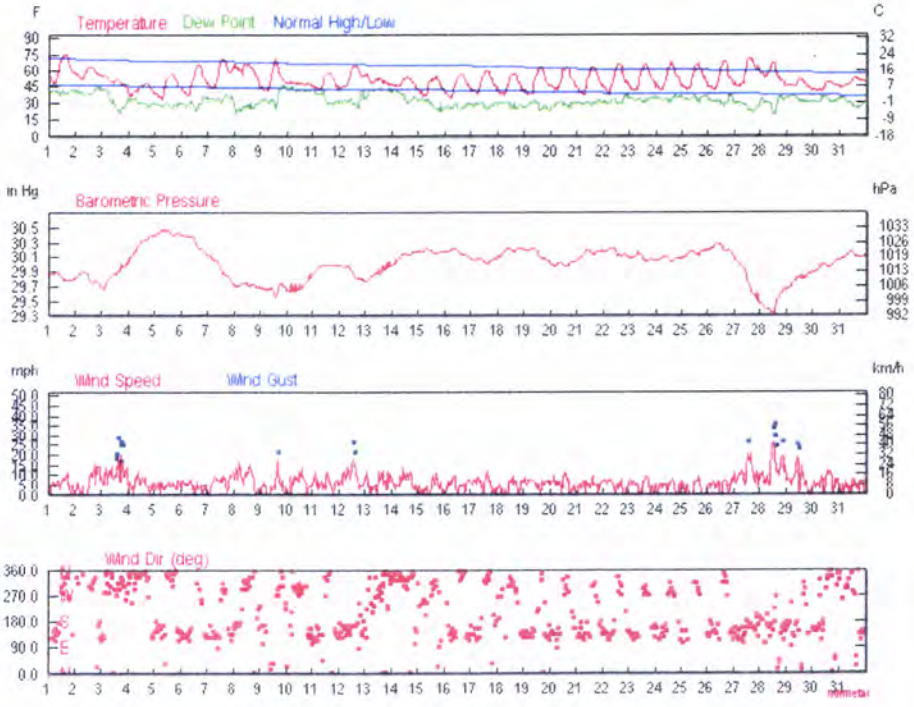
Month of October, 2013

Month of October, 2013

« Previous Month October 10 2013 View Next Month »

Daily Weekly **Monthly** Custom

	Max	Avg	Min	Sum
Temperature				
Max Temperature	77 °F	64 °F	51 °F	
Mean Temperature	63 °F	53 °F	44 °F	
Min Temperature	56 °F	43 °F	34 °F	
Degree Days				
Heating Degree Days (base 65)	21	12	2	362
Cooling Degree Days (base 65)	0	0	0	0
Growing Degree Days (base 50)	12	3	0	105
Dew Point				
Dew Point	46 °F	32 °F	19 °F	
Precipitation				
Precipitation	0.29 in	0.02 in	0.00 in	0.49 in
Snowdepth	0.0 in	0.0 in	0.0 in	-
Wind				
Wind	32 mph	7 mph	0 mph	
Gust Wind	41 mph	22 mph	16 mph	
Sea Level Pressure				
Sea Level Pressure	30.49 in	30.01 in	29.33 in	



Certify This Report

Monthly Calendar Weather History Overview

Precipitation: Actual month total **0.49** Normal month total **1.52**

Print This Weather Calendar

October 2013

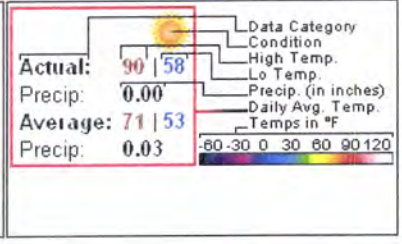
« Previous Month « 2012 2014 » Next Month »

« Previous Month	« 2012	October 2013			2014 »	Next Month »
Sunday	**Monday**	**Tuesday**	**Wednesday**	**Thursday**	**Friday**	**Saturday**
		1 Actual: 77 | 49 Precip: 0.00 Average: 72 | 47 Precip: 0.05	2 Actual: 68 | 52 Precip: T Average: 71 | 46 Precip: 0.04	3 Actual: 57 | 50 Precip: T Average: 71 | 46 Precip: 0.05	4 Actual: 51 | 37 Precip: 0.01 Average: 70 | 45 Precip: 0.05	5 Actual: 56 | 34 Precip: 0.00 Average: 70 | 45 Precip: 0.05
6 Actual: 67 | 38 Precip: 0.00 Average: 69 | 45 Precip: 0.04	7 Actual: 76 | 43 Precip: 0.00 Average: 69 | 44 Precip: 0.05	8 Actual: 69 | 56 Precip: 0.00 Average: 68 | 44 Precip: 0.05	9 Actual: 74 | 41 Precip: T Average: 68 | 44 Precip: 0.04	10 Actual: 51 | 48 Precip: 0.29 Average: 67 | 43 Precip: 0.05	11 Actual: 60 | 43 Precip: 0.00 Average: 67 | 43 Precip: 0.05	12 Actual: 66 | 44 Precip: 0.00 Average: 67 | 43 Precip: 0.04
13 Actual: 59 | 49 Precip: 0.05 Average: 66 | 42 Precip: 0.05	14 Actual: 57 | 46 Precip: 0.01 Average: 66 | 42 Precip: 0.05	15 Actual: 56 | 36 Precip: 0.00 Average: 65 | 42 Precip: 0.05	16 Actual: 59 | 35 Precip: 0.00 Average: 65 | 41 Precip: 0.05	17 Actual: 62 | 38 Precip: 0.00 Average: 64 | 41 Precip: 0.05	18 Actual: 60 | 38 Precip: 0.00 Average: 64 | 41 Precip: 0.05	19 Actual: 66 | 38 Precip: 0.00 Average: 63 | 40 Precip: 0.05
20 Actual: 64 | 40 Precip: 0.00 Average: 63 | 40 Precip: 0.05	21 Actual: 65 | 38 Precip: 0.00 Average: 62 | 40 Precip: 0.05	22 Actual: 68 | 40 Precip: 0.00 Average: 62 | 39 Precip: 0.05	23 Actual: 68 | 41 Precip: 0.00 Average: 62 | 39 Precip: 0.04	24 Actual: 69 | 41 Precip: 0.00 Average: 61 | 39 Precip: 0.05	25 Actual: 69 | 41 Precip: 0.00 Average: 61 | 38 Precip: 0.05	26 Actual: 70 | 40 Precip: 0.00 Average: 60 | 38 Precip: 0.06
27 Actual: 74 | 43 Precip: 0.00 Average: 60 | 38 Precip: 0.05	28 Actual: 70 | 52 Precip: T Average: 59 | 37 Precip: 0.05	29 Actual: 55 | 45 Precip: 0.02 Average: 59 | 37 Precip: 0.05	30 Actual: 51 | 40 Precip: 0.11 Average: 58 | 37 Precip: 0.06	31 Actual: 55 | 44 Precip: 0.00 Average: 58 | 36 Precip: 0.05		

Month Precipitation - Actual month total: **0.49** Normal month total: **1.52**

Calendar Key

Sunny / Clear
Mostly Cloudy / Partly Sunny
Mostly Sunny / Partly Cloudy
Cloudy
Rain
Snow
Hail / Flurries
Thunderstorms
Hazy / Fog
Sleet
'?' denotes 'chance of'
Unknown



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Appendix II - 2013 Monitoring Data

APPENDIX II - MONITORING DATA

Storm Event Description

Rainfall data in Table VI.1 is presented for each sampling event during the 2013 reporting period.

TABLE VI.1 – Sampling Event Rainfall Data

Date	Sampling Site(s)	Duration storm event (hrs)	Rainfall Amount (inches)
4/01/13	Forest Dale	9	1.11
4/01/13	Gale Street	7.75	1.37
4/01/13	Lee Drain	8.25	0.75
10/10/13	Forest Dale	2	0.20
10/10/13	Gale Street	2	0.53
10/10/13	Lee Drain	2	0.37

Appendix I – 2013 Weather Data, presents the documentation of climatic conditions during each storm event.

Summary of Wet Weather Monitoring

The outfalls were sampled and results are reported for: storm grab (rising limb), and storm composite samples. Analytical results for constituents are presented in Tables (VI.2 to VI.7).

TABLE VI.2

Lee Drain Grab Sample Results			
Parameter	***Units***	***04/1/13***	***10/10/13***
pH (at time of grab)	pH	8.6	7.9
Oil and Grease	mg/L	0	7
Cyanide, Total	mg/L	0	0

TABLE VI.3

Lee Drain Composite Sample Results			
Parameter (Inorganic)	***Units***	***4/1/13***	***10/10/13***
pH	pH	8.3	7.9
Biochemical Oxygen Demand (BOD)	mg/L	13	0
Hardness, as CaCO3	mg/L	149	170
Total Kjeldahl Nitrogen	mg/L	1	1
Total Nitrogen	mg/L	1.5	1.5
Phosphorus, Dissolved	mg/L	0	0.14
Phosphorus, Total	mg/L	0.16	0.25
Solids, Total Dissolved (TDS)	mg/L	696	712
Solids, Total Suspended (TSS)	mg/L	132	66
Parameters (Metals)	***Units***		
Cadmium, Total	mg/L	0.0003	0.0003
Copper, Total	mg/L	0.0181	0.0149
Lead, Total	mg/L	0.0062	0.0032
Mercury, Total	mg/L	0.0002	0
Selenium, Total	mg/L	0.0025	0.003
Zinc, Total	mg/L	0.05	0.05

TABLE VI.4

Forest Dale Grab Sample Results			
Parameter	***Units***	***4/1/13***	***10/10/13***
pH (at time of grab)	pH	8.5	7.7
Oil and Grease	mg/L	18	0
Cyanide, Total	mg/L	0.02	0

TABLE VI.5

Forest Dale Composite Sample Results			
Parameter (Inorganic)	***Units***	***4/1/13***	***10/10/13***
pH	pH	7.9	7.5
Biochemical Oxygen Demand (BOD)	mg/L	27	19
Hardness, as CaCO3	mg/L	71	95
Total Kjeldahl Nitrogen	mg/L	3	2
Total Nitrogen	mg/L	1.4	2.6
Phosphorus, Dissolved	mg/L	0	0.15
Phosphorus, Total	mg/L	0.18	0.26

Solids, Total Dissolved (TDS)	mg/L	252	56
Solids, Total Suspended (TSS)	mg/L	246	92
Parameters (Metals)	***Units***		
Cadmium, Total	mg/L	0.0002	0.0004
Copper, Total	mg/L	0.0435	0.0191
Lead, Total	mg/L	0.0254	0.0076
Mercury, Total	mg/L	0	0
Selenium, Total	mg/L	0.0005	0.0007
Zinc, Total	mg/L	0.19	0.07

TABLE VI.6

Gale Street Grab Sample Results			
Parameter	***Units***	***4/1/13***	***10/10/13***
pH (at time of grab)	pH	8.0	7.7
Oil and Grease	mg/L	17	0
Cyanide, Total	mg/L	0.033	0

TABLE VI.7

Gale Street Composite Sample Results			
Parameter (Inorganic)	***Units***	***4/1/13***	***10/10/13***
pH	pH	8.1	7.6
Biochemical Oxygen Demand (BOD)	mg/L	21	17
Hardness, as CaCO3	mg/L	94	201
Total Kjeldahl Nitrogen	mg/L	4	3
Total Nitrogen	mg/L	4.5	4.2
Phosphorus, Dissolved	mg/L	0.37	0.10
Phosphorus, Total	mg/L	0.37	0.63
Solids, Total Dissolved (TDS)	mg/L	10600	204
Solids, Total Suspended (TSS)	mg/L	238	228
Parameters (Metals)	***Units***		
Cadmium, Total	mg/L	0.0006	0.0006
Copper, Total	mg/L	0.0521	0.0411
Lead, Total	mg/L	0.00421	0.0332
Mercury, Total	mg/L	0	0
Selenium, Total	mg/L	0.0008	0.0016
Zinc, Total	mg/L	0.22	0.19

Storm Grab Results Summary:

Grab samples were taken during 2013 for the spring and fall event and are taken on the rising limb of the hydrograph. The grab samples taken at Gale Street and Forest Dale indicated relatively no change from the 5 year average in oil and grease and a cyanide.

Composite Sample Results Summary:

Composite samples were taken in 2013, during spring and fall storm event at various points throughout the storm and on the hydrograph. The sampling results generally had lower levels of constituent concentrations than previous years. The major exception is the spring storm event at Gale Street. The Total Dissolved Solids (TDS) returned with a result of 10,600 mg/l. This is a significant increase. The high amount of salt and other sediment on the roadway due to snow melt may have contributed to the elevated TDS.

Event Mean Concentrations

Annual Event Mean Concentrations (EMCs) for constituents are calculated for each constituent for each outfall. To calculate an EMC, the calculated loading per event for each of the sampled storms is summed and divided by the total volume for the sampled events and converted to milligrams per liter.

Annual Event Mean Concentrations (EMCs) were calculated for each outfall, representing an EMC for specific land uses. This analysis provides information regarding the effect of land use within a basin on stormwater quality. Table AII.2 shows the annual EMC's for each land use and Citywide.

TABLE AII.1 Storm Event Loads

Date	Station	Land Use	Event Volume (acre-ft)	Total Suspended Solids (lbs)	Total Phosphorus (lbs)	BOD5 (lbs)	Total Copper (lbs)	Total Lead (lbs)	Total Zinc (lbs)
4/8/2009	JOR 8.32	Mixed	10.47	2,676.42	8.54	427.09	0.48	0.31	1.99
	MIL 2.60	Residential	25.24	4,531.78	13.73	343.32	0.89	0.39	2.75
9/30/2009	JOR 8.32	Mixed	13.54	4,565.42	15.83	773.18	1.48	1.26	5.52
	LED 1.87	Industrial	131.25	37,127.01	107.10	0.00	6.00	1.71	17.85
	MIL 2.60	Residential	37.06	9,878.76	32.26	1,209.64	1.84	1.06	7.06
4/21/2010	JOR 8.32	Mixed	7.22	7,717.04	15.71	903.27	1.32	1.17	7.46
	LED 1.87	Industrial	51.56	27,488.27	70.12	1,542.71	4.60	1.73	16.83
	MIL 2.60	Residential	22.02	26,894.14	53.91	2,635.51	3.82	2.91	19.17
10/23/2010	JOR 8.32	Mixed	4.33	1,354.90	5.66	341.67	0.44	0.26	1.77
	MIL 2.60	Residential	22.56	6,258.60	38.66	2,822.50	2.23	0.79	9.20
10/5/2011	JOR 8.32	Mixed	49.63	15,254.89	43.20	1,619.99	2.73	2.19	10.80
	LED 1.87	Industrial	179.68	56,693.49	127.07	2,443.68	6.40	2.35	24.44
	MIL 2.60	Residential	62.30	20,505.52	33.89	847.34	2.12	1.75	8.47
4/11/2012	JOR 8.32	Mixed	12.27	6,075.45	17.69	867.92	1.20	0.87	6.01
	LED 1.87	Industrial	43.75	15,231.59	36.89	0.00	1.74	0.74	9.52
	MIL 2.60	Residential	15.04	6,299.50	19.23	1,104.46	1.10	0.57	5.32

Date	Station	Land Use	Event Volume (acre-ft)	Total Suspended Solids (lbs)	Total Phosphorus (lbs)	BOD5 (lbs)	Total Copper (lbs)	Total Lead (lbs)	Total Zinc (lbs)
10/12/2012	JOR 8.32	Mixed	12.27	7,744.53	22.70	934.68	1.45	1.03	7.34
	LED 1.87	Industrial	43.75	9,995.73	33.32	594.98	1.64	0.46	7.14
	MIL 2.60	Residential	42.43	10,502.58	36.93	2,192.85	1.93	1.28	10.39
4/1/2013	JOR 8.32	Mixed	24.73	16,006.47	24.88	1,412.34	3.50	2.83	14.80
	LED 1.87	Industrial	117.18	42,073.88	51.00	4,143.64	5.77	1.98	15.94
	MIL 2.60	Residential	59.62	39,891.97	29.19	3,243.25	7.05	4.12	30.81
10/10/2013	JOR 8.32	Mixed	9.57	5,932.10	16.39	442.31	1.07	0.86	4.94
	LED 1.87	Industrial	57.81	10,378.22	39.31	0.00	2.34	0.50	7.86
	MIL 2.60	Residential	10.74	2,688.10	7.60	409.06	0.56	0.22	2.05

TABLE AII.2 Annual Event Mean concentration Results

Year	Constituent	Forest Dale Residential	Lee Drain Industrial	Gale Street Mixed	Annual Salt Lake City EMC
2009	Total Suspended Solids (mg/L)	37.39	104.01	110.93	99.35
2010		273.45	196.03	288.79	238.03
2011		121.02	116.02	113.02	116.57
2012		107.50	106.02	207.03	121.15
2013		222.52	110.21	235.24	153.80
2009	Total Phosphorus (mg/L)	0.71	0.30	0.37	0.30
2010		0.76	0.50	0.68	0.63
2011		0.20	0.26	0.32	0.26
2012		0.36	0.30	0.61	0.36
2013		0.19	0.19	0.44	0.22
2009	BOD_5 (mg/L)	17.58	0.00	18.39	4.65
2010		45.02	11.00	39.63	28.15
2011		5.00	5.00	12.00	6.19
2012		21.10	2.50	27.00	12.35
2013		19.09	8.71	19.89	12.69
2009	Total Copper (mg/L)	0.02	0.02	0.03	0.02
2010		0.05	0.03	0.06	0.04
2011		0.01	0.01	0.02	0.01
2012		0.02	0.01	0.04	0.02
2013		0.04	0.02	0.05	0.03
2009	Total Lead (mg/L)	0.00	0.00	0.02	0.01
2010		0.03	0.01	0.05	0.02
2011		0.01	0.00	0.02	0.01
2012		0.01	0.01	0.03	0.01
2013		0.02	0.01	0.04	0.01
2009	Total Zinc (mg/L)	0.06	0.05	0.12	0.06
2010		0.23	0.12	0.29	0.19
2011		0.05	0.05	0.08	0.06
2012		0.10	0.07	0.20	0.10
2013		0.17	0.05	0.21	0.10

APPENDIX III – PUBLIC EDUCATION PROGRAMS

MEMORANDUM

TO: **Jason Draper**

FROM: **Lisa Hartman**

DATE: **March 19, 2014**

RE: **2013 Annual report**

School Program

The Coalition continued to build upon our goal of educating students about stormwater in a fun and entertaining way. The main cornerstone of the 4th Grade Salt Lake County Water Quality Fair, as well as, a educational DVD, printed educational materials, demonstrations and outreach activities regarding the impact of daily activities on stormwater quality, internet/direct mail requests and other activities that reach school age children.

***Salt Lake County Stormwater Quality Fair 2013*:** The Coalition hosted a two day Water Quality Fair for Salt Lake Valley 4th grade students in May of 2013 at Utah's Hogle Zoo. The Water Quality Fair is geared to educate kids in a fun and entertaining outside classroom. This was the Water Quality Fair's, seventh successful event with over 2,200 fourth graders attending, as well as 300 adult chaperones.

Fourth graders attended from the following cities: Salt Lake City, Sandy City, West Valley City and Draper City. All participants visited 13 booths designed to educate about stormwater pollution and prevention and other water topics. In addition, all 2,500 guests received printed materials designed to reinforce the principals learned at the water fair.

This was the second year that Salt Lake City designed and hosted a booth centered on a beanbag toss as a tool to educated students about Stormwater. For a second year in a row the SLC Stormwater booth was one of the most popular at the 2013 Fair.

In 2014, the Water Quality Fair will continue to host schools from the current cities as listed above, but continue to extend recruitment to additional schools in Salt Lake City, as well, as, other areas of the County.

KSL Weather Lab Project 2013: *KSL Weather Lab is hosted by two local weather personalities at the Discovery Gateway.* Over 3,000 children from Salt Lake County, ages 7 through 11, learn about the effects of stormwater pollution. In addition, they receive Coalition educational materials and fun leave behinds to take home and share with their family members. Salt Lake County elementary school children visit the "Weather Lab" twice a week during the months of March, April, May, September and October 2013.

Dr. Strangewater and the Downstream Deputies DVD: The Coalition continues to distribute an educational DVD geared toward elementary school age children, specifically 4th grade students. The DVD entitled "Dr. Strangewater and the Downstream Deputies" educates students about stormwater in a fun and wacky way, giving them valuable tips on keeping stormwater clean.

Strangewater and the Downstream Deputies Activity Book: The activity book is an 8-page stormwater educational booklet designed to supplement and reinforce the key messages from the DVD, in similar fun and wacky delivery. Children are presented with activities that include, but not limited to word searches, crossword puzzles and fill in the blanks. The activity books continue to be distributed countywide.

Urban Stew: The purpose of the Urban Stew presentation is to provide students with information regarding the sources and impacts of pollutants to stormwater. The presentation is a fun, visual presentation geared for elementary age children. While this presentation is available to schools, no requests were received during 2013 due in large part to our Water Quality Fair held in May. It is anticipated that the Urban Stew presentations will diminish and be phased out due in large part to the Water Quality Fair in May.

High School Mentor: This program provides training for high school students in order to make the Urban Stew presentation to 4th graders. This program is available upon request; no requests were received during 2013.

General Public Education Program

In addition to the educational programs developed for schools, the Coalition has developed other stormwater education components for the general public. Below is a summary of the activities conducted during 2013:

Droplet Character: In 2008, the Coalition updated and refreshed the look of our brand identity, the *'Droplet character'*. Droplet has and continues to be the identifiable character in conjunction with our *'We All Live Downstream'* slogan for the Stormwater

Public Education Program. We will continue to use them both in all new printed and produced piece, as well as, all electronic media.

Spring & Fall 2013 Media Campaign: The Coalition, with the assistance of a consultant conducted a mass media campaign designed to reach a broad audience with the message of preventing stormwater pollution. The Coalition partnered with two of the top-rated TV stations in the Salt Lake County market in 2013. As a result, we were able to conduct the following activities during the spring and fall of 2013:

* **Television**

  Spring Campaign: A three-week television campaign ran the Coalition Spots during the months of May and June 2013 as part of our partnership with two local TV stations. The Coalition purchased and ran over 135 spots in News and primetime. The spots reached over 1.8 million viewers a minimum of 3 times during the three-week period. In general it takes a viewer three times to see a message before they incorporate the given message into their daily routine.

  In addition to the Coalition's paid advertising, our partnering TV stations matched the Coalition's media buy with an additional 135 spots that ran during the months of June, July and August 2013. This translates into over 1.5 million viewers seeing our spot an additional frequency of 3+ times during the summer months. By forging a partnership with the two stations we were able to leverage our $100,000 budget to double our advertising to well over 200,000. In addition, we were able to gain free press with coverage of the Water Quality Fair, a priceless value to the success of the campaign.

  Fall Campaign: A two-week television campaign ran in September/October 2013 as part of Coalition's T.V. partnership. The County purchased and ran over 57 paid spots in News and Primetime. The Fall Campaign translated into over 1,000,000 viewers seeing our commercial a minimum of three times during September and October 2013.

  Live Location Shots on Local News Programming: As part of the partnership package, both local TV Partnership stations produced and ran news story about the Salt Lake County Water Quality Fair on May 2013. One local station had their Daytime TV Personality host 4 remote live shots from the Fair showcasing numerous booth activities with Salt Lake County 4th grade students actively participating, learning about stormwater in a fun, entertaining way. The live remotes were seen by over 140,000 viewers who saw our stormwater message over 3+ times as a result of the two live shots, news teasers and actual running of our spot during the news coverage.

Internet Advertising with local TV Partners

A teaser, coalition border ad and internet link to our Coalition website was placed on two local TV websites during the months of May, June, July, August, September and October 2013. Between the two websites our advertisement received over 185 million hits between both stations over a one-month period. Each station estimates that on a monthly basis over 100,000 new viewers logged-on and viewed our advertisement during the 6 months noted above. We anticipate that as the way people view media changes we will expand this area of advertising to reach traditional TV viewers who now seek their information via the Internet. One of our local partners produced :05 tip ads that ran during newscasts, over a six-month period between May – October 2013. All spots highlighted a stormwater tip to keep stormwater clean. In addition, a ticker ad ran during the ¼ part of the newscast in over 40 newscasts. All priceless in there value as people are in an information seeking mode when watching the news along with the authority that comes from running during a newscast.

Educational Collateral Materials: These materials are designed to promote and educate the community at large about stormwater quality issues. These materials include information as well as items designed to promote the stormwater program, and are primarily obtained through the Salt Lake County Stormwater Coalition.

Bilingual educational printed materials: The Coalition distributed county-wide over 3,500 copies to Spanish speaking residents about stormwater prevention and pollution.

Brochures: Over 1,500 Informational brochures regarding specific activities were distributed throughout the County;

- pet waste disposal
- landscaping
- erosion control
- fresh concrete and mortar application
- paint and household hazardous waste
- household and vehicle maintenance

Lip Balm and Reusable Grocery Bags: In 2013, Lip Balm and Reusable Grocery Bags and travel coffee mugs were produced as leave behinds for giveaways at Public Events and local school distribution. They were a huge

success and we plan to order and distribute in 2014. Five thousand bags and ten thousand lip balms were distributed in Salt Lake County.

In addition to the materials requested from schools throughout the County, the following items listed below were distributed to over 2,200 County residents who requested them via email, our website order form or phone calls during 2013.

- Strangewater DVDs
- Activity Books
- Tabloids
- Spanish Tabloids
- Pencils
- Note pads
- Door hangers
- Book & DVD

Public Events: The Coalition participates in information booths each year. The information booths provide an additional mechanism to reach a larger audience regarding stormwater quality. Informational brochures and "leave behind" items such as pencils and magnets are distributed at the booths. In addition, the information booths provide a forum for the public to respond to and comment on the stormwater program. Over 25,000 Salt Lake County residents were exposed to our message at many public events in 2012. Below is a sampling of the events:

May 2013	Salt Lake County Stormwater Quality Fair
August 2013	Salt Lake County Fair
June 2013	KSL Family Fair

In addition over 50,000 promotional materials were distributed to County residents at these events, which continue to put our message, top of mind long after they have seen us at a public event.

Internet and Social Media: In 2013, our newly designed website was launched. It is designed to act as a resource for residents to contact their municipalities and look for current events in their local cities. In addition, we continue to highlight local, urban areas throughout the County that residents can visit that are affected by stormwater. In 2014 we expect launch the blog component of the website that will allow us to tell a more in depth story about stormwater and its effects on our residents quality of life.

Social Media: Social Media is quickly becoming the top source for residents to access their news, as well as, interact with entities they share a common commitment. In 2012, a Facebook and Twitter page, YouTube channel were set up for the Stormwater Coalition and will become more active following the launch of the new website. These social media components in conjunction with the new website and internet advertising with our local TV Partners have allowed the Coalition to reach our residents at a more in-depth, personal level. Thereby, having more residents buy in to keeping stormwater clean and incorporate recommendations into their daily lives.

Appendix IV - Inspection Data

2013 – Industrial Inspections
2013 – Illicit Discharge Response
2013 – Construction Site Inspections

2013 – Industrial Site Inspections

Business Name	Phone	Address	Contact	State Permit	SIC	Sector	NAICS	Description	Inspection Date	SLC Permit	Issued	Expires
A-1 PIONEER EQUIPMENT LLC	8013284796	2001 N Warm Springs	Doug Bagley	NEC	7922		532490	TRUCK, INDUSTRIAL, RENTAL OR LEASING	7/1/2013	NEC	NEC	NEC
ALUMASTEEL MANUFACTURING	8019738600	3855 W 700 S	Ryan Norton	UTR000969	3441	AA	332312	PRIMARY METAL MFG	3/26/2013	SSID000077	6/11/2010	12/31/2010
ARBOR CARE/ARBOR SCAPE AND ARBOR PELLET LLC	8019728733	3268 W 900 S	Brian Getzelman	NEC	783		561730	LANDSCAPE & HORTICULTURAL SERVICES	3/25/2013	NEC	NEC	NEC
BOEING COMPANY	8015376400	1215 N 2200 W	BLAKE IZATT	UTR000187	3728	AB	336411	TRANSPORTATION EQUIPMENT MFG	4/3/2013	SSID000047	7/12/2011	12/31/2014
BOEING COMPANY-NORTHPORT BUILDING		760 N 200 W	BLAKE IZATT	UTR259439	3728	AB	336411	TRANSPORTATION EQUIPMENT MFG	4/3/2013	SSID000078	4/3/2013	12/31/2014
BURBIDGE CONCRETE PUMPING LLC	8014330485	911 S Rio Grande	Rick Adams	UTR264097	4214	P	484210	CONCRETE CONTRACTORS	3/5/2013		6/26/2013	12/31/2013
CREAM O'WEBER DAIRY INC	8019739922	1658 S 4370 W	Pete Cresci	UTR000729	2026	U	311511	DAIRY PRODUCT MFG	8/27/2013	SSID000030	7/15/2011	12/31/2015
DAIRY FARMERS OF AMERICA INC	8019113060	1140 S 3200 W	Brad Schweitzer	UTR000980	4212	P	484110	GENERAL FREIGHT TRUCKING LOCAL	9/5/2013	SSID000089	12/27/2013	12/31/2018
Deseret Transportation	801-240-4137	5405 W 300 South	Steven Roberts	NEC	8661	P	813110	Truck and storehouse facility	4/9/2013	SSID000022	NEC	NEC
DIVERSIFIED METAL SERVICES INC	8019726093	2845 W 900 S		NEC	3499		332	FABRICATED METAL PRODUCT MFG	5/20/2013	NEC	NEC	NEC
MAY FOUNDRY & MACHINE COMPANY	8015318931	454 W 600 N	Mike May	UTR000558	3325	F	331513	PRIMARY METAL MFG	4/29/2013	SSID000008	1/12/2012	12/31/2016
EASTON TECHNICAL PRODUCTS INC	8015391400	5040 W Harold Gatty	Marc Greeley	UTR000149	3949	F	339920	FABRICATED METAL PRODUCT MFG	5/3/2013	SSID000015	1/1/2012	12/31/2016
WASTE MANAGEMENT	8012500555	6976 W California	Patrick Craig	UTR000553	4953	L	562212		12/13/2013	SSID000018	7/1/2011	12/31/2017
SALT LAKE CITY CORPORATION P.U. SHOPS	8014836706	1530 S JEFFERSON ST	MARK NOBLE	UTR000961	4212	P			9/16/2013			
GREYHOUND LINES WESTERN DIV	8013640141	300 S 600 W	BRADLEY CHATTERTON	UTR001052	4131	P	485210	BUS & OTHER MOTOR VEHICLE TRANSIT SYSTEMS	1/28/2013	SLISW1004	12/27/2010	12/31/2013
INTERMOUNTAIN RIGGING AND HEAV	8019725581	961 S Pioneer		UTR263727	4214		4218	MACHINERY, EQUIPMENT & SUPPLIES WHSLE	5/23/2013		5/28/2013	12/31/2013
MAGNUSON METALS LLC	8019548355	1215 S Pioneer	Mark Magnuson	UTR264079	3499		332	FABRICATED METAL PRODUCT MFG	5/14/2013		6/25/2013	12/31/2015
MARKO FOAM PRODUCTS INC	8019721354	2940 W Directors	Robert Brown		5113		326	PLASTICS & RUBBER PRODUCTS MFG	6/10/2013			
MEADOW GOLD DAIRIES	8019732409	3730 W 1820 S	Ken Langford	UTR000060	2026	U	311511	DAIRY PRODUCT MFG	8/26/2013	SSID000035	8/4/2011	12/31/2017
METECH RECYCLING	8018863022	2350 W Bridger	Boris Thurnher	UTR001043	5093	N	423930	Waste recovery facilities	2/25/2013	SSID000072	10/12/2012	12/31/2017
METRO GROUP INC	8013282051	401 W 900 S	Lee Twitchell	UTR000339	5093	N	423930	SCRAP MATERIALS, MERCHANT WHOLESALER	3/15/2013	SSID000046	1/1/2013	12/31/2017
METRO GROUP, INC.	8013282051	3150 W 900 S	Lee Twitchell	UTR262307	5093	N	42393	METAL SCRAP AND WASTE MERCHANT WHOLESALER; MOTOR FRIEGHT TRANSPORTATION	3/15/2013	SSID000073	12/12/2012	12/31/2017
MIDWESTERN FABRICATORS INC	8014033379	1235 S Pioneer	Dave Bevan	UTR264625	3089		3296	FIBERGLASS REINFORCED PLASTIC PRODUCT MFG	5/21/2013	SSID000087	9/3/2013	12/31/2017
NELSON REFINING SYSTEMS	8019722020	1520 S Pioneer		UTR000268	3399	F	331492	SILVER RECOVERY	6/25/2013	SSID000083	6/25/2013	
PACIFICORP ENVIRONMENTAL GADSBY PLANT	8012207619	1359 W North Temple	Travis Larsen	UT0000116	4911	O	221112		5/23/2013	SSID000033	1/1/2012	12/31/2016
PEPSI BOTTLING GROUP, THE	8.01973e+009	3388 W 1987 S	Randy Hall	UTR001059	2086	P	312111	TRANSPORATION AND WAREHOUSE	9/4/2013	SSID000023	7/12/2011	12/31/2015
PREMIER TECH SYSTEMS	8015411316	1881 W North Temple	Dale Totorich/Michael Noreau	UTR000891	3565	AB	333993	Packaging Machinery Manufacturing	4/9/2013	SSID000081	4/9/2013	12/31/2014
SALT LAKE CITY CORP FLEET MGMT	8015356912	325 W 800 S	VAL TANNER	UTR000937	4212	P			3/19/2013			
SALT LAKE CITY CORPORATION WATER RECLAMATION FACILITY	8017994000	1365 W 2300 N	Giles Demke	UT0021725	4952	T	221320		3/19/2013	SSID000001	5/2/2011	12/31/2013

Business Name	Phone	Address	Contact	Data Points	SIC	Sector	NAICS	Description	Inspection Date	SLC Permit	Issued	Expires
OLYMPIA SALES COMPANY	8019724050	1537 S 700 W			2434	W	4213	LUMBER & OTHER CONSTRUCTION MATERIALS WHSLE	4/8/2013			
RM RUBBER & PLASTIC CO INC	8012200101	5115 W 700 S	Robert Royce, Lezlie recieves all emails		3479	AA	332812	PLASTICS & RUBBER PRODUCTS MFG	4/18/2013			
ROCKY MOUNTAIN MACHINE SHOP IN	8019722228	1165 S Pioneer	Mike Busch	NEC	7699		8112	ELECTRONIC & PRECISION EQUIPMENT R&M	5/17/2013	NEC	NEC	NEC
ROCKY MOUNTAIN RECYCLING LLC	8019751820	2950 W 900 S	Jack Erickson	UTR261383	4212	N	562111	SOLID WASTE COLLECTION	4/15/2013	SSID000070	12/31/2012	12/31/2014
SAFETY-KLEEN CORP	8019750742	1066 S Pioneer	Rocky Gray	UTR000344	4953	K	562211	Hazardous waste storage and disposal	2/11/2013	SSID000043	8/12/2011	12/31/2012
SAFETY-KLEEN CORP, RAIL SPUR		300 S MONTEREY	Jason Blaylock / EHS	UTR000634		P		3 Spent Solvent Tanks on the train tracks	2/14/2013			
SALT LAKE CHROME PLATING	8013552864	1050 S Washington	Kevin Theobald	UTR000210	3471	AA	332813	MISCELLANEOUS DURABLE GOODS WHSLE	8/15/2013	SSID000019	7/8/2011	12/31/2015
STAKER & PARSON COMPANIES	8014099332	3313 W Directors	Greg Slaugh / Mark Dalley	UTR000985	3273	E	327320	CONCRETE CONTRACTORS	5/21/2013	SSID000037	8/4/2011	12/31/2015
STANDARD IRON & METAL COMPANY	8019724012	1178 S 500 W	Art Bruner	UTR000577	5093	N	423930	MISCELLANEOUS DURABLE GOODS WHSLE	7/30/2013	SSID000052	1/31/2013	12/31/2017
STAR FOUNDRY AND MACHINE	8019725881	976 S Pioneer	Bill McGrath	UTR258155	3325	F	331513	PRIMARY METAL MFG	9/10/2013	SSID000016	1/1/2012	12/31/2016
STATE BRASS FOUNDRY	8014679461	1400 S State	Kim Archer	UTR258711	3325	F	331513	PRIMARY METAL MFG	2/11/2013	SSID000063	1/20/2012	12/31/2016
STEEL COATINGS INC	8019732510	410 S 2650 W	Lane Lewis		3497	AA	332812	SPECIAL TRADE CONTRACTORS, painting of various sized metal parts	2/14/2013			
SULZER PUMPS US INC	8019739508	3618 W 1820 S	Mark Hays	UTR000484	3561	AB	333911	PUMP & PUMPING EQUIPMENT MFG	10/15/2013	SSID000041	8/9/2011	12/31/2014
TABCO C D PRODUCTS INC	8015950119	940 W 100 S	John Tahbaz	NEC	2841	C	325611	CHEMICAL MFG	2/4/2013	NEC	NEC	NEC
TEAR A PART LLC	8018862345	652 S Redwood	Kristen Brinkerhoff	UTR000771	5015	M	441310	AUTOMOTIVE PARTS, ACCESSORIES & TIRE STORES	7/8/2013	SSID000027	7/18/2011	12/31/2015
TESCO WILLIAMSEN	8019739400	1925 W Indiana	Val Sorensen	UTR000255	3715	AB	336212	TRANSPORTATION EQUIPMENT MFG	8/21/2013	SSID000086	1/28/2010	12/31/2014
THATCHER COMPANY	8019724587	1905 W Fortune	Dave Lindsey	UTR000125	2819	C	325188	CHEMICAL & ALLIED PRODUCTS WHSLE	4/2/2013	SSID000058	12/27/2011	12/31/2016
THATCHER COMPANY	8019724587	1265 S Wallace	Dave Lindsey	UTR000125	2819	C	325188	CHEMICAL MFG	4/2/2013	SSID000058	12/27/2011	12/31/2016
TRI-CARE SERVICES	8013594121	245 S Orange	Leonard Iverson		5261	AD	561730	LANDSCAPING SERVICES	2/4/2013			
UNIVAR USA INC	8013281112	650 W 800 S	KEVIN HOMER	UTR264983	5169	AD	4218	CHEMICAL DISTRIBUTION FACILITY- NON CLASSIFIED FACILITY	5/1/2013	SSID000088	9/5/2013	12/31/2015
USA Industries	8019725124	1291 S Pioneer	Kirk Williams	UTR000072	3496	AA	332618	COMMERCIAL/INDUSTRIAL EQUIP RENTAL & LEASING	7/28/2013	SSID000050	8/25/2011	12/31/2015
Utah Air National Guard	8012452122	765 N. 2200 West	LT. Barry Gorringe	UTR000436	4581	S	488190	Air Refueling and Aircraft de-icing	3/6/2013	SSID000074	12/3/2007	12/31/2017
UTAH MACHINE & MILL SUPPLY	8013642812	1027 N Victoria	Richard Blycker	UTR258335	3556	AA	333294	MACHINERY MFG	8/2/2013	SSID000084	7/25/2013	
UTAH METAL WORKS INC	8013645679	805 W Everett	Donald Lewon	UTR000243	5093	N	423930	PRIMARY METAL MFG	4/18/2013	SSID000082	1/1/2013	12/31/2017
Utah Transit Authority Central Division	8.01869e+00980186902 89	616 W 200 S	Dan Locke	UTR000238	4173	P	488490	BUS OPERATIONS AND MAINTENANCE	9/30/2013	SLISW1011	6/4/2010	12/31/2013
Utah Transit Authority Warm Springs	801-971-7851	900 N 500 W.	Dan Locke	UTR001451	4111	P	485112	LOCOMOTIVE MAINTENANCE AND OPERATIONS	8/19/2013	SLISW1087	6/4/2010	12/31/2013
VARIAN MEDICAL SYSTEMS XRAY PRODUCTS	8019735017	1678 S Pioneer	Jason Kyle	UTR000475	3844	AC	334571	COMPUTER & ELECTRONIC PRODUCT MFG	3/22/2013	SSID000076	12/28/2010	12/31/2014
Salt Lake Valley Solid Waste Management Council	801-975-2367	6030 W California	Thomas Burrup	UTR262375	4953	L	562212		12/13/2013	SSID000017	7/5/2011	12/31/2017
E.T. TECHNOLOGIES, INC	8019732065	6030 W California	Ted Sonnenburg	UTR000024	4953	L	562219	WASTE MANAGEMENT & REMEDIATION SERVICES	6/4/2013	SSID000075	1/1/2013	12/31/2017
YESCO LLC	8014878481	1605 S Gramercy	Paula Cronn	UTR000851	3993	Y	339950	SIGN MFG	7/5/2013	SSID000013	6/24/2011	12/31/2015

2013 – Illicit Discharge Response

Date	Address	SLVHD/City Contact	Company Name	Incident Type		Action Taken	Result
1/3/2013	875 W Everett Avenue	Greg Archuleta/ Jason Draper	Unknown	Investigation	Hydraulic Fluid pallets in Roadway	Investgate	Civil Enforcement
2/12/2013	1229 S 300 West	Greg Archuleta	Schmidt's Auto Body	Discharge	Car washing and sandblasting	Cease and Desist	Cease and Desist
2/19/2013	805 W Everett	Jason Draper / Jeremy Roberts	Utah Metal Works	Discharge	Pumping into stormdrain	Rainwater and snowmelt overflow pumping from containment chambers	Closed Out
3/15/2013	340 N 900 West	Jereremy Roberts/Greg Archuleta	N/A	spill	waste water	Made the responsible person clean up	Clean Up
3/20/2013	1905 W. Fortune Rd	Greg Archuleta	Thatcher Chemical	Spill	ferric-chloride	The spill had been cleaned up by the time SLC was notified and responded (see report)	Clean up
4/22/2013	875 S. 500 West	Greg Archuleta	U of U combustible research	Investigation	Coal Dust	Ordered to clean up area and contain dust	Clean Up
4/23/2013	400 N. main Street	Greg Archuleta	Under ground soulutions	Spill	Motor Oil	Made the responsible person clean up	Clean Up
5/22/2013	443 N. 400 West	Greg Archuleta/Carla Bartholmew	Red Rock Brewing	Discharge	Beer	Ordered to have storm drain and Lateral cleaned out by a professional waste hauler sample taken from S.D.	SLVHD NOV
5/31/2013	400 N 900 W	Greg Archuleta / Jason Medina	Tesoro cement Discharge	Spill	Cement	Move concrete Washout from the street to onsite	Closed out
5/31/2013		Greg Archuleta	A&Z Produce	Discharge	Wash water	Cease and Desist/Clean up on site	Warning letter
5/31/2013	1021 E Hollywood	Greg Archuleta / Jason Draper / John Hogan	SC Construction Handymab	Spill	Drywall primer	Required to clean up drains	Warning letter
6/1/2013	50 S 1000 East	Jason Draper	Salt Lake Regional Medical Center	Discharge	SSO	Cease discharge from boiler room - Repair sewer lateral asap	Cease and Desist
6/5/2013	1500 N 900 W	Jason Draper / Greg Archuleta	N/A	investigation	Hazardous Waste Site	Met with County HD, State HW, State GW, and EPA Duc Nguyen - EPA to do assessment	Pending
6/19/2013	1450 S 2200 E	Jason Draper / Greg Archuleta / Jon Hoggan	B Jackson Co / Mile Hi Drilling	Discharge	Sediment	Clean up and Warning Letter	Warning letter
6/26/2013	257 East 100 south	Greg Archuleta/Jason Draper	CBRE Richard Ellis	investigation	parking lot sump H20	Possible retro fit of parking garage sump to Sanitary Sewer	Closed out
7/3/2013	461 N. 6000 North	Greg Archuleta/Ron Lund	Quality Distribution	Support fire	Hazardous mat. Response	Suppported fire/Hazmat with maps and coordination with distrubution.	Cost Recovery
3/16/2012	900 S 500 West	Greg Archuleta/Kelly Brown	Tesoro	X-Connect	Fuel	Investigate fuel odor from manhole on proerty	Closed
7/9/2013	2377 S Summit Circle	Jason Draper	Silverhawk Enterprises	investigation	Sediment	Investigate report of sediment in the roadway and in the drainage	Closed
7/9/2013	100 West North Temple	Jason Draper / John Hogan	Salt Lake City	Discharge	Propylene Glycol	Vactor Truck sent to clean storm drain inlet at the corner of N Temple and W Temple	Closed
7/5/2013		John Hogan	N/A	Report	Suds	Report of suds in the creek - appears to be organic matter decontamination combined with heat and high flows	Clean up
7/3/2013	825 S. State Street	Greg Archuleta	Epic Brewery	Discharge	Waste Water	ordered to have storm drain and Lateral cleaned out by a professional waste hauler.(warning Letter)	Clean Up
7/26/2013		Greg Archuleta/Jason Draper	Semi-Services	Investigation	Diesel/water	Investigated report no sign of illegal discharge	Closed out
7/26/2013	635 N Billy Mitchell Rd	Greg Archuleta/Jason Draper	Honeyville	Investigation	Vegetable oil	Investigated report no sign of illegal discharge	Closed out
7/26/2013	1716 S. State Street	Greg Archuleta/Jason Draper	New Golden Dragon	Investigation	cooking oil	Investigated report no sign of illegal discharge no discharge to SLC system	Closed out
8/1/2013	391 S. Orange Streer	Greg Archuleta	Asset Management Soulutions	Discharge	Sewer	Shut down contractor US Paving until permits were taken out	Cease and Desist
8/9/2013	660 S 300 E	Greg Archuleta/Jason Draper	JC Testing	Discharge	Sewer	Shut down contracter - SLC crews cleaned Curb and Gutter and vactor Storm Inlet	Cost Recovery
8/24/2013	825 E 2100 S	Kevin Ockelberry / Bob Silverthorne	Norge Village Laundromat	Discharge	Sewer overflow	Business shutdown - Response by SLC Fire and SLCHD	Clean Up
8/27/2013	320 S 500 W	Jason Draper / Kelly Brown	??	Spill	Grease / Oil	Monitor Location - could be food carts dumping	Closed out
9/11/2013	1145 S 700 West	Greg Archuleta/Ryan bagshaw	Oltman Construction	Discharge	Sediment	Shut pumps down ordered to implement de-silting measures and clean street and gutters	Closed out
9/12/2013	1116 S. Sunnyside Ave	Greg Archuleta	Land Design	Stock pile	dirt	ordered to remove stock pile from road	Clean Up
9/12/2013	540 E. 500 S.	Greg Archuleta	SLC Water	Discharge	Sediment	Ordered to clean up and implement BMP in future when de-watering	Clean Up
9/13/2013	1145 S 700 West	Greg Archuleta/Ryan bagshaw	Oltman Construction	Discharge	Sediment	Ordered to clean up and improve de-watering BMP's	NOV
10/8/2013	Same	Greg Archuleta	VIP trailer park	Discharge	Sewage from broken lateral	advised manager to shut water off. And have a waste hauler pump out sewage	Clean Up
10/14/2013	443 W. 400 N.	Greg Archuleta/Carla Bartholmew	Horizon Foods	SSO	FOG from interceptors	Ordered to cleanup ditch and catch basin	Clean Up

Date	Address	SLVHD/City Contact	Company Name	Incident Type	Action Taken	Result	Date
10/16/2013	2000 S State	Jason Draper / Kevin Okleberry	Kenway Container	Spill	Concrete wash water	UDOT cleanup - ordered to respond and report to SLCHD	SLCHD NOV
10/10/2013	Parleys Creek - Mile Marker 31	Jason Draper/Greg Archuleta/Carla Bartholomew	UDOT	Discharge	Concrete	Stopped work - Research location of discharge, additional bmps installed - Referred to SLCHD and Utah State	Closed
10/25/2013	615 E 600 S	Jason Draper / Greg Archuleta / Jeremy	Trolley Square	Discharge	Sewer	Verified correction - Orederd to clean up gutter and catch basin	Warning letter
9/20/2013	700 W 1300 S	Greg Archuleta / Jason Draper / Randy Bullough / Roger Israelson	Conetec	Discharge	Sediment and landscaping debris	Booms in the Jordan river and bags at the inlet to limit exposure	Clean Up
11/18/2013	1444 E Blaine Ave	Greg Arhuleta / Jason Draper / Kevin Okleberry	Ivo Archuleta	Discharge	Concrete	Clean up of gutter and street	Warning letter
11/24/2013	1763 S 300 W	John Hogan	Utah Brewers Cooperation	Discharge	Production Waste	SLCHD Sampled and directed Business to Clean up	Clean Up
12/31/2013	1475 S 2200 E	Jason Draper / Greg Archuleta	Foothill village	Discharge	Culinary water discharge - nuisance and ice	Located source of discharge and require termination of discharge	Closed out

2013 – Construction Site Inspections

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
1/2/2013	IHC Salt Lake Clinic	389 s. 900 east	yes	6	UTR35728	N/A		Project is near completion
1/2/2013	7-Eleven	875 E. 400 South	no	0.5		SW00104		Drive by Ligh work no tracking
1/2/2013	View Street mixed use	1327 E. 2100 south	no	<1	N/A	SW00074	No	Drive by no Activity (snow)
1/2/2013	Uinta Brewing Phase II	1760 So. Freemont Drive	yes	2	UTR361103	SW000	No	Drive by Ligh work no tracking (site stabilized)
1/2/2013	Liberty Gateway Apartments	50 S. 500 West	yes	1.8	UTR361895	SW00106		Drive by Ligh work no tracking
1/2/2013	Ronald McDonald House	935 E South Temple	yes	2	UTR362043	SW00113	No	Drive by Ligh work no tracking
1/2/2013	Broadway Apartments/Eastside Apartments	550 E 300 S	yes	>1	UTR359309	SW00070	No	Drive by Ligh work no tracking
1/3/2013	Boyer Office Building	950 N. 2200 W.	yes	7	UTR359621	SW00076	No	Drive by no Activity (snow)
1/3/2013	Regional Sports Complex	2100 N. Rose Park Ln Salt Lake City	no	183	UTR35461	SW00044	No	Drive by no Activity (snow)
1/4/2013	African Savannah	2600 Sunnyside Ave	yes	5	UTR361559	SW00117	no	Steve Hughes updated BMP map with our last action items
1/4/2013	Hogle Zoo Maintenance and Operations Building	2600 Sunnyside Ave	no	>1	UTR360763	NA	no	NOI is to be transferred to the ZOO to finish stabilizing
1/4/2013	Salt Lake City Public Safety Building	300 E 500 S	yes	5	UTR359769	NA	no	SWPPP is from Old Brand Excavators-previous sub. Current Ex.. Jones has none
1/9/2013	505 Wakara	505 Wakara Way	yes	2.75	UTR360404	SW00087	No	silt fence needs maintenance
1/9/2013	630 Komas	630 Komas Ave	yes	4	UTR360129	SW00080	no	inlet needs to be cleaned on site
1/9/2013	Ronald McDonald House	935 E South Temple	yes	2	UTR362043	SW00113	No	monitor tracking onto road
1/9/2013	Cityscape Apartments	135s 400e	yes	2	UTR361327	SW00099	no	site looks good and is in compliance
1/10/2013	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	No	site needs to develop a SWPPP
1/10/2013	Peter Built	1910 S 5500 W	yes	11	UTR360139	SW00085	no	significant trackout
1/10/2013	Freeport Building #8-10	1730S 5200 West	yes	30	UTR359443	N/A	No	add rock to track out
1/10/2013	Freeport #9	1470 S 5070 W	yes	30	UTR 361379	N/A	No	silt fence is sagging on the NE edge
1/25/2013	UTA demolition site	600 W 200 S	no	>1	NA	NA	NA	unable to see final stability due to snow. demo complete
1/25/2013	Buzz Oates Building	6050 W 700 S	yes		UTR361889	SW00105	no	new signs and SWPPP location installed
1/25/2013	Pete's Diesel	5701 W 700 S	no	3	UTR361267	SW00086	No	SWPPP needs updating. see report on file
1/25/2013	Art Space Solar Gardens	850 S 400 W	yes	2	UTR362047	SW00112	no	SWPPP needs updating. see report on file
1/25/2013	EMJ Metals	450 So 5700 W	NA	6.8	362469	SW00120	no	site just beginning. minor excavation at the time of inspection
1/28/2013	US District Courthouse	350 So. main	yes	1.2	UTR319916	SW00046	No	Site has minor action items.SWPPP in great condition
1/28/2013	State St Plaza	253 So State	yes	1	UTR362001	SW00108	No	SWPPP needs updating. see report on file
2/1/2013	Tesoro Beck Street Grading	474 W 900 N	yes	6	UTR362093	SW00114	no	site looks good and is in compliance. check inlet for gas smell on next insp
2/1/2013	Tesoro Contractor Parking Lot	474 W 900 N	yes	1	UTR361159	SW00097	no	site looks good and is in compliance
2/1/2013	City Station	644 W North Temple	no	1	UTR359007	SW00109	no	housekeeping an issue. see report on file
2/1/2013	Beehive Clothing Mill	3838 W 1820 S	yes		UTR359407	N/A	yes	site 100% stable and ready to file for the NOT
2/1/2013	Food For Health	3250 Professional Circle	yes	5	UTR361647	SW00100	No	inlet protection on Gladiola needs to be replaced
2/1/2013	Tradestar	1590 South Gladiola St	NO	6	UTR362415	SW00123	NO	sweeping of gutter and sidew. needed- see report on file
2/1/2013	Maverick 474	1445 So 3775 W Gustin Way	yes	4	UTR362301	SW00119	no	track out an issue- see report on file
2/5/2013	Hogle Zoo Afican Savannah	2600 Sunnyside Ave						
2/5/2013	Buzz Oates Building	6050 W 700 S	yes		UTR361889	SW00105	no	Verbal Warning for track out and track pad (will follow up 2/6/13)
2/5/2013	Freeport Building #8-10	1730S 5200 West	yes	30	UTR359443	N/A	No	Some moderate tracking talked to Tim Curl add rock and sweep
2/2/2013	Pete's Diesel	5701 W 700 S	no	3	UTR361267	SW00086	No	site ok No Swppp Insp.
2/5/2013	Peter Built	1910 S 5500 W	yes	11	UTR360139	SW00085	no	minor tracking site ok
2/5/2013	Regional Sports Complex	2100 N. Rose Park Ln Salt Lake City	no	183	UTR35461	SW00044	No	Drive by no Activity (snow)

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
2/5/2013	Boyer Office Building	950 N. 2200 W.	yes	7	UTR359621	SW00076	No	site ok No Swppp Insp
2/5/2013	Maverick 474	1445 So 3775 W Gustin Way	yes	4	UTR362301	SW00119	no	Verbal Warning for track out and track pad (will follow up 2/6/13)
2/5/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	UTR360949	no	Meet with Okland and Reynolds to discuss tracking issues
1/25/2013	EMJ Metals	450 So 5700 W	NA	6.8	362469	SW00120	no	meet with Contractor sent SWPPP template (See Report)
2/5/2013	Buzz Oates Building	6050 W 700 S	yes		UTR361889	SW00105	no	Follow up added rock to travk out and streets look better
2/5/2013	Maverick 474	1445 So 3775 W Gustin Way	yes	4	UTR362301	SW00119	no	Follow up added rock to travk out and streets look better
2/7/2013	Buzz Oates Building	6050 W 700 S	yes		UTR361889	SW00105	no	Follow up added rock to travk out and streets look better
2/7/2013	Freeport Building #8-10	1730S. 5200 West	yes	30	UTR359443	N/A	No	Follow up added rock to travk out and streets look better
2/7/2013	Pete's Diesel	5701 W 700 S	no	3	UTR361267	SW00086	No	site ok No Swppp Insp Drive by follow up
2/7/2013	Maverick 474	1445 So 3775 W Gustin Way	yes	4	UTR362301	SW00119	no	Follow up added rock to travk out and streets look better
2/7/2013	Buzz Oates Building	6050 W 700 S	yes		UTR361889	SW00105	no	Follow up added rock to travk out and streets look better
2/7/2013	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	No	Light Tracking de-watering UTG070475 will update site map
2/7/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	UTR360949	no	follow up added rock to travk out and streets look better
2/12/2013	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	No	site visit as folow up site and de-watering good
2/19/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	UTR360949	no	Pulled samples from fraq tanks and Hidden hollow. .3 mg/l fluoride
2/19/2013	630 Komas	630 Komas Dr	no	4	UTR360129	SW00080	no	NOI is to be transferred to the Komas building owners to finish stabilizing
2/19/2013	505 Wakara	505 Wakara Way	yes	2.75	UTR360404	SW00087	No	sweeping of perimeter gutter needed
2/19/2013	Ronald McDonald House	935 E South Temple	yes	2	UTR362043	SW00113	No	site temporarily shut down due to contaminated soil
2/19/2013	Uinta Brewing Phase II	1760 So. Freemont Drive	yes	2	UTR361103	SW000	No	paved. but landscape not in yet. temporary BMPs still in place
2/19/2013	Hidden Peak Electric	1064 S 700 W	yes	1	UTR362453	SW00124	no	minor BMP corrections for inlet protection
2/19/2013	Art Space Solar Gardens	850 S 400 W	yes	2	UTR362047	SW00112	no	track pad needs more rock added
2/20/2013	View Street mixed use	1327 E. 2100 south	no	<1	N/A	SW00074	No	emailed the NOT form for SLC permit to the super
2/20/2013	Nin Tech East	3200 West to Bangerter and Cal. Ave to 1100 So.	N0			SW00016	yes	project is completion
2/25/2013	West Point Business Park Lot 2&3		No			SW00126	No	Project is not started
2/25/2013	Questar Gas Training Facility	2365 W. 900 So.	yes	0.75	N/A	SW00121	No	Needs to do inspection
2/25/2013	Pacific Steel	2850 W. 900 So.	yes	0.75		SW00118	n	No site work at time of inspection
2/25/2013	Mountain View Comm Learning Center	1380 navajo St	yes	< 1	N/A	SW00091	no	Site in compliance
2/27/2013	Salt Lake City Public Safety Building	300 E 500 S	yes	5	UTR359769	NA	no	March 4th 300 E will be closed for construction
2/27/2013	Broadway Apartments/Eastside Apartments	550 E 300 S	yes	>1	UTR359309	SW00070	no	state permit expired. inlets on north and west sides need to be protected
2/28/2013	ATP Building	560 N. 2200 west	yes	6.36	UTR36029	SW00111	no	light tracking
2/28/2013	Art Space Solar Gardens	850 S 400 W	yes	2	UTR362047	SW00112	no	see report
2/28/2013	Regional Sports Complex	2100 N. Rose Park Ln Salt Lake City	no	183	UTR35461	SW00044	No	Drive by no Activity portion of temp moved called Dell cook
3/1/2013	McDonald's Restaurant	935 E South Temple	yes	2	UTR362043	SW00113		washing out in parkstrips
3/1/2013	7-Eleven	875 E. 400 South	no	0.5		SW00104		finishing up. installing landscape
3/1/2013	IHC Salt Lake Clinic	389 s. 900 east	yes	6	UTR35728	N/A		bmps need maintenance
3/1/2013	US District Courthouse	350 So. main	yes	1.2	UTR319916	SW00046		tracking on market street
3/1/2013	Boyer 101 Building	101 S 200 E	no	1.88	UTR362543		no	waiting on code permit from SL Public Utilites. should start within 2 weeks
3/1/2013	Buzz Oates Building	6050 W 700 S	yes		UTR361889	SW00105		heavy tracking
3/1/2013	Pete's Diesel	5701 W 700 S	no	3	UTR361267	SW00086		inlet protection needed maintenance
3/1/2013	Freeport Building #8-10	1730S. 5200 West	yes	30	UTR359443	N/A	no	drive by- tracking under control with sweep trucks actively sweeping
3/1/2013	Freeport #9	1470 S 5070 W	yes	30	UTR 361379	N/A	no	drive by- tracking under control with sweep trucks actively sweeping
3/8/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	UTR360949	no	site inspection site ok

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
3/8/2013	Peter Built	1910 S 5500 W	yes	11	UTR360139	SW00085	no	minor tracking site ok
3/8/2013	Liberty Village	2150 S. McClelland St	yes	1.48	UTR362571	SW00128	No	project just starting swppp on file
3/12/2013	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	No	site super fufilled all previous inspection requirements
3/12/2013	African Savannah	2600 Sunnyside Ave	yes	5	UTR361559	SW00117	no	need to review water testing - super did not know how to access
3/12/2013	505 Wakara	505 Wakara Way	yes	2.75	UTR360404	SW00087	No	minor housekeeping needed
3/12/2013	State St. Plaza	253 So State	yes	1	UTR362001	SW00108	No	SWPPP looks good and is up to date
3/14/2013	McDonald's Restaurant	935 E South Temple	yes	2	UTR362043	SW00113	yes	Project complete NOT
3/14/2013	Uinta Brewing Phase II	1760 So. Freemont Drive	yes	2	UTR361103	SW000	No	Bldg complete final stabilization not done yet
3/15/2013	EMJ Metals	450 So 5700 W	NA	6.8	362469	SW00120	no	No one on site at time of Insp. Site and controls very good
3/15/2013	Maverick 474	1445 So 3775 W Gustin Way	yes	4	UTR362301	SW00119	no	Sweep Gutters and add rock to track out pads
3/15/2013	Pete's Diesel	5701 W 700 S	no	3	UTR361267	SW00086	No	doing landscaping at time of inspection
3/15/2013	Questar Gas Shop/Warehouse	270 S. Orange St	No	3	UTR362679	SW00122	No	No one on site at time of Insp. Site and controls ok for now
3/15/2013	Housing project	1700 S. 900 E.	n	<1	N/A	N/A	No	Russ Brown (801) 695-0389 is contact for concerns
3/19/2013	Tradestar	1590 South Gladiola St	NO	6	UTR362415	SW00123	NO	sweeping of gutter and sidew needed- see report on file
3/19/2013	Food For Health	3250 Professional Circle	yes	5	UTR361647	SW00100	No	inlet protection needed on Gladiola
3/19/2013	Tesoro Beck Street Grading	474 W 900 N	yes	6	UTR362093	SW00114	no	site looks good and is in compliance- move to monthly inspections
3/19/2013	Tesoro Substation Lot	474 W 900 N	yes	1	UTR361159	SW00097	no	site looks good and is in compliance
3/19/2013	Liberty Gateway Apartments	50 s 500 West	no	>1	NA	SW00106	No	site needs good housekeeping. sig. sediment in the road
3/26/2013	Boyer 101 Building	101 S 200 E	no	1.88	UTR362543		no	no construction activities yet
3/26/2013	Salt Lake City Public Safety Building	300 E 500 S	yes	5	UTR359769	NA	N	site looks good and is in compliance
3/26/2013	Broadway Apartments/Eastside Apartments	550 E 300 S	yes	>1	UTR359309	SW00070	No	various inlets on site need protection added. permit still expired
3/26/2013	Cityscape Apartments	135s 400e	yes	2	UTR361327	SW00099	N	site looks good and is in compliance
3/26/2013	Lakeside Building #2	5355 W Yeagar Road	no	2	UTR361111	SW00096	no	temporary BMPs still in place. silt fence. dirt ramp. stockpiles etc.
3/28/2013	Art Space Solar Gardens	850 S 400 W	yes	2	UTR362047	SW00112	no	SWPPP looks good and is up to date. curb cutback needed to the N
3/28/2013	Hidden Peak Electric	1064 S 700 W	yes	1	UTR362453	SW00124	no	inlet protection needs maintenance
4/4/2013	State St. Plaza	253 So State	yes	1	UTR362001	SW00108	N	Drive by rain event inspection-no tracking
4/4/2013	Ronald McDonald House	935 E South Temple	yes	2	UTR362043	SW00113	N	Drive by rain event inspection-no tracking
4/4/2013	Broadway Apartments/Eastside Apartments	550 E 300 S	yes	>1	UTR359309	SW00070	N	Drive by rain event inspection-no tracking
4/4/2013	IHC Salt Lake Clinic	389 s. 900 east	yes	6	UTR362735	N/A	N	Drive by rain event inspection-moderate tracking
4/4/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	SW00092	N	Drive by rain event inspection-minor tracking
4/4/2013	Liberty Gateway Apartments	50 s 500 West	no	>1	NA	SW00106	N	Drive by rain event inspection-moderate tracking/good housekeeping issues
4/4/2013	Housing project	1700 S. 900 E.	n	<1	N/A	N/A	N	Drive by rain event inspection- dirt pile on driveway above inlet on corner
4/4/2013	Tradestar	1590 South Gladiola St	NO	6	UTR362415	SW00123	N	Drive by rain event inspection-moderate tracking/track pad needs rock
4/4/2013	Food For Health	3250 Professional Circle	yes	5	UTR361647	SW00100	N	Drive by rain event inspection-moderate tracking/ track pad needs rock
4/4/2013	Liberty Village	2150 S. McClelland St	yes	1.48	UTR362571	SW00128	N	Drive by rain event inspection- moderate tracking/track pad needs rock
4/4/2013	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	N	Drive by rain event inspection-no tracking
4/15/2013	505 Wakara	505 Wakara Way	yes	2.75	UTR360404	SW00087	n	sweeping and perimeter sediment control needed
4/15/2013	Hogle Zoo Afican Savannah	2600 Sunnyside Ave	no	>1	UTR360763	NA	n	monitoring from de-watering has not been taking place. previous action items not completed
4/18/2013	Peter Built							Dirt in gutter respond with photos by Monday4/22/13
4/18/2013	Pete's Diesel							not ready for NOT permit expired
4/18/2013	EMJ Metals							Site Very Good
4/18/2013	Buzz Oates Building							Drive by looked ok but needs full SWPPP insp.

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
4/18/2013	Geneva Rock Products						yes	Site good.
4/18/2013	Broadway Apartments/Eastside Apartments	550 E 300 S	yes	>1	UTR359309	SW00070	no	state permit still expired (2 months) storm inlet maintenance
4/18/2013	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	no	inlet on 900w needs hole in back of curb protected
4/18/2013	Liberty Village	2150 S McClelland St	yes	1.48	UTR362571	SW00128	no	SWPPP looks good, moderate tracking that is swept daily
4/18/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	SW00092	no	multiple curbs on site that need to be maintained
4/18/2013	IHC Salt Lake Clinic	389 s. 900 east	yes	6	UTR362735	N/A	no	Site good
4/22/2013	Food For Health	3250 Professional Circle	yes	5	UTR361647	SW00100	no	de-watering without a permit
4/22/2013	Tradestar	1590 South Gladiola St	NO	6	UTR362415	SW00123	no	site looks good, keep eye on north site exit
4/22/2013	Maverick 474	1445 So 3775 W Gustin Way	yes	4	UTR362301	SW00119	no	finishing up, will pave and install landscape by mid next week
4/22/2013	Liberty Village	2150 S McClelland St	yes	1.48	UTR362571	SW00128	no	site a mess for housekeeping. Greg A. followed up in person
4/22/2013	Hidden Peak Electric	1064 S 700 W	yes	1	UTR362453	SW00124	no	stopped by to talk to Jeremy about inlet protection in gutter -no gravel bags
4/24/2013	Columbus Court PUD	34 East Columbus Court (750) north	yes	4	UTR359517	SW00127	no	BMP maintenance, removal of old silt fences
4/24/2013	Liberty Gateway Apartments	50 s 500 West	no	>1	NA	SW00106	N	Follow up
4/29/2013	Sportsman Warehouse	1730 S 5200 W	yes		UTR363191	SW00135	N	initial site visit - 4/29/13
4/29/2013	The State St. Plaza	253 So State	yes	1	UTR362001	SW00108	N	neighboring fire line testing is getting water in construction pit
4/29/2013	US District Courthouse	350 So. main	yes	1.2	UTR319916	SW00046	N	Site in compliance- sidewalk closures to begin May 1
4/29/2013	City Station	644 W. North Temple	no	1	UTR359007	SW00109	N	good housekeeping action items.inlet protection in disrepair or missing
4/29/2013	Salt Lake City Public Safety Building	300 E 500 S	yes	5	UTR359769	NA	N	south perimeter in need of maintenance
4/29/2013	Freeport #9	1470 S 5070 W	yes	30	UTR 361379	N/A	N	significant amount of sediment on sidewalk
4/29/2013	Freeport # 6	1730S. 5200 West	yes	30	UTR359443	N/A	N	site in compliance
5/2/2013	Art Space Solar Gardens	850 S 400 W	yes	2	UTR362047	SW00112	N	more controls needed for batch machine. track pad needed refreshed
5/2/2013	Tesoro Beck Street Grading	474 W 900 N	yes	6	UTR362093	SW00114	N	site in compliance
5/2/2013	Tesoro Substation Lot	474 W 900 N	yes	1	UTR361159	SW00097	N	site in compliance
5/2/2013	ATP Building	560 N 2200 west	yes	6.36	UTR36029	SW00111	N	site in compliance
5/2/2013	Boyer 101 Building	101 S 200 E	no	1.88	UTR362543	SW00132	N	building ramp for sidewalk closure on 200 E. foundation excavation
5/4/2013	Pete's Diesel	5701 W 700 S	no	3	UTR361267	SW00086	No	Not ready for NOT permit expired. Will give till 5/10/13 to finish Landscape or re permit
5/4/2013	Buzz Oates Building	6050 W 700 S	yes		UTR361889	SW00105		Site ok SWPPP needs updating
5/4/2013	Maverick 474	1445 So 3775 W Gustin Way	yes	4	UTR362301	SW00119	no	Open partial C of O landscaping and final paving site ok
5/4/2013	A-1 Radiator	5630 W. 700 South	yes	1.3	UTR362697	SW00133	No	No activity cont. setting up job trailer site visit only no formal Insp.
5/4/2013	EMJ Metals	450 So 5700 W	NA	6.8	UTR362469	SW00120	no	drive by site in compliance.
5/6/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	SW00092	N	Site in compliance @time of Insp. Const. de-watering
5/6/2013	Parley's trail	1700 E & I-80	No		UTR3633037	SW00134	N	final grading will be finished by week 22nd
5/6/2013	Broadway Apartments/Eastside Apartments	550 E 300 S	yes	>1	UTR359309	SW00130		Job Complete NOT filled
5/8/2013	Hogle Zoo African Savannah	2600 Sunnyside Ave	yes	5	UTR361559	SW00117	no	site in compliance
5/8/2013	Hogle Zoo R.S. Water Playground	2600 Sunnyside Ave	no	>1		SW00137	no	small site. in compliance
5/8/2013	505 Wakara	505 Wakara Way	yes	2.75	UTR360404	SW00087	no	demolition this week . hauling away demo materials next week
5/8/2013	630 Komas	630 Komas Dr	no	4	UTR360129	SW00080	no	landscaping, laying sod. Not ready for NOT
5/8/2013	Ronald McDonald House	935 E South Temple	yes	2	UTR362043	SW00113	no	needed more rock on track pad
5/8/2013	Uinta Brewing Phase II	1760 So. Freemont Drive	yes	2	UTR361103	SW000115	No	Bldg complete final stabilization not done yet
5/8/2013	Questar Gas Shop/Warehouse	270 S. Orange St.	No	3	UTR362679	SW00122	No	No one on site at time of Insp. Site and controls ok for now.
5/10/2013	Salt Lake City Public Safety Building	300 E 500 S	yes	5	UTR359769	NA	N	south perimeter in need of maintenance
5/10/2013	Regional Sports Complex	2100 N. Rose Park Ln Salt Lake City	no	183	UTR35461	SW00044	No	Drive by no Activity

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
5/13/2013	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	no	inlet on 900w needs hole in back of curb protected
5/13/2013	505 Wakara	505 Wakara Way	yes	2.75	UTR360404	SW00087	no	demolition this week . hauling away demo materials next week
5/13/2013	Pete's Diesel	5701 W 700 S	no	3.7	UTR361267	SW00086	yes	Job Complete NOT filled
5/13/2013	A-1 Radiator	5630 W. 700 South	yes	1.3	UTR362697	SW00133	No	Talked to excavator will start grading week of the 15th
5/13/2013	Mountain View Comm Learning Center	1380 navajo St	yes	< 1	N/A	SW00091	no	Site in compliance
5/14/2013	Maverick 474	1445 So 3775 W Gustin Way	no	4	UTR362301	SW00119	yes	Final Not filled email to Jeff Herrick of R&O
5/14/2013	Boyer Office Building	950 N. 2200 W		7	UTR359621	SW00076	n	Not Ready for NOT follow up 5/17/13
5/14/2013	ATP Building	560 N. 2200 west	yes	6.36	UTR36029	SW00111	N	Not Ready for NOT follow up 5/17/13
5/14/2013	Pacific Steel	2850 W. 900 So.	yes	<1	N/A	SW00118	n	Talked to excavator super was not on site. at time of insp.
5/14/2013	630 Komas	630 Komas Dr	no	4	UTR360129	SW00080	no	grout inlets before final follow up 5/16/13
5/22/2013	Malcolm Drilling	791 S Gladiola St	yes	3	UTR360936	SW00088	No	erosion control needed in drainage basin along Gladiola
5/22/2013	Purser Paving	759 S Gladiola					No	no construction yet. set to start in 30-60 days
5/22/2013	Freeport # 6	1730S 5200 West	yes	30	UTR359443	N/A	No	dirt ramps in stockpile area
5/22/2013	Freeport # 9	1470 S 5070 W	yes	30	UTR 361379	N/A	No	inlet protection on 1590 s needs maintenance
5/22/2013	Sportsman Warehouse	1730 S 5200 W	yes		UTR363191	SW00135	No	minor tracking . site had significant dust blowing away
5/22/2013	Tradestar	1590 South Gladiola St	NO	6	UTR362415	SW00123	No	all inlets on Gladiola need protection. significant sed. in the gutter
5/22/2013	Food For Health	3250 Professional Circle	yes	5	UTR361647	SW00100	No	de-watering hoses leaking and water picking up sediment in the gutter
5/22/2013	Columbus Court PUD	34 East Columbus Court (750) north	yes	4	UTR359517	SW00127	No	plaster in storm drain on lot #7. foundation poured for lot #3
5/22/2013	Concrete Crusher	1360 W 2300 N					No	construction has not yet begun
5/23/2013	Union Station		No	N/A	UTR362345		No	Meet with contractor demo/remediation DEQ/EPA oversite
5/23/2013	Salt Lake City Public Safety Building	300 E 500 S	yes	5	UTR359769	NA	NO	Follow up all items from last inspection complete
5/28/2013	Tradestar	1590 South Gladiola St	NO	6	UTR362415	SW00123	no	action items being completed at time of inspection. spoke to Eric onsite
5/28/2013	Food For Health	3250 Professional Circle	yes	5	UTR361647	SW00100	no	action items being completed at time of inspection. spoke to Eric onsite
5/28/2013	Wilmington Gardens	1215 E Wilmington Ave	no	2	UTR363289	SW00138	no	site needs to improve curb ramp on Wilmington
5/28/2013	City Station	644 W. North Temple	no	1	UTR359007	SW00109	no	not ready for NOT. check back in 2 weeks
5/28/2013	Industrial Park	1635 S 300 W	no	1	UTR363589	SW00141	no	No site work at time of inspection
5/29/2013	Tradestar	1590 South Gladiola St	NO	6	UTR362415	SW00123	no	action items being completed at time of inspection. spoke to Eric onsite
5/29/2013	Sportsman Warehouse	1730 S 5200 W	NO	N/A	UTR363191	SW00135	No	minor tracking. talked to contractor
5/29/2013	Food For Health	3250 Professional Circle	NO	5	UTR361647	SW00100	No	some track out verbal warning to Eric of tom Stewart
5/29/2013	A-1 Radiator	5630 W. 700 South	NO	1.3	UTR362697	SW00133	No	Site good no tracking at time of drive by
5/29/2013	Uinta Brewing Phase II	1760 So. Freemont Drive	NO	2	UTR361103	SW000115	No	Bldg complete final stabilization retention pond needs stabilization
5/29/2013	Regional Sports Complex	2100 N. Rose Park Ln Salt Lake City	NO	183	UTR35461	SW00044	No	Drive by no Activity
5/29/2013	Freeport # 6	1730S 5200 West	NO	30	UTR359443	N/A	no	site good talked to tim of midley will file NOT by june 1
5/29/2013	Freeport # 9	1470 S 5070 W	NO	30	UTR 361379	N/A	No	site good talked to tim of midley will file NOT by june 1
5/29/2013	EMJ Metals	450 So 5700 W	NO	6.8	UTR362469	SW00120	no	drive by site in compliance.
5/29/2013	Buzz Oates Building	6050 W 700 S	NO		UTR361889	SW00105		light Tracking talked to excavator clean streets immediately
5/29/2013	Peter Built		NO					Site ok Drive by
5/29/2013	Sugarhouse Crossing	2100 S 1100 E	Drive by	>1	UTR360949	SW00092	N	Drive by rain event inspection
5/29/2013	Parley's trail 1700 E I-80	1700 E & I-80	No		UTR3633037	SW00134	yes	NOT filled site ok need to remove temp fence
5/29/2013	Parley's trail 1300 E	1700 E & I-80	No		UTR3633037	SW00134	No	Project not started
5/29/2013	Blue Beacon Truck Wash	2020 So 900 W	NO	2	UTR361927	SW00107	no	Drive by rain event inspection
5/30/2013	Liberty Gateway Apartments	50 S 500 West	yes	1.8	UTR361895	SW00106		increased perimeter control needed along 500w

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
5/30/2013	Purser Paving	759 S Gladiola						no site activity at time of inspection
5/31/2013	505 Wakara	505 Wakara Way	yes	2.75	UTR360404	SW00087		tracking on wakara way, complaint call from code enforcement
6/3/2013	Union Station	140 S. 300 West	No	3	UTR362345		No	Sewer & water Kills demo of old building
6/3/2013	Liberty Village	2150 S. McClelland St	yes	1.48	UTR362571	SW00128	no	site a mess for housekeeping. Greg A. followed up in person
6/3/2013	Sugarhouse Crossing	2100 S 1100 E	Yes	>1	UTR360949	SW00092	N	Site in compliance
6/3/2013	Hidden Peak Electric	1064 S 700 W	No	1	UTR362453	SW00124	no	inlet protection fell in inlet on 700 W, will need to be cleaned out
6/3/2013	Ronald McDonald House	935 E South Temple	yes	2	UTR362043	SW00113	No	inlet maintenance, perimeter on south temple needed maintenance
6/3/2013	505 Wakara	505 Wakara Way	yes	2.75	UTR360404	SW00087		tracking was minimal
6/4/2013	Terminal Transformer Replacement		no	15	UTR358077	N/A	yes	Job complete NOT filled
6/5/2013	Hogle Zoo African Savannah	2600 Sunnyside Ave	yes	5	UTR361559	SW00117		Site in compliance
6/5/2013	Hogle Zoo Water Play Ground	2600 Sunnyside Ave	no	>1		SW00137		Site in compliance
6/10/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	UTR360949	no	follow up regarding previous inspection. Reynolds will be cleaning inlet on McClelland
6/10/2013	Wilmington Gardens	1215 E Wilmington Ave	no	2	UTR363289	SW00138	no	BMP maintenance on Wilmington, spoke to site super in person regarding action items
6/11/2013	Art Space Solar Gardens	850 S 400 W	yes	2	UTR362047	SW00112		Site in compliance
6/11/2013	Liberty Gateway Apartments	50 s 500 West	no	>1	NA	SW00106		Site continues to have poor housekeeping. BMP installation needed
6/11/2013	Concrete Crusher	1360 W 2300 N						track pad needs more rock added
6/11/2013	ATP Building	560 N. 2200 west	yes	6.36	UTR36029	SW00111		Site in compliance, minor tracking in parking lot
6/13/2013	Food For Health	3250 Professional Circle	NO	5	UTR361647	SW00100		dust build up in gutter on east side of Gladiola
6/13/2013	Tradestar	1590 South Gladiola St	NO	6	UTR362415	SW00123		trackout pad on north side needs work
6/13/2013	Freeport Building #8-10 (#6)	1730S. 5200 West	NO	30	UTR359443	N/A	yes	ready for NOT -100% Stable
6/13/2013	Sportsman Warehouse	1730 S 5200 W	NO	N/A	UTR363191			more dust control needed
6/13/2013	Parley's Trail Phase IV	1300 E. 1900 S	yes		UTR363581	SW00140	No	BMP's being installed
6/13/2013	Buzz Oates Building	6050 W 700 S	NO		UTR361889	SW00105		see report
6/13/2013	A-1 Radiator	5630 W. 700 South	yes	1.3	UTR362697	SW00133	No	Site good no tracking at time of drive by
6/13/2013	EMJ Metals	450 So 5700 W	NO	6.8	UTR362469	SW00120	no	site and SWPPP good
6/13/2013	Sugarhouse Crossing	2100 S 1100 E	No	>1	UTR360949	SW00092	N	Site visit site good
6/13/2013	Wilmington Gardens	1215 E Wilmington Ave	no	2	UTR363289	SW00138	no	Site Visit meet with Todd Job Superintendent
6/13/2013	Liberty Village	2150 S. McClelland St	no	1.48	UTR362571	SW00128	no	Site Visit meet with Todd Job Superintendent
6/14/2013	EFDS SLC Archery Center	575 N John Glenn Dr	yes	8	UTR363295	SW00141	no	drainage ditch cutting through site will need protection
6/14/2013	Questar Gas II	2365 W 900 S	yes	6	UTR362567	SW00121	no	minor sweeping needed onsite and blow-away trash control
6/14/2013	Questar Gas Shop/Warehouse	270 S. Orange St	No	3	UTR362679	SW00122	no	improper concrete washout, dust control needed
6/14/2013	Lakeside Building #2	5355 W Yeagar Road	no	2	UTR361111	SW00096	no	Site ready for the NOT except an old silt fence needs to be removed
6/17/2013	Restaurant Depot	1145 S. 700 West	yes	3.99	UTR?	SW00139	no	See report
6/17/2013	Union Station	140 S. 300 West	yes	3	UTR362345		No	see report
6/18/2013	Tesoro Beck Street Grading	474 W 900 N	yes	6	UTR362093	SW00114	yes	NOT inspection, site 100% stable
6/18/2013	Tesoro Substation Lot	474 W 900 N	yes	1	UTR361159	SW00097	yes	NOT inspection, site 100% stable with 70% vegetation coverage
6/18/2013	Salt Lake City Public Safety Building	300 E 500 S	yes	5	UTR359769	NA	no	contractors washing out concrete outside of washout
6/18/2013	IHC Salt Lake Clinic	389 s. 900 east	yes	6	UTR35728	N/A	no	landscaping in parkstrip on 900 e. site looked good. left a voicemail for Jason Lewis
6/19/2013	City Station	644 W. North Temple	no	1	UTR359007	SW00109	yes	NOT is OK after some corrective actions are completed
6/19/2013	Columbus Court PUD	34 East Columbus Court (750) north	yes	4	UTR359517	SW00127	no	Site in good condition, old silt fence needs to be removed
6/19/2013	City Scape	135s 400e	yes	2	UTR361327	SW00099	no	gutter check BMP needed
6/24/2013	Rowland Hall	1481 East Sunnyside Ave	yes	13	UTR363717	SW00144	no	Spoke to super on site, dust control hourly

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
6/24/2013	Ronald McDonald House	935 E South Temple	yes	2	UTR362043	SW00113	No	Spoke to super on site. inlet protection on So Temple needs maintenance
6/24/2013	US District Courthouse	350 So. main	yes	1.2	UTR319916	SW00046	No	drive by. site in compliance
6/24/2013	Boyer 101 Building	101 S 200 E	no	1.88	UTR362543	SW00132	No	spoke to super on site. neighboring building has water from a pipe in gutter discharged to curb
6/24/2013	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	No	inletprotection on 900 w needs maintenance
6/24/2013	North 600 Apartments	50 N. 600 West	NO	1.37	N/A	N/A	No	No site activity at time of inspection
6/24/2013	USPS	2100 S Fortune Rd	NO	13	N/A	N/A	No	Demolition of old warehouse Spencer is developing SWPPP and filling NOI'S
6/24/2013	City Station	644 W. North Temple	no	1	UTR359007	SW00109	yes	Follow up site good ok to terminate
6/27/2013	The State St. Plaza	253 So State	yes	1	UTR362001	SW00108	no	cleanup of alley and spill kit needed on site for fuel
6/27/2013	Liberty Gateway Apartments	50 s 500 West	no	>1	NA	SW00106	no	inlet needed to be protected on site
6/27/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	UTR360949	no	inlet protection around dewatering inlet needs improved inlet protection
6/27/2013	Liberty Village	2150 S. McClelland St	yes	1.48	UTR362571	SW00128	no	Pikus Co employees were washing concrete tools in gutter. concrete washout had a leak
6/27/2013	Wilmington Gardens	1215 E Wilmington Ave	no	2	UTR363289	SW00138	no	drive by inspection. site had no sediment in street
6/28/2013	Tradestar	1590 South Gladiola St	NO	6	UTR362415	SW00123	no	silt fence needs repairs
6/28/2013	Food For Health	3250 Professional Circle	NO	5	UTR361647	SW00100	no	professional circle had sig. amount of sed.. track pads needed refreshed
7/2/2013	Uinta Brewing Phase II	1760 So. Freemont Drive	NO	2	UTR361103	SW000115	yes	Project Complete NOT
7/2/2013	North 600 Apartments	50 N. 600 West	NO	1.37	N/A	N/A	No	No site activity at time of inspection
7/2/2013	Hogle Zoo African Savanna	2600 Sunnyside Ave	yes	5	UTR361559	SW00117	no	storm inlet protection needs to be cleaned by gorilla exibit
7/2/2013	Hogle Zoo Water Playground	2600 Sunnyside Ave	no	>1		SW00137	no	the staging area needs to be swept where a minor amount of sed. exists
7/2/2013	505 Wakara	505 Wakara Way	yes	2.75	UTR360404	SW00087	no	landscapers are piling sediment in gutters.I spoke over the phone to Doug King regarding cleaning the gutter
7/2/2013	Rowland Hall	1481 East Sunnyside Ave	yes	13	UTR363717	SW00144	no	site well contained. No track out.
7/2/2013	Boyer 101 Building	101 S 200 E	no	1.88	UTR362543	SW00132	no	water in the gutter is from a "chiller" that is on 100s in Global Consulting International
7/8/2013	UNI Building	501 Chipeta way	No	9	UTR334260	N/A	yes	Project Complete NOT
7/8/2013	Parley's Trail Phase IV	1300 E. 1900 S	yes		UTR363581	SW00140	No	Silt fence by ceek needs repair follow up on 7/9/2013 go over SWPPP
7/9/2013	Ballet West	52 W 200 S	no	0.5	NA	SW00147	no	building of side walk ramp. super in meeting at time of inspection
7/9/2013	ATP Building	560 N. 2200 west	yes	6.36	UTR36029	SW00111	no	inlets need protection& good housekeeping needed
7/9/2013	EFDS SLC Archery Center	575 N John Glenn Dr	yes	8	UTR363295	SW00141	no	new curb ramps need to be installed. super needs to know where to get water
7/9/2013	Quality Distribution	610 West Amelia Earhart Drive	no	6	UTR364195	SW00145	no	no site activity at time of inspection
7/9/2013	Art Space Solar Gardens	850 S 400 W	yes	2	UTR362047	SW00112	no	sediment controls needed. track pad needed refreshed
7/9/2013	US District Courthouse	350 So. main	yes	1.2	UTR319916	SW00046	no	inlets needed cleaning and good housekeeping
7/9/2013	Wilmington Gardens	1215 E Wilmington Ave	no	2	UTR363289	SW00138	no	Site ok need to clean some debris from inlet bags
7/9/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	UTR360949	no	Add gravel to area by inlet
7/9/2013	Liberty Village	2150 S. McClelland St	yes	1.48	UTR362571	SW00128	no	refresh track out pad
7/9/2013	Parley's Trail Phase IV	1300 E. 1900 S	yes		UTR363581	SW00140	No	Silt fence by ceek needs repair follow up on 7/9/2013 go over SWPPP
7/9/2012	Darwin Street water main project	400 N to 700 N	No	N/A	N/A	N/A	no	
7/11/2013	Cityscape Apartments	135s 400e	yes	2	UTR361327	SW00099	no	site out of compliance. see report on file
7/11/2013	Union Station	140 S. 300 West	No	N/A	UTR362345		no	significant amount of sediment around site perimeter
7/11/2013	IHC Salt Lake Clinic	389 s. 900 east	yes	6	UTR35728	N/A	no	not ready for and NOT yet. see report on file
7/11/2013	Mountain View Comm Learning Center	1380 navajo St	yes	< 1	N/A	SW00091	no	not ready for NOT yet . see report on file
7/11/2013	Malcolm Drilling	791 S Gladiola St	yes	3	UTR360936	SW00088	no	landscaping to occur next week in retention basin on Gladiola
7/11/2012	7-Eleven	875 E. 400 South	no	0.5		SW00104	yes	Project complete NOT filled
7/12/2012	Cityscape Apartments	135s 400e	yes	2	UTR361327	SW00099	no	follow up from previous inspection. action items being performed
7/12/2012	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	no	storm inlet at the bottom of truck wash exit needs a oil/water BMP

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
7/12/2012	Sportsman Warehouse	1730 S 5200 W	yes		UTR363191	SW00135	yes	site is 100% stable. majority of area was hydoseeded
7/12/2012	Freeport#9	1470 S 5070 W	yes	30	UTR 361379	N/A	no	storm inlet boxes on north perimeter have trash and sediment in them
7/12/2012	Buzz Oates Building	6050 W 700 S	yes		UTR361889	SW00105	no	improper curb ramp
7/12/2012	EMJ Metals	450 So 5700 W	NA	6.8	UTR362469	SW00120	no	site in compliance
7/12/2012	A-1 Radiator	5630 W. 700 South	yes	1.3	UTR362697	SW00133	no	site in compliance
7/12/2013	Darwin Street water main project	560 S. Girad/Dawin St	Yes	<1	N/A	N/A	no	Site in compliance Tail Gate Training
7/15/2013	505 Wakara	505 Wakara Way	yes	2.75	UTR360404	SW00087	no	sod has not occurred yet. ~70% exposed sediment on site
7/15/2013	IHC Salt Lake Clinic	389 s 900 east	yes	6	UTR35728	N/A	no	small area of exposed sediment left. see picture on file
7/15/2013	Ronald McDonald House	935 E South Temple	yes	2	UTR362043	SW00113	no	site has new super. Dave Stephenson. SWPPP updates needed
7/15/2013	Hidden Peak Electric	1064 S 700 W	yes	1	UTR362453	SW00124	no	inlets need cleaning.see report on file
7/15/2013	Restaurant Depot	1145 S. 700 West	yes	3.99	UTR364045	SW00139	no	inlet on 700 W needs secure inlet protection. current protection is fabric.
7/16/2013	Salt Lake City Public Safety Building	300 E 500 S	yes	5	UTR359769	NA	no	Project allmsot complete final satabiliztion
7/16/2013	Wilmington Gardens	1215 E Wilmington Ave	no	2	UTR363289	SW00138	no	Drive by after rain event
7/16/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	UTR360949	no	Drive by after rain event
7/16/2013	Liberty Village	2150 S. McClelland St	yes	1.48	UTR362571	SW00128	no	Drive by after rain event (talked to Dino about waddle)
7/16/2013	Parley's Trail Phase IV	1300 E. 1900 S	yes		UTR363581	SW00140	No	Drive by after rain event
7/16/2013	Boyer 101 Building	101 S 200 E	no	1.88	UTR362543	SW00132	No	TSS limits exceeded for dewatering. site needs to filter
7/16/2013	Liberty Gateway Apartments	50 s 500 West	no	<1	NA	SW00106	No	storm inlet maintenace
7/16/2013	Columbus Court PUD	34 East Columbus Court (750) north	yes	4	UTR359517	SW00127	No	erosion control needed. staked wattle. new super Travis Schmit
7/17/2013	Terminal Reservoir				N/A	N/A	No	Project in county ride along to inspect bmp's for slc utility insp. (BMP's ok)
7/17/2013	Salt Lake City Public Safety Building	300 E 500 S	yes	5	UTR359769	NA	Yes	Contractor called for NOT. Needs some work Follow Up 7/19/2013
7/17/2013	700 So. Rehabilitation Streets project	700 S. 4400 west to Bangerter	No		UTR364217		No	Replace inlet protection
7/17/2013	IHC Salt Lake Clinic	389 s. 900 east	yes	6	UTR35728	N/A	yes	not ready for and NOT yet. follow up 7/19/2013
7/17/2013	Rowland Hall	1481 East Sunnyside Ave	yes	13	UTR363717	SW00144	no	Job Trailer getting set up. no SWPPP on site
7/18/2013	ARUP Generator Building	420 Chipeta Way	NA	<1	NA	SW00150	No	ersosion control needed. sediment piled on impervious surface
7/18/2013	Queststar Gas Shop- Warehouse	270 South Orange St	no	3	UTR362679	SW00122	no	trailer locked unable to see SWPPP. site looks OK
7/18/2013	Military H2o Main Replacement	1700 E Military Dr.	No	<1	N/A	N/A	No	Called out by Jeff N. to consult the contractor on erosion BMp's
7/19/2013	IHC Salt Lake Clinic	389 s. 900 east	yes	6	UTR35728	N/A	yes	not ready for and NOT yet. follow up 7/19/2013
7/19/2013	Salt Lake City Public Safety Building	300 E 500 S	yes	5	UTR359769	NA	Yes	Contractor called for NOT. Needs some work Follow Up 7/19/2013
7/19/2013	700 So. Rehabilitation Streets project	700 S. 4400 west to Bangerter			UTR364217	N/A	No	inlet protection good follow up from 7/17/2013
7/19/2013	Military H2o Main Replacement	1700 E Military Dr.	No	<1	N/A	N/A	No	Called out by Jeff N. to consult the contractor on erosion BMp's
7/19/2013	Food For Health	3250 Professional Circle	yes	5	UTR361647	SW00100		inlets missing protection
7/19/2013	Tradestar	1590 South Gladiola St	NO	6	UTR362415	SW00123	no	inlets missing protection
7/19/2013	Questar Gas II	2365 W. 900 So	yes	0.75	N/A	SW00121	no	SWPPP needs updating. see report on file
7/19/2013	Western Big City Recycling	1975 W Bending River Crt	yes	3	UTR360235	?	no	permits expired
7/19/2013	SLCC South City Campus	1575 S State St	yes		UTR357614	SW00149	no	site in compliance
7/19/2013	USPS Auxiliary Service	1900 S Industrial Rd	yes	17	UTR363739	NA>5 acres	no	windrow berm to be added on east perimeter
7/19/2013	Glendale Library	1375 S Concord St	no	1.26			no	no site activity
7/23/2013	Rowland Hall	1481 East Sunnyside Ave	yes	13	UTR363717	SW00144	no	SWPPP needs updating. see report on file
7/23/2013	State St. Plaza	253 So State	yes	1	UTR362001	SW00108	no	site in compliance. minor BMP maintenance needed
7/23/2013	Concrete Crusher	1360 W 2300 N	no	8	UTR362821	SW-00131	no	concrete fence is done. SWPPP needs updates
7/23/2013	Purser Paving	759 S Gladiola	no		NA<1 acre	SW00151	no	SWPPP needs updating. see report on file

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
7/23/2013	Pacific Steel	2850 W. 900 So.	yes	0.75	NA<1 acre	SW00118	no	silt fence needs repairs
7/23/2013	North 600 Apartments	50 N. 600 West	no	1	UTR364135	SW00146	no	no site activity
7/23/2013	500 East Apartments	540 E. 500 S.	N0	>1	N/A	SW00143	No	No site activity (Called Contractor left message)
7/29/2013	Liberty Village	2150 S. McClelland St.	yes	1.48	UTR362571	SW00128	no	Site in Compliance
7/29/2013	Telepereformance Data Bunker	638 S. 4150 West	No	1	UTR360389	SW00090	yes	NOT filled site Closed out
7/30/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	UTR360949	no	Site in compliance
7/30/2013	Wilmington Gardens	1215 E Wilmington Ave	no	2	UTR363289	SW00138	no	Site in Compliance
7/30/2013	500 S. Apartsments	540 E. 500 S.	No	>1	N/A	SW000143	No	Site ok (see report on file)
7/30/2013	Restaurant Depot	1145 S. 700 West	yes	3.99	UTR364045	SW00139	no	Warning for track out and dust control (see report) Hand Deliver 8/2/3/2013 Scott Swanger present
7/31/2013	Parley's Trail Phase IV The Draw	2152 S. 1300 E.	Yes		UTR363581	SW00140	N	Site ok prblems with retaining wall
8/2/2013	Hogle Zoo R.S. Water Playground	2600 Sunnyside Ave	no	>1		SW00137	yes	site is 100%stable and ready to file the NOT
8/2/2013	Hogle Zoo African Savanna	2600 Sunnyside Ave	yes	5	UTR361559	SW00117	no	site in compliance
8/2/2013	Sugarhouse Streetcar	1100 E -200 W along 2235 S	yes	10	UTR360597	N/A	no	permit expired and needs to be renewed
8/2/2013	Darwin Street water main project	560 S. Girad/Dawin St.	Yes	<1	N/A	N/A	no	Project Complete
8/6/2013	Cross Dock 1 Phase 1(USPS Auxiliary)	1900 S Industrial Rd	Yes	17 acres	UTR363739	SW	N	Compliant Inspection for dust control meet with Tim Curl disscussed problem
8/8/2013	A-1 Radiator	5630 W. 700 South	yes	1.3	UTR362697	SW00133	no	site in compliance
8/8/2013	Buzz Oates Building	6050 W 700 S	yes		UTR361889	SW00105	no	Light Tracking sweep gutters
8/8/2013	EMJ Metals	450 So 5700 W	NA	6.8	UTR362469	SW00120	no	site in compliance
8/8/2013	North 600 Apartments	50 N. 600 West	NO	1.37	UTR364135	SW00146	No	Meet with contractor ((Terry Smart)will have job trailer on site week of 8/12 Express envro contracted
8/8/2013	700 So. Rehabilitation Streets project	700 S. 4400 west to Bangerter	No		UTR364217		No	Site In good condition
8/12/2013	Boyer 101 Building	101 S 200 E	Yes	1.88	UTR362543	SW00132	No	Reported discharge of muddy de-watering mud practices
8/12/2013	Rowland Hall	1481 East Sunnyside Ave	yes	13	UTR363717	SW00144	No	concrete washout is not lined
8/12/2013	Ronald McDonald House	935 E South Temple	yes	2	UTR362043	SW00113	No	site in compliance
8/12/2013	Ballet West	52 W 200 S	no	0.5	NA	SW00147	No	track pad needs more rock added
8/14/2013	ATP Building	560 N. 2200 west	yes	6.36	UTR36029	SW00111	No	dirt berm in gutter oked by Jason city engineer. track pad needs immediate attention -mud. S.S. emailed pictures of corrected action items
8/14/2013	US District Courthouse	350 So. main	yes	1.2	UTR319916	SW00046	No	more rock needs to be added to the SW site entrance off West Temple
8/14/2013	EFDS SLC Archery Center	575 N John Glenn Dr	yes	8	UTR363295	SW00141	No	moderate amount of sediment in gutter on John Glenn. track pad needs refreshed
8/14/2013	Quality Distribution	610 West Amelia Earhart Drive	no	6	UTR364195	SW00145	No	track pad needs refreshed - trailer with SWPPP not on site yet
8/13/2013	Boyer 101 Building	101 S 200 E	no	1.88	UTR362543	SW00132	No	TSS limits exceeded for dewatering. site needs to filter (Shut down de-watering process)
8/14/2013	Boyer 101 Building	101 S 200 E	no	1.88	UTR362543	SW00132	No	Follow up Possible NOV
8/14/2013	500 S. Apartsments	540 E. 500 S.	No	>1	N/A	SW000143	No	Shut down de-watering process
8/14/2013	Rowland Hall	1481 East Sunnyside Ave	yes	13	UTR363717	SW00144	no	Follow up Instructed contractor to immediately line wash out pit
8/15/2013	Union Station	140 S. 300 West	yes	3	UTR362345	SW00152	No	see report
8/15/2013	Parley's Trail Phase IV	1300 E. 1900 S.	no		UTR363581	SW00140	No	site inspection meet with Sam Mojabi to discuss plans moving forward
8/15/2013	Regional Sports Complex	2100 N. Rose Park Ln Salt Lake City	no	183	UTR35461	SW00044	No	site visit no activity project will resume by end f August 2013
8/15/2013	U of U School Of Dentistry	530 S. Wakara Way	Yes	2.18	UTR364373	SW	No	see report
8/16/2013	500 S. Apartsments	540 E. 500 S.	No	>1	N/A	SW000143	No	Follow Up
8/16/2013	Cityscape Apartments	135s 400e	yes	2	UTR361327	SW00099	No	significant amount of sed. In 400 e gutter. inspections not up-to-date. out of complaince
8/16/2013	Liberty Gateway Apartments	50 s 500 West	no	>1	NA	SW00106	No	significant amount of sediment in gutter of 500 w. Kevin emailed pictures of corrected items
8/16/2013	Tesoro Off-Loading Station	475 W 900 N	no	2.25	UTR364505	SW00148	No	demolition 100% complete. site in compliance
8/19/2013	Industrial Supply	1635 S 300 W	No					
8/20/2013	Riverbend Sports Center	1085 S Winding River CV	no	3	UTR364415		no	installing BMPs for SWPPP

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
8/20/2013	Western Big City Recycling	1975 W Bending River Crt	yes	3	UTR360235		no	minor sed. Around inlet protection and concrete cobble dumped in gutter
8/20/2013	Food For Health	3250 Professional Circle	yes	5	UTR361647	SW00100	no	landscaping will begin next week, temp. BMPs still in place
8/20/2013	Tradestar	1590 South Gladiola St	NO	6	UTR362415	SW00123	no	site will have landscaping complete by the end of this week
8/20/2013	Purser Paving	759 S Gladiola	no		NA<1 acre	SW00151	no	track pad needs to be have more rock added
8/20/2013	Malcolm Drilling	791 S Gladiola St	yes	3	UTR360936	SW00088	no	small amount of concrete left to pour around building, after that the site will be 100% stable
8/21/2013	Restaurant Depot	1145 S. 700 West	yes	3.99	UTR364045	SW00139	no	Met with owner and contractor SLC ENG and excavator. Zero tolerance for site
8/22/2013	North 600 Apartments	50 N. 600 West	Yes	1.37	UTR364135	SW00146	No	Job Trailer and SWPPP on site now still grading BLDG foot print
8/22/2013	USPS Auxiliary Service	1900 S Industrial Rd	yes	17	UTR363739	NA>5 acres	no	Site ok no SWPPP insp trailer locked tim Curl on another project.
8/22/2013	Liberty Gateway Apartments	50 s 500 West	no	>1	NA	SW00106	No	Follow streets and gutter swept.
8/22/2013	700 So. Rehabilitation Streets project	700 S. 4400 west to Bangerter	No		UTR364217		No	Site In good condition
8/26/2013	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	no	frac tank on site full ground water but no discharge yet. operator aware of disharge needing permit
8/26/2013	Mountain View Comm Learning Center	1380 navajo St	yes	< 1	N/A	SW00091	yes	site is 100% stable. all temporary BMPs removed. building occupied
8/26/2013	Questar Gas II	2365 W. 900 So.	yes	0.75	N/A	SW00121	no	minor sed. in gutter on site. super not maintaining SWPPP
8/26/2013	Hidden Peak Electric	1064 S 700 W	yes	1	UTR362453	SW00124	no	deteriorating inlet protection on storm drain in back. action item to remove for 2 months now
8/26/2013	Columbus Court PUD	34 East Columbus Court (750) north	yes	4	UTR359517	SW00127	no	SWPPP needs updating, minor sediment in gutter
8/29/2013	Liberty Village	2150 S. McClelland St	yes	1.48	UTR362571	SW00128	no	swppp in excellent condition. minor action items on site
8/29/2013	Freeport #9	1470 S 5070 W	yes	30	UTR 361379	N/A	no	landscaping underway. polluted discharge of muddy water to storm during inspection
8/29/2013	Wilmington Gardens	1215 E Wilmington Ave	no	2	UTR363289	SW00138	no	leaking mini-excavator had oil spill on pavement in staging
8/29/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	UTR360949	no	cwos over-full. one cwo leaking. torn sand bags and foam particulate
8/29/2013	Art Space Solar Gardens	850 S 400 W	yes	2	UTR362047	SW00112	no	landscaping underway. site not ready for an NOT yet
8/29/2013	State St. Plaza	253 So State	yes	1	UTR362001	SW00108	no	site in compliance at the time of inspection
8/30/2013	Pacific Steel	2850 W. 900 So.	no	0.75	NA<1 acre	SW00118	no	site in compliance. preparing to repave parking lot
8/30/2013	Cresent Point Water Line Extension	3070 W 500 S	no	5	UTR364803	SW00155	no	Project not started
8/30/2013	West Point Business Park Lot 2&3	1530 N 2200 W	no	2.3	NA<1 acre	SW00126	no	landscaping in place. will file for NOT soon
8/30/2013	Concrete Crusher	1360 W 2300 N	no	8	UTR362821	SW-00131	no	project slowed due to summer business. will resume in fall
8/30/2013	Questar Gas Shop/Warehouse	270 S. Orange St	No	3	UTR362679	SW00122	no	site has a berm surrounding it. no site activity at time of inspection
9/3/2013	Larkin Tree Farm	2828 N 2200 W	No	6	UTR364491		No	grubbing taking place no one on site at time of insp.
9/3/2013	Great Dane Trailers	764 W. 2100 S	No	7	UTR364685	SW000153	N	no site activity at time of inspection
9/3/2013	Brides at Citifront	650 S. West Temple	No	5	UTR108244		N	no site activity at time of inspection
9/5/2013	Tradestar	1590 South Gladiola St	NO	6	UTR362415	SW00123	Yes	site is 100% stable. fire line flushing was taking place at the time of inspection
9/6/2013	500 S. Apartsments	540 E. 500 S.	No	>1	N/A	SW000143	No	site inspection (see report)
9/6/2013	700 So. Rehabilitation Streets project	700 S. 4400 west to Bangerter	No		UTR364217		No	Site In good condition
9/6/2013	505 Wakara	505 Wakara Way	yes	2.75	UTR360404	SW00087	No	drive-by NOT inspection. site still has exposed sediment and cannot file NOT
9/6/2013	African Savanna	2600 Sunnyside Ave	yes	5	UTR361559	SW00117	No	site in compliance. Emigration Creek is being re-routed to install retention wall
9/6/2013	U of U School Of Dentistry	530 S. Wakara Way	Yes	2.18	UTR364373		No	minor tracking on Wakara. track out pad needs to be refreshed
9/6/2013	ARUP Generator Building	420 Chipeta Way	NA	<1	NA	SW00150	No	area around the storm inlet was wet and muddy. inlet protection needs maintenance
9/6/2013	SJ Quinny School of Law					SW00154	No	drive-by inspection only. no track out coming from site
9/6/2013	Rowland Hall	1481 East Sunnyside Ave	yes	13	UTR363717	SW00144	No	site using a pre-fabricated concrete washout. track out pad needs maintenance
9/6/2013	Cityscape Apartments	135s 400e	yes	2	UTR361327	SW00099	No	SWPPP up to date. moderate amount of sediment in gutter. landscape to be installed in next few weeks
9/6/2013	Ronald McDonald House	935 E South Temple	yes	2	UTR362043	SW00113	No	site in compliance at the time of inspection
9/9/2013	Salt Lake City Overlay (Granite Const.)	Various locations	No	2	UTR363515	SW00142	Yes	Project complete
9/9/2013	SLCC South City Campus	1575 S State St	yes		UTR357614	SW00149	No	site in compliance at the time of inspection. Oct. 31st completion date

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
9/9/2013	US District Courthouse	350 So. main	yes	1.2	UTR319916	SW00046	No	Site in compliance at the time of inspection. new curb being installed on W Temple
9/9/2013	Union Station	140 S. 300 West	yes	3	UTR362345	SW00152	No	site in compliance, all previous action items completed
9/9/2013	Boyer 101 Building	101 S 200 E	no	1.88	UTR362543	SW00132	No	large settling tank installed for de-watering, weekly monitoring discharges
9/10/2013	ATP Building	560 N. 2200 west	yes	6.36	UTR36029	SW00111	No	landscaping taking place, reminded superintendent to sweep at the end of each day
9/10/2013	Ballet West	52 W 200 S	no	0.5	NA	SW00147	No	trackpad was bare but no tracking present on 200s
9/10/2013	Liberty Gateway Apartments	50 s 500 West	no	<1	NA	SW00106	No	good housekeeping action items.inlet protection in disrepair or missing
9/10/2013	EFDS SLC Archery Center	575 N John Glenn Dr	yes	8	UTR363295	SW00141	No	repair silt fence or remove along John Glenn, maintain perimeter controls around ditch
9/10/2013	Quality Distribution	610 West Amelia Earhart Drive	no	6	UTR364195	SW00145	No	sweeper on site during inspection, both track pads bare
9/3/2013	500 S. Apartsments	540 E. 500 S.	No	>1	N/A	SW000143	No	Dewatering BMP's need to br refreshed
9/13/2013	Restaurant Depot	1145 S. 700 West	yes	3.99	UTR364045	SW00139	no	DE-watering BMP's need to be improved & SWPPP and site needs to be updating (pending NOV)
9/17/2013	Buzz Oates Building	6050 W 700 S	yes		UTR361889	SW00105	no	drip pans needed for drums of oil on site
9/17/2013	EMJ Metals	450 So 5700 W	NA	6.8	362469	SW00120	almost	site almost stable- in process of landscaping and will be done this week
9/17/2013	A-1 Radiator	5630 W. 700 South	yes	1.3	UTR362697	SW00133	no	site in compliance, minor action items
9/17/2013	Tesoro Off-Loading Station	475 W 900 N	no	2.25	UTR364505	SW00148	no	no site activity currently, still in bidding process for the next construction phase
9/17/2013	Columbus Court PUD	34 East Columbus Court (750) north	yes	4	UTR359517	SW00127	no	new foundation excavation on one house, erosion control needed to the east side
9/17/2013	North 600 Apartments	50 N. 600 West	yes	1.37	N/A	N/A	no	site in compliance, previous action items completed minus the map updates
9/18/2013	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	almost	site almost complete landscaping going in, gave super the NOT form
9/18/2013	Clean Energy LNG Fueling Station	1101 W 2100 S	no				no	site has not yet started
9/18/2013	Great Dane Trailers	770 W 2100 S	no	7.2	UTR364685	SW00153	no	no site activity, site grubbed and inlets protected
9/18/2013	USPS Auxiliary Service	1900 S Industrial Rd	yes	17	UTR363739	NA>5 acres	no	site looks good. SWPPP up to date, a few barrels were missing lids
9/19/2013	Malcolm Drilling	791 S Gladiola St	no	3	UTR360936	SW00088	no	bare dirt road shoulder is SLC property, inlet protection on site needs maintenance
9/19/2013	Purser Paving	759 S Gladiola	no		NA<1 acre	SW00151	no	BMPS look good . SWPPP not available on site at time of inspection
9/19/2013	Food For Health	3250 Professional Circle	yes	5	UTR361647	SW00100	no	a few remaining temporary BMPs need to be removed
9/19/2013	Columbus Court PUD	34 East Columbus Court (750) north	yes	4	UTR359517	SW00127	yes	NOT approved and filed for lot 3
9/19/2013	Western Big City Recycling	1975 W Bending River Crt	yes	3	UTR360235		no	minor SWPPP and BMP maintenance action items
9/19/2013	Riverbend Sports Center	1085 S Winding River CV	no	3	UTR364415		no	no site activity at the time of inspection. site in compliance
9/23/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	UTR360949	no	torn sandbags on the north perimeter
9/23/2013	Liberty Village	2150 S. McClelland St	yes	1.48	UTR362571	SW00128	no	site in compliance
9/23/2013	Cityscape Apartments	135s 400e	yes	2	UTR361327	SW00099	no	landscaping underway. site not ready for an NOT yet
9/23/2013	Spec 6-4-2 Building	1414 S Gustin Rd	no	>10 acres	UTR364613	NA>5 acres	no	SWPPP needed on site
9/23/2013	Wilmington Gardens	1215 E Wilmington Ave	no	2	UTR363289	SW00138	no	clean up of kitty litter from previous leak needed
9/25/2013	Art Space Solar Gardens	850 S 400 W	yes	2	UTR362047	SW00112	no	Project complete Site fully stabilized
9/25/2013	500 S. Apartsments	540 E. 500 S.	No	>1	N/A	SW000143	No	DE-watering directly into storm system
9/27/2013	Parley's Trail Phase IV	1300 E. 1900 S	no		UTR363581	SW00140	No	Need track out pad and silt fence repair lower half of trail turned over to county/Parks
10/01/203	U of U School Of Dentistry	530 S. Wakara Way	Yes	2.18	UTR364373	SW	no	track pad needs refreshed
10/01/203	Ronald McDonald House	935 E South Temple	yes	2	UTR362043	SW00113	no	inlet protection needs to be maintained and driveways swept
7/31/2013	Parley's Trail Phase IV The Draw	2152 S. 1300 E.	Yes		UTR363581	SW00140	N	Site ok prblems with retaining wall
10/01/203	Boyer 101 Building	101 S 200 E	No	1.88	UTR362543	SW00132	no	track pads need maintenance. monitoring constituents within accepatble parameters
10/01/203	505 Wakara	505 Wakara Way	NO	2.75	UTR360404	SW00087	yes	site is 100% stable. all temporary BMPs removed, building occupied . NOT sent to Olivia
10/2/2013	Boyer 102 Building	155 S 200 E	No	1.54	UTR365087	SW00157	NO	SWPPP needs to be made available on site
10/2/2013	ATP Building	560 N. 2200 west	no	6.36	UTR36029	SW00111	NO	site has groundwater SW corner. may need permit from state if they dewater off site
10/2/2013	West Point Business Park Lot 2&3	1530 N 2200 W	no	2.3	NA<1 acre	SW00126	NO	sweeping needed, further stablization of detention basin on east side needed

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
10/2/2013	Pacific Steel	2850 W 900 S	no	0.75	NA<1 acre	SW00118	NO	landscape done in front of property. demo going to start on building to the west
10/3/2013	Evergreen main replacement	Evergreen Ave 30th east 3700 E	No		N/A	N/A	N/A	Project is good responded to a compliant from county inspector no evidence of discharge. Discharging into sewer
10/3/2013	Hogle Zoo Afican Savannah	2600 Sunnyside Ave	yes	5	UTR361559	SW00117	NO	site in compliance, minor action items
10/3/2013	Hidden Peak Electric	1064 S 700 W	no	1	UTR362453	SW00124	NO	new site contact, Marty. Jeremy Hansen not available
10/6/2013	Buzz Oates Building	6050 W 700 S	yes	25	UTR361889	SW00105	no	site is almost ready for an NOT - will be stable and landscaped by next week; John Monson is back
10/6/2013	500 S. Apartments	500 S 500 E	yes	<1	NA	SW00143	no	improper concrete washout. perimeter control needed on 500 s and sweeping needed
10/6/2013	A-1 Radiator	3650 W 700 S	yes	1.3	UTR362697	SW00133	No	moderate sediment around inlet protection and minor in gutter
10/6/2013	Ballet West	52 W 200 S	yes	0.5	NA	SW00147	no	site in compliance, all BMPs in place and well maintained
10/8/2013	Questar Gas II	2365 W 900 So.	yes	0.75	UTR362567	SW00121	yes	Project Complete left message w/Ried Hees Questar to file State NOT 10/8/13
10/16/2013	Honnen Equipment	1376 S. Distribution Dr.	Yes	13	UTR365233	SW00162	No	See report
10/16/2013	A-1 Radiator	3650 W 700 S	yes	1.3	UTR362697	SW00133	No	Concrete washout needs to be replaced
10/16/2013	Buzz Oates Building	6050 W 700 S	yes	25	UTR361889	SW00105	no	Project almost coplete contact John Monson schedule NOT Insp.
10/16/2013	Great Dane Trailers	770 W 2100 S	no	7.2	UTR364685	SW00153	no	Meet with contractor and reviewed SWPPP and inspected the site.
10/16/2013	700 So. Rehabilitation Streets project	700 S. 4400 west to Bangerter	No		UTR364217	N/A	No	Site In good condition
10/30/2013	Public Utilities Parking Lot	1530 S West Temple	No	1			No	Tracking is an issue - Instructed contractor to cleanup and improve bmps
10/28/2013	Liberty Gateway Apartments	50 s 500 West	no	<1	NA	SW00106	No	good housekeeping action items.inlet protection in disrepair or missing
10/28/2013	Buzz Oates Building	6050 W 700 S	No	20	UTR361889	SW00105	Yes	Project Complete
10/28/2013	Quality Distribution	610 West Amelia Earhart Drive	no	6	UTR364195	SW00145	No	sweeper on site during inspection, both track pads bare
10/28/2013	EFDS SLC Archery Center	575 N John Glenn Dr	yes	8	UTR363295	SW00141	No	repair silt fence or remove along John Glenn, maintain perimeter controls around ditch
10/28/2013	Questar Gas Shop/Warehouse	270 S. Orange St	No	3	UTR362679	SW00122	no	Project near complete will file NOT week of 4/11/13
10/28/2013	Cresent Point Water Line Extension	3070 W 500 S	no	5	UTR364803	SW00155	no	Project not started
	Brides at Citifront	49 N. 600 West	No	5	UTR108244	SW00159	N	no site activity at time of inspection
10/28/2013	Riverbend Sports Center	1085 S Winding River CV	no	3	UTR364415		no	no site activity at time of inspection
10/28/2013	Western Big City Recycling	1975 W Bending River Crt	yes	3	UTR360235		no	minor sed. Around inlet protection and concrete cobble dumped in gutter
10/28/2013	Glendale Library	1375 S Concord St	no	1.26	UTR365309		no	Project getting started fence around site no activity or anyone on site at time of inspection
10/28/2013	Union Station	140 S. 300 West	yes	3	UTR362345	SW00152	No	contracor preparing 300 west exit for asphalt & curbing
10/28/2013	Cityscape Apartments	135s 400e	yes	2	UTR361327	SW00099	no	Site ready for NOT
10/29/2013	American Cancer Society hope Lodge			1.7				
10/29/2013	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	almost	Project complete left message to call for Final and NOT 10/8/13
10/29/2013	700 So. Rehabilitation Streets project	700 S. 4400 west to Bangerter	No		UTR364217		No	Project complete
10/29/2013	Probar Project	190 N. Appollo Rd.	No	2.36	UTR365433	SW00163	N	no site activity at time of inspection
10/29/2013	Concrete Crusher	1360 W 2300 N	no	8	UTR362821	SW-00131	no	Not Much activity owner operater will file not once they pour drive approach and landscape park strip.
10/29/2013	Columbus Court PUD	34 East Columbus Court (750) north	yes	4	UTR359517	SW00127	yes	NOT for 74 E
10/29/2013	North 600 Apartments	50 N. 600 West	yes	1.37	UTR363729	SW00146	no	See report
10/29/2013	Purser Paving	759 S Gladiola	no		NA<1 acre	SW00151	no	BMPS look good . SWPPP not available on site at time of inspection
10/29/2013	Malcolm Drilling	791 S Gladiola St	no	3	UTR360936	SW00088	no	Site is paved and is waiting for gas meter instalation to complete project
11/4/2013	March Street Property	601 S. March Street	Yes	19	UTR365279	Sw00161	No	Site is good
11/4/2013	USPS Auxiliary Service	1900 S Industrial Rd	yes	17	UTR363739	NA>5 acres	no	See Report
11/4/2013	Glendale Library	1375 S Concord St	no	1.26	UTR365309		no	Meet with contract Casey Hales
11/4/2013	ATP Building	560 N. 2200 west	no	6.36	UTR36029	SW00111	Yes	site has groundwater SW corner. may need permit from state if they dewater off site
11/4/2013	Freeport #9	1470 S 5070 W	no	30	UTR 361379	N/A	Yes	landscaping underway. polluted discharge of muddy water to storm during inspection
11/6/2013	Gaudalupe Schools	1385 N. 1200 West	No	3	UTR365547	SW00167	No	no site activity at time of inspection

Date	2013 Construction site Inspections: Project	Location/Job site	SWPPP Insp.	Acres	UTR NO.	SLSW #	NOT	Comments
11/6/2013	Brides at Citifront	49 N. 600 West	No	1.3	UTR365203	SW00159	No	no site activity at time of inspection
11/4/2013	Ronald McDonald House	935 E South Temple	Yes	2	UTR362043	SW00113	No	Minor housekeeping needed - construction entrance and perimeter controls
11/4/2013	State Street Plaza	253 So State	yes	1	UTR362001	SW00108	No	Minor cleanup needed - some tracking and mud.
11/4/2013	Boyer 102 Parking Structur	155 South 200 East	Yes		UTR365087	SW00157	No	Wasdsworth will do SWPPP Log and maintenance. Eric Lee Super
11/4/2013	900 South Wetland	900 S 900 W	Y	1	UTR365519		No	Dewatering and site grubbing
11/8/2013	Sugarhouse Crossing	2100 S 1100 E	no	>1	UTR360949	UTR360949	no	Site in compliance
11/8/2013	Wilmington Gardens	1215 E Wilmington Ave	no	2	UTR363289	SW00138	no	clean up of kitty litter from previous leak needed
11/8/2013	Liberty Village	2150 S. McClelland St	yes	1.48	UTR362571	SW00128	no	site in compliance
11/8/2013	Parley's Trail Phase IV The Draw	2152 S. 1300 E	Yes		UTR363581	SW00140	N	Site ok prblems with retaining wall
11/8/2013	Rowland Hall	1481 East Sunnyside Ave	yes	13	UTR363717	SW00144	no	Follow up Instructed contractor to immediately line wash out pit
11/8/2013	U of U School Of Dentistry	530 S. Wakara Way	Yes	2.18	UTR364373		No	minor tracking on Wakara, track out pad needs to be refreshed
11/12/2013	ARUP Generator Building	420 Chipeta Way	NA	<1	NA	SW00150	No	area around the storm inlet was wet and muddy. inlet protection needs maintenance
11/12/2013	Blue Beacon Truck Wash	2020 So 900 W	no	2	UTR361927	SW00107	almost	site almost complete landscaping going in. gave super the NOT form
11/12/2013	Questar Gas Shop/Warehouse	270 S. Orange St	No	3	UTR362679	SW00122	no	Project near complete will file NOT week of 4/11/13
11/20/2013	Spec 6-4-2 Building	1414 S Gustin Rd	no	>10 acres	UTR364613	NA>5 acres	no	SWPPP needed on site
11/20/213	Honnen Equipment	1376 S. Distribution Dr	Yes	13	UTR365233	SW00162	No	See report
11/22/2013	Hogle Zoo Afican Savannah	2600 Sunnyside Ave	yes	5	UTR361559	SW00117	NO	site in compliance, no action items
11/25/2013	Cresent Point Water Line Extension	3070 W 500 S	no	5	UTR364803	SW00155	Yes	Project complete
12/2/2013	Element 31 Apartments	3130 S. 1243 East	No			SW00158	no	Drive by no activity
12/2/2013	Clean Energy LNG Fueling Station	1101 W 2100 S	No	1.69	N/A	n/a	No	Drive by no activity
12/2/2013	Front Line Climbing Club	1470 S. 400 W.	no	1.79	N/A	n/a	No	Drive by no activity
12/2/2013	Parley's 1 & 6	2350 S. 2100 E.	No	2	UTR365757	SW00175	No	site fenced off no one on site at time of inspection no disturbance at time of insp.
12/2/2013	Glendale Library	1375 S Concord St	no	1.26	UTR365309		no	site in compliance
12/2/2013	Great Dane Trailers	770 W 2100 S	no	7.2	UTR364685	SW00153	no	site paved and landscaping taking place at time of inspection John Thompson not on site at time of Insp.
12/6/2013	Columbus Court PUD	34 East Columbus Court (750) north	yes	4	UTR359517	SW00127	yes	NOT for 64 E.
12/6/2013	Columbus Court PUD	34 East Columbus Court (750) north	yes	4	UTR359517	SW00127	yes	Site Inspection Lot #8,4 & 11
12/6/2013	Zions Bank Parking Lot	378 E S. Temple	No	0.6	UTR364357	SW00174	No	Pre Construction Inspection site less 1 acre
12/10/2013	Liberty Gateway Apartments	50 s 500 West	no	<1	NA	SW00106	No	good housekeeping action items,inlet protection in disrepair or missing
12/10/2013	Restaurant Depot	1145 S. 700 West	yes	3.99	UTR364045	SW00139	no	Warning for track out and dust control (see report) Hand Deliver 8/2/3/2013 Scott Swanger present
12/10/2013	Hidden Peak Electric	1064 S 700 W	no	1	UTR362453	SW00124	NO	Site Complete need to contact Huges for NOT.
12/18/2013	Pacific Steel	2850 W 900 S	no	0.75	NA<1 acre	SW00118	Yes	NOT filled project complete
12/18/2013	Liberty Gateway Apartments	50 s 500 West	no	<1		SW00106	No	Site visit only contractor wanted NOT but site ready for NOT Contractor renewed SLC permit on 12/18/23013
1/6/2014	North 600 Apartments	50 N. 600 West	yes	1.37	UTR363729	SW00146	no	See report
1/6/2014	Restaurant Depot	1145 S. 700 West	yes	3.99	UTR364045	SW00139	no	Warning for track out and dust control (see report) Hand Deliver 8/2/3/2013 Scott Swanger present
1/6/2014	Element 31 Apartments	3130 S. 1243 East	No			SW00158	no	Drive by no activity