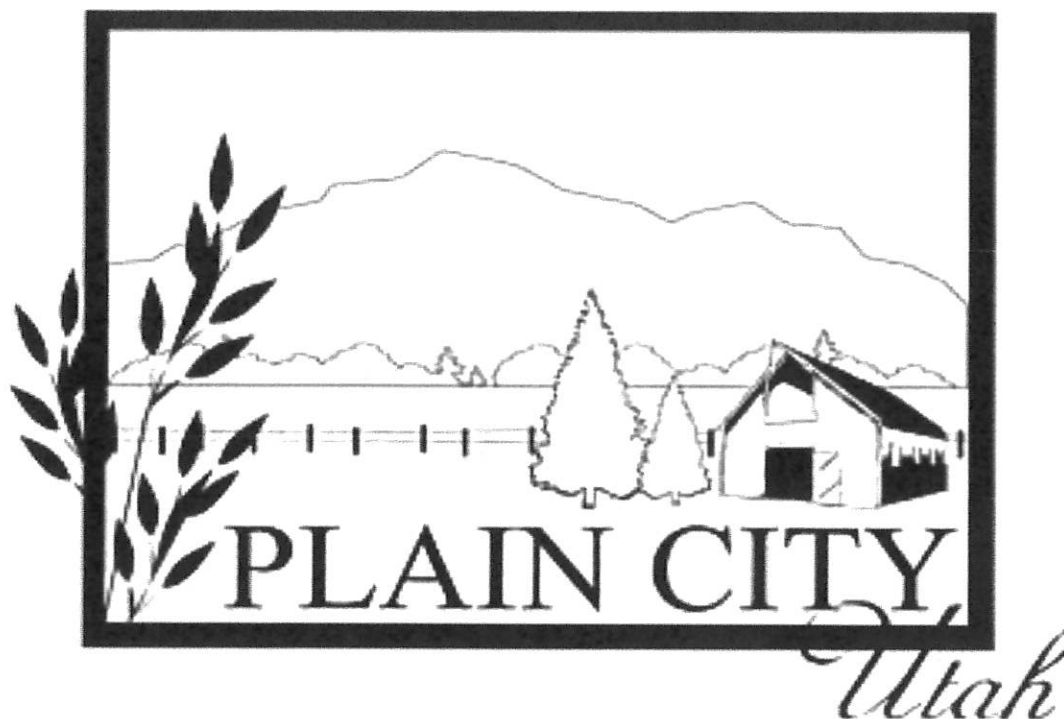




Storm Water Management Plan (SWMP)

May: 2016

Updated: Oct 2020

Daniel Schuler, Public Works Director B.S.

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STORM WATER MANAGEMENT PLAN BOOK

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1.0 Permit Information

Permittee: Plain City Corporation

UPDES Permit Number: UTR 090045

Location of MS4: Weber County, Utah (see map, Figure 1)

The Plain City Storm Water Management Plan (SWMP) is required by permit to be available for public review. This document will be made available on the City's website, <http://www.plaincityutah.org>, and at the Plain City Municipal Offices at 4160 West 2200 North, Plain City, Utah 84404. Complete SWMP appendices (which include supporting documentation, forms, records, etc.) are available for review only at the Plain City public works building. Written public comments should be sent to:

Daniel Schuler, Plain City Public Works Director

4160 West 2200 North

Plain City, Utah 84404

dans@plaincityutah.org

2.0 Location and General Description

Plain City is located in north Weber County Utah and is bordered on the North by unincorporated Box Elder County, on the west by unincorporated Weber County, on the east by Farr West City and on the South by Marriott-Slaterville City (see the attached location map). Land uses consist of mostly residential with a small amount of commercial. The City currently has no industrial facilities within its boundary. A significant amount of property within the City is currently used for agriculture or is vacant.

Population: 7,200

Land Area: 12.1 square miles

Receiving Waters: Four Mile Creek, Dixie Creek, 1st Salt Creek, 2nd Salt Creek and the Weber River. The Weber River discharges into the Great Salt Lake.

Latitude: 41° 18' 3" North

Longitude: 112° 5' 11" West

Plain City's storm drainage facilities consist of curb and gutter, storm drain pipe,

regional and local detention basins, drainage ditches, canals and the receiving waters previously identified. Runoff is generally collected by curb and gutter and is then conveyed to detention basins or directly to receiving waters. Existing drainage facilities have been mapped. These maps are maintained by the Plain City Public Works Department.

3.0 Priorities and Concerns

The existing water quality concerns are based on the potential for stormwater to be contaminated by pollutants typically resulting from both pre-construction and post-construction conditions. A significant amount of area within the City is currently vacant or used for agricultural purposes. In the future, it is anticipated that the agricultural and vacant property will be developed into residential and commercial uses. Consequently, construction related pollutants as well as post-development construction concerns that are related to normal activities in residential and commercial areas will be an increasing concern. Potential pollutants that are of concern and are addressed in this plan are as follows:

Sediment;	Fuel;
Oils and lubricants;	Salt;
Household products (cleaners, solvents, etc.);	Yard waste;
Fertilizers;	Pesticides;
Paints and paint products	

The intent of this plan is to modify the existing stormwater management plan to bring the City into compliance with the most recent UPDES permit for small MS4s. It is also anticipated that they will also be on-going changes required to existing stormwater ordinances in order to support the revised plan. This plan will also describe specific measurable goals will be established to achieve compliance to each measurable control measure (MCM).

4.0 Statement of Basis

In 1990, EPA promulgated rules establishing Phase I of the National Pollutant Discharge Elimination System (NPDES) storm water program. The Phase I program for municipal separate storm sewers (MS4s) requires operators of “medium” and “large” MS4s, that is, those that generally serve populations of 100,000 or greater, to

implement a storm water management program as a means to control polluted discharges from these MS4s. Implementation of the Storm Water Phase II Rule to small MS4s began in 2002 and extended coverage of the NPDES storm water program to Plain City in 2003.

Plain City is classified by the Utah Division of Water Quality (DWQ) as a small MS4. The DWQ regulates small MS4 communities under the Utah Pollutant Discharge Elimination System (UPDES), and MS4s are covered under the State's permit for Discharges from Small Municipal Separate Storm Sewer Systems — UTR090000. The narrative requirements of this permit are intended to reduce the discharge of pollutants to the maximum extent practicable (MEP) and meet water quality standards through the development and implementation of a storm water management program (SWMP).

Implementation of a SWMP involves implementation of a variety of best management practices (BMPs) and designated minimum performance measures. The goal of implementation is to reduce the discharge of pollutants from the MS4. MEP is the standard that establishes the level of pollutant reductions that operators of regulated MS4s must achieve through implementation of BMPs included in their SWMPs. There are no numeric effluent limitations included in this permit. Storm Water Management Program requirements are the controls used in place of numeric limits to achieve a reduction of pollutants in the storm water discharge from small MS4s.

Plain City's SWMP is comprised of six minimum control measures that must be developed and implemented. These measures include:

1. Public Education and Outreach
2. Public Involvement/Participation
3. Illicit Discharge Detection and Elimination (IDDE)
4. Construction Site Storm Water Runoff Control
5. Post-Construction Storm Water Management
6. Pollution Prevention and Good Housekeeping for Municipal Operations

Plain City's SWMP is intended to meet the requirements of the six minimum measures and protect state waters from pollution, contamination, and/or degradation.

5.0 Plan Elements

The intent of this plan is to modify the existing stormwater management plan to bring it into compliance with the most recent UPDES permit for small MS4s. The plan includes specific measurable goals selected to achieve compliance with each minimum control measure (MCM). Plan elements and measurable goals related to each MCM are given in MCM Tables 1 - 6. Additional plan elements, forms, standards, procedures, inventories, logs, supporting documentation, and compliance documentation are included in the SWMP Appendices.

6.0 Storm Water Ordinance

Plain City has adopted an ordinance for storm water protection and management. The ordinance is designated as Title 8, Chapter 2A of the Plain City Code. The ordinance specifically prohibits non-stormwater discharges, requires approval for stormwater connections, establishes a stormwater utility fee, requires a permit for construction activities, sets penalties for violations, allows inspection of private stormwater facilities, and sets other requirements necessary for compliance with the federal clean water act. A copy of the ordinance is included in Appendix F and the current ordinance can also be viewed on-line through links shown on the City website:

<http://www.plaincityutah.org>

In order to more closely comply with new stormwater permit requirements, several modifications to existing City Stormwater Ordinances are planned. Proposed modifications include: specific escalating enforcement strategies for illicit discharges and SWPPP violations, requiring long-term controls along with (LID) Low impact development practices for new and re-development projects and requirements for construction sites equivalent to the technical requirements in the construction permit. These modifications are pending and are currently in the process of being considered by the Plain City Attorney, City Council and City Staff.

7.0 Plan Effectiveness

The effectiveness of the Plain City Stormwater Management Plan will be evaluated on an annual basis by the Public Works Director, MS4 Staff and City Engineer. The basis of the evaluation will be the measurable goals as listed in each MCM and general qualitative observations of water quality the receiving waters listed above. The results and criteria of each evaluation will be documented in the Plan.

8.0 Impaired Waters & TMDLs

As of the date of this plan, there is only one part of the City that discharges to impaired waters. There is a small section of the lower Weber River, below where Fourmile drainage joins the Weber River. Listed impairments include: OE Bioassessment and Ammonia. There are currently no TMDL requirements within the City. The State of Utah has an interactive map that can be used to help determine the boundaries of any portions of the city that discharge into impaired waters. It can be found at: <http://mapserv.utah.gov/surfacewaterquality/>

9.0 Organization and Responsibilities

The organizational chart for the Plain City storm water program is shown in Figure 2. General responsibilities are given below.

Mayor

- General oversight

Public Works Director

- Liaison with City administration and coordination with City Engineer
- Training of Public Works Personnel
- General coordination of the elements of the Storm Water Management Plan (SWMP) program.
- Responsible for shared facilities and general work assignments
- Oversight of street maintenance activities including:
 1. Street Sweeping
 2. Asphalt Maintenance
 3. Snow plowing and salting
- Overall SWMP program and coordination with Department heads and staff
- Responsible for City facilities and general work areas including:
 1. Salt and materials storage stockpile areas
 2. Storm drain system maintenance
 3. General BMP maintenance
- Annual report
- Evaluating and updating SWMP

Storm Water Specialist

- Storm drain outfall monitoring
- Water quality observations at outfalls

- Review and approval of SWPPPs
- Development inspections and enforcement
- City owned facilities inventories and inspections
- Program documentation
- Assisting the Public Works Director in all other duties as directed

City Engineer

- Hydrologic methods and design standards
- Design of flood control and storm water improvement projects
- Plan review
- Engineering support
- Assistance with all reporting
- Assistance with storm drain system mapping

Maintenance Operator's

- Parks department maintenance work area
- Pesticide, herbicide, and fertilizer program
- Chemical and fertilizer storage in work area
- Parks department equipment operation
- Equipment maintenance for parks department equipment
- Mowing program

Building Inspector

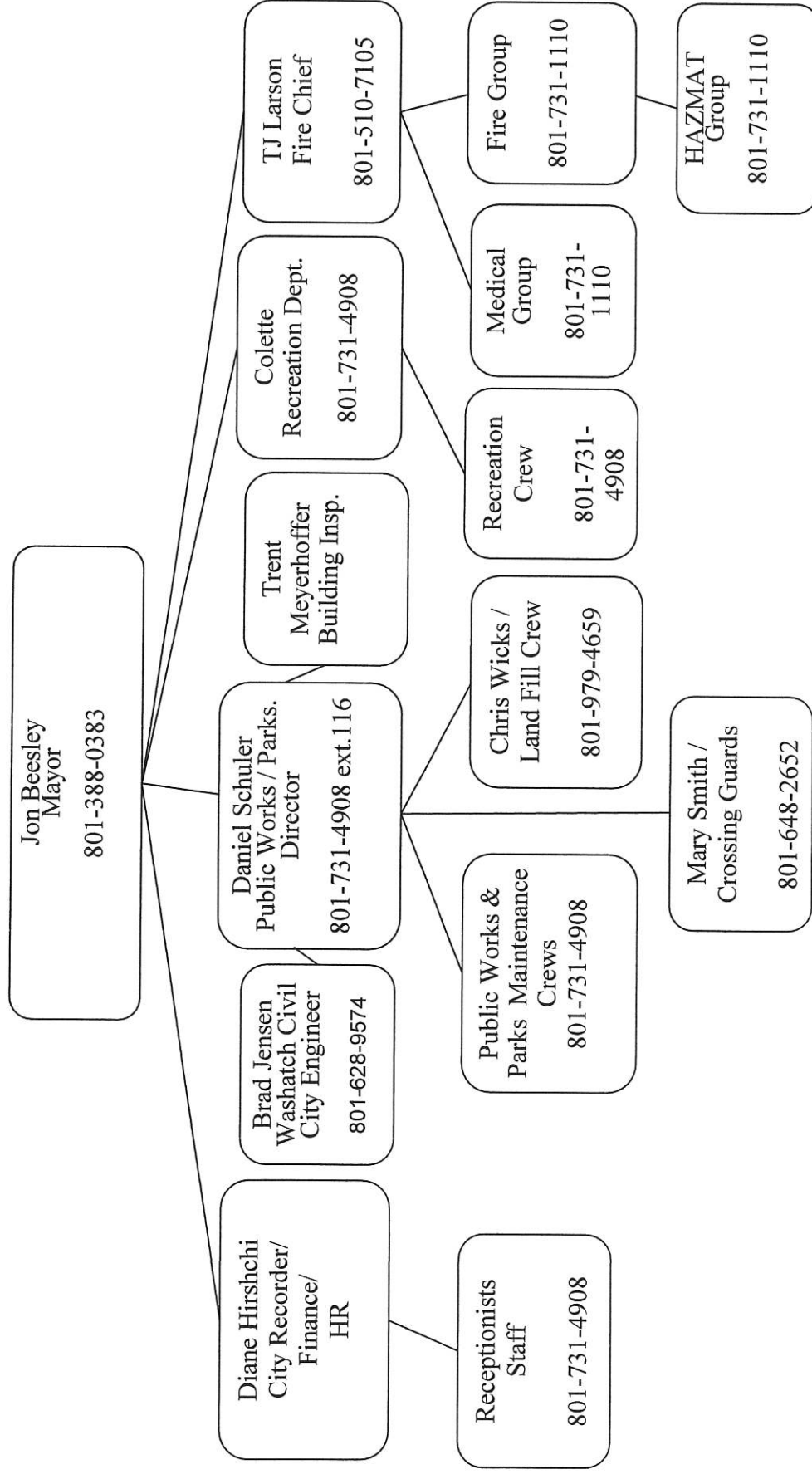
- Residential building construction inspections
- Active residential and commercial building project inventory

10.0 Shared Responsibilities

Plain City currently has an inter-local agreement / shared responsibility with:

- Weber County - maintenance agreement for cost on ditch cleaning, road maintenance and if needed resources in an emergency.
- Weber County to provide Storm Water Coalition Director for the Weber County MS4's.

Plain City Organization Chart 10/7/2019



11.0 Certification and Authorized Signature

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.

Signature

Date

Title

12.0 Minimum Control Measures (MCM's)

The six minimum control measures indicated in Section 4 are included herein as follows:

1. Public Education and Outreach
2. Public Involvement/Participation
3. Illicit Discharge Detection and Elimination (IDDE)
4. Construction Site Storm Water Runoff Control
5. Post-Construction Storm Water Management
6. Pollution Prevention and Good Housekeeping for Municipal Operations.

The specific goals and control measures intended to protect state waters from pollution, contamination, and/or degradation are presented on the following pages.

Separate Storm Sewer Systems (MS4)

PUBLIC EDUCATION AND OUTREACH PROGRAM				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
2021	TV Ads/Showhalls	4.2.1 To educate audiences about impacts from storm water discharge. Look into coalition to run statewide TV ads or run in movie showhalls	Coalition set up running TV ads, or in movie showhalls Impacts on Stormwater, paying into the Weber County Coalition fund TV ads or movie showhalls. Viewed in Weber County.	Description: The Weber County Coalition facilitates public awareness of storm water management by publicizing BMP collectively. Selection: Plain City's participation strengthens the coalition resources. Target Pollutants: Fertilizers, landscape and yard maintenance, debris, garage and automotive chemicals. Target Audience: Residents, commercial facilities, institutions and MS4-owned or operated facilities. Effectiveness: Information given in ads are received by a statewide audience. Documentation: Copy of coalition annual budget and statement for city financial support. Staff: County Coalition and Director. Funding: Storm Water enterprise fund.
Ongoing	Water Fair.	4.2.1 Educate students in ways to avoid, minimize, and reduce impacts of storm water pollutants and discharge.	Continue supporting coalition with training students by paying into the Weber County Coalition.	Description: The coalition also participates in a Water Fair annually where students are given instructions on proper storm water management. Selection: Plain City's participation strengthens the coalition resources, some of the students are city residents. Target Pollutants: Fertilizers, landscape and yard maintenance, debris, garage and automotive chemicals. Target Audience: Residents and 4th grade students. Effectiveness: Obtain and review teacher evaluations, coalition counts number of attendees at Water Fair. Documentation: Copy of coalition annual budget and statement for city financial support. Staff: County Coalition, and Plain City's Public Works personnel. Funding: Storm Water enterprise fund.
Ongoing	Public information: city website, and storm water handouts located at City Hall.	4.2.1.2 / 4.2.1.3 Inform target audience on prohibitions against illicit discharges and improper disposal of waste. Provide contact phone numbers on city website, for public information on effects of outdoor activities and impact to water quality.	Include SWM information on city website. Publish information on the website twice yearly. Provide Weber County Coalition educational pamphlets. Hand out to public and businesses.	Description: Include storm water management information on city website. Publish article in the city newsletter twice per year. Continue participation with Weber County Coalition for development of educational pamphlets for targeted audiences and pollutants. Selection: Effective use of this media can reach a large audience. Target Pollutants: Outdoor activities, such as lawn care; benefits of on-site infiltration of improper disposal of waste materials and dumpster maintenance; use of salt or other deicing mat. Target Audience: Residents, commercial facilities, institutions and MS4-owned or operated facilities. Effectiveness: Provide selected information for different target audiences. Documentation: Copy of trainings for public articles and pamphlets to be kept in file. Staff: Public Works and city office staff. Funding: Storm Water enterprise fund.

Separate Storm Sewer Systems (MS4)

PUBLIC EDUCATION AND OUTREACH PROGRAM				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
2016/2020	(EM) Developer / Contractor information packet for construction sites. Train contractors on new requirements for LID program.	4.2.1.4, 4.2.1.6 Assemble packet of information on city requirements for storm water management for developers and contractors.	Provide information to all potential developers and contractors in plan reviews, pre-construction meetings.	Description: Assemble packets of information on storm water management, SWPPP, BMP's, LID city requirement and regulations that developers and contractors must read and sign in agreement of compliance. Selection: Inform contractor and developers of new state and city requirements to insure sufficient water quality. Target Pollutants: Illicit discharge, waste materials, sediments. Target Audience: Developers and contractors, and city planning and development review staff. Effectiveness: Packet to be given to all developers and contractors and signed for every new development. Documentation: Signature page of packet from contractor to be filed in city files for project. Staff: Public Works Director and city staff. Funding: Storm Water enterprise fund.
Ongoing	Training for all City employees, on updated general permit rules and regulations.	4.2.1.5 Information provided to target audience on city operations of storm water to improve water quality.	Training occurs twice per year, once every six months. Training for new City employees within a month of hire date.	Description: Information is provided to target audience on prohibitions against illicit discharges and improper disposal of waste including: equipment inspection, benefits of appropriate on-site infiltration of storm water, minimization of use of deicing materials, proper storage of industrial materials, proper management of waste materials and dumpsters. Selection: Train City employees on storm water management and proper and improper operations, and train all City employees on new updates in state permit with LID, GMP's, IDDE. Target Pollutants: Sediment, grass, oil, fertilizer, trash, construction waste, automotive fluids, waste water, illicit discharges and spills and fuels. Target Audience: City employees: Public Works, Community Services, Community Development. Effectiveness: An effective program is dependent on an informed and participating staff. Documentation: Keep record of employees trained, training meeting dates, attendants, and information given. Staff: Public Works staff. Funding: Storm Water enterprise fund.
Ongoing	EM, prioritize targeted sources, distribute educational materials.	3.2 Address the reduction of water quality impacts with nitrogen and phosphorus in discharges from MS4.	Work with Weber County Coalition to determine and target sources, residential, industrial or commercial that have potential to contribute nitrogen and phosphorus to the waters.	Description: Nitrogen and phosphorus reduction. The permittees must specifically address the reduction of water quality impacts associated with nitrogen and phosphorus, this is completed by working with the Weber County Coalition to get results. Selection: Evaluate, identify, target and provide outreach. Target Pollutants: Nitrogen and phosphorus. Target Audience: Residential, industrial, agricultural, and commercial. Effectiveness: The behaviors of concern, and actions that the target source can take to reduce nitrogen and phosphorus. Documentation: List of materials to be handed out. Work with coalition to document results. Staff: Public Works Director, Public Works Staff. Funding: Storm Water enterprise fund, Weber County Coalition.

Table 1-1

Plain City SWMP Min. Control Measures (MCM)

Rev. MAY. 1, 2020

Separate Storm Sewer Systems (MS4)

PUBLIC EDUCATION AND OUTREACH PROGRAM				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
Ongoing	(LID) (ET) LID training on new state requirements	4.2.1.6 Training on LID, green infrastructure and post construction BMP's.	Train all MS4 employees, engineers, developers, planning staff and other parties as applicable to review and learn about the updated LID practices.	Description: Conduct a meeting with city engineers, development and planning staff to review the LID. Discuss what has been done in the past and define any upcoming measures. Selection: To inform city staff of LID requirements of the updated permit and discuss future development opportunities for LID use in the city. Target Pollutants: Sediment, trash and landscaping materials. Target Audience: All MS4 employees, and MS4 consultant engineers. Effectiveness: Introduce new LID concept and implement the new LID requirements in the city. Documentation: Keep record of training meeting date, attendants and information discussed. Retain in file. Staff: Public Works staff. Funding: Storm Water enterprise fund.
2020	Determine effectiveness of coalition programs and doing a "Council Night Out - Meet the Public."	4.2.1.7 Evaluate the effectiveness of the public education and outreach programs.	Participate in the evaluation of the Coalitions, public and contractor training education program. Also meet with the public for the "Council Night Out - Meet the Public" program four nights a year.	Description: Work with Weber County Coalition to determine methods for evaluation of effectiveness of classroom presentation. (4th grade classes, Weber County sponsored training.) Meet with the public four nights out of the year for "Council Night Out - Meet the Public." Start up in 2020 Selection: Determine effectiveness of training and improve information presented. Target Pollutants: All pollutants. Target Audience: Residents, commercial, industrial, construction, MS4 employees. Effectiveness: Documented rational included in the SWMP. Documentation: Minutes of coalition meetings retained in file. Staff: Public Works staff. Funding: Storm Water enterprise fund.
Ongoing	Document BMP choices for public education.	4.2.1.8 Review BMP's for public education and document why the selected BMP's where chosen.	Include an explanation in the SWMP with an on-going documentation process.	Description: Document why certain BMP's were chosen for public education over others. Selection: Evaluate best BMP to use for the public education program. Target Pollutants: All pollutants. Target Audience: All audiences. Effectiveness: Documented rational selection of BMP's in SWMP. Documentation: Decision making process to be written and filed. Staff: Public Works Staff. Funding: Storm Water enterprise fund and Davis County Coalition.

PUBLIC INVOLVEMENT/PARTICIPATION					Description and Support Information
Year Executed	BMP	Implementation	Measurable Goals		
Ongoing	(PEP) Program for public input	4.2.2.1 Have a program or policy in place that allows for the public to provide input.	City council to hold a public hearing for SWMP updates. Provide 14 day period for public comment and review.		
Ongoing	(PEP) Provide draft copy of SWMP for public review	4.2.2.2 Have SWMP document available for public review and input within 120 days from the effective date of the updated permit.	Have copy of SWMP available at City Recorder's office 14 days before city council public hearing.		
Ongoing	(PEP) Post SWMP on city website within 120 days from the effective date of updated permit.	4.2.2.3 Have SWMP document available to the public on city's website, 120 days from effective date of the updated general permit.	SWMP posted on city website and updated as needed and will remain on the website for the entire term for public to review and provide input for the life of the state permit 4.4		
Description: Develop and implement policy for public to review and give input on SWMP. City council to hold a public hearing and provide 14 day advanced notification to public before action to be taken by the city council. Selection: Provide the public with the opportunity to review SWMP. Have contact information in SWMP for public input. Target Pollutants: All pollutants. Target Audience: General public, institutions, industrial and commercial facilities. Effectiveness: Public involvement in city storm water management program. Documentation: City council meeting minutes, copy retained in Storm Water Super. files. Staff: Public Works Director and city staff. Funding: Storm Water enterprise fund.					
Description: Provide a hard copy of the draft SWMP for public review at the office of the City Recorder 14 days before the city council public hearing. Have contact information in SWMP for public input. Selection: Provide SWMP on city website. Keep current information available to the public as updates to the SWMP are made. Have contact information in SWMP for public input. Target Pollutants: All pollutants. Target Audience: General public, institutions, industrial and commercial facilities. Effectiveness: SWMP available for public review at least 14 days before public hearing. Documentation: Memorandum to the file with statement of SWMP delivered to the City Recorder. Staff: Public Works Storm Water Manager. Funding: Storm Water enterprise fund.					
Description: Post SWMP on city website. Keep current information available to the public as updates to the SWMP are made, have contact information in SWMP for public input. Selection: Provide access to SWMP by the public. Target Pollutants: All pollutants. Target Audience: General public, institutions, industrial and commercial facilities. Effectiveness: SWMP available to the public. Documentation: Print copy of website page reference of SWMP and file with storm water records annually. Staff: Public Works Storm Water Manager. Funding: Storm Water enterprise fund.					

Separate Storm Sewer Systems (MS4)

PUBLIC INVOLVEMENT/PARTICIPATION				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
Ongoing	(PEP) Post updated SWMP within 120 days from the effective date of the updated permit.	4.2.2.3 Make updated SWMP document available to the public, have a specific contact person and phone number or email address:	Post updated SWMP annually. Document all input received from public. Have a specific contact person and phone number or email address. within 120 days of effective date of the updated general permit posted on website.	Description: Post updated SWMP annually on city website. To be done by October 1st of each year as annual report is submitted to the State of Utah. Make sure contact information is up to date and available to public in the SWMP, in compliance with the updated state permit. Selection: Ensure that SWMP information is updated annually on city website. Target Pollutants: All pollutants. Target Audience: General public, institutions, industrial and commercial facilities. Effectiveness: SWMP updates available to the public and contact info for public input. Documentation: Print copy of website page reference of SWMP and file with storm water records annually. Document input from public. Staff: Public Works Staff. Funding: Storm Water enterprise fund.

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)					Description and Support Information
Year Executed	BMP	Implementation	Measurable Goals		
Ongoing	Continue with standard operating procedures for tracing the source of illicit discharge to meet the updated general permit rules.	4.2.3.5.1 / 4.2.3.4 Track down sources of illicit discharges and spills.	Work with Weber County Coalition to purchase a portable unit to test for pH, DO, conductivity, and temperature for finding and testing illicit discharges.		
Ongoing	Continue to inform public employees, businesses, and general public of hazards associated with illicit discharges and improper disposal of waste.	4.2.3.7 / 4.2.3.8 Continue to educate all audiences about impacts from illicit discharges and improper disposal of waste.	To educate all audiences, notify public of recycling locations, are on state website for disposing (recycling) of oil.		
Ongoing	Continue to improve on implementing procedures for program evaluation and assessment to meet the rules of the updated general permit for priority areas.	4.2.3.10 / 4.2.3.3.2 Have a database for mapping and tracking spills or illicit discharges identified and inspections conducted. List priority areas for IDDE, map them and inspect annually.	Update mapping and spreadsheets for tracking illicit discharges, spills, improper disposals and illicit connections. Also list priority areas.		
Description: The mapping allows the tracking number and types of spills and illicit discharges throughout the city. This helps locate repeat offenders for improper disposals, illicit connections and helps with identifying priority areas. Selection: This will help pin point trouble areas in the city. Target Pollutants: All pollutants, fertilizers, landscape and yard maintenance, debris, garage and automotive chemicals. Target Audience: Residential, industrial and local businesses that have potential sources for illicit discharge. Staff: Public Works Director. Funding: Storm Water enterprise fund.					

ILLCIT DISCHARGE DETECTION AND ELIMINATION (IDDE)				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
Ongoing	Update new ordinances prohibiting discharge of non-storm water into the storm water system. Publicly list and maintain a hotline number for public to report spills and other illicit discharges.	4.2.3.2 / 4.2.3.8 / 4.2.3.9 / 4.2.3.10 Enforcement ability for storm water rules.	Review and update the ordinance to conform with new permit, and ongoing training of (SOPs). Identification, investigation, to all field staff termination, cleanup, and reporting of illicit discharges, i.e.: spills, improper disposal and illicit connections to the MS4. Put the HHW address and phone # on the city website.	Description: Enforce an IDDE program to systematically find and eliminate sources of non-storm water discharges including spills, illicit connections, illegal dumping and SSOs. Publicly list and publicize a hotline or other local phone number for public reporting of spills or other illicit discharges. Keep a written record of all calls received. Create incident response flow chart and provide training annually. 4.2.3.8 / 4.2.3.9 / 4.2.3.10 Selection: Ordinances existed prior to the development of UPDES permit requirements. They are still in place as of 2016 and available for use to support enforcement. Target Pollutants: Fertilizers, landscape and yard maintenance, debris, garage and automotive chemicals, all pollutants. Target Audience: Residential, contractors, developers, and city council. Staff: City Engineer and Director. Funding: Storm Water enterprise fund.
Ongoing	Maintain a storm water system map of the MS4.	4.2.3.1 Continue to update storm water system map of the MS4 with location of all outfalls.	Continue updating storm water system map of the MS4 with names and location of all outfalls.	Description: Plain City maintains a map which is regularly updated with development. Knowing the locations of storm water systems is the first step in protecting it from pollution sources. Selection: A complete map has been maintained since 2018 for the purpose of managing development. It has been included into this SWMP to satisfy this BMP. Target Pollutants: N/A Target Audience: City staff, City Engineer and Director. Staff: Director. Funding: Storm Water enterprise fund.
Ongoing	Detection of illicit discharges program. Identify problem areas.	4.2.3.3 Dry storm water sampling program at least once every 5 years. Outfalls need to be inspected annually.	Do dry weather screening of 30% all outfalls each year. Document all sampling. Update and have SOP in place and training.	Description: This involves sampling outfalls during dry weather. It can also include investigating discharges reported through employees, public notification or other means. Selection: This program is used to find pollution sources and to track trends. Target Pollutants: All pollutants, fertilizers. Landscape and yard maintenance, debris, garage and automotive chemicals. Target Audience: All audiences. Staff: Director and Staff. Funding: Storm Water enterprise fund.

Separate Storm Sewer Systems (MS4)

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
Ongoing	Ensure that all city staff receive training on the new updates for IDDE program. This also includes new hires within first month of hire.	4.2.3.11 Continue to train city employees on the IDDE requirements in the general permit.	Review and update the ordinance to conform with updated permit for training of IDDE program for all city employees including new hires on: identification, investigation, termination, cleanup, and reporting of illicit discharges i.e.: spills, improper disposal and illicit connections to the MS4. Document all training as required in permit.	Description: Continue to enforce and partner with Weber County Health Dept. on IDDE program to systematically find and respond to calls (Weber County Health Resolution/MOU) and eliminate sources of non-storm water discharges including: spill, illicit connections and illegal dumping. Train all employees on new requirements in updated permit on IDDE. Publicly list and publicize a hotline or other local phone number for public reporting of spills or other illicit discharges. Keep a written record of all calls received, create incident response flow chart and provide training annually to all city employees. Selection: Ongoing training of city staff annually on general permit and updates for IDDE program. Target Pollutants: Fertilizers, landscape and yard maintenance, debris, garage and automotive chemicals. All pollutants. Target Audience: Contractors, developers, City Council, staff, City Engineer and Storm Water Manager. Staff: Public Works Director and Davis County Health Dept. Funding: Storm Water enterprise fund.

Table 4-1

Plain City SWMP Min. Control Measures (MCM)

Rev. MAY. 1, 2020

Separate Storm Sewer Systems (MS4)

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
Ongoing	(OD) Continue to train and raise awareness for contractors and developers, on what is expected for all construction sites within the city's MS4.	4.2.4.1 / 4.2.4.1.2 Development standards require compliance land disturbance permit and SWPPP facilitates compliance. The ordinance shall include a provision for access by Storm Water Manager to inspect construction storm water BMPs on private properties that discharge to MS4. 4.2.4.4.5 Post hotline phone number at entrances of construction sites in a SWPPP.	Require a SWPPP for every construction site over one acre or part of CPD. Train developers and construction applicants. Update and enforce ordinances to meet state requirements. Post hotline phone number and local phone number for public to report storm water violations on construction sites.	Description: Storm water pollution prevention for construction sites. Hotline number to be posted at construction sites larger than one acre or part of a common plan of development, permitted construction activities, land disturbance permits (development and building permits and related projects). City APWA contract projects. City service contracts. Public right of way encroachments permits. Selection: This will provide training for work permitted in Plain City. Target Pollutants: Sediment, construction site debris, hydrocarbons. Target Audience: Contractors and developers. Staff: Public Works Director and city staff. Funding: Storm Water enterprise fund.
Ongoing	(OD) Develop a written strategy and implement the enforcement provisions of the ordinance or other regulatory mechanism.	4.2.4.2 / 4.2.4.2.1 / 4.2.4.2.2 Ordinance requires compliance, permits and checklist.	4.2.4.4 / 4.5 Update ordinance to include escalating enforcement provisions. Incorporate checklist into City standards and enforce ordinance to meet state requirements.	Description: Ordinance requires compliance with Plain City standards, specifications and plans. Standards to be followed are checklist that guide applicants through the city development approval and construction process. Selection: The standards also facilitate the filing of a Land Disturbance Permit to better control construction activities. Target Pollutants: Sediment, construction site debris, hydrocarbons. Target Audience: Contractors and developers. Staff: Public Works Director and city staff. Funding: Storm Water enterprise fund.
Ongoing	ET, CCIT	4.2.4.5 Update training and provide training to MS4 staff and 3rd party designers.	Update city policy to require all SWPPP inspectors to be RSI certified within six months.	Attachment 4.1 requirements and checklist for land development. Description: The permittee must ensure that all staff whose primary job duties are related to implementing the construction storm water program including permitting, plan review, construction site inspections and enforcement, are annually trained to conduct these activities. Selection: In order to comply with the updated state permit. Training must extend to third party inspectors and plan reviewers as well as with all new hires. All training records to be kept. Target Pollutants: Sediment, construction site debris, hydrocarbons. Target Audience: Contractors, developers and MS4 staff. Staff: Public Works Director. Funding: Storm Water enterprise fund.

Table 4-1

Plain City SWMP Min. Control Measures (MCM)
Separate Storm Sewer Systems (MS4)

Rev MAY. 1, 2020

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
Ongoing	ZO, OD Moved to Table MCM 5	4.2.4.3.1 / 4.2.4.3.2 Update and incorporate into the SWMP. Review procedures for an evaluation of opportunities for use of Low Impact Development (LID) and green infrastructure and when the opportunity exists, encourage such BMP's to be incorporated into the site design.	Develop a policy and adopt into city ordinance for Low Impact Development practices on all projects - private and municipal.	Description: Conduct a pre-construction SWPPP review which includes a review of the site design, the planned operations at the construction site, planned BMP's during the construction phase, and the planned BMP's to be used to manage runoff created after development. Selection: This will provide training for work permitted in Plain City. Target Pollutants: Sediment, construction site debris, hydrocarbons. Target Audience: Contractors and developers. Staff: Public Works Director and MS4 staff. Funding: Storm Water enterprise fund.
Ongoing	LIP, ECP	4.2.4.3.3 Identify priority construction sites considering the following factors at a minimum. See description: 4.2.4.4.3 Conduct bi-weekly inspections on high priority construction sites.		Description: Priority sites factors are: soil erosion potential, site slope, project size and type, sensitivity of receiving waterbodies, proximity to receiving waterbodies and non-storm water discharges and past record of non-compliance by the operators of the construction site. Inspections will be conducted bi-weekly and documented. Selection: The selection of priority sites will be at city's discretion, and documented. Target Pollutants: Sediment, construction site debris, hydrocarbons. Target Audience: Contractors and developers. Staff: Public Works Director and MS4 staff. Funding: Storm Water enterprise fund.
Ongoing	ECP	4.2.4.6 Update and maintain records of all projects under SWPPP.	Update and have records in place to be compliant with state permit.	Description: Maintain records of all projects greater than one acre, including projects less than one acre that is part of a common plan of development or sale. Keep records that include site plan reviews, SWPPP's, inspections, and all enforcement actions. Must keep all records for five years or until construction is completed. Selection: Projects under a SWPPP, and need to maintain records. Target Pollutants: Sediment, construction site debris, hydrocarbons. Target Audience: Contractors, developers and MS4 staff. Staff: Public Works Director and MS4 staff. Funding: Storm Water enterprise fund.

Separate Storm Sewer Systems (MS4)

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
2020	Continue to train and raise awareness for contractors and developers, on what is expected for ALL construction sites within the city's MS4.	4.2.3.2 U.C.G Permit 4,2 Plain City Standards 8-2A-4-2	Implement a Mini-SWPPP to insure that all construction site are under a SWPPP regardless of size.	Description: Storm water pollution prevention plan for all construction sites regardless of size. Along with contractor training. Selection: This will provide training for work permitted in Plain City. Target Pollutants: Sediment, construction site debris, hydrocarbons. Target Audience: Contractors and developers. Effectiveness: Contractor and Developer compliance Documentation: Mini-SWPPP filed for all construction sites. Staff: Public Works Director and MS4 staff. Funding: Storm Water fund
2016 /Ongoing	20, LID	4.2.4.3.1 / 4.2.4.3.2 Update and incorporate into the SWMP. Review procedures for an evaluation of opportunities for use of Low Impact Development (LID) and green infrastructure and when the opportunity exists, encourage such BMP's to	Develop a policy to consider LID/ Low Impact Development practices on all projects, private or municipal.	Description: Conduct a pre-construction SWPPP review which includes a review of the site design, the planned operations at the construction site, planned BMP's during the construction phase, and the planned BMP's to be Selection: This will provide training for work permitted in Plain City. Target Pollutants: Sediment, construction site debris, hydrocarbons. Target Audience: Contractors and Developers. Effectiveness: LID compliance Documentation: Documentation for each site to list LID practices and if it was applicable for the site. Staff: Public Works Director and MS4 staff. Funding: Storm Water fund
				Description: Selection: Target Pollutants: Target Audience: Effectiveness: Documentation: Staff: Funding:

Separate Storm Sewer Systems (MS4)

POST CONSTRUCTION RUN OFF CONTROL				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
Ongoing	(ZO) Development and adoption of ordinance requiring post construction runoff control on new and existing sites for new LID requirements.	4.2.5.1 / 4.2.5.2 / 4.2.5.3.2 Establish an ordinance to conform with the new permit requirements for LID.	Create an ordinance for adoption that conforms with the updated permit. Adopt any revised standards.	Description: Ordinance development. Adopt new LID standards into the city ordinance to comply with updated state permit, by 2020. New LID handbook in Appendix-E . Selection: Staff development for compliance with updated permit. Target Pollutants: All pollutants. Target Audience: Contractors, developers and MS4 staff. Effectiveness: Adoption of ordinance by Sept 2016. Staff: Public Works Director and MS4 staff. Funding: Storm Water budget.
Ongoing	(IPL) The permittee must develop a plan to retrofit existing sites that have a negative impact on storm water. They must also define hydrologic methods for calculating volumes.	4.2.6.9. Storm Water Master Plan and Capital Improvement Plan to include water quality. Review existing standards to insure compliance with the updated permit. Update design standards for on-site retainage, for the 90th percentile rainfall event.	See development of these standards and implementation. LID BMP structural and non structural.	Description: Development of requirements for existing and future sites. Selection: City staff and permittees to develop and implement these requirements. Target Pollutants: All pollutants. Target Audience: Contractors, developers and MS4 staff. Effectiveness: Implementation of standards. Staff: Public Works Director, city staff and permittees. Funding: Storm Water budget and permittee's.
Ongoing	Review SWPPP's. Permittee's shall have design specifications for all types of development and inspected during installation.	4.2.5.3.1 Review of Storm Water Pollution Prevention Plans (SWPPP). Permittee's shall provide design specifications for more effective ways to treat storm water.	Review SWPPP's. Review submitted design specifications for long-term controls are implemented.	Description: Review of SWPPP and design specification for developments and to require that permanent structural BMP's be inspected at least once during install by inspector and verified upon completion to ensure BMP's were constructed as designed. Selection: SWPPP and development plans. Target Pollutants: All pollutants. Target Audience: City staff, permittee's, and developers. Effectiveness: Ability to identify sensitive areas. Staff: City staff, permittee's, developers. Funding: Storm Water budget and permittees.

Table 5-1

Plain City SWMP Mini Control Measures (MCM)
Separate Storm Sewer Systems (MS4)

Rev.

MAY. 1, 2020

POST CONSTRUCTION RUN OFF CONTROL				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
Ongoing / Annually	Maintenance and inspection copies and logs.	4.2.5.4.1 Permittee shall keep representative copies of information provided to design professionals and a mailing list of those recipients.	Keep logs for revision information and any supplemental information given to contractors, design developers, design professionals and log and date of each one.	Description: Development of logs to track information. Selection: Inspection copies, logs, "documentation." Target Pollutants: All pollutants. Target Audience: All audiences required to keep documentation. Effectiveness: Completion of required documentation. Staff: Public Works Director and permittee's. Funding: Storm Water enterprise fund.
Ongoing	BMPIM Implementation of SOP's. Annual certification of maintenance and structural controls.	4.2.5.2.5 All permittees shall adopt and implement SOP's for site inspections and enforcement. Require all private owners / operators to provide annual certification of maintenance of structural controls. Require a maintenance agreement if necessary for any other control measures on site.	Review and customize inspection form for post construction control measures. Draft a maintenance agreement. Adopt a template for the maintenance agreement. Inspections must be conducted annually to insure compliance.	Description: Development of SOP's, agreements, inspection form for annual inspection. Selection: Quarterly required inspection on at least 20% of private facilities. Target Pollutants: All pollutants. Target Audience: MS4 staff and permittees. Effectiveness: Agreements and other documents in place. Staff: MS4 staff, Storm Water Inspector and permittees. Funding: Storm Water budget and permittees.
Ongoing/ Annually	BMPIM Staff training for staff involved with post construction inspection and enforcement and maintenance of post construction BMP's.	4.2.5 Permittees shall provide training for all staff involved and responsible for post construction inspections and enforcement. They shall also be trained in ways to maintain an inventory of the post construction BMP's.	Schedule and conduct training on post construction SWM for appropriate personnel. Update and inventory BMP's annually.	Description: Ongoing staff training of post construction BMP's inspections and enforcement be trained on an annual basis, new hires to be trained within 30 days upon hire. Selection: All staff involved with inspection and enforcement. Target Pollutants: All pollutants. Target Audience: Permittees and others with staff requiring training. Effectiveness: Ongoing training to be scheduled and conducted. Staff: All involved with monitoring post construction activities. Funding: Storm Water budget and permittees.

Table 5-1

Plain City SWMP Min

Control Measures (MCM)

Rev MAY. 1, 2020

Separate Storm Sewer Systems (MS4)

POST CONSTRUCTION RUN OFF CONTROL				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
Ongoing	IPL, LIP	4.2.5.3 Set up procedures for site plan review to evaluate water impacts for the life of the project. Will review process annually to make sure the city is in compliance with the updated state permit.	Add to our site plan. Review process to evaluate water quality impacts that are applied from start to finish on a project.	Description: Requires procedures for site plan review that evaluate water quality impacts and that are applied through the life of the project from conceptual design to project closeout. Selection: City staff and permittees to implement these requirements for compliance with the updated state permit. Target Pollutants: All pollutants. Target Audience: MS4 staff, developers and contractors. Staff: Public Works Director, planning and zoning departments, all other MS4 staff involved in plan reviews / projects. Funding: Storm Water budget.
Ongoing	ZO, OD	4.2.4.3.1 / 4.2.4.3.2 Update and incorporate into the SWMP. Review procedures for an evaluation of opportunities for use of Low Impact Development (LID) and green	Develop a policy and adopt into city ordinance for Low Impact Development practices on all projects - private and municipal.	Description: Conduct a pre-construction SWPPP review which includes a review of the site design, the planned operations at the construction site, planned BMP's during the construction phase, and the planned BMP's to be Selection: This will provide training for work permitted in Plain City. Target Pollutants: Sediment, construction site debris, hydrocarbons. Target Audience: Contractors and developers. Staff: Public Works Director and MS4 staff. Funding: Storm Water enterprise fund.

Separate Storm Sewer Systems (MS4)

POLLUTION PREVENTION / GOOD HOUSEKEEPING				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
2016 Ongoing	(HP) Submit an updated SWMP document to comply with the updated state permit.	4.2.6 / 4.2.6.1 Identify the department. Develop and keep a written inventory and map of permittee owned and operated facilities.	Complete organizational chart and define responsibilities for departments. Continue listing of MS4 owned / operated facilities.	Description: Updated the SWMP document for the updated state permit. Selection: Identify post construction requirements. Target Pollutants: All pollutants. Target Audience: MS4 staff, developers, and contractors. Effectiveness: Development and implementation of updated plan. Staff: MS4 staff and permittees. Funding: Storm Water budget.
2016/ Ongoing	(HP) Initial assessment of high priority facilities	4.2.6.2 / 4.2.6.1 Initially assess the inventory of permittee owned or operated facilities for their potential for discharge to the storm water required by 4.2.6.2 and mentioned in 4.2.6.1 above.	Complete assessment and identify "high priority" facilities.	Description: Identification of high priority facilities and put on site map, to comply with permit. Selection: Have selection process and identify high priority facilities. Target Pollutants: All pollutants. Target Audience: MS4 staff, and permittees. Effectiveness: To have all facilities identified. Staff: MS4 staff and permittees. Funding: Storm Water budget.
Ongoing	(HP) Continually update of SOP's and have SWPPP document for high priority sites.	4.2.6.4 / 4.2.6.3 Develop site specific SOP's and documents related to facilities mentioned in 4.2.6.3 . Include a site map and SWPPP document.	Review and make changes as needed to update SOP's and high priority sites.	Description: Ongoing development of SOP's and SWPPP document for high priority sites within 180 days to stay in compliance with the updated state permit. Selection: Select and develop specific SOP's that pertain to facilities. Target Pollutants: Specific to the site. Target Audience: MS4 staff and permittees. Effectiveness: To be recognized as implemented. Staff: MS4 staff and permittees. Funding: Storm Water budget.
Ongoing	(HP) Monthly visual inspections.	4.2.6.5.1 Conduct Monthly visual inspections of high priority facilities in accordance with the developed SOP's to minimize the potential of pollutant discharge.	Develop a Monthly inspection form and log format for high priority facilities and conduct weekly inspections.	Description: Monthly inspections as required by the permit. Selection: Conduct as required. Target Pollutants: All pollutants. Target Audience: Permittees. Effectiveness: Reduce pollutants and identify source. Staff: Storm Water Manager, MS4 staff, and permittee. Funding: Storm Water budget.

POLLUTION PREVENTION / GOOD HOUSEKEEPING				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
Ongoing	(HP) Semi-annual inspections "comprehensive."	4.2.6.5.2 Semi-annual must be performed, including all storm water controls on high priority facilities.	Continue Semi-annual inspection forms and logs. Conduct quarterly comprehensive inspections.	Description: Updated permit required Semi-annual inspections on high priority facilities. Selection: Comprehensive inspections of each site, to be in compliance with the permit. Target Pollutants: All pollutants. Target Audience: Permittees. Effectiveness: Maintain compliance coordinate with weekly reports. Staff: MS4 staff, and permittees. Funding: Storm Water budget.
Ongoing	(HP) Annual inspections "visual."	4.2.6.5.3 Conduct visual observation at least once per year to verify the quality of storm water discharge at "high priority" facilities.	Conduct annual visual inspections of storm water discharge at "high priority" facilities.	Description: Permit required inspections to comply with updated state permit. Selection: Visual inspections of each site. Target Pollutants: All pollutants. Target Audience: Permittees. Effectiveness: Maintain compliance and coordinate with weekly inspections. Staff: MS4 staff, and permittees. Funding: Storm Water budget.
Ongoing	Assessment of water quality structural controls.	4.2.6.8 Permittee development of process to assess the impacts of the design of structural management controls that may discharge to the MS4.	Draft a policy and process to assess water quality impacts on all new flood control projects. Get approval of policy.	Description: Development of procedure to assess structural controls. Selection: acceptable devices for structural controls. Target Pollutants: All pollutants, site specific. Target Audience: Permittee and the permit site. Effectiveness: Will be successful on implementation. Staff: MS4 staff and permittee and operator. Funding: Storm Water budget.
Ongoing	Assess existing structural controls.	4.2.6.8.1 Existing structural controls need to be assessed to determine whether changes should or could be made to improve water quality.	See "Goals" in section 5 as part of the retrofit program.	Description: Assessment of existing control devices, to improve water quality. Selection: Visual and functional development to assess existing devices to be in compliance with the updated state permit. Target Pollutants: All pollutants that are listed in the permit. Target Audience: Permittee and site operator. Effectiveness: Will be successful on implementation. Staff: MS4 . Funding: Storm Water budget.

Separate Storm Sewer Systems (MS4)

POLLUTION PREVENTION / GOOD HOUSEKEEPING				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
Ongoing	Material storage dewatering onto an impervious surface.	4.2.6.6.3 Proper management and disposal of waste and wastewater removed from MS4.	Construct an impervious / contained area at the city shops or landfill for dewatering, street sweepings, catch basin cleanouts, spoil piles, etc..	Description: The materials removed from the MS4 shall be dewatered in a contained, impervious area, discharges cannot be made onto the ground as underground waters are waters of the State. Selection: MS4 / facility storage / spoil areas. Target Pollutants: All pollutants. Target Audience: Facility employees. Effectiveness: Provide training for all MS4 staff. Staff: Public Works Director, and MS4 staff. Funding: Storm Water budget.
Ongoing	Employee training.	4.2.6.10 The city will provide training for all employees with job functions are likely to impact storm water quality. New employees to be trained 30 days upon hire, then annually thereafter.	Revise training. Conduct on-going training according to the employees schedule. This is to include new hires.	Description: Training all employees, contracted staff and other responsible entities that can impact storm water Selection: MS4 staff / all employees. Target Pollutants: All pollutants. Target Audience: MS4 staff, all employees. Effectiveness: Employees / new hires, contracted staff and other responsible entities will be trained. Staff: Public Works Director, MS4 staff, and all new hires. Funding: Storm Water budget.
Ongoing	SOPs	4.2.6.6.1 SOP's are updated to protect water quality from polluted storm water conveyances.	Prioritize storm drain system maintenance based upon water quality concerns.	Description: SOP's for all city-owned storm water collection and conveyance system SOP's includes: routine Selection: MS4 Target Pollutants: All pollutants. Target Audience: City staff. Effectiveness: Employees and new hires. Documentation: Documentation of removed pollutants. Staff: Public Works Director and city staff. Funding: Storm Water budget.

Table 5-1

Plain City SWMP Mini Control Measures (MCM)

Revi: MAY. 1, 2020

Separate Storm Sewer Systems (MS4)

COPY COPY COPY				
Year Executed	BMP	Implementation	Measurable Goals	Description and Support Information
Ongoing	copy	4.2.2.1 make sure you can read this entire column.	copy	Description: copy Selection: copy Target Pollutants: copy Target Audience: copy Effectiveness: copy Documentation: Sometimes deleted. Staff: copy Funding: copy
Ongoing	copy	4.2.2.1 copy	copy	Description: copy Selection: copy Target Pollutants: copy Target Audience: copy Effectiveness: copy Documentation: Sometimes deleted. Staff: copy Funding: copy
Ongoing	copy	4.2.2.1 copy	copy	Description: copy Selection: copy Target Pollutants: copy Target Audience: copy Effectiveness: copy Documentation: Sometimes deleted. Staff: copy Funding: copy

