

3. Public Education and Public Participation

- A. Is your public education program targeting specific pollutants and sources of those pollutants? Yes No
- B. If yes, what are the specific sources and/or pollutants addressed by your public education program?
Construction sites and industrial activities. Sedimentation, cement (pH), and oil/ antifreeze
- C. Note specific successful outcome(s) (e.g., quantified reduction in fertilizer use; NOT tasks, events, publications) fully or partially attributable to your public education program during this reporting period.
Sediment quantities reduction; pH under level 9; oil and antifreeze level reduction.
- D. Do you have an advisory committee or other body comprised of the public and other stakeholders that provides regular input on your storm water program? Yes No
- E. Do you belong to a storm water coalition or other advisory committee? If yes, describe: Yes No
Utah County Storm Water Coalition

4. Construction

- A. Do you have an ordinance or other regulatory mechanism stipulating:
- | | | |
|--|---|-----------------------------|
| Erosion and sediment control requirements? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Other construction waste control requirements? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Requirement to submit construction plans for review? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| MS4 enforcement authority? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
- B. Do you have written procedures for:
- | | | |
|-------------------------------|---|-----------------------------|
| Reviewing construction plans? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Performing inspections? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Responding to violations? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
- C. What is the threshold for construction storm water plan review (e.g., all projects, projects disturbing greater than one acre, etc.)? All the projects are subject to a SWPPP plan review.
- D. Identify the number of active construction sites \geq 1 acre in operation in your jurisdiction at any time during the reporting period. 10
- E. How many of the sites identified in 4.D did you inspect during this reporting period? 10
- F. Identify the number of active construction sites $<$ 1 acre in operation in your jurisdiction at any time during the reporting period. 6
- G. How many of the sites identified in 4.F did you inspect during this reporting period? 6
- H. Describe, on average, the frequency with which your program conducts construction site inspections.
Once a month.
- I. Do you prioritize certain construction sites for more frequent inspections? Yes No
 If Yes, based on what criteria? Projects doing grading are a higher priority.
- J. Identify which of the following types of enforcement actions you used during the reporting period for construction activities, indicate the number of actions, or note those for which you do not have authority:
- | | | | |
|---|-----------------------|-------------------|---------------------------------------|
| <input checked="" type="checkbox"/> Yes | Notice of violation | # <u>35</u> | No Authority <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Yes | Administrative fines | # <u>0</u> | No Authority <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Yes | Stop Work Orders | # <u>0</u> | No Authority <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Yes | Civil penalties | # <u>0</u> | No Authority <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Yes | Criminal actions | # <u>0</u> | No Authority <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Yes | Administrative orders | # <u>0</u> | No Authority <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Yes | Other <u>N/A</u> | # <u> </u> | |

- K. Do you use an electronic tool (e.g., GIS, data base, spreadsheet) to track the locations, inspection results, and enforcement actions of active construction sites in your jurisdiction? Yes No
- L. What are the 3 most common types of violations documented during this reporting period?
No inspection records on-site; Failure to maintain BMPs; Failure to conduct inspections
- M. How often do municipal employees receive training on the construction program? Once a year

5. Illicit Discharge Elimination

- A. Have you completed a map of all outfalls and receiving waters of your storm sewer system? Yes No
- B. Have you completed a map of all storm drain pipes and other conveyances in the storm sewer system? Yes No
- C. Identify the number of outfalls in your storm sewer system. 65
- D. Identify the number of Class V injection wells in your jurisdiction. 358
- E. Do you have documented procedures, including frequency, for screening outfalls? Yes No
- F. Of the outfalls identified in 5.C, how many were screened for dry weather discharges during this reporting period?
17
- G. Of the outfalls identified in 5.C, how many have been screened for dry weather discharges at any time since you obtained MS4 permit coverage? 17
- H. What is your frequency for screening outfalls for illicit discharges? Describe any variation based on size/type.
20% of them per year. Outfall near the PW Complex are inspected once a year, every year.
- I. Do you have an ordinance or other regulatory mechanism that effectively prohibits illicit discharges? Yes No
- J. Do you have documented procedures for tracing and removing an illegal discharge? Yes No
- K. Do you have an ordinance or other regulatory mechanism that provides authority for you to take enforcement action and/or recover costs for addressing illicit discharges? Yes No
- L. During this reporting period, how many illicit discharges/illegal connections have you discovered? 3
- M. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated?
3
- N. Identify which of the following types of enforcement actions you used during the reporting period for illicit discharges, indicate the number of actions, or note those for which you do not have authority:

<input checked="" type="checkbox"/> Yes	Notice of violation	# <u>3</u>	No Authority <input type="checkbox"/>
<input checked="" type="checkbox"/> Yes	Administrative fines	# <u>0</u>	No Authority <input type="checkbox"/>
<input checked="" type="checkbox"/> Yes	Stop Work Orders	# <u>0</u>	No Authority <input type="checkbox"/>
<input checked="" type="checkbox"/> Yes	Civil penalties	# <u>0</u>	No Authority <input type="checkbox"/>
<input checked="" type="checkbox"/> Yes	Criminal actions	# <u>0</u>	No Authority <input type="checkbox"/>
<input checked="" type="checkbox"/> Yes	Administrative orders	# <u>0</u>	No Authority <input type="checkbox"/>
<input checked="" type="checkbox"/> Yes	Other <u>N/A</u>	# <u> </u>	
- O. How often do municipal employees receive training on the illicit discharge program? Once a year

6. Storm Water Management for Municipal Operations

- A. Have storm water pollution prevention plans (or an equivalent plan) been developed for:
- | | | |
|--|---|-----------------------------|
| All public parks, ball fields, other recreational facilities and other open spaces | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal construction activities, including those disturbing less than 1 acre | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal turf grass/landscape management activities | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal vehicle fueling, operation and maintenance activities | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal maintenance yards | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| All municipal waste handling and disposal areas | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
- Other N/A
- B. Are storm water inspections conducted at these facilities? Yes No
- C. If Yes, at what frequency are inspections conducted? Once a year
- D. List activities for which operating procedures or management practices specific to storm water management have been developed (e.g., road repairs, catch basin cleaning).
Road repairs and maintenance; Underground utilities repair and maintenance, Inspections of projects
- E. Do you prioritize certain municipal activities and/or facilities for more frequent inspection? Yes No
- F. If Yes, which activities and/or facilities receive most frequent inspections? Public Works Complex
- G. How are you disposing of catch basin decant water and solid material?
Polluted materials are disposed at the North Point Landfill Plant located at 2000 W 200 S, Lindon, UT
- H. Are municipal vehicles washed into an approved wastewater disposal system? Yes No
- I. Do all municipal employees and contractors overseeing planning and implementation of storm water-related activities receive comprehensive training on storm water management? Yes No
- J. If yes, do you also provide regular updates and refreshers? Yes No
- K. If so, how frequently and/or under what circumstances? Once a year and at Conferences

7. Long-term (Post-Construction) Storm Water Measures

- A. Do you have an ordinance or other regulatory mechanism to require:
- | | | |
|---|---|-----------------------------|
| Site plan reviews for storm water/water quality of all new and re-development projects? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Long-term operation and maintenance of storm water management controls? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Retrofitting to incorporate long-term storm water management controls? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
- B. If you have retrofit requirements, what are the circumstances/criteria?
All existing site plans requesting an amendment are subject to a SWPPP retrofitting requirement.
- C. What are your criteria for determining which new/re-development storm water plans you will review (e.g., all projects, projects disturbing greater than one acre, etc.) All projects are reviewed for SWPPP compliance.
- D. Do you require water quality or quantity design standards or performance standards, either directly or by reference to a state or other standard, be met for new development and re-development? Yes No
- E. Do these performance or design standards require that pre-development hydrology be met for:
- | | | |
|----------------------|---|-----------------------------|
| Flow volumes | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Peak discharge rates | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Discharge frequency | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| Flow duration | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

- F. Please provide the URL/reference where all post-construction storm water management standards can be found.
http://afcity.org/Departments/UtilityDepartment/StormWater/tabid/337/Default.aspx
- G. How many development and redevelopment project plans were reviewed during the reporting period to assess impacts to water quality and receiving stream protection? 20
- H. How many of the plans identified in 7.G were approved? 16
- I. How many privately owned permanent storm water management practices/facilities were inspected during the reporting period? 3
- J. How many of the practices/facilities identified in I were found to have inadequate maintenance? 3
- K. How long do you give operators to remedy any operation and maintenance deficiencies identified during inspections?
If Hazardous spills are present: immediatelly; Otherwise, from 24 hours to a week.
- L. Do you have authority to take enforcement action for failure to properly operate and maintain storm water practices/facilities? Yes No
- M. How many formal enforcement actions (i.e., more than a verbal or written warning) were taken for failure to adequately operate and/or maintain storm water management practices? 3
- N. Do you use an electronic tool (e.g., GIS, database, spreadsheet) to track post-construction BMPs, inspections and maintenance? Yes No
- O. Do all municipal departments and/or staff (as relevant) have access to this tracking system? Yes No
- P. How often do municipal employees receive training on the post-construction program? Once a year

8. Program Resources

- A. What was the annual expenditure to implement MS4 permit requirements this reporting period? \$454,000
- B. What is next year's budget for implementing the requirements of your MS4 NPDES permit? \$688,900
- C. This year what is/are your source(s) of funding for the storm water program, and annual revenue (amount or percentage) derived from each?

Source: <u>Storm drain fee</u>	Amount \$ <u>725,765</u>	OR % <u>96</u>
Source: <u>Storm drain late fee</u>	Amount \$ <u>30,982</u>	OR % <u>4</u>
Source: _____	Amount \$ _____	OR % _____

- D. How many FTEs does your municipality devote to the storm water program (specifically for implementing the storm water program; not municipal employees with other primary responsibilities)? 1
- E. Do you share program implementation responsibilities with any other entities? Yes No

Entity	Activity/Task/Responsibility	Your Oversight/Accountability Mechanism
<u>Utah County PW</u>	<u>Public Education to Elementary School students</u>	<u>Supervise that the classes are offered to students</u>
<u>Utah County PW</u>	<u>SWPPP Training to contractors</u>	<u>Attend the class. Invite local contractors</u>
_____	_____	_____

9. Evaluating/Measuring Progress

A. What indicators do you use to evaluate the overall effectiveness of your storm water management program, how long have you been tracking them, and at what frequency? These are not measurable goals for individual management practices or tasks, but large-scale or long-term metrics for the overall program, such as macroinvertebrate community indices, measures of effective impervious cover in the watershed, indicators of in-stream hydrologic stability, etc.

Indicator	Began Tracking (year)	Frequency	Number of Locations
Water sampling results vs stream water quality	2010	Quarterly	2

B. What environmental quality trends have you documented over the duration of your storm water program? Reports or summaries can be attached electronically, or provide the URL to where they may be found on the Web.

Public Education and Outreach: Training classes have been offered to staff members, legislators, contractors, developers, consultants and members of the coalition. Based on comments from attendees, there is a need for learning about the new regulations and examples of how to comply with these rules.

Public Involvement and Participation: The creation of a Storm Water Advisory Committee has helped to coordinate the implementation of the program without creating a hardship to contractors and local business owners.

Illicit Discharge Detection and Detection: This is the most critical MCM and requires more training for water sampling procedures and recording results. It is helping to eliminate illegal discharges of non-storm drain runoff and consequently improve the water quality at the outfalls.

Construction Site Storm Water Runoff Control: Those contractors who attended a pre-construction meeting and were trained about compliance with the SWPPP rules and regulations, performed better than those who did not attend. The monthly inspections have been scheduled 48 hours before a rain event as predicted by the previous' year hydrograph. This approach ensures that during a rain event, most of the roads, parking lots, gutters, etc. are properly maintained and consequently reduces the level of pollution.

Post Construction Storm Water Management: The biggest challenge has been verifying the right of entry for inspecting an existing development. The implementation of a Storm Drain Maintenance Agreement, which started being required this year, will solve this problem.

Pollution Prevention and Good Housekeeping for Municipal Operations: By implementing quarterly inspections and maintenance of the storm drain inlets and pipe system, the water quality (based on a visual inspection) has improved significantly. The data has also identified the inlets and oil/ water separators that required frequent maintenance. Also, the parking lot and concrete gutter sweeping is helping to reduce the amount of sedimentation collected from each catch basin.

10. Additional Information

In the space below, please include any additional information on the performance of your MS4 program. If providing clarification to any of the questions on this form, please provide the question number (e.g., 2C) in your response.

1. MS4 Information: See page 1 of 7

According to the last census, the American Fork City population went down.

2. Water Quality Priorities

The American Fork River, Mitchell Hollow, Ellery Sager Slough, Mill Pond and Spring Creek are rivers and streams draining directly to Utah Lake. Two TMDLs monitoring station are currently located near the Boat Harbor and Dry Creek outfall. Although the named waters of the State are not officially listed as Impaired Waters of the United States or the State, the city is taking a proactive approach and will start monitoring the level of pollution for: Bacteria, pH, detergent, TSS, and temperature.

3. Public Education and Public Participation

Three EPA videos have been uploaded to the American Fork City's website. One video is intended for an adult audience and explains in details how to protect the city's aquifers, rivers and streams. The other two videos are intended for children and very briefly shows how water pollution affects aquatic life.

4. Construction

After a full year of collecting data and recording contractor's behavior regarding compliance with the SWPPP and SWMP, we concluded that a pre-construction meeting is the best way to reduce pollution, improve compliance and reduce the need for Corrective Actions.

Also, smart inspection scheduling has a positive impact on cleaning storm drain runoff. Based on the previous' year rainfall data frequency and intensity hydrograph, the city inspector is scheduling inspection to construction sites within 48 or 24 hours of a "previous year rain event". This is one of the most efficient ways to make sure the streets, concrete gutters, etc are cleaned before and during a storm event. This approach has shown a positive impact reducing sedimentation loads draining into the storm drain system.

5. Illicit Discharge Detection Elimination:

The city has added a Hotline Number for the public to report IDDEs. Considering the fact that people prefer to use a smart phone or emails to report an illegal activity, the city added a web-based computer program to report IDDE from one those devices.

In an effort to be able to evaluate the severity of a IDDE violation, the city has purchased a water sampling kit for measuring temperature, pH, Copper, detergents and bacteria.

6. Storm Water Management for Municipal Operations:

The city has recently secured a parcel for the construction of a salt and material storage building. The city has also been collecting data in an effort to prioritize the maintenance of the storm drain system and improve water quality.

7. Post Construction Storm Water Measures

The city is now requiring the recordation of a Storm Drain Maintenance Agreement for new private development. This new form will allow city staff to obtain legal access to the private property, the right to demand inspections and maintenance records, and the potential collection of maintenance costs in case the cleaning of the storm drain is performed by city staff.

Certification Statement and 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.

Yes

James H. Hadfield, Mayor

Name of Certifying Official, Title

Date (mm/dd/yyyy)