

REQUEST FOR COUNCIL ACTION

SUBJECT: Annual Stormwater Report

SUMMARY: The City has prepared the 2014/2015 Annual Storm Water Report as required by Federal and State law and the City's Utah Pollution Discharge Elimination Permit for storm water discharged to waters of the state. The report asks for the City to respond Yes/No to specific questions about financing, inspections, development review, and personnel.

**FISCAL
IMPACT:** None.

STAFF RECOMMENDATION:

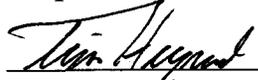
Staff recommends the City Council authorize the Mayor to sign the City of West Jordan's Annual Stormwater Report.

MOTION RECOMMENDED:

"I move to approve Resolution No. 15-186 authorizing the Mayor to sign the City of West Jordan's Annual Stormwater Report."

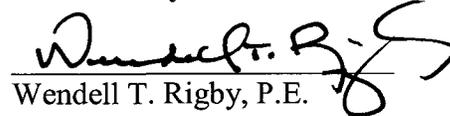
Roll Call vote required.

Prepared by:



Tim Heyrend, P.E.
Utilities Engineer

Reviewed by:



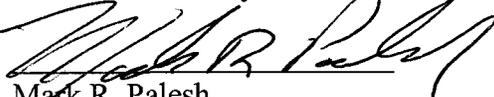
Wendell T. Rigby, P.E.
Director of Public Works

Reviewed as to Legal Sufficiency:



Darien Alcorn
Acting City Attorney

Recommended by:



Mark R. Palesh
City Manager

BACKGROUND DISCUSSION:

The Annual Stormwater Report for the 2014-2015 Fiscal Year shows continuing efforts by staff to comply with the City's Utah Pollution Discharge and Elimination System (UPDES) permit. The City strives to remain in compliance with the UPDES permit by maintaining and cleaning pipes, detention basin inspections and cleaning, inspections of construction sites, review of new developments for hydrology and hydraulic compliance, and dry weather screening of storm drains for illicit discharge detection. The City is required to implement increased inspections of permanent stormwater facilities such as detention basins, and separators including those privately operated. In addition, system cleaning and maintenance of pipelines is required yearly.

Recent additions of a TV video truck, Vector truck, and additional operators have helped operations to clean additional pipelines this year. There is also an increase in contractor compliance with stormwater pollution prevention plans, and reductions in sediment discharges to the stormwater system. Also, a project was completed by the construction division and the capital projects group to install storm pipe in a neighborhood that experienced flooding in the past. This project has alleviated the flooding to date. Additional capital storm projects are currently underway to address shortcomings of the existing storm drainage system.

Attachments:

Resolution

Annual Stormwater Report

THE CITY OF WEST JORDAN, UTAH
A Municipal Corporation

RESOLUTION NO. 15-186

A RESOLUTION AUTHORIZING THE MAYOR TO SIGN THE CITY OF WEST JORDAN'S
ANNUAL STORMWATER REPORT.

Whereas, qualified City personnel have prepared the City's Annual Stormwater Report as required for compliance with the City's Utah Pollution Discharge Elimination (UPDES) Permit for stormwater discharges to waters of the State (a copy of which is attached hereto); and

Whereas, the City Staff has reviewed the Annual Stormwater Report, and finds the report to be true and accurate; and

Whereas, the City Council has reviewed the Annual Stormwater Report, and understands the current status of the City's UPDES permit;

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WEST JORDAN, UTAH, THAT:

Section 1. The Mayor is hereby authorized and directed to sign the 'Certification Statement' in Section 10 of the Annual Stormwater Report.

Section 2. This Resolution shall take effect immediately upon passage.

Adopted by the City Council of West Jordan, Utah, this 23rd day of September, 2015.

CITY OF WEST JORDAN

ATTEST:

By: _____
Kim V. Rolfe
Mayor

Melanie Briggs
City Recorder

RESOLUTION NO. 15-186

A RESOLUTION AUTHORIZING THE MAYOR TO SIGN THE CITY OF WEST JORDAN'S
ANNUAL STORMWATER REPORT.

Voting by the City Council

"AYE"

"NAY"

Jeff Haaga

Judy Hansen

Chris McConnehey

Chad Nichols

Sophie Rice

Ben Southworth

Mayor Kim V. Rolfe

Utah Pollutant Discharge Elimination System Storm Water Program

Small MS4 Report Form

The purpose of this report is to contribute information to an evaluation of the UPDES small municipal separate storm sewer system (MS4) permit program. Consistent with 40 CFR §122.37 the Utah Department of Environmental Quality is assessing the status of the storm water program. A "no" answer to a question does not necessarily mean noncompliance with your permit or with the federal regulations. In order to establish the range of variability in the program it is necessary to ask questions along a fairly broad performance continuum.

1. MS4 Information

City of West Jordan

Name of MS4
Tim Heyrend Utilities Engineer

Name of Contact Person (First) (Last) (Title)
(801) 569-5086 timh@wjordan.com

Telephone (including area code) Email
8000 South Redwood Road

Mailing Address
West Jordan UT 84088
 City State ZIP code

What size population does your MS4 serve? 110,171 UPDES number UTS000001

What is the reporting period for this report? (mm/dd/yyyy) From 07/01/2011 to 06/30/2015

2. Water Quality Priorities

- A. Does your MS4 discharge to waters listed as impaired on a state 303(d) list? Yes No
- B. If yes, identify each impaired water, the impairment, whether a TMDL has been approved by EPA for each, and whether the TMDL assigns a wasteload allocation to your MS4. Use a new line for each impairment, and attach additional pages as necessary.

Impaired Water	Impairment	Approved TMDL		TMDL assigns WLA to MS4	
<u>Jordan River</u>	<u>TDS, Temperature, D.O.</u>	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
<u>_____</u>	<u>_____</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<u>_____</u>	<u>_____</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<u>_____</u>	<u>_____</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<u>_____</u>	<u>_____</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<u>_____</u>	<u>_____</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<u>_____</u>	<u>_____</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
<u>_____</u>	<u>_____</u>	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No

- C. What specific sources contributing to the impairment(s) are you targeting in your storm water program?
Industrial, commercial, and residential discharges
- D. Do you discharge to any high-quality waters (e.g., Tier 2, Tier 3, outstanding natural resource waters, or other state or federal designation)? Yes No
- E. Are you implementing additional specific provisions to ensure their continued integrity? Yes No

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?
Household hazardous waste, oil, grass clippings, fertilizer, leaves, trash
- 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.
We had 1000+ residents bring in HHW to the Trans Jordan Landfill last year from West Jordan. West Jordan was highest of all the cities that are tracked.
- 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
Salt Lake County Stormwater Coalition

4. Construction

- A. Do you have an ordinance or other regulatory mechanism stipulating:
 - Erosion and sediment control requirements? Yes No
 - Other construction waste control requirements? Yes No
 - Requirement to submit construction plans for review? Yes No
 - MS4 enforcement authority? Yes No
- B. Do you have written procedures for:
 - Reviewing construction plans? Yes No
 - Performing inspections? Yes No
 - Responding to violations? Yes No
- C. What is the threshold for construction storm water plan review (e.g., all projects, projects disturbing greater than one acre, etc.)? All new construction projects are reviewed
- D. Identify the number of active construction sites \geq 1 acre in operation in your jurisdiction at any time during the reporting period. 28
- E. How many of the sites identified in 4.D did you inspect during this reporting period? All
- F. Identify the number of active construction sites $<$ 1 acre in operation in your jurisdiction at any time during the reporting period. 5
- G. How many of the sites identified in 4.F did you inspect during this reporting period? All
- H. Describe, on average, the frequency with which your program conducts construction site inspections.
Every 1 to 3 days for each project
- I. Do you prioritize certain construction sites for more frequent inspections? Yes No
 If Yes, based on what criteria? How close the site is to a water body
- 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>2</u>	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Administrative fines	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Stop Work Orders	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Civil penalties	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Criminal actions	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Administrative orders	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Other _____	# _____	

- 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?
Mud Tracking, failure to implement BMPs, no biweekly inspection reports
- M. How often do municipal employees receive training on the construction program? Yearly

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. 102
- D. Identify the number of Class V injection wells in your jurisdiction. None
- 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?
27
- 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? 102
- H. What is your frequency for screening outfalls for illicit discharges? Describe any variation based on size/type.
1/5th of the outfalls are screened each 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? 1/0
- M. Of those illicit discharges/illegal connections that have been discovered or reported, how many have been eliminated?
1
- 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>1</u>	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Administrative fines	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Stop Work Orders	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Civil penalties	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Criminal actions	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Administrative orders	# _____	No Authority <input type="checkbox"/>
<input type="checkbox"/> Yes	Other _____	# _____	
- O. How often do municipal employees receive training on the illicit discharge program? Yearly

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 Yes No
 - All municipal construction activities, including those disturbing less than 1 acre Yes No
 - All municipal turf grass/landscape management activities Yes No
 - All municipal vehicle fueling, operation and maintenance activities Yes No
 - All municipal maintenance yards Yes No
 - All municipal waste handling and disposal areas Yes No
- Other _____
- B. Are storm water inspections conducted at these facilities? Yes No
- C. If Yes, at what frequency are inspections conducted? Monthly
- 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).
Catch basins cleaned as needed, streets swept 2X/year, roads repaired annually, Green Waste Collected
- 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? flooded areas, plugged pipes and basins
- G. How are you disposing of catch basin decant water and solid material?
Covered concrete bay discharges to sewer. Landfill
- 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? Yearly, APWA conference, in-house

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? Yes No
 - Long-term operation and maintenance of storm water management controls? Yes No
 - Retrofitting to incorporate long-term storm water management controls? Yes No
- B. If you have retrofit requirements, what are the circumstances/criteria?
Detention to 0.2 cfs/acre
- 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 project plans are reviewed.
- 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 Yes No
 - Peak discharge rates Yes No
 - Discharge frequency Yes No
 - Flow duration Yes No

- F. Please provide the URL/reference where all post-construction storm water management standards can be found.
http://www.wjordan.com/Files/Eng/StormDrainDesign1
- G. How many development and redevelopment project plans were reviewed during the reporting period to assess impacts to water quality and receiving stream protection? 14
- H. How many of the plans identified in 7.G were approved? 14
- I. How many privately owned permanent storm water management practices/facilities were inspected during the reporting period? 52
- J. How many of the practices/facilities identified in I were found to have inadequate maintenance? 7
- K. How long do you give operators to remedy any operation and maintenance deficiencies identified during inspections?
Up to 14 days by the City's enforcement ordinance
- 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? 0
- 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? Every Year

8. Program Resources

- A. What was the annual expenditure to implement MS4 permit requirements this reporting period? \$3.14 M
- B. What is next year's budget for implementing the requirements of your MS4 NPDES permit? \$3.07 M
- 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>Stormwater Utility Fee</u>	Amount \$ <u>1.76 M</u>	OR % <u>56</u>
Source: <u>Impact Fees</u>	Amount \$ <u>0.9 M</u>	OR % <u>28</u>
Source: <u>Fund Transfer</u>	Amount \$ <u>0.48 M</u>	OR % <u>15</u>

- 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)? 6
- E. Do you share program implementation responsibilities with any other entities? Yes No

Entity	Activity/Task/Responsibility	Your Oversight/Accountability Mechanism
<u>Salt Lake County</u>	<u>Public Education Advertising</u>	<u>Attend coalition meetings and provide funding</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
Nitrogen and Phosphorus	2002	Every 6 months to 1 year	1
TSS and BOD Discharge	2002	Every 6 months to 1 year	1

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.

Levels of TSS influent to the 7800 South wetland have declined since 2009. Levels of BOD decrease to non-detect after treatment by the wetland. Nitrogen and Phosphorus levels typically show a 50% reduction after treatment by the wetland.

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.

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

Name of Certifying Official, Title

Date (mm/dd/yyyy)