



Permit & Plan Reviews – by Jurisdiciton

Grading Permits

PCSMP

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Douglas County*	Kent Holm	kent.holm@douglascounty- ne.gov ship & City of Omaha El's do not provide	Douglas County*	Kent Holm	
inspection services to Dougl		silp a city of officina Lis do not provide			

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List available on Permix & OmahaStormwater.org

City of Omaha Environmental Inspectors

- Carol Sorensen Stormwater
- Charla Schurter Stormwater
- Eric Grimshaw Stormwater
- Chris Anderson Stormwater
- Mark Ermeling Sewer Use
- Casey Black Sewer Use
- David Nusser Sewer Use
- Christina Tisko Fats, Oils & Grease
- Jeff Ryba Air Program
- Neil Graybil Solid Waste
- Matt Nusser Solid Waste
- Jenny Proescholdt Under the Sink

Contact list available on Permix







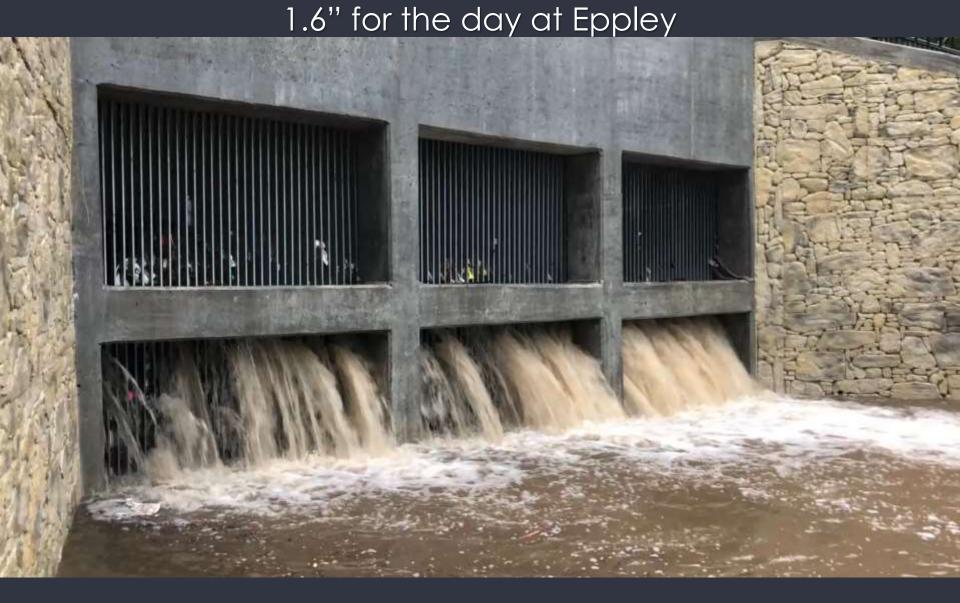
Plugs up infrastructure, causing flooding, back-ups, clean-up costs







June 19th, 2018 Adams Park 1.6" for the day at Eppley



Polluted stormwater runoff up-close



Omaha Stormwater Program

MS4 Permit (Municipal Separate Storm Sewer System):

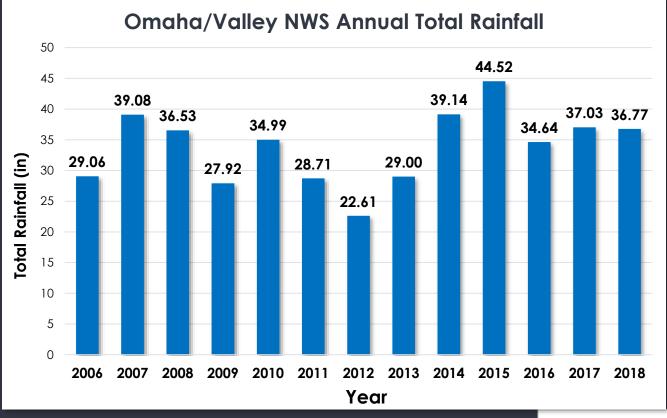
- Permit w/NDEQ to manage stormwater discharged by the MS4
- 8 program elements:
 - 1. Construction
 - 2. Post-Construction
 - 3. Education & Outreach
 - 4. Public Participation

- 5. Industrial
- 6. Good Housekeeping
- 7. Illicit Discharge Detection & Elimination
- 8. Monitoring



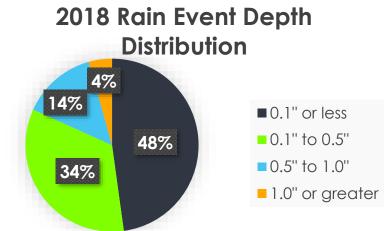


Rain Events for Omaha – past 12 years

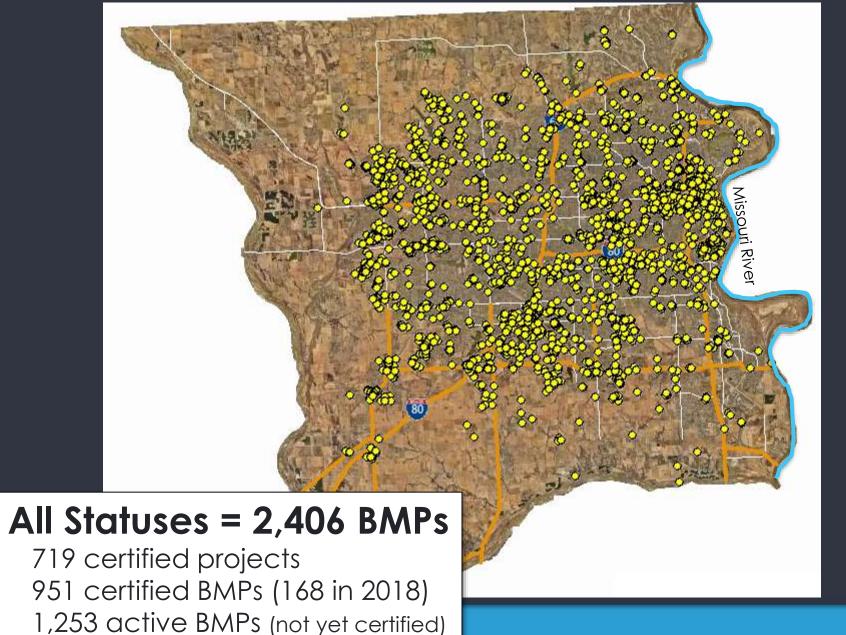




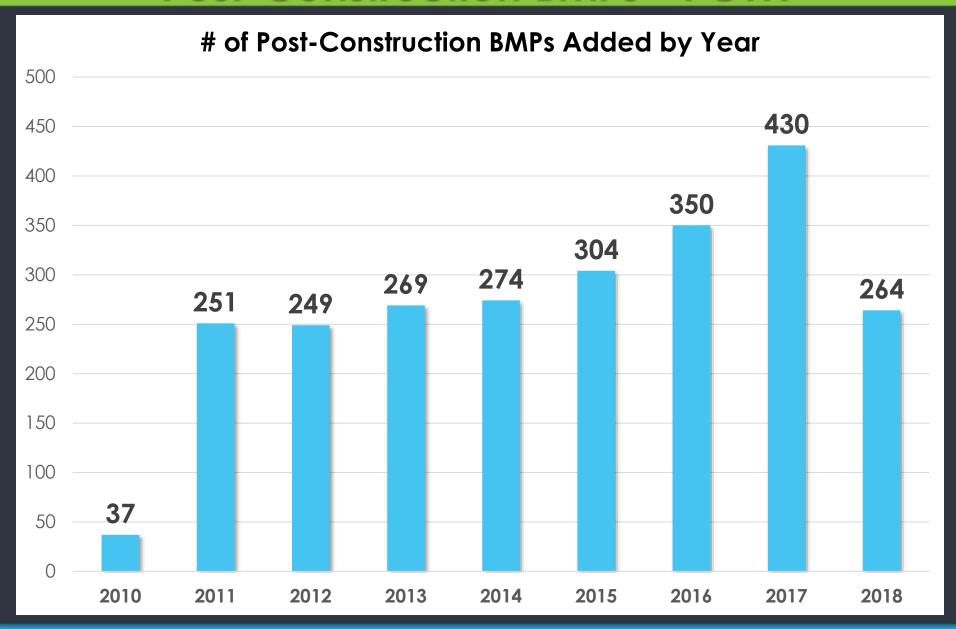
- 30" average annual rainfall
- 21.91" = Total rainfall spread
- 33 = Total event spread
- = you never quite know what you are going to get



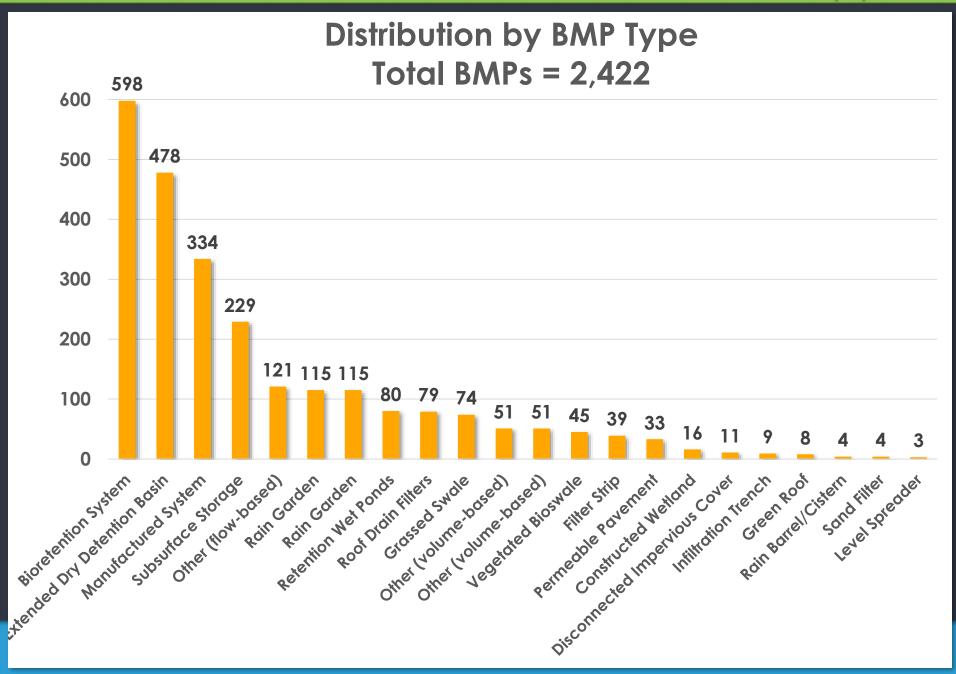
Post-Construction BMPs in the PCWP as of 1/14/19



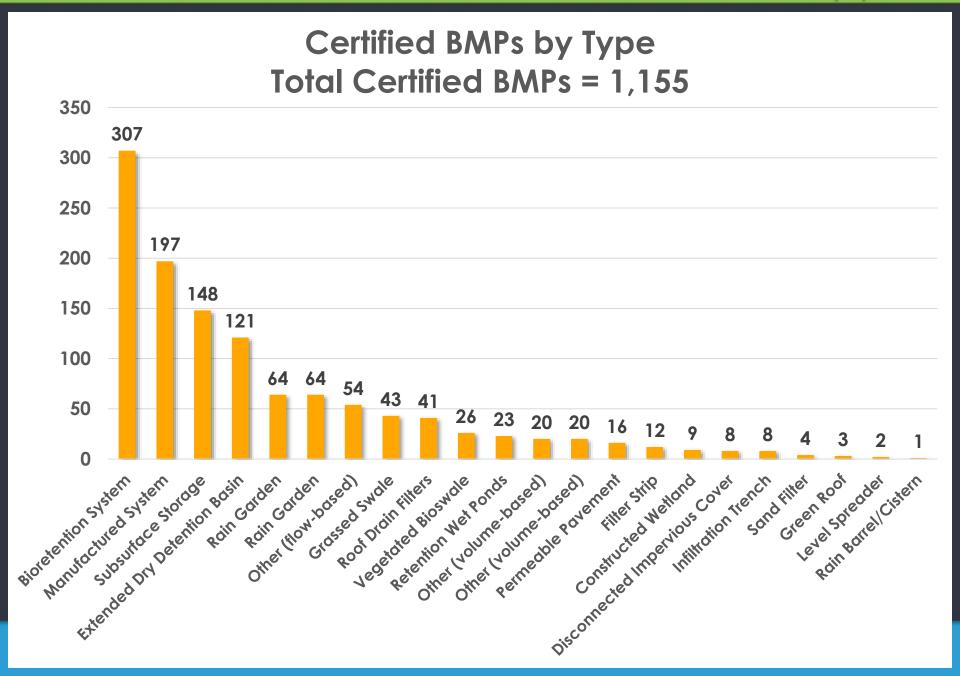
Post-Construction BMPs - PCWP



Post-Construction BMPs - Omaha as of 2/5/19



Post-Construction BMPs - Omaha as of 2/5/19



Grading Permits on Permix





Grading Permit Basics

- Sites >1 acre of disturbance & smaller sites part of a larger common plan of development
- Requires Stormwater Pollution Prevention Plan (SWPPP), includes:
 - Site Map
 - Narrative
- Goal is to eliminate/minimize stormwater
 pollution leaving the site



Project Roles

- Applicant the Owner or Property Manager
- Applicant Representative obtaining grading permit for the applicant
- Permit/Plan Reviewers reviewing documents for the jurisdiction
- Project Inspectors doing the regular site inspections
- City Inspectors periodic compliance inspections
- Contractor company doing the site work & following the SWPPP

Other items to note

- Post-Construction application must be submitted & approved prior to Grading Permit application approval
- Grading Permit is not issued till it is paid for (unless applicant is exempted)
- The SWPPP is not static, must adapt & update
- Grading Permits DO NOT approve how a site is graded



Grading Permit Basics - Inspections

- Weekly AND after ½" rain events (Stage 1)
- File reports on OmahaPermix.com
- Reporting period ends each Saturday, report due by following Friday
- 1 report for all inspections for that period (ex. 3 rain inspections, 1 report)
- Stage 1, 2, 3 & Winter



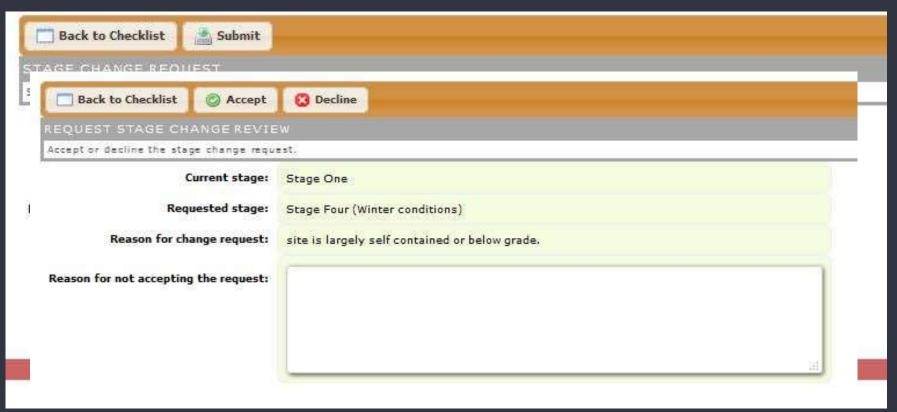
Next Action

Permit Closed

Stage Changes

The Process

- Project inspector submits a Stage Change Request
- City inspector visits site, processes request



Grading Permit Terms – Stage Changes

Table 3

STAGE REQUIREMENTS						
Stage 1	Stage 2	Stage 3	Stage 4 (winter stage)			
Sites that do not qualify for Stage 2, 3, or 4	Compliance with the Stage 1 requirements	Compliance with the Stage 2 requirements	Compliance with the Stage 1 requirements			
Permitting Community has issued a Grading Permit for the construction site and a PCWP Stripping and Grading Notification Form has been submitted	All erosion prevention and sediment control measures have been installed and are functioning correctly	All public improvements have been installed	BMPs have been installed and are properly maintained			
	All Inspection Reports are up to date and accurate	The PCWP has allowed the transition to Stage 3 Site inspection and reporting requirements	Stabilization measures have been implemented in areas of environmental sensitivity and higher erosion potential			
	All site grading has been completed in accordance with the SWPPP (note: minimal utility and/or building pad excavation may be conducted)		Activities involving heavy equipment are limited or stopped			
	Vegetative ground cover has been fully established		Runoff is unlikely due to winter conditions (e.g., site must be covered with snow, ice, or the ground is frozen)			
	The PCWP has allowed the transition to Stage 2 Site inspection and reporting requirements		The request to transition to a Stage 4 Site has been submitted before December 1			
			The PCWP has allowed the transition to Stage 4 Site inspection and reporting requirements			
			On March 1, all Stage 4 Sites shall revert to the previously assigned stage			

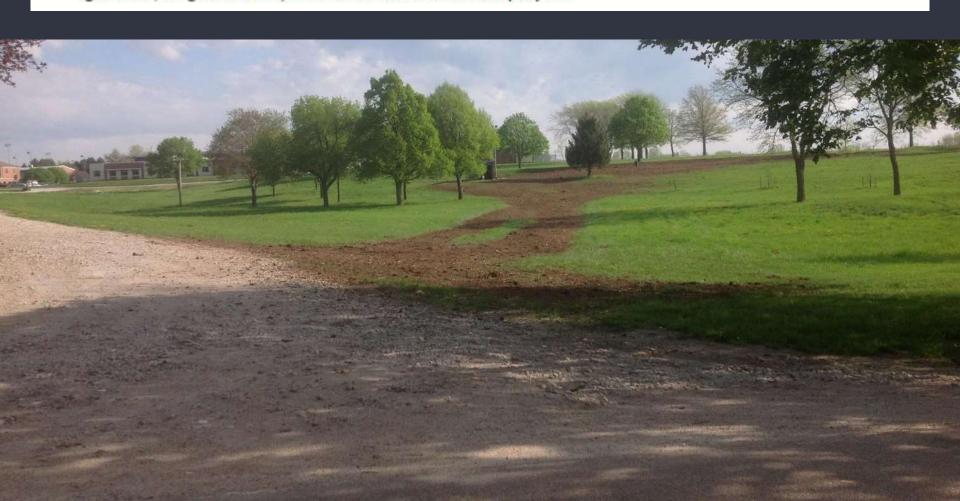
Grading Permit Closure*

To close a grading permit:

- 1. Submit a Closure Request
 - City Close-out Inspection recommends closure
- 2. Paperwork is submitted & approved
 - Final SWPPP Map
 - Indicates temporary BMP's have been removed, site is fully stabilized, & no further ground disturbance
 - 2. Applicant SWPPP Certification new signature & date
 - NDEQ NOT completed
- 3. Post-construction has been completed

Final Stabilization Definition

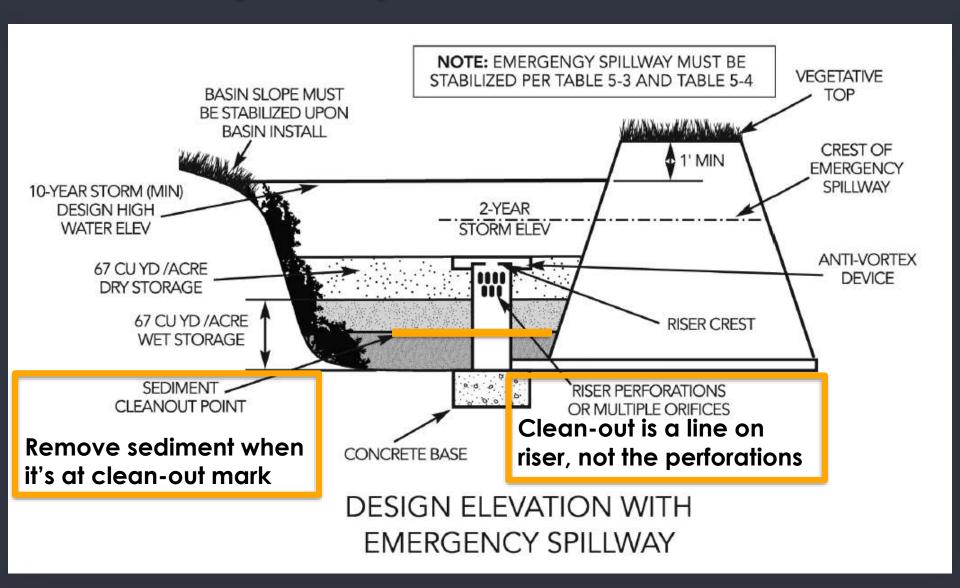
Final Stabilization: Condition where all soil disturbing activities at the site have been completed and a uniform perennial vegetative cover with a minimum density of 70 percent of the native background vegetative cover has been established on all non-impervious surfaces and areas not covered by permanent structures unless equivalent permanent stabilization (such as riprap, gabions, or geotextiles) measures have been employed.







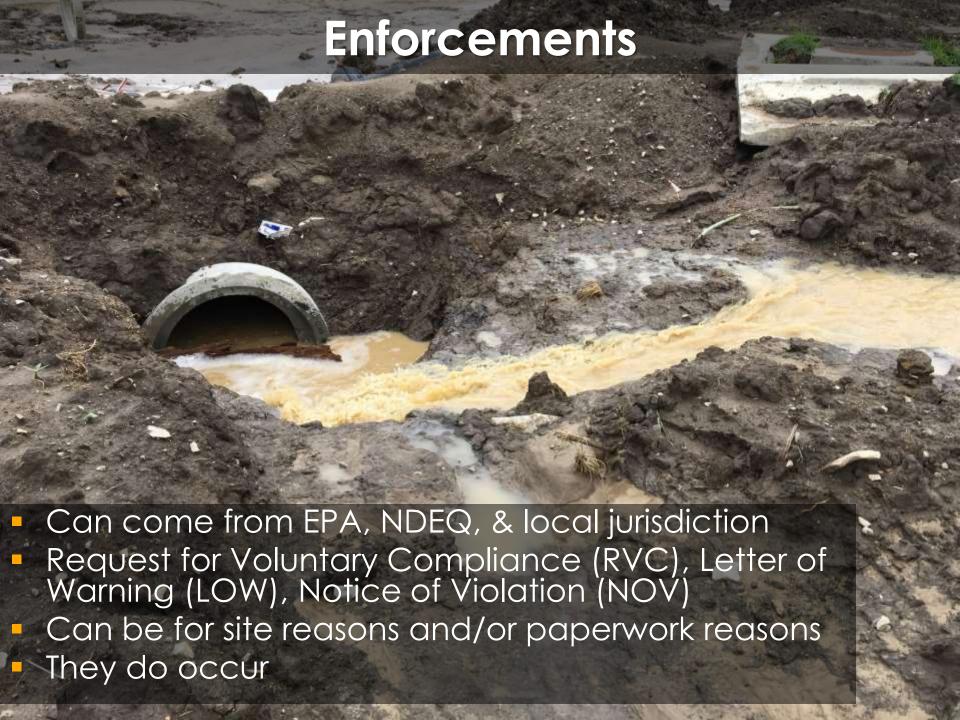
Temporary Sediment Basins

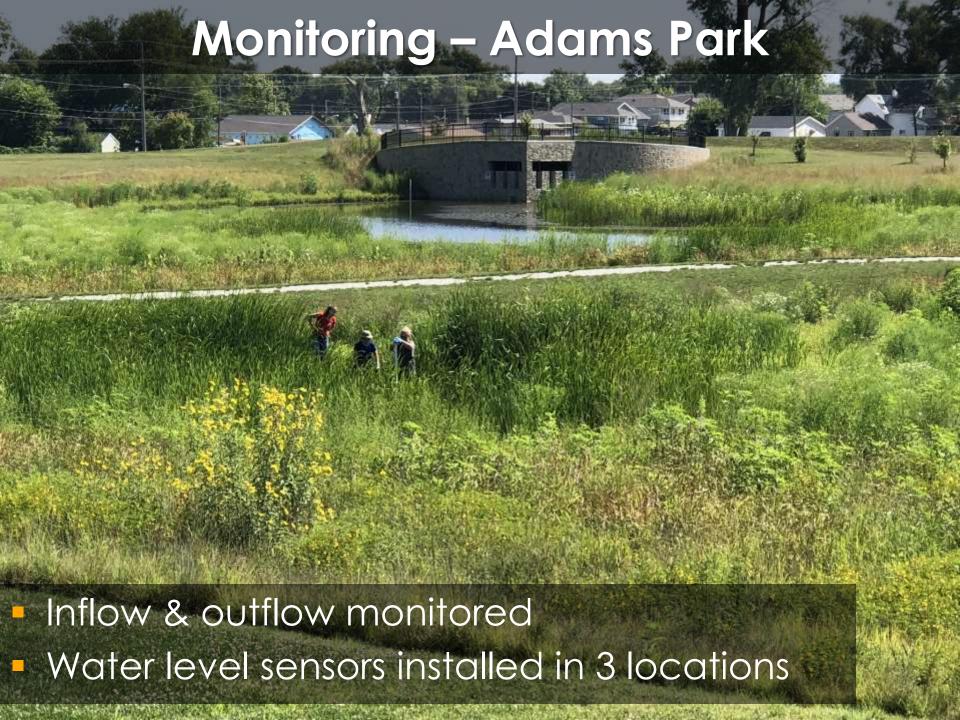


ORSDM 9.5.15 Temporary Sediment Basin

"Hybrid" Temporary Sediment Basins







Monitoring – Adams Park

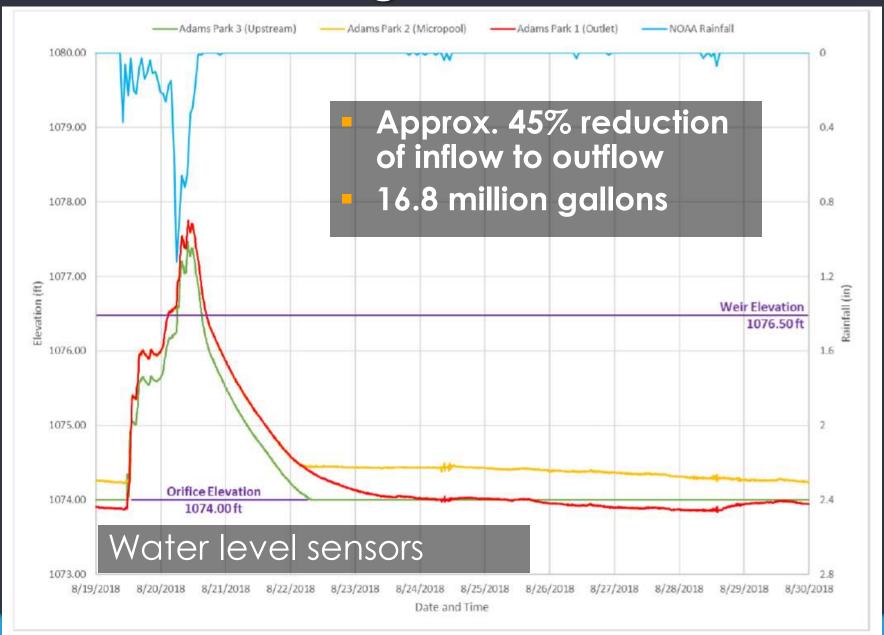


Figure 4-20: Adams Park Event 1 (8.25 inches)

Monitoring – UNO Welcome Center



- Measuring soil moisture, water level & temperatures
- Time lapse of growing season as well...

Monitoring – UNO Welcome Center

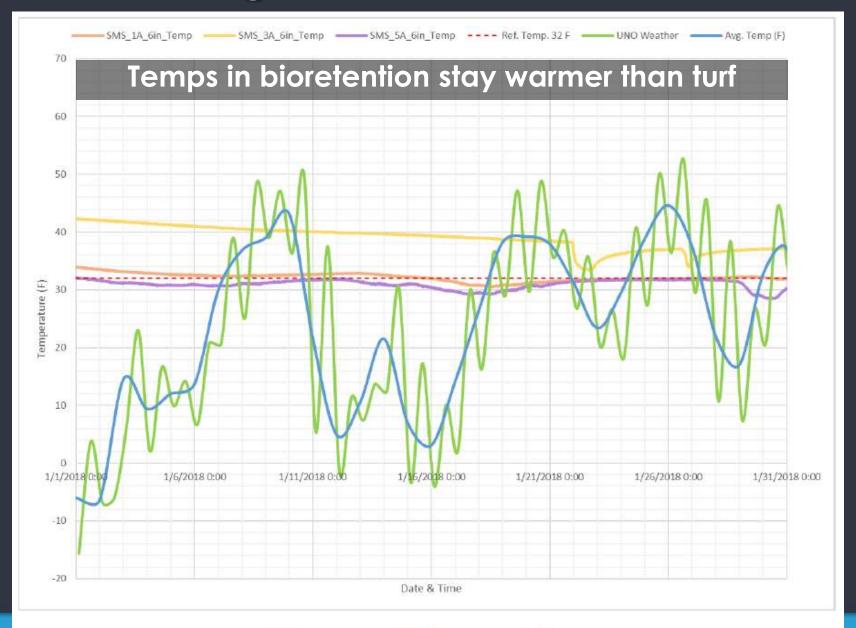


Figure 4-13: January 2018 Subsurface Temperatures

OmahaPlants.org



OmahaStormwater.org



Facebook – Omaha Stormwater Program



If you'd like to set up a presentation with us, please contact me to set up

