



# CLEAN WATER COMMISSION

For the Department of Environmental Services

## Regular Meeting Summary

**Wednesday, May 1, 2013**

**6:30 PM – 8:30 PM**

**Public Service Center, 6<sup>th</sup> Floor Training Room  
1300 Franklin Street, Vancouver**

**Members Present:** Jim Carlson, Don Moe, David Morgan, Nancy Olmsted, Brian Peck, Susan Rasmussen, Art Stubbs, Virginia van Breemen

**Members Absent:** Troy Maxcy

**Staff Present:** Earl Rowell, Bobbi Trusty, Ron Wierenga

**Partner Agency Staff Present:** Laurel Whitehurst, Clark County Arts Commission

**Public Present:** None

### I ROLL CALL

The March 6, 2013 meeting summary was approved as submitted

### II PUBLIC COMMENT – feedback

Ms. Whitehurst is passionate about art and clean water. She would like to create an Earthworks Symposium. The symposium would gather people together who understand stormwater and artists to discuss attractive solutions and functionality in public spaces. Her goal is to have a symposium in the fall; she has started gathering information from The Society of Landscape Architects. The website where you can follow the progress is: [www.clarkcountyartscommission.org](http://www.clarkcountyartscommission.org). Once on the website, choose the “Contact Us” tab then the “Earthworks link.” The commissioners thanked Ms. Whitehurst for coming and appreciate her time and energy to do so. The Clean Water Commission supports using art to educate and beautify our community.

### Motion 2013-04

Mr. Stubbs moved to recommend to the Board of County Commissioners to support the work of the Clark County Arts Commission to incorporate artistic concepts in stormwater facility design and support a stormwater arts symposium in Clark County in 2013. It was seconded by Ms. Rasmussen. All were in favor. Motion passed.

### III Clean Water Commission – Communications with the Public

Mr. Wierenga shared the email announcement from Mr. Maxcy of his withdrawal of this position on the commission.

- *Later a call was placed by Mr. Rowell to Mr. Maxcy. Mr. Maxcy said he will attend the May 7, 2013, Board of County Commissioner Public Hearing before deciding if he is going to continue as member of the Clean Water Commission.*



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CLARK COUNTY  
WASHINGTON

## CLEAN WATER COMMISSION For the Department of Environmental Services

- IV** PRESENTATION: Municipal Stormwater Permit Overview for Stakeholders  
Mr. Wierenga reviewed the stakeholder presentation (attached). He asked for feedback regarding the mission, vision, goals and timeline.

To meet NPDES permit requirements the draft stormwater code and manual revisions are due to Washington State Department of Ecology by June 2014. The commission discussed low impact development, feasibility, barrier analysis and where the money comes from to make the code and manual changes. Commissioners were encouraged by the work that has been completed thus far on the project.

**Motion 2013-05**

Mr. Stubbs moved that the Clean Water Commission endorse this presentation to the Board of County Commissioners. Mr. Carlson seconded. All were in favor. Motion passed.

Mr. Wierenga asked the Clean Water Commissioners to consider being on either the Technical Advisory Committee (TAC) or Stakeholder Advisory Committee (SAC) to work through the updates. He will send out an email asking for volunteers soon.

- V** PUBLIC COMMENT – feedback  
None

- VI** ADJOURN – 08:34PM

Summary provided by: Bobbi Trusty / 360-397-2121 x 5268

Clark County

# Phase 1 Municipal Stormwater Permit

*National Pollutant Discharge Elimination System &  
State Waste Discharge General Permit*

**2013-2018**

*Permit Overview for Stakeholders*

Updated 5-9-13



Round Lake  
Photo: Gary Piazza



# Presentation Overview:

- What is stormwater and how do we manage it in Clark County?
- Municipal stormwater permit
  - *Who are the agencies and partners involved in permit compliance*
  - *Components of the permit*
  - *General changes as a result of the new permit*
- Updating stormwater rules
- Schedule
- Next steps.....



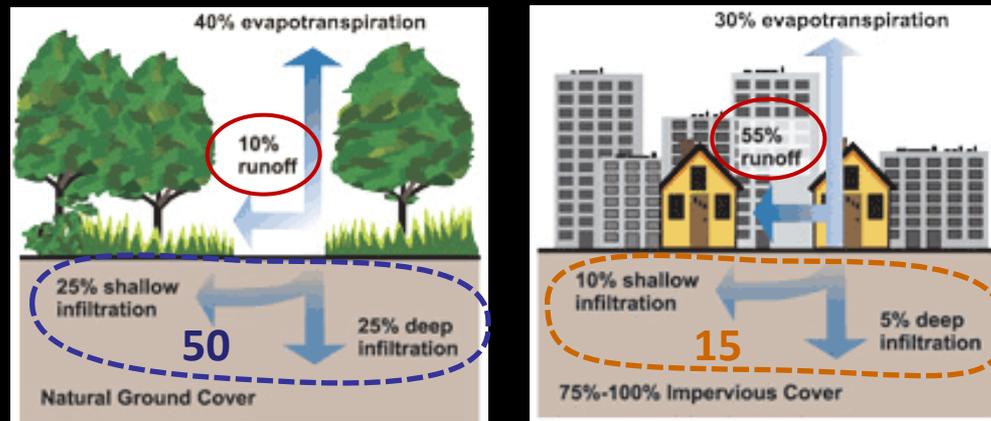
*Protecting our natural resources for generations to come*



North Fork Lewis River, from Yale Bridge  
Photo: Gary Piazza

# Stormwater management 101

- In developed areas, stormwater drains to our “municipal separated storm sewer system” (MS4)
- Per the municipal stormwater permit issued by the State of Washington, the county is required to prevent pollution in runoff and limit the amount of runoff from developed sites that will discharge to our MS4.



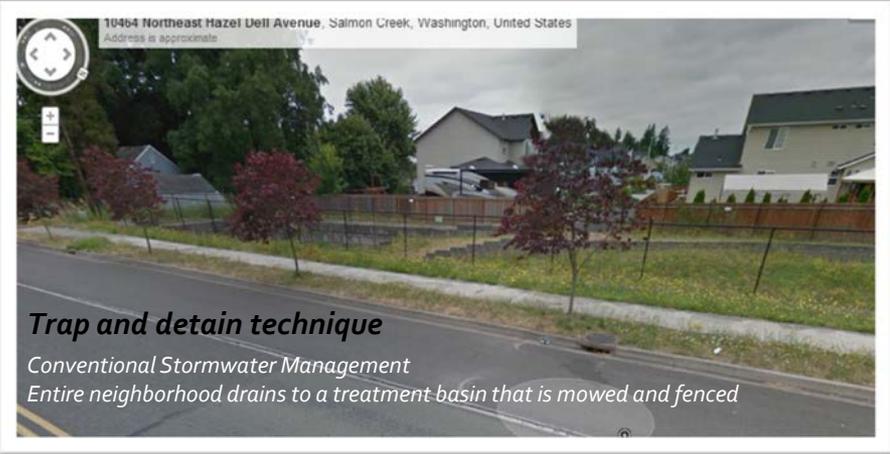
Graphics: EPA Stormwater Management



# How our stormwater system looks.....



**Catch and pipe technique**  
Conventional Stormwater Management  
Drain to catch basin and pipe to river



**Trap and detain technique**  
Conventional Stormwater Management  
Entire neighborhood drains to a treatment basin that is mowed and fenced



**Preserve natural systems technique**  
Village on the Glen – Stormwater wetlands / nature area

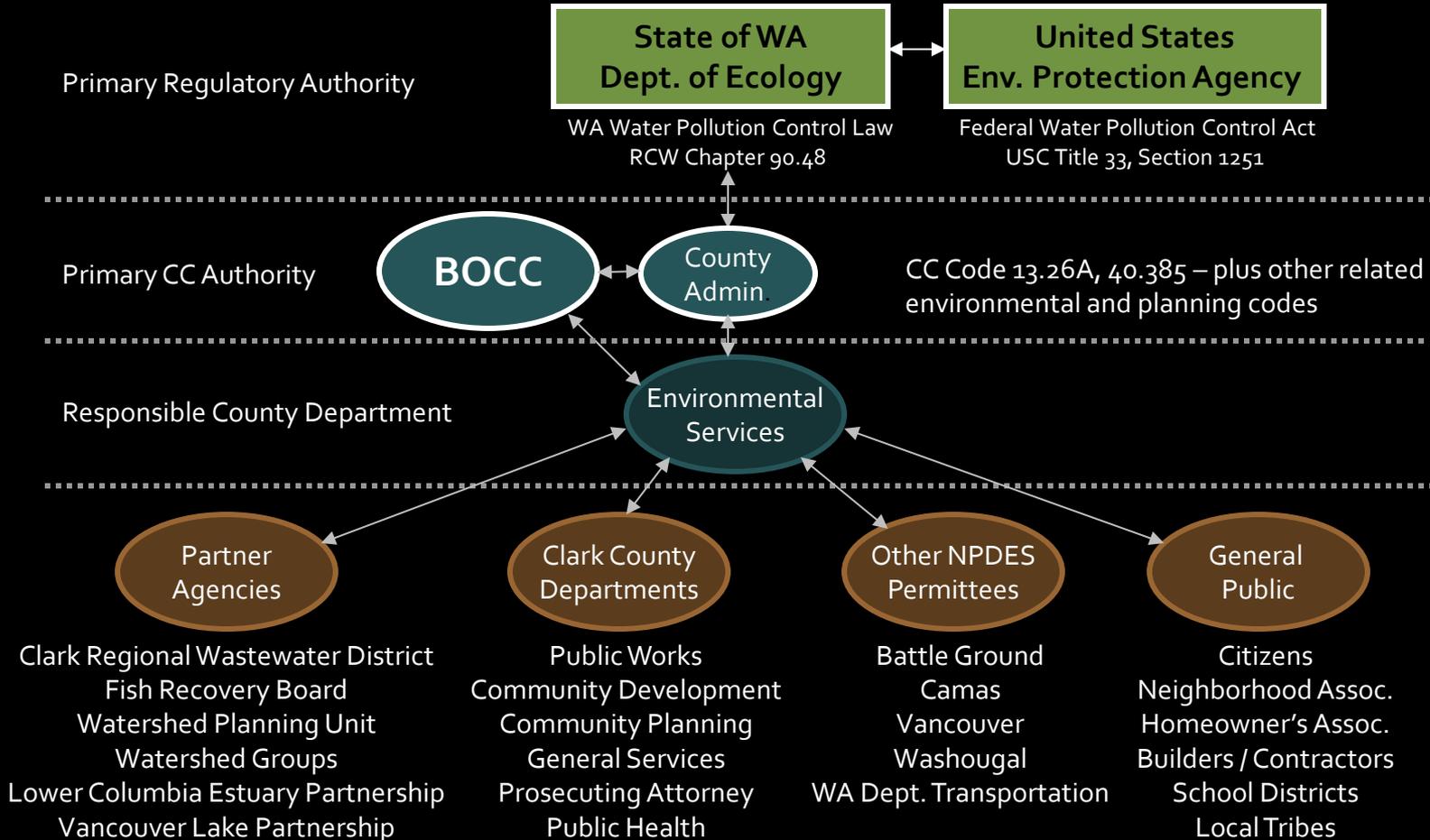


**Vegetated basin technique**  
Cold Creek Industrial Park – Stormwater Bioretention

All photos: Google Maps



# Who is involved in coordination of the Clark County NPDES permit?

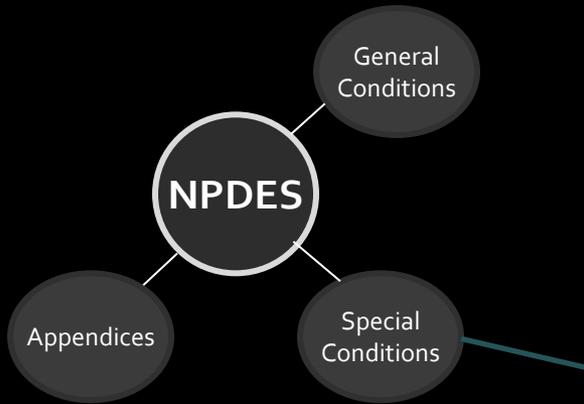


# Ways Clark County currently addresses storm water:

why	PRESERVE CONSERVE PROTECT	RETAIN MAINTAIN	REDUCE RETROFIT	RETROFIT UPDATE
what				
how	<ul style="list-style-type: none"> <li>• CONSERVATION FUTURES</li> <li>• VEGETATION MANAGEMENT</li> <li>• SUSTAINABLE FORESTRY</li> <li>• PARKS</li> <li>• GREENWAYS</li> </ul>	<ul style="list-style-type: none"> <li>• GROWING GREEN</li> <li>• NEW LOW IMPACT DEVELOPMENT</li> </ul>	<ul style="list-style-type: none"> <li>• NEW LOW IMPACT RE/DEVELOPMENT</li> <li>• PUBLIC EDUCATION TO REDUCE POLLUTION</li> </ul>	<ul style="list-style-type: none"> <li>• CAPITAL PROGRAM</li> <li>• PARTNER AGENCIES</li> <li>• OPERATIONS &amp; MAINTENANCE</li> </ul>



# What are the components of the permit?



- S1 Permit Coverage and Permittees
- S2 Authorized Discharges
- S3 Responsibilities of Permittees
- S4 Compliance with Standards
- S5 Stormwater Management Program
- S6 Stormwater for Secondary Permittees
- S7 Compliance with Total Maximum Daily Loads
- S8 Monitoring
- S9 Reporting

### Major areas of focus:

Legal Authority  
 MS4 Mapping/Documentation  
 Coordination  
 Public Involvement/Participation  
 Runoff from New Development – LID\*  
 Watershed Scale Planning\*  
 Structural Stormwater Controls\*  
 Source Control from Existing Dev.  
 Operation & Maintenance Program\*  
 Inspection Program  
 Education & Outreach Program

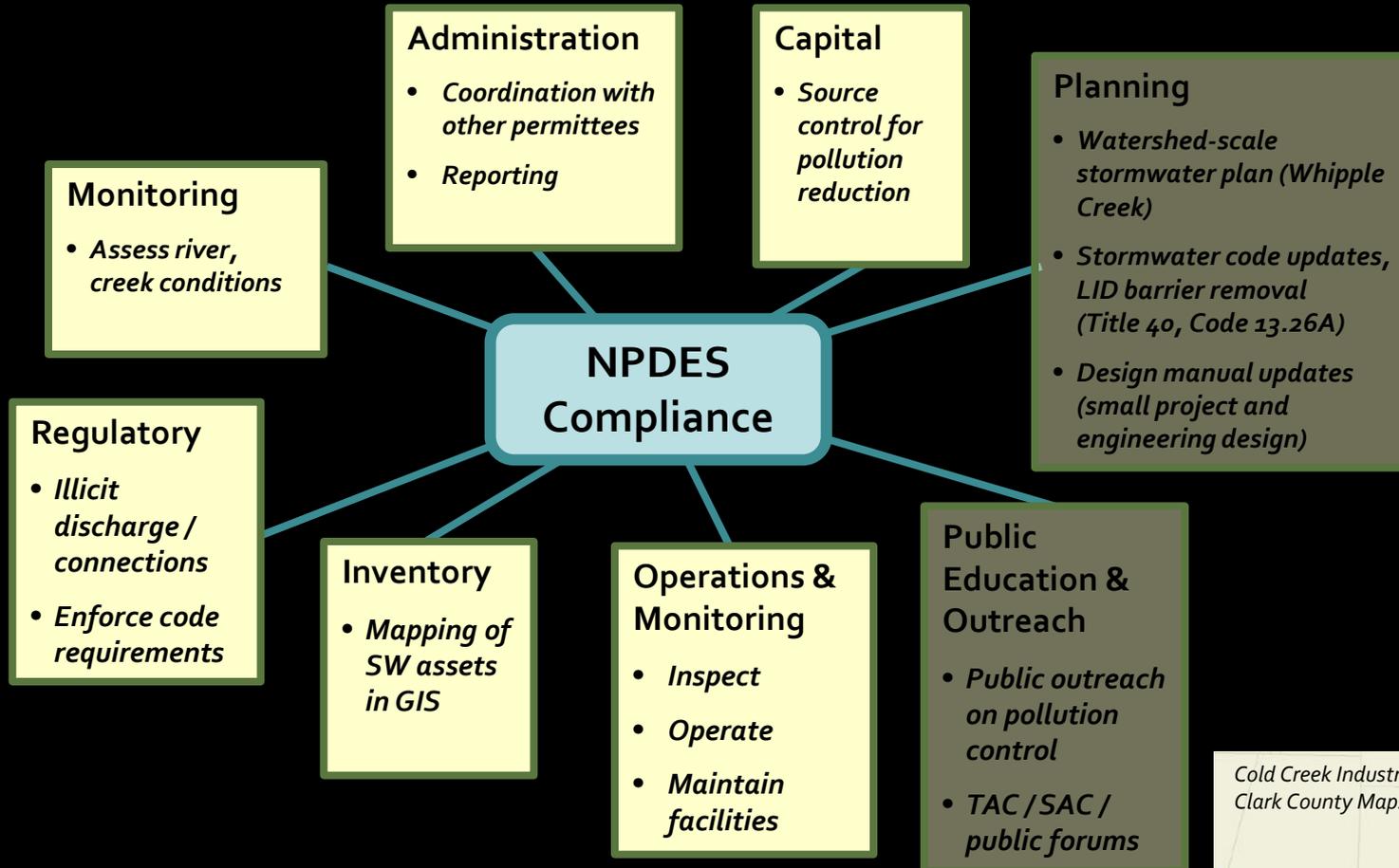
Stormwater Characterization\*  
 Program Effectiveness\*

Annual Report  
 Attachments – Summaries, Maps, Descriptions, Etc.

\* Major cost elements



# What are the changes as a result of the new permit? We will continue to (with moderate level work).....



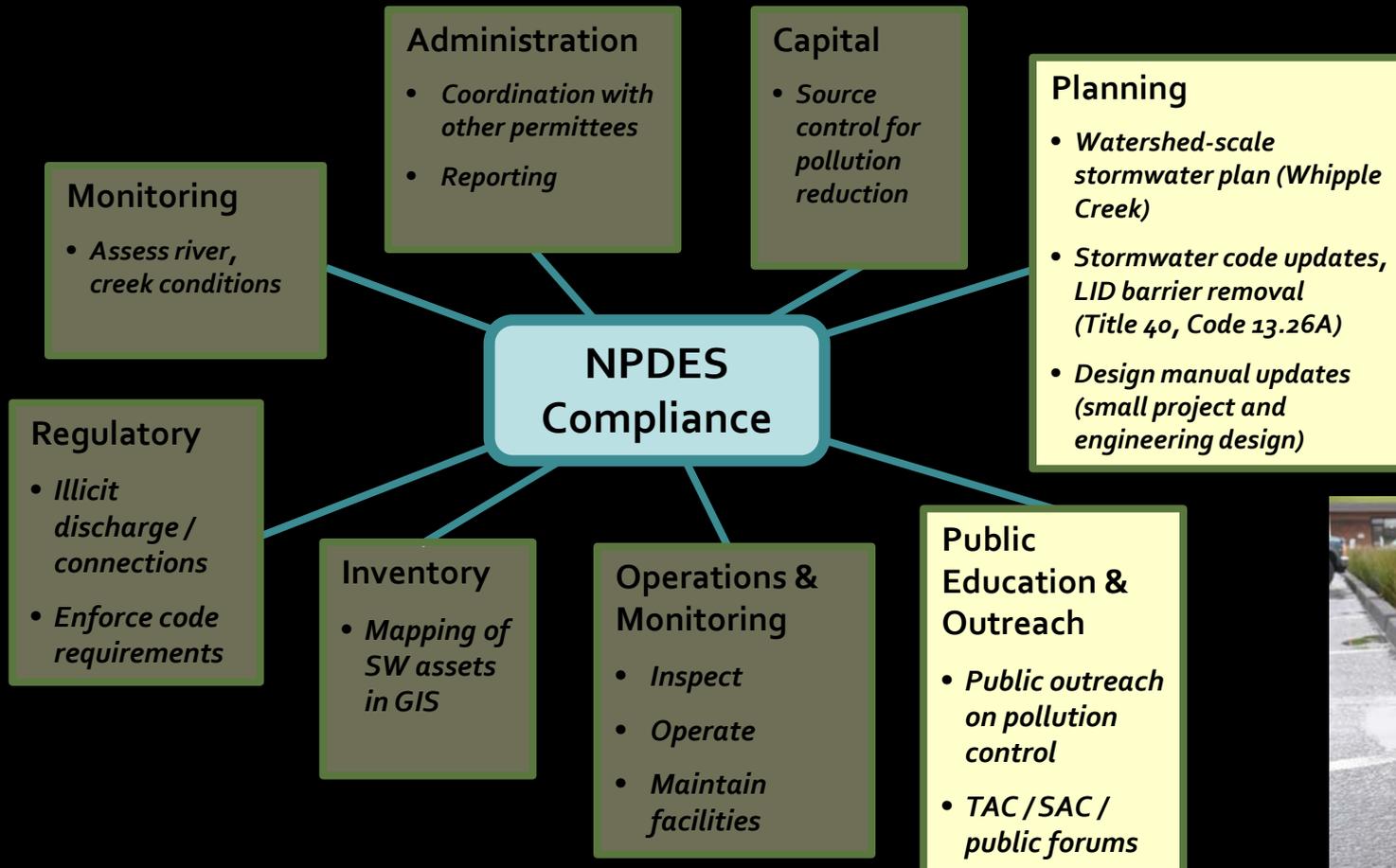
## FACTs –

- Clark County owns 870 stormwater facilities with over 170,000 individual assets (e.g. catch basins, manholes, inlets, ponds, etc.)
- The MS4 contains over 400 miles of pipes
- Staff inspects all county owned facilities, plus 1,020 private stormwater facilities annually

Cold Creek Industrial Park – Stormwater Bioretention  
Clark County MapsOnLine – Stormwater Layer



# What are the changes as a result of the new permit? Major work load items.....



New Seasons  
164<sup>th</sup> Avenue, Vancouver  
Rain Gardens and Rooftop plantings



# *Updating Our Stormwater Rules*

## VISION

Clark County's stormwater runoff is managed to protect the vitality of our community's waterways including our groundwater, rivers, and lakes while supporting an economically vibrant and livable community.

## MISSION

To create stormwater management regulations that comply with state and federal regulations while being flexible and tailored to multiple project types, and where cost effective making *Low Impact Development (LID)*\* the preferred approach for stormwater management

\* **LID** is an approach to land development (or re-development) that works with nature to manage stormwater as close to its source as possible. LID employs principles such as preserving and recreating natural landscape features, minimizing effective imperviousness to create functional and appealing site drainage that treat stormwater as a resource rather than a waste product. – EPA, webpage



# Updating Our Stormwater Rules

## GOALS

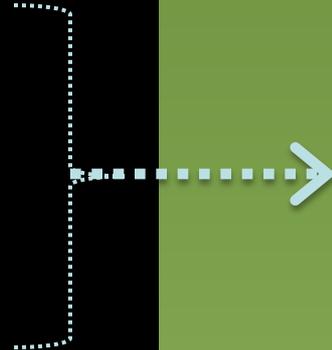
- **Adopt regulations that comply with state and federal water pollution laws** in reducing polluted storm runoff
- **Meet NPDES permit deadlines** to minimize exposure for the county to regulatory and legal challenges
- **Develop an integrated set of development codes** that protect resources from stormwater runoff, including the broad use of techniques that utilize low impact development (LID) practices
- **Tailor LID feasibility requirements** to local conditions like soils ensuring projects are effective and safe, and identifying flexible low cost alternatives for implementation



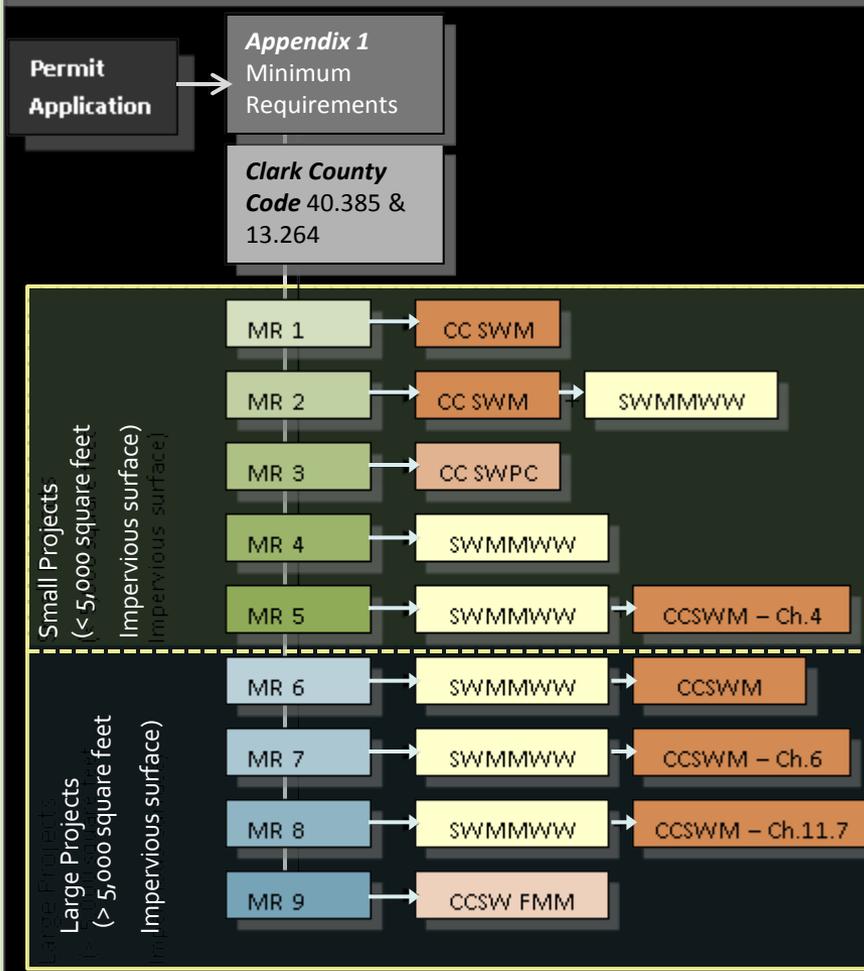
# Updating Our Stormwater Rules

## GOALS - continued

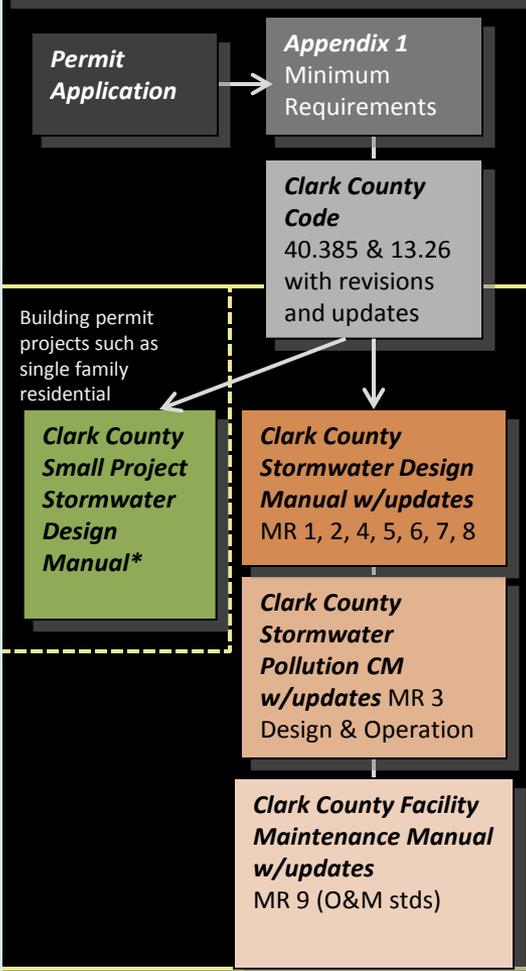
- **Create a single Stormwater Design Manual** for development projects that require engineering , including county roads
- **Create a clear and concise 'Small Project' guide for residential building projects** using a minimal amount of text and well-designed illustrations
- **Revise application and review processes to be streamlined,** articulate, cost effective and supported by county staff
- **Engage internal and external stakeholders in the update process** so that the resulting code is understandable and applicable to new development projects
- **Provide sufficient training and education for staff and the public** to understand how to implement new code requirements



### Current Development Application Process



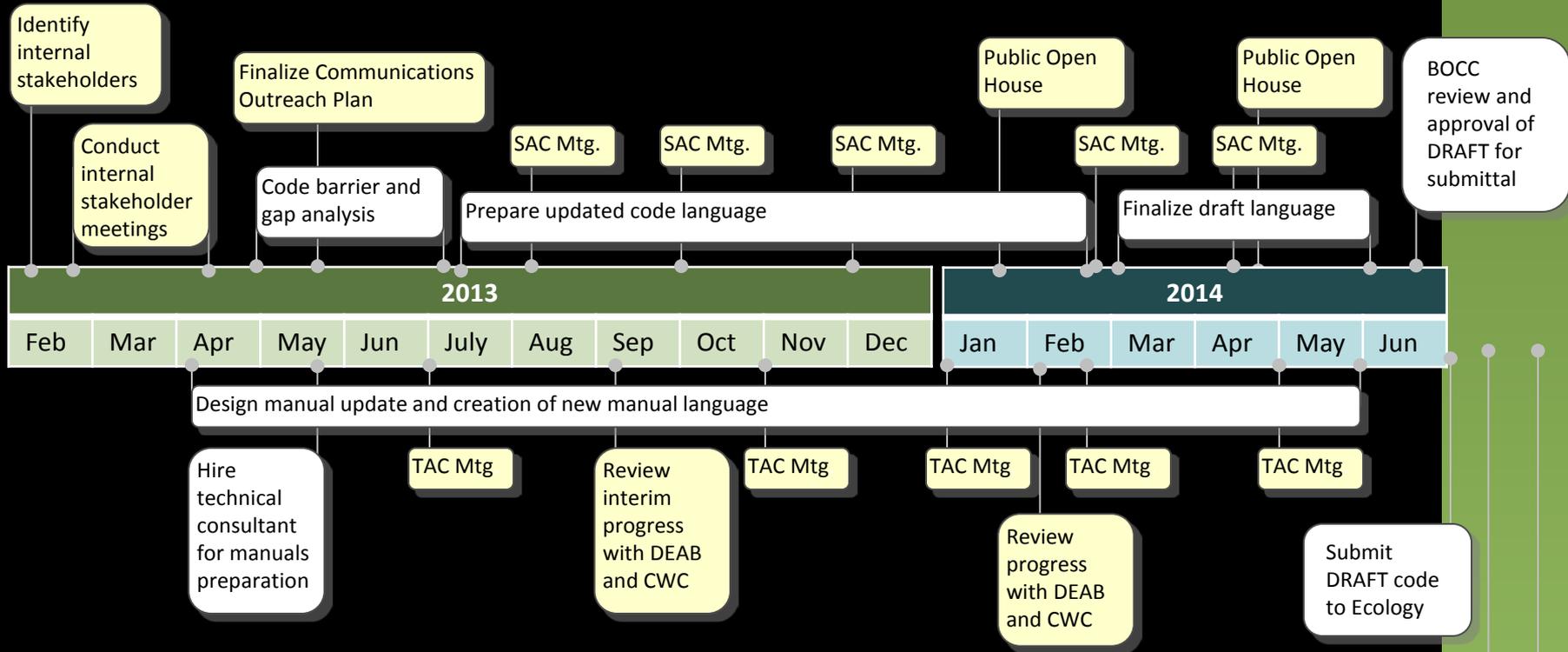
### Proposed Process



- CC SWM Clark County Stormwater Manual
- CC SWPC Clark County Stormwater Pollution Control Manual
- CCSW FMM Clark County Stormwater Facility Maintenance Manual
- SWMMWW Stormwater Management Manual for Western Washington
- Clark County Small Project SW Manual\*** New manual



# What is the anticipated schedule (tentative)



**NOTE:** Other outreach efforts will be scheduled based on more refined timelines and target audience, per the communications outreach plan. Number of scheduled meetings will be refined throughout the process.

Adopt final code and stormwater program updates **by June 30, 2015**

Submit Annual Report with summary of review and revision process by **March 31, 2016**



# *Need more information...*

Department of Environmental Services (DES)

[www.clark.wa.gov/water-resources/SWMP/sw%20ordinance%20update.html](http://www.clark.wa.gov/water-resources/SWMP/sw%20ordinance%20update.html)

# *What you can do...*

- Participate in the process and let us know your thoughts
- Participate in our Green Neighbors and Green Business programs (lots of ideas and options)

[clarkgreenneighbors.org](http://clarkgreenneighbors.org) & [clarkgreenbiz.com](http://clarkgreenbiz.com)

*Comments & questions?*

