

# Setting the Stage:

# Critical Areas Protection with Monitoring and Adaptive Management Basics

JANUARY 20, 2021



Washington  
Department of  
**FISH and  
WILDLIFE**



Washington State  
Department of  
**Commerce**



DEPARTMENT OF  
**ECOLOGY**  
State of Washington

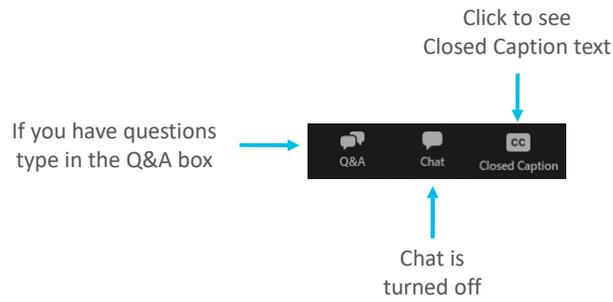
## 2021 Critical Areas and Shoreline Monitoring & Adaptive Management Online Workshops



Welcome to

Setting the Stage: Critical Areas Protection with Monitoring and Adaptive Management Basics

# 2021 Critical Areas and Shoreline Monitoring & Adaptive Management Online Workshops



# 2021 Critical Areas and Shoreline Monitoring & Adaptive Management Online Workshops

The screenshot shows a presentation slide on the left with the title 'How to Successfully Protect Critical Areas and Shorelines: A Step-by-Step Introduction to Monitoring and Adaptive Management' and the date 'JANUARY 13, 2021'. To the right of the slide are logos for the Washington Department of Fish and Wildlife, Washington State Department of Commerce, and the Department of Ecology, State of Washington. On the far right is a video call interface with two participants, one of whom is labeled 'Mara Sporne (BSU)'. An annotation 'Click in between to change size' with a white arrow points to the space between the slide and the video call.

## Visit Project Website for More Information

[https://www.ezview.wa.gov/site/alias\\_1992/37576/overview.aspx](https://www.ezview.wa.gov/site/alias_1992/37576/overview.aspx)

**EZview** Critical Areas Adaptive Management Training Workshops

Overview Contacts Events **2021 Workshops** Library (Portal ID #1992)

### 2021 Workshops

Do you want to know if your critical areas and shoreline regulations are working as intended? Or how to effectively track special permit conditions and mitigation requirements?

Please join us for an in depth review of best practices, case studies, resources, and tools to enhance monitoring and adaptive management efforts for your critical areas and shorelines.

As a follow-up to our 2018 workshops, this 11-week webinar series features expert guest speakers, opportunities for peer-to-peer learning, information sharing, and individual technical assistance.

Earn AICP continuing education credits for your attendance!

Click on a link below to register. (Most sessions are 90 minutes. A couple sessions may go up to 2 hours.)

- [Adaptive Management Workshop 1 – How to Successfully Protect Critical Areas and Shorelines: A Step-by-Step Introduction to Monitoring and Adaptive Management](#)
- [Adaptive Management Workshop 2 – Setting the Stage: Successful adaptive management and critical areas monitoring program basics](#)
- [Adaptive Management Workshop 3 – Wetlands](#)
- [Adaptive Management Workshop 4 – Geologically Hazardous](#)
- [Adaptive Management Workshop 5 – Fish and Wildlife Habitat Conservation Areas](#)
- [Adaptive Management Workshop 6 – Frequently Flooded Areas](#)
- [Adaptive Management Workshop 7 – Critical Aquifer Recharge Areas \(CARAs\)](#)
- [Adaptive Management Workshop 8 – Shoreline](#)
- [Adaptive Management Workshop 9 – Permit Implementation Monitoring Tools](#)
- [Adaptive Management Workshop 10 – CAQ Performance Indicators](#)
- [Adaptive Management Workshop 11 – Adaptive Management Interactive Workshop](#)

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## 2021 Critical Areas and Shoreline Monitoring & Adaptive Management Online Workshops



This project has been funded wholly or in part by the United States Environmental Protection Agency under assistance agreement PC-01J2230116-05251 through the Washington Department of Fish and Wildlife.

The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency or the Washington Department of Fish and Wildlife, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

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## Workshop Wednesday Series Lineup

Register using Zoom.



January 13 - 9:00 a.m. - 11:00 a.m.  
How to Successfully Protect Critical Areas and Shorelines: A Step-by-Step Introduction to Monitoring and Adaptive Management



February 24 - 9:00 a.m. - 11:00 a.m.  
Critical Aquifer Recharge Areas (CARAs)



January 20 - 9:00 a.m. - 11:00 a.m.  
Setting the Stage: Successful adaptive management and critical areas monitoring program basics



March 3 - 9:00 a.m. - 11:00 a.m.  
Shorelines



January 27 - 9:00 a.m. - 11:00 a.m.  
Wetlands



March 10 - 9:00 a.m. - 11:00 a.m.  
Permit Implementation Monitoring Tools



February 3 - 9:00 a.m. - 11:00 a.m.  
Geologically Hazardous Areas



March 17 - 9:00 a.m. - 11:00 a.m.  
CAO Performance Indicators



February 10 - 9:00 a.m. - 11:00 a.m.  
Fish and Wildlife Habitat Conservation Areas



March 24 - 9:00 a.m. - 11:00 a.m.  
Adaptive Management Interactive Workshop



February 17 - 9:00 a.m. - 11:00 a.m.  
Frequently Flooded Areas

Note: Workshop names may change but topic will stay the same.

## American Planning Association Education Credit

GO TO: [HTTPS://PLANNING.ORG/EVENTS/EVENTMULTI/9210027/](https://planning.org/events/eventmulti/9210027/)

The screenshot shows the American Planning Association (APA) website. The header includes the APA logo, the tagline 'Creating Great Communities for All', and navigation links for 'About APA', 'Join', and 'Log In'. A search bar is present with the text 'Enter keyword or phrase' and a 'Search' button. A main navigation menu includes 'Membership', 'Knowledge Center', 'Education and Events', 'AICP', 'Policy and Advocacy', 'Career Center', 'In Your Community', 'Connect with APA', and 'APA Foundation'. The 'Education and Events' section is expanded, showing 'Online Education' and 'Educational Events'. Under 'Educational Events', there are links for 'National Planning Conference', 'Policy and Advocacy Conference', 'Speaker Directory', 'Burnham Forum', and 'Calendar of Events'. The main content area displays the event title '2021 Critical Areas and Shorelines Monitoring and Adaptive Management Online Workshops' and the APA Washington Chapter logo. Below this, the event ID is #9210027, and the dates are listed as 'Wednesday, February 3, 2021, 9 a.m.' and 'Wednesday, March 24, 2021, 11 a.m. PDT' in 'Olympia, WA, United States'. An 'OVERVIEW' section follows, stating: 'In partnership with the Washington State Department of Ecology and the Washington State Department of Fish and Wildlife, the Washington State Department of Commerce is developing an 11-week webinar series featuring expert guest speakers, opportunities for peer-to-peer learning, information sharing, and technical assistance for local government planners seeking to start or enhance monitoring and adaptive management of the critical areas and shorelines in their jurisdictions.'

# Land Acknowledgment

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Discover which tribal lands you reside text your zip code to (907) 312-5085.



# Audience Engagement Poll

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## Meet Your Presenters



Genevieve Dial is a Senior Planner for the WA State Department of Commerce's Growth Management Services unit. She provides technical assistance on the Growth Management Act to jurisdictions in Eastern Washington. Gen worked as the program manager for Commerce's Defense Community Compatibility Account, the "Building Green Cities" project, addressing low impact development in stormwater projects, and is currently the project manager for this webinar series. She also has experience with the Voluntary Stewardship Program and a background in parks planning with The Trust for Public Land and Invasive Species Management with the State Recreation and Conservation Office. Gen obtained a bachelor of Arts in Environmental Studies from The Evergreen State College and a Masters in Urban and Regional Planning from Eastern Washington University.

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**Setting the stage  
for success with  
training,  
education,  
permits &  
development  
regulations**



## Local government resources for protecting and monitoring critical areas

1	Tools	Development Regulations
		Critical Area Maps & GIS data
2	Strategies	Permit Conditions & Monitoring Permits
		Site Plan & Monitoring Report Requirements
3	Opportunities	Application Process
		Outreach & Education, Staff Training & Expertise

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## The importance of training



You can't determine the effectiveness of your permits and development regulations if they're not consistently interpreted and implemented.

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## The who, what & where of staff training

-  Develop training information & materials.

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-  Who conducts training?

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-  Where are the resources and tools?

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-  Develop a communication tree.

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-  Explain expectations for staff notes/reports.

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-  Where is project info saved?

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-  Develop a succession plan.

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## Key elements to successful training

### Best Practices



Provide examples of staff code interpretations to ensure consistent understanding.

### Roles & Responsibilities



Determine who is responsible for reviewing applications. Make sure to cross-train & train across departments.

### Streamline Processes



Review other overlapping & concurrent environmental permits and process occurring, including cultural resources.

### Clear Expectations



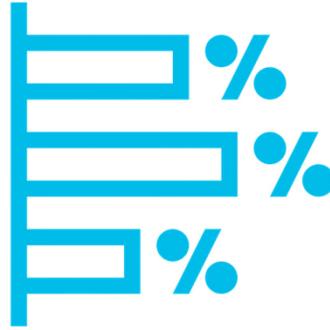
Provide descriptions and expectations for inspections, site visits, monitoring reports and permit conditions.



Determine who is responsible for approving exceptions and exemptions.

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# Audience Engagement Poll



# The importance of the pre-application process

**SHORELINE**  
Planning & Community Development

The purpose of the critical areas special use permit when the strict application of the critical area provisions of public services. This type of permitting jurisdiction.

Please expand fully to all of the following per Code. Your answers will be used in the staff review.

**Decision Criteria:** A critical areas special use public agency applicant demonstrates that:

1. The application of the critical areas regulations unreasonably restricts the ability of the public.
2. There is no other practical alternative to the cause less impact on the critical area.
3. The proposed development does not create will not be materially detrimental to the public health, safety or general welfare of the community.
4. This special use permit process shall not at retention/detention facilities except where necessary to protect public health and safety.
  - a. Type I or Type F underdrains stream.
  - b. Category I wetlands or buffers with peat.
  - c. Category I or II wetlands or buffers with peat or State or Federal designated demonstrated by the applicant, using such habitat.
5. Any alteration permitted to the critical area must mitigate standards for the impact.
6. Consistent with SMC 20.40.050, Alteration of critical areas, the proposal attempts to protect the existing critical area functions and values consistent with the best available science and attempts to mitigate adversely impacted critical area functions and values to the fullest extent possible; and
7. The proposal is consistent with other applicable regulations and standards.

Note: The applicant must provide the burden of proof that the requested special use complies with the criteria and standards, and mitigates impacts to critical areas.

**SHORELINE**  
PRE-APPLICATION MEETING SUBMITTAL CHECKLIST

**Planning & Community Development**

Pre-application meetings are an integral part of the application process. It is at this stage that the applicant can be provided with a description of the process, application submittal criteria, and help clarify other agency involvement. It also allows us, other city departments and some external agencies to acquaint ourselves with the proposal. **Pre-application meetings are mandatory for certain types of permits and land use actions. Optional pre-application meetings are available by request if desired.** The following information is necessary to schedule a pre-application meeting:

- Pre-Application Meeting Request (1 copy only)**
- Critical Area Worksheet.** A critical area report may be required if a critical area such as a stream, wetland, or steep slope exists on or is adjacent to the site.
- Submittal Fees:**
  - Mandatory meeting: \$475.00
  - Optional meeting: \$204.00
- Description of proposed project (6 copies):**
  - Written description, include as much detail as possible.
- General Information (4 copies):**
  - Address and parcel number of the property.
  - Existing use of property.
  - Proposed number of dwelling units (if applicable).
- List of Questions (4 copies):**
  - Specific areas that need clarification.
- Site Plan Information (to scale, 4 copies, 11 x 17 minimum size):**
  - Property lines with dimensions.
  - Proposed site modifications, structures, building and parking layout.
  - Existing site conditions, structures, building location and setbacks.
- Proposed vehicular access and driveways.**
- Location of proposed lot lines (if subdivision or other plan).**
- "Significant tree" (3" diameter at breast height for conifers, 12" for all others if known).**
- Existing drainage improvements (e.g. sidewalks).**
- Location of utilities and hydrants (if known).**
- Location of manholes of known - access, sidewalk, utilities.**
- Estimate of grading quantity (if known).**
- Critical areas (streams, wetlands, steep slopes, etc.), use the Critical Area Worksheet to help assess these features. Provide copies of any preliminary studies (stream typing, wetland delineation, geotechnical, etc.) if available.**
- Building Information (4 copies):**
  - Square footage (footprint and total).
  - Number of floors proposed.
  - Elevation (elevation).
  - Type of construction (if known).
  - Type of occupancy (if known).
  - Conceptual building floor plans (if possible).
- Optional Additional Information (4 copies):**
  - Water and sewer certificates.
  - Structural calculations.
  - Geotechnical reports.
  - Other draft studies or reports.

Pre-application meetings are scheduled on Tuesdays from either 9:00 to 10:30 or 10:30 to 12:00 am with a 14-day minimum lead time.

**NOTE: Plans presented at a pre-application meeting are non-binding and do not start a project in the event of a code change. Please be sure that all drawings are clear and information is legible. Number each page consecutively and staple them together with the site plan as your first sheet. No permit drawings will be accepted.**

Fees effective 1/2020  
The Development Code (Title 20) is located at [CityofPuyallup.com](http://CityofPuyallup.com)

## Pre-app considerations

- |   |  |
|---|--|
|  When are other agencies contacted?                    |  What threshold determines if a pre-app meeting is necessary? |
|  Is the checklist tailored to your code?               |  Do you offer a pre-app waiver? When & how are they waived?   |
|  How will you verify the questions in the application? |  How often to review and update the application?              |
|  How useful are your application checklists?           |  Do you have pre-app process? Is it mandatory or voluntary?   |

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## Pre-app questions to consider



- 1 Do your pre-app materials describe the complete application process?
- 2 Who attends the pre-app meeting? Is everyone who will interact with the property & permit involved?
- 3 What educational materials & opportunities do you provide applicants & your staff?
- 4 Does the application explain what triggers additional reports?
- 5 Do you offer maps or an online mapping tool?
- 6 How do applicants identify if they have a critical area on their property?

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# Educate, Educate, Educate

## Examples:

- Brochure on critical areas
- Questionnaire to guide applicants through process
- Flowchart of application process
- Critical area maps
- Lobby visits & staff consultations before pre-app mtg.

**Characterizing Your Audience**  
 What customer type makes up the largest impervious surface area?  
 Commercial  
 Residential

**Porous Asphalt**  
 Porous asphalt is a concrete or asphalt surface that allows water to infiltrate through the surface. It is used in parking lots, streets, and other areas where water runoff is a concern. It is made of aggregate and sand, and is designed to allow water to pass through the surface. It is a sustainable and environmentally friendly alternative to traditional asphalt and concrete surfaces.

**Benefits**  
 • Reduces stormwater runoff and improves water quality.  
 • Reduces the need for stormwater treatment plants.  
 • Reduces the risk of flooding and erosion.  
 • Reduces the need for stormwater management infrastructure.  
 • Reduces the need for stormwater management infrastructure.

**Design Tips**  
 • Use a porous asphalt mix with a high sand content.  
 • Use a porous asphalt mix with a high sand content.  
 • Use a porous asphalt mix with a high sand content.

**Permit Matrix**  
 The following table provides information on the types of permits and the jurisdictions that issue them. It is intended to provide a general overview of the permit process and is not intended to be used as a substitute for the specific requirements of the jurisdictions listed.

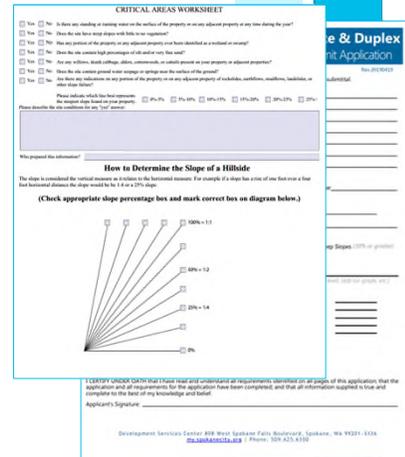
Permit	Local Jurisdiction	State	Federal
Residential	King County	Washington State	U.S. Department of Justice
Commercial	King County	Washington State	U.S. Department of Justice
Industrial	King County	Washington State	U.S. Department of Justice

# Permit applications, site plans, and monitoring reports



# Applications & critical areas worksheets

-  Do all permit applications include a critical areas worksheet?
-  If a critical area is present, how does it alter the application process?
-  How does the critical area information inform next steps?
-  How complete does the proposal need to be before an applicant comes in for review?



# Site plans

-  Is a site inspection required? If so, how often?
-  Are staff trained to know what to look for in site inspection visit?
-  What tools/processes are used for verifying critical areas on site?



## Monitoring reports



Use reminders for reporting deadlines and requirements.



At a minimum, require annual updates & site visits.



Include performance standards, goals & recommendations with examples.



Did the permit conditions achieve the desired outcome? If not, what needs to be changed?



How long will the monitoring period be set for? 5 or more years?



Require approval after submittal & have a plan for correcting deficiencies.

## Audience Engagement Poll



# The role of permit conditions & development regulations for tracking & monitoring



## Best management practices

**BMPS**

Make certain elements in permit database required, so that all staff enter information consistently and thoroughly.

Update permit tracking system to include important elements, such as: exceptions, exemptions, monitoring reports, etc.

Set-up checklists within your permit system for easy searches to find conditions.

Metrics can get buried in staff reports; put information in a permit database so it's easy to run reports.

## Tracking Permits

 How will your team monitor & track permits for consistency with the code; random selection or permit by permit?

 Create a step-by-step process that allows you to point to what is or isn't working & is easy to enforce.

### What to track

- Buffers:
  - Are they more or less protective than in CAO?
  - How often is buffer reduced or extended?
  - Is there variation in prescribed buffers?
- How often do 3<sup>rd</sup> party recommendations change the requirements?
- New impervious surface
- Riparian canopy cover
- Vegetation removal
- Coastal erosion

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## Audience Engagement Poll



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## Q&A

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TYPE YOUR QUESTIONS IN THE Q&A BOX IN YOUR TOOLBAR



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## Meet Your Presenters

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Jenna Kay is a long range planner with Clark County Community Planning. In this role she works on a variety of projects and programs related to land use and livability in the county. Jenna holds a Master's Degree in City Planning and a Certificate in Environmental Planning from Massachusetts Institute of Technology and a Bachelor's Degree in Earth and Environmental Sciences from Wesleyan University. She has also worked in the energy efficiency, mediation, and outdoor education fields.



Ariel Whitacre is a Biologist at Clark County, focusing on wetland and habitat permitting and monitoring compliance for land use development and residential projects.

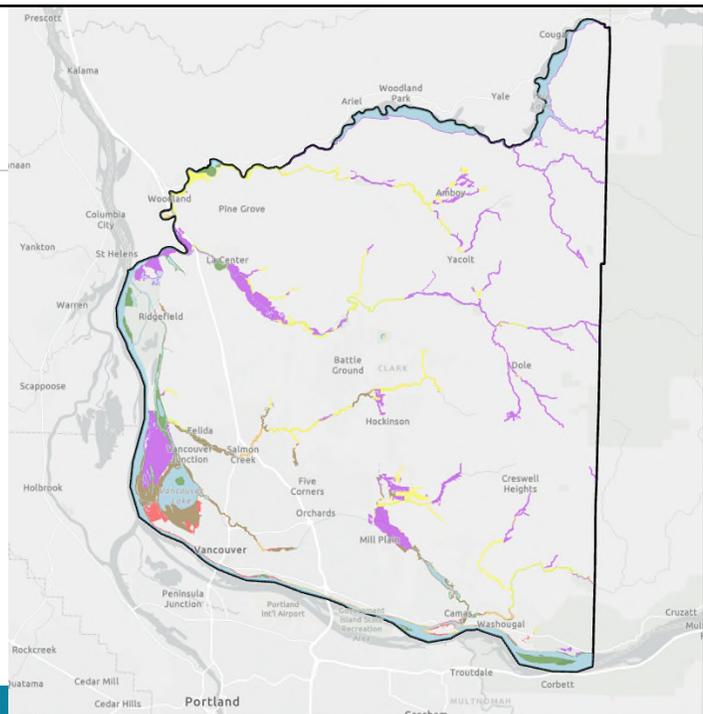
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# Shoreline Master Program Permit Data Collection & Compliance Monitoring

Jenna Kay and Ariel Whitacre  
Clark County Community Planning

## Background Context

- 2012 SMP Comprehensive Update
- Clark County Coalition
- Created Monitoring and Adaptive Management Framework



## Monitoring and Adaptive Management Framework

- Acknowledge uncertainty
- Continued assessment of incremental activities
- Address SMA monitoring requirements
- Improve shoreline management over time
- Ensure meet SMP goals

### CLARK COUNTY COALITION SMP UPDATE

BATTLE GROUND | CAMAS | CLARK COUNTY | LA CENTER  
RIDGEFIELD | VANCOUVER | WASHOUGAL | YACOLT



### MONITORING AND ADAPTIVE MANAGEMENT FRAMEWORK

June 2012  
City of Vancouver  
Grant No. G1000058

## Monitoring Types

- **Compliance Monitoring**
- Effectiveness Monitoring
- Validation Monitoring

- What did we approve?
- Did we issue permits consistent with regulations?
- Are projects built to comply with all permit conditions?
- Are mitigation projects adequately constructed and appropriately monitored?

## Permit Data Collection

- Permit Data Collection
- Bi-annual Data Consolidation and Review
- Mid-SMP Cycle Consolidation and Analysis
- 8-year SMP Update



## Permit Tracking Matrices

- Permit No.
- Type
- Shoreline Waterbody
- Shoreline Designation
- Parcel #
- General Description
- In-over-water structure
- Shoreline stabilization
- Fill
- Clearing/grading
- Impervious surface
- Mitigation

### Changed

- *Building permit #*
- *Separation of in- and over-water structures*
- *Expanded fill details, i.e. above/below OHWM, in 100-yr floodplain, in wetland*
- *Habitat impacts above/below OHWM*
- *Off-site mitigation location*
- *Restoration data*

Table A-1. Clark Co.

Permit No.	Type (SMP, CO, Var)	Shoreline Waterbody	Shoreline Designation	Assessor Parcel No.	General Description (attach map)	Water (Dist. Point, River, etc.)
A						
B						
C						
D						
E						
F						
G						
H						
I						
J						
K						
L						
..						

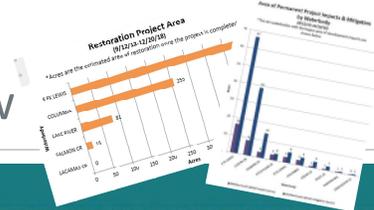
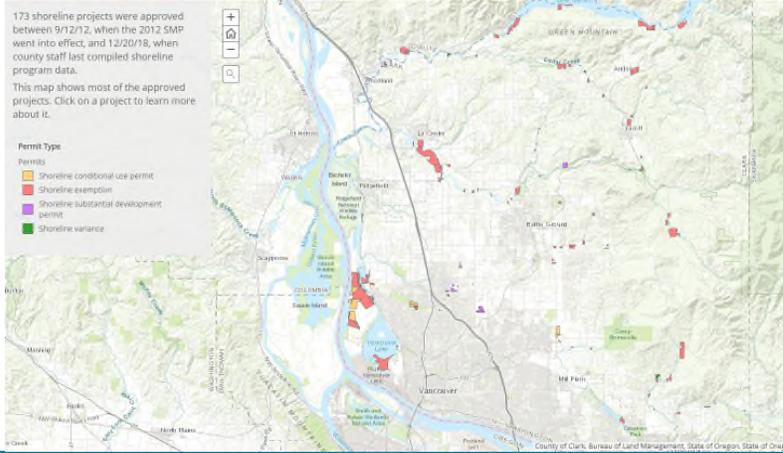


# Permit Data Cumulative Review

## Shoreline Preliminary Data

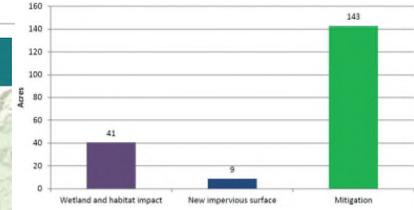
173 shoreline projects were approved between 9/12/12, when the 2012 SMP went into effect, and 12/20/18, when county staff last compiled shoreline program data. This map shows most of the approved projects. Click on a project to learn more about it.

- Permit Type**
- Shoreline conditional use permit
  - Shoreline exemption
  - Shoreline substantial development permit
  - Shoreline variance

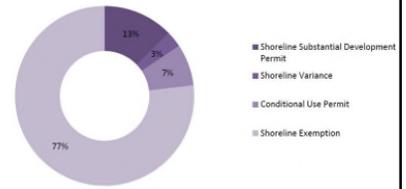


## Area of Permanent Project Impacts & Mitigation (9/12/12-12/20/18)

\*There is some overlap between the wetland/habitat and impervious surface impacts



## Projects by Permit Type (9/12/12-12/20/18)



Storymap

# New Permit Software (LMS)

- Added shoreline metrics into system
- Replaced 1-pager
- Run report to export data
- Months to minutes

Project Impacts (Occurs within Shoreline Management Area)	Shoreline Project Summary
<b>In Water Structures</b>	Shoreline After the Fact: <input type="checkbox"/>
Total Footprint (sq. ft.): <input type="text" value="0"/>	Shoreline of Statewide Significance: <input checked="" type="checkbox"/>
Number of Piers or Piles: <input type="text" value="0"/>	Shoreline Designation
<b>Over Water Structures</b>	Aquatic: <input type="checkbox"/>
Total Footprint (sq. ft.): <input type="text" value="0"/>	High Intensity: <input type="checkbox"/>
<b>Shoreline Stabilization</b>	Medium Intensity: <input checked="" type="checkbox"/>
<b>Structural</b>	Natural: <input type="checkbox"/>
Bulkhead: <input type="checkbox"/> Revetment: <input type="checkbox"/>	Rural Conservancy - Residential: <input type="checkbox"/>
Rip-Rap: <input type="checkbox"/> Other: <input type="checkbox"/>	Rural Conservancy - Resource Lands: <input type="checkbox"/>
Structural Total Length (ft.): <input type="text" value="0"/>	Urban Conservancy: <input type="checkbox"/>
<b>Non Structural</b>	<b>Shoreline Restoration</b>
Bio-Engineered: <input type="checkbox"/> Relocation: <input type="checkbox"/>	Mitigations for Impacts within the SMA
Setback: <input type="checkbox"/> Other: <input type="checkbox"/>	Restoration for Temporary Clearing: <input type="checkbox"/>
Non Structural Total Length (ft.): <input type="text" value="0"/>	Enhancement (sq. ft.): <input type="text" value="0"/>
<b>Land Disturbance</b>	Floodplain Replacement (cu. yd.): <input type="text" value="0"/>
Clearing Footprint (sq. ft.): <input type="text" value="0"/>	In Lieu Fee or Bank Credit Purchase: <input type="checkbox"/>
New Impervious Surface (sq. ft.): <input type="text" value="0"/>	New Mitigation Credits: <input type="checkbox"/>
Grading Footprint (sq. ft.): <input type="text" value="+/-10sf"/>	On Site: <input type="checkbox"/>
Floodway Modification: <input type="checkbox"/>	Off Site: <input type="checkbox"/>
<b>Fills</b>	Rehabilitation (sq. ft.): <input type="text" value="0"/>
Floodplain: <input type="checkbox"/>	Wetland Creation (sq. ft.): <input type="text" value="0"/>
Footprint (sq. ft.): <input type="text" value="0"/>	Restoration for Unpermitted Clearing: <input type="checkbox"/>
Volume (net cu. yd.): <input type="text" value="0"/>	Enhancement (sq. ft.): <input type="text" value="0"/>

## Mitigation Monitoring

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### Purpose and Importance:

- Promotes no net loss of critical area and shoreline ecological function
- Creates financial/temporal commitments that disincentivize avoidable impacts
- Creates fair and consistent expectations
- Ensures compliance with local ordinances and state law

### Information gained:

- Are projects in compliance with permit conditions?
- Are mitigation projects adequately constructed and appropriately monitored?

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## Ensuring permit compliance:

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- **Requirements:**
  - Mitigation goals and objectives
  - Performance standards
  - As-built report
  - Periodic monitoring reports
  - Contingency plan



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## Ensuring permit compliance

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- **Mitigation goals and objectives**
  - Goals identify what the project is trying to accomplish
  - Objectives identify specific elements that are undertaken to meet the goals of the project
- **Performance Standards:**
  - Performance standards are measurable criteria for determining if the goals and objectives are being achieved

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## Ensuring permit compliance

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- **As-built report:**
  - An “as-built” report provides documentation of what actually occurred onsite during construction and serves as a baseline from which to manage and monitor the site
  - Requirement is conditioned in shoreline permit
  - Project construction is not approved until an as-built has been submitted and approved by the County
  - In cases where timing prohibits completion of planting, a financial assurance may be approved in lieu of as-built.

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## Ensuring permit compliance

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- **Monitoring requirements:**

- Monitoring helps ensure that a compensation project achieves its stated purpose and complies with permit obligations.
- It may also be used to determine whether a site needs maintenance or whether the applicant needs to make corrective actions.

- Typical Monitoring requirements:

	Land Use Projects	Residential Projects
Length	5-10 yrs	3-5 yrs
Formal Report	Required	Not required
Site Visit	Required	Typically required
Fees	Required	Only when out of compliance

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## Ensuring permit compliance

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- **Contingency Plans:**

- Required within mitigation plan during permit review
- Should outline actions that would be taken if monitoring reveals that performance standards are not met.
- Clark County may extend monitoring period if performance standards are not met. A deficiency will be added to the County's online database.

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## Monitoring Mitigation Projects

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- **Clark County Monitoring Framework:**
  - Historically relied on voluntary compliance and financial assurances to ensure monitoring compliance.
  - Assign designated staff person to tackle monitoring where feasible
  - Use of software or data management programs to create and track individual monitoring cases for each wetland, habitat and shoreline permit.
  - Each case is customized with # monitoring years and due dates
  - Ability to query data to overdue or out of compliance cases
  - Follow up annually with permittees to gain voluntary compliance
  - Last resort: code enforcement or make claim on financial assurance

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## Monitoring Program Framework

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- Staff compiled data from shoreline, wetland and habitat permits from last 10 years requiring monitoring
- Staff identified 128/~262 non-compliant monitoring cases
- Letters were sent for each of the 128 delinquent cases in May of 2020

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## Monitoring Program Framework

- Of the 128 delinquent cases:
  - 17.9% (23 cases) voluntarily complied
  - 15.6% (20 cases) inquired/intend to comply
  - 47.7% (61 case) had no response
  - 15.6% (20 cases) were returned by the post office
  - 3.1% (4 cases) unwilling to comply



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### Challenges

### Lessons Learned

1.	Information buried	Specific metrics to track → 1-pager → LMS system
2.	Applicants don't correctly fill-out 1-pager/metrics	Staff responsible for accuracy/completeness
3.	Data not always entered on sheet or in database	People and tech solutions
4.	Inconsistent units	Pick a unit and be consistent
5.	Permit data may raise questions	Education and reporting

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## Challenges

## Lessons Learned

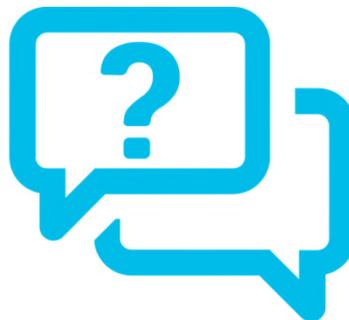
6.	Relying on applicants to voluntarily comply	Use LMS to track and schedule monitoring inspections
7.	Change of property ownership	Send annual informational letters
8.	How to address continued non-compliance	Additional code enforcement or financial assurance resources needed

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## Q&A

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TYPE YOUR QUESTIONS IN THE Q&A BOX IN YOUR TOOLBAR



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## Meet Your Presenters

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Dave Ward manages long-range planning and environmental programs for Kitsap County. Dave has focused on the relationship of the built and natural environments for over thirty years. His approach emphasizes goal-oriented communications, developing networks of people to collectively solve complex problems, building capacity and critical thinking within organizations to produce goal-driven change, and bringing the best available social science to address human and environmental wellbeing. Aside from that, Dave can often be found in his organic furniture shop or in a forest with his dog, enjoying the diversity of life.

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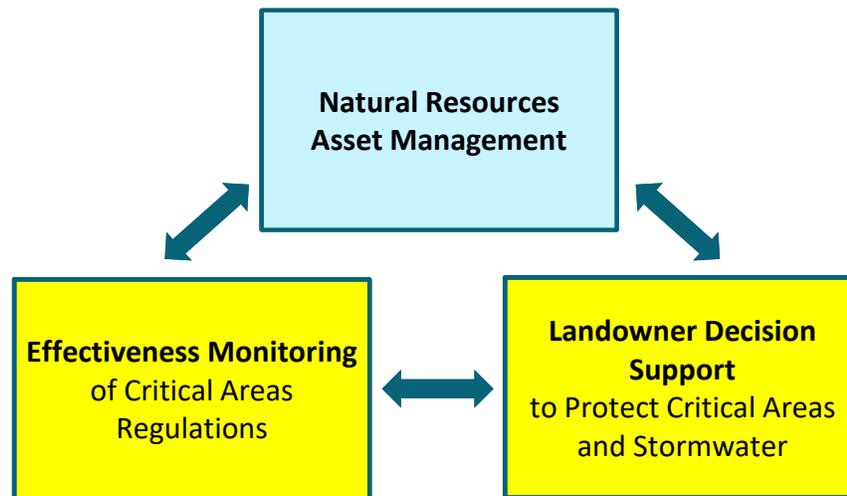
## **National Estuary Program – Near-Term Actions:**

**Effectiveness Monitoring of critical area regulations  
Landowner Decision Support to protect critical areas  
and manage stormwater**

Dave Ward, Kitsap County

## Connected NEP-funded Projects

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## Effectiveness Monitoring

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### **Need for effectiveness monitoring**

- Are our laws working?
- Are they having the desired effect?

### **Desire for effectiveness monitoring**

- Lovers of environmental protection
- Haters of environmental regulation
- Local government perspective of environmental regulation

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## Why don't we all have good programs?

### What's missing?

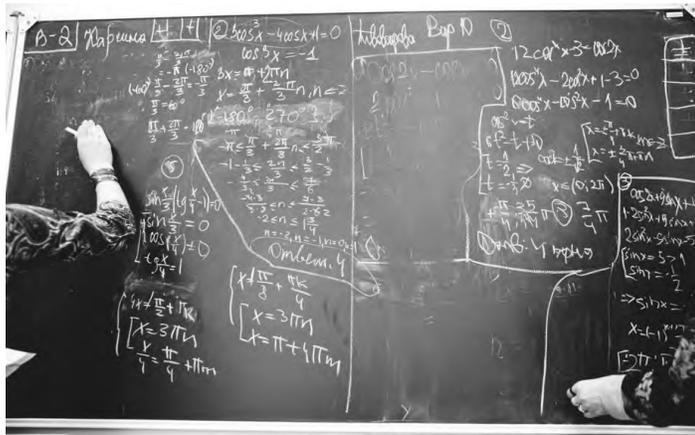
- Good conceptual model
- Clear objectives
- Transferable program
- Affordability
- Staff resources
- Data systems
- Funding source



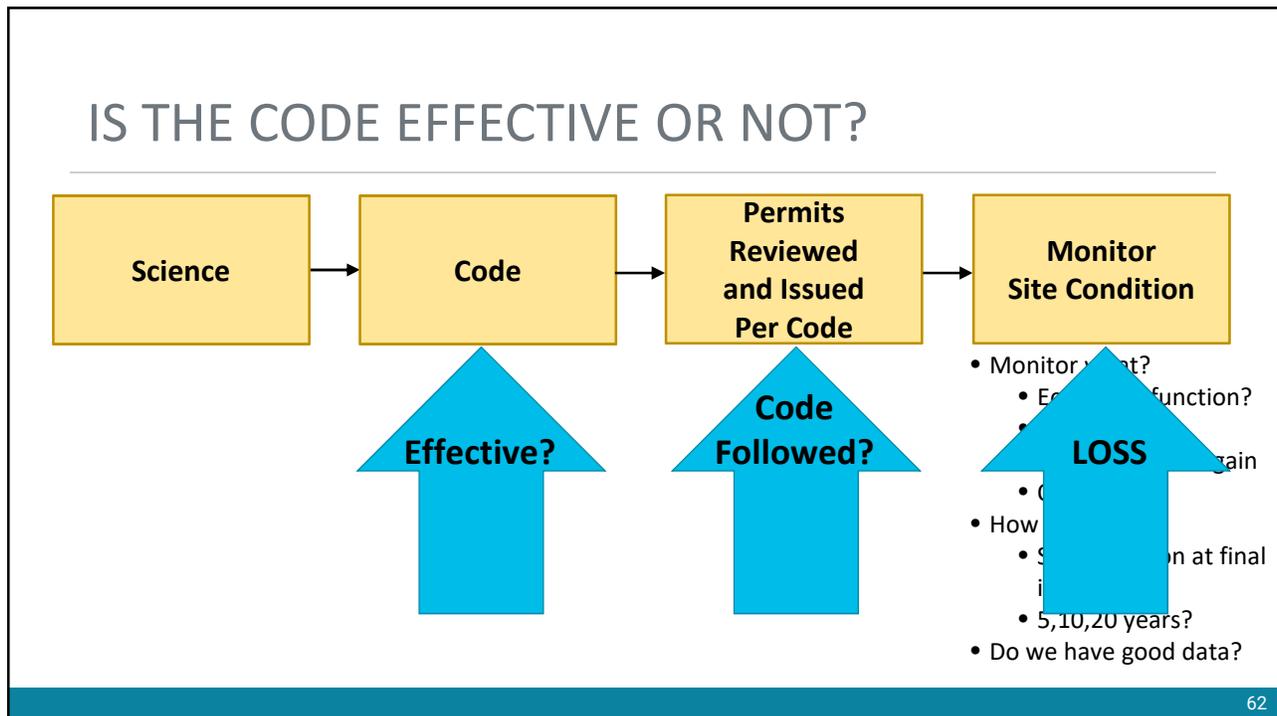
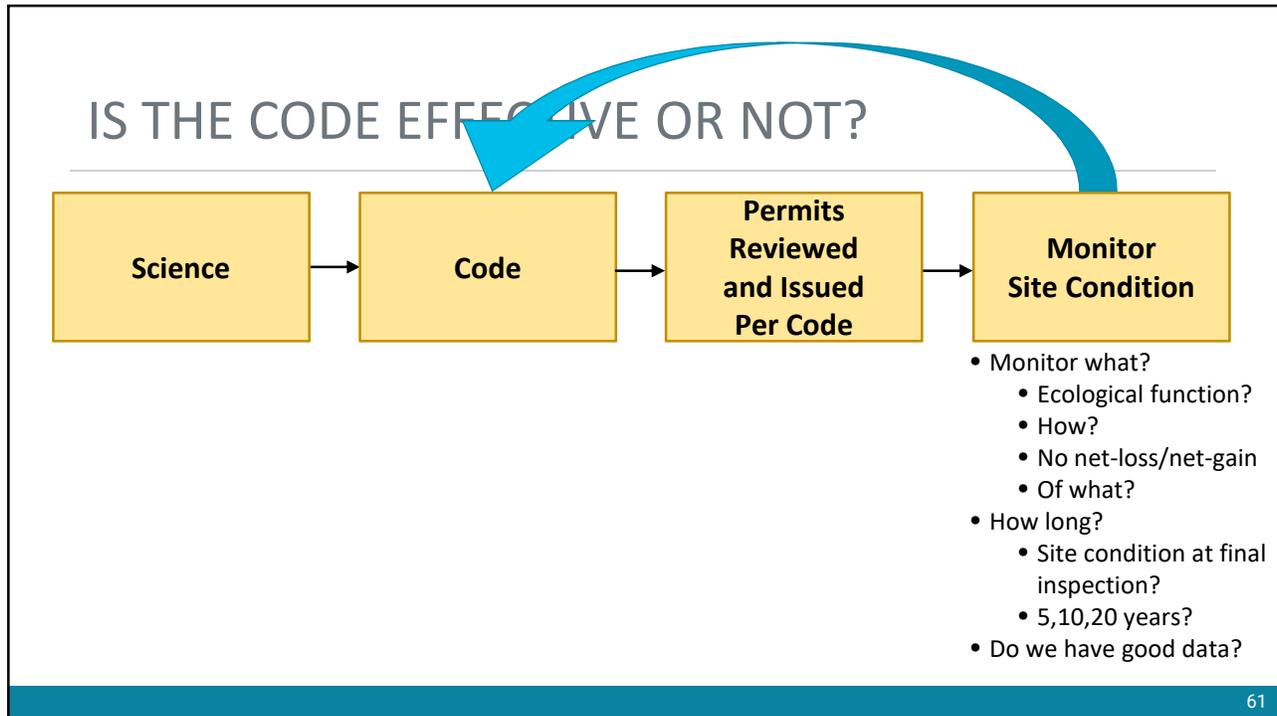
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## Why don't we all have good programs?

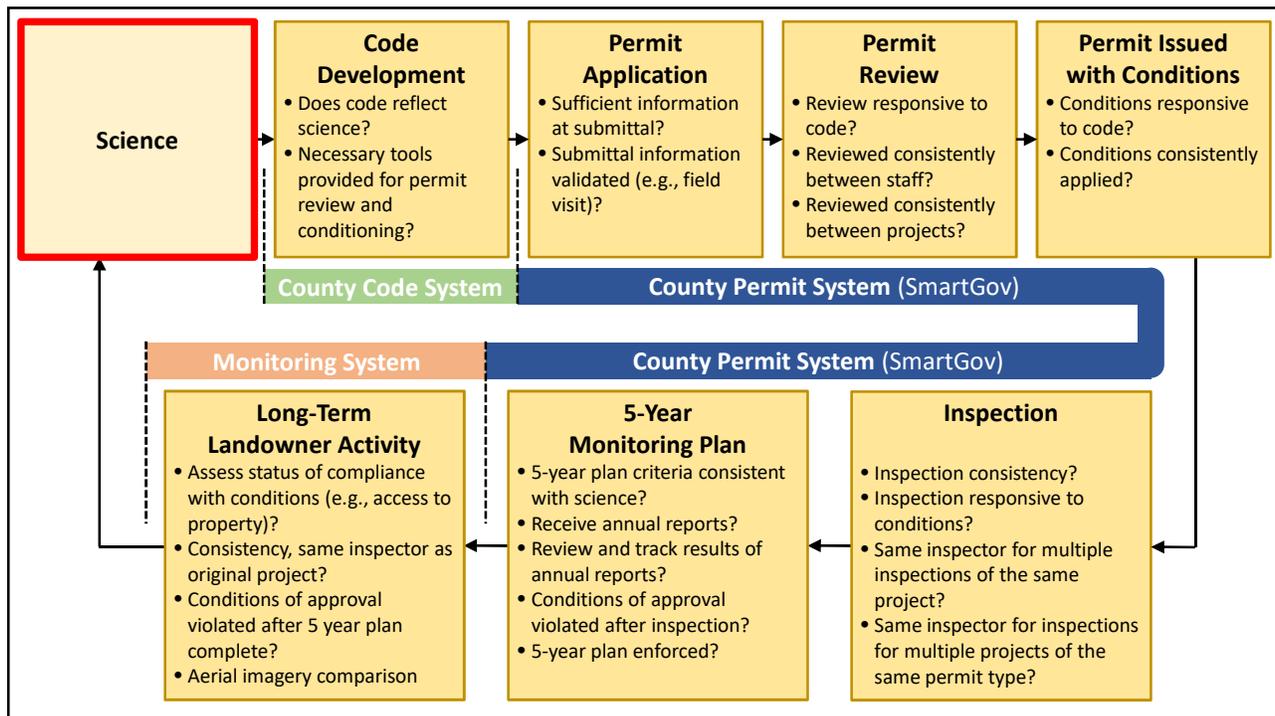
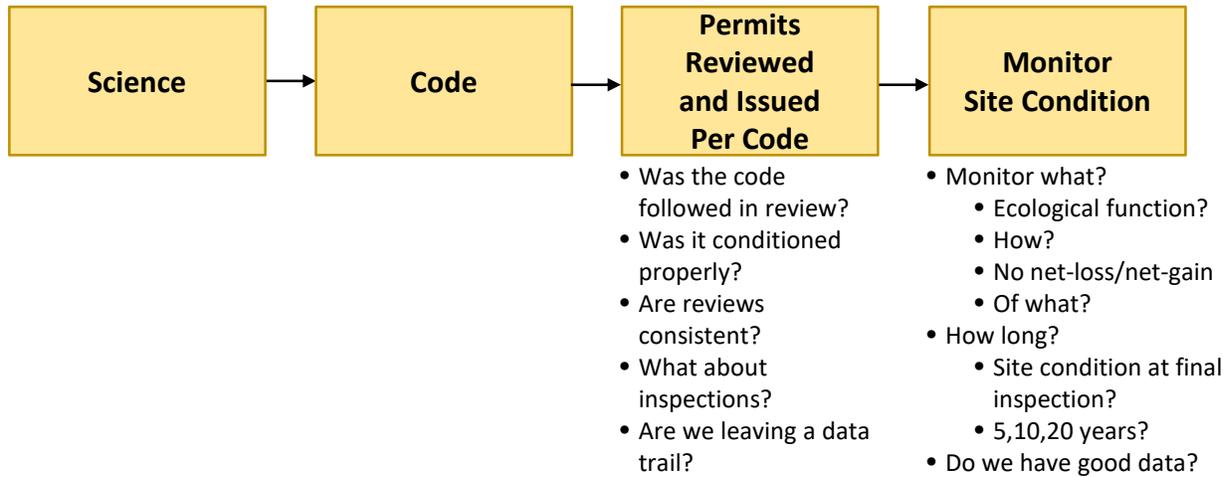
**It gets complex really fast!**

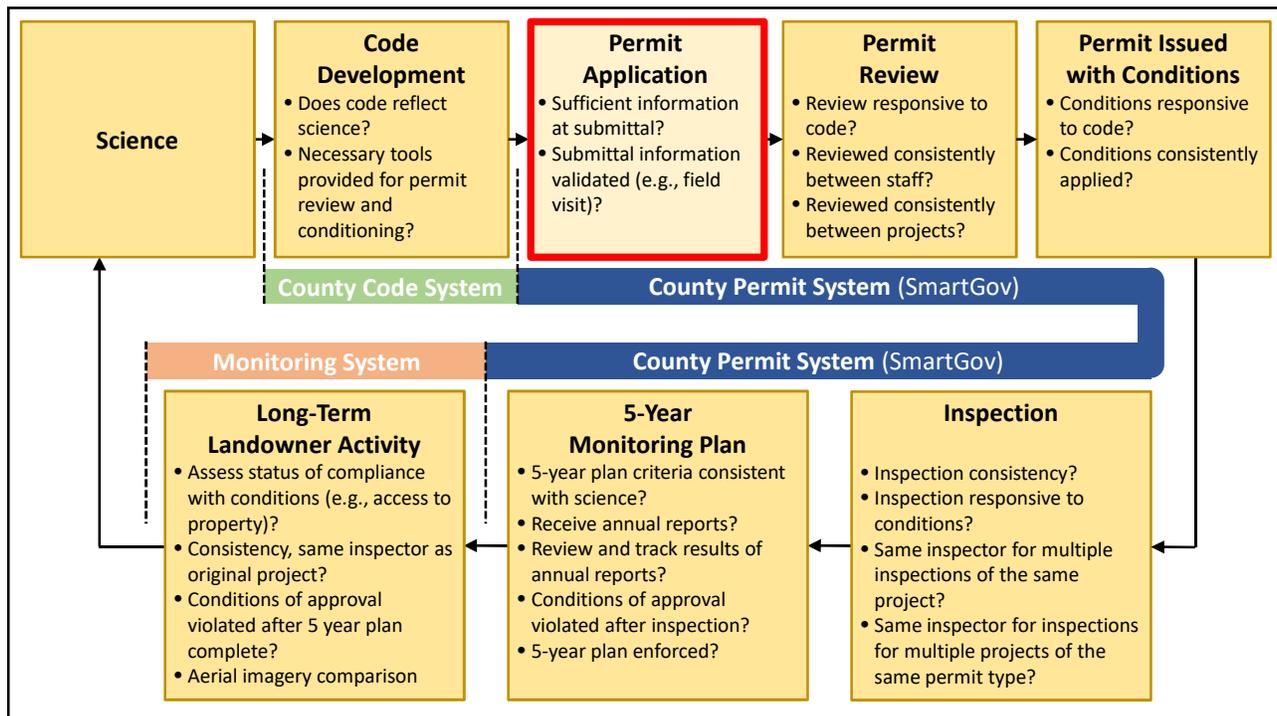
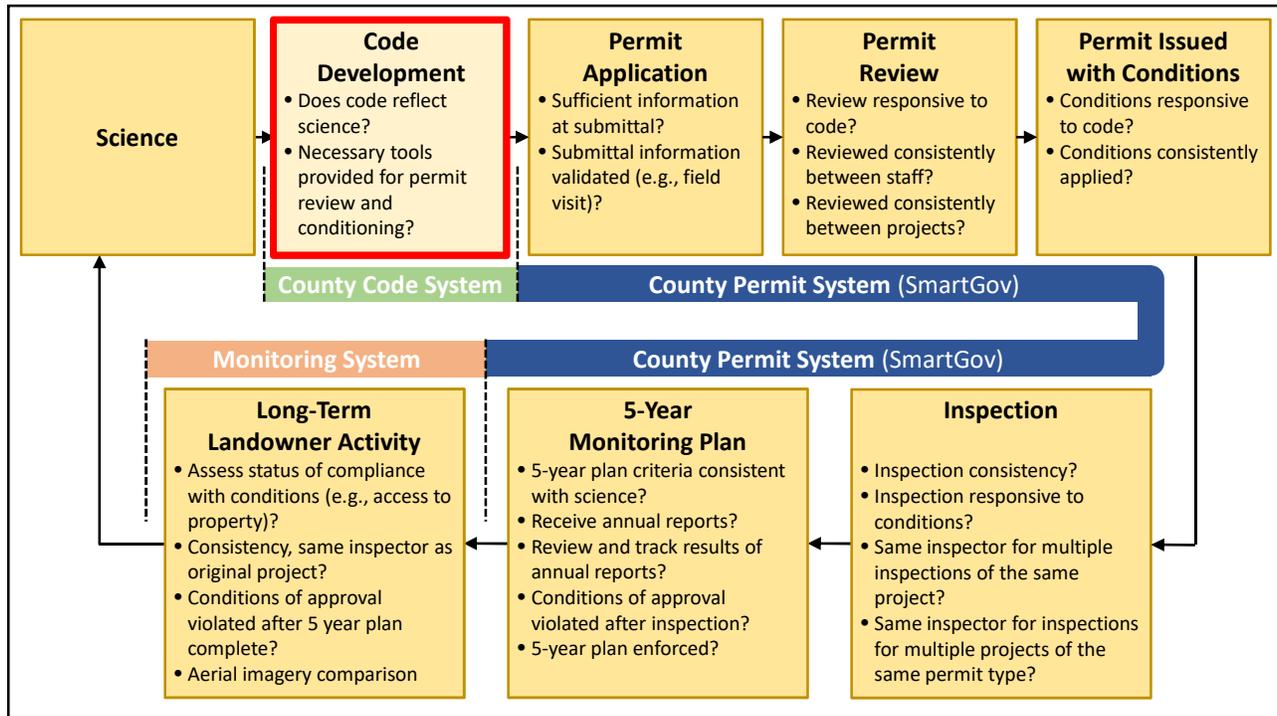


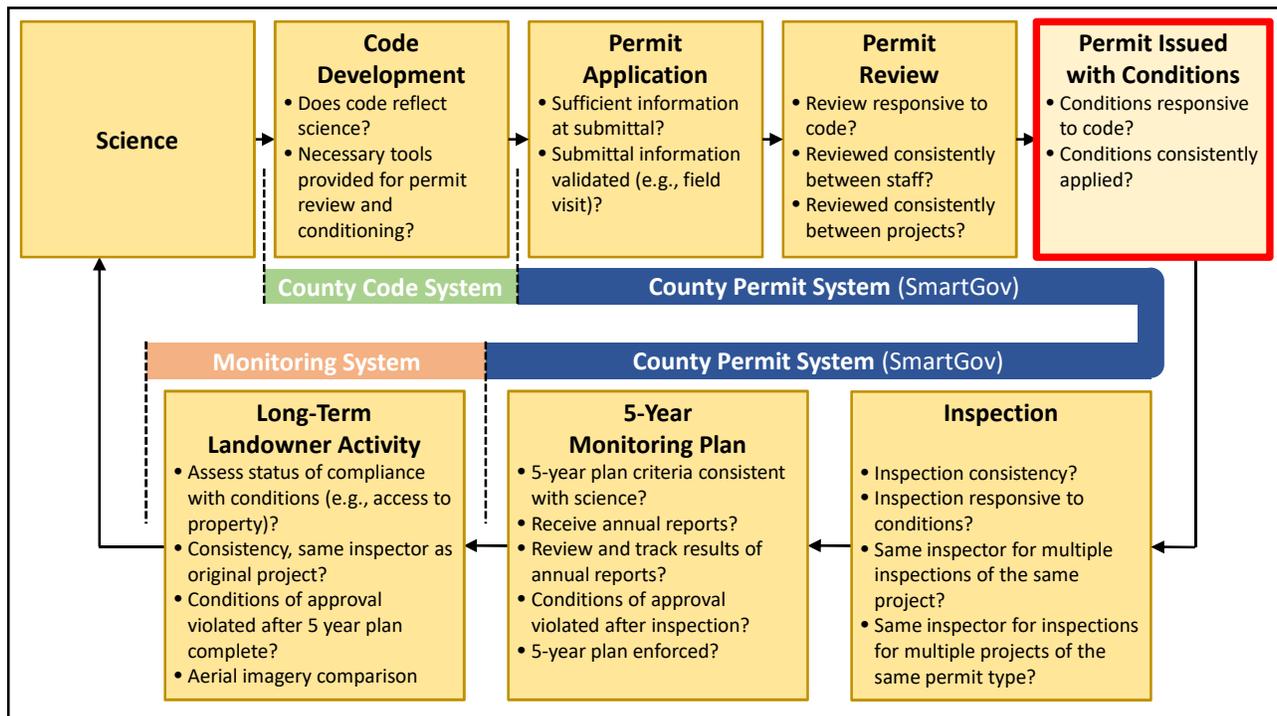
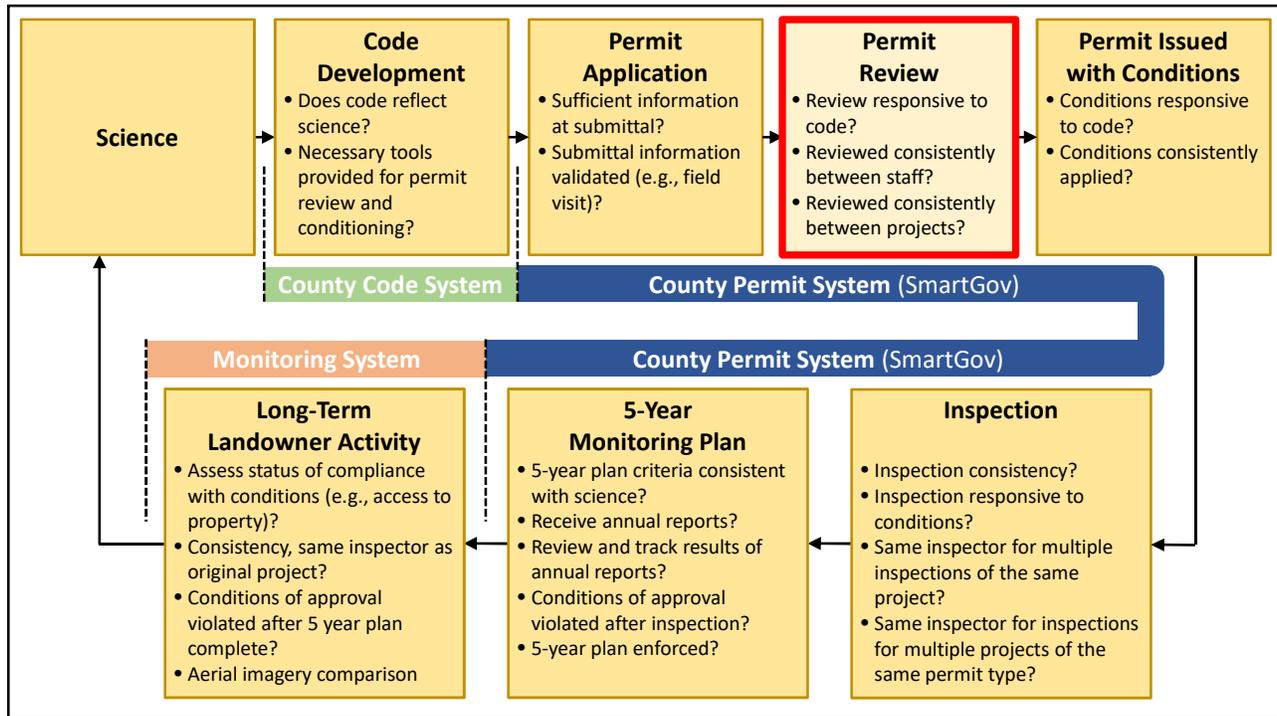
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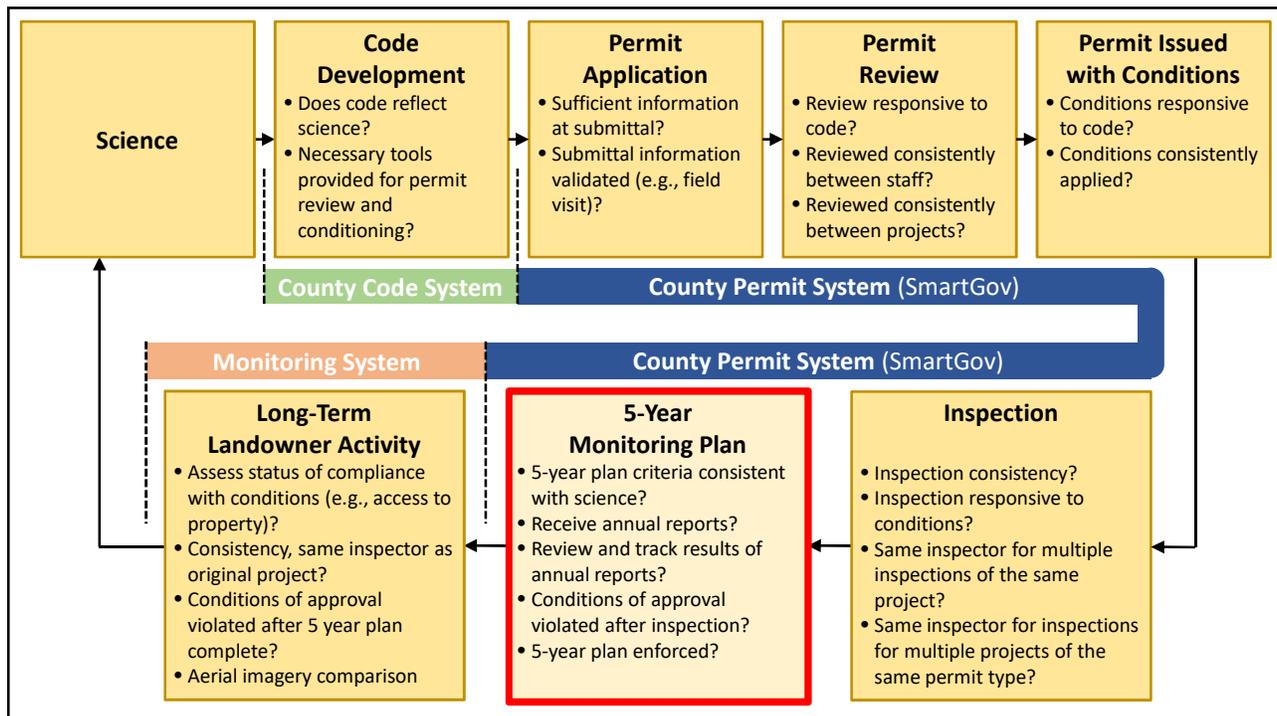
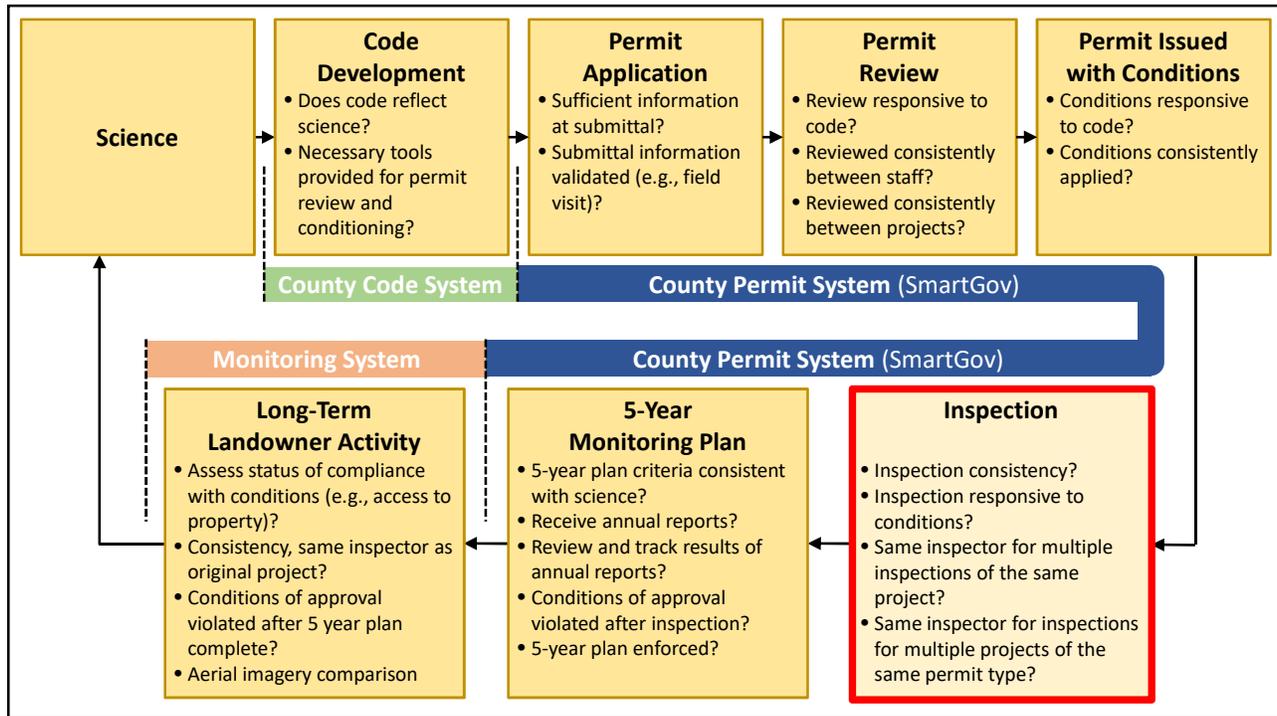


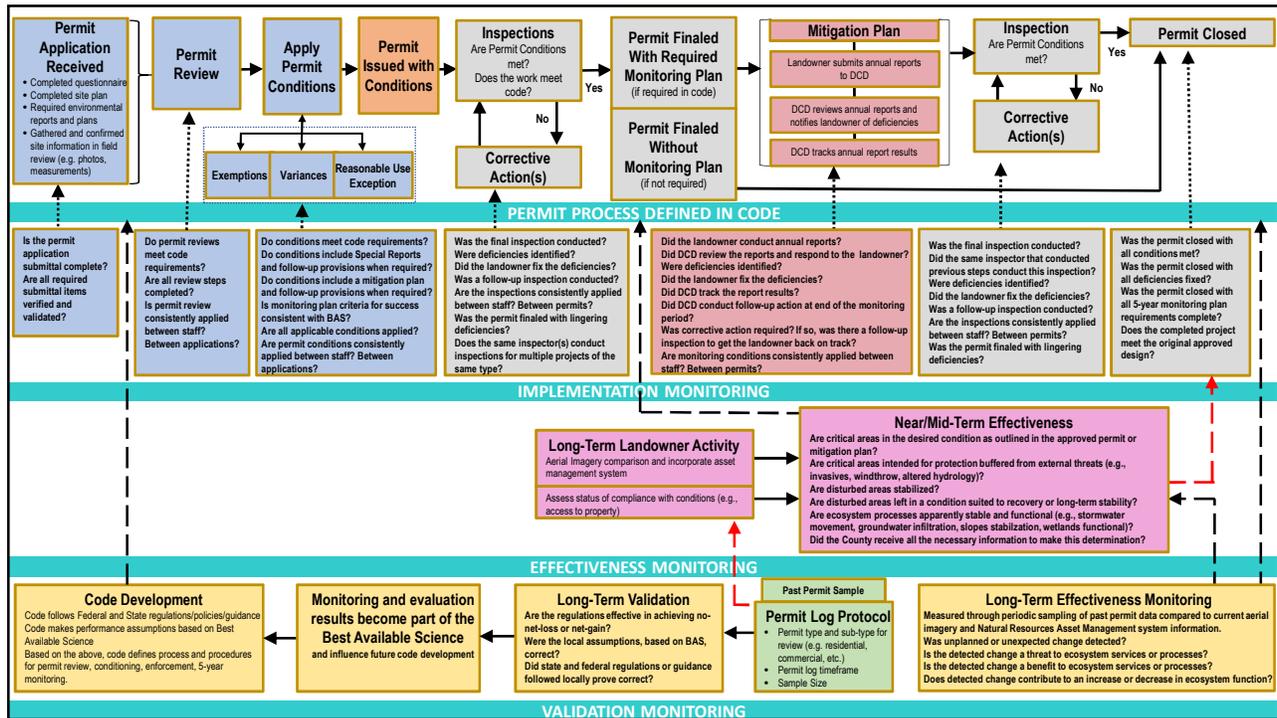
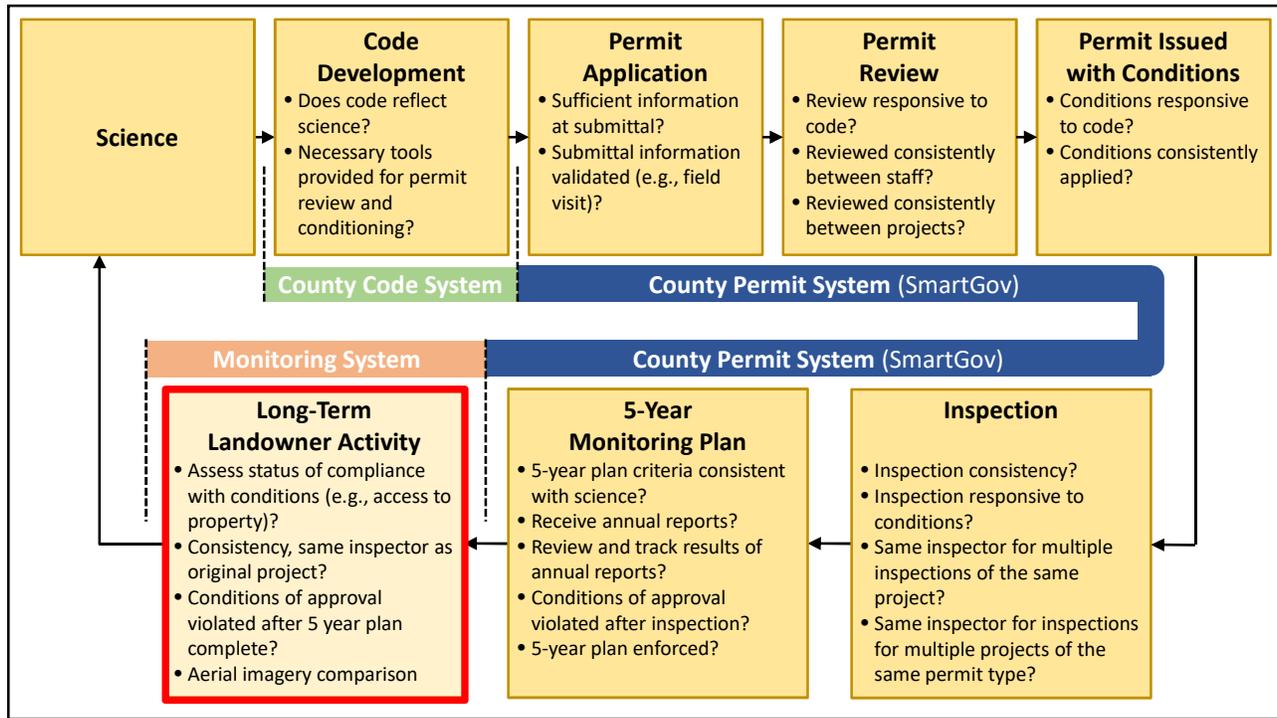
# IS THE CODE EFFECTIVE OR NOT?

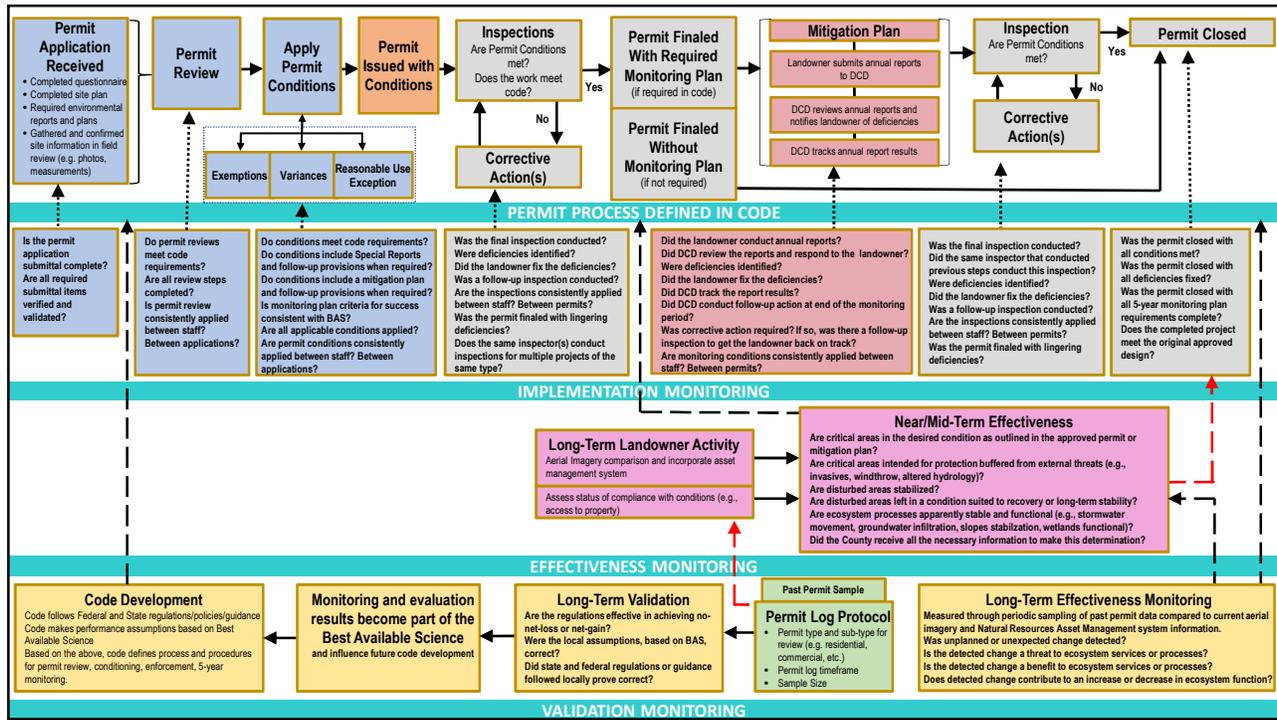








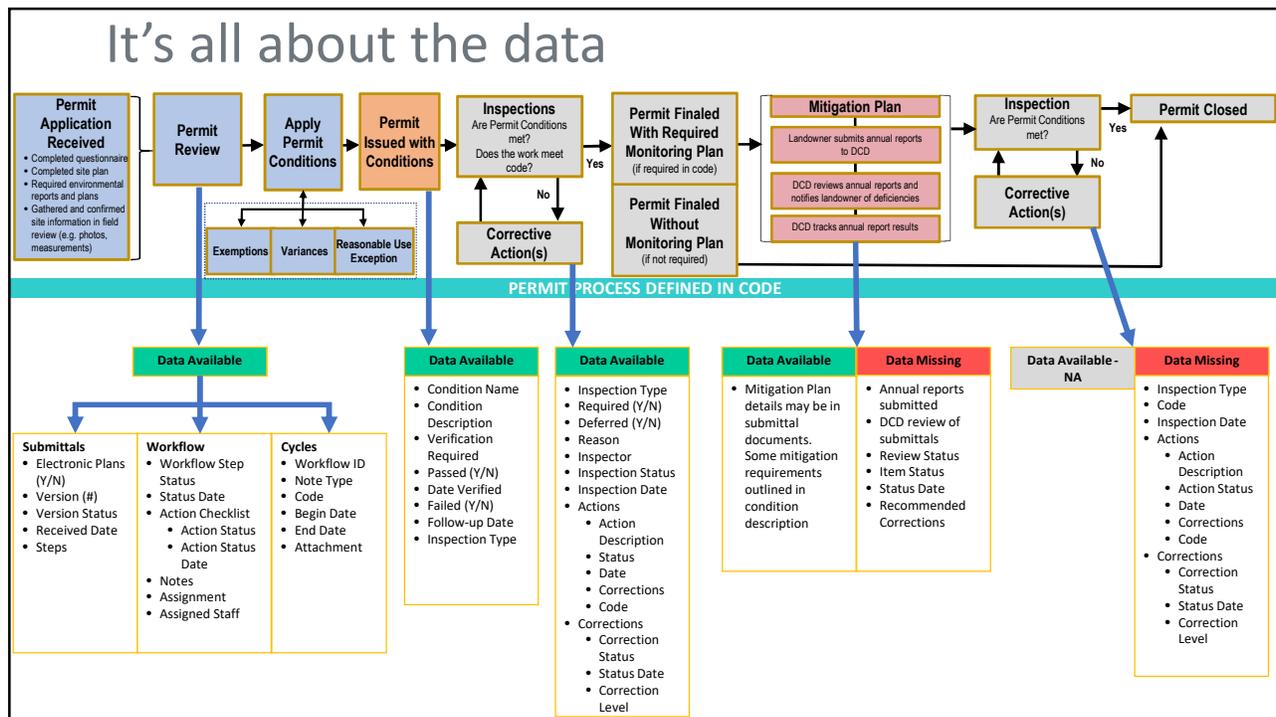




## Where are we?

### Best Practices:

- Cross-train review staff and inspectors
- Revise site plan requirements
- Checklist in permit system for BMPs
- Checklist in permit system for critical area presence
- Make certain elements required in permit system



## Where are we?

### Best Practices:

- Cross-train review staff and inspectors
- Revise site plan requirements
- Checklist in permit system for BMPs
- Checklist in permit system for critical area presence
- Make certain elements required in permit system
- Establish process for 5-year monitoring plans
- Use critical area reports (e.g., wetland, geotech) to update GIS

## Landowner Decision Support

### Improved landowner development decisions to protect critical areas and manage stormwater

- Good for landowners
- Good for the environment
- Good for the County

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**It's only a matter of time**



**Erosion control?  
What's erosion control?**



Let's just run the sewage into the yard



Just dump the water onto the neighbor's yard



Scott Anna Katharine Meg  
Shawn Kathlene Jeff Kim  
Peggy Steve

Robert

Jenifer  
wasn't  
here  
today

Bill

Candy

Clara



## Defining the Problem

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- Most SFR applicants start their process long before they apply for a permit
  - Focused on home design, buying a lot, well, septic design
  - Don't know that a site development permit is needed
  - Perception that getting a permit is *pro forma* OR,
  - Perception that the permit is a hurdle
- Many applicants un-knowingly make bad decisions early-on
- Attempts by permit staff to reduce negative impacts are often resisted by applicants and are viewed as barriers

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## What do customers say?

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#1

**Only 17% of SFR customers visited DCD first during project planning**

#2

**89% of SFR customers purchased their property before contacting DCD**

#3

**56% of SFR customers choose to manage their project instead of hiring a professional**

#4

**Customers self-described as "very familiar" with critical areas and stormwater, but... experienced difficulty applying development requirements**

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## Moving Toward Solutions

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- Applicant-staff consultations early in the design process:
  - Reduce conflict
  - Protect resources and critical areas
  - Improve site design
  - Reduce review time and questions
- Must reach applicants early – The pre-app isn't early enough
- Social marketing approach (i.e., how people do things)
- Help people make good decisions
- **Approach the problem from the customer's perspective**

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## Where are we?

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### Best Practices:

- “Start Here” approach
- Coordinate with Health District
- Revise site plan requirements
- Promote feasibility meetings with staff
- Landowner webinars and workshops
- Coordinate with real estate industry

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# Q&A

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# Thank you!



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