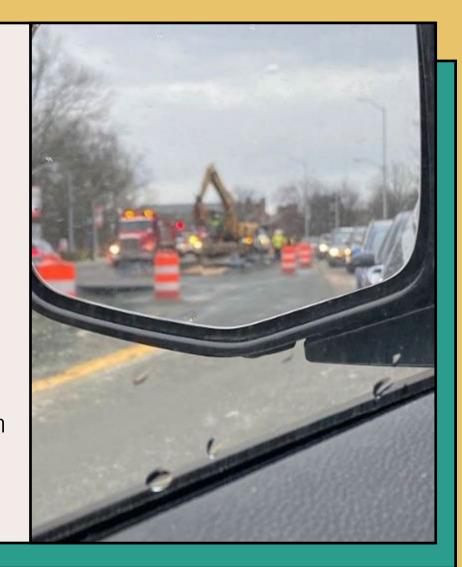
Stormwater Updates

Rachel Urban and Greg Schaner EPA HQ/Water Permits Division/Stormwater Permits Team



Meet our team

Stormwater Nerds



Rachel Urban Team Lead



Greg Schaner
Everything Stormwater



Chris Clipper
Construction Stormwater



Alicia Denning
Industrial Stormwater

Meet our team



Heather Goss
Transportation Liaison



Jenelle Hill
Emerging Contaminants,
Environmental Justice



Heather Huddle
Municipal Stormwater,
Integrated Planning, Climate



Lindsay Skovira RDA, Municipal Stormwater

Agenda



Focus Overview

- ✓ Foster communication and elevate the importance of good stormwater management
- ✓ Elevate how individual and group actions make a difference
- ✓ Focus on long-term solutions
- ✓ Identify new challenges and share solutions



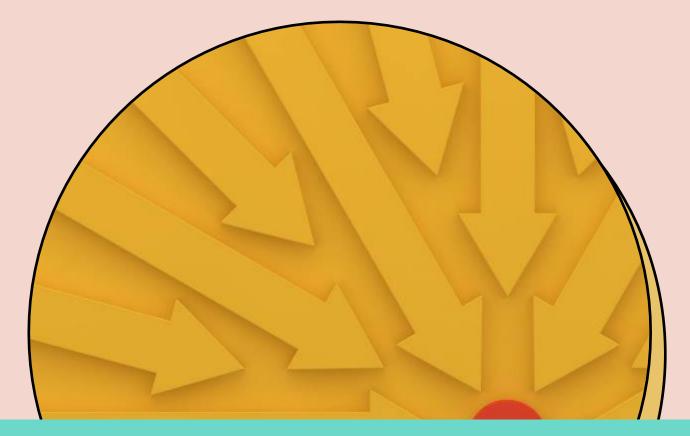


Where stormwater flows, everything goes.

EPA's Stormwater Smart



Primary goals



Stormwater is not a primary source of waterbody impairment

Stormwater

Smart

A collection of communication tools to promote the value of sound stormwater management for creating a community where your residents want to live and work.

- ✓ Can be used to support public education and outreach efforts
- ✓ Materials available in English and Spanish
- ✓ Materials are customizable
- ✓ Includes How-to Manual describing how to use the tools in ways that connect with residents and businesses



How we gethere: Stormwater is Valued

Increase Awareness

Brochures

Stormwater flow infographic

Social media graphics on:

- Car washing
- Oil and grease
- Cigarettes
- Pet waste
- Lawn chemicals
- Garbage

Promote Practices

Brochures

Stormwater steps infographic

Social media graphics

Stormwater tip sheets for businesses

Stormwater tip sheets for residents

Promote Investment

Brochures

Stormwater innovations infographic

Social media graphics

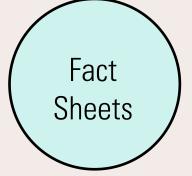
Presentation for municipal officials

Case studies

Integrated Planning











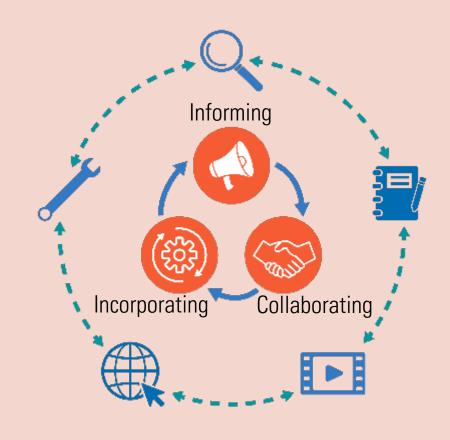
More to come in Session 5

10 — EPA Updates — 2024

Integrated Planning (Cont'd)



The Integrated Planning in Action Permitting Authority Toolkit includes three modules, each designed to help the permitting authority promote and support integrated planning for permittees



11 — EPA Updates — 2024

State Toolkit Modules

Module 1: Informing

- Get informed about integrated planning
- Start to organize within your agency, select a champion and workgroup who will focus on integrated planning
- Strategize mutual goals and which permittees would be the best fit
- Review success stories from other states and permittees

Module 2: Collaborating

- Initiate discussions with the permittee regarding shared goals
- Support the permittee throughout the plan development by providing tools and resources
- Encouragement for permittees to engage stakeholders
- Promote the consideration of resilience for all water infrastructure

Module 3: Incorporating

- Provides a process and considerations to help permitting authorities review and incorporate submitted integrated plans into permits
- Includes example permit language for incorporating Integrated Planning into permits
- Includes a workbook that permitting authorities can use to coordinate activities and review integrated plans



Integrated Planning: Long-Term Stormwater Planning



Applies the integrated planning approach specifically to stormwater assets, concepts, and resources.





Integrated Planning: Long-Term Stormwater Planning

Long-Term Stormwater Planning: A Voluntary Guide for Communities



Part of the Suite of Integrated Planning Resources



EPA Updates



Integrated Planning: Long-Term Stormwater Planning

Explore the pages below to learn more about long-term stormwater planning.



About

The benefits of integrated planning/long-term stormwater planning, approach, and materials to get started.

Start



Common Topics

Asset management, funding, engagement, infrastructure, development policies, and roadway projects.

Learn



Community Pilot Projects

Four communities pursue long-term stormwater planning.

Explore

Community Pilots

Topics Covered

- 1 Asset management
- 2 Stormwater infrastructure opportunities
- 3 Stakeholder involvement
- 4 Financing/funding
- 5 Development and redevelopment policies











Data-Driven

Focuses on data-driven actions, procedures, and metrics



Proactive

Takes a proactive approach to managing stormwater infrastructure

Asset Management



Leverages Resources

Needs are better tracked to ensure adequate operation and maintenance



Identify and Address Issues Faster

Keeps better track of expected pollutant reductions and other relevant data



Accountability

Provides accountability for taxpayers to see improvements

Contaminants of Emerging Concern

Stormwater dischargers may:

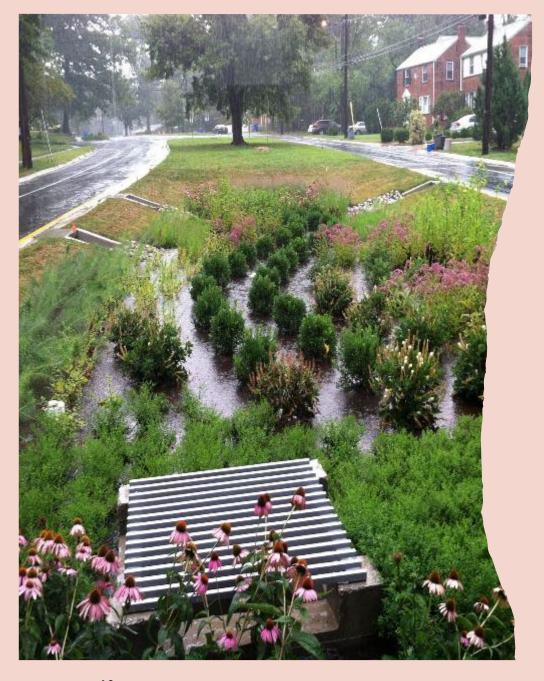
- Manufacture substances that are considered contaminants of emerging concern
- Use products or materials that contain contaminants of emerging concern or substances that break down to become contaminants of emerging concern; or
- Manage stormwater from areas where products or materials containing contaminants of emerging concern or substances that break down into contaminants of emerging concern are used or stored

Per- and Polyfluoroalkyl Substances (PFAS) Polycyclic Aromatic Hydrocarbons (PAHs) Microplastics 6PPD and 6PPD-quinone Pharmaceuticals and Personal Care Products (PPCPs

https://www.epa.gov/npdes/stormwater-pollutants-emerging-concern

More to come in Session 12

18 — EPA Updates — 2



Contaminants of Emerging Concern (Cont'd)

Green Infrastructure for 6PPD-quinone

- Green infrastructure (like rain gardens and bioswales) is one potential mitigation option for toxicity from 6PPD-quinone
- By strategically placing bioinfiltration across the landscape, we may also address many other contaminants that comprise stormwater pollution
- EPA is supporting strategies for bioinfiltration to mitigate stormwater pollution, where appropriate
 - The Bipartisan Infrastructure Law (BIL) appropriates \$1 billion over 5 years to the Clean Water State Revolving Fund (CWSRF) specifically to address emerging contaminants, including 6PPD-quinone
 - BIL appropriates an additional \$965 million over 5 years to address tribal water and wastewater infrastructure needs and respond to challenges. This includes \$20 million to address emerging contaminants, including 6PPD-quinone



Contaminants of Emerging Concern (Cont'd)

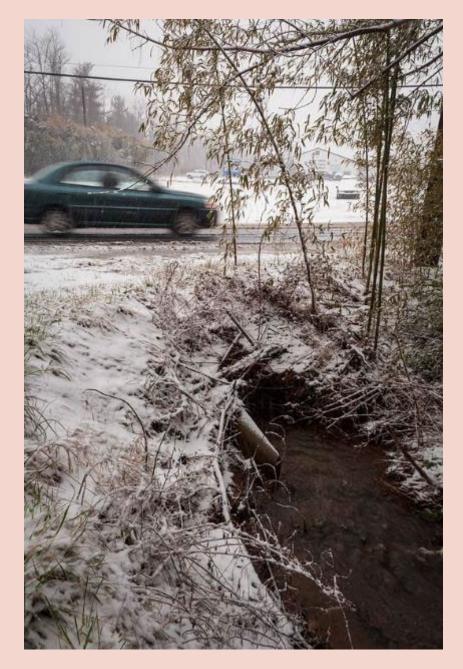
EPA Tools for 6PPD-quinone

Analytical methods: EPA published a draft 6PPD-quinone analytical method for surface water/stormwater (EPA Method 1634) in January, 2024

Screening values: EPA published screening values for 6PPD-q and 6PPD to protect sensitive salmon and other aquatic life in June 2024

Convenings:

- EPA Region 10 convenes state, tribal, federal 6PPD-quinone methods development roundtables to share progress across agencies each month
- EPA HQ convenes stormwater staff from west coast states' DEPs and DOTs for quarterly updates and peer sharing on work related to managing 6PPD-quinone in MS4s



Contaminants of Emerging Concern (Cont'd)

Planned EPA and EPA-Funded Research Relevant to 6PPD-quinone in Stormwater

Office of Research and Development, FY23-26

- The fate, transport, and treatment of tire-derived pollutants in stormwater
- Remediation of tire-related pollutants in stormwater
- Development of metrics, models, and monitoring techniques to determine optimal green infrastructure placement and size for urban stormwater control for Municipal Separate Storm Sewer Systems (MS4) and combined sewer communities
- Other projects relevant to 6PPD-q
 - Urban green infrastructure design and assessment resource to promote public health, climate, and equity benefits for air quality and other ecosystem services
 - Designing and implementing green infrastructure for communities with environmental justice concerns to mitigate air pollution, health, and climate impacts

EPA Puget Sound Geographic Program Stormwater Strategic Initiative projects

21 <u>— EPA Updates</u> 2024

EPA Funding Programs Support Stormwater Infrastructure and Planning

Technical Assistance

EPA WaterTA Programs

TA providers (funded by EPA grants)

External TA Program Partnerships

Funding

Clean Water State Revolving Funds (CWSRF)

Sewer Overflow and Stormwater Reuse Municipal Grants (OSG)

Water Infrastructure Finance and Innovation Act (WIFIA)

Clean Water Indian Set Aside (CWISA)



Water Finance Clearinghouse

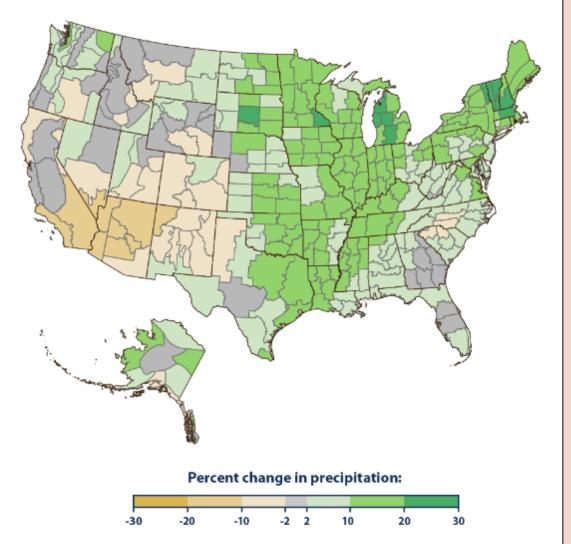
Quickly filter for **stormwater** and **green infrastructure** resources using the bottom navigation bar

Also search and filter for stormwater-related:

- funding opportunities
- case studies
- webinars and videos
- learning modules
- and more



Change in Precipitation in the United States, 1901–2023



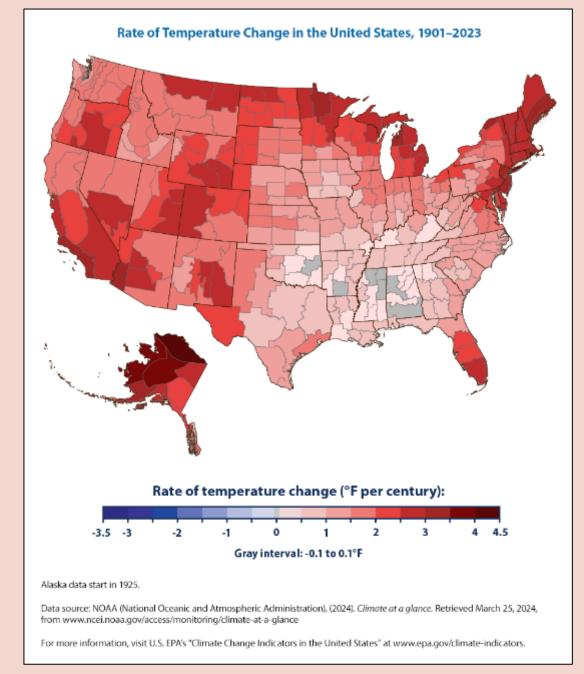
Alaska data start in 1925.

Data source: NOAA (National Oceanic and Atmospheric Administration). (2024). Climate at a glance. Retrieved March 25, 2024, from www.ncei.noaa.gov/access/monitoring/climate-at-a-glance

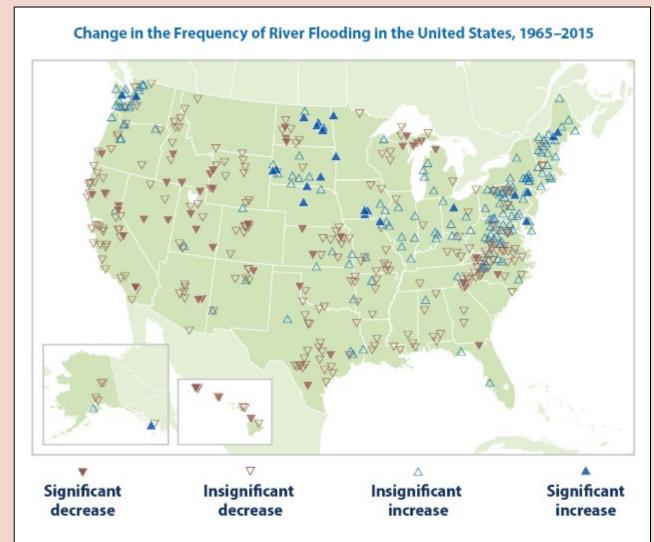
For more information, visit U.S. EPA's "Climate Change Indicators in the United States" at www.epa.gov/climate-indicators.

Resiliency and Climate Change

More to come in Session 5



Resiliency and Climate Change (Cont'd)



Data source: Slater, L., and G. Villarini. 2016 update and expansion to data originally published in: Mallakpour, I., G. Villarini. 2015. The changing nature of flooding across the central United States. Nature Climate Change 5:250–254.

For more information, visit U.S. EPA's "Climate Change Indicators in the United States" at www.epa.gov/climate-indicators.

Technological Advances/Innovations

Real-time control systems

Sensors

Unmanned Aerial Vehicles or Drones

Artifical Intelligence Machine Learning



26 — EPA Updates — 2024



EPA MSGP Reissuance

2026 MSGP

- EPA is in the process of reissuing the Multi-Sector General Permit (MSGP) for stormwater discharges from industrial activities
 - The current MSGP expires in February 2026
- Potential modifications:
 - Clarifications to improve readability and improve compliance
 - Updates to select monitoring requirements
- Next steps:
 - Draft permit is in internal review
 - Target for proposal is December 2024
 - Target for final permit issuance is end of 2025

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National Pollutant Discharge Elimination System (NPDES) Construction General Permit (CGP) for Stormwater Discharges from Construction Activities

In compliance with the provisions of the Clean Water Act, 33 U.S.C. § 1251 et. seq., (hereafter CWA), as amended by the Water Quality Act of 1987, P.L. 100-4, "operators" of construction activities (defined in Appendix A) that meet the requirements of Part 1.1 of this National Pollutant Discharge Elimination System (NPDES) Construction General Permit (CGP), are authorized to discharge pollutants in accordance with the effluent limitations and conditions set forth herein. Permit coverage is required from the "commencement of construction activities" (see Appendix A) until one of the conditions for terminating CGP coverage has been met (see

This permit becomes effective on 12:00 am, February 17, 2022.

This permit and the authorization to discharge expire at 11:59pm, February 16, 2027.

Signed and issued this 18 day of January 2022

DEBORAH DEBORAH SZARO SZARO

Dete: 2022.01.18 08:31:14 -06'00'

Acting Regional Administrator, EPA Region 1.

Signed and issued this 18 day of January 2022

JAVIER LAUREANO Duto: 2022.01.18

Javier Laureano.

Director, Water Division, EPA Region 2.

Signed and issued this 18 day of January 2022

Digitally signed by CARMEN QUERRETRO PEREZ Date: 2022.01.16.10.19.61 -0400F CARMEN

Carmen Guerrero-Perez.

Director, Caribbean Environmental Protection Division, EPA Region 2.

Signed and issued this 18 day of January 2022

CATHERINE CATHERINE LIBERTZ

Catherine A. Libertz, Director, Water Division, EPA Region 3.

Signed and issued this 18 day of January 2022

JEANEANNE Digitally signed by JEANEANNE GETTLE GETTLE Debt 2022.01.18

Jeaneanne Gettle.

Director, Water Division, EPA Region 4.

Signed and issued this 18 day of January 2022

Digitally signed by TERA

Signed and issued this 18 day of January 2022

CHARLES STATES MAGUIRE / TOWN THE PARTY OF THE

Charles W. Maquire.

Director, Water Division, EPA Region 6.

Signed and issued this 18 day of January 2022

JEFFERY Digitally signed by JEFFERY ROBICHAUD ROBICHAUD Date: 2022.01.18

Jeffery Robichaud.

Director, Water Division, EPA Region 7.

Signed and issued this 18 day of January 2022

Digitally signed by DARCY OCONNOR OCONNOR Date: 2022.01.18

Darcy O'Connor.

Director, Water Division, EPA Region 8.

Signed and issued this 18 day of January 2022

TOMAS Date: 2022.01.18 TORRES

Director, Water Division, EPA Region 9.

Signed and issued this 18 day of January 2022

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Daniel D. Opalski,

Director, Water Division, EPA Region 10.

EPA CGP Modification

EPA CGP Modification

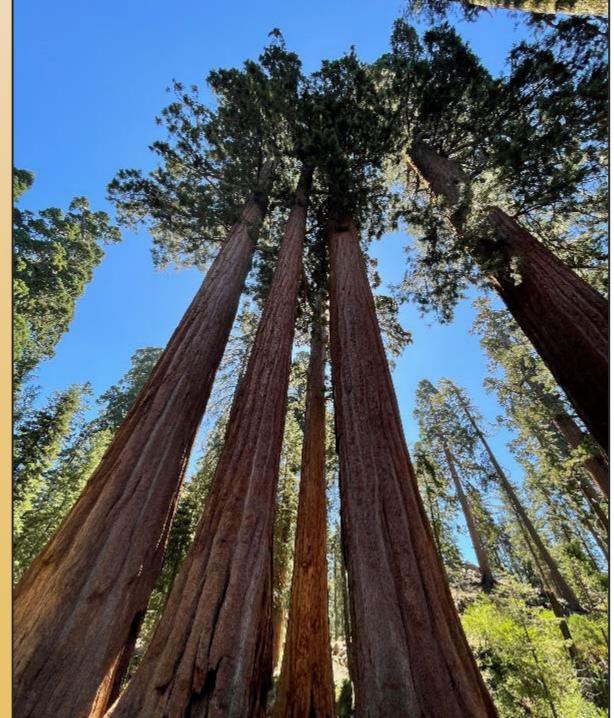
- What: EPA will be proposing a narrow modification to its 2022 CGP
- Purpose of modification: To expand the areas eligible for CGP coverage to include all "Land of Exclusive Federal Jurisdiction" or "LEFJ"
- Why: The proposed modification would correct the error in the 2022 CGP in not including coverage for LEFJs when first issued
- Schedule:
 - Proposal in Nov./Dec. 2024
 - Final in March 2025

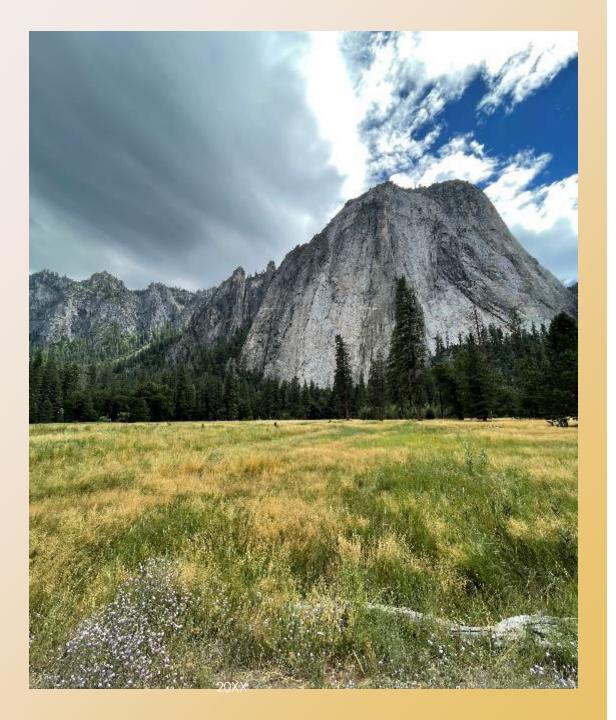
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Presentation titl

LEFJ Background

- LEFJs include lands in the U.S. where the federal government retains exclusive federal jurisdiction (in relative respects).
- Exclusive federal jurisdiction is established only under limited circumstances pursuant to the Enclave Clause of the U.S. Constitution, art. 1, section 8, clause 17)
 - 1. Where the federal government purchase land with state consent to jurisdiction;
 - 2. Where a state chooses to cede jurisdiction to the federal government; and
 - 3. Where the federal government reserved jurisdiction upon granting statehood.

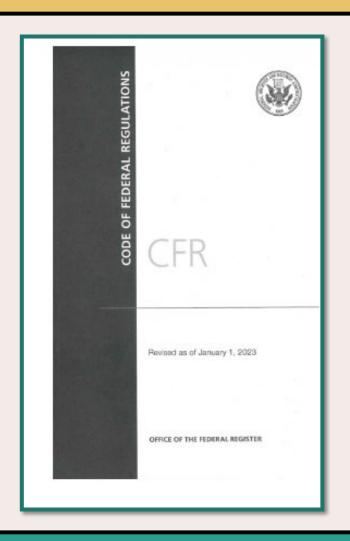




Location of LEFJs

- Responsibility for maintaining list of LEFJ locations rests with individual federal departments
- EPA does not maintain a comprehensive list or map of LEFJ locations
- Examples of LEFJs include certain national parks, such as Denali, Mount Rainier, Yellowstone, Yosemite, Acadia.

Possible
Upcoming
Regulatory
Actions



NPDES Market-Based Approaches

 Proposed rule would clarify CWA authority for use of market-based approaches, such as trading and off-site stormwater management, to meet water qualitybased permit requirements

Schedule: Interagency review to be initiated potentially late 2024

Minor Corrections to NPDES Regs

- Planned direct final rule would address:
 - Typos
 - Obsolete citations
 - Inadvertent deletions
 - Other non-controversial updates (e.g., removing "Trust Territories" from "State" definition)
- Stormwater examples:
 - Correcting citations related to permit MS4 application deadlines (in §122.26(e)(9)) and small MS4 reporting requirements (§122.35(h)(2)(vi))
- Schedule: Publish potentially end of 2024



Future Focus

I need the most help to address...

I am getting stuck on...

I don't know practices or controls to reduce/eliminate...

Thank you

Greg Schaner

Rachel Urban

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urban.rachel@epa.gov

