

How the Clean Water Act Works (and Doesn't Work)

Assistant Professor Robin M. Rotman, JD

Environmental Law Institute – 2022 Summer School The Basics of the Clean Water Act Program – June 16, 2022

It's Nice to Meet You



Alumna of ELI's Emerging Leaders Initiative

- Free access to many ELI programs
- Mentorship
- Networking opportunities with peers and prominent environmental law experts
- Professional development opportunities

Outline of Presentation

- History of water quality regulation in the United States
- Clean Water Act 101
- Current issues

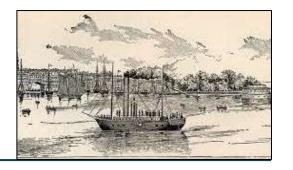
 Questions, comments, and discussion are welcome during the Q&A period

History of Water Quality Regulation in the United States

The U.S. Constitution



Navigability and the Commerce Clause



- Gibbons v. Ogden, 22 U.S. 1 (1824): Because "goods and services in interstate commerce are transported or performed by vessel," only Congress can "regulate waterbodies where vessels may travel."
- Gilman v. City of Philadelphia, 70 U.S. 713 (1865): "Congress has powers to keep [navigable waters] open and free from any obstruction to their navigation."
- Daniel Ball, 77 U.S. 557 (1871): "The rivers that must be regarded as navigable rivers in law are those which are navigable-in-fact in their ordinary condition...using customary modes of travel on water."

Early Legislation

- The Rivers and Harbors Act of 1899
 - Made it illegal to dump refuse into navigable waters without a permit from U.S. Army Corps of Engineers
- Federal Water Pollution Control Act of 1948
 - Empowered U.S. Surgeon General to investigate and seek to enjoin interstate water pollution – but only with consent of state where pollution originated
- Water Quality Act of 1965
 - Required states to identify intended uses of navigable waters within their borders and set corresponding water quality standards

The Summer of '69...

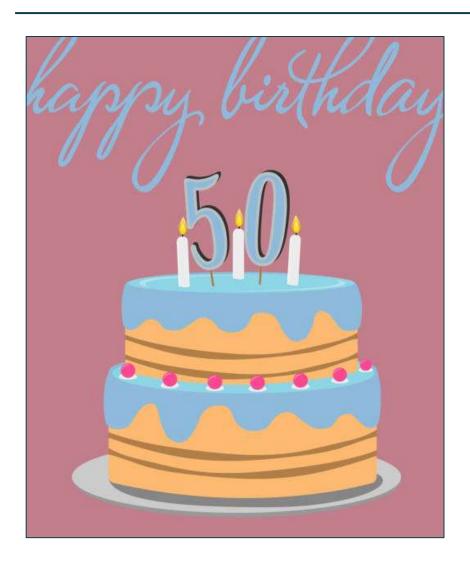






Clean Water Act 101

The Clean Water Act of 1972



- Make all navigable waters safe for swimming and fishing
- Eliminate all pollution discharges to navigable waters by 1985 (!)

Federal Agencies Involved

- U.S. Environmental Protection Agency
- U.S. Army Corps of Engineers

Two Key Functions

- Protect ambient water quality
- Provide grants and low-interest loans to municipal wastewater utilities

- Distinguish from Safe Drinking Water Act
 - Set minimum standards for water that comes out of the tap of public water systems (not private wells)
 - Regulate subsurface injections to protect groundwater quality
 - Provide grants and low-interest loans to municipal drinking water utilities

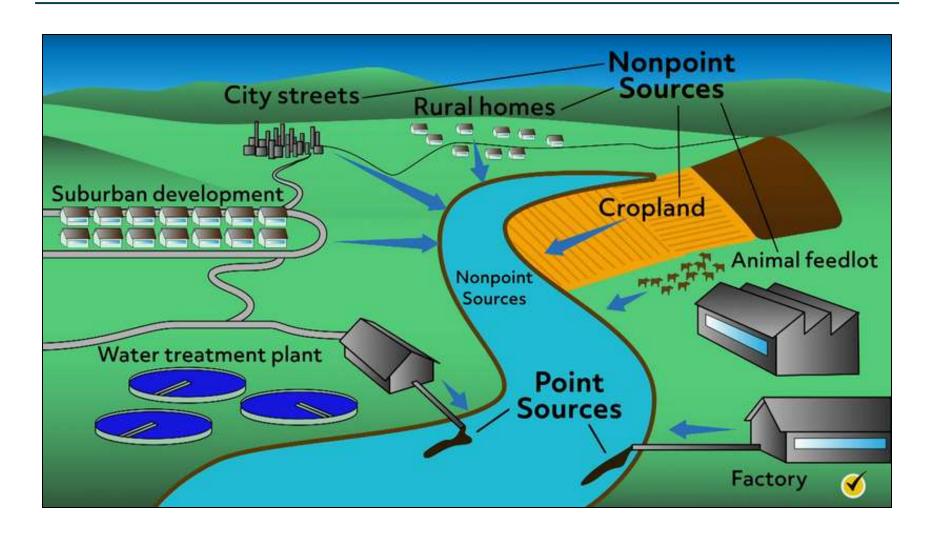
CWA Approach to Protecting Ambient Water Quality

- Step 1: Determine "Designated Uses" for all navigable waterbodies
- Step 2: Set "Water Quality Criteria" to meet those Designated Uses
- Step 3: Control pollution through "Anti-Degradation Measures" such as permitting and Enforcement

CWA Cooperative Federalism

- Federal, state, and tribal governments work together
- States can apply for "Delegated Authority" to implement one or more of the steps
- Tribes can apply for "Treatment as State Status" to implement one or more of the steps
- State or tribal Water Quality Criteria must be at least as strict as the federal minimum criteria specified by EPA

Point v. Nonpoint Source Pollution



Point Source Controls

- CWA § 402
- National Pollution Discharge Elimination System (NPDES) permit required for point source discharge to navigable water
 - For industrial polluters, numerical limitations for pollutants
 - For municipal waste water treatment plants, level of treatment technology required (primary, secondary, or tertiary)
- Quite effective at controlling point source pollution

Nonpoint Source [Sort of] Controls

- Biggest threat to water quality in U.S. today
- CWA § 208: Areawide Waste Treatment Management Plan
 - Defunded in 1980s; not relevant today
- CWA § 303(d): Total Maximum Daily Load Plan
 - For "Impaired Waterbodies" = consistently fail to meet water quality standards
 - Holistic look at all sources of pollution, point and nonpoint
 - Point: strict NPDES requirements
 - Nonpoint: focus on voluntary landowner adoption of Best Management Practices to reduce run-off

Nonpoint Source [Sort of] Controls

- CWA § 319: Nonpoint Source Management Programs
 - Gives grants to states that make and implement plans for controlling nonpoint source pollution
 - States can choose whether to take a regulatory or voluntary approach
- CWA approach to controlling nonpoint source pollution relies on voluntary actions and has not been very effective
 - Industry influence
 - Harder problem to solve

Dredge and Fill Permitting

- CWA § 404: permit from U.S. Army Corps of Engineers required for discharge of dredged or fill materials into navigable waters
- Applicant must mitigate impacts, or where impacts cannot be avoided, do compensatory mitigation

Current Issues

Recent Litigation and Rulemaking

- What is a "navigable water"?
- What is a "point source"? (And should it really matter?)

What Is a "Navigable Water"?

- Better scientific understanding of hydrological systems > U.S. Supreme Court has increasingly broadened its interpretation of "navigable water"
- Navigation is not the only touchstone of interstate commerce
- Unending litigation creates uncertainty for EPA/ACE, state agencies, developers, farmers, engineers, environmental advocates, and so forth
- Need for a durable regulatory definition based on current science

What Is a "Point Source"?

- County of Maui, Hawaii v. Hawaii Wildlife Fund, 140 S. Ct. 1462 (2020): When a nonpoint discharge is the "functional equivalent" of a point source discharge, it must be regulated as a point source under CWA § 402
- What is a "functional equivalent"?
- Why does this matter so much? Should it matter at all?

Contact Information

Robin Rotman, JD University of Missouri rotmanr@missouri.edu 573-882-5693