Resource Injury and NRDA

Local Gov't Training 2014

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Goals

- Not...
 - How to Investigate Pollution Incidents
- Instead...
 - How Natural Resource Damage Assessment (NRDA) can augment pollution cases

Overview

- What is Natural Resource Damage Assessment (NRDA)?
- Methodology
- "Large Spills"
- Questions and Answers

Potential Components of a Pollution Settlement

FINES, PENALTIES

COST RECOVERY (Response & NRDA)

NATURAL RESOURCE DAMAGES

THIRD PARTY CLAIMS

What are Natural Resource Damages?

- Compensation for natural resource injuries
- "Injuries" versus "Damages"

 Damages based upon amount of restoration needed to "make the environment and public whole" (OPA 90 Rule, CERCLA)

NRDA Myths?

- NRDA is a black box of smoke and mirrors and there is no standard method for calculating damages
- Natural resource damages are usually much larger than response costs
- NRDA is punitive
- Trustees are only interested in "cash out" settlements
- Settlement money goes into the general fund

A Good NRDA Case?

Cause of action (legal basis)

Evidence of injury

Ability to collect damages

Scope of the incident (to a lesser extent)

Typical NRDA Cases Large Small



Examples of resources affected: birds, habitat, fish, recreational uses, tribal uses

NRDA Stats (2013)

Large Cases: 26

- Settled: 25 (Total = \$203 million)
- Active: 1 (Leviathan Mine)

• Small Cases: 183

- Settled: 102 (Total = \$6.7 million)
- Terminated: 25
- Active: 56

• Restoration Projects: 347

- Completed: 218
- On-going: 58
- Planned: 71





Natural Resource Damage Assessment: Methodology



Data Collection and Injury Determination

- Central Questions
 - What was injured?
 - How much? (# animals, # of acres)
 - How badly?
 - For how long?
 - Use Reports & Study Data



Data Collection and Injury Determination

- Later activities: "Putting it all together"
 - Modeling
 - Subsequent NRDA studies



SETTLEMENT

RESTORATION

Restoration Scaling/Damage Quantification

Acre-Years of Loss Due to Spill Acre-Years Gained from Restoration Project



Damage Quantification for Human Rec Uses

- Human Recreational Uses
 - Beach Activities
 - Fishing
 - Wildlife Viewing
 - Tribal Uses
- Use surveys, car counters, input from land managers
- Damages for Use Losses

 Value of Lost and Diminished User-Days



Methodology: Summary

- Standardized method that uses degree and spatial/temporal extent of injuries to calculate damages
- Often uses information gathered during response and investigation, but additional field work may be needed
- Bottom Line: Damage Assessment "studies the spill"

"Large Spills"



Characteristics of a "Large Spill"

- Multiple Trustees (e.g. USFWS, NOAA, NPS, State Parks, State Lands, tribes)
- Cooperative assessment with RP
- Staff from multiple agencies, RP, and contractors involved in NRDA present during spill response





Coordination during Response



NRDA Coordination After Response

- NRDA tasks done cooperatively among trustees and possibly RP
- NRD settlement coordinated with fines and penalties from multiple agencies for a global settlement
- NRD settlement is restoration projectbased (maybe be "cash-out" or RPimplemented projects)

Trustee Councils

- Oversee restoration from large spill settlements
 - Multiple restoration projects for different species and habitats impacted
- One lead representative from each trustee agency involved in NRDA
- Coordinate input from public and other agencies
- Restoration Plan with public comment

Restoration Project Examples

- Devil's Slide Common Murre Colony Restoration
- Wetland Enhancement and Pt. Edith Wildlife Area (Contra Costa County)
- Wetland Enhancement at McNabney Marsh (Contra Costa County)
- Pacific Herring Spawning Habitat Enhancement in San Francisco Bay
- Steelhead Stream Habitat Enhancement at San Francisquito Creek

Over \$110 Million in Restoration Funds Collected So Far

Large Spill Example: M/V Stuyvesant

- Marine spill in and around Humboldt Bay in 1999
- Dredging Vessel
- While only ~2000 gallons of bunker fuel released...
 - 1,251 birds collected dead and dying (including several threatened and endangered species)
 - Beach searches spanned 20 days and covered 100 miles of coastline
 - Local, State, and Federal agencies responded
 - Public outcry

Stuyvesant NRDA

 Trustee Agencies worked with the RP in a cooperative assessment

 Case settled in July 2006; NRDA portion \$6.71 M

• Final DARP June 2007 (8 years post spill)

Stuyvesant Restoration Plan



Summary: "Large Spill" NRDA

- Coordination challenges during response
- Extensive data collection
- Long time between spill and settlement
- Large settlements (usually)

Not the typical spill

Summary

- NRDA Process
- General Methodology
- Process and Challenges in Large Spills
- The Goal is Restoration!

Contacts

OSPR NRDA

- Primary Contact, Supervisor
 - Michael Anderson
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- Toxicology and Field Sampling
 - Beckye Stanton
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- Economics, Birds, and Recreational Use
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OSPR Legal



http://www.dfg.ca.gov/ospr/NRDA/

Any Questions?