

June
2024

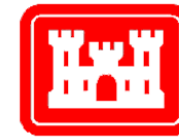
Rapid Response Cache Concept & Pilot

Columbia River Basin Meeting

2020 MOU



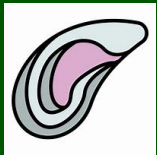
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RECLAMATION



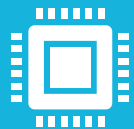
US Army Corps
of Engineers®



Support Rapid Response Actions for invasive Zebra and Ouagga Mussels in Western Waters of the United States



“...enhance the capacity of Federal, State, and Tribal agencies to rapidly respond to new infestations of Dreissenid mussels (zebra mussels and quagga mussels) in western waters.”



“Coordinating the Federal sector's role in supporting the creation and maintenance of equipment caches for rapid response actions.”

Annual Federal Points of Contact & Resource List

Federal Agency Potential Resources for Rapid Response to Zebra/Quagga Mussels in Western Waters *as appropriate and pending availability, as of May 2024									
This list was developed to advance the Federal Interagency Memorandum of Understanding to Support Rapid Response Actions for Invasive Zebra and Quagga Mussels in Western Waters of the United States by identifying Federal resources that could be shared to support rapid response actions. Additional resources may be available. The list will be reviewed and updated annually as needed. If you have questions about this list, please contact Hilary Smith, Senior Advisor for Invasive Species, U.S. Department of the Interior, hilary_smith@ios.doi.gov.									
Agency	Resources that may be available	Resource description, including any conditions or limitations	Is the resource limited to a specific geography?	Contact responsible for coordinating resource deployment					
				First Name	Last Name	Title	Address	Email	Phone
BIA	Funding	BIA can provide funding to Tribes and Tribal organizations for rapid response.	Funding must benefit Tribal resources	David	Wooten	Chief, Branch of Fisheries, Wildlife, and Recreation	1001 Indian School Road, NW, Suite 343-B Albuquerque, NM 87104	david.wooten@bia.gov	202-321-8314
BLM	Funding	BLM can provide funding to support state efforts for containment on the Lower Colorado River.	AZ, CA, and southern NV in the Lower Colorado River Corridor	Codey	Carter	Aquatic Habitat Management Program Lead	One North Central Ave, Suite 800 Phoenix AZ 85004	cdcarter@blm.gov	602-417-9446
BLM	Decontamination Unit	BLM-AZ Lake Havasu Field Office has a mobile decontamination unit and team to support efforts on the Lower Colorado River.	AZ, CA, and Southern NV in the Lower Colorado River Corridor	Codey	Carter	Aquatic Habitat Management Program Lead	One North Central Ave, Suite 800 Phoenix AZ 85004	cdcarter@blm.gov	602-417-9446
NPS	Boats	NPS units with boatable waters, including western units with quagga / zebra management programs, have boats. Number, type, and size capacity vary from park to park. Park boats would be available to response actions within park waters. Availability outside park boundaries would be subject to request and Superintendent approval.	Nationwide	John	Wullschlegler	NPS Fish / Aquatic Invasive Species Lead	1201 Oakridge Drive, Suite 250 Fort Collins, CO 80525	john_wullschlegler@nps.gov	970-225-3572
NPS	Staff Time	NPS Fish / Aquatic Invasive Species lead available for coordination of rapid response activities. Regional points of contact may be available as needed for response within their region. Park staff available for rapid response in park waters. Availability outside of park boundaries subject to request and Superintendent approval.	Nationwide	John	Wullschlegler	NPS Fish / Aquatic Invasive Species Lead	1202 Oakridge Drive, Suite 250 Fort Collins, CO 80525	john_wullschlegler@nps.gov	970-225-3572
NPS	Decontamination Units	Parks with quagga / zebra mussel management programs have decontamination units. Number, type, and capability is variable. This equipment would be available for rapid response actions within a park. Availability for activities outside parks boundaries would be subject to request and Superintendent approval.	Western Parks with quagga / zebra mussel management programs	John	Wullschlegler	NPS Fish / Aquatic Invasive Species Lead	1203 Oakridge Drive, Suite 250 Fort Collins, CO 80525	john_wullschlegler@nps.gov	970-225-3572
NPS	Divers / Dive Teams	NPS has a national dive program with a focus on submerged cultural resources. A number parks also maintain dive programs which often focus on specific issues, resources or tasks (e.g., cultural / biological surveys, search and rescue). Divers would likely be available for rapid response actions within park waters. Availability outside of NPS areas or for work not within their scope of duties would be subject to request and Supervisor approval.	Nationwide	John	Wullschlegler	NPS Fish / Aquatic Invasive Species Lead	1204 Oakridge Drive, Suite 250 Fort Collins, CO 80525	john_wullschlegler@nps.gov	970-225-3572

2023 Federal Survey on Caches

For the purposes of this effort, an “equipment cache” refers to staging gear, equipment, and supplies in a location that could be accessed by that federal agency or shared with other agencies (federal, state, tribal governments) to support rapid response actions.



Resources that may be available



Use limitations for sharing



Geographic limitations for sharing



Contact responsible for storage, maintenance, and deployment



Exploring pilot now

Questions for a pilot to answer

How do we best share resources?

Is a cache useful?

What needs to be in a cache?

Others TBD



Conceptual Scope

Must be accessible

Must facilitate containment

Must facilitate treatment

Doesn't re-invent Rapid
Response guidelines



Geographic / Taxonomic Scope

MOU – Western States

Washington expressed interest

MOU – Mussels only

Other taxa if possible



Steps so far

WA Group (DFW, WISC, ACOE)

Preliminary cache list

Great Lakes input

DOI Mussel Team input



Next Steps

Refine Scope







Expand Planning Team

Refine Draft Strategy

Seek Input Today



Scoping Document Content

	Introduction	Conceptual/Geographic/Taxonomic Scope Planning Team
	Cache Information	Cache Characteristics Potential Cache Locations / Potential Users Cache Contents Cache use Timeline
	Agreement required contents	Managing a cache Funding Implementation Process
	Additional Items of Interest	Pesticide Shelf Life Pesticide Suppliers Agreements research
	Questions	Infestation size limit? Decontamination details How long can a cache be used for?
	Resources	Federal Capacity survey results Protocols

(Example) issues to resolve with the pilot

- How will the supplies be funded now and over time?
- Who owns the equipment?
- What are the liability implications?
- How to ensure everything stays clean and dry and functional?
- What are the license plate/registration/insurance requirements for a trailer?
- Where will the supplies be stored?

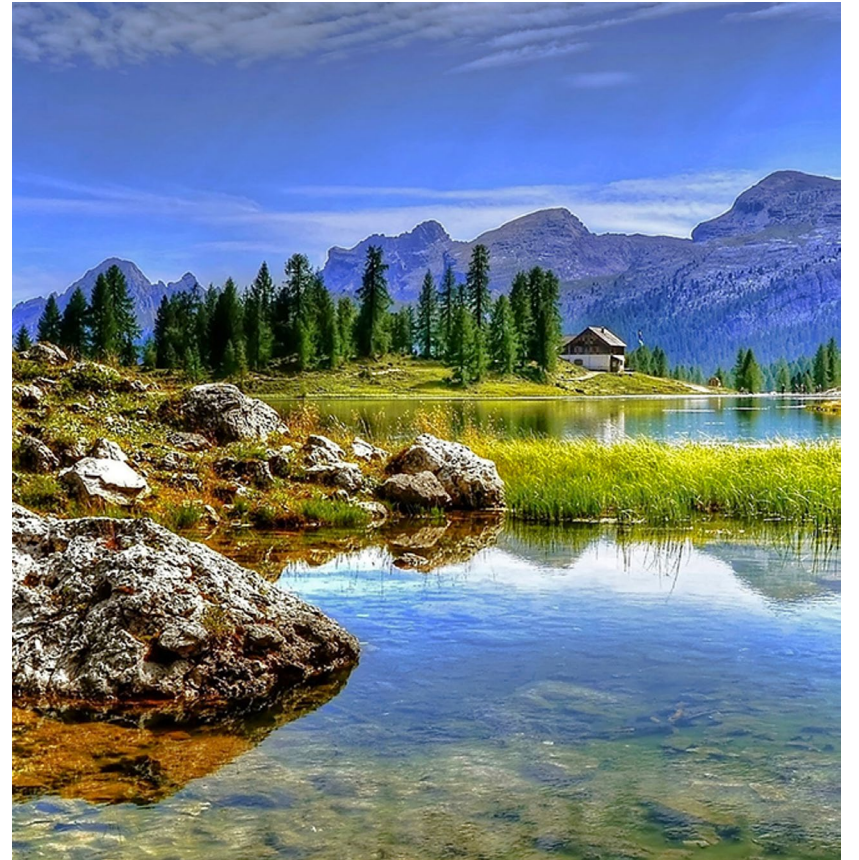


Discussion Questions

- Do you think a cache would be useful?
- What are other lessons learned from either actual or simulated response events to inform equipment caching?
- What criteria should be used to determine which resources are appropriate to include in a cache?
- Who else is interested in exploring equipment caching?

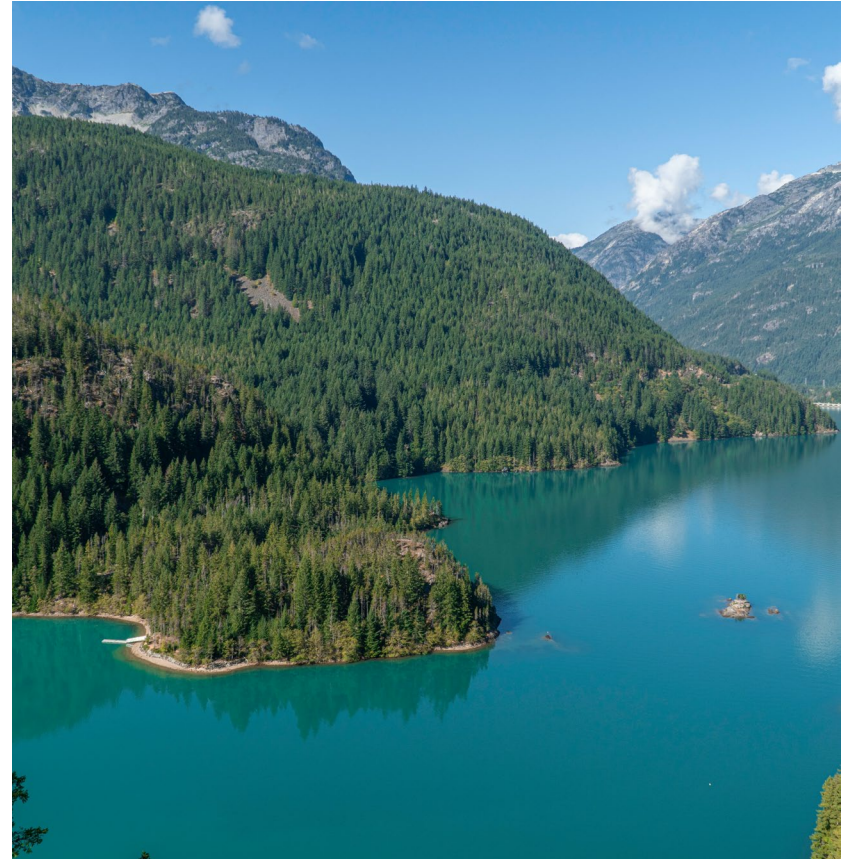
Discussion Question I

- Do you think a cache would be useful?
- If so, in what way (what would it be used for)?
- If not, why not?



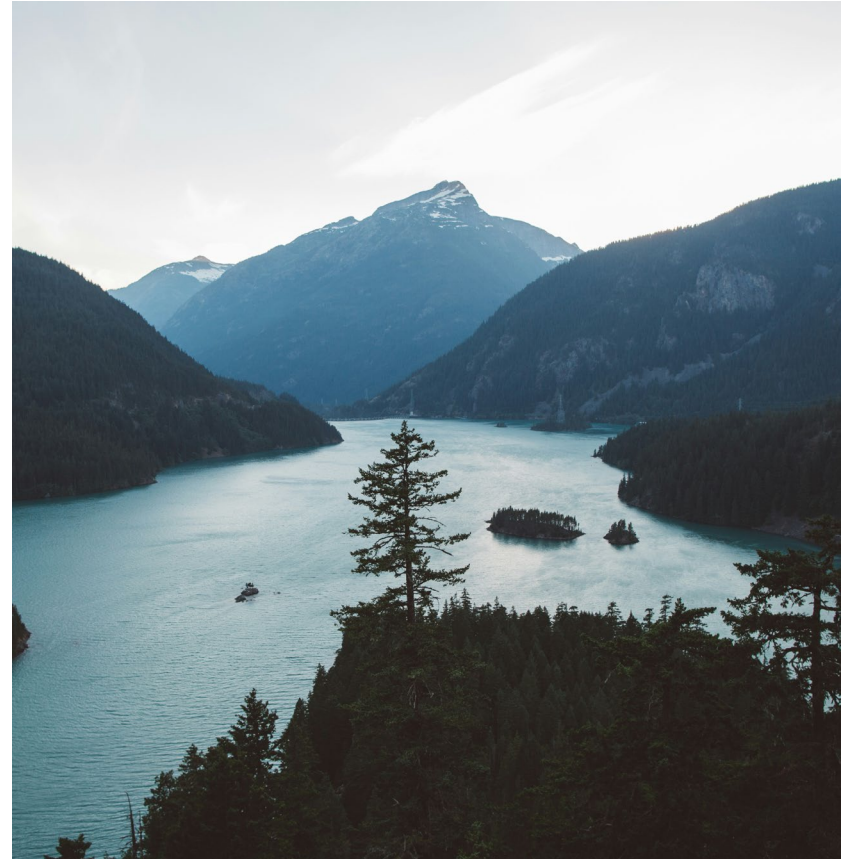
Discussion Question 2

- What are other lessons learned from either actual or simulated response events to inform equipment caching?



Discussion Question 3

- What criteria should be used to determine which resources are appropriate to include in a cache (e.g., longevity, ability to be used in multiple responses, multiple species?)?



Discussion Question 4

- Who else is interested in exploring equipment caching, in WA or otherwise?





Questions/Input?