IDAHO RAPID RESPONSE PLAN FOR EARLY DETECTION OF DREISSENID MUSSELS

(A supplement to the Columbia River Basin Rapid Response Plan)
Initially drafted 11/06/09
Updated 10/21/2015

Objective 1: Verify

Purpose: Confirm suspected identification of the Dreissenid species.

Lead entity: ISDA.

A waterbody will be identified as "Suspect" for Dreissenid mussels if:

- 1) Settled adult Dreissenid mussels are found and verified by two qualified experts **OR**
- 2) Dreissenid mussel veligers are found and confirmed utilizing **BOTH** of the following methods:
 - Microscopy identification of a sample from a qualified expert and concurrence from a second qualified expert: (EcoAnalysts, Bureau of Reclamation ("BOR"), Portland State University ("PSU") AND
 - PCR (genetic) identification of a sample by a qualified expert and concurrence from a second qualified expert: (Pieces Labs, BOR)

A waterbody will be considered "Positive" for Dreissenid mussels if specimens are verified through the above protocol during two separate sampling events.

Objective 2: Make Initial Notifications

Purpose: Ensure that all parties that have jurisdiction in response decisions are informed of a suspect or infested identification within 48 hours.

Lead entity: ISDA

Following a "Suspect" or "Positive" identification of Dreissenid mussels in the waters of Idaho, ISDA will conduct the following notifications. All communications outside the agency will be at the direction of the Directors Office:

- 1) Tier 1 Contacts:
 - ISDA Director
 - Governor's Office
 - ISDA Invasive Species Program and Management Staff
 - ISDA legal counsel/Office of the Attorney General

2) Tier 2 Contacts:

• Directly impacted entities (State agencies, Federal agencies, power companies, irrigation districts, etc)

3) Tier 3 Contacts:

- Legislators (House and Senate Leadership, Agriculture Committee Leadership, Resource Committee Leadership)
- Idaho Fish and Game ("IDFG")
- Idaho Department of Water Resources ("IDWR")
- Idaho Water Resource Board ("IWRB")
- Bureau of Homeland Security ("BHS")
- Office of Species Conservation ("OSC")
- Department of Environmental Quality ("DEQ")
- Idaho Department of Lands ("IDL")
- Idaho Department of Parks and Recreation ("IDPR")
- Columbia River Basin Rapid Response Team
- Relevant water delivery agency (irrigation districts and canal companies)
- Idaho Power Co., Avista, or other relevant utilities
- Idaho Water Users Association ("IWUA")
- United States Fish and Wildlife Service ("USFWS")
- National Oceanic and Atmospheric Administration Fisheries ("NOAA Fisheries")
- Environmental Protection Agency ("EPA")
- Bureau of Reclamation ("BOR")
- United States Army Corps of Engineers ("Corps of Engineers")
- Idaho Aquaculture Association ("IAA")
- Northwest Power and Conservation Council ("NWPCC")
- Impacted counties, local county government and sheriff's office

Develop cooperative agreements, if needed, with cooperating agencies and entities.

<u>Objective 3</u>: Activate Appropriate Organizational Elements of the Columbia River Basin Interagency Response Plan

Purpose: Activate a response that promotes information sharing, ensures efficient resource management, and supports on-scene management.

Lead entity: ISDA, Idaho MAC Group and CRB MAC Group

Objective 4: Define Extent of Infestation

Purpose: Establish physical range of infestation.

Lead entity: ISDA

- 1) Intensive plankton tow sampling for microscopy analysis for Dreissenid veliger identification.
 - Sampling in suspected mussel infested area.
 - Sampling downstream of suspected mussel infested area.

- Sampling upstream of suspected mussel infested area.
- 2) Obtain necessary permission from property owners.
- 3) Check existing substrate samplers for mussel adults region-wide.
 - DEO
 - Water delivery agencies and companies
 - Utility companies with hydro power infrastructure
- 4) Check exposed infrastructure for adults, utilizing divers and ROV, or other appropriate methods.
 - BOR / Corps of Engineers
 - USFWS
 - Idaho Power Company, Avista, and other hydropower generators
 - Relevant water delivery companies and agencies (irrigation districts, canal companies, etc.)
 - IWUA
 - Local/regional law enforcement agencies
- 5) Explore removing existing infrastructure from the water for enhanced adult mussel survey (moored boats, docks, buoys).

Objective 5: Establish External Communications System

Purpose: Ensure consistent and effective communication to external stakeholders, including the media and public.

Lead Entity: ISDA (Chief of Staff)

- 1) Develop a press release.
- 2) Coordinate with interagency public information officers ("PIOs").
- 3) Establish point of contact ("POC") for media.
- 4) Prepare for ongoing media alerts (mandatory decontamination areas, closures, etc.).

Objective 6: Prevent Further Spread

Purpose: Minimize all pathways.

Lead Entity: ISDA (Program Staff)

1) Inventory boat launches in affected area (including those upstream and downstream, regardless of state boundaries).

- 2) Identify government or private entities with management authority over potential pathways.
- 3) Contact management authorities and advise of potential mandatory inspections or closures.
- 4) Initiate mandatory inspections, decontaminations or closures.

Objective 7: Initiate Available/Relevant Control Measures

Purpose: Proceed with either Early Detection / Rapid Response (EDRR) eradication efforts or containment / mitigation activities.

Lead Entity: ISDA (Management and Program Staff)

- 1) Convene an expert panel for consultation on treatment / containment options.
- 2) Evaluate management options given the nature of the population (veligers only, adults and veligers, isolated population vs. widespread population, etc.).
- 3) Evaluate complicating factors involved with treatment in the infested waterbody (water movement, subsurface flow, water volume, ESA species, water use).
- 4) Evaluate available eradication methods for the infested location.
 - Waterbody drawdown.
 - Chemical treatment. (option examples)
 - o Chem One (copper sulfate crystals)
 - o EarthTec (copper sulfate pentahydrate)
 - o Hydrothol 191 (endothall-amine)
 - o Natrix (copper carbonate)
 - o Potassium chloride (potash)
 - Other effective products
- 5) Engage regulatory authorities to obtain permitting and regulatory approval for eradication action. (EPA, USFWS, NOAA, DEQ, IDFG, IDWR)
- 6) Evaluate availability of control tools
 - Capacity / timing for drawdown.
 - Evaluate and assess water movement and subsurface flow in the treatment area.
 - Calculate area for chemical treatment (acre feet) to determine the amount of chemical required.
 - Determine availability and lead time required to obtain the amount of chemical needed for treatment
 - Determine availability and lead time for silt curtains to contain / restrict water movement in treatment areas.
 - o Construction contractors, USACE, etc.
- 7) Engage stakeholders on details and impacts of eradication action.

- 8) Identify and contract with a pesticide applicator to conduct treatment, following applicable purchasing and contracting laws. Determine the lead time needed to mobilize the contractor in order to conduct the application.
- 9) Initiate eradication action.
- 10) Evaluate in-water target concentration rates following treatment.
- 11) Evaluate treatment efficacy and continue monitoring for evidence of surviving mussels.

If needed, draft MOUs or cooperative agreements with entities participating in eradication.

Classification Change.

A "Suspect" or "Positive" classification can be removed if no mussel detections are found following seven consecutive years of extensive sampling in that waterbody.