

Draft Minutes

100th Meridian Initiative - Columbia River Basin Team Meeting

22 June 2011
Heathman Lodge
Vancouver, Washington

1. **Introductions and Announcements:** [See end of document for attendance list]
2. **Comments and Approval of June Minutes:** There were no comments on the February minutes and they were adopted. The minutes can be found at http://www.100thmeridian.org/Columbia_RBT.asp

Oregon *Dreissena* Rapid Response Plan- R. Draheim (PSU):

- Why write a state plan? -- Recognizing and understanding Oregon's response options, available resources and management limitations ahead of time will improve our response and thus our chances of success.
- Goal: This plan is intended to complement the Columbia River Basin Interagency Invasive Species Response Plan: Zebra Mussels and Other *Dreissena* Species drafted by the Columbia River Basin 100th Meridian Team as well as provide stand-alone guidance should mussels be found in Oregon but outside of the Columbia River Basin.
- One of the issues that needs to be worked on is quarantine authority - as there is not clear authority at this time
- Draft is expected out later this summer

Idaho exclusion/contingency plan for Quagga/Zebra- A. Ferriter (IDA)

- Although the chances of eradicating a new population of *Dreissenid* mussels are small, those chances depend directly on the ability of the state to respond quickly and effectively once a population is detected. There is an urgent need to develop control technologies for quagga and zebra mussels in Idaho's systems. To date, there are no known control technologies available for use outside of closed (infrastructure-type) systems. Applied research is needed to find new tools to eradicate or contain these species in an Idaho field response situation. In order to initiate this work, the state of Idaho (IDA) convened a Peer Panel of control technology experts in April 2011 to advise the state and associated stakeholders on measures that should be taken to prepare for a zebra or quagga mussel outbreak. These Panelists came from across the country and included Bob McMahon (UTA), Ric Deleon (Metro Water District of SoCal), Denise Hosler (BOR), Carleton Layne (consultant), and Bill Haller (UF). The Peer Panel was

asked to examine Idaho's "High Priority" waterbodies on a case-by-case basis. They came up with ranking criteria for waterbodies in terms of how easy or hard it would be to eradicate mussels. Federal and State regulators also attended the meeting and ideas were generated on the advanced permitting process for biocides (FIFRA, etc). The meeting write-up is expected soon and will be shared with other states.

- The panel also looked at Idaho's prevention program and indicated that roadside inspections made sense. They also stressed the importance of taking temperature data at monitoring sites (since less than 15 C is below quagga/zebra optimum spawning temperature)

Montana CRB Rapid Response Plan Exercise- E. Ryce (MTFWP), M. Herborg (BC)

- The next exercise is scheduled for October 4-6 in Libby, MT (Lake Kookanusa)
- Will focus on watercraft containment and may also involve fish hatchery issues
- Groups to be included will be USACE, USFS, USPS, Salish Kootenai Tribe, Flathead Basin, AIS stakeholders groups.
- Matthias felt the exercise would be very beneficial for BC and help in getting them more active in AIS prevention planning with other Canadian provincial and federal agencies
- Jim Ruff mentioned that doing anything with reservoir levels (for prevention purposes) will be very difficult as Kookanusa is a headwater reservoir and waters used for many purposes (ESA, Power, Flood control). Eileen agreed and realizes that preventing downstream migration is highly unlikely; thus the focus on containment.

Washington Aquatic Invasive Species Management General Permit - K. Hamel (WADOE) - call-in

- Effective May 20th, active for 5 years
<http://www.ecy.wa.gov/programs/wq/pesticides/invasive.html>
- No state agencies have asked for coverage (60 day waiting period), but this will likely change as new fiscal year is 7/1 (and WDFW will apply)
- \$415 permit fee
- EPA special needs permit will also be required

The Clean Boating Act: Regulation Development for Rec. Vessels- B. Rappoli (EPA)

Washington DC

- In 2005 a Federal court determined that EPA lacked authority to exempt discharges incidental to the normal operation of a vessel from regulation under the Clean Water Act (CWA).
- In 2006 the court struck down the exemption. As a result, EPA was required to regulate discharges incidental to the normal operation of certain vessels using CWA permits.
- In 2008, Congress passed the Clean Boating Act (CBA).
- New CWA § 312 (o) Three phases of regulations, EPA to:
 - Determine (by regulation) discharges for which it is reasonable and practicable to require management practices (MPs) and develop MPs
 - Issue regulation establishing performance standards for MPs

- USCG to:
 - Issue regulations governing design, construction, installation, and use of MPs
- Vessels covered: 17 million recreational vessels
- Discharges Covered: Any discharge, other than a discharge of sewage, from a recreational vessel that is incidental to the normal operation of the vessel (e.g., bilge water, graywater, and ballast water)
- Two aspects
 - Pollution prevention
 - ANS management
- CBA Enforcement: After effective date of USCG rule, discharges into waters of US or contiguous zone must meet performance standards; Enforcement of regulations by USCG and states may enforce via existing CWA §§ 312(j) & (k)
- Regulations will **not** preempt state laws
- States can have more protective requirements for ANS management and pollution prevention
- Prevention measures - Clean, drain, and dry; Biocidal wash; High-pressure high-temperature wash
- Anticipated implementation schedule: Publish Notice of Proposed Rulemaking: Summer, 2012; Final Phase 1 Rule: Summer, 2013; No enforceable practices until Phase 3 is promulgated by USCG
- S. Phillips: Hoped that his rule could help us with contaminated boats coming from the Great Lakes.
- L. Carlisle requested that the 463 tribes in the US be made more aware of this rule-making
- S. Smith mentioned similarities between this rule making and ballast water rulemaking and the need for testing facilities for decontamination technologies
- P. Heimowitz asked about whether the rules would be for live and dead organisms
- Brian: Yes, the rule could be written for live organism only
- Contact information: Rappoli.brian@epa.gov, (202)-566-1548;
<http://water.epa.gov/lawsregs/lawsguidance/cwa/vessel/CBA/>

Zebra/Quagga early detection- Group

- S. Phillips said that all of the 2010 data should be posted to the site <http://crbais.psmfc.org/monitoring/monitoring-for-aquatic-animals/zebraquagga-mussel-2010> in the coming weeks; we will be sending out another data call in 2011 later this summer for monitoring locations, similar to last year
- A. Pleus said that WDFW is looking for cooperators for dreissenid monitoring (contact Allen if you can help out)
- M. Herborg said that BC Hydro has hired/will hire a veliger sampling technician and that he has been in touch with BC Ministry of Transport to have bridge inspectors look for dreissenid while they are conducting their duties.
- E. Ryce anticipates 600 samples this year across the state, however flooding and low temps are an issue and it will impact sampling – right now shooting for mid-August. MT continues to process samples for Missouri River states and they have a 14 day turnaround

- A. Ferriter reported that they estimate will do 700 veliger and substrate samples this year.
- S. Wells talked about sampling standardization – the use of 25% ethanol for microscopy and 70% for PCR; he is also working (with USFWS funding) on a microscopy training manual and image library (online via Flickr), as well as training sessions for existing labs. This work should be completed soon.
- There was discussion on how the CRB RR Plan deals with “suspect” findings. Do we leave it up to the states?

NZMS conference summary- P. Heimowitz (USFWS)

- 6th meeting – held March 15-16, 2011 in Moscow, ID
<http://www.cnr.uidaho.edu/nzms/accomodations.htm>
- The meeting was built around the existing National NZMS Management plan and the associated topics of detection, control, prevention, and biology. A major meeting theme was “NZMS – do we still care?” In general, the presence of new researchers and other first-time attendees reflected some renewed interest. There was also interest in new invasions, such as Capitol Lake.
- One priority topic at the meeting was EDRR, including a paper on the potential use of environmental DNA (see below).

Environmental DNA: A new tool for the early detection of aquatic nuisance species

- Andy Ray (USGS) - call in

- Identification of species using environmental DNA (eDNA)
- Useful detection
 - Species detected at low densities is difficult and once found population may already be beyond control /eradication measures
 - DNA must be viable for a period of time
 - There are case studies where initial research indicated no false positives
- eDNA works in moving water
- Limitations
 - Small invertebrates
 - How many individuals for positive result?
 - Repeatability
 - Physical habitat controls
- Discussed eDNA for detection of NZ Mudsnaills and brook trout. USFWS has recently provided funding to USGS to examine the effectiveness of eDNA for NZMS detection.

State reports: watercraft intervention, laws, reciprocity, commercial haulers, Live/Dead;

2011 state legislative action- A. Ferriter (IDA), R. Boatner (ODFW), E. Ryce(MTFWP), E. Anderson (WDFW), A. Pleus (WDFW), R. Hooff (ORDEQ)

- R. Hooff – Oregon legislature passed ballast water bill, includes landing fee for vessels, funds will be used to enhance vessel inspections
- R. Boatner - mystery snails back, using stronger treatment of copper sulfate at a pond near White City; legislature passed HB 3399 to make boat inspections mandatory ; inspection teams will be based in la Grande, Madras, Clackamas, and Central Point and set up at highway rest stops and boat ramps
- G. Dolphin -- OSMB- has been doing a lot of education/outreach to boaters

- A. Pleus – WA AIS enforcement fee was extended in 2011 legislature (\$2)
 - Legislature terminated tunicate program
 - Discussed Thorton Creek NZMS find
- E. Anderson/C. Klein - 3 citations for carrying quagga/zebra on boats to date; will conduct at least 36 inspections stations this year
- E. Ryce - all watercraft inspections starting this Friday; fouled boats from out of state do not have to be decontaminated (unless they are willing)
 - All boats must stop at Inspection stations; will include stations at key waterbodies and highways (e.g. Rt's 2 and 15) Will be tagging inspected boats
 - Legislative session resulted in more funds for AIS Program; MTFWP will lead AIS state program as facilitator (along with MTDA and MTDNR) MTFWP will add an additional position to the AIS staff (4 full time)
- A. Ferriter - 3rd year of road side watercraft inspections, 16 contaminated boats intercepted so far this year (1/2 commercially hauled; 1/2 not)
 - Invasive species sticker funds the program
 - Idaho invasive species passport: for “local” travelers has been well received
 - Commercial haulers: interstate commerce clause, can't hold fouled boats unless destined for Idaho, if they are going to other states then we contact those states for decontamination
 - Budget cuts resulted in reduced outreach, but were able to do Idaho Power Utilities bill stuffer: newsletter; billboard was good, but too expensive
 - Lacey Act and how to involve federal enforcement was discussed, Feds will only come in when there are live mussels; discussion on field type quick rapid tests for viability (appears Feds need more than just moist and closed), the hope is (eventually) that USFWS LE will be able to help out with commercial haulers...hoping for good test case in coming months

Update on Don't Move a Mussel II video, UMPS II, Seaplane Video- B. Zook

- DMM II should be finalized and ready for distribution by September 30 – If anyone has idea for a new name for the video besides DMM II please contact bill
- Will also Create a video clip catalog as there is currently 100 hours of footage
- A draft of UMPS II should be out in July and finalized by September 30
- Seaplane video continues to be well received – SPA just ordered 1000 copies
- Stephen mentioned that Bill was retiring from most of his duties effective this summer and expressed the group's appreciation for his work over the past 6 + years.

Management Actions to Address the Threat of Aquatic Invasive Species in the Pacific Northwest Region - J. Capurso

- Agency direction
 - USFS lacks: proper control environment, overall assessment of risks of AIS, effective control activities
- Prevention: foster a public that understands their role in preventing AIS
 - Public contact, signage, social marketing
- Develop an agency understanding of AIS prevention and safeguards – currently Region VI AIS management Plan is under review

- Identify and interrupt pathway to introduction including fire operations
 - Potential for infected water and gear to be transported into the region.
 - Potential for infected water and gear to be transported between watersheds within the region.
 - Management measures in place to reduce threat of spread (Cynthia Tate helped with this)

BC Update- M. Herborg (Province of BC)

- Canadian Council of Fisheries and Aquaculture Ministers is focusing on prevention of AIS, recreational boating
- Through this working on federal buy in into AIS and ZQM
- Invasive Species Council of BC received \$3 Million for invasive species outreach some will go towards aquatics
- Increased engagement with local groups, mainly regional invasive plant councils to increase awareness
- Eradication of yellow perch and bass in the middle Fraser concluded in 2010
- Movement of Northern Pike up into BC is a growing concern
- Didymo is receiving more attention as new populations in central BC are being discovered
- Two MSc projects in BC on the impacts of smallmouth bass and yellow perch on native species
- AIS database for BC should be publicly available in a few month
- Working on increasing veliger sampling effort in BC and development of province wide ZQM early detection and rapid response plan

Don't Release Classroom Organisms – J. Lam

- Project has had good cooperation with teachers
- May customize materials for other regions
- Allen mentioned that Washington is trying to get a system in place to use native crayfish in the classroom

Member Updates

- A. Pleus discussed northern Pike issue in Pend D 'Oreille. Issue is that they are a game fish but also prohibited, so this needs to be clarified. There is consensus that they need to be eradicated, but this will be difficult
- J. Ruff mentioned that upper Columbia River Tribes were seeking BPA involvement (funding) on this pike issue.
- A. Pleus also said the Banks Lake drawdown is going forward as discussed at last CRB team meeting and that Jesse Schultz of his staff would be sending out updates as to monitoring plans when reservoir is drawdown (Fall 2011)
- P. Heimowitz mentioned that a USFWS Sea Grant fellow is helping with tunicate management efforts on the West Coast, particularly in Alaska, and may try to arrange a regional tunicate call/webinar later this summer.
- There was some discussion on Asian carp coordination and management, including a current effort to prioritize the many action items in the national Asian Carp Management Plan.

- P. Heimowitz said that the Ecotrust study (Aquatic Habitat Restoration Decision Support System) will be having meetings this summer with some of the CRB Team to help provide feedback on this project.
- S. Chan submitted a message that the Sea Grant project “Invasive Species Risk Assessment and Evaluation of Alternative Management Strategies” will soon have products to share for review.
- T. Counihan said that updated the group on their USGS/WSU CRB AIS project – they are trying to access internal funds to keep the project going; work continues on invasive copepod and rusty crayfish .
- A. Thomas - BOR doing vulnerability assessment trainings at their facilities, work also on screens for fish facilities.

Next meeting: There was discussion on having the meeting at a location other than Portland. We will consider having the winter 2012 meeting in Boise and the next Fall 2011 meeting in the Portland metro area in November (maybe second week). S. Phillips will email out next date.

Note: Thanks to Jennifer Lam who helped with meeting minutes

Attendance List 6/22/11 CRB Team Meeting

Last Name	First Name	Organization
Anderson	Eric C.	Washington Dept of Fish & Wildlife
Baker	Todd	Clark County Sheriff's Office
Boatner	Rick	Oregon Dept of Fish & Wildlife
Bollens	Steve	WSU
Capurso	James	USDA Forestry Service, Pacific NW Region
Carlisle	LaDonna	NW BIA
Counihan	Tim	USGS
Cushman	Kathleen	US Bureau of Reclamation
Draheim	Robyn	Portland State University
Ferriter	Amy	Idaho Department of Agriculture

Heimowitz	Paul	US Fish & Wildlife Service
Herborg	Matthias	BC Ministry of Environment
Hooff	Rian	Oregon Dept of Environmental Quality
Klein	Carl	Washington Dept of Fish & Wildlife
Lam	Jennifer	OSU
Martinez	Madelyn	USACE
Naramore	James	Clark County Sheriff's Office
Phillips	Stephen	Pacific States Marine Fisheries Commission
Pleus	Allen	Washington Dept of Fish & Wildlife
Poirier	Jennifer	USFWS
Pratt	Christine	Seattle City Light
Rappoli	Brian	EPA - Washington, DC
Reesman	Martyne	Oregon Dept of Fish & Wildlife

Ruff	Jim	NWPCC
Ryce	Eileen	Montana Fish Wildlife & Parks
Scacco	Josh	OSU
Schneider	Amy	OSU
Smith	Scott	USGS, Western Fisheries Research Center
Thomas	Arden	US Bureau of Reclamation
Turner	Corey	Washington State Patrol
Volker Smith	Gretchen	USACE
Waste	Stephen	USGS - Columbia River Research Laboratory
Wells	Steve	Portland State University
Zook	Bill	Pacific States Marine Fisheries Commission