

Utah FWMAO Electrofishing HACCP Plan

8/1/03

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1. Product Description

Organization Name:	Utah Fish and Wildlife Management Assistant Office, U.S. Fish and Wildlife Service
Organization Address:	1380 South 2350 West Vernal, Utah 84078
Species of fish:	All
Cultured, Wild harvested, or both:	n/a
Harvest method	Backpack and boat electrofishing gear, seines, trap nets, hook and line
Method of distribution and storage:	n/a
Intended use and consumer:	Fisheries survey data collection using electrofishing gear, nets, hook and line

2. Flow Diagram

Step 1	Travel in vehicle to area to be sampled
Step 2	Sample water using applicable electrofishing equipment, seines, nets, hook and line.
Step 3	Capture fish with dip nets while wading in water or in boat.
Step 4	Put fish in live wells, measure and weigh fish, release fish back into the water. Occasionally, fish will be kept as specimens for contaminant or genetic analysis or other use.
Step 5	Return equipment to vehicle.
Step 6	Sample another location or return to office, clean (disinfect) and store equipment, boats, and vehicles.
Step 7	Any fish kept will be handled according to intended purpose.
Step 8	
Step 9	
Step 10	
Step 11	
Step 12	

3. Potential Hazards

Listed are the aquatic nuisance species (ANS) that are found in local waters that could potentially hitchhike to receiving waters and cause ecological harm.

- a. ANS Fish: Any fish species not native to Utah, Colorado, Wyoming, or Nevada. For example: Rainbow trout *Oncorhynchus mykiss*, Brook trout *Salvelinus fontinalis*, and Brown trout *Salmo trutta*.
- b. ANS Other Vertebrates:
- c. ANS Invertebrates: Crayfish.
- d. ANS Invertebrates: Whirling disease *Myxobolus cerebralis*, Zebra Mussels *Dreissena polymorpha*, and New Zealand Mudsnail *Potamopyrgus antipodarum*.
- e. ANS Plants: Tamarisk or Salt Cedar *Tamarix ramosissima*, Russian Olive *Elaeagnus augustifolia*, and Eurasian milfoil *Myriophyllum spicatum*.

4. Hazard Analysis Worksheet

(1) Harvest	(2) Potential ANS hazards introduced or controlled in step (1)	(3) Are any potential ANS hazards significant? (Yes/No)	(4) Justifications for decisions in column 3.	(5) Preventive measures to be applied to prevent significant hazards.	(6) Step is critical control point? (Yes/No)
Sample another location or return to office, clean and store equipment	Fish	Yes	Some fish species aren't in all watersheds	Empty all live wells and dispose of all fish properly	Yes
	Vertebrates	Yes	Some vertebrate species aren't in all watersheds	Empty all live wells and dispose of all animals properly	Yes
	Invertebrates	Yes	Some Invertebrate species aren't in all watersheds	Wash gear and equipment, allow to dry before using again	Yes
	Plants	Yes	Some plant species aren't in all watersheds	Wash gear and equipment, allow to dry before using again	Yes

(1) Critical Control Point (CCP)	(2) Significant Hazard(s)	(3) Control Measures	Monitoring				(8) Corrective Action(s)	(9) Records	(10) Verification
			(4) What	(5) How	(6) Frequency	(7) Who			
Sample another location or return to shop and store equipment	Fish Vertebrates - (besides fish) Invertebrates Plants	0-Fish 0-Other verts 0-Inverts 0-Live plants	Inspection of Electrofishing equipment, waders and accessories	Visually	After each sampling occasion	Project Coordinator or delegated employee	Re-wash and/or disinfect equipment	Each Project Coordinator will record the date that all equipment was cleaned. This will be necessary before equipment can be used again.	No animal or plant matter or mud present on or in waders or sampling gear.

U.S. Fish and Wildlife Service	Species of Fish: all
Firm Address: 1380 South 2350 West, Vernal, Utah 84078	Method of Storage and Distribution: N/A
Signature: Dave Irving	Intended Use and Consumer: Fishery survey data collection using electrofishing equipment
Date: 10/29	