

# AZFRO Habitat Monitoring & Improvement HACCP Plan

Updated 5/31/01

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## 1. Product Description

<b>Firm Name:</b>	Arizona Fishery Resources Office
<b>Firm Address:</b>	P.O. Box 39 Pinetop AZ 85935
<b>Species of fish:</b>	all
<b>Cultured, wild harvested, or both:</b>	n/a
<b>Harvest method:</b>	Habitat work, stream measurement, water quality
<b>Method of distribution and storage:</b>	n/a
<b>Intended use and consumer:</b>	Habitat monitoring & improvement

## 2. Flow Diagram

<b>Step 1</b>	Launch boat & drive to site or hike to stream site
<b>Step 2</b>	Deploy water sampling gear, conduct measurements, or manipulate habitat. Waders are worn while doing stream work.
<b>Step 3</b>	Load boat on trailer or hike back to vehicle
<b>Step 4</b>	Either sample another location or return to office & store gear/equipment
<b>Step 5</b>	
<b>Step 6</b>	
<b>Step 7</b>	
<b>Step 8</b>	
<b>Step 9</b>	
<b>Step 10</b>	
<b>Step 11</b>	
<b>Step 12</b>	

## 3. Potential Hazards

List aquatic species here that are found in hatchery water supply or local waters that could potentially hitchhike to receiving waters and cause ecological harm. These are called *Aquatic Nuisance Species* (ANS).

- a. **ANS Fish:** any fish species not native to AZ
- b. **ANS Other Vertebrates:** Includes bullfrog tadpoles, toads tadpoles
- c. **ANS Invertebrates:** crayfish, whirling disease
- d. **ANS Plants:** giant salvinia

## 4. Hazard Analysis Worksheet

(1) Harvest or Aquaculture Step	(2) Identify potential ANS hazards introduced or controlled at this step (1)	(3) Are any potential ANS hazards significant? (Yes/No)	(4) Justify your decisions for column 3.	(5) What preventive measures can be applied to prevent the significant hazards?	(6) Is this step a critical control point? (Yes/No)
4. Either sample another location or return to office & store gear/equipment	Fish	yes	Some fish species aren't in all watersheds	Wash gear & equipment with disinfectant, allow to dry before using again	yes
	Other Vertebrates	yes	Some other vertebrate species aren't in all watersheds	Wash gear & equipment with disinfectant, allow to dry before using again	yes
	Invertebrate	yes	Some invertebrate species aren't in all watersheds	Wash gear & equipment with disinfectant, allow to dry before using again	yes
	Plant	yes	Some plants aren't in all watersheds	Wash gear & equipment with disinfectant, allow to dry before using again	yes
	Fish				
	Other Vertebrates				
	Invertebrate				
	Plant				
	Fish				
	Other Vertebrates				
	Invertebrate				
	Plant				
	Fish				
	Other Vertebrates				
	Invertebrate				
	Plant				
	Fish				
	Other Vertebrates				
	Invertebrate				
	Plant				
	Fish				
	Other Vertebrates				
	Invertebrate				
	Plant				
	Fish				
	Other Vertebrates				
	Invertebrate				
	Plant				

## 5. HACCP Plan Form

(1) Critical Control Point (CCP)	(2) Significant Hazard(s)	(3) Control Measures	Monitoring				(8) Corrective Actions(s)	(9) Records	(10) Verification
			(4) What	(5) How	(6) Frequency	(7) Who			
4. Either sample another location or return to office & store gear/equipment	fish, other verts, inverts, plants	0 - fish 0 - other verts 0 - crayfish 0 - live plants	inspection of boat, trailer, & gear	visually	after each sampling trip	Project Coordinator or delegated employee	re-wash gear	Each Project Coordinator will record the date that all equipment was cleaned. This will be necessary before the equipment can be used again.	No animal or plant matter or mud present on or in boat, trailer, waders or sampling gear.

Firm Name: AZFRO	Species of Fish: all
Firm Address: P.O. Box 39 Pinetop AZ 85935	Method of Storage and Distribution: N/A
Signature: Stewart Jacks	Intended Use and Consumer: Habitat work, stream measurement, water quality
Date: 05-31-01	