

# OKFRO Backpack Electrofishing HACCP Plan

Updated 5/15/02

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## 1. Product Description

<b>Firm Name:</b>	Oklahoma Fishery Resources Office
<b>Firm Address:</b>	5700 West Highway 7 Tishomingo OK 73460
<b>Species of fish:</b>	all
<b>Cultured, wild harvested, or both:</b>	n/a
<b>Harvest method:</b>	Backpack electrofishing gear
<b>Method of distribution and storage:</b>	n/a
<b>Intended use and consumer:</b>	Fishery survey data collection using backpack electrofishing gear

## 2. Flow Diagram

<b>Step 1</b>	Drive & then hike to stream site
<b>Step 2</b>	Sample using backpack mounted electrofishing equipment
<b>Step 3</b>	Capture fish using dip nets while walking in the stream wearing waders
<b>Step 4</b>	Put fish in live wells (buckets), measure &/or tag fish, release fish back into water. Occasionally fish will be kept for voucher specimens, contaminant analysis, genetic analysis, or other purposes.
<b>Step 5</b>	Hike back to vehicle
<b>Step 6</b>	Either sample another location or return to office & store gear/equipment
<b>Step 7</b>	Any fish kept will be handled according to intended purposes
<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 OK
- b. **ANS Other Vertebrates:**
- c. **ANS Invertebrates:** crayfish, zebra mussel
- 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)
6. Either sample another location or return to office & store gear/equipment	Fish	yes	Some fish species aren't in all watersheds	Empty all live wells & dispose of all fish properly	yes
	Other Vertebrates	yes	Some other vertebrate species aren't in all watersheds	Empty all live wells & dispose of all animals properly	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			
6. 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 backpack, waders, & 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 waders or sampling gear.

Firm Name: OKFRO	Species of Fish: all
Firm Address: 5700 West Highway 7 Tishomingo OK 73460	Method of Storage and Distribution: N/A
Signature: Brent Bristow	Intended Use and Consumer: Fishery survey data collection using backpack electrofishing gear.
Date: 05-15-02	