

HACCP Step 1 – Activity Description

Activity Description	
Facility: Iron River National Fish Hatchery	Site: Above fish barrier on Schacte Creek
Project Coordinator: Kurt Schilling	Activity: Collection and relocation of fishes above the fish barrier on Schacte Creek.
Site Manager: Dale Bast	
Address: 10325 Fairview Road Iron River, WI 54847	
Phone: 715-372-8510	

Project Description i.e. Who; What; Where; When; How; Why
<p>Schacte Creek supplies water to the Iron River National Fish Hatchery for rearing. Intakes 2 and 3 supply first use water to the Brood and Hatchery Buildings. Intake 1 and a stream pump supply first use water to the Production Building and the water from the Brood and Hatchery Buildings is re-used in the Production Building. A fish barrier is maintained below the sedimentation ponds to minimize movement of fish into the hatchery water supply.</p> <p>An established wild fish population exists in the hatchery’s water supply above the hatchery’s fish barrier and occasionally, high water events flood the fish barrier and allow fish to enter the water supply from below the barrier. The hatchery periodically electro-shocks Schacte Creek, above its barrier, to reduce the number of salmonids and sculpins in the water supply. Reducing the number of fish minimizes potential vectors of pathogen transferal to the hatchery. Captured fish are tested by Service fish health biologists annually. At other times during the year fish are relocated back to the stream below the fish barrier. Fish collections are usually performed in cooperation between the Ashland FRO and hatchery personnel.</p>
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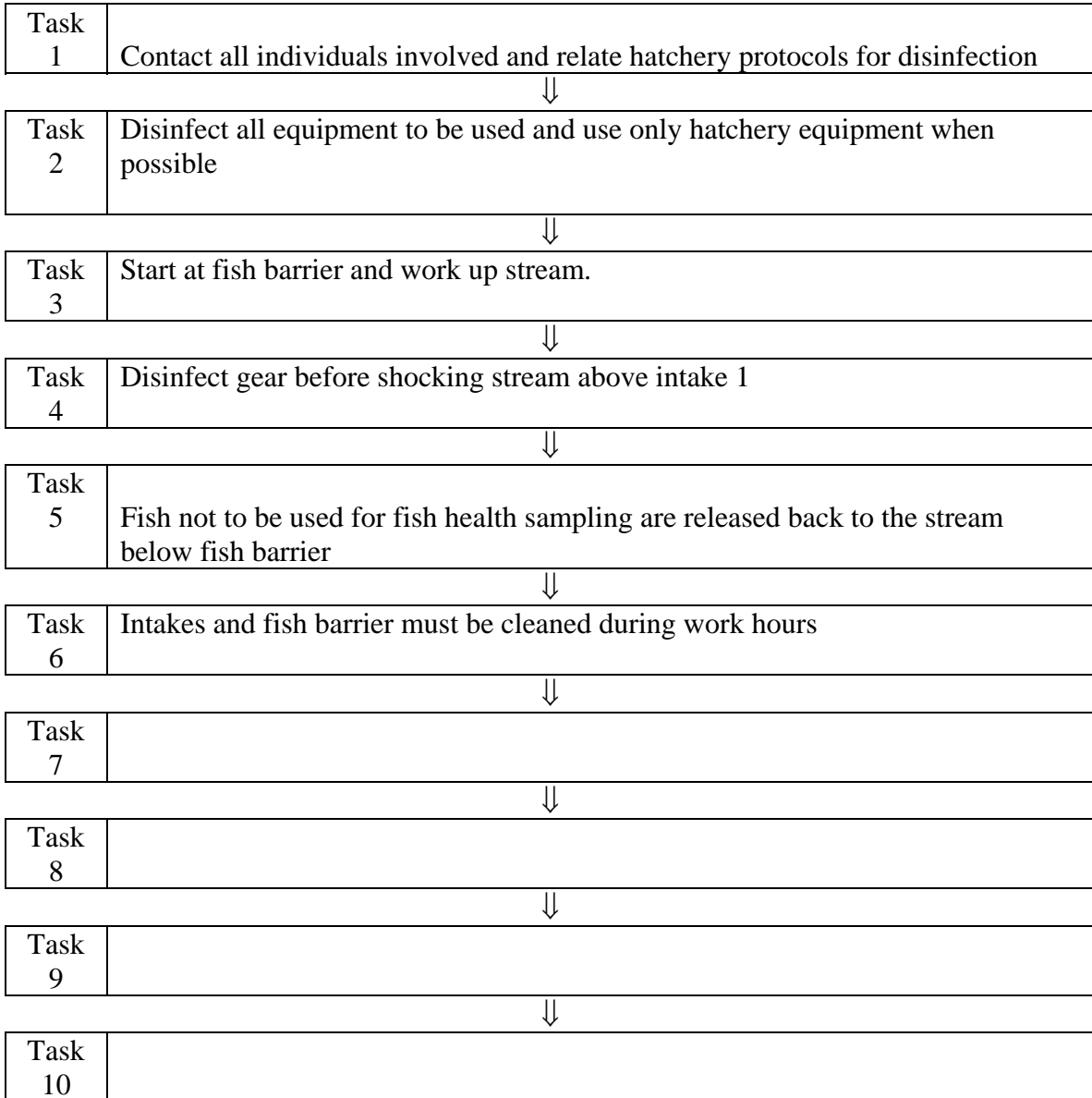
HACCP Step 2 – Identify Potential Hazards

(to be transferred to column 2 of HACCP Step 4 – Hazard Analysis Worksheet)

Hazards: Species Which May Potentially Be Moved/Introduced
Vertebrates: none
Invertebrates: Alien invaders currently present in the upper great lakes region but not present in hatchery water supply (i.e. New Zealand mudsnails, Spiny and Fishhook Waterfleas, Zebra Mussels...etc.). Currently no alien invaders of any type present in hatchery water supply.
Plants: Alien invaders currently present in the upper great lakes region but not present in hatchery water supply (i.e. Eurasian Water-Milfoil, Purple Loosestrife, curly-leaf pondweed...etc.). Currently no alien invaders of any type present in hatchery water supply.
Other Biologics (e.g. disease, pathogen, parasite): Fish pathogens and parasites commonly found in the upper great lakes region and reportable salmonid pathogens, but not present in hatchery water supply (i.e. Infectious Pancreatic Necrosis (IPN), Furunculosis <i>Aeromonas salmonicida</i> , Enteric Redmouth Disease <i>Yersinia ruckeri</i> , Bacterial Kidney Disease <i>Renibacterium salmoninarum</i> , Saprolegnia, Gyrodactyliasis... etc). Currently no detectable fish pathogens present in hatchery water supply.
Others (e.g. construction materials, etc.): Motor oil, gasoline

HACCP Step 3 – Flow Diagram

Flow Diagram Outlining Sequential Tasks to Complete Activity/Project
Described in HACCP Step 1 – Activity Description
(to be transferred to column 1 of the HACCP Step 4 – Hazard Analysis Worksheet)



HACCP Step 4 - Hazard Analysis Worksheet

1 Tasks (from HACCP Step 3 - Flow Diagram)	2 Potential hazards identified in HACCP Step 2	3 Are any potential hazards probable? (yes/no)	4 Justify evaluation for column 3	5 What control measures can be applied to prevent undesirable results?	6 Is this task a critical control point? (yes/no)
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Task 1 Contact all individuals involved and relate hatchery protocols for disinfection	Vertebrates None	No	None present	NA	No
	Invertebrates New Zealand mudsnail, Spiny and Fishhook Waterfleas, Zebra Mussels	Yes	Invasive species could be transported on shocking equipment	Ask individuals to make sure equipment is cleaned and dried.	No
	Plants Eurasian Water-Milfoil, Purple Loosestrife, etc	Yes	Plants could be transported into stream on shocking equipment.	Ask individuals to make sure equipment is cleaned and dried.	No
	Others Fish pathogens and parasites	Yes	Fish disease could be present on equipment	Ask individuals to make sure equipment is cleaned and dried.	No

Task 2 Disinfect all equipment to be used and use only hatchery equipment when possible	Vertebrates None	No	None present	NA	No
	Invertebrates New Zealand mudsnail, Spiny and Fishhook Waterfleas, Zebra Mussels	Yes	Invasive species could be transported on shocking equipment	Disinfect all equipment/vehicles/gear from off-site sources with Sanaqua (290 ppm) 10 minutes.	Yes
	Plants Eurasian Water-Milfoil, Purple Loosestrife, etc	Yes	Plants could be transported into stream on shocking equipment.	Disinfect all equipment/vehicles/gear from off-site sources with Sanaqua (290 ppm) 10 minutes.	Yes

	Others Fish pathogens and parasites	Yes	Fish disease could be present on equipment	Disinfect all equipment/vehicles/gear from off-site sources with Sanaqua (290 ppm) 10 minutes.	Yes
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Hazard Analysis Worksheet (continued)

1 Tasks (from HACCP Step 3 - Flow Diagram)	2 Potential hazards identified in HACCP Step 2	3 Are any potential hazards probable? (yes/no)	4 Justify evaluation for column 3	5 What control measures can be applied to prevent undesirable results?	6 Is this task a critical control point? (yes/no)
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Task 3 Start at fish barrier and work up stream.	Vertebrates None	No	None present	NA	No
	Invertebrates None	No	None present	NA	No
	Plants None	No	None present	NA	No
	Others None	No	None present	NA	No

Task 4 Disinfect gear before shocking stream above pumping station	Vertebrates None	No	None present	NA	No
	Invertebrates None	No	None present	NA	No
	Plants None	No	None present	NA	No
	Others Fish pathogens and parasites	Yes	Fish pathogens could be present in lower Schacte Creek that are not present above pumping station.	Disinfect all equipment/vehicles/gear from off-site sources with Sanaqua (290 ppm) 10 minutes.	No

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HACCP Step 4 - Hazard Analysis Worksheet (continued)

1 Tasks (from HACCP Step 3 - Flow Diagram)	2 Potential hazards identified in HACCP Step 2	3 Are any potential hazards probable? (yes/no)	4 Justify evaluation for column 3	5 What control measures can be applied to prevent undesirable results?	6 Is this task a critical control point? (yes/no)
Task 5 Fish not to be used for fish health sampling are released back to the stream below fish barrier	Vertebrates None	No	None present	NA	No
	Invertebrates None	No	None present	NA	No
	Plants None	No	None present	NA	No
	Others None	No	None present	NA	No
Task 6 Intakes and fish barrier must be cleaned after work in the stream is completed	Vertebrates None	No	None present	NA	No
	Invertebrates None	No	None present	NA	No
	Plants None	No	None present	NA	No
	Others None	No	None present	NA	No

HACCP Step 5 – HACCP Plan Form

HACCP Plan Form								
(all CCP's or "yes's" from column 6 of HACCP Step 4 – Hazard Analysis Worksheet)								
Critical Control Point (CCP)	Significant Hazard(s)	Limits for each Control Measure	Monitoring				Evaluation & Corrective Action(s) (if needed)	Supporting Documentation (if any)
			What	How	Frequency	Who		
(2) Disinfect all equipment to be used and use only hatchery equipment when possible	Invertebrates Plants Other biotics	Must be 100% positive no ANS species or fish pathogens and parasites are present.	Disinfection protocol	Use of hatchery Disinfection bay	Every time any non hatchery equipment enters stream	Hatchery personnel	If disinfection of equipment is questionable shocking of stream will not take place until positively clean equipment can be obtained. Hatchery supervisor responsible for following protocols.	Records in disinfection bay log book. Stream shocking records. Hatchery Stream Shocking SOP.
Facility: Iron River National Fish Hatchery						Activity: Stream Shocking		
Address: 10325 Fairview Rd., Iron River, WI 54847								
Signature:						Date:		
HACCP Plan was followed.								