

HACCP Step 1 – Activity Description

Activity Description	
Facility: Iron River National Fish Hatchery	Site: On-site and various stocking locations
Project Coordinator: Kurt Schilling	Activity: Fish Distribution
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>Iron River National Fish Hatchery is a combination broodstock/production facility. The station produces up to 1.6 million lake trout annually for distribution into waters of the upper Great Lakes. The majority of the lake trout (1.2 million) are raised as yearlings. The typical rearing cycle for yearlings begins in February and ends in May of the following year. The hatchery also raises approximately 200,000 coaster brook trout eggs, fry, fingerlings, yearlings and adults. Fry are raised from February until early June, and fingerlings are raised to as late as November. The distribution season consists of a few weeks in the fall (October) and mid- April through early July. The station receives approximately 4,000 g.p.m. fresh water captured from Schacte Creek which originates from natural spring/stream flow on Hatchery grounds.</p>

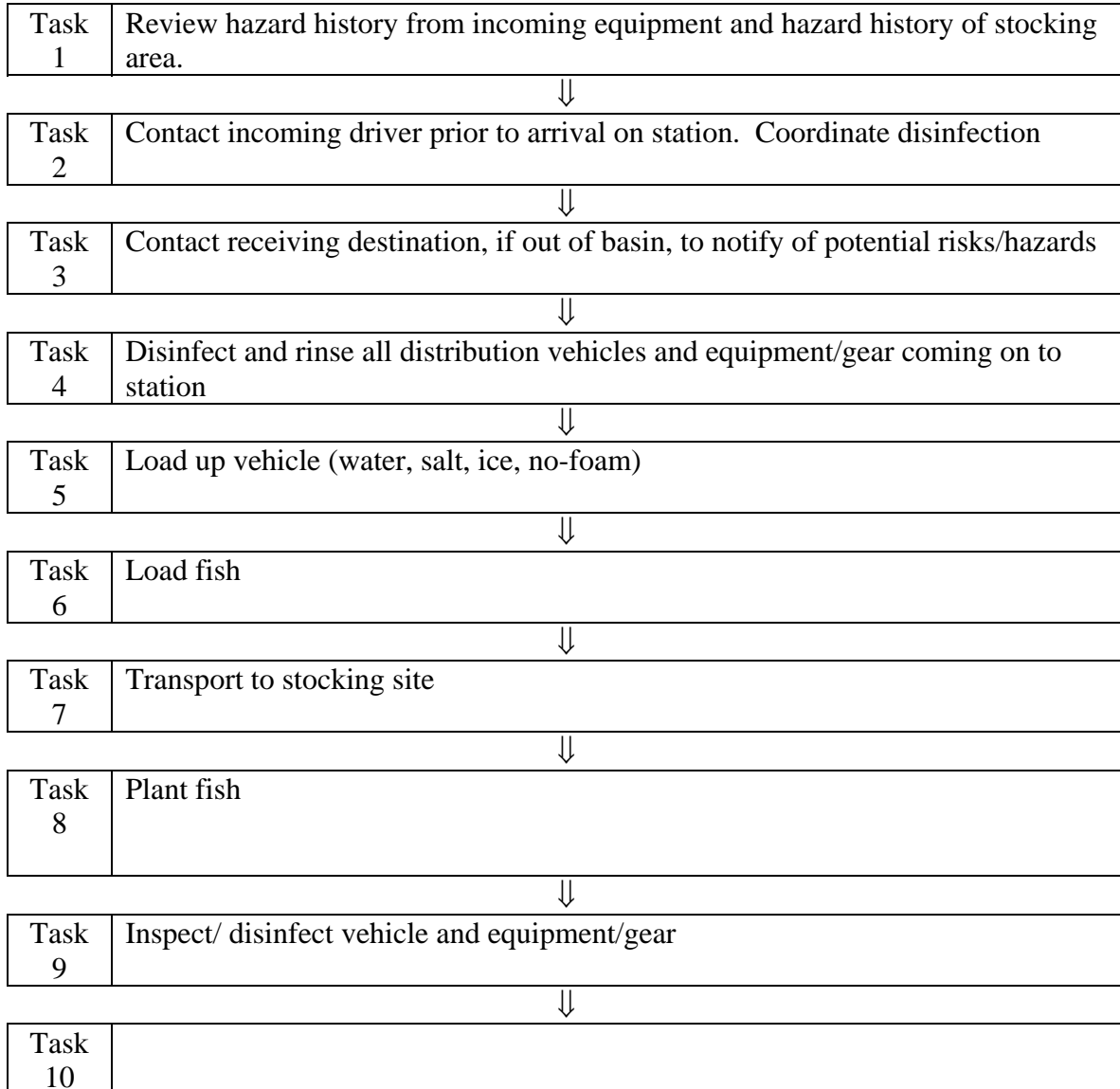
HACCP Step 2 – Identify Potential Hazards

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

Hazards: Species Which May Potentially Be Moved/Introduced
Vertebrates: None present, however potential to be infested with Eurasian Ruffe, Round Goby.
Invertebrates: None present however, New Zealand Mudsnaills; <i>Potamopyrgus antipodarum</i> , are located within 40 miles in St. Louis Bay of Lake Superior.
Plants: Eurasian Millfoil, Purple Loosestrife.
Other Biologics (e.g. disease, pathogen, parasite): Includes all fish diseases, pathogens and parasites not present in hatchery water supply. Currently no detectable fish pathogens present in hatchery water supply
Others (e.g. construction materials, etc.):

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 Review hazard history of incoming equipment and hazard history of stocking area.	Vertebrates	Yes	Potential	Visual inspections	Yes
	Invertebrates	Yes	Potential	Visual inspections	Yes
	Plants	Yes	Potential	Visual inspections	Yes
	Others	Yes	Potential	Disinfect all equipment/vehicles/ gear from off-site sources with Sanaqua (290 ppm) 10 minutes.	Yes
Task 2 Contact incoming driver prior to arrival on station. Coordinate disinfection.	Vertebrates	Yes	Potential	Visual inspections upon arrival	Yes
	Invertebrates	Yes	Potential	Visual inspections upon arrival	Yes
	Plants	Yes	Potential	Visual inspections upon arrival	Yes
	Others	Yes	Potential	Plan disinfection procedures before arrival of vehicle/gear	Yes

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 Contact receiving destination, if out of basin, to notify of potential risks/hazards	Vertebrates	Yes	None present, but potential	Visual inspections	Yes
	Invertebrates	Yes	None present, but potential	Visual inspections	Yes
	Plants	Yes	None present, but potential	Visual inspections	Yes
	Others	Yes	Fish disease could be present in Schacte Creek water supply	Transport fish with alternative water source. Cancel stocking if risk not accepted.	Yes

Task 4 Disinfection of all distribution vehicles and equipment coming on to station.	Vertebrates	Yes	Potential	Visual inspections	Yes
	Invertebrates	Yes	Potential	Visual inspections	Yes
	Plants	Yes	Potential	Visual inspections	Yes
	Others	Yes	Potential	Disinfect all equipment/vehicles/gear from off-site sources with Sanaqua (290 ppm) 10 minutes.	Yes

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 Load up vehicle (water, salt, ice, no-foam)	Vertebrates	No	None present		No
	Invertebrates	No	None present		No
	Plants	No	None present		No
	Others	Yes	Fish disease could be present in Schacte Creek water supply	Wild fish populations surveyed for disease.	No
Task 6 Load fish	Vertebrates	No	None present		No
	Invertebrates	No	None present		No
	Plants	No	None present		No
	Others	Yes	Fish disease could be present in Schacte Creek water supply	Avoid undue stress to fish by gently crowding/pumping fish onto trucks. Water flows are maximized. Liquid oxygen use increased to maintain high D.O.'s. Fish health inspection verified.	No

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 7 Transport fish to stocking site.	Vertebrates	No	None present		No
	Invertebrates	No	None present		No
	Plants	No	None present		No
	Others	Yes	Fish disease could be present in Schacte Creek water supply. If problems, refer to station distribution SOP	Monitoring of D.O., temp., and fish behavior several times throughout transport.	No

Task 8 Plant fish.	Vertebrates	Yes	Potential	Visual inspection	Yes
	Invertebrates	Yes	Potential	Visual inspection	Yes
	Plants	Yes	Potential	Visual inspection	Yes
	Others	Yes	Fish disease could be present at stocking area	Minimize equipment/gear contact with possible disease sources.	Yes

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 9 Inspect/ disinfect vehicle	Vertebrates	No	Potential	Visual inspection	Yes
	Invertebrates	No	Potential	Visual inspection	Yes
	Plants	No	Potential	Visual inspection	Yes
	Others	Yes	Fish disease could be acquired from stocking sites.	Disinfect all equipment/vehicles/gear from off-site sources with Sanaqua (290 ppm) 10 minutes.	Yes

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)

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		
Review hazard history of incoming equipment and hazard history of stocking area.	Invertebrates Vertebrates Plants Other Biologics	Stocking area possibly contaminated. Facility where trucks originate from not certified pathogen free	Fish health inspection reports Wild fish health survey results	Visual check. Check paperwork Contact facility sending equipment	Annually prior to distribution season	Assistant Manager or Project Leader	Review risk Assess stocking options	Disease certification status
Contact incoming driver prior to arrival on station. Coordinate disinfection.	Invertebrates Vertebrates Plants Other Biologics	All equipment will be disinfected before coming into rearing facilities	Control disease incidence	Contact facility sending equipment	Everytime equipment is coming onto station	Assistant Manager or Project Leader	Driver will not be allowed on station	Disease certification status
Contact receiving destination, if out of basin, to notify of potential risks/hazards	Invertebrates Vertebrates Plants Other Biologics	Fish disease pathogens are not visible.	Fish health inspection reports	Contact/ notify receiving destination of potential risks	Everytime fish are planted out of basin	Assistant Manager or Project Leader	No stocking will occur	Disease certification status
Disinfection of all distribution vehicles and equipment coming on to station.	Invertebrates Vertebrates Plants Other Biologics	Fish disease pathogens are not visible.	Control disease incidence	Disinfection logbook Sanaqua Chlorine	Daily or when in contact with non-hatchery water source	Staff	Disinfect and inspect all equipment.	Records kept in operations log book

HACCP Step 5 – HACCP Plan Form Continued

HACCP Plan Form

(all CCP's or "yes's" from column 6 of HACCP Step 4 – Hazard Analysis Worksheet)

H Critical Control Point (CCP)	Significant Hazard(s)	Limits for each Control Measure	What	How	Frequency	Who	Evaluation & Corrective Action(s) (if needed)	Supporting Documentation (if any)
Plant fish	Invertebrates Vertebrates Plants Other Biologics	Minimize exposure to possible hazards.	Minimize contact with unknown water	Limit use to dedicated equipment only	Every stocking event	Driver		Comments recorded on trip sheets.
Inspect/ disinfect vehicle	Invertebrates Vertebrates Plants Other Biologics	Ensure no debris remains on vehicle/equipment. Disinfect using station protocol.	Control disease incidence	Disinfection logbook Sanaqua Chlorine	After every stocking event if exposed to non-hatchery water source	Staff	Remove and disinfect	Records kept in operations log book

Facility: Iron River National Fish Hatchery	Activity: Fish Distribution
Address: 10325 Fairview Rd. Iron River, WI 54874	
Signature: HACCP Plan was followed.	Date:

