

NMFRO FISH STOCKING/TRANSPLANT HACCP Plan

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1. Product Description

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| Firm Name: | New Mexico Fishery Resources Office |
| Firm Address: | 2105 Osuna NE Albuquerque, NM 87113 |
| Species of fish: | all |
| Cultured, wild harvested, or both: | all, including non-target fish species accidentally occurring in hatchery shipments |
| Harvest method: | dip net, electrofishing, seine, net |
| Method of distribution and storage: | fish transport truck either from hatchery (stocking) or from NMFRO (transplant) |
| Intended use and consumer: | recipients (primarily tribal) of FWS hatchery-reared or collected sport fish species |

2. Flow Diagram

| | |
|----------------|--|
| Step 1 | Drive to stocking or fish transplant collection site |
| Step 2 | Net and distribute fish from fish transport truck to receiving water or collect from donor site, transport, and transplant target species to receiving water |
| Step 3 | Return to vehicle |
| Step 4 | Either sample another location or return to office, store and clean gear/equipment |
| Step 5 | |
| Step 6 | |
| Step 7 | |
| Step 8 | |
| Step 9 | |
| Step 10 | |
| Step 11 | |
| Step 12 | |

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 NM drainage basins
- b. **ANS Other Vertebrates:** Includes bullfrog tadpoles,
- c. **ANS Invertebrates:** molluscs, 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) |
|---|---|--|--|---|--|
| 2. Net and distribute fish from fish transport truck to receiving water or collect from donor site, transport, and transplant target species to receiving water | Fish | yes | There is a history of transport of non-target fish species in hatchery shipments | Prior to shipment from hatchery or donor site loads should be sorted and verified for absence of non-target species, on receiving end have FRO meet truck and visually inspect and remove any non-target species or reject hatchery shipment if numbers too high to prevent total removal prior to stocking | yes |
| | Other Vertebrates | yes | There is a history of transport of bullfrog tadpoles in hatchery shipments | Prior to shipment from hatchery or donor site loads should be sorted and verified for absence of tadpoles, on receiving end FRO meet truck and visually inspect | yes |
| | Invertebrate | yes | There is a history of transport of non-target invertebrate species in hatchery shipments | Prior to shipment from hatchery or donor site loads should be sorted and verified for absence of macroinvertebrates, on receiving end FRO meet truck and visually inspect | yes |
| | Plant | yes | Some plants aren't in all watersheds | Prior to shipment from hatchery or donor site loads should be sorted and verified for absence of plants, on receiving end FRO meet truck and visually inspect | yes |

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 | | | |
| 2. Net and distribute fish from fish transport truck to receiving water or collect from donor site, transport, and transplant target species to receiving water | fish, other verts, inverts, plants | 0 - fish 0 - other verts 0 - crayfish 0 - live plants | shipment of fish and any other macro-life forms contained in shipments | visually and by hand sorting | for every shipment and transplant trip | Project Coordinator or delegated employee | remove non-target organisms if numbers are low enough to guarantee complete removal, if too high reject shipment and report to Regional Office Fisheries Program Supervisor | Each Project Coordinator will record the date that shipment checked and what, if any, non-target organisms were removed | Random dip net of load results in capture of only target species |
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| Firm Name: NMFRO | Species of Fish: all |
| Firm Address: 2105 Osuna NE Albuquerque, NM 87113 | Method of Storage and Distribution: FWS hatchery or FRO fish transport truck |
| Signature: Jim Brooks | Intended Use and Consumer: recipients (primarily tribal) of FWS hatchery-reared or collected sport fish species |
| Date: 05-31-02 | |