

## Equipment and supplies used for U.S. Geological Survey mercury studies of invertebrates and fish.

[HCl, hydrochloric acid; %, percent; v/v, volume per volume; DI, deionized; lbs, pounds; mL, milliliters; mm, millimeter; L, liter; PETE, polyethylene terephthalate; g, gram; PP, polypropylene]

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### GENERAL

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- Acid, HCl Omni Trace, 5% v/v in DI water
- Barcodes with duplicates (samples, field sheets)
- Batteries (9-volt, AA, C, D)
- Carboys, 5-gallon (2, tap; 2, DI water; 1, 5% HCl)
- Camera, digital
- Chairs, folding
- Clipboard (wooden or plastic)
- Coolers (4, wet ice; 2, dry ice)
- Collection permits/licenses
- Detergent, phosphate-free (e.g., Liquinox®)
- Field data sheets (pre-printed, water-resistant paper)
- Field log sheets (pre-printed, water-resistant paper)
- First aid kit
- Flashlights and headlamps
- Formalin (100%, buffered to pH = 7)
- Garbage bags, large, plastic
- Gloves, powder-free (nitrile, vinyl, other non-latex)
- Gloves, heavy duty rubber (reusable)
- Goggles, safety/chemical
- Global Positioning System (GPS) unit
- Head nets
- Multi-parameter sampler for water quality
- Multi-parameter sampler calibration standards
- Ice, dry (approximately 15 lbs per day of trip per cooler plus extra)
- Ice, regular, "wet"
- Insect repellent
- Keys, identification, for invertebrates and fishes
- Labels, (waterproof, pre-printed)
- Maps
- Markers, fine-tip, alcohol/solvent resistant
- Markers, wide-tip, alcohol/solvent resistant
- Personal Flotation Device
- Phone
- Phone numbers, emergency
- Protocol (on water-resistant paper)
- Shipping paperwork (instructions, lab submission forms, pre-printed FedEx labels, dry ice stickers)
- Signs (road/safety)
- Sunscreen
- Table, folding
- Tape, flagging, biodegradable
- Tax exempt forms
- Tape, clear, 2", for shipping
- Travel authorization
- Tray or tub, large (for dishwashing/storage)
- Trays, plastic, large (for cleaning equipment)
- Trays, plastic, shallow (for weighing fish)
- Towels, lint-free, clean-room grade
- Towels, paper rolls
- Traffic cones
- Trash bags, heavy duty
- Waders
- Wader repair kit
- Wash Bottles (500 mL, Teflon®; 1, tap water; 1, DI water; 1, dilute HCl; 1, dilute detergent)
- Water, high-purity DI
- Water, tap

## Equipment and supplies used for U.S. Geological Survey mercury studies of invertebrates and fish—Continued.

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INVERTEBRATES	FISH
<b>Sampling Gear</b> <input type="checkbox"/> Dipnet, D-frame <input type="checkbox"/> Forceps, plastic <input type="checkbox"/> Gloves, powder-free (nitrile, vinyl, other non-latex) <input type="checkbox"/> Sieves, plastic, 12-inch (coarse, 6-mm mesh) <input type="checkbox"/> Sieves, plastic, 12-inch (500-micron mesh)	<b>Sampling Gear</b> <input type="checkbox"/> Aerators, battery-operated <input type="checkbox"/> Batteries or fuel for electrofishing unit <input type="checkbox"/> Buckets, 10 gallon <input type="checkbox"/> Electrofishing unit (backpack/towed/boat) <input type="checkbox"/> Gloves, rubber, safety (insulated) <input type="checkbox"/> Polarizing sunglasses <input type="checkbox"/> Live well or net <input type="checkbox"/> Nets, large dipnet <input type="checkbox"/> Nets, small <input type="checkbox"/> Seine (1/4 to 1/2-inch maximum mesh)
<b>Sample Processing</b> <input type="checkbox"/> Bags, plastic, heavy-weight, zipper-seal, 1 L <input type="checkbox"/> Counters, hand-held <input type="checkbox"/> Forceps, plastic <input type="checkbox"/> Gloves, powder-free (nitrile, vinyl, other non-latex) <input type="checkbox"/> Ice cube trays (4), for sorting invertebrates <input type="checkbox"/> Vials with caps, plastic, 20 mL (e.g., PETE or PP) <input type="checkbox"/> Magnifying glass/hand lens <input type="checkbox"/> Scale, top-loading, accuracy to 0.01 g <input type="checkbox"/> Trays, plastic, shallow (for picking invertebrates) <input type="checkbox"/> Table cloths, plastic, medium weight	<b>Sample Processing</b> <input type="checkbox"/> Anesthetic CO <sub>2</sub> tablets (e.g., AlkaSeltzer <sup>®</sup> ) <input type="checkbox"/> Bags, plastic, heavy-weight, zipper-seal, 1 L <input type="checkbox"/> Bags, plastic, heavy-weight, zipper-seal, 4–8 L <input type="checkbox"/> Cutting sheet/mat/board, plastic <input type="checkbox"/> Forceps, plastic <input type="checkbox"/> Gloves, powder-free (nitrile, vinyl, other non-latex) <input type="checkbox"/> Knives, filleting <input type="checkbox"/> Measuring board (non-metallic) <input type="checkbox"/> Pliers, needle-nose <input type="checkbox"/> Rulers, 6-inch plastic <input type="checkbox"/> Scale, top-loading, accuracy to 0.01 g <input type="checkbox"/> Scale, top-loading, accuracy to 0.1 g <input type="checkbox"/> Scale, hanging or hook, for large fish <input type="checkbox"/> Scalpels, high-grade stainless <input type="checkbox"/> Scissors, dissecting, high-grade stainless steel <input type="checkbox"/> Tin snips, small, for otolith extraction <input type="checkbox"/> Vials with caps, plastic, 20 mL, PETE or PP