

Recommended Sampling Procedures for Chickasaw Park Pond Fishes for Determining Potential Tissue Contaminant Accumulation.

- Stocking will be conducted by Kentucky Department of Fish and Wildlife Resources (KDFWR) once renovation is complete and pond refills. Fingerling bluegill and channel catfish to be stocked in the fall, with largemouth bass stocked following spring.
- Suggest a catch and release only fishery until sampling and analysis is complete.
- Fish will be sampled 3-5 years after stocking is completed. Sampling will be initiated after July 1st of target year.
- Division of Water (DOW) will sample the pond for target species for consumption advisory testing (Mercury (Hg), Polychlorinated biphenyls (PCBs), other metals and organics) along with dioxin/furan testing, with assistance from KDFWR. Predators (10 Largemouth bass ≥ 12 (with all individuals within 75% of largest specimen's total length)", panfish (bluegill, 10 with length of all individuals within 75% of largest specimen's total length) and bottom feeders (channel catfish, 10 of largest caught with all individuals within 75% of largest specimen's total length).
- Samples collected by DOW for Dioxin/Furan will be analyzed by outside lab contracted with Louisville Metro Parks & Recreation.
- Fish will be collected via boat electrofishing. Fish needed for the study will be kept in a live well and any non-target fish or excess numbers of targeted species will be released back into the pond. Tandem hoop nets can be set by KDFWR a couple days prior to electrofishing sample to assist with collecting catfish. Selected fish will be placed in coolers and iced over for transport.
- If 10 fish from a target group cannot be achieved then max number of fish kept shall be enough to make two equal numbered composites. For example if only 9 fish can be collected then the smallest individual shall be released so 2 four-fish composites can be made.
 - Fish total length and weight will be measured and recorded by DOW staff and sample numbers will be assigned by staff for record keeping and tracking.
 - Whole body fish samples will be taken back to DOW processing lab and filleted within 24hrs of collection. Right fillets will be retained by DOW for use in mercury, PCBs and other metals testing. Left fillets will be compiled into 5-fillet composites (5 left fillets from same species, within 75% of largest specimen length in composite). Fillet composites shall be wrapped in heavy duty aluminum foil (shiny side not in contact with fillet) that prior to use had been rinsed with ultra-pure deionized water and allowed to dry.
 - Catfish and Largemouth bass left fillets will result in 4 samples (two composites of five fish for channel catfish and two composites of five fish for largemouth bass). Bluegill will have a single 5 fish composite for a grand total of 5 composite samples comprised of 3 species.
 - Wrapped samples will be then placed in labeled sterile whirl Pak (or other approved storage vessel indicated by analyzing lab), and then stored in -20°C freezer.
 - Louisville Metro Parks will be contacted and arrangements made to pick up processed samples. Louisville Metro will be responsible for obtaining dry ice and shipping samples overnight to analyzing lab.
- From Test America quote dated 6/19/19 cost per sample would be \$750. 5 samples would cost \pm \$3750. Testing will include %lipids and %moisture, along with Dioxins and Furans: with total toxic equivalency factor (TEQ).