REDISCOVERY OF THE RARE STONEFLY *UTAPERLA SOPLADORA* AT THE TYPE LOCALITY MORE THAN HALF A CENTURY AFTER IT WAS DESCRIBED

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Utaperla sopladora Ricker was named as a monotypic genus and species from a holotype male, with the type locality given as Puffer's Lake, Utah (Ricker 1952). A 2nd specimen from the Yukon River, Dawson, Yukon Territory, Canada was available to Bill Ricker when he named the species. This female paratype was designated as the allotype, and Ricker stated that he had "little hesitation in describing the latter under the same name." Time has borne out the validity of Ricker's statement, since subsequent collections between northern Canada and Utah have produced specimens that all seem conspecific (Gaufin 1964, Gaufin et al. 1972, Ricker and Scudder 1975, Baumann et al. 1977, Stewart and Ricker 1997). Additionally, Ricker (1976) gave the etymology of the binomial name: *Utaperla* means the perlid from Utah, since the type species is from Utah, and *sopladora* is derived from the Spanish word *sopladór* translated as "puffer."

The Puffer Lake (Beaver County, Utah) locality is easily the most southern distribution point for this rare species. Most collections of *U. sopladora* are from much more northern latitudes and usually from high elevations (Ricker and Scudder 1975, Baumann et al. 1977, Donald and Anderson 1977). Ricker (1964) and Nelson and Hanson (1969) speculated that *U. sopladora* was originally a northern species that survived the ice age in unglaciated refugia and subsequently moved southward along the Rocky Mountain chain. The Nevada record (Surdick and Cather 1975) is from the Ruby Mountains near Elko in Elko County, a range which has faunal affinities with the central Rocky Mountains (Nelson and Baumann 1989). Additionally, Surdick and Cather (1975) was a

valuable contribution because it included the description of a mature male nymph. Overall, this species is very poorly known throughout its range, because it is rarely encountered by the average collector. *Utaperla sopladora*, with black color and long cerci, is often mistaken for a member of the family Capniidae. It is not known from Colorado, Arizona, or New Mexico.

Utah presents an interesting picture of the total known distribution of *U. sopladora*. It was found to occur sporadically in the Raft River Mountains of extreme northwestern Utah (Houseman and Baumann 1997). These mountains are located in the Columbia Plateau region, which is the only portion of the state that drains into the Columbia River drainage. Besides the type locality in the Beaver Mountains, *U. sopladora* was only recorded at 1 other site in southern Utah (Call and Baumann 2002): a single female was found at the headwaters of Thistle Creek on the Wasatch Plateau. Although major efforts were made to re-collect this species near Puffer Lake, no specimens were found. Thus, in July 2005 it was a great benefit to collect 6 males and 2 females at Lake Stream approximately 1 km above where it enters Puffer Lake at 38°19'N, 112°21'W. This confirms its presence at the type locality 62 years after the type was collected by George Knowlton (Ricker 1952). The collection site is in Fishlake National Forest, but access is through private land and permission is required. The only other known Utah records of *U. sopladora* are from the Uinta Mountains at the headwaters of the Provo River, the Bear River, and the Blacks Fork of the Green River. Interestingly, although the Wasatch Mountains of northern Utah are probably the most heavily collected mountains

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in North America for Plecoptera, this species has never been recorded. Early efforts by James Needham and George Knowlton, near Utah State University, Logan (Needham and Christensen 1927); studies by Arden Gaufin and colleagues at the University of Utah, Salt Lake City (Gaufin et al. 1966); and extensive collecting by myself, colleagues, and students at Brigham Young University, Provo, Utah, have all failed to produce a single specimen from the Wasatch Mountains.

The genus *Utaperla* currently includes 3 species: *Utaperla sopladora* Ricker (1952), western North America; *Utaperla orientalis* Nelson and Hanson (1969), China; and *Utaperla gaspesiana* Harper and Roy (1975), northeastern North America.

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