Vermont Creek (WBIC 1249200) New Zealand Mudsnail (*Potamopyrgus antipodarum*) Verification

presentation by

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Label from Vermont Creek vial.

Collector: Adler Waterbody: Vermon+ Creek

Date: 07-03-2023 WBIC: 1249200

Phone #: 608-712-4306 County: Dane

PRESERVATIVE ADDED - ETOH 95%



Snail collection from Vermont Creek. A seventh specimen held a gas pocket and refused to maintain position for this photograph. Future slides will focus on the first specimen in row.

Focused specimen.

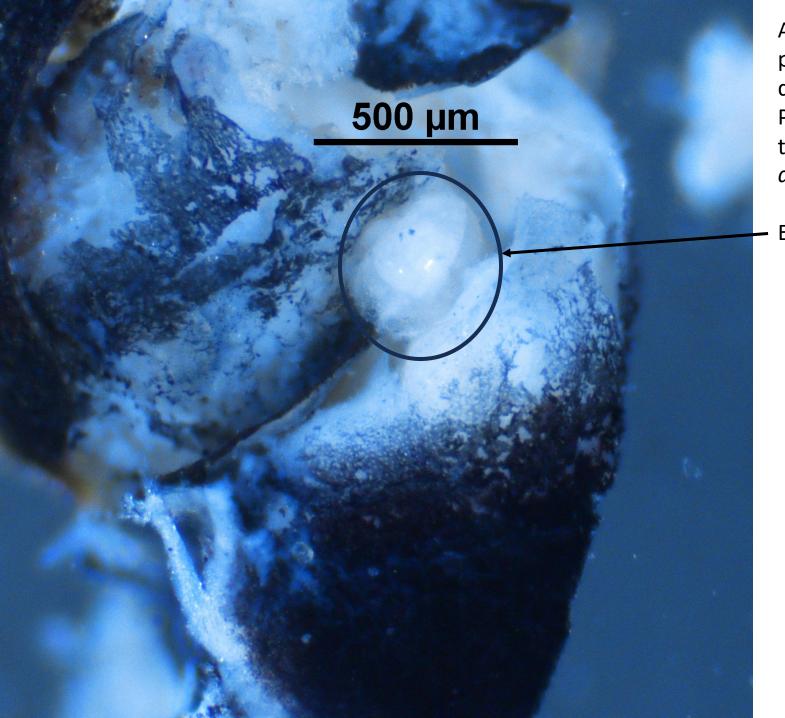


Initial specimen crack. Pallial oviduct displays as whitish mass and will be dissected to examine contents. Operculum still attached to body mass, needs to be removed, cleaned, and examined.

-Operculum

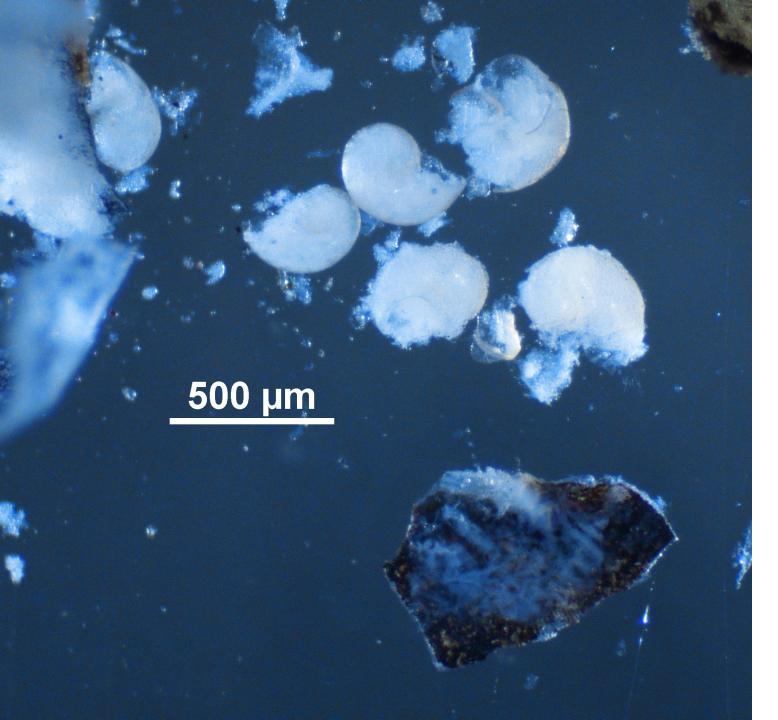
Pallial oviduct

This specimen was easy to crack, one of the easiest cracks I've had. Shell was not rugged.

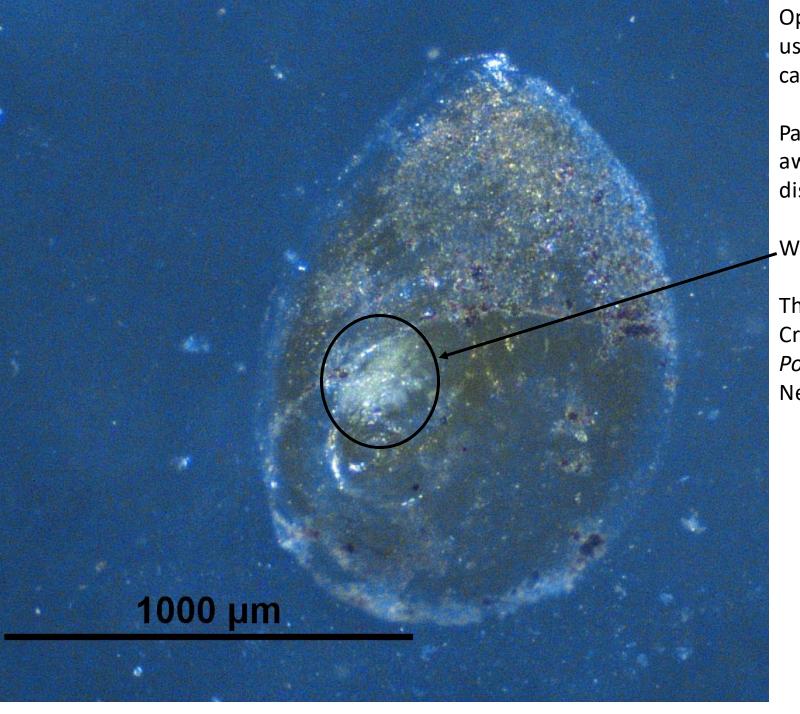


Additional manipulation of body mass to expose pallial oviduct caused an embryonic specimen to display. It appears as a round glabrous object. Presence of embryonic specimens in oviduct was the classic characteristic to determine *P. antipodarum*.

Embryo



Six embryos dissected from pallial oviduct. Bottom right and second from left are oriented spire up. All other embryos are oriented spire down. Apertures (shell openings) are prominent on top right and middle bottom. Note eyespots visible in left three specimens.



Operculum cleaned. Thorp and Rogers (2016) used paucispiral operculum with white calcareous smear to determine *P. antipodarum*.

Paucispiral means spiral structure "fanning out" away from a central nucleus. Spiral structure displays in clockwise fashion.

.White calcareous smear.

This specimen and all others in this Vermont Creek collection were determined to be Potamopyrgus antipodarum, commonly called New Zealand mudsnail.