[EXTERNAL] Re: Update to the NPS Expanded Nonnative Aquatic Species Management Plan - species risk assessment (Appendix F)

Jeffrey Sorensen < jsorensen@azgfd.gov>

Wed 8/25/2021 4:52 PM

To: Healy, Brian BH < Brian_Healy@nps.gov>

1 attachments (814 KB)

MBI_2021_Oliver_etal - low dose EarthTecQZ effectiveness on NZMS.pdf;

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Thanks, Brian. This is a great compilation of species for risk assessment! Thank you for updating and sharing this. I remember reading somewhere that red-rim melania snails are intolerant of cold water. Sorry, I don't recall who wrote that article. We find them in high abundance in the lower Salt River below Stewart Mountain Dam and into our SRP canal system. Insidious little snails! Likewise, we have had positive eDNA detections of New Zealand mudsnails in Oak Creek from the confluence of West Fork Oak Creek down to Page Springs Hatchery. The mudsnails had infected a couple of our hatchery raceways in late 2019, but we were successful in eradicating them after a 30-day low dose copperbased molluscicide treatment (see attached journal article). We have island applesnails in the lower Salt River (below Coon Bluff), the lower Verde River (from Rio Verde down to the confluence with the Salt River), some of our SRP canals, and several of our urban fishing lakes in the Phoenix area. We're working on a Nongame tech report to summarize applesnail distribution and survey results over the past 10 years. Still several months out before we finish that report. Remind me later, and I'll send you a copy of that finished report. Take care!

On Wed, Aug 25, 2021 at 4:27 PM Healy, Brian BH < Brian Healy@nps.gov > wrote:

Hello All,

We have made a few changes to an appendix (F) in the NPS Expanded Nonnative Aquatic Species Management Plan that outlines the risk each species poses to native fish in Grand Canyon NP and to rainbow trout in Glen Canyon NRA. The plan allows for annual review and updates of this appendix based on new information. We've developed a short paper explaining the changes that have been made for each species, which are based on new information related to distribution, abundance, and published research related to threats to resources of management concern. These changes were made following a review of the literature and requests for review by biologists with the USGS-GCMRC, Arizona Game and Fish Department, US Fish and Wildlife Service, and Bureau of Reclamation. It is important to keep this information up-to-date to inform our management response in case new invasions or changes in abundance of invasive species occur.

Please let me know if you have any questions.

Thank you so much for your interest in management of aquatic species in Glen Canyon NRA and Grand Canyon NP!

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