MS Thesis Department of Environmental Science and Policy College of Science George Mason University

Candidate: Kimberly Todd Defense Date and Time: July 1, 2024 at 11:00am Defense Location: Hybrid – Exploratory Hall 3301 and virtual Title: Translocating swift foxes (*Vulpes velox*): Insights on personality, stress, and success

Thesis Director: Dr. Elizabeth Freeman **Committee:** Dr. David Luther, Dr. Hila Shamon, Dr. Nucharin Songsasen

ABSTRACT

Conservation translocations—the intentional movement of organisms from one site to another—can bolster species and ecosystem recovery but are prone to failure due to low postrelease survival. More research is needed to understand how individual characteristics like behavior and physiology contribute to translocation outcomes. We investigate relationships among bold (risk-taking) personality, biomarkers of stress, post-release movement, and survival using an ongoing swift fox (*Vulpes velox*) reintroduction program as a case study. Our research is the first to incorporate stress physiology into swift fox conservation measures and can inform future translocations for other species of conservation concern.