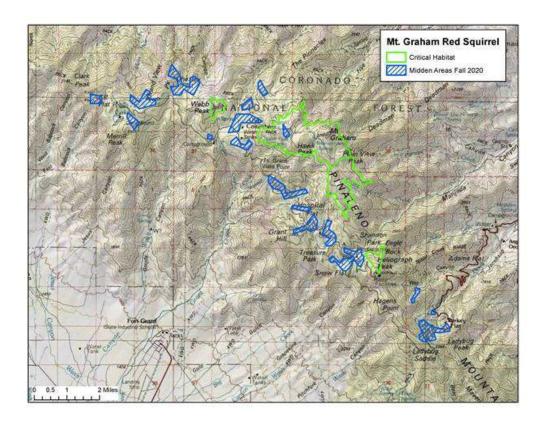
1 Brian Segee (Cal. Bar No. 200795) Center for Biological Diversity 226 W. Ojai Ave., Ste. 101-442 3 Ojai, CA 93023-3278 Phone: (805) 750-8852 4 Email: bsegee@biologicaldiversity.org 5 Pro Hac Vice Application Pending 6 Attorney for Plaintiff 7 8 IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF ARIZONA 9 **TUCSON DIVISION** 10 11 Center for Biological Diversity, a Case No.: non-profit organization; Maricopa 12 Audubon Society, a non-profit COMPLAINT FOR DECLARATORY 13 organization, AND INJUNCTIVE RELIEF 14 Plaintiffs, 15 v. 16 17 U.S. Fish and Wildlife Service; Deb Haaland, in her official capacity as 18 Secretary of the Interior, 19 Defendants. 20 21 INTRODUCTION Plaintiffs Center for Biological Diversity ("Center") and Maricopa 22 1. Audubon Society challenge, pursuant to the Endangered Species Act ("ESA") and the 23 Administrative Procedure Act ("APA"), the U.S. Fish and Wildlife Service's ("FWS") 24 unreasonable delay in proceeding with a proposed rule to revise existing critical habitat 25 for the endangered Mount Graham red squirrel (Tamiasciurus hudsonicus grahamensis). 26 27 2. Mount Graham red squirrels are a native species found only in the Pinaleño Mountains of southeast Arizona. They are a sub-species of the North American

red squirrel, distinguished by a smaller body and narrower head, but sharing the same brownish-red sides and white belly. Believed to be extinct in the 1960s, the Mount Graham red squirrel was "rediscovered" in the 1970s and listed as endangered in 1987.

- 3. FWS designated critical habitat for the Mount Graham red squirrel on January 5, 1990. 55 Fed. Reg. 425. This designation is limited to high elevation spruce-fir forests in the Pinaleño Mountains within the Coronado National Forest (centered around Hawk Peak-Mount Graham, Heliograph Peak, and Webb Peak). However, since that time nearly all the upper elevation spruce-fir habitat has been degraded or destroyed by telescope construction, wildfire (and related intentional "back burning" to protect the telescopes), drought, insect outbreaks, and other ecological changes influenced by climate change.
- 4. Due to this habitat loss of old-growth canopied habitat, the Mount Graham red squirrel population is now isolated in the tiny islands of remnant canopied forest that are widely separated from each other, and has become critically endangered, plummeting to as few as 35 animals in 2017. In 2021, 156 animals were located, with the increase largely attributed to a new, more accurate survey method. However, the most recent 2023 fall survey only detected 144 individuals. Even with this slight population increase, the Mount Graham red squirrel is the most endangered terrestrial mammal in the United States.
- 5. Lower elevation mixed-conifer forests, long recognized as important to the species, now serve as refugia from the destruction of spruce-fir habitat and, for the foreseeable future, are essential to the species' continued survival. Today, surviving squirrels are found primarily in four areas (Grant Hill, Riggs Lake, Turkey Flat, and Columbine), all outside of the upper elevation spruce-fir forests currently designated as critical habitat.
- 6. To address these changing circumstances and the dire status of the Mount Graham red squirrel, on December 14, 2017, Plaintiffs petitioned for revision of the existing critical habitat to include these lower elevation mixed-conifer forests and other

essential areas. The following map shows the currently designated Critical Habitat outlined in green with the currently occupied Mount Graham red squirrel areas found outside of the currently designated Critical Habitat in 2020 where the locations of the current squirrels and middens have not changed substantively:



- 7. Despite the squirrel's highly imperiled status, FWS has failed to timely respond to the petition, which was submitted more than six years ago, at every turn.
- 8. FWS first delayed its initial response to the petition, the "90-day finding," which was required in March of 2018. When FWS had still not issued the 90-day finding more than a year later, on April 16, 2019, Plaintiffs sued in this Court to compel the decision. *Center for Biological Diversity, et al. v. Bernhardt, et al.*, Case No.: 4:19-cv-00218-RCC. FWS finally published the required initial determination on September 6, 2019, finding that Plaintiffs' petition presents substantial scientific or commercial information indicating that the petitioned action may be warranted. 84 Fed. Reg. 46,927.

- 9. Once FWS makes a positive 90-day finding, it must then make a subsequent determination as to how "to proceed with the requested revision" and publish that determination in the Federal Register within 12 months. 16 U.S.C. § 1533(b)(3)(D)(ii).
- 10. After more than an additional year had passed without action, on November 30, 2020, Plaintiffs again sued in this Court. *Center for Biological Diversity, et al. v. Bernhardt, et al.*, Case No.: 4:20-cv-00525-LCK. On April 12, 2021, the parties entered into a Stipulated Settlement Agreement requiring FWS to submit the well-overdue 12-month finding to the Office of the Federal Register for publication no later than July 29, 2021. Dkt. No. 18.
- 11. The required 12-month finding was published on August 3, 2021. 84 Fed. Reg. 46,927. In that finding, FWS stated that it "intend[s] that any revisions to critical habitat ... be as accurate and comprehensive as possible," and that first completing a Species Status Assessment ("SSA") and revised recovery plan "will inform" such revisions. The finding further states that "[o]nce that SSA and revised recovery plan are complete, a rulemaking process will be initiated if revisions to the subspecies' critical habitat are determined to be appropriate."
- 12. More than 2 ½ years of additional time have now passed, again without any voluntary action by FWS to conclude its action on Plaintiffs' petition. During this time, FWS has made no discernible progress in finalizing an SSA or revising the recovery plan. Despite the already lengthy delay, critical habitat revision for the squirrel is not included on the FWS's most recent five-year section 4 workplan for 2023-2027.
- 13. The APA requires administrative agencies to conclude matters presented to them "within a reasonable time" and empowers reviewing courts to "compel agency action unlawfully withheld or unreasonably delayed." 5 U.S.C. §§ 555(b), 706(1). FWS's ongoing failure to initiate rulemaking to revise critical habitat for the Mount Graham red squirrel constitutes unreasonable delay, and Plaintiffs accordingly seek declaratory and injunctive relief requiring FWS to conclude action on Plaintiffs' petition

by publishing a proposed critical habitat revision rule within six months of the Court's Order.

JURISDICTION AND VENUE

- 14. This Court has jurisdiction over this action pursuant to 5 U.S.C. § 702 (APA review); and 28 U.S.C. § 1331 (federal question jurisdiction).
- 15. The Court may grant the relief requested under the APA, 5 U.S.C. §§ 701–706; and 28 U.S.C. §§ 2201 and 2002 (declaratory and injunctive relief).
- 16. Although not required by law, Plaintiffs provided sixty (60) days' Notice of their intent ("NOI") to file this suit as a courtesy, by letter to FWS dated July 19, 2023. FWS has not responded to or acknowledged Plaintiffs' NOI.
 - 17. An actual controversy exists between the parties under 28 U.S.C. § 2201.
- 18. Venue is proper in the United States District Court for the District of Arizona pursuant to 28 U.S.C. § 1391(e) because a substantial part of the events or omissions giving rise to the Center's claims occurred in this District. Additionally, the Center resides in Tucson, Arizona.

PARTIES

- 19. Plaintiff CENTER FOR BIOLOGICAL DIVERSITY is a non-profit environmental organization dedicated to the protection of native species and their habitats through science, policy, and environmental law. The Center is headquartered in Tucson, Arizona, with offices throughout the United States, as well as an office in Mexico. The Center currently has 79,143 members. The Center and its members are dedicated to the conservation of imperiled species, including the Mount Graham red squirrel, and with the full and effective implementation of the Endangered Species Act. The continuing decline and near extinction of the Mount Graham red squirrel has prompted the Center to act for the species by, among other actions, submitting the petition to revise critical habitat.
- 20. Plaintiff MARICOPA AUDUBON SOCIETY, a chapter of the National Audubon Society located in the Phoenix metropolitan area, is a non-profit environmental

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organization of volunteers dedicated to the enjoyment of birds and other wildlife with a primary focus on the protection and restoration of the habitat of the Southwest through fellowship, education, and community involvement. Maricopa Audubon has over 2,300 members, primarily in central Arizona. Maricopa Audubon has been actively involved in efforts to protect the Mount Graham red squirrel and its habitat since 1988.

- 21. Plaintiffs' members have been involved in Mount Graham red squirrel protection efforts for more than thirty years and include individuals who regularly visit areas within the Pinaleño Mountains which are occupied or formerly occupied by the Mount Graham red squirrel, and who seek to observe or study the squirrel in its natural habitat. Plaintiffs' members and staff derive recreational, spiritual, professional, scientific, educational, and aesthetic benefit from these activities, and intend to continue to use and enjoy these areas in the future.
- 22. Robin Silver is a co-founder and Board member of the Center for Biological Diversity, and a member of the Center and the Maricopa Audubon Society. Dr. Silver has been centrally involved in the effort to protect the squirrel since May 1989, when he spent an extended period observing and photographing the species alongside the Arizona Game and Fish Department and FWS. He subsequently spent time on Mt. Graham documenting the real-time impacts on the squirrel from the construction of the University of Arizona's International Observatory. During the past four decades, he has frequently visited Mt. Graham to observe and photograph the squirrel, including recent trips on November 10, 2022, April 16, 2023, June 28, 2023, and November 1, 2023. His ability to observe and photograph the squirrel has become increasingly difficult during that time, as the squirrel's spruce-fir habitat has been progressively destroyed and the species' population has significantly declined. Dr. Silver authored the petition to revise the squirrel's critical habitat. Dr. Silver has concrete plans to visit the Coronado National Forest to observe and photograph Mount Graham red squirrels in the near future, including this coming summer in July 2024.
 - 23. The above-described aesthetic, recreational, professional, and other

- interests of Plaintiffs and their members, including Dr. Silver, have been, are being, and will continue to be adversely harmed by FWS's unreasonable delay in initiating rulemaking to revise Mount Graham red squirrel critical habitat in response to Plaintiffs' petition. The injuries described are actual, concrete injuries presently suffered by Plaintiffs and their members, and they will continue to occur unless this Court grants relief. The relief sought herein—an Order compelling FWS to initiate rulemaking to revise critical habitat—would redress these injuries. Plaintiffs and their members have no other adequate remedy at law.
- 24. Defendant UNITED STATES FISH AND WILDLIFE SERVICE is the agency within the Department of the Interior that is charged with implementing the ESA for the Mount Graham red squirrel.
- 25. Defendant DEB HAALAND is the Secretary of the United States

 Department of the Interior and is the federal official in whom the ESA vests final
 responsibility for making decisions and promulgating regulations required by and in
 accordance with the ESA, including responses to petitions to revise critical habitat.

 Secretary Haaland is sued in her official capacity.

LEGAL BACKGROUND

- 26. The Endangered Species Act, 16 U.S.C. §§ 1531–1544, is "the most comprehensive legislation for the preservation of endangered species ever enacted by any nation." *TVA v. Hill*, 437 U.S. 153, 180 (1978). Its fundamental purposes are "to provide a means whereby the ecosystems upon which endangered species and threatened species depend may be conserved [and] to provide a program for the conservation of such endangered species and threatened species" 16 U.S.C. § 1531(b).
- 27. ESA section 4 requires that the Secretary protect imperiled species by listing them as either "endangered" or "threatened." *Id.* § 1533(a)(1). A "species" "includes any subspecies of fish or wildlife or plants, and any distinct population segment of any species of vertebrate fish or wildlife which interbreeds when mature." *Id.* § 1532(16).

- 28. FWS is, with limited exceptions, required to designate "critical habitat" concurrently with listing a species as threatened or endangered. *Id.* § 1533(a)(3)(A).
- 29. Critical habitat includes the specific areas occupied by the species with "physical or biological features (I) essential to the conservation of the species and (II) which may require special management considerations or protection." *Id.* § 1532(5)(A). It also includes specific areas unoccupied by the species at the time of listing "upon a determination by the Secretary that such areas are essential for the conservation of the species." *Id.* In turn, "conservation" means "the use of all methods and procedures which are necessary to bring endangered species or threatened species to the point at which the measures provided pursuant to [the ESA] are no longer necessary." *Id.* § 1532(3).
- 30. Protecting a species' critical habitat is crucial for the protection and recovery of listed species, particularly those that have become endangered or threatened due to historic and ongoing habitat loss and/or degradation. When critical habitat is designated, federal agencies must ensure that their actions do not "result in the destruction or adverse modification" of a species' critical habitat. *Id.* § 1536(a)(2).
- 31. FWS maintains ongoing duties with respect to critical habitat. The ESA provides for critical habitat revision, subject to the same "best available scientific data" standard as an initial designation. *Id.* § 1533(b)(2).
- 32. The ESA provides the right to petition for critical habitat revision, in accordance with the APA. 16 U.S.C. § 1533(b)(3)(D)(i)-(ii); 5 U.S.C. § 553(e). The evaluation of such petitions is governed by ESA implementing regulations. 50 C.F.R. § 424.14(c), (e).
- 33. The ESA requires FWS, within 90 days of receiving the critical habitat revision petition, to "make a finding as to whether the petition presents substantial scientific information indicating that the revision may be warranted." 16 U.S.C. § 1533(b)(3)(D)(i).

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34. If FWS makes a positive 90-day finding, it must then make a subsequent determination within 12 months as to how "to proceed with the requested revision" and publish that determination in the Federal Register. *Id.* § 1533(b)(3)(D)(ii).

35. The APA requires administrative agencies to conclude matters presented to them "within a reasonable time" and empowers reviewing courts to "compel agency action unlawfully withheld or unreasonably delayed." 5 U.S.C. §§ 555(b), 706(1).

FACTUAL BACKGROUND

I. The Mount Graham Red Squirrel

- 36. The Mount Graham red squirrel is found nowhere else in the world besides the Pinaleño Mountains in southeast Arizona. Named after the highest peak in the range, the squirrel has been isolated from other squirrel subspecies since the last ice age, approximately 10,000 years ago.
- 37. Renowned for its ferocious protection of its home territories, the Mount Graham red squirrel is smaller than most other red squirrel subspecies, weighing in at only 8 ounces and measuring about 8 inches in length. The squirrel's diet consists primarily of conifer seeds, and during the winter it relies upon seed-bearing cones that have been stored at sites known as middens. These caches, also called squirrel refrigerators, are the focal point of the individual squirrel's territory, and are typically located in logs, snags, stumps, or a large live tree. The condition of these midden sites must remain cool and moist to preserve the cached cones.
- 38. The Mount Graham red squirrel was first described in 1884 and was reportedly common around the turn of the 20th century. The species was, however, declining by the 1920s and rare by the 1950s, likely due to destruction of forested habitat from logging and competition with an introduced population of Abert's squirrels.
- 39. Small scale logging activity began in the Pinaleño Mountains in the 1880s and accelerated in the 1930s. In the early 1960s, road construction had reached Mount Graham (High Peak) and by 1973, the majority of accessible ancient forests had been logged, greatly reducing the age structure, density, and quality of the squirrel's habitat.

- 40. From 1963 to 1967, researchers were unable to locate any remaining Mt. Graham red squirrels, but some were reported shortly thereafter by Forest Service personnel, and in the early 1970s at least four red squirrels were recorded by Arizona Game and Fish Department and Forest Service personnel.
- 41. In a 1984-85 status survey funded by FWS, researchers located the Mount Graham red squirrel or its sign at 16 locations in the Pinaleño Mountains and estimated its population to be 300-500 animals. These estimates were later revised downward, to approximately 280 squirrels.

II. Listing and Designation of Critical Habitat Under the Endangered Species Act

- 42. FWS proposed listing the Mount Graham red squirrel as an endangered species and designating critical habitat on May 21, 1986, 51 Fed. Reg. 18,630, and issued a final listing rule on June 3, 1987. 52 Fed. Reg. 20,994.
- 43. Like all subspecies of red squirrels, the Mount Graham red squirrel is an arboreal species. At the southern extremity of the red squirrel range, the Mount Graham red squirrel is restricted to canopied montane forests.
- 44. At the time of its listing, the squirrel was found at highest densities in Engelmann spruce and corkbark fir forests, comprising 86 percent of all middens surveyed, with 48 percent of the species' active middens located above 10,200 feet in elevation. In total, FWS estimated there to be 680 acres of contiguous spruce-fir forest in the Pinaleño Mountains, with an estimated density of one red squirrel per 8 acres.
- 45. The squirrel was also found below 9,200 feet in elevation at the time of listing, with an estimated density of one red squirrel per 124 acres.
- 46. In the final listing rule, FWS recognized the proposed construction of a major astrophysical facility on Mount Graham by the University of Arizona ("UA") as a primary threat to the squirrel. 52 Fed. Reg. at 20,997. FWS identified numerous potential negative effects of telescope construction, including removal of vegetation resulting in decreased food sources; increased blow-down of trees caused by the opening of forested

areas; changes in the microclimatic conditions necessary for middens; increased vulnerability to predation; decreased reproductive interaction due to increased habitat fragmentation and population isolation; and increases in tourism, recreational use, and traffic. *Id*.

- 47. The final listing rule noted that due to its isolation and restricted population size and distribution, "the Mount Graham red squirrel is particularly vulnerable to any disturbance that might bring about further declines in its already precariously low numbers and weakening of genetic viability." *Id.* at 20,998.
- 48. FWS designated critical habitat for the Mount Graham red squirrel on January 5, 1990. 55 Fed. Reg. 425. The designation totals approximately 2,000 acres in three areas—all located in high elevation, spruce-fir forest—Hawk Peak/Mount Graham, Heliograph Peak, and Webb Peak. These areas contained about 70 percent of all known squirrel middens.
- 49. In comments on the draft listing and critical habitat rule, FWS was asked to enlarge the critical habitat to include additional occupied and unoccupied areas, including the lower elevation mixed-conifer forests "where red squirrels have been previously observed and where they appear to have survived their most vulnerable period in history." *Id.* In declining the recommendation, FWS reasoned that the "higher elevations appear[] to be the most important to this squirrel and contains the highest density of squirrel middens." *Id.*
- 50. In addition, UA objected to the inclusion of the 150-acre Mt. Graham International Observatory Site. FWS refused to exclude this area, noting that it was "composed largely of excellent habitat," and that "[e]xcellent habitat is in short supply for this species, totaling only four percent of the total habitat." *Id*.

The following is a photograph of Mount Graham on October 10, 1989, with its summit carpeted by intact canopied spruce-fir forest. © Robin Silver



III. Post-Listing Habitat Destruction and Population Decline

- 51. In 1988, Congress passed the Arizona-Idaho Conservation Act. Pub. L. No. 100-696, 102 Stat. 4571. The Act included a provision exempting telescope construction from compliance with section 7 consultation requirements under the ESA. *Id.*, Title VI, Mount Graham International Observatory. Subsequently, three telescopes and associated roads and infrastructure have been constructed on and near Emerald Peak—the UA Columbus or Large Binocular Telescope, the Vatican Advanced Technology Telescope, and the German Max Plank Submillimeter Telescope.
- 52. As the Ninth Circuit Court of Appeals held in its decision reluctantly finding that the Act exempted telescope construction from ESA requirements:

"The possible extinction of an endangered species is not a threat that we take lightly. If the Mount Graham Red Squirrel becomes extinct as a result of the astrophysical research project, then the new

telescopes will not represent an unqualified step forward in our quest for greater knowledge. As we expand our horizons by building bigger and better telescopes, we would do well to remember that we also have much to learn from the plant and animal life in the world around us. By contributing to the extinction of an endangered species, we limit our horizons at least as seriously as we do by delaying or even disallowing the construction of new telescopes . . . We can only hope that Congress's decision will prove to be a wise one."

Mount Graham Red Squirrel v. Madigan, 954 F.2d 1441, 1463 (9th Cir. 1992).

- 53. In addition to the direct and indirect destruction of habitat essential to the Mount Graham red squirrel resulting from telescope construction, the high elevation spruce-fir forests of the Pinaleño Mountains have experienced significant ecological changes, including large, high-severity fires, extended drought, and outbreaks of forest insects.
- 54. Firefighting efforts to protect the telescopes have further compounded the loss of Mount Graham red squirrel habitat. As observed by the Forest Service in 2010, the telescopes "have precipitated aggressive firefighting techniques, and inhibited the restoration of natural ecosystem processes." Final Environmental Impact Statement for the Pinaleño Ecosystem Restoration Project, U.S. Forest Service Southwestern Region (February 2010).
- 55. In 1988, approximately 615 suitable acres of the estimated 680 historical acres of pure spruce-fir forest remained.
- 56. In 1996, the Clark Peak Fire destroyed 50 percent of squirrel middens within the burned area.
- 57. In 2004, a population survey estimated that 550 red squirrels remained, but later that year the Nutall-Gibson Complex Fires burned approximately half of the species' designated critical habitat. On August 4, 2004, 250 acres of spruce-fir critical habitat was inappropriately and unnecessarily burned by USFS firefighters. Subsequently, between 2004 and 2017 the population was significantly reduced, but then remained relatively stable between 200 and 350 squirrels.
- 58. In 2017, the Frye Fire burned approximately 78 percent of the squirrel's habitat, resulting in a precipitous drop in the squirrel population to a mere 35 animals.

59. Today, it is estimated that only 34.6 acres of high elevation, essential spruce-fir habitat remains. Consequently, most, if not all, Mount Graham red squirrels are found in lower elevation, mixed conifer forest outside their designated critical habitat.

60. The latest population survey, conducted in fall 2023, determined that the Mount Graham red squirrel population currently stands at 144 animals.

Below is a photograph of the Mount Graham summit on November 7, 2010, with most of the historical spruce-fir canopied forest destroyed on with telescopes present.© Robin Silver.



IV. The Petition to Revise Critical Habitat

- 61. On December 14, 2017, Plaintiffs petitioned for revision of the existing critical habitat.
- 62. Even prior to the widespread loss and destruction of the high elevation spruce-fir forests, the lower elevation, mixed-conifer forests have long been recognized as important to the continued survival and recovery of the Mount Graham red squirrel.

Plaintiffs incorporate all preceding paragraphs by reference.

to make a determination as to how the agency intends "to proceed with the requested

In responding to a petition to revise critical habitat, the ESA requires FWS

Complaint for Declaratory and Injunctive Relief

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- petition—FWS stated that "if appropriate" it would proceed with the petitioned critical habitat revision after completing an SSA and revised Recovery Plan. FWS did not explain why it needed to complete these actions before proceeding with any critical habitat revision. Nor did it set forth any timetable for when an SSA and revised Recovery Plan would be completed, let alone when a critical habitat revision might proceed.
- 70. More than 2 ½ years of additional time have now passed without any action by FWS to finalize an SSA, revise the recovery plan, or conclude its action on plaintiffs' petition.
- Despite the already lengthy delay, critical habitat revision for the Mount 71. Graham red squirrel is not included on the FWS's most recent five-year section 4 workplan for 2023-2027.
- 72. The APA requires administrative agencies to conclude matters presented to them "within a reasonable time" and empowers reviewing courts to "compel agency action unlawfully withheld or unreasonably delayed." 5 U.S.C. §§ 555(b), 706(1).
- 73. FWS's ongoing failure to initiate rulemaking to revise critical habitat for the Mount Graham red squirrel, or even to make a final determination on whether it is "appropriate" to revise the critical habitat, constitutes unreasonable delay in concluding the petitioned action presented to it, in violation of the APA.
- 74. Plaintiffs and their members are injured by FWS's failure to initiate the petitioned rulemaking to revise critical habitat. An Order of the Court directing FWS to make this required finding by a date-certain would redress Plaintiffs' injuries.

REQUEST FOR RELIEF

Wherefore, Plaintiffs respectfully request that the Court:

Declare that Defendants violated the ESA and APA by unreasonably delaying either initiating rulemaking in response to Plaintiffs' petition to revise critical habitat for the Mount Graham red squirrel or, alternatively, making a final decision not to revise the designation,

- 2. Order FWS to conclude action on Plaintiffs' petition by either (1) publishing a proposed critical habitat revision rule; or (2) issuing a final decision not to revise the critical habitat, within six months of the Court's Order,
- 3. Grant Plaintiffs their reasonable attorneys' fees and costs associated with this action, as provided by Equal Access to Justice Act, 28 U.S.C. § 2412; and
- 4. Provide such additional relief as the Court may deem just and proper. Respectfully Submitted this 19th day of March, 2024.

s/ Brian Segee

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