November 3, 2022

Recipient Name Organization Name Address

Dear (Prefix) (Surname):

The undersigned veterinarians, animal protection groups, and scientists urge you to prioritize the use of trap-neuter-return (TNR) in all matters relating to the management of feral cat populations.

TNR is the process of trapping, spaying/neutering, vaccinating against rabies and other diseases, and then returning the cats back to their outdoor homes. TNR stops the breeding cycle of outdoor cats and causes their numbers to decrease naturally over time. Eradication is *less effective* and *more costly* than TNR.

Catching and killing cats is a temporary solution. Though it may result in fewer cats within a target area quickly, the feral cat population will unquestionably rebound. A primary weakness of eradication programs, especially those on a large scale, is that it is close to impossible to determine if all targeted subjects have been killed, let alone identified, and when they are not, the breeding cycle will repopulate the area. A mistaken assumption that eradication is complete when it really isn't can have disastrous consequences: "the species can bounce back and even expand its range, causing environmental and economic damage, and rendering the initial eradication campaign redundant" (Rout et al., 2013). Subsequent eradication campaigns will be necessary, increasing the cost of ridding an area of cats. Note that cats are especially prolific breeders and can reproduce at as young as four months of age, so a handful of undetected, unsterilized cats can multiply more quickly than many other species.

When cats are trapped and removed from an area, new cats quickly move in to fill the vacated territory and take advantage of the resources that had been sustaining the cats there before them and start the breeding process all over again. This phenomenon was discovered by British biologist Roger Tabor and is referred to as the "vacuum effect" (Tabor, 1983). In contrast, if a colony of cats is "neutered and returned to its area it will continue to hold the location and keep other cats out by its presence" (Tabor, 1995).

Take as an example the 2015 study conducted by Lazenby et al. in the forests of Tasmania, Australia, where "low-level culling of feral cats" actually caused an *increase* in the number of cats in the area, despite the initial illusion that there was a decrease in population. Over the course of 13 months, researchers attempted to "simulate the resource-effort that typically might be available to and expended by natural resource managers," which entailed trapping cats and shooting them in the head (Lazenby et al., 2015). At the end of the study, researchers noted a significant *increase* in feral cat numbers with an average of 75 percent at one site and 211 percent at the other site. It was

also noted that "cat numbers fell, and were comparable with those in the pre-culling period, when culling ceased" (Lazenby et al., 2015).

Eradication is, as explained, most often ineffective; it can also be counterproductive by upsetting the balance between nonnative predator and prey species that has developed over time in isolated environments, such as islands. This often has catastrophic consequences for local ecosystems. As Dr. Niels Pedersen, Director of the Center for Companion Animal Health at the University of California-Davis, explains, "What people don't understand is that cats are the dominant carnivore in almost all human-oriented ecosystems...Every attempt to take cats out of the equation has led to disastrous ecological shifts as far as buildup of rodents as well as other over-populated species."

In 1997, the majority of the cat population on Macquarie Island was culled, with the result that the rat and rabbit populations exploded, devastating the landscape. Rats fed on baby birds and eggs, decimating ground-nesting bird populations that the cat culling was meant to protect (Strickland, 2009). Rabbits destroyed the island's vegetation, which resulted in decreased materials for birds to build nests and left the native penguin population exposed and more susceptible to predators. Scientists then spent seven years eradicating the rats, mice, and rabbits to combat their increased predation on birds (Strickland, 2009; Australian Department of the Environment, 2009).

On Wake Atoll, part of the Pacific Islands, a U.S. military nearly eradicated the cat population in 2008 and the rat population subsequently increased dramatically (Rauzon et al., 2008). A 2012 campaign to remove all the rats from the island via poisoned bait failed to completely kill them off. In the years since, resources have been spent on trying to control the rat population and, as recently as February 2022, a final attempt at total eradication has been proposed (Mauser, 2022).

Marion Island provides yet another real-world example of why removing cats from an enclosed ecosystem does more harm than good to that ecosystem. After the 19-year long cat-culling campaign, the mouse population exploded and, as on Macquarie Island under the same circumstances, chicks of endangered bird species began falling prey to the mice (Clifton, 2018). It is worth noting that the mode by which mice or rats kill live chicks is much less efficient than a cats'. Cats kill most of their prey quickly before consuming it, whereas the mice nibble away at the helpless chicks, leaving the unfortunate animals to ultimately die over time from the bite wounds (Clifton, 2018). Now, the same groups that wanted the island's cats eliminated to protect the seabirds is calling for the extermination of all mice from Marion through the "Mouse-Free Marion Project" which claims that doing so will (*Saving Marion Island's Seabirds*). The project is expected to cost \$2.1 million ("Sponsor a Hectacre").

Eradicating feral cats is a futile endeavor that comes with a hefty price tag — at the expense of the taxpayer — and requires decades of continual killing, often followed by further expenses to eradicate rats or other prey animals the cats had kept in check. It took over 15 years and cost AU\$3.5 million (about \$2.5 million USD) to eradicate the 2,500 cats on Macquarie Island (which is only 21 miles long and 3 miles wide), with another AU\$24.7 million (about \$20.2 million USD) allocated to eradicating the rats and rabbits over seven years (Veitch et al., 2011). Marion Island is only 15 miles long and 10 miles wide, yet it took 19 years to kill 3,400 cats (Bester et al., 2002). Additionally, it

cost \$1.3 million to eradicate the cats living on Ascension Island (located in the South Atlantic Ocean), which is only 34 square miles (Veitch et al., 2011). These eradication programs that are deemed "successful" within the scientific community have been carried out on small, isolated islands with little to no human habitation. Attempting to eradicate an entire population of feral cats on a continent, with far more variables and unpredictable outcomes, would be futile.

We hope that you will take the factual evidence into consideration should plans for a feral cat eradication program by any group or legislative body come to your attention.

Please contact Alley Cat Rescue if you need any further information.

Sincerely,

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Appendix: Additional TNR Studies

1) San Francisco, California, USA 2004 - 2020

From published Abstract: " A population of 175 community cats, as determined by an initial census...declined by 99.4% over a 16-year period. After the conclusion of the initial count, the presence of cats was monitored as part of the TNR program's daily feeding regimen. Of the 258 total cats enrolled in the program between 2004 and 2020, only one remained at the end of the program period," (Sephar and Wolf)

2) Key Largo, Florida, USA 1999 - 2013

A study of the effects of a long-term TNR program on the population of outdoor cats in the Ocean Reef Community was done by analyzing cat census data and medical records of the cats. The study found that the number of free-roaming outdoor cats decreased 55% (from 455 cats to 506 cats) over the period covered by the study (Kreisler et al.).

3) Chicago, Illinois, USA 2018

Data collected on the number of cats within colonies where TNR was practiced showed a mean decline of 54 percent from the start of TNR programs and of 82 percent from peak levels (Sephar and Wolf).

4) Rio de Janiero, Brazil, 2004 - 2008

Researchers tested the effectiveness of TNR by sterilizing female cats within a colony and counting the total population of the colony between 2004 through 2008. Female cats were TNR'd and the populations were counted every other year within that time frame. When the study began in 2004, there was an estimated population of 40 cats. In 2006, the population was estimated to be 26 cats, and 17 cats in 2008 (Mendes-de-Almeida et al.)

5) Cook County, Illinois, USA 2008 - 2012

This large-scale TNR effort spanned 23 zip codes and achieved a 42% reduction of the total number of colony cats in five years (Funiak and Michalek). The project decreased the number of cats from 1,329 (as of November 2007) to 788 cats by the end of 2012 (Funiak and Michalek). All cats trapped through the project were vaccinated against rabies as well as sterilized. The project's success was aided by the participation of private nonprofit animal groups that removed and adopted out friendly strays and young kittens.

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