From: Marjorie A. Fox

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Phone: 372-1232 June 18, 2007 One of Oxide in a Christian

2007 JUN 18 PH 3: 10

To: Gainesville City Commission

Mayor Hanrahan and Commissioners Craig, Bryant, Mastrodicasa, Henry,

Braddy and Donovan

Re: Power Plant Decision

6/18/07 #070135

Please consider the information copied here for you from the Winter 2006 issue of Nature Conservancy (Vol. 56 No. 4 Page 15). The evidence is mounting about human created causes of decline of other life forms. We do not need to be scientists to grieve over the escalating speed of the losses or to evaluate our own (human) prospects as this trend continues. I don't know what is our region's need for future energy generation. But educated consumers want conservation and non-polluting sources. I personally do not think coal is the sane answer. If it is, that would only be if the highest (and most expensive) technology were employed to capture the carbon emissions. Choose for the on-going life of birds and people.

MERCURY CONTAMINATES EASTERN SONGBIRDS

Researchers Map "Hot Spots"

n a ridge covered in pitch pines and blueberry bushes in New York's Shawangunk Mountains, researchers set up mist nets, catching a hermit thrush and common yellowthroat. The seemingly pristine setting of Sam's Point Preserve, managed by The Nature Conservancy, masks the disquieting nature of the research: Blood and feather samples taken from the insect-eating songbirds reveal that mercury is accumulating in their bodies.

"Mercury contamination is like the DDT of the 21st century," says biologist Tim Tear of the Conservancy's Global Conservation Approach Team. "The more we look, the worse it gets." Most environmental research on mercury has focused on its increasing levels in aquatic ecosystems. But Tear and avian ecotoxicologist David Evers of the Maine-based BioDiversity Research Institute are showing that mercury is a growing threat on land as well.

Their work builds on a study, published in the March 2005 issue of *Ecotoxicology* and co-authored by Evers, that was the first to document the presence of mercury in four species



Checking the mercury: Researchers take a blood sample from a wood thrush in New York's Catskills,

of songbirds in the northeastern United States and eastern Canada. During the summers of 2005 and 2006, a Conservancy team took samples from 26 species of birds at several Conservancy preserves and more than 20 other sites throughout the Northeast and Southeast. One of the goals is to use the birds' blood mercury levels as a way of mapping contamination "hot spots," and, in turn, demonstrating the need for stricter mercury standards.

According to atmospheric studies, much of the mercury comes from coalfired power plants in the Midwest and is carried on prevailing winds to the Northeast states, where it mixes with water in the environment and is converted to toxic methylmercury through bacterial activity. Scientists believe that methylmercury gets bound in the leaf litter of mountain forests, where it is consumed by insects that are then eaten by the songbirds.

So far, the team has found that of the 26 species in the study, those with the highest mercury levels, such as the wood thrush and Louisiana waterthrush, are experiencing the biggest population declines. The declines may not be caused by mercury alone, the researchers say. Acid rain also is affecting the chemistry of the ecosystem and thus the birds.

Charles Driscoll, an environmental engineer at Syracuse University, studies mercury cycling at some of the same Northeast sites alongside the Conservancy team. Says Driscoll: "Following up on the earlier study on mercury and songbirds and expanding it to more species is intriguing and much-needed work." —Jennifer Uscher