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## THE "BACKGROUND PRINCIPLES" OF NATURAL CAPITAL AND ECOSYSTEM SERVICES—DID LUCAS OPEN PANDORA'S BOX?

## J.B. RUHL\*

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#### I. INTRODUCTION

"When . . . a regulation . . . goes beyond what the relevant background principles would dictate, compensation must be paid to sustain it"1

What are the "relevant background principles" of natural capital and ecosystem services?2 Although there is much yet to be learned about the ecology, geography, and economy of natural capi-

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<sup>\*</sup> Matthews & Hawkins Professor of Property, The Florida State University College of Law, Tallahassee, Florida. I am thankful for the comments I received on early versions of this and related work from Jonathan Adler, Rob Fischman, Eric Freyfogle, Alex Klass, and Jim Salzman, from participants in Florida State's April 2006 Symposium on The Law and Jim Saizman, from participants in Florida State's April 2006 Symposium on the Law and Policy of Ecosystem Services, and from participants in workshops at Florida State and Indiana-Bloomington. Ali Stevens provided valuable research assistance, and the Florida State University College of Law sustained my research through financial and other support. All errors and other deficiencies in this final work product are nonetheless solely my responsibility, thus please direct all comments or questions to jruhl@law.fsu.edu.

thus please direct all comments or questions to jruni@law.isu.edu.

Lucas v. S.C. Coastal Council, 505 U.S. 1003, 1030 (1992).

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Lucas v. S.C. Coastal Council, 505 U.S. 1003, 1030 (1992). ecological resources directly, such as storm surge mitigation provided by coastal dunes and es, and indirectly, such as nutrient cycling that supports crop production. Natural capital consists of the ecological resources that produce these service values, such as forests, riparian habitat, and wetlands. Other articles in this symposium issue provide examples of natural capital and ecosystem services in specific ecological contexts. The primary aim of my contribution is to examine how the common law treats natural capital and ecosystem services in general. Portions of this work also appear in a more extensive examination of the status and future of natural capital and ecosystem services in law, J.B. RUHL, STEVEN KRAFT & CHRISTOPHER LANT, THE LAW AND POLICY OF ECOSYSTEM SERVICES (2007).