



POLITECNICO
DI TORINO

Honors thesis

COURSE OF SPATIAL, URBAN, LANDSCAPE AND
ENVIRONMENTAL PLANNING

Abstract

**Environmental Compensations Plan for the stream “Stura
di Lanzo”: experiments at the local level**

Tutor

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by

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Every soil transformation makes an impact on the environment and landscape and this can cause the deteriorating of ecological balances and a loss of biodiversity. Moreover the excessive soil consumption (from urbanisation and infrastructure projects), the loss and impairment of environmental and ecological values, the deterioration of habitats and waters are only some problems that reduce the good quality living places and physical and mental health.

Environmental compensations may be a valid solution to the problems above mentioned and they can contain urban sprawl in order to protect environmental and ecological values of our lands.

In Italian the word “compensare” (compensate) is formed by two words: *cum*, that it means “together” and *pensare* that it means “to weigh”; the meaning is “recompense, indemnify and requite”. When we talk about environmental compensations we refer to a generic definition that includes all the environmental components (air, water, soil, society, economy, policy), but when we talk about ecological compensations the attention is for biological characteristics and it’s an activity that consists in protection, reconstitution and creation of ecological values.

The purpose of the graduate thesis is a first development of the Environmental Compensation’s Plan, a new tool that identifies public and private estates for the achievement of compensations, through the experimentation of a new methodology.

The territorial scope is the river basin of Stura of Lanzo’s stream, a vast territorial in the province of Turin; in the river basin there are 36 municipalities that are involved in the River’s Contract of the stream.

The Environmental Compensation’s Plan involved 13 municipalities and they have made time, resources and knowledge given that the Plan is an integral part of the Action’s Plan of the River’s Contract.

The graduate thesis is only an intermediate stage of a long process that will lead to an Environmental Compensation’s Plan for all the municipalities of the river basin.

In order to develop a good method I scanned national and international literature: there are a lot of approaches to the issue of ecological compensations and my method rooted in the ENEA’s method, applied in another context of the province of Turin.

Areas contained in the Environmental Compensation’s Plan were chosen strategically and the proposed measures aim to implement the Provincial Ecological Network and the Local Ecological Network, “green systems” for the conservation of biodiversity.

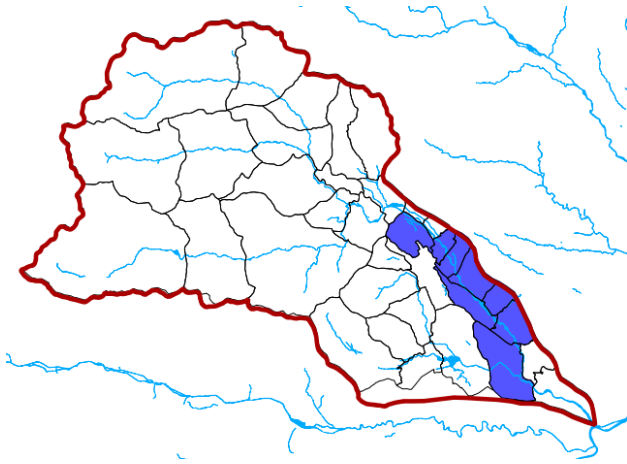


FIG.1 – The river basin of the stream of "Stura di Lanzo" and the area of the Plan.



FIG.2 – Banks of the stream of "Stura di Lanzo" in Venaria Reale.

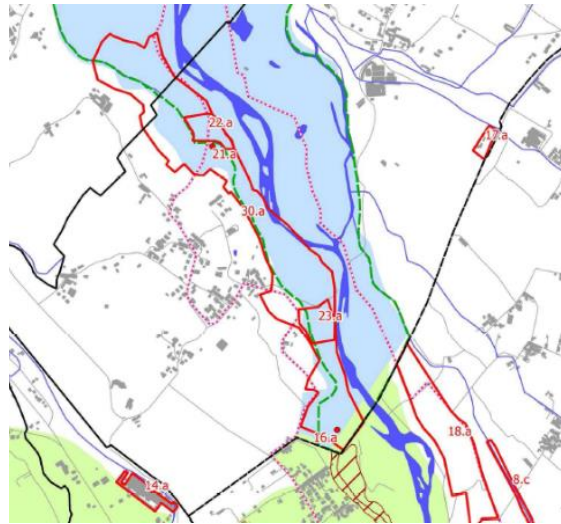


FIG.3 – A part of the Environmental Compensation's Plan.

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