

CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE

Department of Applied Geoinformatics and Spatial Planning

Faculty of Environmental Sciences

DIPLOMA THESIS ASSIGNMENT

Josep Carreras Artigas

Land and Water Management

Thesis title

Osor's Brook Watershed Strategic Plan

Objectives of thesis

To perform a geographic analysis of the study area and determine key directions of sustainability improvement.

Methodology

First, all the relevant available spatial as well as nonspatial data will be collected. Then, the spatial data will be analyzed using GIS. From all data collected, major strengths and weaknesses of the area will be identified using a SWOT analysis. Finally, suggestions for improvements leading to greater sustainability of the area will be made.

The proposed extent of the thesis

100-120 pages

Keywords

Strategic plan, Hydrological system, Water pollution, Ecosystem, GIS, Geographical analysis, Guilleries massif

Recommended information sources

Chapman D. (1996): Water Quality Assessments – A Guide to Use of Biota, Sediments and Water in Environmental Monitoring. Cambridge University Press.

McKinney D.C., Cai X. (2002): Linking GIS and water resources management models: an object-oriented method. Environmental Modelling & Software 17, p. 413 – 425.

Expected date of thesis defence

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The Diploma Thesis Supervisor

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Electronic approval: 20. 4. 2015

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Electronic approval: 21. 4. 2015

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Prague on 21. 04. 2015