



SOUTH CAROLINA REVENUE AND FISCAL AFFAIRS OFFICE
STATEMENT OF ESTIMATED FISCAL IMPACT
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Bill Number:	S. 0690	Introduced on March 21, 2019
Author:	Campsen	
Subject:	Geological Survey Unit of DNR	
Requestor:	Senate Agriculture and Natural Resources	
RFA Analyst(s):	Gallagher	
Impact Date:	December 13, 2019 Updated for Additional Agency Response	

Fiscal Impact Summary

This bill expands the duties of the Department of Natural Resources' (DNR) Geological Survey Unit to conduct topographic mapping using light detection and ranging (LiDar) data collections at least every five years. The implementation of this bill will increase DNR's recurring General Fund expenditures by a total of \$2,183,022 beginning in FY 2020-21. Of these funds, \$171,857 will be used for the hire of 3.00 FTEs: two Geologist/Hydrologist IIs and one GIS Manager I. The remaining \$2,011,165 will be used for other operating costs. These costs include contractual services, office rent, software, landline phones, general office supplies, travel for training and certification, and tort and workers compensation insurance.

This fiscal impact has been updated following a response from DNR.

Explanation of Fiscal Impact

Updated for Additional Agency Response on December 13, 2019
Introduced on March 21, 2019

State Expenditure

This bill expands the duties of DNR's Geological Survey Unit to conduct topographic mapping using light detection and ranging (LiDar) data collections at least every five years. The bill specifically authorizes the unit to work with local, state, and federal governmental entities to complete the topographic mapping. This bill further requires the unit to provide the information collected to DNR's Flood Mitigation Program and to make the topographic maps available to the public via DNR's website.

This bill will result in an expenditure increase to DNR's recurring General Fund beginning in FY 2020-21. As a result of this bill, DNR will hire 3.00 FTEs: two Geologist/Hydrologist IIs and one GIS Manager I. The two Geologist/Hydrologist IIs will be responsible for quality assurance and control, development of topographical maps, and the distribution of these maps to the public. The GIS Manager I will be responsible for coordinating the topographical mapping program, contracting of data collection, and the compilation of collected data. Based on DNR entry salaries for each position, the department anticipates this will increase recurring General Fund expenses by \$171,857 beginning in FY 2020-21.

Furthermore, DNR anticipates recurring General Fund expenses of \$2,011,165 beginning in FY 2020-21 for other operating costs as follows:

Summary of Operating Costs	
Operating Categories	Estimated Annual Recurring Costs
Contractual Services	\$2,000,000
Office Rent	\$6,960
Software	\$1,500
Travel	\$1,400
Landline Phones	\$540
Supplies	\$300
Workers Compensation Insurance	\$280
Tort Insurance	\$185
Total	\$2,011,165

Notes: These estimates are provided by DNR. Contractual services estimate is based on costs of similar undertakings by DNR's GIS section. Office rent value is based on an assumed commercial rate of \$16 per square feet and a need for 435 square feet. All other estimates are based on current contract and premium costs.

DNR will use contractual services for engineering services, environmental and historical preservation studies, and auditing services. The department assumes the cost to contract topographical mapping data collection will be \$303 per square mile for the state's approximate 33,000 square miles. The department anticipates that approximately 20 percent of the state will be topographically mapped using LiDar technology per year, resulting in each county being updated on a five-year cycle. Travel expenses will include expenditures related to training, certification, conferences and meetings, and field inspections.

This expenditure impact has been updated following a response from DNR.

State Revenue

N/A

Local Expenditure and Revenue

N/A

Introduced on March 21, 2019

State Expenditure

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This expenditure impact is pending, contingent on a response from DNR.

State Revenue

N/A

Local Expenditure and Revenue

N/A

Frank A. Rainwater, Executive Director