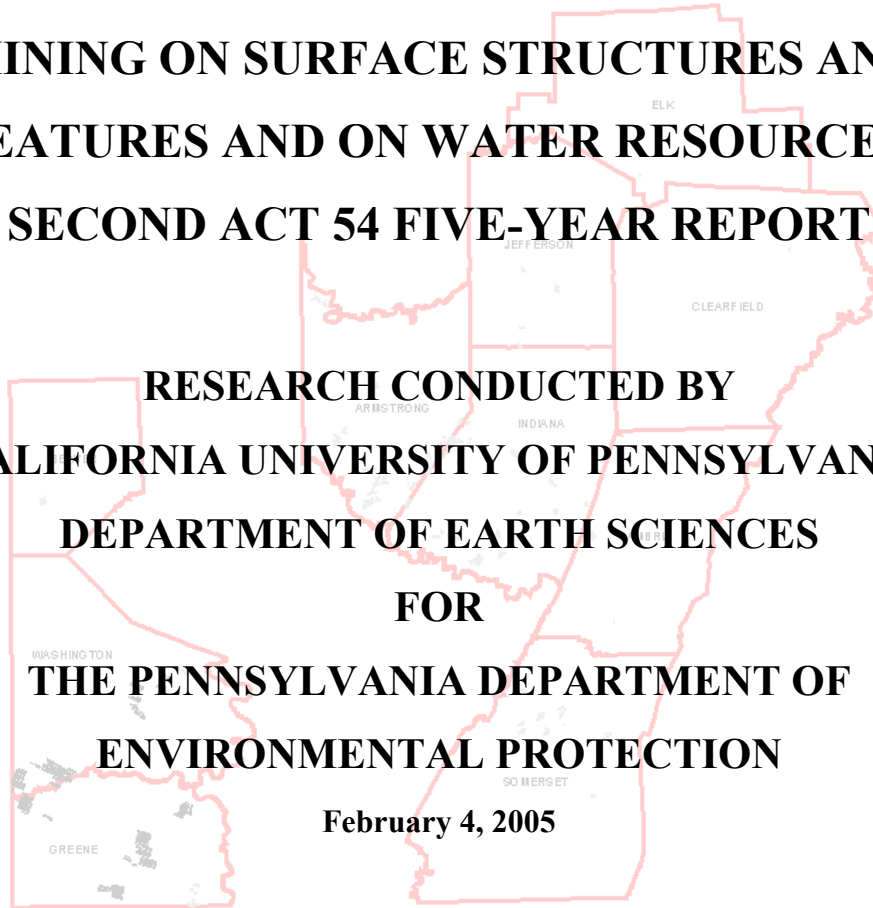


**THE EFFECTS OF SUBSIDENCE RESULTING  
FROM UNDERGROUND BITUMINOUS COAL  
MINING ON SURFACE STRUCTURES AND  
FEATURES AND ON WATER RESOURCES:  
SECOND ACT 54 FIVE-YEAR REPORT**

**RESEARCH CONDUCTED BY  
CALIFORNIA UNIVERSITY OF PENNSYLVANIA  
DEPARTMENT OF EARTH SCIENCES  
FOR  
THE PENNSYLVANIA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION**

**February 4, 2005**



### **Section XIII: OTHER RECOMMENDATIONS**

In addition to recommendations found at the ends of certain sections within the report, the University makes the following general recommendations with regard to the reporting process.

*With regard to future Act 54 reports, the University recommends that the study period take place either contemporaneously with the assessment period or at increments during the assessment period. Such an approach would expedite the completion of the report upon the termination of the assessment period. (The contemporaneous writing of the report would, at the very least, aid in the accurate mapping of features)*

*The University also recommends the ongoing acquisition of certain data that were required by the MOU but found to be incomplete, conflicting, confusing, or missing in the electronic file system or in paper files. (Many details not recorded but germane to resolutions of problems lie in the memories of surface subsidence agents of the California District Mining Office. The agents might forget details.)*

*The University recommends that baseline field studies with a consistent methodology be established for all natural entities, particularly for streams.*