



WATER RESOURCES RESEARCH GRANT PROPOSAL

Project ID: 2004AL25B

Title: Development and Characterization of a New Class of High-Capacity Ion Exchangers and Environmentally Benign Process for Removal of Perchlorate in Water

Project Type: Research

Focus Categories: Management and Planning, Surface Water, Groundwater

Keywords: Perchlorate removal, ion exchange, ligand exchange, regenerative process, residual waste treatment, rocket fuel, water treatment

Start Date: 03/01/2004

End Date: 02/28/2005

Federal Funds: \$25,000

Non-Federal Matching Funds: \$61,278

Congressional District: 3rd

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Abstract

This project aims to develop an environmentally benign, cost-effective process for effective removal and complete destruction of perchlorate in drinking water from affected Alabamasources. A new class of novel sorbents, referred to as polymeric ligand exchangers or PLE will be prepared and characterized. Water from three Alabama sites of national caliber will be tested in the research.