

Statement of Qualifications – Project Profiles

Project: Gypsum Stack Reclamation Missouri

The project involved the design of a regrading plan, low permeability cap and runoff controls for closure of approximately 45 acres of phospho-gypsum piles used in the process of explosives, chemicals and fertilizer. Environmental issues included erosion from the steep slopes of the piles into an adjacent creek, low-level radiation and ground water impacts. The reclamation design was performed to allow attainment of state and federal limits for total suspended sediment and nutrients in storm water runoff from the site.

TREC personnel performed all aspects of the project from problem characterization to construction. Activities included a focused site assessment to determine the nature of the waste piles and identify potential cover soil sources; preparing work plans and other documentation; construction quality assurance/quality control (QA/QC) plans; negotiating performance standards based on state and federal environmental regulations; preparation of the design specifications and cost estimate; and construction management.



Piles of phospho-gypsum being regraded and covered prior to revegetation.

including excavation and placement of 350,000 cubic yards of soil and gypsum, sedimentation basin construction, cap placement and revegetation.

SERVICES PROVIDED:

- Site Characterization
- Geotechnical and Radiological Evaluations
- Conceptual and Final Design Reports
- Preparation of Supplemental Plans
- Specifications and Drawings
- Turnkey Construction
- Construction QA/QC and Oversight
- Public Relations Plans
- Meetings/negotiations with state oversight agency.

The design included slope reduction, soil cap and revegetation requirements, infiltration and radiological measurements and modeling; design of storm water detention basins to remove sediment from runoff while vegetation was established following construction; and developing appropriate plans for materials handling and quality assurance. **TREC** personnel managed the construction of the design