

MINELAND RECLAMATION SPECIALIST

KIND OF WORK

Professional environmental management and preservation work.

NATURE AND PURPOSE

Under limited supervision/procedural control, inspects, monitors, and evaluates land restoration projects, and provides direction to the mining industry to ensure compliance with the State's rules for mineland reclamation; performs related work as required.

EXAMPLES OF WORK (A position may not include all the work examples given, nor does the list include all that may be assigned.)

Studies and researches revegetation techniques to collect information for effective future reclamation of disturbed land by analyzing literature on soil types, planting techniques, fertilization needs, etc.; by attending meetings, conferences, and seminars; by correlating soil and vegetation suitabilities for different sites.

Evaluates and monitors site preparation and revegetation projects to establish visual or vegetative barriers, control erosion, etc., and ensure revegetation success by directing seasonal laborers to seed with selected grass, shrub, or tree species; by maintaining accurate records; by checking progress of individual sites; by recording survival rate of species planted; and by determining future steps for specific sites.

Develops mineland reclamation projects for private firm bidding by assisting in the determination of a specific site's needs; by performing preliminary professional and technical project design work; by preparing cost estimates; by directing final design drafts for reclamation projects; by fully defining in writing specifications, scope, and project details for presentation to perspective bidders; by inspecting project sites during and after completion of the project; by maintaining a follow-up reclamation report and plan.

Reviews and evaluates permit applications for disposal of mining wastes to ensure consistency with rule requirements and the principles of soil science and revegetation by determining if the permit applications are consistent with requirements such as siting, exclusion areas, and land form design; by meeting with mining industry officials; by conducting field investigations of proposed sites; by reviewing annual reports and operating and deactivation plans for permit compliance.

Inventories publicly-owned abandoned mining sites for future assignment of reclamation projects by determining ownership and lease arrangements; by locating selected areas through use of aerial photos and United States Geological Service quadrangle maps; by gathering and analyzing field notes; by photographing project sites; by recommending reclamation projects; and by maintaining files on all inventoried land.

Assists in developing mineland reclamation rules, revisions, and amendments to reflect current and future reclamation procedures by studying statutes, laws, and rules; by attending public meetings and hearings required for rule development; by aiding in the writing of new rules and regulations.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED

Knowledge of:

Vegetation and plant ecology, soil sciences and soil-plant interaction, and related sciences demonstrating a broad understanding of biological communities sufficient to correlate soil and vegetation suitabilities for different mineland reclamation sites.

The mining industry's techniques and corresponding environmental concerns as well as existing rules and regulations sufficient to review, evaluate, and determine compliance of permit applications.

Basic mapping procedures sufficient to read aerial photos and locate and identify project sites.

Ability to:

Prepare and analyze technical proposals and draft recommendations.

Organize, design, implement, and monitor plans for reclamation projects.

Conduct research activities and summarize technical data and conclusions into reports.

Communicate effectively with mining officials, government personnel, and the general public.

Conduct cost/benefit analyses of revegetation programs.

Est.: 04/81
Rev.: 04/84

T.C.:
Former Title(s):