

**LRC-III-14**  
**SOIL DEPTH AND QUALITY REQUIREMENTS**  
**FOR RECLAMATION OF RANGELANDS**

**CONTRACTOR:** North Dakota State University Agricultural Experiment Station

**PRINCIPAL INVESTIGATORS:** Gary A. Halvorson, Ph.D., Soil Scientist  
Land Reclamation Research Center  
North Dakota State University  
(701) 667-3002

**PARTICIPANTS**

<u>Sponsor</u>	<u>Cost Share</u>
North Dakota Lignite Council	\$15,420
North Dakota State University	24,025
ND Industrial Commission	<u>14,730</u>
<b>Total</b>	<b>\$54,175</b>

**Project Schedule – 1 Year**

Contract Date – 7/17/89  
Start Date – 7/1/89  
Completion Date – 6/30/90

**Project Deliverables**

Progress Reports ✓  
Final Report – 8/13/90 ✓

**OBJECTIVE / STATEMENT OF WORK**

The objective of this research is to determine soil replacement depths and quality necessary to meet productivity and species diversity requirements for reclaimed grassland as compared to reference areas within similar topographic units. This research will quantify the effect of soil quality, soil and spoil texture and topography on diversity and productivity of a given rangeland site. This was the second year of a proposed three-year program.

**STATUS**

This program was extended into the third year as LRC-V-22.