

H. Subsidence Control Plan (784.20)

1. Include a survey which shows what structures or renewable resource lands exist within the proposed permit and adjacent area and whether subsidence, if it occurred, could cause material damage or diminution of reasonably foreseeable use of such structures or renewable resource lands. If it is determined that no material damage will occur to surface structures or renewable resource lands from subsidence, the application shall include supporting evidence of such a finding.

A survey of structures, features, or renewable resource lands has been conducted within the area proposed for development mining. The limits of the survey were determined by a 30⁰ angle of draw from the outer limits of mining. Findings are indicated on the [Pre-Subsidence Survey Map](#).

The [Pre-Subsidence Survey Map](#) shows the area to be mined during the development phase of the proposed mine. No structures, features, or renewable resource lands are above the area within the angle of draw except for Alabama Highway 69 and a stream. Room and pillar mining will be performed. Pillars have been designed to prevent subsidence from occurring.

The survey found one stream within the area. Water quality and quantity data surveys has been performed and submitted in the Surface Water Hydrology section in Attachment II-G of the permit. The stream site LYC-SW1 is located downstream of proposed mining. See Hydro-Geo Map for surface water sites.

The Permit map shows Alabama Highway 69 on the southern boundary. The proposed mine plan proposes only room and pillar mining. Inspection of the highway will be performed prior to mining. During mining inspections will be made to verify no damage by mining.

Potential damage to public roadways is not anticipated due to coal pillars remaining. If subsidence should occur damage would be limited to cracking and opening of existing joints and cracks in pavements. No major transportation structures, such as long-span bridges of culverts, or tunnels, exist within the area. If mine subsidence damage occurs to public roadways or related facilities, qualified personnel will perform repairs at Blue Creek Energy's expense.

All areas within the angle of draw are considered undeveloped lands consisting mainly of mixed pine/hardwood species.

Mine progress maps will be submitted annually during the first quarter to the ASMC once mining begins.