Asbestos Minerals Sites – Initial Screening

Conducted by North Carolina Division of Waste Management, in cooperation with US EPA Region IV and North Carolina Division of Public Health, Health Hazards Control Unit

### A. SITE INFORMATION

<table>
<thead>
<tr>
<th>Historical Name</th>
<th>Day Book dunite deposit</th>
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<tbody>
<tr>
<td>Latitude / Longitude</td>
<td>35.96686N -82.28392W</td>
</tr>
<tr>
<td>State, County, nearest City/Town</td>
<td>North Carolina, Jackson County, Sapphire</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Site Type</th>
<th>Mine</th>
<th>Prospect</th>
<th>Occurrence</th>
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<thead>
<tr>
<th>Mineral reported</th>
<th>chrysotile</th>
<th>crocidolite</th>
<th>tremolite</th>
<th>Other (name)</th>
</tr>
</thead>
<tbody>
<tr>
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### B. INFORMATION SOURCES


### C. SITE AND AREA RECONNAISSANCE

<table>
<thead>
<tr>
<th>Date of Site Reconnaissance</th>
<th>11/1/05</th>
</tr>
</thead>
</table>

1. Was the site located and a site visit completed?  
   ___ x Yes  ____ x No, site could not be located  
   (Please attach a topographic map print showing the site)

2. Is the site property developed and in use of any kind?  
   ___ x Yes  ____ x No, site is wooded / undeveloped

3. Land use on site (check all that apply)  
   ___ x Residential  ____ x Commercial  ___ x Industrial  
   ___ x Recreational (golf course, park, etc.)  
   ___ x Construction or clearing in progress  
   ___ x Other (please describe below)

4. Are there large areas of bare soil visible on the property?  
   ___ x Yes  ____ x No  
   (Please describe below)

5. Are there residences, apartments, stores or businesses, or day care facilities on the site, or within 200 feet of it?  
   ___ x Yes  ____ x No  
   Please note which, and describe the item and its location (relative to the site) below.

6. Where is the nearest residence, place of business, or place frequented by local residents located, in relation to the site?  
   ___ x N/A (addressed at 5 above)  
   (Place and distance/direction to site)
7. Are any physical barriers present (fences, gates) that prevent access?  

   __x__ Yes  __x__ No  

Description  Some areas are gated. Others are not.

D. ADDITIONAL INFORMATION

(Indicate by letter and number which topic the information supports)

A. Anthophyllite was identified in samples taken from an ungated dirt road directly across from the voluntary fire department to the north of the currently active olivine mine. Initial PLM analysis was performed by Ronald D. McDaniel. Confirmation analysis by PLM was performed by Stephen H. Westbrook, Asbestos Analysis and Information Service, Inc., a NVLAP accredited laboratory.

C3. The site contains an active olivine mine as well as several residences and a voluntary fire department station. A public highway (NC Hwy. 197) forms the western and northern borders of the open pit mining operation. An olivine processing plant is located on the west side of the pit within a few feet of the above-mentioned road.

C4. Some large areas of bare soil and mine waste are present in the vicinity of the mining operation. Several homes are located close to these areas. One home is located at the base of a very large spoil pile.

C5. See Item C3 above and the attached annotated infrared orthophoto below for details.

Directions to the Mine:

The Daybook mile is located on NC 197, 3.5 miles north of the intersection of NC 197 and U.S. 19E. The mine is 1.2 miles southeast of Day Book at the intersection of SR 1416 and NC 197.
Color IR Orthophoto of the Day Book mine area.

View looking south from hill north of Day Book mine on NC Hwy. 197.
View from front of fire station.

Spoil piles loom high over residence on NC Hwy. 197 north of Day Book mine.
The hill north of the mine office was once the site of a pit or quarry (1984 Burnsville 7.5’ Topo).

South side of olivine processing plant. Open pit is in background.
North side of olivine processing plant.

Anthophyllite from the road across from the fire station.
Another anthophyllite sample taken from the road across from the fire station.