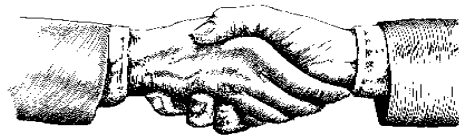


**ISSUE GROUP
MEETING #1 REPORT**

**KNOXVILLE
PARKWAY
CONTEXT SENSITIVE
SOLUTIONS**

**STREAMS, WATER QUALITY,
AND CAVES ISSUE GROUP**



October 18, 2004

**Cedar Bluff Holiday Inn Select
Knoxville, TN**

Todd Kemp, Facilitator

Todd Kemp opened the meeting by introducing himself and then asking presenters and issue group members to introduce themselves. Luke Eggering, Parsons Transportation Group, narrated a PowerPoint presentation dealing with *Storm Water Regulations*. Kevin Brown, TDOT Region I Ecology Section, discussed *Stream Mitigation* and how it could affect this project. David Barker, TDOT Region I Geotechnical Section, narrated a PowerPoint presentation dealing with *Caves and Karst Areas* and how it could affect this project.

CRITICAL ISSUES

The major concerns brought up in the discussion were as follows:

- The need to preserve and protect the caves in the area. It was noted specifically the historic and cultural value of the four major cave formations in the area (Cherokee Caverns, Spring Hill/Saltpeter Cave, Wormhole Cave, & Wilson Cave).
- The majority of the concerns expressed dealt with the how the blasting that would take place in the construction of the roadway would affect these cave areas and other subsurface waters such as springs and wells.
- The protection of the caves and also the groundwater from pollutants such as hazardous spills from trucking accidents, sediment in stormwater runoff from the construction site, and any other pollutant that could reach the caves, lakes, wells, springs, and other waters and have an adverse affect on the water supply for this area.
- The need to control storm water runoff during and after construction to prevent dumping directly into streams and creeks. It was expressed that they would like to see natural drainage swales and other devises used to filter the water before allowing it to enter the streams and creeks.
- The need to protect Bullrun Creek, Conner Creek, and Beaver Creek from sediment runoff during construction.
- The need to control water quantity leaving the project and entering the streams and creeks. Specifically mentioned flash flooding problems that are already occurring to Beaver Creek causing scouring and other problems. There were concerns mentioned about making sure the post-developed water quantity is similar to the pre-developed water quantity to avoid overloading existing streams and creeks downstream of the project.
- The need to control rock fall and washout on large rock cuts in the new roadway. Other roadways in the area have had recent problems with this and the lack of adequate catchment area for fallen rocks.
- The fact that most of the project area has sinkholes and more are being discovered. It was stated that at one time all the major caves in this area were connected, but that since then some of these passages have collapsed.
- There was some concern about the effects of blasting and how far out away from the project would be disturbed by this blasting.
- A suggestion was made that next time we have a blown up overlay of the surveyed boundaries of the caves.

COORDINATION OPPORTUNITIES

1. It was suggested that there was a need to attain a copy of the cave surveys being conducted and be able to overlay them over the corridor maps to get a better idea of the area affected by the caves. It was also requested to have someone from the TDOT Construction Office give an estimate of how the caves and water wells in the area could be affected by blasting that may occur during construction of the project.

IDENTIFIED NEEDS

1. There was a need expressed to consider the water supply of the area and the effects that construction could have on it.
2. There are several people concerned with the runoff from the project that could reach the area streams during the construction process. It was explained that TDOT is making significant changes to the way it deals with this runoff and all erosion and sediment control issues. Inspections are being made and much more attention is being given to prevent negative affects from project storm water runoff.
3. There was a need expressed to protect the caves from damage during construction. As well as the need to protect the physical, cultural, and historical values of the area caves.

ATTENDEES

16 people attended the meeting. The names and organizations of the people who attended the meeting are presented as follows.

Issue Group	Organization
Roy Arthur	Resource Team – Beaver Creek Task Force
Bill McMaster	Resource Team – Heiskell Community
Brian Jenks	Resource Team - Anderson County Government
Sharon Todd	Resource Team – Claxton Community
Lola Curran	Section 4 - Sub-Committee Member
Marc Dunham	Section 3 - Sub-Committee Member
Vickie Long	Section 4 - Sub-Committee Member
Fred Young	Section 2 - Sub-Committee Member
David Barker	TDOT Reg. I Geotech
Kevin Brown	TDOT Reg. I Ecology
Bob Woodson	TDOT Reg. I R.O.W
Mark Holleran	TDOT Asst. Chief Engineer
Jim Whidby	Cherokee Caverns/National Speleological Society
Luke Eggering	Parsons Transportation Group
Todd Kemp	Palmer Engineering
Brian Lee	Palmer Engineering