

SEEP LOCATION MAP

PLATE 5

UPPER CANYON CREEK

DRAINAGE BASIN

LEGEND



EPIHEMERAL SEEPS

Seeps which occur only during the wetter time of the year, usually winter through early to mid-summer. This type of seep is most common higher on the hillside.

Road-related problems associated with ephemeral seeps arise due to the inability to clearly detect these seep locations during dry times of the year. As such, the appropriate placement of ditches and culverts is not achieved and oversaturation of sections of the roadfill occurs.

In the natural setting, the intermittent nature of these seeps creates short-term, localized instability as a result of cyclic oversaturation and undersaturation of the unconsolidated overburden.



PERENNIAL SEEPS

Seeps which persist throughout the year. Discharge volumes vary depending on the amount of water available to the system. These seeps can usually be found lower on the hillside.

Because of their constancy, perennial seeps are easier to locate than ephemeral seeps; however, the constant saturation creates larger, more persistent and generally slower moving failures in both natural and anthropogenically altered settings.

Broad areas of persistent wetness.

