Geologic and Hydrologic Setting

Phase 1 and Phase 2
Distinct Features

Zelma Jackson
The site is bounded by:

West by Umtanum Ridge
And Yakima Ridge

North by Gable Butte and Saddle Mountain

East by Columbia River

South by Rattlesnake Ridge
Geologic Setting:
Late Cenozoic Stratigraphy of the Pasco Basin

Columbia River Basalt Group
Geologic Setting:
Late Cenozoic Stratigraphy of the Pasco Basin

Ringold Formation
Geologic Setting:
Late Cenozoic Stratigraphy of the Pasco Basin

Plio–Pleisocene Deposit
Hydrology Setting

Wahluke Syncline

Cold Creek Syncline
Previous Investigations

- Assess soil and gas beneath trenches for presence of chemical constituents
- Assess nature of release for impact to human health and the environment
- Provide additional analyses
- Quarterly groundwater sampling
Clastic dike near US Ecology
Waste emplacement in 2002

7/17/02
Conclusion

- Clastic dikes may be a preferential pathway for the migration of contaminants.

- Clastic dikes are the result of the Pasco Basin’s formation and their distribution pattern is reflected on the surface and in the subsurface.

- The Pasco Basin’s stratigraphy, complex hydrogeology, groundwater flow direction and past disposal practices in unlined trenches support migration of contaminants in the vadose zone to groundwater.