The only Project Alternative with potential hazardous waste site effects is the Expanded Glade Alternative. Nine hazardous sites exist within one-half mile of infrastructure associated with this alternative; only three require appropriate mitigation and management practices:

- Trichloroethylene plume at the F.E. Warren Number 13 Formerly Used Defense Site
- Larimer County Sheriff’s Pistol Range
- Forks Lumber Company

All three of these sites affect the NISP Proposed Action regardless of Fort Collins’ participation in the proposed Glade Reservoir. Fort Collins’ additional capacity in the proposed Glade Reservoir under the Expanded Glade Alternative would have no additional effects related to these three sites.

Noise

Most noise effects would be temporary under all Project Alternatives, occurring during construction. Only noise levels associated with construction of the Gravel Pits Alternative and the Agricultural Reservoirs Alternative would exceed Larimer County noise thresholds. Specifically, pipeline construction under both of these Project Alternatives would occur in close proximity to residential neighborhoods where noise effects could occur. Effects would be short-term and occur during daytime hours. Noise levels associated with operation of all Project Alternatives would not exceed county noise thresholds.

Air Quality

Estimates for emissions of criteria pollutants associated with each Project Alternative are based on construction-related emissions and 100 years of operation emissions. The Gravel Pits Alternative would have the highest emissions levels for all criteria pollutants as a result of the extensive excavation required during construction. Total project carbon monoxide emissions would exceed the general conformity de minimis thresholds for the Gravel Pit and Agricultural Reservoirs Alternatives, largely due to a gasoline-fueled generator operating during construction. A full general conformity determination would not be required if one of these alternatives was selected because emissions would not exceed the general conformity de minimis threshold in the designated maintenance areas.

Effects on Criteria Air Pollutants

Potential effects to soils due to the Project Alternatives include the long-term loss of soil due to inundation and new infrastructure, erosion during construction, shoreline erosion, sedimentation, and suitability for revegetation of disturbed areas.

Soils

The Expanded Glade Alternative, Gravel Pits Alternative, and Agricultural Reservoirs Alternative would all have minor long-term effects on prime farmland. A minor effect is considered to be less than one percent of prime farmland in Larimer County. Fort Collins’ Proposed Action would not affect prime farmland.

Geology

Loss of Accessibility to Geologic Resources refers to the acreage of construction material resources that would become inaccessible to surface mining due to implementation of each Project Alternative. Direct, long-term loss of construction material resources would occur in inundation areas or where new infrastructure would be built. Affected acreage is the same as that shown for soil effects – see adjacent column.

Mineral Resources

No Project Alternative would affect mineral resources, except for Fort Collins’ Proposed Action, which would inundate surface accessibility to nine acres of placer mining claims on BLM land. Fort Collins has entered into an agreement with the owner of the claims to inundate these claims and has applied to the BLM for a perpetual right-of-way to inundate nine acres of BLM land.

Geologic Hazards

The claims to inundate these claims and has applied to the BLM for a perpetual right-of-way to inundate nine acres of BLM land.