



LEGEND

- Proposed Permit Area (2,413.97 ±AC)
 - TIAA Mining Block (216.045 ±AC)
 - Keystone Mining Block (570.862 ±AC)
 - Adirondack Mining Block (481.526 ±AC)
 - Avoided Stream
 - Permanently Impacted Stream
 - Permanently Impacted Wetland
 - Permanent Impact Area
 - Avoidance (No Mining)
 - Wetlands
 - Drag Line Cuts
- 0 3,000
 Feet

Summary of Features

Aquatic Feature	Total		Temporary Impacts		Permanent Impacts		Total Avoided	
	Length (LF)	Area (AC)	Length (LF)	Area (AC)	Length (LF)	Area (AC)	Length (LF)	Area (AC)
Wetland	---	1,201.230	---	521.910	---	65.132	---	614.188
Perennial Stream	387	0.064	0	0	0	0	387	0.064
Intermittent Stream	7,703	0.623	0	0	4,658	0.199	3,045	0.424
Ephemeral Stream	273	0.020	0	0	0	0	273	0.020



FIGURE 4.1a: ALTERNATIVE 1
TWIN PINES MINERALS
USACE INDIVIDUAL PERMIT APPLICATION

BASEMAP: Saint George, Georgia USGS 7.5 Minute Quadrangle Map, 1994.

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APPROXIMATE SCALE: 1" = 3,000'