APPENDIX 7-29

PRE- AND POST-MINING COMPOSITE LAND TYPE PERCENT SLOPE CALCULATIONS

EARTHFAX ENGINEERING, INC.
ENGINEERS / SCIENTISTS

PROJECT UC-27 PAGE ____ OF ____
COMPUTED BKB DATE 4-3-93
CHECKED ____ DATE ____

$$WS = 0.25\,(EM - EN)\,(LC_{25} + LC_{50} + LC_{75}) / AREA$$

EM = MAX. ELEVATION
EN = MIN. ELEVATION
LC_{25}, LC_{50}, LC_{75} = CONTOUR LENGTH 25, 50, 75 % OF EM-EN
WS = WATERSHED SLOPE.

PRE-MINING

LAND TYPE	EM	EN	LC_{25}	LC_{50}	LC_{75}	AREA (FT^2)	WS %
1	9680	9160	420	800	680	472,000	56.3
2	9320	8795	840	1080	1040	901,000	43.1
3	9528	8840	880	980	900	816,000	58.0
4	9900	8761	2340	4760	2800	6,129,000	46.0
5	9902	9255	480	880	400	586,000	47.8
6	10120	9565	300	740	920	592,000	45.9
7	10400	9900	480	1060	960	480,000	65.1
8	10463	9520	3280	3900	1640	4,110,000	44.9

POST-MINING

1	9680	9160	410	790	670	472,000	55.4
2	9320	8795	839	1079	1040	901,000	43.1
3	9900	8840	879.5	979	899	816,000	57.9
4	9897	8761	233	4758	2780	6,129,000	45.8
5	9902	9255	480	880	400	586,000	47.8
6	10120	9565	300	740	920	592,000	45.9
7	10400	9900	480	1060	960	480,000	65.1
8	10463	9517	3280	3900	1640	4,110,000	50.8