

Appendix 8.12-4

Cut and Fill Calculations

FILL VOLUMES

Area of site	length	width	height	volume (cu ft)
West berm (with opening for roadway)	591	70	10	236,400
Reclamation of Laydown and construction parking areas	1307	429	1	560,703
North berm @ 3' high	1571	21	3	56,556
South berm @ 3' high	1571	21	3	56,556
North berm @ 5' high	1571	33	5	141,390
South berm @ 5' high	1571	33	5	141,390
East 'unused' area of site	450	641	1	288,450

SOIL DISPOSITION

The topsoil-type fill should be used in berms and on the east side of the property - it contains vines and other organic materials and is not of overall good quality. Because there are 503,506 cu ft of such soils and only 236,400 cu ft will be required for the west berm, the remaining soil should be used in the north and south berms. If those berms are not constructed, the remaining 267,106 cu ft should be distributed over the east portion of the site. It would raise that portion of the lot by about 1 foot.

The 'clean' soil can be used anywhere on site. The top 3" (approximately) of the berms should include this soil. Additionally, the laydown area can be reclaimed at the end of construction by placing up to 1' of the clean soil on top of any crushed rock or other materials that were used in the parking and laydown areas. The 'clean' soil may be stockpiled on the east end of the site until construction has concluded at which point the 'clean' soil would be distributed over the parking and laydown areas.

If berms are utilized on the north and/or south sides of the plant site, the depth of the fill in the east portion of the lot and in the construction parking/laydown areas will be decreased from the 12" noted above.