

Table MU1 3-1 Topsoil Salvage (Page 1 of 2)

Facility ¹	Type of Disturbance ²	Soil Type (acres) and Topsoil Stripping Depths (inches) ³				Topsoil Volumes	Comments
		Poposhia Loam	Teagulf Sandy Loam	Pepal Sandy Loam		Cubic Yards	
				6	12		
<i>Support Facilities</i>							
Staging Area & Shop	LT	--	--	--	1.18	1903.10	
Access Roads ³	LT	0.37	0.40	1.72	0.81	6678.84	Secondary roads including 'main' road in MU1 and roads from Header Houses to that road.
Trunkline	ST	0.10	0.11	0.53	0.25	1462.83	Trench.
Transmission Line	--	--	--	--	--	--	No topsoil will be stripped for installation of the transmission line (see Table MU1 3-2, Vegetation Disturbance).
Fence	--	--	--	--	--	--	No topsoil will be stripped for installation of the fence (see Table MU1 3-2, Vegetation Disturbance).
Header Houses	LT	--	0.03	0.35	0.07	733.82	Area includes building footprint, perimeter access, and topsoil stockpile. Roads from Header Houses to 'main' MU1 road are included under Access Roads.
<i>Pattern Area</i>							
Drill Pits & Trenches	ST	0.43	1.16	1.29	0.86	6375.39	Based on 10% ST disturbance within pattern area (see Figure OP-6b in the main permit document). The LT disturbances for Header Houses and Access Roads are specified above.
<i>Monitor Well Ring</i>							
Mud Pits for Monitor Wells	--	--	--	--	--	--	Monitor ring wells were installed in Summer/Fall 2008 and associated disturbance reclaimed.
Monitor Wells	--	--	--	--	--	--	The above-ground casing for each well occupies a very small space (e.g., 1 ft by 1 ft). Topsoil removed during installation of the wells in Fall 2008 was replaced around the wells.
Two-Track Road (monitor well ring)	--	--	--	--	--	--	Topsoil will not be stripped from this road unless problems are encountered in maintaining portions of road (e.g., drainage crossing); therefore, no disturbance is planned at this time.

Table MU1 3-1 Topsoil Salvage (Page 2 of 2)

Facility ¹	Type of Disturbance ²	Soil Type (acres) and Topsoil Stripping Depths (inches) ³				Topsoil Volumes	Comments
		Poposhia Loam	Teagulf Sandy Loam	Pepal Sandy Loam		Cubic Yards	
Topsoil Salvage (acres)	LT	0.37	0.43	2.07	2.06	69.31	
	ST	0.53	1.27	1.82	1.11	58.32	
Topsoil Salvage (cubic yards) ⁴	LT	49	58	279	276	9315.76	Recommended topsoil stripping depths were 24 inches or less (Attachment MU1 3-1). For a conservative estimate of the amount of topsoil to be removed and stockpiled, a depth of 24 inches was used for the disturbance calculations.
	ST	71	170	245	149	7838.22	

¹ Facility locations and distribution of vegetation types are shown on Figure MU1 3-2.

² LT = Long Term topsoil stockpile, i.e., duration of mine unit. ST = Short Term topsoil stockpile, i.e., a few days to a few months.

³ Includes road through mine unit and roads connecting header houses to that road.

⁴ Rounded to nearest five cubic yards.