

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

Facility <sup>1</sup>	Term of Disturbance <sup>2</sup>	Total	Soil Type			Comments
			Poposhia Loam	Teagulf Sandy Loam	Pepal Sandy Loam	
<i>Support Facilities (acres)</i>						
Staging Area & Shop	LT	1.50	--	--	1.50	
Access Roads <sup>3</sup>	LT	3.29	0.37	0.40	2.53	Secondary roads including 'main' road in MU1 and roads from Header Houses to that road.
Pipeline	ST	1.32	0.16	0.14	1.02	
Transmission Line	--	0.00	--	--	--	No topsoil will be stripped for installation of the transmission line (see Table MU1 3-2, Vegetation Disturbance).
Fence	--	0.00	--	--	--	No topsoil will be stripped for installation of the fence (see Table MU1 3-2, Vegetation Disturbance).
Header Houses	LT	0.45	--	0.03	0.42	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 (acres)</i>						
Drill Pits & Trenches	ST	3.74	0.43	1.16	2.15	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 (acres)</i>						
Mud Pits for Monitor Wells	--	0.00	--	--	--	Monitor ring wells were installed in Summer/Fall 2008 and associated disturbance reclaimed.
Monitor Wells	--	0.00	--	--	--	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)	--	0.00	--	--	--	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.

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Facility <sup>1</sup>	Term of Disturbance <sup>2</sup>	Total	Soil Type			Comments
			Poposhia Loam	Teagulf Sandy Loam	Pepal Sandy Loam	
<b>Total Topsoil Salvage Area (acres)</b>	<b>LT</b>	<b>5.24</b>	<b>0.37</b>	<b>0.43</b>	<b>4.44</b>	
	<b>ST</b>	<b>5.06</b>	<b>0.59</b>	<b>1.30</b>	<b>3.17</b>	
<b>Total Topsoil Salvage Volume (cubic yards) <sup>4</sup></b>	<b>LT</b>	<b>16,880</b>	<b>1,175</b>	<b>1,390</b>	<b>14,315</b>	Recommended topsoil stripping depths were 24 inches or less (Attachment MU1 3-1). For estimating topsoil salvage volumes, a topsoil depth of 24 inches was used so topsoil stockpile volumes (& associated footprints) would represent the maximum.
	<b>ST</b>	<b>16,315</b>	<b>1,890</b>	<b>4,195</b>	<b>10,230</b>	

<sup>1</sup> Facility locations and distribution of soil series are shown on Figure MU1 3-1.

<sup>2</sup> 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.

<sup>3</sup> Includes road through mine unit and roads connecting header houses to that road.

<sup>4</sup> Rounded to the nearest five cubic yards.