Mount Washington Remediation: Four hectares of bituminous liner

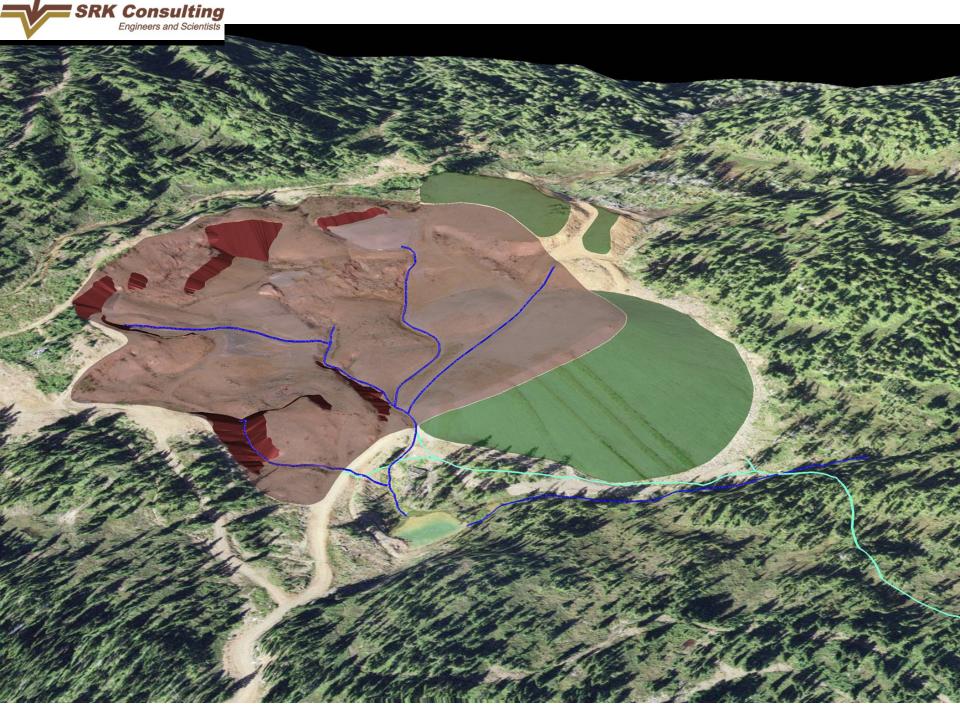
Michelle Murphy, EIT SRK Consulting Canada





- •Operated by Mount Washington Milling Company from 1964 to 1967
- •Ore output: copper-bearing sulphide, chalcopyrite.
- •Located near Courtenay, BC on Vancouver Island





































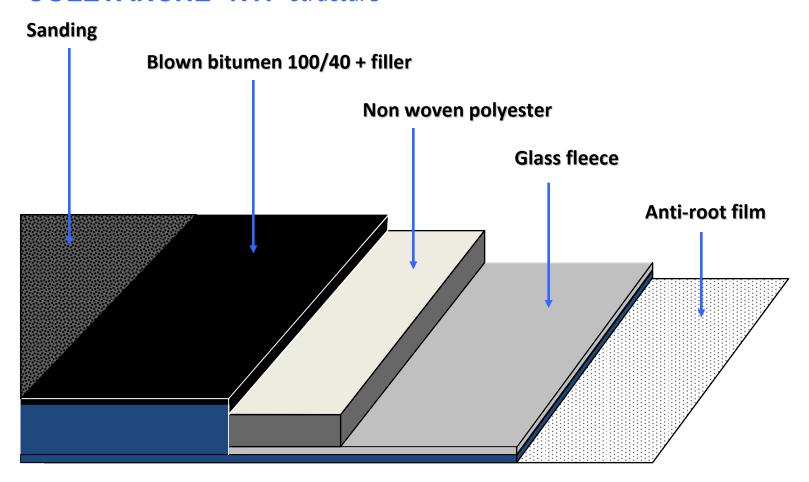






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COLETANCHE® NTP structure





2.1.4 STABILITY CALCULATION - FRICTION ANGLE

Friction angles between different protective materials and Coletanche are given in the next table:

	Standard	Unit	NTP1	NTP2	NTP3	NTP4	ES1	ES2	ES3
Internal friction angle	with different bu	ilding mat	erials						
Anchored membrane			03	Friction	angle				
Rolled sand	NF EN 495-2		39.5°	39.5°	39.5°	39.5°	39.5°	39.5°	39.5°
Crushed gravel	(Laboratory of the French Ministry of Agriculture)		40°	40°	40°	40°	40°	40°	40°
Dry soil		1\1.5	35°	35°	35°	35°	35°	35°	35°
Waterlogged soil	CEMAGREF	1\2	27°	27°	27°	27°	27°	27°	27°
Damp clay		1\3	20°	20°	20°	20°	20°	20°	20°
Dry alluvial aggregate		1\1.5	35°	35°	35°	35°	35°	35°	35°
Waterlogged alluvial aggregate		1\2	25°	25°	25°	25°	25°	25°	25°
Dry or waterlogged quarry materials		1 1	45°	45°	45°	45°	45°	45°	45°
Precast concrete – cobbles		1\1	45°	45°	45°	45°	45°	45°	45°
Non anchored membrane	NF EN 495-2								
Rolled sand			32	32	32	32	32	32	32
Water flow									
Manning Coefficient				83			83		

Table: Friction angles on Coletanche





