

**VAST MINERAL SANDS (Pty) Ltd - HEAVY MINERAL PROSPECTING,  
ALEXANDER BAY, NORTHERN CAPE**

**REHABILITATION**

**PHS CONSULTING**

**PAUL SLABBERT**

**B ART ET SCIEN (EAPSA, APHP & IAIA)**

**REHABILITATION PLAN**

<b>Aspect/Impact</b>	<b>Rehabilitation Measure</b>	<b>Monitoring Frequency and Responsibility</b>
Vegetation	Considering that intact vegetation will be voided by moving the drill site to an adjacent impacted area (micro-sitting) very little vegetation will be disturbed. The majority of the area has been intensively disturbed by mining. If vegetation is in conflict with a drill site, it will not be uprooted but rather cut back, to allow continued root growth. Due to the harsh environment no re-vegetation will take place.	Once-off, after site is completed, checked by on site Geologist
Backfill of drill hole	Drill holes will automatically fall in due to sandy nature of the area and it will be backfilled with left over drill material (Excess residue will be used first and topsoil used last) until level with natural ground.  Three months after drilling the rehabilitation team will visit each hole and do further backfilling where required avoiding open dangerous holes.	Immediately after backfilling and 3 months later checked by on site Geologist and rehabilitation team
Soil compaction	The drill rig will be at a drill hole for 2-3 hours. Compaction is therefore limited. After the hole is Backfilled the site will be raked by two workers to allow for the complete exposure of the substrate soil. Care should be taken not to damage vegetation during	Immediately after drill rig leave the site, checked by on site Geologist

	raking.	
New off-road tracks	No driving is allowed on the beach and within 100 m from the hwm of the sea. When a new off-road track was used to access a drill site, two workers will close and rake the tracks after use, to avoid other vehicles using the same route. Place obstructive stones or natural debris where new tracks turn of existing tracks to discourage new routes. Track closure needs to be substantial to block 4x4 vehicles from entering new areas.	Immediately when new track is no longer used, when drill rig don't need to use the same tracks to exist the site. Checked by on site Geologist. During 3 month follow-up check, closed new tracks need to be checked.
Erosion protection	Protect all areas susceptible to erosion within the drill site or on the off-road tracks and ensure that there is no undue soil erosion resultant from activities within and adjacent to the site. Retain shrubbery and vegetation wherever possible. Perform regular monitoring and maintenance of erosion control measures.	While working in the area, check by on site Geologist. Check 3 months later during follow-up.
Waste Removal	Clear the site of all inert waste. Remove from site all domestic waste and dispose of in the approved manner at a registered waste disposal site.	Immediately once-off, check by on site Geologist. Check 3 months later during follow-up.