MS 1: Manie Smit crossing

Project title:	P0088 – Manie Smit river crossing		
Method Statement for:	Construction of river crossing	**MS number:**	**01**
Date drafted:	25/6/2024	**2024 Revision:**	0
Description of actions required:	Construction of river crossing infrastructure including piping and stone-pitching		
Responsible party/ Contractor:	Contractor to be appointed or Fruitways Engineering		
Frequency of maintenances:	Construction date envisaged as below (see separate maintenance-only activity method statements)		
Location & description of work area:	Eikenhof farm, near Grabouw		
Required materials & equipment:	Geotextile containers, Composite geotextile reinforcing, concrete, stones, precast concrete piping and slabs, HDPE pipes, G5 material, excavator, loader, grader, roller		
Step-by-step plan of how the action(s) will be carried out:	<u>River crossing</u> • Clear vegetation and debris from the construction area, including the river banks and the path leading to the crossing • Construct a temporary diversion channel with geotextile containers to divert flow away from the construction area • Prepare/clean the stream bed and banks to the required dimensions for the pipe installation • Support piping with sand filled geotextile containers according to the design specifications • Place the pipes in the prepared positions in two layers to allow for low flow and medium flow scenarios • Ensure the concrete piping is properly aligned with the flow and road/path alignment. • Place HDPE pipes for water supply parallel to the crossing • Backfill the sides and top of op piping with sand filled geotextile containers and geotextile reinforcing • Stone-pitch side to protect against erosion • Following laying of the pipes and final wearing course (Concrete slabs), the flow will be re-instated to its pre-construction position and profile. • Vegetation removed to gain access will also be replaced as necessary, with locally indigenous species only. <u>Road leading to/from river crossing</u> • Clear vegetation and debris by widening the current cycling path leading to the crossing • Excavate crossing approach to achieved designed approach/depart angles • Place and grade soil and/or G5 material as path base and final course • Use roller to compact to design specification • Vegetation removed to gain access will also be replaced as necessary, with locally indigenous species only.		

Storage/ disposal of materials and waste:	• Concrete mixing must be located a safe distance from any watercourse. More than 32m. • All materials to be stored in contractor's site camp a safe distance from the watercourse. • Waste material to be discarded at an approved waste facility. • Any construction waste that enters the river channel must be collected and removed on a daily basis. • No storage of materials in the ephemeral watercourse may take place, other than what is being used at the time (e.g. rocks for gabion baskets) and such may only be stored within the 3m construction disturbance area. • Any construction waste that enters the river channel must be collected and removed on a daily basis • Machinery will be stored away from the construction site and within a controlled and monitored area • Measures must be in place to prevent the spillage or runoff of concrete, cement or other pollutants into the watercourse, and if this occurs, the material must be carefully removed, along with any contaminated soil