MATERIALS

GEOTEXTILE FABRIC: EITHER (i) COMPOSITE SEDIMENT FENCE FABRIC MANUFACTURED FROM A NON-WOVEN, POLYESTER OR POLYPROPYLENE GEOTEXTILE REINFORCED WITH A UV-STABILISED, WOVEN FABRIC OR POLYPROPYLENE MESH, OR (ii) NON-WOVEN FILTER CLOTH (MINIMUM 'BIDIM' A34 OR THE EQUIVALENT).

SUPPORT POSTS/STAKES: 1500mm^2 (MIN) HARDWOOD, 2500mm^2 (MIN) SOFTWOOD, OR 1.5kg/m (MIN) STEEL STAR PICKETS SUITABLE FOR ATTACHING FABRIC.

GEOTEXTILE BACKING MESH: WIRE OR STEEL MESH MINIMUM 14-GAUGE WITH A MAXIMUM MESH SPACING OF 200mm.

ADDITIONAL INTERNAL FILTER: MAY CONSIST OF TIGHTLY PACKED STRAW BALES, 25–75mm CLEAN AGGREGATE, GRAVEL-FILLED BAGS, OR OTHER MATERIAL SUFFICIENT TO PROVIDE ADEQUATE FILTRATION AND/OR SEPARATION OF SEDIMENT FROM THE OUTER GEOTEXTILE FILTER LAYER.

INSTALLATION

1. REFER TO APPROVED PLANS FOR LOCATION, AND CONSTRUCTION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.

2. INSTALL THE FILTER POND AS A COMPLETELY ENCLOSED STRUCTURE ON FLAT OR MILDLY SLOPING GROUND.

3. WHEREVER PRACTICABLE, LOCATE THE FILTER POND AT LEAST 50m FROM THE EDGE OF A WATER BODY. WHERE NOT PRACTICABLE, LOCATE THE FILTER POND AS FAR AS PRACTICABLE FROM ANY WATER BODY.

4. UNLESS OTHERWISE DIRECTED BY THE RESPONSIBLE ON-SITE OFFICER, EXCAVATE A 200mm WIDE BY 200mm DEEP TRENCH ALONG THE ALIGNMENT OF THE OUTER FILTER BARRIER, PLACING THE EXCAVATED MATERIAL ON THE INSIDE OF THE ENCLOSURE.

5. AROUND THE OUTSIDE OF THE TRENCH ADEQUATELY SECURE THE SUPPORT POSTS INTO THE GROUND AT A SPACEING NO GREATER THAN 2m.

6. IF NON-REINFORCED FILTER CLOTH IS TO BE USED AS THE MAIN FILTER BARRIER, THEN SECURELY ATTACH A BACKING MESH TO THE INSIDE OF THE SUPPORT POSTS FROM A CONTINUOUS LENGTH OF MESH. EXTEND THE MESH FROM NORMAL GROUND LEVEL TO THE MAXIMUM HEIGHT OF THE FILTER BARRIER.

7. USING A CONTINUOUS LENGTH OF GEOTEXTILE FABRIC, SECURELY ATTACH THE FABRIC TO THE INSIDE OF THE SUPPORT POSTS USING 25mm STAPLES OR TIE WIRE AT MAXIMUM 300mm SPACING WITH THE FABRIC EXTENDED AT LEAST 200mm INTO THE TRENCH. THE COMPLETED FILTER BARRIER SHOULD BE AT LEAST 450mm BUT NOT MORE THAN 700mm HIGH.

8. BACKFILL THE TRENCH AND TAMP THE FILL TO FIRMLY ANCHOR THE BOTTOM OF THE FABRIC TO PREVENT DISPLACEMENT OF THE FABRIC AND TO PREVENT THE FREE MOVEMENT OF WATER UNDER THE FABRIC.

9. IF AN INTERNAL FILTER IS SPECIFIED, PLACE THE FILTER AGAINST THE INSIDE THE MAIN FILTER BARRIER AS DIRECTED OR AS INDICATED IN THE APPROVED PLANS. THE INTERNAL FILTER MATERIAL SHOULD ABUT FIRMLY UP AGAINST THE GEOTEXTILE FABRIC AND SHOULD FORM A CONTINUOUS FILTER SYSTEM WITH NO MEASURABLE GAPS THAT MAY ALLOW WATER TO BYPASS THE FILTER.

MAINTENANCE

1. INSPECT THE FILTER POND REGULARLY AND AT LEAST DAILY DURING DE-WATERING OPERATIONS.

2. MAKE REPAIRS AS NEEDED TO THE FILTER BARRIER AND SUPPORT FRAME.

3. INSPECT THE FILTER MEDIUM FOR OBVIOUS LEAKS RESULTING FROM HOLES, TEARS OR JOINT FAILURE IN THE FABRIC.

4. REPAIR ANY TORN SECTIONS WITH A CONTINUOUS PIECE OF FABRIC PLACED INSIDE THE OLD FABRIC, EXTENDING AT LEAST FROM SUPPORT POST TO SUPPORT POST.

5. DISPOSE OF ALL SEDIMENT IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.

REMOVAL

1. REMOVE ALL ACCUMULATED SEDIMENT AND DISPOSE OF IT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

2. REMOVE ALL MATERIALS AND REPAIR DAMAGE TO THE GROUND SURFACE AS NECESSARY.

3. RE-SEED OR TURF THE DISTURBED GROUND AS NECESSARY TO MINIMISE THE RISK OF AN ONGOING EROSION HAZARD.

Drawn:	Date:		
GMW	May10	Filter Ponds	FP-02