

MATERIALS

SEDIMENT FENCE FABRIC: POLYPROPYLENE, POLYAMIDE, NYLON, POLYESTER, OR POLYETHYLENE WOVEN OR NON-WOVEN FABRIC, AT LEAST 700mm IN WIDTH AND A MINIMUM UNIT WEIGHT OF 140GSM. THE FABRICS SHOULD CONTAIN ULTRAVIOLET INHIBITORS AND STABILISERS TO PROVIDE A MINIMUM OF 6 MONTHS OF USEABLE CONSTRUCTION LIFE (ULTRAVIOLET STABILITY EXCEEDING 70%).

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

SUPPORT POSTS/STAKES: 1500mm² (MIN) HARDWOOD, 2500mm² (MIN) SOFTWOOD OR 1.5kg/m (MIN) STEEL STAR PICKETS SUITABLE FOR ATTACHING FABRIC.

AGGREGATE: 15 TO 25mm CLEAN GRAVEL OR AGGREGATE.

FILTER TUBE: MANUFACTURED FROM A NON-WOVEN GEOTEXTILE WITH OR WITHOUT UV-STABILISED REINFORCEMENT. WIDE STRIP TENSILE STRENGTH (AS3706.2) MINIMUM 20kN/m IN BOTH DIRECTIONS. PORE SIZE (EOS, O95, AS 3706.7) LESS THAN 90mm. MASS PER UNIT AREA (AS3706.1) MINIMUM 300GSM.

INSTALLATION (USING SEDIMENT FENCE FABRIC)

1. REFER TO APPROVED PLANS FOR LOCATION, EXTENT, AND REQUIRED TYPE OF FABRIC (IF SPECIFIED). IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, FABRIC TYPE, OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.

2. CLEAR THE LOCATION OF THE SEDIMENT TRAP. REMOVE TREES, STUMPS, ROOTS AND OTHER SURFACE AND SUB-SURFACE MATTER THAT WOULD INTERFERE WITH INSTALLING AND MAINTAINING THE TRAP.

3. TAKE NECESSARY STEPS TO ENSURE INFLOW CORRECTLY ENTERS THE SEDIMENT TRAP AND DOES NOT BYPASS THE TRAP.

4. EXCAVATE A 200mm WIDE BY 200mm DEEP TRENCH ALONG THE OUTLINE OF THE SETTLING CHAMBERS.

5. SECURE THE SUPPORT POSTS INTO THE GROUND SPACED NO GREATER THAN 1.5m.

6. IF SPECIFIED, SECURELY ATTACH THE SUPPORT WIRE OR MESH TO THE INSIDE FACE OF THE SUPPORT POSTS WITH THE MESH EXTENDING AT LEAST 200mm INTO THE EXCAVATED TRENCH.

7. ENSURE THE MESH AND FABRIC ARE ATTACHED TO THE INSIDE FACE OF THE SUPPORT POSTS EVEN WHEN DIRECTING THE FABRIC AROUND A CORNER.

8. WHEREVER POSSIBLE, CONSTRUCT THE SETTLING CHAMBER WALLS FROM A CONTINUOUS ROLL OF FABRIC. WHERE NECESSARY, JOIN THE FABRIC EITHER BY:

(i) ATTACHING EACH END TO TWO OVERLAPPING POSTS/STAKES WITH THE FABRIC FOLDING AROUND THE ASSOCIATED STAKE ONE TURN, AND WITH THE TWO STAKES TIED TOGETHER WITH WIRE; OR

(ii) OVERLAPPING THE FABRIC TO THE NEXT ADJACENT SUPPORT POST/STAKE.

9. SECURELY ATTACH THE FABRIC TO THE SUPPORT POSTS/STAKES USING 25mm STAPLES OR TIE WIRE AT MAXIMUM 150mm SPACING WITH THE FABRIC EXTENDED AT LEAST 200mm INTO THE TRENCH.

10. SECURELY ATTACH THE FABRIC TO THE SUPPORT WIRE/MESH, IF ANY, ALONG THE FULL LENGTH OF THE FABRIC AT A MAXIMUM SPACING NOT EXCEEDING 0.5m.

11. ENSURE THE CHAMBER WALLS ARE AT LEAST 450mm HIGH, BUT NOT MORE THAN 700mm HIGH.

12. BACKFILL THE TRENCH AND TAMP THE FILL TO FIRMLY ANCHOR THE BOTTOM OF THE FABRIC AND MESH TO PREVENT WATER FROM FLOWING UNDER THE CHAMBER WALLS.

INSTALLATION OF SPILL-THROUGH WEIRS

1. LOCATE THE SPILL-THROUGH WEIRS AT ALTERNATE ENDS OF THE SETTLING CHAMBERS.

2. ENSURE THE SPILL-THROUGH WEIR CREST IS AT LEAST 300mm ABOVE THE GROUND.

3. SECURELY TIE A HORIZONTAL CROSS MEMBER (WEIR) TO THE SUPPORT POSTS/ STAKES EACH SIDE OF THE WEIR. CUT THE FABRIC DOWN THE SIDE OF EACH POST/ STAKE AND FOLD THE FABRIC OVER THE CROSS MEMBER IN THE DIRECTION OF OVERFLOW. SECURELY TIE THE FABRIC TO THE SUPPORT POSTS AND CROSS MEMBER.

4. INSTALL A SUITABLE SPLASH PAD OR OTHER EROSION CONTROL MEASURES AT THE OUTLET OF THE FINAL SPILL-THROUGH WEIR TO CONTROL SOIL EROSION.

MAINTENANCE

1. INSPECT THE SEDIMENT TRAP AT LEAST WEEKLY AND AFTER ANY SIGNIFICANT RAIN. MAKE NECESSARY REPAIRS IMMEDIATELY.

2. REPAIR ANY TORN SECTIONS WITH A CONTINUOUS PIECE OF FABRIC.

3. WHEN MAKING REPAIRS, ALWAYS RESTORE THE SYSTEM TO ITS ORIGINAL CONFIGURATION UNLESS AN AMENDED LAYOUT IS REQUIRED OR SPECIFIED.

4. IF THE FABRIC IS SAGGING AT ANY POINT, THEN INSTALL ADDITIONAL SUPPORT POSTS/ STAKES.

5. REMOVE ACCUMULATED SEDIMENT IF THE SEDIMENT DEPOSIT EXCEEDS A DEPTH OF 200mm.

6. DISPOSE OF SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

REMOVAL

1. WHEN DISTURBED AREAS UP-SLOPE OF THE SEDIMENT TRAP ARE SUFFICIENTLY STABILISED TO RESTRAIN EROSION, THE SEDIMENT TRAP MUST BE REMOVED AND THE AREA REHABILITATED.

2. REMOVE ALL MATERIALS AND COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

3. REHABILITATE/REVEGETATE THE DISTURBED GROUND AS NECESSARY TO MINIMISE THE EROSION HAZARD.

Drawn:	Date:		
GMW	Apr-10	Coarse Sediment Trap	CST-02