PROPOSED DEVELOPMENT No.10 DANGAR STREET, WICKHAM STORMWATER MANAGEMENT PLANS

LEGEND					
	DENOTES ON-SITE DETENTION TANK				
	DENOTES ON-SITE RETENTION TANK				
	DENOTES DWELLING FOOTPRINT				
SW	DENOTES 100mm DIA. STORMWATER/SURFACE WATER SYSTEM PIPE AT 1% MIN. GRADE U.N.O.				
RW	DENOTES 100mm DIA. FULLY SEALED RAINWATER SYSTEM PIPE U.N.O.				
150 RW	DENOTES RAINWATER PIPE AND DIA. WHEN PIPE EXCEEDS 100mm DIA.				
150	DENOTES STORMWATER/SURFACE WATER PIPE AND DIA. WHEN PIPE EXCEEDS 100mm DIA.				
65 	DENOTES RISING MAIN AND PIPE DIA. U.N.O.				
100 ss	DENOTES SUBSOIL DRAINAGE LINE AND DIA. WRAPPED IN GEOFABRIC U.N.O.				
DP	DENOTES DOWNPIPE				
U	DENOTES INSPECTION OPENING WITH SCREW DOWN LID AT FINISHED SURFACE LEVEL				
cô	DENOTES INSPECTION OPENING WITH SCREW DOWN LID AT FINISHED SURFACE LEVEL FOR SYSTEM FLUSHING PURPOSES				
\boxtimes	STORMWATER PIT - SOLID COVER				
	STORMWATER PIT - GRATED INLET				
	DENOTES GRATED DRAIN				
	DENOTES ABSORPTION TRENCH				
И	NON RETURN VALVE				
\bigcirc	PUMP				
函	STOP VALVE (ISOLATION VALVE)				
¥	240v REQUIRED				
IL23.31	DENOTES LEVEL OF INLET /OUTLET OF STORMWATER PIPE. NOTE: UNLESS NOTED OTHERWISE, THE BASE OF THE PIT IS THE SAME AS THE PIPE INLET/OUTLET.				
DI	AL BEFORE YOU DIG				
DIAL BEFORE TOO DIG MPORTANT: THE CONTRACTOR IS TO MAINTAIN A CURRENT SET OF "DIAL BEFORE YOU DIG" DRAWINGS ON SITE AT ALL TIMES.					

GENERAL NOTES

- THESE PLANS SHALL BE READ IN CONJUNCTION WITH OTHER RELEVANT CONSULTANTS' PLANS, SPECIFICATIONS, CONDITIONS OF DEVELOPMENT CONSENT AND CONSTRUCTION CERTIFICATE REQUIREMENTS. WHERE DISCREPANCIES ARE FOUND ACOR CONSULTANTS (CC) MUST BE CONTACTED IMMEDIATELY FOR VERIFICATION
- WHERE THESE PLANS ARE NOTED FOR DEVELOPMENT APPLICATION PURPOSES ONLY, THEY SHALL NOT BE USED FOR OBTAINING A CONSTRUCTION CERTIFICATE NOR USED FOR CONSTRUCTION PURPOSES
- SUBSOIL DRAINAGE SHALL BE DESIGNED AND DETAILED BY THE 3 STRUCTURAL ENGINEER. SUBSOIL DRAINAGE SHALL NOT BE CONNECTED INTO THE STORMWATER SYSTEM IDENTIFIED ON THESE PLANS UNLESS APPROVED BY ACOR CONSULTANTS (CC)

STORMWATER CONSTRUCTION NOTES

- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH AS/NZS 3500 (CURRENT EDITION) AND THE REQUIREMENTS OF THE LOCAL COUNCIL'S POLICIES AND CODES
- THE MINIMUM SIZES OF THE STORMWATER DRAINS SHALL NOT BE 2 LESS THAN DN90 FOR CLASS 1 BUILDINGS AND DN100 FOR OTHER CLASSES OF BUILDING OR AS REQUIRED BY THE REGULATORY AUTHORITY
- THE MINIMUM GRADIENT OF STORMWATER DRAINS SHALL BE 1%, 3. UNLESS NOTED OTHERWISE
- COUNCIL'S TREE PRESERVATION ORDER IS TO BE STRICTLY ADHERED TO. NO TREES SHALL BE REMOVED UNTIL PERMIT IS OBTAINED
- 5. PUBLIC UTILITY SERVICES ARE TO BE ADJUSTED AS NECESSARY AT THE CLIENT'S EXPENSE
- ALL PITS TO BE BENCHED AND STREAMLINED. PROVIDE STEP IRONS 6. FOR ALL PITS OVER 1.2m DEEP
- MAKE SMOOTH JUNCTION WITH ALL EXISTING WORK
- 8. VEHICULAR ACCESS AND ALL SERVICES TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION
- SERVICES SHOWN ON THESE PLANS HAVE BEEN LOCATED FROM INFORMATION SUPPLIED BY THE RELEVANT AUTHORITIES AND FIELD INVESTIGATIONS AND ARE NOT GUARANTEED COMPLETE NOR CORRECT. IT IS THE CLIENT & CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL PRIOR TO CONSTRUCTION
- 10. ANY VARIATION TO THE WORKS AS SHOWN ON THE APPROVED DRAWINGS ARE TO BE CONFIRMED BY ACOR CONSULTANTS (CC) PRIOR TO THEIR COMMENCEMENT

RAINWATER RE-USE SYSTEM NOTES

- 1 RAINWATER SUPPLY PLUMBING TO BE CONNECTED TO OUTLETS WHERE REQUIRED BY BASIX CERTIFICATE (BY OTHERS)
- TOWN WATER CONNECTION TO RAINWATER TANK TO BE TO THE 2. SATISFACTION OF THE REGULATORY AUTHORITY. THIS MAY **REQUIRE PROVISION OF:**
- PERMANENT AIR GAP 2.1.
- BACKFLOW PREVENTION DEVICE 2.2.
- NO DIRECT CONNECTION BETWEEN TOWN WATER SUPPLY AND THE 3. RAIN WATER SUPPLY
- 4. AN APPROVED STOP VALVE AND/OR PRESSURE LIMITING VALVE AT THE RAINWATER TANK
- PROVIDE AT LEAST ONE EXTERNAL HOSE COCK ON THE TOWN 5. WATER SUPPLY FOR FIRE FIGHTING
- PROVIDE APPROPRIATE FLOAT VALVES AND/OR SOLENOID VALVES 6. TO CONTROL TOWN WATER SUPPLY INLET TO TANK IN ORDER TO ACHIEVE THE TOP-UP INDICATED ON THE TYPICAL DETAIL
- ALL PLUMBING WORKS ARE TO BE CARRIED OUT BY LICENSED 7. PLUMBERS IN ACCORDANCE WITH AS/NZS3500.1 NATIONAL PLUMBING AND DRAINAGE CODE
- PRESSURE PUMP ELECTRICAL CONNECTION TO BE CARRIED OUT BY 8. A LICENSED ELECTRICIAN
- 9. ONLY ROOF RUN-OFF IS TO BE DIRECTED TO THE RAINWATER TANK . SURFACE WATER INLETS ARE NOT TO BE CONNECTED
- 10. PIPE MATERIALS FOR RAINWATER SUPPLY PLUMBING ARE TO BE APPROVED MATERIALS TO AS/NZS3500 PART 1 SECTION 2 AND TO BE CLEARLY AND PERMANENTLY IDENTIFIED AS 'RAINWATER'. THIS MAY BE ACHIEVED FOR BELOW GROUND PIPES USING IDENTIFICATION TAPE (MADE IN ACCORDANCE WITH AS2648) OR FOR ABOVE GROUND PIPES BY USING ADHESIVE PIPE MARKERS (MADE IN ACCORDANCE WITH AS1345)
- EVERY RAINWATER SUPPLY OUTLET POINT AND THE RAINWATER 11. TANK ARE TO BE LABELED 'RAINWATER' ON A METALLIC SIGN IN ACCORDANCE WITH AS1319
- 12. ALL INLETS AND OUTLETS TO THE RAINWATER TANK ARE TO HAVE SUITABLE MEASURES PROVIDED TO PREVENT MOSQUITO AND VERMIN ENTRY

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	C	ISSUED FOR DEVELO	OPMENT APPLICATION	18.10.18	SJ PB	BK BK
	E	S4.55 SUBMISSION		11.12.20	SJ	BK
NEWCASTLE COUNCIL REQUIREMENTS						
STORMWATER - WATER CYCLE MANAGEMENT PLAN						
SITE AREA (m²)					_	
TOTAL IMPERVIOUS AREA						
STORAGE REQUIREMENT :						
BASED ON FIGURE 1 & TABLE 2 OF NEWCASTLE CITY COUNCILS DCP, SECTION 7.06.02(c).						
) PERCENTAGE IMPERVIOUS = 100% (FIGURE 1)						
ii) VOLUME REQUIREMENT = 25mm (FIGURE 1) iii) SITE AREA = 2904m ²						
iv) MINIMUM STORAGE VOLUME = 72.6m ³ (2904 x 0.025 x 72.6)						
STORMWATER: PEAK FLOWRATE 100 YEAR ARI DESIGN STORM EVENT						
i) SITE AREA = 2904m ²						
íi) 100% IMPERVIOUS						
STORAGE DRAWDOWN:						
i) REQUIREMENT 0.023 L/S PER 1000m ² OF CATCHMENT ii) DRAWDOWN RATE = 0.023 x 2.9 = 0.067 L/s						
ii) PRIMARY DRAWDOWN CONNECTION TO TOILETS						
DESIGN PREPARED IN ACCORDANCE WITH NEWCASTLE CITY COUNCIL'S DCP						
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RAINWATER SUPPLY AND RAINWATER TANK NOTES

RAINWATER QUALITY IS DEPENDENT ON IMPLEMENTING AN APPROPRIATE INSPECTION, FILTRATION AND MAINTENANCE PROGRAM. THE SYSTEM DEPICTED IN THIS DOCUMENT IS SPECIFICALLY FOR THE FOLLOWING APPLICATIONS FOR RAINWATER WITHIN AN URBAN ENVIRONMENT:

(A) LAUNDRY WASHING MACHINE CONNECTION (COLD WATER USE).
(B) TOILET FLUSHING
(C) OUTDOOR USE
(D) POOL/POND/SPA TOP UP
(E) GARDEN IRRIGATION

IF THE WATER IS TO BE USED FOR DRINKING AND FOOD PREPARATION, IT SHOULD COMPLY WITH THE AUSTRALIAN DRINKING WATER GUIDELINES. THE DECISION TO USE RAINWATER FOR DRINKING AND FOOD PREPARATION, IN AN URBAN MAIN WATER AREA, IS UNDERTAKEN AT THE RISK AND RESPONSIBILITY OF THE PROPERTY OWNER.

PIPES, OUTLETS AND FITTINGS SUPPLYING RAINWATER SHALL BE CLEARLY IDENTIFIED AND BE IN ACCORDANCE WITH AS/NZS 3500.1 AND AS/NZS 3500.3 PLUMBING AND DRAINAGE STANDARDS.

MATERIALS AND PRODUCTS USED IN RAINWATER TANK INSTALLATION TO CONNECT TO THE WATER SUPPLY SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL PLUMBING PRODUCTS CERTIFICATION SCHEME AND BE OF AN APPROVED TYPE AS SPECIFIED IN THE APPROPRIATE STANDARD LISTED IN AS/NZS 5200.000, IN ACCORDANCE WITH THE PLUMBING CODE OF AUSTRALIA.

ALL RAINWATER AND STORMWATER PIPES SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF AS/NZS 3500.3 AND BY A LICENSED PLUMBER UNLESS OTHERWISE APPROVED BY THE LOCAL REGULATORY AUTHORITY AND/OR COUNCIL.

ROOF GUTTERS TO BE ONE CONTINUOUS LENGTH WITH NO JOINTS. WHERE THIS IS NOT PRACTICAL LAP JOINTS SHALL BE IN THE DIRECTION OF FLOW TO THE NEAREST DOWNPIPE.

DOWNPIPES DISCHARGING TO THE RAINWATER TANK FOR WET SYSTEMS (WATER CHARGED) SHALL HAVE A MINIMUM 100 MM VERTICAL CLEARANCE BETWEEN THE RAIN HEAD AND THE TANK INLET. THE STORMWATER SYSTEM SHALL MAKE PROVISION TO DRAIN STAGNATE WATER DURING DRY PERIODS BY WAY OF A CAPPED RELIEF ACCESS POINT AT THE LOWEST LEVEL OF STORMWATER DRAINAGE SYSTEM.

RAINWATER TANK LOCATION AND PLACEMENT OF TANK OVERFLOW PIPE SHALL BE SELECTED TO ENSURE STORMWATER DOES NOT POND UNDER BUILDING FLOORS OR FLOOD AROUND FOUNDATIONS OF BUILDINGS.

A PHYSICAL AIR BREAK OR NON-RETURN VALVE ON THE OUTLET FROM THE TANK OVERFLOW IS REQUIRED BEFORE CONNECTING TO THE STORMWATER DRAINAGE SYSTEM. RAINWATER TANK OPENINGS SHALL BE SECURED TO PREVENT INAPPROPRIATE ENTRY BY ANIMALS, INSECTS AND RUBBISH. ALL RAINWATER TANKS SHALL BE SEALED TO PREVENT SURFACE WATER AND GROUND WATER ENTERING THE RAINWATER TANK.

THE RAINWATER SERVICE PIPE CONNECTED FROM A RAINWATER TANK TO THE PLUMBING FIXTURES SHALL COMPLY WITH AS/NZS 3500.1.

PRESSURE PUMP SHALL COMPLY WITH THE REQUIREMENTS OF HB 230-2006 AND AS/NZS 3500.1.

RAINWATER OUTLETS SHALL BE IDENTIFIED AS 'RAINWATER' WITH A LABEL. RAINWATER TAPS SHALL BE IDENTIFIED BY A GREEN COLOURED INDICATION WITH THE LETTERS 'RW'. SIGNS SHALL COMPLY WITH AS1319.

BACKFLOW PREVENTION DEVICES SHALL COMPLY WITH AS/NZS 3500.1 SECTION 4.

RECOMMENDED PRE-TREATMENT DEVICES FOR CLEANING RAINWATER INCLUDE SCREENED DOWNPIPE RAIN HEADS OR OTHER SUITABLE LEAF AND DEBRIS DEVICES. RECOMMENDED SCREEN MESH TO BE 4-6 MM AND DESIGNED TO BE SELF CLEANING.

RAINWATER TANK MAINTENANCE

RECOMMENDED PREVENTATIVE MEASURES TO REDUCE CONTAMINATION SHALL INCLUDE:

(A) KEEPING ROOF CATCHMENTS CLEAR OF OVERHAU VEGETATION AS BRANCHES PROVIDE ROOSTING POI AND CAN PROVIDE ACCESS FOR SMALL ANIMALS SUC CATS AND POSSUMS;

(B) PREVENTING ACCESS BY SMALL ANIMALS AND BIF RAINWATER TANKS BY SCREENING ALL TANKS INLET OVERFLOWS, KEEPING ACCESS HATCHES CLOSED A MAINTAINING THE INTEGRITY OF TANK ROOFS;

(C) PREVENTING ENTRY OF SURFACE RUN-OFF FROM THAN THE ROOF CATCHMENT INTO BELOW-GROUND SHOULD BE SECURE AND THE SIDES AND BOTTOMS BE SEALED TO PREVENT INGRESS; AND

(D) SWIMMING IN STORAGE TANKS BE PREVENTED, AN HUMAN ACCESS CAN GREATLY INCREASE RISKS OF C

ONCE A RAINWATER TANK HAS BEEN INSTALLED, IT IS THAT THE FOLLOWING COMPONENTS OF THE ROOF (TANKS BE MAINTAINED REGULARLY:

(A) GENERALLY GUTTERS WILL NEED CLEANING AS W INSPECTION. IF INSPECTION FINDS LARGE AMOUNTS MATERIAL OR OTHER DEBRIS, THEN INSPECTION AND FREQUENCY MAY NEED TO BE INCREASED.

(B) CHECK ROOF FOR THE PRESENCE OF ACCUMULA INCLUDING LEAF AND OTHER PLANT MATERIAL. ACCU MATERIAL SHOULD BE CLEARED. IF TREE GROWTH H OVERHANGING BRANCHES THESE SHOULD BE PRUNE

(C) TANK INLETS, INSECT-PROOFING AND LEAF FILTER THESE SHOULD BE CLEANED AND REPAIRED.

(D) INSPECT AND CHECK STRUCTURAL INTEGRITY OF INCLUDING THE ROOF AND ACCESS COVER. ANY HO SHOULD BE REPAIRED.

(E) INSPECT AND CHECK FOR EVIDENCE OF ACCESS I OR INSECTS INCLUDING THE PRESENCE OF MOSQUIT PRESENT, IDENTIFY AND CLOSE ACCESS POINTS. IF EVIDENCE OF ALGAL GROWTH (GREEN), FIND AND CL LIGHT ENTRY.

(F) CHECK PIPEWORK FOR STRUCTURAL INTEGRITY. PIPEWORK THAT ARE NOT SELF-DRAINING SHOULD B

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Broad Scale Development Self-Assessment



Checklist - Water Sensitive Urban Design

This checklist is a self-assessment checklist against the design criteria for water sensitive design in Newcastle Development Control Plan 2012 – Section 7.06 Stormwater and Section 7.07 Water Efficiency. A completed checklist is a mandatory submission requirement for developments of a scale greater in intensity than dual occupancies. However a completed checklist may be requested for other developments in particular circumstances.

Site	/Project Name:	No.10 DANGAR STREET, WICKHAM			
Арр	licant:				
ITEM			Y	N	NA
1	Integration of the	e whole water cycle			
	Stormwater Manage proposed developm Opportunities for or	ement and WSUD principles have been integrated into the nent. In site water re-use have been identified and utilised.			
2	Management and	d minimisation of hydrologic impacts			
	Hydrologic Objectiv shown, design ever shown, appropriate	es have been identified and addressed (impervious areas nts indicated, conveyance requirements identified, peak flows ly sized on-site retention etc.).			
	High flows have be overflow disposal to	en catered for (bypass structures, overland flow paths, b legal point of discharge shown etc.).			
	Impacts upon receiving environment have been determined and minimised (erosion protection, dissipation of concentrated flows).				
3	Management and	d minimisation of ecological impacts			
	Water Quality Mana (MUSIC modelling I DCP)	agement Objectives have been identified and addressed results submitted, site discharge controls in accordance with			
	A treatment train ap developments).	pproach has been developed where practicable (larger			
	Appropriate use of runoff/pollution at o	source controls to minimise the generation of excessive r near its source.			
4	Maintenance and	d/or enhancement of visual and social amenity			
	WSUD has been in	tegrated into landscape form.			
	Multiple use assets retention ponds, co	and/or corridors are proposed (verge side swales, bio- nstructed wetlands etc.).			
	Public health and sa depths/velocities, st	afety issues considered and addressed (batter slopes, water tagnant water etc.).			
5	Minimisation of	whole of life asset costs			
	Maintenance requir maintenance acces	ements are considered (maintenance plans provided, s point for vehicles identified).			
	Asset life cycle cos	t determined.			
	Asset ownership an	a responsibility defined and agreed.	┼┝┥		μ¥
	Cost effectiveness	or strategy evaluated and maximised.			
6	Provision of alte	rnative sources of water/mains water use reduced			
	Rainwater harvestir (number of people	ng consistent with expected reuse opportunity & DCP using site, type of development etc.).			
	Water tank reticulat reuse fit for purpose	ed to new toilets, laundry and taps where appropriate (water e).			
	Water reused in ind (e.g. vehicle washir	ustrial/commercial developments where practicable.			

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# **GENERAL INSTRUCTIONS**

- 1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ 7. IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.
- CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 1998 (BLUE BOOK).
- 3. ALL SUBCONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

# LAND DISTURBANCE INSTRUCTIONS

- 4. DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY 2) METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
- 5. ACCESS AREÁS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
- ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.
- WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE:
   A) INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN.
- B) CONSTRUCT THE STABILISED SITE ACCESS.
- CONSTRUCT THE STABILISED SITE ACCESS.CONSTRUCT DIVERSION DRAINS AS REQUIRED.
- D) INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB INLETS.
- E) INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE DROP INLET PITS.
- F) CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN.
- G) UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE.
- H) GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
- REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
- 5. ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY SILTATION FENCING AND CATCH DRAIN SPACING.
- 6. ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER.

# SITE MAINTENANCE INSTRUCTIONS

- THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO:
- A) ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS.
- B) REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS.
   C) REMOVE TRAPPED SEDIMENT WHENEVER THE
- REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURE HAS BEEN EXCEEDED.
   ENSURE REHABILITATED LANDS HAVE
- D) ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS NECESSARY.
   E) CONSTRUCT ADDITIONAL EROSION AND/OR
- E) CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT
- F) MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
   THE SITE SUPERINTENDENT WILL KEEP A LOGBOOK
- MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:
- A) THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
- B) THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS.
- C) THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE.
- D) THE NEED FOR DUST PREVENTION STRATEGIES.
   E) ANY REMEDIAL WORKS TO BE UNDERTAKEN.
- THE LOGBOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

## SEDIMENT CONTROL INSTRUCTIONS

- 9. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE.
- 10. SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
- SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
- STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS
- WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE.
- 14. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
- ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.

# SOIL EROSION CONTROL INSTRUCTIONS

- 16. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTED, THAN:
  - 2(H):1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES
  - 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16 METRES.
  - 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 16 AND 20 METRES.
  - 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES.
- 17. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI, TIME OF CONCENTRATION STORM FVENT
- 8. WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUNDCOVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5-1 OF "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", DEPT OF HOUSING 1998 (BLUE BOOK). FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
- 19. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.1 (60% GROUND-COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION.
- 20. ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.

# SOIL EROSION CONTROL INSTRUCTIONS cont.

- 21. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A 22. FOR AREAS OF SHEET FLOW USE THE FOLLOWING
- 22. FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY COVER: JAPANESE MILLET 20 KG/HA AND OATS 20 KG/HA.
- 23. PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY.
- 24. REVEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.

## WASTE CONTROL INSTRUCTIONS

- 25. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST WEEKLY. DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.
- 26. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS, FLOOD PRONE AREAS, STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS.
- 27. ALL SITE STAFF AND SUB-CONTACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED.
- 28. ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
- PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

### PROCEDURE FOR DE-WATERING

- ENSURE PERMISSION FOR DE-WATERING IS RECEIVED FROM AUTHORITIES BEFORE PUMPING OUT.
- AN ON-SITE TREATMENT PROCESS DISCHARGING TO THE STORMWATER SYSTEM WILL BE IMPLEMENTED. ALL SITE WATERS DURING CONSTRUCTION WILL BE CONTAINED ON SITE AND RELEASED ONLY WHEN pH IS BETWEEN 8.5 & 6.5, SUSPENDED SOLIDS ARE LESS THAN 50mg/L, TURBIDITY LESS THAN 100 NTU'S, OIL AND GREASE LESS THAN 10mg/L AND BIOCHEMICAL OXYGEN DEMAND (BOD5) LESS THAN 30mg/L (FOR STORMS LESS INTENSE THAN 1 IN 5 YEAR EVENTS).
- METHODS OF SAMPLING AND ANALYSIS OF WATER QUALITY WILL BE IN ACCORDANCE WITH THE APPLICABLE METHOD LISTED IN THE EPA PUBLISHED APPROVED METHODS FOR THE SAMPLING ANALYSIS OF WATER POLLUTANTS IN NEW SOUTH WALES.
- 4. WHERE LABORATORY ANALYSIS IS REQUIRED AS INDICATED BY IN-SITU TESTING, APPROPRIATE SAMPLE BOTTLES AND PRESERVATIVES WILL BE USED AND GUIDANCE FOR THE SAMPLING METHOD OBTAINED FROM APPLICABLE PARTS OF AS5667.1 AND AS5667.6. ANALYSIS WILL BE UNDERTAKEN WHERE PRACTICAL BY A NATA REGISTERED LABORATORY CERTIFIED TO PERFORM THE APPLICABLE ANALYSIS.
- A FURTHER INSPECTION WILL BE CARRIED OUT DURING A STORM EVENT (DURING WORK HOURS WHERE POSSIBLE) TO ENSURE CONTROLS ARE COPING WITH THE EVENT. THIS APPLIES TO ANY RAIN EVENT AS WELL.
- AS EXCAVATION TO TOP SOIL PROGRESSES, ANY WATER COLLECTED AT THE BOTTOM OF EXCAVATIONS WILL BE DIVERTED TO A TEMPORARY SEDIMENTATION BASIN OR SETTLEMENT TANK. IF THE WATER CONTAINS ONLY SEDIMENTS, IT WILL BE FILTERED AND PUMPED TO STORMWATER. BEFORE THIS CAN HAPPEN IT MUST CONTAIN LESS THAN 50mg/L TOTAL SUSPENDED SOLIDS.
- POLLUTED WATER MUST NOT ENTER THE STORMWATER SYSTEM. IN SOME CIRCUMSTANCES, A LIQUID WASTE COMPANY MAY BE REQUIRED TO COLLECT CONTAMINATED WATER FOR DISPOSAL AT A LICENSED TREATMENT FACILITY

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