AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND	F	OR USE ACROSS THE SITE	
EROSION. 2. SUITABLE DRAINAGE CONTROL MEASURES WILL BE IN PLACE AT ALL TIMES	MANAGEMENT TYPE	DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS	
TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.		I) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE	_
<ol> <li>SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.</li> </ol>	Avoidance Controls	<ol> <li>APPLICATION OF IOM BUFFER ZONES TO MAIN DRAINS WHERE POSSIBLE</li> <li>USING SMALL WORKING AREAS</li> <li>WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED</li> </ol>	
DISCHARGES 4. WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO		WET WEATHER I) USE OF UPSTREAM INTERCEPTOR DRAINS AND	-
EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.		DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT PIPES	
<ol> <li>NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.</li> <li>PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED</li> </ol>	Source Controls:	<ul><li>2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS:</li><li>A) SAND BAGS</li><li>B) OYSTER BAGS FILLED WITH GRAVEL</li></ul>	
IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE. 7. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN		C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE	
DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH		SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING STOCKPILES WITH SILT FENCING	
PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS. 8. VEGETATION WILL NOT BE STRIPPED FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.		5) WEATHERING OFF / SEALING PEAT STOCKPILES 1) INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED	
EXCAVATIONS 9. WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO		SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS	
REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.		<ul><li>B) OYSTER BAGS FILLED WITH GRAVEL</li><li>C) FILTER FABRICS</li><li>D) STRAW BALES</li></ul>	
EXPOSED GROUND & STOCKPILES 10. The amount of exposed ground and temporary stockpiles open at any one time will be minimised, as far as practicable.	IN-LINE CONTROLS:	E) FLOW LIMITERS F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR	
SITE TRACKS		APPROPRIATE SYSTEMS. 3) SILT FENCES, FILTER FABRICS 4) IN STREAM SEDIMATS	
<ol> <li>USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.</li> <li>CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.</li> </ol>		5) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS 5) ATTENUATION LAGOONS	
Refueling I3. Refuelling of mobile plant will be completed in designated		6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS	
REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES. 14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS		<ol> <li>TEMPORARY SUMPS</li> <li>ATTENUATION PONDS</li> <li>TEMPORARY STORAGE LAGOONS</li> </ol>	
REQUIRED.	WATER TREATMENT Controls:	4) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 5) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR	
<ul> <li>I5. CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR.</li> <li>I6. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED</li> </ul>		APPROPRIATE SYSTEMS. 6) SILT DEWATERING BAGS 1) LEVELSPREADERS	
APPROPRIATELY ON SITE. IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING	OUTFALL CONTROLS:	<ol> <li>2) BUFFERED OUTFALLS</li> <li>3) VEGETATION FILTERS</li> <li>4) SILT DEWATERING BAGS</li> </ol>	
STEPS WOULD BE ADHERED TO:		5) FLOW LIMITERS AND WEIRS	
STOP - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.			
<u>CONTAIN</u> - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND THE SOURCE OF POLLUTION.			
$\underline{NOTIFY}$ - The relevant authorities (Site Manager / Fisheries / NPWS / Local Authority etc.) should be notified immediately to ensure that			
MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE AREAS. DRAINAGE NOTES:			
<ul> <li>ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S</li> <li>SPECIFICATION (I.E. BY OTHERS).</li> <li>SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON</li> </ul>			
SITE. THE LEVEL OF SILT IN RUNOFF DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE		LEVEL SPREADER REFER TO DETAIL J	SP-MH TW
TEMPORARILY MANAGED BY PLACING SILT FENCES, STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. MOBILE			0
SILTBUSTER SYSTEM TO BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO.			
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<ol> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FERNCIS/OR SIMULA APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FERNCES TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.</li> <li>SUITABLE PREVENTION MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.</li> <li>DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE LACREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.</li> <li>WHERE POSSIBLE, A BUFFER ZONE OF &gt;20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES.</li> <li>BATTENS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN 1: 1.5 TO 1: 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUTT OR REVENT SCOURING. IN STEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDUCE FLOW VELCOITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. WHERE MECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO DISCHARGE.</li>       SCHTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REM</ol>			
<ol> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCING TO BE EMPLOYED IN ALLI INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILL LOADINGS BEING GENERATED DURING THE CONSTRUCTION INCREASED SILL LOADINGS WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>SUTABLE PREVENTION MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS. REGULAR CROSS DATINS TO BE LOCATED ALONG ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS. REGULAR CROSS DRAINS TO BE ACREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.</li> <li>WHERE POSSIBLE, A BUFFER ZONE OF &gt;20M TO ANY EXISTING WATERCOORSE WILL BE REQUIRED WHERE WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.</li> <li>MATERCOORSE WILL BE REQUIRED WHERE WORE LAAD DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN 1: 1.5 TO 1: 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.</li> <li>TRACK STO FALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT FONDS AND SILT TRAPS, PRIOR TO DISCHARGE.</li> <li>SETTLEMENT PONDS TO BE CONSTRUCTED FOR SILT REMOVAL AT TURBINE BASES AND HASUES TO MITIGATE SILT RENCE</li></ol>			
<ol> <li>SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR AT THE SAME TIME AS THE ACCESS TRACKS. INTERIM MEASURES SUCH AS THE PLACEMENT OF STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCING TO BE EMPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTIAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION INCREASED SILT TO RECEIVING WATERCONSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>SUTABLE PREVENTION MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCONSES. SEE NOTES ON POLLUTION PREVENTION.</li> <li>INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS, REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DAIACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ADIACENT TO THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER VILL NOT DE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.</li> <li>WHERE POSSIBLE, A BUFFER ZONE OF &gt;20 M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITCHES.</li> <li>BATTERS OF ALL PROPOSED SWALES / DITCHES.</li> <li>BATTERS OF ALL PROPOSED SWALES / DITCHES.</li> <li>TRACK SIDE SWALES / DITCHES TO BE SHALLOW MITH MODERATE GRADIENTS TO REVENT SCOURING. IN STEEP PAREAS CHECK DAMS SIDULD BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. WHERE RECENSERTY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMEN</li></ol>			

