















POLLUTION PREVENTION DRAWING LEGEND: ROADWAY SURFACING DESIGN AND CONSTRUCTION WATERCOURS NOTES: ENGINEER'S SPECIFICATION (I.E. BY OTHERS) WATERCOURSE 75M BUFFER SITE MANAGEMENT PROPOSALS ARE SPARE STRAW BALES/SILT FENCING/ OR SIMILAR INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND D BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF STREAM FLOW DIRECTION URING CONSTRUCTION IS TO BE MONITORED VISUALLY GROUNDWATER POLLUTION, SILTATION AND ND EXCESSIVE SILT LEVELS IN ANY AREA TO BE EMPORARILY MANAGED BY PLACING SILT FENCES, SUITABLE DRAINAGE CONTROL MEASURES SWALES/DOWNSTREAM COLLECTOR DRAIN STRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS SHOULD BE IN PLACE AT ALL TIMES TO DIRECTION OF FLOW AT THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM PREVENT CONVEYANCE OF SIGNIFICANT D BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO VOLUMES OF SILT TO OFF SITE RECEIVING SETTLEMENT POND - LEVEL SPREADER SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OF WATERCOURSES. T THE SAME TIME AS THE ACCESS TRACKS, INTERIM CHECK DAM 'TYPE A' SILTY WATER CAN ARISE FROM EASURES SUCH AS THE PLACEMENT OF STRAW CHECK DAM 'TYPE B' DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY ALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR PROPOSED CULVERT ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EXISTING CROSSING PROPOSED STOCKPILES PLANT AND WHEEL WASH SITE ROADS/TRACKS, AND DISTURBANCE MPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT TREATED WATER DISCHARGE O CONSTRUCT THE ACCESS TRACKS IS LIKELY TO OF EXISTING FIELD DRAINS AND DITCHES. REFER TO DETAIL B SETTLEMENT POND AUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH DISCHARGES 4. WATER CONTAINING SILT WILL NOT BE NOREASED SILT LOADINGS BEING GENERATED DURING PHIMPING SHIMP LARGE DRAINAGE ARROWS PUMPED DIRECTLY TO ANY NATURAL SUITABLE PREVENTION MEASURES SHOULD BE IN WATERCOURSE. ALL DISCHARGES TO BE PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SITE BOUNDARY MADE OVER OPEN GROUND OR INTO SIGNIFICANT VOLUMES OF SILT TO RECEIVING EXISTING FIELD DRAIN WITH SILT TRAP A WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION PROPOSED ROAD A MINIMUM OF 20M FROM NEAREST INTERCEPTOR SWALES / DITCHES TO BE USED TO THIRD ROAD WATERCOURSE UNLESS OTHERWISE OLLECT UPSTREAM SURFACE WATER FLOWS, REGULAR FOURTH ROAD ROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS NO EXCAVATED MATERIAL IS TO BE ILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE STORED WITHIN ANY SURFACE WATER VATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD. SILT FENCE RAIN OUTFALL POINTS. PUMPED WATER WILL BE DIRECTED INTO DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS TRACK SIDE DITCHES AND TREATED IN REFER TO SETTLEMENT PONDS AND VEGETATION IRAINS TO BE LOCATED ALONG ACCESS TRACKS TO SWALES PRIOR TO OVERLAND DISCHARGE REVENT EXCESSIVE VOLUMES OF WATER COLLECTING I PUMPING OF CLEAN WATER FROM DETAIL F HE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE DIBE AGREED WITH THE ENGINEER ON SITE, SURFACE VATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY COMPLETED IN A MANNER THAT DOES NOT O EXISTING WATERCOURSES. CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE WHERE POSSIBLE, A BUFFER ZONE OF >20M TO DONE BY REDUCING THE FLOW VELOCITIES NY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OR BY USE OF SPLASH PLATES AND ER LAND DISCHARGES ARE PROPOSED FROM ACCESS OTHER SIMILAR DISCHARGE CONTROLS. RACK SWALES / DITCHES. VEGETATION WILL NOT BE STRIPPED BATTERS OF ALL PROPOSED SWALES / DITCHES FROM EXISTING DRAINS/DITCHES UNLESS D HAVE A SLOPE OF RETWEEN L+15 TO L+2. ABSOLUTELY NECESSARY. EPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE EFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES. TRACK SIDE SWALES / DITCHES TO BE SHALLOW WHERE DEEP EXCAVATIONS ARE PROPOSED ITH MODERATE GRADIENTS TO PREVENT SCOURING. IN CUT-OFF DRAINS WILL BE USE TO REDUCE FLOW DIRECTION TEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO MITIGATION / DRAINAGE COINTROLS AVAILABLE REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL ENTERING THE EXCAVATION. THIS WILL BE FOR USE ACROSS THE SITE SILT CONTAINMENT. WHERE NECESSARY THESE HAVE THE CASE AROUND TURBINE BASE EEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT EXCAVATIONS. DESCRIPTION OF SUDS DRAINAGE CONTROL ONDS AND SILT TRAPS, PRIOR TO DISCHARGE. MANAGEMENT LYPE METHODS SETTLEMENT PONDS TO BE CONSTRUCTED FOR EXPOSED GROUND & STOCKPILES SILT REMOVAL AT TURBINE BASES AND HARD STAND THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY APPLICATION OF 50M BUFFER ZONES TO NATURAL . DRAWINGS ISSUED ARE FOR PLANNING REAS. POND SIZES DEPENDS ON CATCHMENT AREA ATERCOURSES WHERE POSSIBLE APPLICATION PURPOSES ONLY. ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE. FRUED SAMPLE POND SIZES SHOWN ON DRAWING D501 2) APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS . COPYRIGHT, ALL RIGHTS RESERVED. NO PART AVOIDANCE STRAW BALES / OR SIMILAR AND SILT FENCES T WHERE POSSIBLE HERE WITH MAY BE COPIED OR REPRODUCED E USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT 3) USING SMALL WORKING AREAS PARTIALLY OR WHOLLY IN ANY FORM UNOFF, SILT FENCES MAY BE REMOVED WHEN SUITABLE WORKING IN APPROPRIATE WEATHER, AND SUSPENDING WHATSOEVER WITHOUT THE PRIOR NOTICE OF USE OF TRACK SIDE SWALES WITH CHECK GETATION COVER IS ESTABLISHED. ERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED DAMS, AND/OR FILTRATION CHECK DAMS THE COPYRIGHT OWNER HYDRO-ENVIRONMENTAL SILT FENCES TO BE PROVIDE ALONG EDGE OF NET WEATHER WILL REDUCE SILT IN RUNOFF WATER AS XISTING WATERCOURSE WHERE WORKS COMES WITHIN) USE OF UPSTREAM INTERCEPTOR DRAINS AND **PROPOSED** 3. DO NOT SCALE OFF THIS DRAWING. FIGURED REQUIRED. 15M OF EDGE OF ANY DITCH / EPHEMERAL CHANNELS OWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, 12 CHECK DAMS TO BE INSPECTED AND SLOPES OF THE SWALES / DITCHES TO BE METRIC DIMENSIONS ONLY SHOULD BE TAKEN OFF VEE-DRAINS, DIVERSION DRAINS, FLUMES AND CULVERT CLEANED REGULARLY. THIS DRAWING EGETATED OR PROTECTED FROM EROSION UNTIL **CULVERT** 4. ALL DIMENSIONS ARE IN METRES. EGETATION HAS BEEN ESTABLISHED. STRIPPED. 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: REFUELING EGETATIVE LAYER (SOIL 'SOD' OR 'SCRAW') FROM A) SAND BAGS REFUELLING OF MOBILE PLANT WILL BE KCAVATIONS TO BE STORED LOCALLY AND USED TO COMPLETED IN DESIGNATED REFUELING Source Controls: B) OYSTER BAGS FILLED WITH GRAVEL @ Ordnance Survey Ireland/Government of Ireland INE SLOPES AND BASE OF SWALES / DITCHES OR AREAS ONLY, PREFERABLY ON AN c) FILTER FABRICS ONGITUDINAL MOUNDS OF VEGETATION SWALES AT IMPERMEABLE SURFACE AND AWAY FROM D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE IELD DRAIN DISCHARGE POINTS. FIFED DRAINS / DITCHES AND AREAS STRIPPED OF VEGETATION SHOULD BE KEP 3) HSING SMALL WORKING AREAS SPILL KITS AND DRIP TRAYS WILL BE SURROUNDING STOCKPILES WITH SILT FENCING CLEAN STONE FLOW CONTROL CHECK DAMS TO BE AVAILABLE ON SITE FOR USE AS WEATHERING OFF / SEALING SOIL STOCKPILES ADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL RADED STONE. AGGREGATE SIZE FOR STONE CHECK ate Description Chkd Signe INTERCEPTOR DRAINS, VEE-DRAINS, OVERSIZED IAMS TO BE TYPICALLY 20- 40MM CLEAN STONE, ON SWALES/COLLECTOR DRAINS CARE WILL BE TAKEN WHEN COMPLETING LOPING SECTIONS OF THE ACCESS TRACKS, 40MM KEY PLAN P) FROSION AND VELOCITY CONTROL MEASURES SUCH AS: CONCRETE WORKS ON SITE TO ENSURE NO HECK DAMS TO BE PROTECTED FROM WASHING AWAY HYDRO ENVIRONMENTAL A) SAND BAGS DISCHARGES OCCUR. HROUGH THE PLACEMENT OF 100M STONE ON THE CONCRETE WASH WATER, AND WASTE B) OYSTER BAGS FILLED WITH GRAVEL OWNHILL FACE OF THE CHECK DAM AND BY WRAPPING CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE. c) FILTER FABRICS N GEOTEXTILE. SERVICES D) STRAW BALES BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE tet: +353 (0) 58-44122 E) FLOW LIMITERS MOVED AND DISPOSED OF APPROPRIATELY. SILT Dungarvan Tet +353 (3) 58-44244 IF WATER POLLUTION IS EVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS IN-LINE CONTROLS: F) WEIRS OR BAFFLES G) AND/OR OTHER SIMILAR/EQUIVALENT OR emal: intolktrydroen/ironmentalie ART OF AN ONGOING DRAINAGE MAINTENANCE IDENTIFIED THE FOLLOWING PROPRIATE SYSTEMS ROGRAMME DURING THE CONSTRUCTION PHASE. WHERE STEPS WOULD BE ADHERED TO: HECK DAMS BECOME CLOGGED WITH SILT OR S) SILT FENCES, FILTER FABRICS Client IN STREAM SEDIMATS EGETATION, STONE CHECK DAM TO BE REMOVED AND INNOGY RENEWABLES STOP - WORK IN THE IMMEDIATE AREA REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SHOULD BE STOPPED AND THE SOURCE OF THE SPACING AND FREQUENCY OF CHECK DAMS WILL SYSTEMS POLITICAL IDENTIFIED) ATTENUATION LAGOONS DEPENDENT UPON LONGITUDINAL GRADIENT OF 5) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS LYRENACARRIGA WF. CONTAIN - THE SOURCE OF THE POLLUTION LOCATION OF FILTRATION CHECK DAMS (IF Co. WATERFORD/Co. CORK SHOULD BE BUNDED USING A SUITABLE METHOD. TEMPORARY SUMPS PEDLIBED) TO BE AGREED ON SITE WITH ENGINEER NATURAL WATERCOURSES SHOULD BE 2) ATTENUATION PONDS SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER TEMPORARILY DIVERTED AROUND THE SOURCE TEMPORARY STORAGE LAGOONS HERE THEY MAY BE EASILY INFILLED AT A LATER PROPOSED DRAINAGE LAYOUT WATER IREATMENT 4) Sediment traps, Stilling / Settlement ponds 5) Proprietary settlement systems such as ATE (POST COMPLETION OF THE TURRING BASE AND CONTROLS: ARROSTAND CONSTRUCTION), ONLY SUITABLE MATERIALS NOTIFY - THE RELEVANT AUTHORITIES SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR XCAVATED FROM THE POND TO BE USED TO FORM PART (SITE MANAGER / FISHERIES / NPWS / DING APPROPRIATE SYSTEMS THE EMBANKMENT AROUND THE POND. LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED) SILT DEWATERING BAGS OIL FUEL SHOULD BE STORED WITHIN BUNDED IMMEDIATELY TO ENSURE THAT MEASURES CAN rawing No: P1453-0-0121-A3-D109-00A ONTAINMENT STRUCTURES. RE IMPLEMENTED DOWNSTREAM TO PROTECT O. SILT BAGS WILL BE USED ON SITE AT FIELD DRAIN ISHERIES AND OTHER SENSITIVE AREAS. 2) Buffered outfalls Project No.: P1453-0

cale: 1:2,000 (A3) Drawn By: GD

Date: 04/01/2021 Checked By: MG

Metres

SCHARGE LOCATIONS, AS NECESSARY

OUTFALL CONTROLS: 3) VEGETATION FILTERS

SILT DEWATERING BAGS