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8. Final levels may vary depending on local ground conditions.

Drawing Legend

	Planning Application Boundary
	Landowners Boundary
X	Site Notice
	Wayleaves

Area excluded from Application Boundary



Laurclavagh Renewable Energy Development, Co. Galway

Site Location Map

PROJECT No.:		DRAWING No.:	SCALE:
210627		210627 - 02	1:10,000 @ A1
DRAWN	CHECKED	DATE:	REVISION .:
^{BY:} JOB	^{BY:} TH	08.03.2024	P01
DS SHEET No.:			

2878, 2879, 2880, 2881, 2947, 2948, 2949, 2950, 3017, 3018, 3019, 3020, 3085, 3086, 3087, 3088









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8. Final levels may vary depending on local ground conditions





Laurclavagh Renewable Energy Development, Co. Galway AWING TITLE Site Location Map

Sheet B ROJECT No. SCALE 210627 210627 - 02B 1:2,500 @ A3 RAWN CHECKED BY: TH Y: JOB 08.03.2024 P01 GS SHEET No. 2878, 2879, 2880, 2881, 2947, 2948, 2949, 2950, 3017, 3018, 3019, 3020, 3085, 3086, 3087, 3088





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8. Final levels may vary depending on local ground conditions.

Drawing Legend



Landowners Boundary

Site Notice



Wayleaves







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8. Final levels may vary depending on local ground conditions.

Drawing Legend



Planning Application Boundary

Landowners Boundary



Site Notice Wayleaves



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11 .	PROJECT No	o.:	DRAWING No.:	SCALE:
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	DRAWN	CHECKED	DATE:	REVISION .:
	^{BY:} JOB	^{BY:} TH	08.03.2024	P01
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8. Final levels may vary depending on local ground conditions.	
Drawing Legend	

	Planning Application Boundary
	Existing Road to be Upgraded
	Proposed Road
	Temporary Construction Access Road
	Proposed Road Widening Works
 	Electrical Cabling Route
	Soft Levelled Area
	Hardstand/Turbine Assembly Area
\bigcirc	Turbine Foundation
	Turbine Sweep Area
+ + + + + + +	Spoil Management Area
	Cut
	Fill
	Area excluded from Application Boundary
	Grid Connection Footprint Subject to separate S.182A Planning Application



Laurclavagh Renewable Energy Development, Co. Galway

DRAWING TITLE Site Layout Key Plan (1:5,000)

PROJECT No.:		DRAWING No.:	SCALE:
210627		210627 - 03	1:10,000 @ A1
DRAWN	CHECKED	DATE:	REVISION .:
^{BY:} JOB	^{BY:} TH	08.03.2024	P01

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. Final levels may vary depending on local ground conditions.
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	ogona
	Planning Application Boundary
	Existing Road to be Upgraded
	Proposed Road
	Electrical Cabling Route
	Soft Levelled Area
	Hardstand/Turbine Assembly Area
0	Turbine Foundation
	Turbine Sweep Area
+ + + + + +	Spoil Management Area
	Cut
	Fill
	High Pressure Gas Transmission Pipeline



Laurclavagh Renewable Energy Development, Co. Galway

DRAWING TITLE: Site Layout Plan

PROJECT TITLE:

		Sheet 1 of 2	
PROJECT No.:		DRAWING No.:	SCALE:
210627		210627 - 04	1:5,000 @ A1
DRAWN CHECKED		DATE:	REVISION .:
Y: JOB	^{BY:} TH	08.03.2024	P01
OS SHEET N	o.: 2878 287	9 2880 2881 2947 20	048 2949 2950

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8. Final levels may vary depending on local ground conditions. Drawing Legend

	Planning Application Boundary
-	Existing Road to be Upgraded
-	Proposed Road
-	Temporary Construction Access Road
	Proposed Road Widening Works
	Electrical Cabling Route
	Soft Levelled Area
	Hardstand/Turbine Assembly Area
0	Turbine Foundation
	Turbine Sweep Area
+ + + + + + + + + + + + + + + + + + +	Spoil Management Area
	Cut
	Fill

Area excluded from Application Boundary

Grid Connection Footprint Subject to separate S.182A Planning Application



Site Layout Plan

Sheet 2 of 2			
PROJECT No.:		DRAWING No.:	SCALE:
210627		210627 - 05	1:5,000 @ A1
DRAWN	CHECKED	DATE:	REVISION.:
^{BY:} JOB	^{BY:} TH	08.03.2024	P01
OS SHEET No.:			

2878, 2879, 2880, 2881, 2947, 2948, 2949, 2950, 3017, 3018, 3019, 3020, 3085, 3086, 3087, 3088





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8. Final levels may vary depending on local ground conditions.

Drawing Legend

Planning Application Boundary Existing Road to be Upgraded Proposed Road Temporary Construction Access Road Proposed Road Widening Works Electrical Cabling Route |_____ Soft Levelled Area Hardstand/Turbine Assembly Area \bigcirc Turbine Foundation Turbine Sweep Area Spoil Management Area Cut Fill

Area excluded from Application Boundary

Grid Connection Footprint Subject to separate S.182A Planning Application



Laurclavagh Renewable Energy Development, Co. Galway

DRAWING TITLE: Site Layout Key Plan (1:2.500)

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PROJECT No.:		DRAWING No.:	SCALE:	
210627		210627 - 06	1:10,000 @ A1	
DRAWN	CHECKED	DATE:	REVISION .:	
^{BY:} JOB	^{BY:} TH	08.03.2024	P01	
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8. Final levels may vary depending on local ground conditions.

Drawing Legend

Planning Application Boundary Existing Road to be Upgraded Proposed Road Electrical Cabling Route Soft Levelled Area Hardstand/Turbine Assembly Area (\circ) **Turbine Foundation** Turbine Sweep Area Spoil Management Area Cut Fill

PROJECT TITLE: Laurclavagh Renewable Energy Development, Co. Galway

DRAWING TITLE: Site Layout Plan Sheet 1 of 5

Sneet 1 of 5				
PROJECT No.:		DRAWING No.:	SCALE:	
210627		210627 - 07	1:2,500 @ A1	
DRAWN	CHECKED	DATE:	REVISION .:	
^{BY:} JOB	^{BY:} TH	08.03.2024	P01	
OS SHEET No.:				

2878, 2879, 2880, 2881, 2947, 2948, 2949, 2950, 3017, 3018, 3019, 3020, 3085, 3086, 3087, 3088

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8. Final levels may vary depending on local ground conditions.	
Drawing Legend	

	Planning Application Boundary
	Existing Road to be Upgraded
	Proposed Road
	Electrical Cabling Route
	Soft Levelled Area
	Hardstand/Turbine Assembly Area
\bigcirc	Turbine Foundation
	Turbine Sweep Area
+ + + + + + +	Spoil Management Area
	Cut
	Fill
	High Pressure Gas Transmission Pipeline

PROJECT TITLE: Laurclavagh Renewable Energy Development, Co. Galway

DRAWING TITLE: Site Layout Plan Sheet 2 of 5

PROJECT No.:		DRAWING No.:	SCALE:	
210627		210627 - 08	1:2,500 @ A1	
DRAWN	CHECKED	DATE:	REVISION .:	
^{BY:} JOB	^{BY:} TH	08.03.2024	P01	
OS SHEET No :				

²⁸⁷⁸, 2879, 2880, 2881, 2947, 2948, 2949, 2950, 3017, 3018, 3019, 3020, 3085, 3086, 3087, 3088

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8. Final levels may vary depending on local ground conditions.
Drawing Legend

Planning Application Boundary _____ Existing Road to be Upgraded Proposed Road Electrical Cabling Route Soft Levelled Area Hardstand/Turbine Assembly Area **Turbine Foundation** (\circ) Turbine Sweep Area Spoil Management Area Cut Fill Grid Connection Footprint Subject to separate S.182A Planning Application

Laurclavagh Renewable Energy Development, Co. Galway

Site Layout Plan Sheet 4 of 5

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PROJECT No.:		DRAWING No.:	SCALE:	
210627		210627 - 10	1:2,500 @ A1	
DRAWN	CHECKED	DATE:	REVISION .:	
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2878, 2879, 2880, 2881, 2947, 2948, 2949, 2950, 3017, 3018, 3019, 3020, 3085, 3086, 3087, 3088

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7. Layout plans show Turbine rotor diameter as per turbine drawing.

8. Final levels may vary depending on local ground conditions.
Drawing Legend

•	•
	Planning Application Boundary
	Existing Road to be Upgraded
	Proposed Road
	Temporary Construction Access Road
	Proposed Road Widening Works
	Cut
	Fill
	Area excluded from Application Boundary
	Grid Connection Footprint Subject to separate S.182A Planning Application
	Underground Water Pipe

Site Layout Plan

		Sheet 5 of 5	
PROJECT No.: 210627		DRAWING No.: 210627 - 11	SCALE: 1:2,500 @ A1
08.03.2024	P01		
OS SHEET N	o.: 2878-287	9 2880 2881 2947 29	948 2949 2950

2878, 2879, 2880, 2881, 2947, 2948, 2949, 2950, 3017, 3018, 3019, 3020, 3085, 3086, 3087, 3088

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7. Layout plans show Turbine rotor diameter as per turbine drawing.

drawing. 8. Final levels may vary depending on local ground conditions.

Drawing Legend

	Proposed Road
(222)	Electrical Cabling Route
1988	Soft Levelled Area
	Hardstand/Turbine Assembly Area
\bigcirc	Turbine Foundation
\bigtriangledown	Turbine Sweep Area
	Cut
	Fill

Turbine 1 Layout Sheet

PROJECT No.:		DRAWING No.:	SCALE:	
210627		210627 - 12	1:500 @ A3	
DRAWN	CHECKED	DATE:	REVISION .:	
^{BY:} JOB	^{BY:} TH	08.03.2024	P01	
OS SHEET No.:				
2878, 2879, 2880, 2881, 2947, 2948, 2949, 2950,				
3017, 3018, 3019, 3020, 3085, 3086, 3087, 3088				

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Drawing Legend

	Proposed Road
(222)	Electrical Cabling Route
	Soft Levelled Area
	Hardstand/Turbine Assembly Area
\bigcirc	Turbine Foundation
\bigtriangledown	Turbine Sweep Area
	Cut
	Fill

ROJECT TITLE: Laurclavagh Renewable Energy Development, Co. Galway

Turbine 2 Layout Sheet

PROJECT No.:		DRAWING No.:	SCALE:
210627		210627 - 13	1:500 @ A3
DRAWN	CHECKED	DATE:	REVISION .:
^{BY:} JOB	^{BY:} TH	08.03.2024	P01
OS SHEET N 287	o.: '8. 2879. 28	80, 2881, 2947, 2948, 2	2949, 2950,

3017, 3018, 3019, 3020, 3085, 3086, 3087, 3088

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Drawing Legend

	Planning Application Boundary
	Proposed Road
(222)	Electrical Cabling Route
	Soft Levelled Area
	Hardstand/Turbine Assembly Area
\bigcirc	Turbine Foundation
$\overline{\mathbf{x}}$	Turbine Sweep Area
+ + + + +	Spoil Management Area
	Cut
	Fill

Turbine 6 Layout Sheet

PROJECT No.:		DRAWING No.:	SCALE:
210627		210627 - 17	1:500 @ A3
DRAWN	CHECKED	DATE:	REVISION .:
^{BY:} JOB	^{BY:} TH	08.03.2024	P01
OS SHEET N 287	o.: '8 2879 28	80 2881 2947 2948 2	2949 2950

2878, 2879, 2880, 2881, 2947, 2948, 2949, 2950, 3017, 3018, 3019, 3020, 3085, 3086, 3087, 3088

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B. Final levels may vary depending on local ground conditions.

Drawing Legend

	Proposed Road
(223)	Electrical Cabling Route
2222	Soft Levelled Area
	Hardstand/Turbine Assembly Area
\bigcirc	Turbine Foundation
\bigtriangledown	Turbine Sweep Area
+ + + +	Spoil Management Area
	Cut
	Fill

Turbine 8 Layout Sheet

PROJECT No.:		DRAWING No.:	SCALE:
210627		210627 - 19	1:500 @ A3
DRAWN ^{BY:} JOB	CHECKED BY: TH	DATE: 08.03.2024	REVISION.: P01
OS SHEET N 287	o.: '8, 2879, 28	80, 2881, 2947, 2948, 2	2949, 2950,

3017, 3018, 3019, 3020, 3085, 3086, 3087, 3088

Drawing Notes

ound to and hub maximum gro er a Proposed wind turbines to have blade tip height of 185m, blade height of 103.5m

Development, Co. Galway

PROJECT No	.:	DRAWING No.:	SCALE:
210627		210627 - 21	As Shown @ A3
DRAWN	CHECKED	DATE:	REVISION .:
^{BY:} JOB	^{BY:} TH	08.03.2024	P01

Transmission Pipeline - Cross Section 1:20

Gas Transmission Pipeline - Longitudinal Section 1:20

Project Design Drawing Notes
1. Widening can occur to either side of existing roads dependent on site

Project Design Drawing Notes
 1. Widening can occur to elither side of existing roads dependent on site
 conditions.
 2. Depths of road fill to vary dependent on site conditions.
 The cabling may be placed on either side of the roads, on both sides of
 therad on within the road. The exact configuration of the underground cabling
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 the requirements of the electrical designers at detailed design
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 copyright ownel McCarthy Keville O'Sullvan.
 To not scale of this drawing.
 S. All contractors, whether main or sub-contractors, must visit the site and are
 responsible for taking and checking any and all dimensions and levels that
 relate to the works.
 The use of or reliance upon this drawing shall be deemed to be acceptance
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 agreement to be sought from and issued by the copyright holder to the use or
 reliance upon these dawings
 10. Design will be subject to GMI requirements

535

Laurclavagh Renewable Energy Development, Co. Galway			
High Pressure Gas Transmission			
Pipeline - 33kV Crossing Detail			
PROJECT N	0.:	DRAWING No.:	SCALE:
21062	7	210627 - 23	1:20 @ A3
DRAWN	CHECKED	DATE:	REVISION .:
^{BY:} JOB	^{BY:} TH	13.03.2024	P01
	\mathbf{N}		
Email:	info@www.r	nkoireland.ie /Websit	e: www.mkoireland.ie

Signage Type B -Entry Point Signage

Note For illustrative purposes only exact details to be confirmed

Signage Type C - Way Point Direction Signage

PROJECT TITLE: Laurclavagh Renewable Energy Development, Co. Galway			
DRAWING TI	TLE: C	ianago Doi	hail
	5	ignage De	lan
PROJECT No).:	DRAWING No.:	SCALE:
210627	·	210627 - 26	1:20 @ A3
DRAWN	CHECKED	DATE:	REVISION .:
^{BY:} JOB	^{BY:} TH	08.03.2024	P01
	Y	IKÔ	>
Email: i	nfo@www.r	nkoireland.ie /Website	e: www.mkoireland.ie

Note: Security gates to be installed as single or double gated systems as per contractor design requirements

PROJECT No.:	DRAWING No.:	SCALE:
210627	210627 - 27	1: 20 @ A3
DRAWN CHECKED BY: JOB BY: TH	DATE: 08.03.2024	REVISION.: P01

FRONT ELEVATION

REAR ELEVATION

PLAN VIEW

SIDE ELEVATION

		Detail
PROJECT No.:	DRAWING No.:	SCALE:
	210627 - 28	1:50 @ A3
BY: JOB BY: 1	H 08.03.2024	P01

Existing Excavated Road Widening Cross Section

Project Design Drawing Notes
1. Widening can occur to either side of existing roads dependent on site

Project Design Drawing Notes
 Widening can occur to either side of existing roads dependent on site conditions.
 Depths of road fill to vary dependent on site conditions.
 The cabling may be placed on either side of the roads, on both sides of theroad or within the road. The search configuration of the underground cabling will be set by the requirements of the electrical designers at detailed design stage.
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 Drawings not be used for construction/contract conditions.
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 Al contractors, whether main or sub-contractors, must visit the site and are registed to the visit.
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—Spoil Management Area can be located on either side of the road surface

Laurclavagh Renewable Energy Development, Co. Galway				
DRAWING 1	UI Acc	ograde of Exis	sting ection	
		DRAWING No.:	SCALE:	
PROJECT N	10.:			
PROJECT N 21062	10.: ?7	210627 - 29	1:50 @ A3	
PROJECT N 21062 DRAWN	RO.: 7 CHECKED	210627 - 29 DATE:	1:50 @ A3 REVISION.:	

Excavated Road Cross Section

Project Design Drawing Notes 1. Widening can occur to either side of existing roads dependent on site

Topect Despit Drawing Increase
 Topect Despit Drawing
 Topect

PROJECT TITLE: Laurclavagh Renewable Energy Development, Co. Galway RAWING TITL New excavate and replace access road

		section	
PROJECT No	.:	DRAWING No.:	SCALE:
210627		210627 - 30	1:50 @ A3
DRAWN	CHECKED	DATE:	REVISION .:
^{BY:} JOB	^{BY:} TH	08.03.2024	P01

Upgrade of Existing Tar & Chip Roads - Construction Detail

Scale 1:30

Project Design Drawing Notes

roads den

onditions. Depths of road fill to vary dependent on site conditions. I. The cabling may be placed on either side of the roads, on both sides of heroad or within the road. The exact configuration of the underground cabl withe set by the requirements of the electrical designers at detailed design

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b. Copyright, all rights reserved. No part here with may be copied of reproduced partially or where McCartty Keville OfSullivan. 7. Do not scale of this drawing. Figured metric dimensions only should be taken of this drawing. Figured metric dimensions only should be taken of this drawing. All contractors, must visit the site and are responsible for taking and checking any and all dimensions and levels that relate to the works.
9. The use of or reliance upon this drawing shall be deemed to be acceptance of these conditions of use unless therwise shares or behaviors.
10. Road to be reliance upon this drawing shall be deemed to be acceptance of these conditions of use unless otherwise agreed in writing, such written agreement to be sought from and issued by the copyright holder to the use or reliance upon these drawings

Existing stone wall to be

Fencing to be installed along widened edge for the duration of construction

305	 00.03.2024	P01

Fmail: info@www.mk

ROJECT TITLE: Laurclavagh Renewable Energy Development, Co. Galway AWING TITLE Proposed Temporary Access Road DRAWING No.: SCALE: 210627 - 34 1:500 @ A3 PROJECT No.: 210627

210027		210027 - 34	1.300 @ A3
DRAWN	CHECKED	DATE:	REVISION .:
^{BY:} JOB	^{BY:} TH	08.03.2024	P01

Email: info@www.mkoireland.ie /Website: www

Excavated Road over Existing Water Pipe - Longitudinal Section

Excavated Road Over Existing Water Pipe - Cross Section 1:20

1:20

-Existing underground water pipe

110kV underground electrical cabling trench - not subject of this planning application

POLLUTION PREVENTION NOTES:

- SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST GROUNDWATER POLLUTION, SILTATION AND EROSION. . SUITABLE DRAINAGE CONTROL MEASURES WILL BE IN PLACE AT ALL TIMES MANAGE
- SILT AND DRAINAGE RUNOFF. 3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE
- ROADS/TRACKS, AND DISTURBANCE OF DRAINAGE PATHWAYS. <u>DISCHARGES</u> 4. ALL DRAINAGE DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO INFILTRATION
- DRAIN OR INFILTRATION AREA. ALL DISCHARGES WILL BE TO GROUND. THERE ARE NO NATURAL WATERCOURSES AT THIS SITE.
 5. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE INFILTRATION DRAINS AND THE INELL TRATIONS ADEAS PRIOR TO RECLARGE TO THE INELL TRATIONS.
- TREATED IN THOSE DRAINS AND THE INFILTRATIONS AREAS PRIOR TO RECHARGE TO GROUND.
 6. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES 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 PLATES, AND OTHER SIMILAR DISCHARGE
- CONTROLS. EXCAVATIONS 7. WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO REDUCE
- THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS. EXPOSED GROUND & STOCKPILES
- 8. The amount of exposed ground and temporary stockpiles open at any one Time will be minimised, as far as practicable.
- <u>SITE TRACKS</u>
 9. Use of track side swales (infiltration drains) with check dams, will reduce silt in drainage water as required.
 10. Check dams to be inspected and cleaned regularly.
- REFUELING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM INFILTRATION DRAINS / DITCHES.
- SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED. <u>CONCRETE</u>
 CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES TO GROUND OCCUR.
- 14. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE.
- IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

<u>STOP</u> - 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. <u>NOTIFY</u> - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT SENSITIVE RECEPTORS.

DRAINAGE NOTES:

 ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).
 SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE

LEVEL OF SILT IN DRAINAGE WATER DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING ADDITIONAL CHECK DAMS, SILT FENCES, STRAW BALES / OR SIMILAR AT THE PROBLEM AREAS. 3. 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 FENCES 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. 4. SUITABLE DRAINAGE MANAGEMENT/PREVENTION MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO THE DRAINAGE SYSTEM.

5. INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM CLEAN SURFACE WATER FLOWS. REGULAR CROSS DRAINS / FIELD DRAINS WILL BE REQUIRED TO TRANSFER RUNOFF IN INTERCEPTOR DRAINS TO SUITABLE DOWNSTREAM RECHARGE AREAS.

6. DRAINAGE SWALES / DOWNSTREAM COLLECTOR DRAINS TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS AS REQUIRED. REGULAR CROSS DRAINS/FIELD DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO MANITAIN DRAINAGE PATHWAYS, AND TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. 7. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN | :

1.5 TO 1 : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.
8. TRACK SIDE SWALES / INFILTRATION DRAINS TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOUPLING. IN STEEP AREAS CHECK DAMS WILL BE INSTALLED TO A READ OF THE ADDRESS OF THE A

GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS WILL BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT.
9. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL STORAGE AREAS TO MITIGATE SILT RUNOFF. SILT FENCES WILL BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.

10. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER ('SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT INFILTRATION AREAS.

 II. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM.
 I2. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.

13. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.

SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON
 ONGITUDINAL GRADIENT OF SWALE/INFILTRATION DRAIN.
 OIL FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT STRUCTURES.

6. SILT BAGS WILL BE USED ON SITE AS NECESSARY.

MITIGATION / DRAINAGE COINTROLS AVAILABLE FOR USE ACROSS THE SITE

Management Type	DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS			
Avoidance Controls	 USING SMALL WORKING AREAS WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER 			
Source Controls:	 I) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, DIVERSION DRAINS, LAND DRAINS AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) CHECK DAMS AND SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING TEMPORARY STOCKPILES WITH SILT FENCING 5) WEATHERING OFF / SEALING PEAT STOCKPILES 			
IN-LINE CONTROLS:	 INTERCEPTOR DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) CHECK DAMS AND SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. SILT FENCES, FILTER FABRICS L TEMPORARY SUMPS, PUMPING SYSTEMS SWALES/INFILTRATION DRAINS, AND INFILTRATION AREAS 			
WATER TREATMENT Controls:	 TEMPORARY SUMPS TEMPORARY STORAGE LAGOONS INFILTRATION DRAINS / AREAS PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. SILT DEWATERING BAGS 			
OUTFALL CONTROLS:	 INFILTRATION DRAINS INFILTRATION AREAS 			

3) SILT DEWATERING BAGS

CONTROLS	CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER	
SOURCE CONTROLS:	 I) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, DIVERSION DRAINS, LAND DRAINS AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) CHECK DAMS AND SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING TEMPORARY STOCKPILES WITH SILT FENCING 5) WEATHERING OFF / SEALING PEAT STOCKPILES 	
IN-LINE CONTROLS:	 INTERCEPTOR DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) CHECK DAMS AND SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. 3) SILT FENCES, FILTER FABRICS 4) TEMPORARY SUMPS, PUMPING SYSTEMS 5) SWALES/INFILTRATION DRAINS, AND INFILTRATION AREAS 	
WATER TREATMENT CONTROLS:	 TEMPORARY SUMPS TEMPORARY STORAGE LAGOONS INFILTRATION DRAINS / AREAS PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. SILT DEWATERING BAGS 	
OUTFALL CONTROLS:	 INFILTRATION DRAINS INFILTRATION AREAS 	

3) SILT DEWATERING BAGS

POLLUTION PREVENTION NOTES: Site MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST GROUNDWATER POLLUTION, SILTATION AND EROSION. Suitable DRAINAGE CONTROL MEASURES WILL BE IN PLACE AT ALL TIMES MANAGE SILT AND DRAINAGE RUNOFF. Silty WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTUBBANCE OF DRAINAGE PATHWAYS. <u>DISCHARGES</u> All DRAINAGE DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO INFILTRATION DRAIN OR INFILTRATION AREA. ALL DISCHARGES WILL BE TO GROUND. THERE ARE NO NATURAL WATERCOURSES AT THIS SITE. PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE INFILTRATION DRAINS AND TREATED IN THOSE DRAINS AND THE INFILTRATIONS AREAS PRIOR TO RECHARGE TO GROUND. PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES 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 PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS. <u>EXCAVATIONS</u> 7. WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE

- CASE AROUND TURBINE BASE EXCAVATIONS. EXPOSED GROUND & STOCKPILES 8. THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE.
- SITE TRACKS 9. USE OF TRACK SIDE SWALES (INFILTRATION DRAINS) WITH CHECK DAMS, WILL REDUCE SILT IN DRAINAGE WATER AS REQUIRED.
- 10. CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY. <u>REFUELING</u>
 II. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM INFILTRATION DRAWS (PITOUS)
- DRAINS / DITCHES. 12. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED. <u>CONCRETE</u> 13. CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO
- DISCHARGES TO GROUND OCCUR. 4. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE.

IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

 $\frac{\text{STOP}}{\text{POLLUTION IDENTIFIED.}} - \text{WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLLUTION IDENTIFIED.} \\ \frac{\text{CONTAIN}}{\text{NOTIFY}} - \text{THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD.} \\ \frac{\text{NOTIFY}}{\text{NOTIFY}} - \text{THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT SENSITIVE RECEPTORS.}$

DRAINAGE NOTES:

 ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).
 SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN DRAINAGE WATER DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING ADDITIONAL CHECK DAMS, SILT FENCES, STRAW BALES / OR SIMILAR AT THE PROBLEM AREAS.

3. 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 FENCES 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 L DADINGS BEING CEMERATED DURING THE CONTRUCTION DURING

INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE. 4. SUITABLE DRAINAGE MANAGEMENT/PREVENTION MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO THE DRAINAGE SYSTEM. 5. INTERCEPTOR SWAI ES / DITCHES TO BE LISED TO COLLECT LIPSTPEAM CLEAN

5. INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM CLEAN SURFACE WATER FLOWS. REGULAR CROSS DRAINS / FIELD DRAINS WILL BE REQUIRED TO TRANSFER RUNOFF IN INTERCEPTOR DRAINS TO SUITABLE DOWNSTREAM RECHARGE AREAS.

6. DRAINAGE SWALES / DOWNSTREAM COLLECTOR DRAINS TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS AS REQUIRED. REGULAR CROSS DRAINS/FIELD DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO MANITAIN DRAINAGE PATHWAYS, AND TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE.

 BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN I :
 TO I : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.
 TRACK SIDE SWALES / INFILTRATION DRAINS TO BE SHALLOW WITH MODERATE

GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS WILL BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT. 9. STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL STORAGE AREAS TO MITIGATE SILT RUNOFF. SILT FENCES WILL BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.

10. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER ('SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT INFILTRATION AREAS.

 AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM.
 CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.

13. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.

14. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE/INFILTRATION DRAIN.
15. OIL FUEL SHOULD BE STORED WITHIN BUNDED CONTAINMENT STRUCTURES.
16. SILT BAGS WILL BE USED ON SITE AS NECESSARY.

MITIGATION / DRAINAGE COINTROLS AVAILAR

MITIGATION	/ DRAINAGE COINTROLS AVAILABLE			
FOR USE ACROSS THE SITE				
MANACEMENT TYPE	DESCRIPTION OF SUDS DRAINAGE CONTROL			
TANAGEMENT TIFE	METHODS			

Avoidance Controls	 USING SMALL WORKING AREAS WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER
Source Controls:	 I) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, DIVERSION DRAINS, LAND DRAINS AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) CHECK DAMS AND SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING TEMPORARY STOCKPILES WITH SILT FENCING 5) WEATHERING OFF / SEALING PEAT STOCKPILES
IN-LINE CONTROLS:	 INTERCEPTOR DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) CHECK DAMS AND SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. SILT FENCES, FILTER FABRICS H TEMPORARY SUMPS, PUMPING SYSTEMS SWALES/INFILTRATION DRAINS, AND INFILTRATION AREAS
Water Treatment Controls:	 TEMPORARY SUMPS TEMPORARY STORAGE LAGOONS INFILTRATION DRAINS / AREAS PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. SILT DEWATERING BAGS
OUTFALL CONTROLS:	 INFILTRATION DRAINS INFILTRATION AREAS SILT DEWATERING BAGS

POLLUTION PREVENTION NOTES: Site management proposals are intended to ensure protection against groundwater pollution, siltation and erosion. Suitable drainage control measures will be in place at all times manage silt and drainage runoff. Silty water can arise from dewatering excavations, erosion of exposed/disturbed ground, temporary stockpiles, plant and wheel wash, site roads/tracks, and disturbance of drainage pathways. Discharges All drainage discharges to be made over open ground or into infiltration drain or infiltration area. All discharges will be to ground. There are no natural watercourses at this site.

- PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE INFILTRATION DRAINS AND TREATED IN THOSE DRAINS AND THE INFILTRATIONS AREAS PRIOR TO RECHARGE TO GROUND.
 PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN
- ON FOMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-POMPING IN DRAINS/DITCHES 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 PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS. <u>EXCAVATIONS</u>
- 7. Where deep excavations are proposed cut-off drains will be use to reduce the amount of surface water entering the excavation. This will be the case around turbine base excavations. <u>Exposed Ground & Stockpiles</u>
- 8. THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE. SITE TRACKS
- Use of track side swales (infiltration drains) with check dams, will reduce silt in drainage water as required.
 Check dams to be inspected and cleaned regularly.
- REFUELING II. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM INFILTRATION DRAINS / DITCHES.
- SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED. <u>CONCRETE</u>
 CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES TO GROUND OCCUR.
- 14. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE.

If water pollution is identified the following steps would be adhered to: 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. <u>NOTIFY</u> - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT SENSITIVE RECEPTORS.

DRAINAGE NOTES

 ROADWAY SURFACING DESIGN AND CONSTRUCTION TO ENGINEER'S SPECIFICATION (I.E. BY OTHERS).
 SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, TO BE STORED ON SITE. THE LEVEL OF SILT IN DRAINAGE WATER DURING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY

PLACING ADDITIONAL CHECK DAMS, SILT FENCES, STRAW BALES / OR SIMILAR AT THE PROBLEM AREAS. 3. 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 FENCES

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. 4. SUITABLE DRAINAGE MANAGEMENT/PREVENTION MEASURES WILL BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO THE

DRAINAGE SYSTEM. 5. INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM CLEAN SURFACE WATER FLOWS. REGULAR CROSS DRAINS / FIELD DRAINS WILL BE REQUIRED TO TRANSFER RUNOFF IN INTERCEPTOR DRAINS TO SUITABLE DOWNSTREAM RECHARGE AREAS.

6. DRAINAGE SWALES / DOWNSTREAM COLLECTOR DRAINS TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS AS REQUIRED. REGULAR CROSS DRAINS/FIELD DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO MANITAIN DRAINAGE PATHWAYS, AND TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE.

7. BATTERS OF ALL PROPOSED SWALES / DITCHES TO HAVE A SLOPE OF BETWEEN I : 1.5 TO I : 2 DEPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.

 TRACK SIDE SWALES / INFILTRATION DRAINS TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT SCOURING. IN STEEP AREAS CHECK DAMS WILL BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF SILT CONTAINMENT.
 STRAW BALES / OR SIMILAR AND SILT FENCES TO BE USED ALSO AROUND SPOIL STORAGE AREAS TO MITIGATE SILT RUNOFF. SILT FENCES WILL BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED.

10. SLOPES OF THE SWALES / DITCHES TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE LAYER ('SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY AND USED TO LINE SLOPES AND BASE OF SWALES / DITCHES OR LONGITUDINAL MOUNDS OF VEGETATION SWALES AT INFILTRATION AREAS.

II. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM.
I2. CLEAN STONE FLOW CONTROL CHECK DAMS TO BE MADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON SLOPING SECTIONS OF THE ACCESS TRACKS, 40MM CHECK DAMS TO BE PROTECTED FROM WASHING AWAY THROUGH THE PLACEMENT OF 100M STONE ON THE DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE.

WRAPPING IN GEUTEXTILE. 13. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS PART OF AN ONGOING DRAINAGE MAINTENANCE PROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR VEGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT.

14. Spacing and frequency of check dams will be dependent upon longitudinal gradient of swale/infiltration drain.
15. OIL fuel should be stored within bunded containment structures.

16. SILT BAGS WILL BE USED ON SITE AS NECESSARY.

MITIGATION / DRAINAGE COINTROLS AVAILABLE

F	OR USE ACROSS THE SITE
Management Type	DESCRIPTION OF SUDS DRAINAGE CONTROL METHODS
Avoidance Controls	 USING SMALL WORKING AREAS WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED WET WEATHER
SOURCE CONTROLS:	 I) USE OF UPSTREAM INTERCEPTOR DRAINS AND DOWNSTREAM COLLECTOR DRAINS / OVERSIZED SWALES, DIVERSION DRAINS, LAND DRAINS AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) CHECK DAMS AND SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS 3) USING SMALL WORKING AREAS 4) SURROUNDING TEMPORARY STOCKPILES WITH SILT FENCING 5) WEATHERING OFF / SEALING PEAT STOCKPILES
IN-LINE CONTROLS:	 I) INTERCEPTOR DRAINS, OVERSIZED SWALES/COLLECTOR DRAINS 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) CHECK DAMS AND SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL C) FILTER FABRICS D) STRAW BALES G) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. 3) SILT FENCES, FILTER FABRICS 4) TEMPORARY SUMPS, PUMPING SYSTEMS 5) SWALES/INFILTRATION DRAINS, AND INFILTRATION AREAS
WATER TREATMENT Controls:	 TEMPORARY SUMPS TEMPORARY STORAGE LAGOONS INFILTRATION DRAINS / AREAS PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. SILT DEWATERING BAGS
OUTFALL CONTROLS:	 I) INFILTRATION DRAINS 2) INFILTRATION AREAS

3) SILT DEWATERING BAGS

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