

# Attachment Seven

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## Construction Management Plan

THE FOLLOWING HAVE BEEN IDENTIFIED AS SIGNIFICANT ENVIRONMENTAL ASPECTS FOR THE SITE:

- |                         |                                     |
|-------------------------|-------------------------------------|
| 1. NOISE                | 4. TRAFFIC                          |
| 2. DUST                 | 5. SERVICES AND OVERHEAD POWERLINES |
| 3. EROSION AND SEDIMENT |                                     |
- THESE ASPECTS SHALL BE MANAGED WITH THE ENVIRONMENTAL PROTECTION MEASURES OUTLINED ON THIS PLAN.

MANAGEMENT	
1. RESPONSIBILITIES:	4. STAGING OF WORKS:
<ul style="list-style-type: none"> <li>CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION OF THIS PLAN.</li> <li>CONTRACTOR TO SEEK APPROVAL FROM CONSULTANT FOR ANY AMENDMENTS TO THIS PLAN.</li> </ul>	<ul style="list-style-type: none"> <li>WORKS ARE TO BE STAGED TO LIMIT THE TIME THAT AREAS ARE LEFT EXPOSED.</li> </ul>
2. COMMUNICATIONS OF EMP REQUIREMENTS:	5. INFORMING RESIDENTS:
CONTRACTOR TO KEEP A COPY OF THE EMP PLAN ON SITE AT ALL TIMES AND IS TO COMMUNICATE TO ALL INDIVIDUALS ON SITE VIA: <ol style="list-style-type: none"> <li>INDUCTIONS</li> <li>TOOLBOX MEETINGS</li> <li>TRAINING SESSIONS</li> </ol>	<ul style="list-style-type: none"> <li>CONTRACTOR TO NOTIFY ADJOINING RESIDENTS BY MAIL DROP PRIOR TO WORKS COMMENCING.</li> </ul>
3. INSPECTIONS AND MAINTENANCE:	6. ASSOCIATED DOCUMENTS:
<ul style="list-style-type: none"> <li>CONTRACTOR TO PREPARE INSPECTION PLAN AND SUBMIT TO CONSULTANT PRIOR TO COMMENCING WORKS</li> </ul>	

NOISE		RISK: SIGNIFICANT / <del>MED</del> / <del>LOW</del>
REQUIREMENTS: EPA VICTORIA AND COUNCIL REQUIREMENTS MUST BE ADHERED TO IN RELATION TO THE LEVEL OF NOISE AND WORKING HOURS, TO ENSURE THAT RESIDENTS AND OTHER APPLICABLE NEIGHBOURS TO THE SITE ARE NOT DISTURBED UNREASONABLY. THE GENERATION OF NOISE MUST BE MINIMISED.		
7. WORKING HOURS:	8. NOISE MINIMISATION METHODS:	9. OTHER:
7am TO 6pm MON - FRI 7am TO 1pm SAT	CONFORM TO WORKING HOURS IN 7. UNDERTAKE WORKS AWAY FROM EXISTING BUILDINGS BEFORE 8AM WHERE PRACTICAL.	

DUST		RISK: SIGNIFICANT / <del>MED</del> / <del>LOW</del>
REQUIREMENTS: DUST GENERATION MUST BE MINIMISED TO ENSURE THERE IS NO HEALTH RISK OR LOSS OF AMENITY.		
10. MINIMISING DUST GENERATION:	12. CONTINGENCIES:	
<ul style="list-style-type: none"> <li>RETAINING VEGETATION WHERE POSSIBLE.</li> <li>PROVIDE STOCKPILE PROTECTION.</li> <li>LOCATE STOCKPILES IN AREAS PROTECTED FROM WIND.</li> <li>RESTRICT VEHICLE MOVEMENTS.</li> <li>PREVENT DUST MATERIAL FROM BEING TRANSPORTED.</li> <li>LIMIT WORK ARE TO MINIMUM REQUIRED.</li> <li>PROVIDE STABILISATION MATTING TO STEEP BANKS.</li> </ul>	<ul style="list-style-type: none"> <li>IF STOCKPILE IS TO REMAIN PAST PRACTICAL COMPLETION THEN IT IS TO BE TREATED WITH "RAINSTORM". REAPPLICATION MAY BE REQUIRED.</li> </ul>	
11. DUST SUPPRESSION:	13. OTHER:	
<ul style="list-style-type: none"> <li>SPRAY WATER VIA WATER CART / SPRINKLER / HAND HELD HOSE TO SUPPRESS DUST ON SITE.</li> <li>REGULAR WATERING IS REQUIRED FOR GENERAL WORKS.</li> <li>WHEN HAULING IS OCCURRING ON SITE THEN WATERING IS TO BE FREQUENT TO HELP SUPPRESS THE DUST.</li> </ul>		

EROSION AND SEDIMENT		RISK: SIGNIFICANT / <del>MED</del> / <del>LOW</del>
REQUIREMENTS: EROSION AND SEDIMENT MUST BE MANAGED IN ACCORDANCE WITH BEST PRACTICE ENVIRONMENTAL MANAGEMENT PRACTICES, TO PREVENT SEDIMENT-LADEN WATER FROM ENTERING ANY DRAINAGE SYSTEM OR NATURAL WATERWAY.		
14. DRAINAGE MANAGEMENT:	17. SEDIMENT TRAPS:	
<ul style="list-style-type: none"> <li>PROVIDE INLET FILTERS AROUND ALL DRAINAGE PITS.</li> <li>PROVIDE SILT FENCES DOWNSLOPE OF STOCKPILES.</li> <li>PROVIDE SILT FENCES OR STRAW BALES AT ALL OUTLET POINTS.</li> </ul>		
15. SOIL STABILISATION DURING CONSTRUCTION:	18. DEWATERING:	
<ul style="list-style-type: none"> <li>REDUCE TIME TOPSOIL IS CLEAR OF VEGETATION.</li> <li>REDUCE TRAFFIC ON AREA CLEAR OF VEGETATION.</li> </ul>		
16. STOCKPILE PROTECTION:	19. VEHICLE AND ROAD MANAGEMENT: SITE ACCESS:	
<ul style="list-style-type: none"> <li>DIVERT RUNOFF AROUND STOCKPILE AREA.</li> <li>MAX HEIGHT TO BE 2.0m.</li> <li>POSITION AWAY FROM DRAINAGE AREAS.</li> <li>SEDIMENT FENCES TO BE PROVIDED DOWNSLOPE OF STOCKPILE.</li> </ul>	CLEANING VEHICLES: <ul style="list-style-type: none"> <li>SOIL TO BE SWEEPED AWAY IF DEPOSITED ONTO ADJACENT STREETS.</li> </ul>	
	20. OTHER:	

WASTE		RISK: <del>SIGNIFICANT</del> / <del>MED</del> / LOW
REQUIREMENTS: LITTER AND WASTE MUST BE CONTAINED ON SITE, BEFORE DISPOSAL IN A RESPONSIBLE MANNER. WASTE GENERATION MUST BE MINIMISED.		
21. MOVEMENT OF SOIL: OFFSITE / ONSITE / N/A CONTAMINANT STATUS:	23. WASTE STORAGE AND DISPOSAL:	
	<ul style="list-style-type: none"> <li>ALL WASTE MATERIALS TO BE STOCKPILED AND REMOVED FROM THE SITE.</li> </ul>	
22. WASTE MINIMISATION METHODS:	24. OTHER:	
<ul style="list-style-type: none"> <li>ALL WASTE MATERIALS TO BE STOCKPILED AND REMOVED FROM THE SITE.</li> </ul>		

CHEMICALS		RISK: <del>SIGNIFICANT</del> / <del>MED</del> / LOW
REQUIREMENTS: STORAGE AND SPILL MANAGEMENT PRACTICES MUST BE IMPLEMENTED TO ENSURE THAT NO ENVIRONMENTAL DAMAGE CAN RESULT FROM THE ESCAPE OR SPILLAGE OF CHEMICALS OR FUELS.		
25. STORAGE:	27. REFUELING PROCEDURE:	
<ul style="list-style-type: none"> <li>CONTRACTOR TO PROVIDE CHEMICAL STORAGE AREA AS REQUIRED.</li> </ul>	<ul style="list-style-type: none"> <li>CONTRACTOR TO PROVIDE CENTRAL REFUELING LOCATION AS REQUIRED.</li> </ul>	
26. SPILL MANAGEMENT:	28. OTHER:	

ISSUE	ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED

J:\11811 (HENDY MAIN ROAD, MORIAC)\200-CE\DWG\11811-200 (EMP).DWG



LEGEND	
	STOCKPILE
	SILT FENCE
SF	
	CATCH DRAIN
CD	
	SAUSAGE FILTER
	STRAW BALES
SB	

**NOTE**  
ALL WORKS TO COMPLY WITH "DOING IT RIGHT ON SUBDIVISIONS" (GUIDELINE FOR ENVIRONMENTAL MANAGEMENT) TEMPORARY ENVIRONMENTAL PROTECTION MEASURES FOR SUBDIVISION CONSTRUCTION SITES.

**NOTE:**  
SILT FENCES TO REMAIN AND MAINTAINED IN PLACE UNTIL WHERE POSSIBLE 6 MONTHS FROM COMPLETION TO ALLOW FOR ESTABLISHMENT OF VEGETATION.

**NOTE:**  
ALL DISTURBED AREA ARE TO BE TOPSOILED AND HYDROMULCHED AS SOON AS PRACTICAL FOLLOWING COMPLETION OF WORK IN THAT AREA.

**NOTE:**  
STOCKPILE TO HAVE RAINSTORM OR APPROVED EQUIVALENT MATERIAL APPLIED TO FORM A CRUST TO PREVENT WIND BLOWN DUST GENERATION.

**NOTE:**  
SOIL DISTURBANCE BEYOND WORKS AREA TO BE MINIMISED. FLAGGING TO BE ERECTED TO PREVENT VEHICLE ACCESS TO NON REQUIRED AREAS.

PROVIDE CATCH DRAINS AS SOON AS PRACTICABLE ONSITE FOLLOWING DRAINAGE CONSTRUCTION TO DIVERT RUNOFF AWAY FROM SITE. CATCH DRAINS ARE TO BE TOPSOILED AND HYDROSEEDDED (HYDROMULCHING MAY BE REQUIRED DUE TO WEATHER CONDITIONS) AS SOON AS PRACTICABLE FOLLOWING FORMATION.

**CONTRACTOR CONTACT DETAILS:**  
NAME:  
COMPANY:  
CONTACT PH.:  
AFTER HRS.:

**SUPERINTENDENT CONTACT DETAILS:**  
NAME: TIM DAVIS  
COMPANY: TGM GROUP PTY. LTD.  
WORK HOURS: 8:30AM-5:00PM  
CONTACT PH.: 5202 4600  
AFTER HRS.: 0448691365

**NOTE:**  
THE ABOVE CONTACT DETAILS ARE TO BE DISPLAYED ON THE ENTRANCE TO THE DEVELOPMENT AT ALL TIMES.

SIGNIFICANT FLORA/FAUNA		RISK: <del>SIGNIFICANT</del> / <del>MED</del> / <del>LOW</del>	ARCHAEOLOGICAL/HERITAGE		RISK: <del>SIGNIFICANT</del> / <del>MED</del> / <del>LOW</del>	TRAFFIC		RISK: SIGNIFICANT / <del>MED</del> / <del>LOW</del>	OTHER - N/A	
REQUIREMENTS: ALL SIGNIFICANT FLORA AND FAUNA ON AND ADJACENT TO THE SITE MUST BE PROTECTED.			REQUIREMENTS: PLACES, SITES AND OBJECTS OF ARCHAEOLOGICAL OR HERITAGE SIGNIFICANCE MUST BE PROTECTED.			<ul style="list-style-type: none"> <li>CONTRACTOR TO PROVIDE TRAFFIC MANAGEMENT PLAN FOR HENDY MAIN ROAD</li> </ul>		<ul style="list-style-type: none"> <li>CONTRACTOR IS TO CONTACT 'DIAL BEFORE YOU DIG' PRIOR TO COMMENCING WORKS ON SITE.</li> <li>ALL SERVICES ARE TO BE ACCURATELY LOCATED PRIOR TO WORKING IN THE VICINITY.</li> <li>CONTRACTOR TO PROVIDE "ELECTRICAL SPOTTER" WHEN WORKING IN THE VICINITY OF OVERHEAD POWERLINES.</li> <li>CONTRACTOR 24 HOUR SITE HOTLINE: (03) XXXX XXXX. REFER ANSWERING SERVICE FOR ROSTERED PERSON CONTACT DETAILS.</li> </ul>		
<ul style="list-style-type: none"> <li>ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE RELEVANT FLORA AND FAUNA REPORTS.</li> </ul>			<ul style="list-style-type: none"> <li>NONE PRESENT.</li> </ul>			I HAVE READ THIS ENVIRONMENTAL MANAGEMENT PLAN AND AGREE TO UNDERTAKE WORKS AND ENSURE SUBCONTRACTORS UNDERTAKE WORKS IN ACCORDANCE WITH THIS PLAN.		DEVELOPER: _____ CONSULTANT: _____ CONTRACTOR: _____		

DESIGNED: C.LEWIS  
DRAWN: C.LEWIS  
SURVEY: TGM GEELONG  
CHECKED:  
POS NO: PS  
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CLIENT:  
**CHRIS MARSHALL**  
HENDY MAIN ROAD  
MORIAC

PROJECT:  
**HENDY MAIN ROAD**  
MRIAC  
**SURF COAST SHIRE**

CIVIL DRAWING  
DRAWING TITLE:  
**ENVIRONMENTAL MANAGEMENT PLAN LAYOUT PLAN**  
TGM REF. No: 11811-200  
SHEET: 0 OF 2 REV: 00

TGM REF. No: 11811-200 SHEET: 0 OF 2 REV: 00

# RISK ASSESSMENT CHECKLIST

DUST	
ISSUES:	<u>LIKELIHOOD</u>
<ul style="list-style-type: none"> <li>* DUST SOURCES: MOVEMENT OF VEHICLES AND MACHINERY</li> <li>* POTENTIAL DUST RECEPTORS: SURROUNDING RESIDENTS</li> <li>* PROXIMITY OF WORKS TO DUST RECEPTORS: WITHIN 200m</li> <li>* EXTENT OF EXPOSED EARTH AND DURATION OF TIME EXPOSED: DURATION OF PROJECT</li> <li>* WIND CONDITIONS: PREDOMINATELY FROM SOUTH WEST TO NORTH WEST</li> </ul>	LIKELY  MODERATE
	<u>CONSEQUENCE</u>
	MODERATE
	<u>OVERALL RISK</u>
	SIGNIFICANT

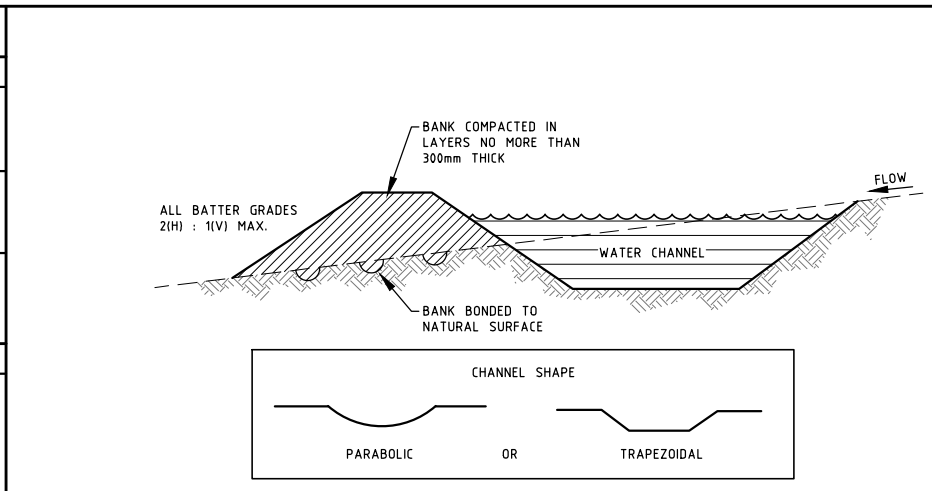
EROSION AND SEDIMENT	
ISSUES:	<u>LIKELIHOOD</u>
<ul style="list-style-type: none"> <li>* EROSION AND SEDIMENT SOURCES: EXPOSED SURFACES, EXCAVATIONS, STOCKPILES AND EXISTING WATERCOURSE</li> <li>* POTENTIAL EROSION AND SEDIMENT RECEPTORS: EXISTING STREETS AND DRAINS</li> <li>* PROXIMITY OF WORKS TO EROSION AND SEDIMENT RECEPTORS: ADJACENT TO SITE</li> <li>* EXTENT OF EXPOSED EARTH AND DURATION OF TIME EXPOSED: DRAINAGE/SEWER LINES PAVEMENT AREAS, DURATION OF PROJECT</li> <li>* SOIL TYPE AND EROSION CLAY AND TOPSOIL</li> <li>* SLOPE: LAND SLOPES TO SOUTH EAST</li> <li>* SITE DRAINAGE REGIME: OVERLAND FLOW TO SOUTH EAST</li> <li>* RAINFALL</li> <li>* VEHICLE MOVEMENTS ON AND OFF SITE:</li> </ul>	LIKELY  MODERATE
	<u>CONSEQUENCE</u>
	MODERATE
	<u>OVERALL RISK</u>
	SIGNIFICANT

WASTE	
ISSUES:	<u>LIKELIHOOD</u>
<ul style="list-style-type: none"> <li>* NATURAL WASTE TO BE GENERATED: SOIL &amp; CLAY MATERIAL, PACKAGING AND CONCRETE WASTE.</li> <li>* PRESENCE OF WASTE ON SITE PRIOR TO WORKS COMMENCEMENT: NIL</li> <li>* QUANTITY OF WASTE ANTICIPATED: 500 CUM</li> <li>* POTENTIAL WASTE RECEPTOR: NIL</li> <li>* PROXIMITY TO POTENTIAL WASTE RECEPTORS: N/A</li> </ul>	UNLIKELY  MINOR
	<u>CONSEQUENCE</u>
	MINOR
	<u>OVERALL RISK</u>
	LOW

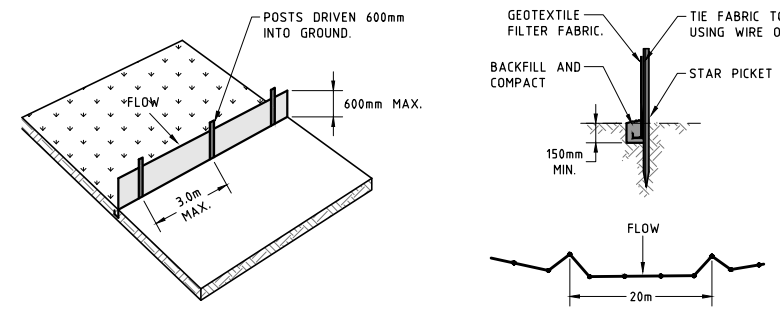
SIGNIFICANT FLORA / FAUNA	
ISSUES:	<u>LIKELIHOOD</u>
<ul style="list-style-type: none"> <li>* TYPES OF FLORA / FAUNA: GRASSES, TREES</li> <li>* VULNERABILITY OF FLORA / FAUNA:</li> <li>* PROXIMITY OF FLORA / FAUNA TO WORKS: ON SITE</li> <li>* WORK ACTIVITIES WHICH MAY THREATEN FLORA / FAUNA: VEHICLE MOVEMENTS</li> <li>* POTENTIAL IMPACTS ON FLORA / FAUNA:</li> </ul>	UNLIKELY  MINOR
	<u>CONSEQUENCE</u>
	MINOR
	<u>OVERALL RISK</u>
	LOW

ARCHAEOLOGICAL / HERITAGE	
ISSUES:	<u>LIKELIHOOD</u>
<ul style="list-style-type: none"> <li>* TRADITIONAL LAND HOLDERS CONSULTED: NO</li> <li>* SURVEY OR ASSESSMENT CONDUCTED: NO</li> <li>* PROBABILITY OF ENCOUNTERING ARCHAEOLOGICAL / HERITAGE ITEMS DURING WORKS: LOW</li> <li>* PROXIMITY OF ARCHAEOLOGICAL / HERITAGE ITEMS TO WORKS ON SITE: N/A</li> <li>* WORK ACTIVITIES WHICH MAY THREATEN ARCHAEOLOGICAL / HERITAGE ITEMS: EARTHWORKS</li> <li>* POTENTIAL IMPACTS ON ARCHAEOLOGICAL / HERITAGE ITEMS: MAY DESTROY ITEMS</li> </ul>	UNLIKELY  MINOR
	<u>CONSEQUENCE</u>
	MINOR
	<u>OVERALL RISK</u>
	LOW

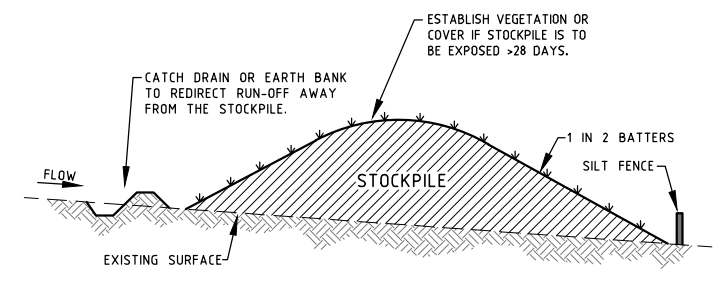
CHEMICALS	
ISSUES:	<u>LIKELIHOOD</u>
<ul style="list-style-type: none"> <li>* TYPES OF CHEMICALS AND FUELS USED AND/OR STORED ONSITE: PETROL</li> <li>* QUANTITIES OF CHEMICALS AND FUELS USED AND/OR STORED ONSITE: MINIMAL</li> <li>* POTENTIAL CHEMICAL RECEPTORS: DRAINAGE SYSTEMS / NEIGHBOURS</li> <li>* PROXIMITY TO POTENTIAL CHEMICAL RECEPTORS: WITHIN 50m</li> </ul>	UNLIKELY  MINOR
	<u>CONSEQUENCE</u>
	MINOR
	<u>OVERALL RISK</u>
	LOW



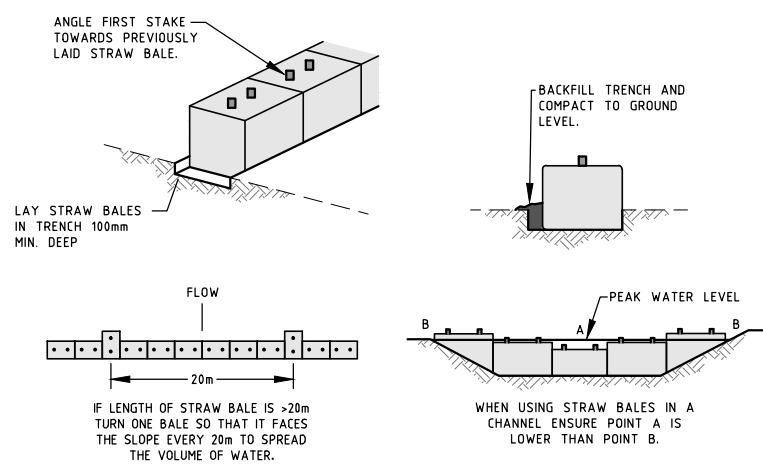
**CATCH DRAIN**



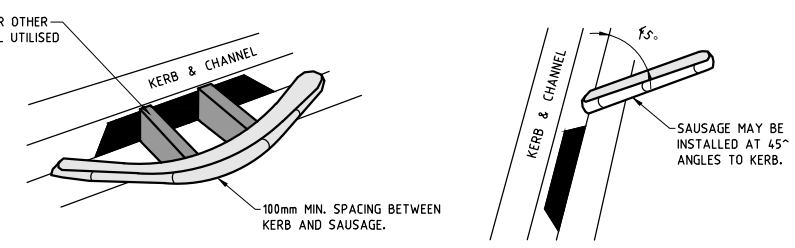
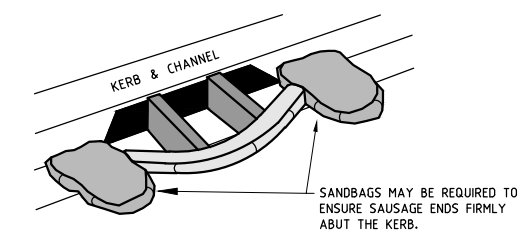
**SILT FENCE**



**STOCKPILE PROTECTION**



**STRAW BALES**



**GRAVEL SAUSAGE**

NOISE	
ISSUES:	<u>LIKELIHOOD</u>
<ul style="list-style-type: none"> <li>* NATURE OF NOISE GENERATING WORKS: EARTHMOVING EQUIPMENT</li> <li>* POTENTIAL NOISE RECEPTORS: SURROUNDING RESIDENTS</li> <li>* PROXIMITY OF WORKS TO NOISE RECEPTORS: WITHIN 200m</li> </ul>	LIKELY  MODERATE
	<u>CONSEQUENCE</u>
	MODERATE
	<u>OVERALL RISK</u>
	SIGNIFICANT

TRAFFIC	
ISSUES:	<u>LIKELIHOOD</u>
<ul style="list-style-type: none"> <li>* LOCATION OF TRAFFIC HAZARDS: HENDY MAIN ROAD</li> </ul>	CERTAIN  MAJOR
	<u>CONSEQUENCE</u>
	MAJOR
	<u>OVERALL RISK</u>
	SIGNIFICANT

OTHER	
ISSUES:	<u>LIKELIHOOD</u>
<ul style="list-style-type: none"> <li>* ACCESS TO SITE: HENDY MAIN ROAD</li> <li>* LOCATION OF SERVICES: HENDY MAIN ROAD</li> </ul>	CERTAIN  MAJOR
	<u>CONSEQUENCE</u>
	MAJOR
	<u>OVERALL RISK</u>
	SIGNIFICANT

ISSUE	ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED

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PROJECT: HENDY MAIN ROAD  
MORIAC

SURF COAST SHIRE

CIVIL DRAWING

DRAWING TITLE: ENVIRONMENTAL MANAGEMENT PLAN  
TYPICAL DETAILS

TGM REF. No: 11811-200

SHEET: 0 OF 2 REV: 00

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