



EFFLUENT PIPE
REPLACEMENT SCHEME,
NEWPORT.
GROUND INVESTIGATION
BEACH WORKS



2021

OUTLINE
METHOD STATEMENT
&
RISK ASSESSMENTS



Document Control Sheet						
Title			Document No.			
Effluent Pipe Replacement Scheme. Ground Investigation beach works. Method Statement & Risk Assessments			KM/SOLUTIA/RAMS/BEACH/GI/17/01/22			
Originator			Client			
 Kaymac Marine & Civil Engineering Ltd Osprey Business Park Byng Street Landore Swansea SA1 2NR Tel: 01792 301818			 Solutia U.K. Ltd Corporation Road, Newport, South Wales. NP19 4XF			
Authorisation						
Prepared by:	J. Dean	Signature	Date 07/12/2021			
Checked By:	J. Colcombe	Signature	Date 07/12/2021			
Approved by:	J. Lippiett	Signature	Date 07/12/2021			
Distribution and Revision Status						
Issue Date	Document Description	Status/Revision				
07/12/2021	This document covers the Beach Ground Investigation Works on the effluent pipe in Newport on behalf of Solutia UK	Draft	Project Issue	1	2	3
Copy No.	Issued to					
1	Solutia UK – Ian Barklam	✓				
2	Solutia UK - David Davies (Engineering Manager).	✓				
3	Solutia UK – Rhys Price	✓				
4	Kaymac Marine Records	✓				
5	NRW Marine Licensing – Emma Lowe	✓				
6	APEM LTD – Nick O’Brien					

Contents		
Section No.	Title	
1.0	Introduction	
	1.1	Description & Purpose of the Project
2.0	Project Site Location Details	
	2.1	Project Site Location Details
	2.2	Site Location Map
	2.3	Access to site
3.0	Legislative and Site Specific Compliance	
	3.1	Statutory Legislation
	3.2	Additional Site Specific Compliance
	3.3	Environmental Considerations
4.0	Project Resources	
	4.1	Site Personnel
	4.2	Site Welfare and Storage
	4.3	Site Plant & Equipment
	4.4	Materials
	4.5	Personnel Protective Equipment (PPE)
5.0	Project Directory	
	5.1	General Contact Numbers
	5.2	Emergency Contact Numbers
6.0	Method Statement	
6.1	Addendum to Method Statement	
7.0	Emergency Procedures	
	7.1	Local Hospital Details
	7.2	Hospital Location Map
	7.3	Actions on Minor Injuries
	7.4	Actions on Major Injuries
	7.5	Reporting Accidents, Work Related Diseases and Dangerous Occurrences
8.0	Risk Assessment Record	
9.0	Briefing Attendance Record	

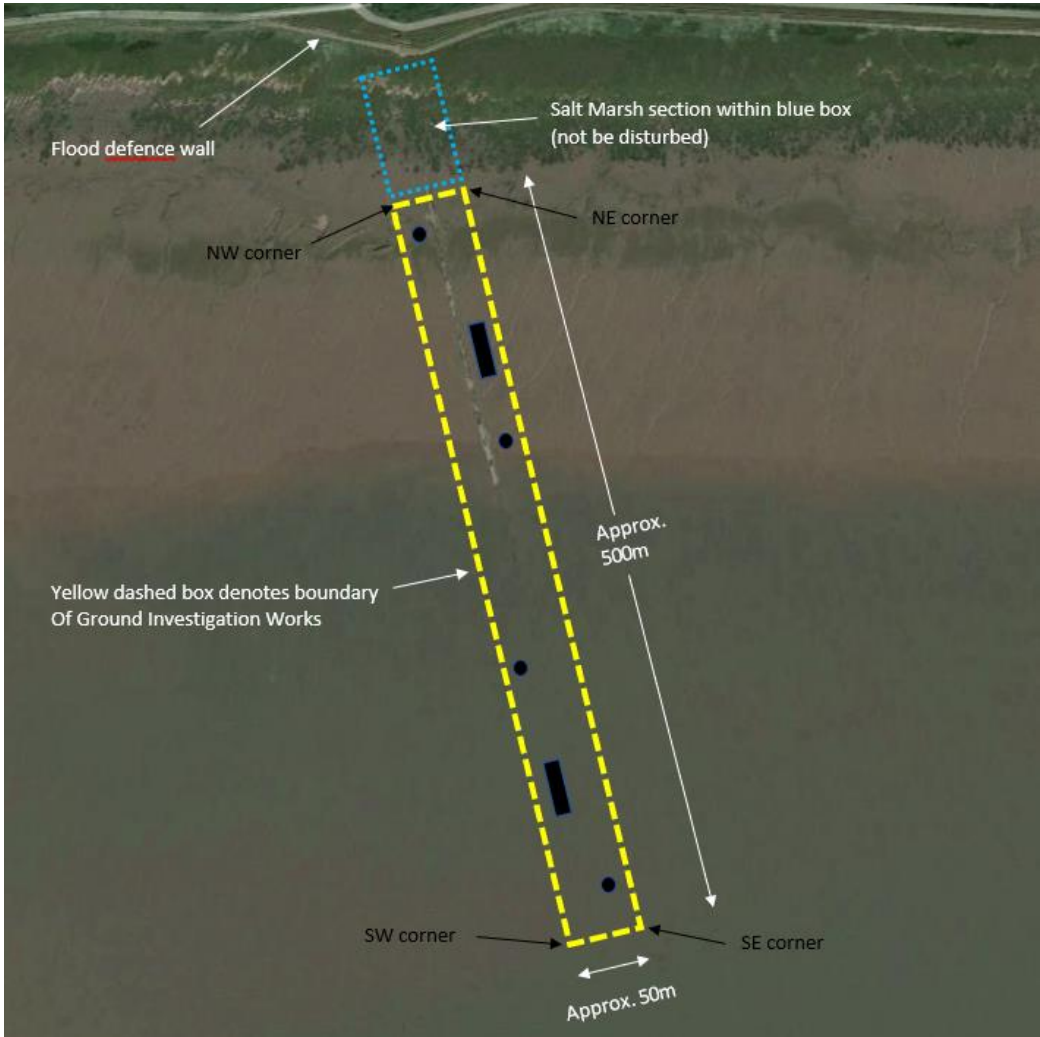
Section 1.0	Introduction		
1.1	Description & Purpose of Project		
Kaymac Marine & Civil Engineering Ltd have been commissioned by Solutia UK to carry out Ground Investigation Works adjacent to the existing outfall pipe at Newport. This will include 4no borehole locations and 2 no trial pit locations as identified in the site location plan below. This information will be used for the preparation for design of the replacement pipe and associated methodology. The work will involve access via the River Severn with a landing craft vessel which will be carrying a 15t Excavator and a small tracked drilling rig. Duration of the works will be 2 days over the low water periods.			
Section 2.0	Site Location		
2.1	Project Site Location Details		
Nearest Address		Salt Marsh Lane, Goldcliff, Nash, Newport, Wales	
Post Code	NP18 2AT		
OSGB	ST 34371 82340		
Lat/Lon	51.536134 , -2.9476176	Easting/ Northing	334371 , 182340
2.2	Site Location Map		
 Flood defence wall Salt Marsh section within blue box (not be disturbed) NW corner NE corner Approx. 500m Yellow dashed box denotes boundary Of Ground Investigation Works SW corner SE corner Approx. 50m <i>Approximate locations of trial pits and boreholes - Image courtesy of Google Earth</i>			



Image courtesy of Google Earth

Section 3.0	Legislative and Site-Specific Compliance
3.1	Statutory Legislation
This document has been prepared to comply with, as far as reasonably practicable, the following current relevant legislation (as applicable): • The Health & Safety at Work etc. Act 1974 • The Management of Health & Safety at Work Regulations 1999 • The Health & Safety (First Aid) Regulations 1981 • The Lifting Operations and Lifting Equipment Regulations 1998 • The Work at Height Regulations 2005 • The Personal Protective Equipment at Work Regulations 1992 • The Manual Handling Regulations 2002 • The Control of Substances Hazardous to Health Regulations 2002 • The Reporting of Injuries, Diseases & Dangerous Occurrences (RIDDOR) Regulations 2013 • The Environmental Protection Act 1990 • The Lifting Operations and Lifting Equipment Regulations 1998 (LOLER)	
3.2	Additional Site-Specific Compliance
• Works will only take place at low tide periods when it is safe to access the beach • Throughout the works, Kaymac will as far as reasonably practical to ensure that no activities will be completed in a manner that could damage or alter the existing beach profile. • Appropriate signage and barriers will be erected around the work site to inform possible beach users of the impending works. • The excavated materials will be stored separately so as to allow the backfilling process to follow the same sequence • Prior to demobilising from site, Kaymac will ensure that the beach profile is restored to its original state (So far as is reasonably practical). • All operatives will hold current CSCS cards • The relevant Covid site procedures to be adhered to at all times • Any excavation will be suitable battered to an acceptable angle prevent any collapse of the sides. • Kaymac will fill out and 'self-issue' a Permit to Dig and a Permit to Break Ground prior to any excavation works.	
3.3	Environmental Considerations
Throughout all aspects of the works, Kaymac will actively aim to conduct activities in a manner that will cause minimum detrimental effects to the local ecology and wildlife and as a result, we will carry out the works with the following Environmental Actions: • Prior to the commencement of any works, Kaymac will obtain all relevant Licenses and permits from NRW and any other regulatory authority. All works will be carried out in accordance with the above Licenses and permits. • All plant delivered to site will be sourced from a trusted reputable company and upon ordering, Kaymac will enforce the notion that any plant to be delivered will need to be cleaned and fit for purpose (no leaks or damaged pipelines, hoses, etc). Upon arrival to site, the Kaymac Supervisor will proceed to inspect the plant for any visible signs of leaks or un-cleanliness that could potentially damage the ecology. All plant will also come with spill kits which all of Kaymac Personnel are trained in the use of. • All plant that is to be used on the beach or the floating plant will be fitted with bio-degradable oil to negate any environmental issues in the unlikely event of a spillage or leak. • No refuelling procedures are to be carried out at sea during the works. All re-fuelling will take place at Cardiff Barrage or other local port/harbour. • All equipment being used on or near to the watercourse will be appropriately 'bundled' to prevent any possible spillages from harming the local ecology and wildlife.	

Section 4.0	Project Resources
4.1	Kaymac Site Personnel
	• 1 x Landing Craft Skipper • 1 x Landing Craft Deck Hand • 1 x Kaymac Engineer/Supervisor • 1 x Kaymac Excavator operator • 1 x Kaymac Banksman • 2 x Kaymac General Operatives • 2 x Quantum drilling rig operatives (to carry out Boreholes)
4.2	Site Welfare & Storage
	• Welfare facilities will be available on the landing craft
4.3	Site Plant & Equipment
	• Suitable Surveying equipment to identify the locations of the trial pits and boreholes • Landing Craft “Terramare 1” supplied by Marine & Towage Services (MTS) • 15t 360° tracked excavator with Bio Oil and digging bucket – trial pits • Terrier Rig tracked drilling rig – boreholes • Fencing and signage as required • Emergency stretcher for recovery to boat road
	
Landing Craft “Terramare 1”	



Terrier Rig tracked boring rig

4.4	Materials
N/a	
4.5	Personal Protective Equipment (PPE)
The <u>minimum</u> PPE requirements for the site will be: • Safety Helmet to BS EN397:2012; • Safety Boots (or Wellington Boots) to ISO 20345:2011; • High Visibility Jacket/waistcoat to EN471:2003; • Safety Glasses to EN166. • Closed cell neoprene Dry Suits (if required)	

Section 5.0	Project Directory
5.1	General Contact Numbers
Solutia UK site Representative - David Davies	
01633 754454	
Kaymac Site Supervisor – TBC	
TBC	
Kaymac Marine & Civil Engineering Ltd-Swansea Office	
01792 301818	
Kaymac Project Director-Rhys Colcombe	
07950501774	
Kaymac Project Coordinator-Jon Dean	
01792 301818	
Kaymac Operations Director-Jeff Lippiett	
07971 880029	
5.2	Emergency Contact Numbers
The Grange University Hospital	
01633 493100	
HSE Incident Contact Centre	
0845 3009923	
HSE Infoline	
08701 545500	
Kaymac Health & Safety Manager-Gareth Crees	
07971 880028	
Ambulance, Police or Fire & Rescue Service	
999	

Section 6.0	Method Statement
<u>All on-site works will be undertaken in accordance with the Kaymac Covid19 procedures.</u> All Key personnel will attend the Solutia offices prior to commencement of the works to attend an induction and RAMS Review. For the purposes of the methodology, it has been assumed that 1no trial pit and 2no boreholes will be completed on the first day during the low water period. The equipment will then be loaded back onto the landing craft before the tides comes in. The vessel will then return back to Cardiff Harbour and remain there overnight. The landing craft will then be re-mobilised to the beach on the 2nd day to complete the remaining 1no trial pit and 2no boreholes. <u>Mobilisation of floating plant</u> All the necessary plant and equipment to undertake the works will be loaded onto the landing craft and sea fastened at Cardiff Harbour. At a suitable state of the tide, the vessel will leave the harbour and will sail the 10 nautical miles to the site at Newport. This will take approximately 2 hrs. The landing craft will ground itself as far up the beach as possible to maximise the working window before the tide comes back in. The plant and equipment will be checked for any leaks before any items are tracked off the landing craft and onto the beach. The locations of the trial pits and bore holes will be identified and marked by the Kaymac Engineer. The relevant plant and equipment will be tracked to those locations. Prior to commencing any works, the Kaymac Site Supervisor will carry out a safety briefing informing the site team of each individual's roles and responsibilities, emergency procedures in the event of an on-site incident, and the hazards and control measures relevant to the tasks required. All personnel in attendance will be required to sign the Briefing Attendance Record in section 9.0 of this document. <u>Excavation of 2no Trial Pits</u> The trial pits are to excavated with a 15th 360° excavator Before any excavation work is carried out, the area will be CAT scanned to ensure there are no buried services in the vicinity of the dig. The required permits i.e., 'permit to dig' and 'permit to break ground' will then be completed by the Supervisor and kept for record purposes. Safety fencing will be erected to prevent any unauthorised access from members of the public. Under the guidance of a banksman, the machine operator will position the machine on a level surface and in a suitable location taking into consideration any surrounding features that may interfere with the slewing radius i.e., the existing pipe, sand banks or rock outcrops etc. Under the guidance of a banksman, the operator will commence to excavate the trial pit in a methodical manner removing the top silt layer first then reducing the level in stages ensuring to batter the sides to a suitable angle as he progresses.	

The material will be stockpiled in a designated area adjacent to the excavation and every attempt will be made to separate the material into individual layers (as it is excavated) so the layers can be reinstated in the same order i.e., the harder material will go back in first (if applicable).

Once the excavation is down to the proposed formation level, the appropriate measurements, photographs and samples will be taken if required.

When all the relevant information has been obtained, the excavation will be filled back in using the stockpiled material in the same order as it was excavated if possible.

The operator will then ensure that the finish level of the material is the same as the surrounding beach level before removing the fencing and tracking the excavator back onto the landing craft.

This process will be repeated on day 2 for the remaining 1no trial pit.

4no Boreholes

The proposed rig to undertake this dynamic sampling work would be the Archway DART Terrier rig (see page 8 for photograph)

Before any excavation work is carried out, the area will be CAT scanned to ensure there are no buried services in the vicinity of the dig. The required permits i.e., 'permit to dig' and 'permit to break ground' will then be completed by the Supervisor and kept for record purposes.

Safety fencing will be erected to prevent any unauthorised access from members of the public.

The rig will be tracked into the correct position under the control of a Banksman

Prior to boring, the rig will be stabilised by extending the outriggers.

The first 1m core & liner will be inserted into the rig and using a percussive action drop hammer, the core will be driven into the ground with a speed of up to 50 blows per minute.

Once the core has been driven to a 1m depth, the 2nd core & liner will be attached to the 1st core and boring will continue until the required depth (approx. 4m) is reached.

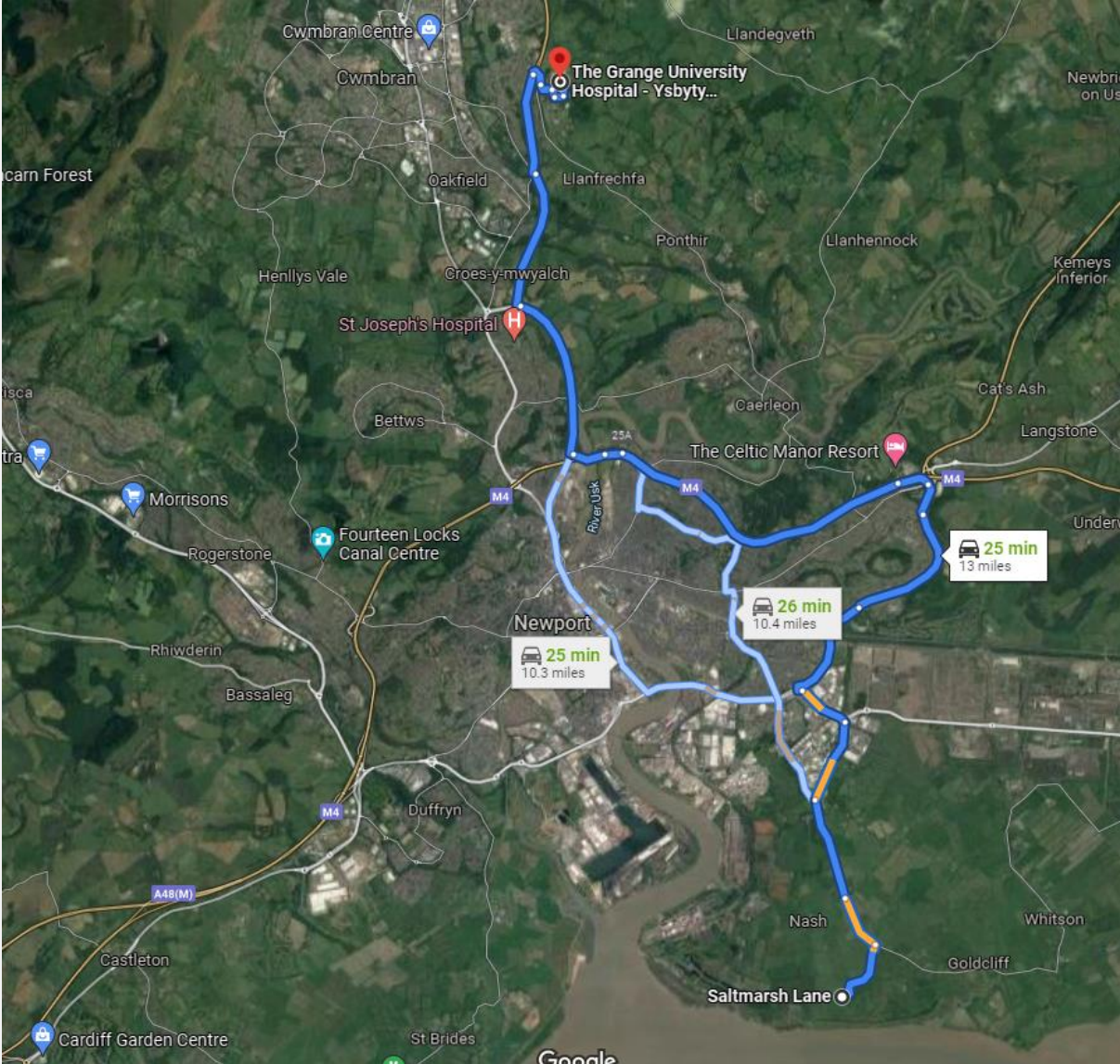
The cores & liners will then be retracted carefully one at a time ensuring that the sample is kept intact.

The recovered sample liners are split, photographed and logged in accordance with BS5930: 2015; BS EN ISO 14688-1:2002 and BS EN ISO 14688-2:2005, by a QGL Engineering Geologist.

Kaymac will ensure that any holes are filled up with similar material and that the finish level of the material is the same as the surrounding beach level before removing the fencing and tracking the rig back onto the landing craft.

This process will be repeated on day 2 for the remaining 1no trial pit.

On completion of the works the site will be left clean and tidy and all the relevant authorities will be notified.

Section 7.0	Emergency Procedures
7.1	Local Hospital
A stretcher will be available on site at all times. In a man down scenario, the casualty will be placed on a stretcher by the remaining team and carried up the beach to boat road where they will be placed in a company vehicle and taken to the nearest access point for a waiting ambulance. Recovery point address and post code: Salt Marsh Lane, Goldcliff, Nash, Newport, Wales, NP18 2AT. What3Words: cluttered.blank.saddens Grid Reference: ST 34776 82709 The nearest hospital with a 24-hour accident and emergency unit has been identified as: The Grange University Hospital Caerleon Road Llanfrechfa Cwmbran NP44 8YN Transfer time by road; 25 minutes (distance: 13 miles).	
7.2	Hospital Location Map
	

Section 7.0	Emergency Procedure (Continued)
7.3	Action on Minor Injuries
Administer First Aid on site. From here the company vehicle will transport the injured person to the local casualty department at the above-mentioned hospital. A record of the accident is to be entered with all details in the Company Accident Book, and notify the client's responsible person.	
7.4	Action on Major Injuries
Administer First Aid on site, and then contact the emergency services requesting an ambulance to the site post code NP18 2AT. A record of the accident is to be entered with all details in the Company Accident Book, and notify the client's responsible person. Kaymac Site Manager or his deputy will record on the accident on Kaymac Accident & Incident Report form QPF11 and pass on Kaymac Health and Safety manager who will ensure H.S.E. is informed by way of form F2508.	
7.5	Reporting Accidents, Work Related Diseases and Dangerous Occurrences
<u>Reporting procedures</u> The Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013 (RIDDOR) require that certain accidents that happen on site must be reported to the Health and Safety Executive. Any of the following types of accidents that occur on site have to be reported in the first instance to the company Safety Officer or Safety Manager who will then notify H. S. E. Serious or fatal accidents must be notified without delay to HSE, by calling the Incident Contact Centre (ICC) during normal office hours on 0845 300 9923. Outside these hours, the local HSE office must be contacted. For details of the nearest HSE office, telephone the HSE Infoline on 08701 545500. This must be followed up with a completed accident report form (F2508) within 10 days. For less serious injuries, where the injured person is unfit (or unable) to do their normal working job for seven consecutive days, excluding the day of the accident, a completed accident report form F2508 must be sent to HSE within ten days. If a dangerous occurrence happens on site, for example, a building, scaffold or false work collapse, failure of a crane or lifting device or contact with overhead lines, it must be reported immediately, normally by telephone, by calling the Incident Contact Centre (ICC) during normal office hours on 0845 300 9923 or the nearest HSE office. The details must be confirmed within ten days on a completed accident form (F2508). If a worker suffers from a specified disease associated with their current job, it must be reported to the HSE on a completed disease report form (F2508A). <u>Keeping records</u> A record must be kept of any reportable injury, disease or dangerous occurrence. This must include the date and method of reporting; the date, time and place of the event, personal details of those involved and a brief description of the nature of the event or disease. The record can be kept in any form preferred, but each site is supplied with a copy of the Accident Book BI 510 issued by the HSE, and this is the company's preferred method of keeping such records.	

Section 8.0		RISK ASSESSMENT RECORD										Page 1 of 4		
RISK ASSESSMENT														
HARM	RISK CALCULATION MATRIX						GUIDE BOX				RISK RATING, REVIEW AND ACTION REQUIRMENTS			
	5	5	10	15	20	25	CATEGORY	HARM	LIKELIHOOD	RISK RATING	Risk rating obtained at intersection of harm and likelihood in Calculation Matrix			
	4	4	8	12	16	20		1	NON-INJURY		ALMOST IMPOSSIBLE	Review period	Action	
	3	3	6	9	12	15		2	FIRST AID		UNLIKELY	1-4	12 months	No further immediate action. Review annually.
	2	2	4	6	8	10		3	< 7 DAYS		POSSIBLE	5-9	6 months	No further immediate action. Re-assess during next review.
	1	1	2	3	4	5		4	> 7 DAYS		LIKELY	10-16	3 months	Reduce risk and re-assess within review period.
	1	2	3	4	5	5		MAJOR INJURY	ALMOST CERTAIN		17-25	Immediate	Stop-reduce risks/mitigate effects, re-assess immediately.	
LIKELIHOOD														
Hazard Identified		Persons at Risk		Controls in Place				Risk Rating before control measure		Actions to Further Reduce Risk		Risk Rating after control measure		
Slips, Trips and Falls resulting in musculoskeletal injuries		Kaymac Site Operatives		Wear appropriate safety boots with good tread; avoid walking on slippery/wet surfaces, Be vigilant and probe any soft ground before attempting to walk on it.				10		Take extra precautions when working in wet weather.		5		
Manual Handling; back injuries		Kaymac Site Operatives		Wherever possible, mechanical lifting should be used for lifting loads. If manual lifting is necessary, use kinetic lifting techniques, share the load if possible; ensure ground is level and stable.				10		Carry out a Manual Handling Assessment where necessary; carry out health monitoring for personnel.		5		
Working in/around contaminated water resulting in water		Kaymac Site Operatives		Cover any cuts or abrasions with waterproof dressing prior to work. Wear gloves! Wash and disinfect hands prior				7		Report any flu like symptoms 7-10 days after possible infection; seek medical advice.		4		

borne infections including Leptospirosis.		to eating or drinking; report any injuries immediately to site management. Kaymac guidance notes on Leptospirosis to be available to personnel.			
Exposure to wet or windy conditions	Kaymac Site Operatives	Appropriate clothing to be worn during poor weather conditions-surface swimmers to wear diver's dry suits (if applicable)	6	No further action required.	4
Sudden increase in water flow or level through rainfall or incoming tide	Kaymac Site Operatives	Check tide table and weather report prior to commencement of works and monitor during duration of shift. If flows or water levels are predicted to/or increase to a point where a risk is perceived, works should cease and all equipment and personnel should be withdrawn from the site.	10	No further action required.	6
Falls from height from top of walls or riverbank while accessing foreshore by ladder resulting in musculoskeletal injuries.	Kaymac Site Operatives	Ladders will be secured to the top of the riverbank/wall to prevent movement while accessing by personnel and will extend high enough beyond height of wall to allow personnel to use as a handhold while stepping off at top of wall.	6	No further action required.	3
Noise	Kaymac Site Operatives/Other Site Operatives	Ear defender to be available if noise levels rise to more than 80 dB(A) Daily Personal Exposure Level	9	Noise monitoring to be carried out by site management.	5
Pollution caused by leaking plant and machinery	Kaymac Site Operatives/Other Site Operatives	All plant and machinery to be checked at the start and end of each shift. All plant entering the watercourse will contain environmentally friendly Bio Oil. Spill kits to be available for all items of plant. Plant movements in the water are to be kept to a minimum	8	Checks are to be carried out daily and any issues reported straight to the site manager.	5
Substances hazardous to health i.e. diesel fuels	Kaymac Site Operatives	COSHH Assessments are to be completed and briefed to the workforce upon arrival to site.	10	All chemicals/substances, etc will be stored in a lockable COSHH storage unit on site.	6
Re-fuelling of plant & equipment	Pollution incident	No refuelling is to be carried out within 10m of the watercourse at any time.	9	No further action required.	6
Working with heavy	Kaymac Site	Select appropriate machine for the	10	No personnel to work under	5

plant i.e., 15t excavator	Operatives	works; personnel to wear high visibility clothing, trained CPCS personnel to sling loads or direct machine operator.		suspended load being lowered into watercourse.	
Excavations	Kaymac Site Operatives	Appropriate warning signage to be erected to warn people of the shallow excavation. Prior to any excavation, services drawings will be checked as will the surrounding area for any evidence of services. Only CPCS trained operators to use the excavator. Ensure that the sides of the excavation are battered at a safe angle.	15	No further action required.	5
Ecological hazards associated with wildlife	Injury/ death to animals, protected species, etc	WFD and HRA assessments to be undertaken prior to commencement on site.	9	The site will be monitored at all times for evidence of wildlife activity. Any activity will be reported to the site manager.	6
Contact with buried services.	Kaymac Site Operatives	Prior to any excavation or borehole drilling, the area is to be CAT Scanned by a trained operative.	15	Service drawing to obtained from the Client where possible	5
Movement of company vehicles during access / egress to site	Members of the Public/ Kaymac Site Operatives	Ensure that banksman is in attendance while moving vehicles on site.	15	Ensure site fencing or barriers are erected where required	5
Public interface. Death / injury of public following entry to working area.	Members of the Public	Border around work site to be fenced, preventing public from entering the works site.	15	Kaymac to remain vigilant at all times	5
Working from Landing Craft - Falling from height into water	Kaymac Site Operatives	All personnel to wear life jackets when working close to the water's edge-stay behind hand railings.	16	No further action required.	4
Poor weather conditions causing high waves - Overturning of floating plant/ Drowning	Kaymac Site Operatives	Weather is to be monitored by the Kaymac supervisor throughout each day. If the conditions are deemed too poor to allow works to be carried out safely, works will cease until conditions improve.	15	No further action required.	5

Section 9.0 Briefing Attendance Record

Time / Date And Subject Items Of Briefing	
10:00 AM	1. Review of the previous day's briefing.
10:15 AM	2. Presentation of the current situation.
10:30 AM	3. Discussion of the current situation.
10:45 AM	4. Presentation of the current situation.
11:00 AM	5. Discussion of the current situation.
11:15 AM	6. Presentation of the current situation.
11:30 AM	7. Discussion of the current situation.
11:45 AM	8. Presentation of the current situation.
12:00 PM	9. Discussion of the current situation.
12:15 PM	10. Presentation of the current situation.
12:30 PM	11. Discussion of the current situation.
12:45 PM	12. Presentation of the current situation.
1:00 PM	13. Discussion of the current situation.
1:15 PM	14. Presentation of the current situation.
1:30 PM	15. Discussion of the current situation.
1:45 PM	16. Presentation of the current situation.
2:00 PM	17. Discussion of the current situation.
2:15 PM	18. Presentation of the current situation.
2:30 PM	19. Discussion of the current situation.
2:45 PM	20. Presentation of the current situation.
3:00 PM	21. Discussion of the current situation.
3:15 PM	22. Presentation of the current situation.
3:30 PM	23. Discussion of the current situation.
3:45 PM	24. Presentation of the current situation.
4:00 PM	25. Discussion of the current situation.
4:15 PM	26. Presentation of the current situation.
4:30 PM	27. Discussion of the current situation.
4:45 PM	28. Presentation of the current situation.
5:00 PM	29. Discussion of the current situation.
5:15 PM	30. Presentation of the current situation.
5:30 PM	31. Discussion of the current situation.
5:45 PM	32. Presentation of the current situation.
6:00 PM	33. Discussion of the current situation.
6:15 PM	34. Presentation of the current situation.
6:30 PM	35. Discussion of the current situation.
6:45 PM	36. Presentation of the current situation.
7:00 PM	37. Discussion of the current situation.
7:15 PM	38. Presentation of the current situation.
7:30 PM	39. Discussion of the current situation.
7:45 PM	40. Presentation of the current situation.
8:00 PM	41. Discussion of the current situation.
8:15 PM	42. Presentation of the current situation.
8:30 PM	43. Discussion of the current situation.
8:45 PM	44. Presentation of the current situation.
9:00 PM	45. Discussion of the current situation.
9:15 PM	46. Presentation of the current situation.
9:30 PM	47. Discussion of the current situation.
9:45 PM	48. Presentation of the current situation.
10:00 PM	49. Discussion of the current situation.
10:15 PM	50. Presentation of the current situation.
10:30 PM	51. Discussion of the current situation.
10:45 PM	52. Presentation of the current situation.
11:00 PM	53. Discussion of the current situation.
11:15 PM	54. Presentation of the current situation.
11:30 PM	55. Discussion of the current situation.
11:45 PM	56. Presentation of the current situation.
12:00 AM	57. Discussion of the current situation.
12:15 AM	58. Presentation of the current situation.
12:30 AM	59. Discussion of the current situation.
12:45 AM	60. Presentation of the current situation.
1:00 AM	61. Discussion of the current situation.
1:15 AM	62. Presentation of the current situation.
1:30 AM	63. Discussion of the current situation.
1:45 AM	64. Presentation of the current situation.
2:00 AM	65. Discussion of the current situation.
2:15 AM	66. Presentation of the current situation.
2:30 AM	67. Discussion of the current situation.
2:45 AM	68. Presentation of the current situation.
3:00 AM	69. Discussion of the current situation.
3:15 AM	70. Presentation of the current situation.
3:30 AM	71. Discussion of the current situation.
3:45 AM	72. Presentation of the current situation.
4:00 AM	73. Discussion of the current situation.
4:15 AM	74. Presentation of the current situation.
4:30 AM	75. Discussion of the current situation.
4:45 AM	76. Presentation of the current situation.
5:00 AM	77. Discussion of the current situation.
5:15 AM	78. Presentation of the current situation.
5:30 AM	79. Discussion of the current situation.
5:45 AM	80. Presentation of the current situation.
6:00 AM	81. Discussion of the current situation.
6:15 AM	82. Presentation of the current situation.
6:30 AM	83. Discussion of the current situation.
6:45 AM	84. Presentation of the current situation.
7:00 AM	85. Discussion of the current situation.
7:15 AM	86. Presentation of the current situation.
7:30 AM	87. Discussion of the current situation.
7:45 AM	88. Presentation of the current situation.
8:00 AM	89. Discussion of the current situation.
8:15 AM	90. Presentation of the current situation.
8:30 AM	91. Discussion of the current situation.
8:45 AM	92. Presentation of the current situation.
9:00 AM	93. Discussion of the current situation.
9:15 AM	94. Presentation of the current situation.
9:30 AM	95. Discussion of the current situation.
9:45 AM	96. Presentation of the current situation.
10:00 AM	97. Discussion of the current situation.
10:15 AM	98. Presentation of the current situation.
10:30 AM	99. Discussion of the current situation.
10:45 AM	100. Presentation of the current situation.

Project Title:				Doc. Ref. No:	
Date:		Job No:		Time:	
Subject Of Briefing:					
Name Of Person Giving Briefing:			Signature:		

SIGNATURE CONFIRMS ATTENDANCE AT ABOVE BRIEFINGS.

Briefing Record	
-----------------	--

[illegible]