

Outline Method Statement

PROJECT REF:

GC23615 Crisp Malt - Short Sea Outfall Inspection and Repair

BACKGROUND

This method statement has been prepared in support of proposed investigation and repair activities to the existing short sea outfall 200m west of Portgordon, Moray, operated by Crisp Maltings Ltd under SEPA licence CAR-L-1002409-VAR01.

In advance of understanding the full extents and nature of the repair works required, a Marine License is being sought in support of supplementary investigative works in addition to subsequent repair works. It is expected this Outline Method Statement will be replaced by specific work-related Risk Assessments and Method Statements by specialist Contractors selected to carry out the works.

Notwithstanding the above, the contents of the following Outline Method Statement broadly follow similar repair activities carried out on other short sea outfall structures along the Moray coastline.

PERSONAL PROTECTIVE EQUIPMENT

PPE to be task specific and suitable for the intended activities, as determined by the relevant activity Risk Assessment

Safety helmet	Ear protection
Safety boots or wellingtons	Flame retardant coveralls
High visibility vest/jacket	Dust mask
Gloves	High visibility trousers
Eye protection	Inflatable life jacket

HAZARDS

Plant / people interface
Loading / unloading materials
Refuelling
Operation of plant
Excavation works
Drowning

ENVIRONMENTAL REQUIREMENTS / SPECIAL PRECAUTIONS

Eliminate unnecessary waste
Reduce amount of waste created on site
Re-use materials as far as possible
Recycle materials wherever possible
In the event of a spill – Stop, Contain and Notify
Works to be carried out in accordance with the Marine Mammal Code

RISK ASSESSMENTS / COSHH ASSESSMENTS

As per the Contractor's Safety File

PLANT AND EQUIPMENT

All equipment must carry an "in date" inspection where applicable.
All plant and equipment must be inspected before use.
Where certificates are applicable, these must be within date and be available for scrutiny.

Plant	Description / Comment
Mobile Welfare Unit	
Lighting Tower	
Heras Fencing	
20ft Storage Container	
Mobile Fuel Cell	Bunded and visiting site only.
Pedestrian Barriers / Heras Fencing	
Service Locator / Scanner	
3 / 8 / 20 Tonne Excavators	Complete with breaker attachment during manhole removal and pipe breakout
7 / 9 Tonne Dumpers	
Tilt drum concrete mixer	
110V Generator	
Small plant and hand tools	
Drainage CCTV survey unit	Investigation stage
Concrete tremie	
2" Concrete Poker	
Skip	

SUGGESTED MINIMUM SPECIALIST COMPETENCE REQUIRED

Individual &/or Company Name	Requirement / Experience / Qualifications etc.
Supervisor	5 Day SMSTS
General Operator	CSCS level
Plant Operator	CPCS or NPORS
Each Squad	3 Day / Emergency First Aider

CO-ORDINATION WITH OTHER SITE OPERATIONS

Working Area

The working area will be restricted to the designate area applied for in the Marine License application.

Parking

Parking is to be restricted to the designated site parking area. On access routes, priority to local traffic and Contractor personnel will be given where required. Site laydown area as agreed with client/local authority and identified on location map. Site access route to e as identified and agreed with client/local authority. Any deviation due to local ground or site conditions to be notified to the Site Co-ordinator.

Emergency Procedures

First aid provision to be made in site welfare accommodation. Emergency procedures explained during site induction to be followed.

General Notes

- Report to site office for induction and issue of permits
- Follow all designated access routes
- Do not work outside of safety barriers
- All material deliveries to be controlled and banked by the Main Contractor, with bulk stone deliveries to be delivered as close to working area as possible
- Report to site office on completion of works and to enable closing off of permits

JOB / TASK SEQUENCE**General Pre-Start Activities**

- Site welfare to be set up within agreed designated laydown areas.
- Heras fencing to be erected around laydown areas
- Rip-rap delivery area to have road plates / Type 1 installed to protect ground
- Site signage to be erected
- Confirm and identify designated access route to work location
- Install access ramp from beach head onto beach utilising 20 tonne excavator and 6F4 material (to be removed on completion of all works)
- Ensure a safe access route past the laydown areas is identified for the public
- All permits to be secured
- All Method Statements and Risk Assessments to be reviewed and signed by Main Contractor personnel and their Sub-Contractors

Manhole Removal and Reinstatement / Short Sea Outfall Investigation Works**Task Sequence**

- Adhere to General Pre-Start Activities as required
- Carry out Point of Work Risk Assessment (POWRA)
- Carefully demolish existing brick manhole to foundation level, setting aside and disposing of demolished masonry to site waste
- Locally break out concrete benching at the base of the manhole to expose the cast iron pipe
- Locally break out of the cast iron pipe to facilitate CCTV inspection
- Carefully break out and remove existing concrete foundation
- Construct replacement concrete manhole foundation, excavating to required bearing level, connecting new cast iron pipework to existing with couplers
- Construct replacement brick manhole, lid and cover

Materials

- Clay masonry and mortar bedding
- Foundation concrete
- Reinforcement
- Precast concrete manhole lid
- Cast iron manhole cover
- 150mm cast iron pipe
- Viking Johnson repair flanges

Temporary Materials

- Plywood and timber to form shuttering

Short Sea Outfall Repair – Concrete Repairs**Task Sequence**

- Adhere to General Pre-Start Activities as required
- Carry out Point of Work Risk Assessment (POWRA)
- Power wash the concrete surface to remove vegetation and other contaminants
- Defective areas of concrete to be hammer tested, marked and noted in repair schedule
- Defects to be saw cut ensuring all edges are neat, tidy and square
- Existing reinforcing steel to be retained to be cleaned using a wire brush to remove all rust
- Apply repair mortar in accordance with the manufacturer's written instructions
- Any droppings from material to be lifted, bagged and removed to site waste

Materials

- Clean, fresh water
- Natcem 35 and Natcem AC repair mortars o.e.a.
- Washed building sand
- Concrete to grade RC40/50
- Stainless steel dowels, various diameters and lengths
- Hilti HIT-HY 200 injectable resin o.e.a.
- Steel reinforcing mesh
- Non-woven heavy-duty geotextile
- 6F4 stone, locally sourced
- Rip-rap stone, locally sourced

Temporary Materials

- Plywood and timber to form shuttering

Short Sea Outfall Repair – Pipe Replacement**Task Sequence**

- Adhere to General Pre-Start Activities as required
- Carry out Point of Work Risk Assessment (POWRA)
- Following completion of initial identification activities, locally break and/or cut out defective sections of pipe and concrete surround using breakers and saws as required
- Set aside and dispose of demolished concrete and cast iron pipe to site waste
- Excavate soil for new shallow foundations for replacement section of pipe and concrete surround
- Shutter, fix reinforcement and pour new shallow foundations
- Attach repair flanges to remaining exposed cast iron pipe
- Install new cast iron pipework
- Shutter, fix reinforcement and pour new concrete pipe surround

Materials

- RC40/50 concrete
- Steel mesh reinforcement and loose bar where required

<ul style="list-style-type: none"> - 150mm Cast Iron pipe - Viking Johnson repair flanges o.e.a.
Temporary Materials <ul style="list-style-type: none"> - Plywood and timber to form shuttering
Short Sea Outfall Repair – Foundation Underpinning Repair Works
Task Sequence <ul style="list-style-type: none"> - Adhere to General Pre-Start Activities as required - Carry out Point of Work Risk Assessment (POWRA) - Where identified, locally excavate soil to and debris to half width of the concrete surround - Install formwork along length of affected area - Pour concrete into formwork and cure overnight - Repeat above steps to second half of outfall surround as necessary - Fix reinforcement - Pour foundation concrete - Strike shuttering - Alternative use of bagged concrete can be used
Materials <ul style="list-style-type: none"> - RC40/50 concrete - Bagged concrete (if necessary)
Short Sea Outfall Repair – Rip-rap Installation Works
Task Sequence <ul style="list-style-type: none"> - Adhere to General Pre-Start Activities as required - Carry out Point of Work Risk Assessment (POWRA) - Excavate areas to receive new rip-rap, grade and lay down geotextile - Rip-rap delivered to site at designated laydown area - Rip-rap loaded onto tracked dumper using 20 tonne excavator - Rip-rap lifted and placed in location by 20 tonne excavator with grab attachment
Materials <ul style="list-style-type: none"> - Heavy duty geotextile - Locally quarried stone
COMPLETION OF WORKS
<ul style="list-style-type: none"> - Confirm all works complete - Completion photos taken - Access ramp removed - Close out all permits - Demobilise site

PREPARED BY		
Name	Revision	Date
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