

**NR Project No:** MSE0514 / 0515  
**AG Contract No:** SCOAM25  
**Issue:** Rev01  
**Revision Date:** 22/04/2026

## **Work Package Plan**

*Template based on NR/L2/OHS/0044/F02*

**Prepared by:**

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**Approved by the Contractor’s Engineering Manager (CEM) / Contractor’s Responsible Engineer (CRE):**

**K Docherty Jnr** - CEM / CRE Discipline (*as stated in the CPP*)

**This Work Package Plan does not require acceptance by Network Rail / Client**

Date 22/04/2026  
**MSE0514 / 0515**  
**FORTH VIADUCT**  
**SCOUR REPAIRS**  
**SCM3 / SAA**  
**118.1430 / 0.1170**  
**132/017 / 117/045**  
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## **Introduction**

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## **1.1 Brief outline of work methodology**

### **1.1.1 Work Remit**

#### **MSE0514**

25/26 Scour Repairs and Preventative Action Scour Assessment scores 15.49 and 14.97

Following survey WI 1900552, infill 3no scour holes to pier noses. Works to be done in conjunction with WI for SAA structure 117/045.

#### **MSE0515**

25/26 Scour Repairs and Preventative Action Scour Assessment scores 15.49 and 15.52

Following survey WI 1884117, infill 2no scour holes to pier noses. Works to be done in conjunction with WI for SCM3 structure 132/017 Additional Site-Specific Information

#### **TBS001 – Scour Repairs & Preventative Action**

Note: AmcoGiffen Supervisor to carry out POWRA prior to works commencement each shift

The site supervisor will carry out a site specific briefing to the workforce prior commencing works including:

- Work scope
- Whiteboard brief
- Location of emergency equipment
- Network Rail Hazzard Map
- Known Hazards
- Welfare provisions & Locations
- Check Competencies

Site supervisor will confirm competencies, certification of plant and inspection of tools/plant prior commencement. The AmcoGiffen site supervisor must be on site at all times when works are taking place.

Workforce will park and meet underneath structure 132/017 within Stirling allotments, Access to underside of 132/017 can be gained by turning off A9 under overbridge SAA/044 and proceeding past the rugby club and through padlocked gate, the code for

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padlock is <sup>[Redacted]</sup>, gate is to be closed and locked when not in use by operatives, w3w///dating.socialite.law.

**NOTE: Appropriate exclusion zone to be established around parking area with relevant signage to mitigate pedestrian and 3rd party interface.**

AMCOGIFEN Supervisor will brief the work party on extents and methodology of works including relevant risk and mitigation measures in place.4

### **Segregated Working**

All works have been assessed and deemed to fall under segregated working by responsible manager and appointed site controller as per NR/L2/OHS/00130/02.

Permanent physical barrier identified as the boundary fence line and bridge structure and is located over 3m from nearest running line in accordance with NR/L2/OHS/00130.

Method of segregation and appointed site controller to be briefed to all members of work party on the segregated working.

NOTE: Works have been planned for working segregated and the boundary fence line and structure has been deemed as the fixed permanent barrier in accordance with NR/L2/OHS/00130.

Workforce will then travel down access path to the site location appropriate vegetation removal may be required to facilitate a safe access path for all operatives to use to carry out works.

Competent operatives to utilise fuel powered de-vegetation equipment to clear a safe path for all operatives to access safely.

NOTE: Prior to any de-vegetation works a visual inspection to be carried out at the location and ensure no cables are apparent and if cables are visually identified they have to be isolated and operatives to cut a safe distance from the identified cable.

### ***De-vegetation operations: -***

Competent operatives to carry out de-veg operations within a 3m exclusion zone.

Correct PPE to be worn for the task. Eg. Vulture ballistic trousers (orange).

Operators should work their way down into the vegetation in layers enabling the operator to identify 'hidden' items inside the foliage that may not have been visible during the original site survey.

Nesting bird check form to be completed before any de-veg works are undertaken, especially between March and October.

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All birds are protected by law. It is illegal to intentionally take, damage or destroy a wild bird's nest while it's being used or built, or intentionally take or destroy a wild bird's egg.

Hold Point: The supervisor is to ensure that the workforce is wearing the correct eye protection i.e. Face visor whilst carrying out the de-vegetation works.

NOTE: HAVS to be monitored when operating equipment that causes vibration.

Vegetation to be bagged and placed into appropriate location for later disposal off site.

Workforce will then offload all plant and material for the works into wheelbarrows to transport to work location via established path.

Operatives to be mindful of underfoot conditions, care to be taken when mobilising to site location through path.

Once at the work location the supervisor will set-up exclusion zone surrounding the works area utilising cones and barrier tape, signage will be set up at both sides of the path.

#### **Permit To Dig:**

Sygma trained operative will undertake CAT 4+ and Signal Generator scan of the area, recording any services found, within the permit to dig, and highlighting services with line marker paint.

Workforce to be briefed on locations of any found services.

Site Supervisor will issue Permit to Dig following Sygma operative undertaking Cat and signal generator scan, ensuring all services are recorded and desk top survey have been undertaken.

**NO EXCAVATION WITHIN 1.2m OF KNOWN SERVICES.**

Once survey has been carried out the findings will then be handed to the supervisor who reference back to the service drawings and then will issue a permit to dig for the works.

NOTE: No excavation is permitted within 1200mm of any known service without prior Amco director approval of this WPP

Safe access will then be installed from top of slope down to the watercourse location. Post and Rope system or similar alternative system to be utilised.

A competent L3 IRATA will establish a safe access down to the watercourse so all operatives can access and egress carefully.

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Timber posts shall then be driven into each location utilising a post hammer ensuring that each post is securely into the ground.

Once in position, rope shall then be connected to each post and step hand dug in to enable safe access/ egress for the workforce

### ***Working at height Rope access***

On arrival to the works location a trained and competent Level 3 will set up a safe working rope access system over the required area.

Level 3 will then ascertain a suitable works rescue method for the system in place and ensure conditions are appropriate for the works before briefing all IRATA trained personnel on the specialist RAMS for the site.

All IRATA personnel will then sign onto the rescue plan prior to using the system.

Note: ALL Rope access equipment is to arrive on site Certified to LOLER Regs and the buddy system will be used for harness checks prior to accessing the safe working ropes system.

NOTE: Site Supervisor to issue Permit to Work at Height prior to works.

Site Supervisor to issue Permit to Work in Water. Water samples will be measured against a baseline, gathered upstream of the work area. Where samples fail, pollution mitigation measures are to be considered and works stopped until pollution mitigation measure is installed and confirmed is working. The site supervisor will monitor the water levels throughout the works. If the water levels rise significantly the works will be stopped and the water level allowed to recede, before re-entering the watercourse.

### ***Working Within a Watercourse:***

Site Supervisor to issue Permit to Work in Water. Water samples will be measured against a baseline, gathered upstream of the work area. Where samples fail, pollution mitigation measures are to be considered and works stopped until pollution mitigation measure is installed and confirmed is working.

The Site Supervisor will monitor the water levels throughout the works. If the water levels rise significantly the works will be stopped and the water level allowed to recede, before re-entering the watercourse.

All persons working within the water course will wear wellingtons or chest waders as is appropriate. The wellingtons/chest waders will be cleaned before entry to prevent contamination before works commence.

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Note: Follow Check, Clean, Dry procedure on access/egress to the watercourse.

NOTE: Supervisor to check certs for the skipper to uses recue raft with outboard and all the dive team's paperwork making sure all in order and in date

NOTE: All personnel not competent in commercial diving are to be equipped with life vests at all times during the works

### **Work operations involving commercial diving**

All personnel involved in diving operations are to be trained and competent in commercial diving

Specialist subcontractor RAMS to be issued to Amco for review in advance of the works

Air tanks to be checked prior to each use, additional air to be provided within the rescue craft and on land within the diving set

A certified diving supervisor to be present on site at all times during works to co-ordinate works and rescue operations should and emergency occur on site

The rescue craft shall then be positioned as close to the watercourse as practically possible manually manoeuvred down the post and rope access to the side of the water where it shall be launched.

NOTE: Anyone within the rescue boat will wear a life vest at all times

Once launched the rescue craft shall be utilised to provide access to each pier for a trained and competent Level 3 IRATA technician to set-up and maintain a fixed working line across each pier

NOTE: Whilst drilling its likely to disturb silica dust particles all personnel involved in the task must be equipped with an FFP3 face mask with relevant face fit certification and be clean shaven along with gloves and appropriate eye protection for the task

NOTE: Area to be underlain with visqueen and silt matting to mitigate possible falling debris.

With the use of a TE6A Eyelets/ Petzl Hangers shall first be fitted to each of the piers securing in place with Hilti Hy 200A resin.

NOTE: The level 3 shall then proceed to carry out pull test of the petzl hangers, registering the results on a pull test register.

Once installed and tested, a rope shall be passed through each of the eyelets to provide a safe working line between each pier 2 and 3

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NOTE: The safety line will have markers installed on to it to make it visible to workforce.

NOTE: Tension line will be removed daily and then reinstate before each shift

Once in place the line shall be tensioned to create a fixed anchorage point for later diving operations.

The dive team will then carry out all prestart safety checks prior to works starting and brief the rescue plan to all operatives

The rescue boat will be stationed so in the event of an emergency can assist in safe rescue procedures.

NOTE: Each dive member will be recorded when accessing the water course and signed back out when leaving the water course

NOTE: All commercial diving operations are subject to specialist contractor RAMS and competence checks by the AMCOGIFEN Supervisor

Commercial diving personnel shall complete all safety checks on diving equipment and where required complete an onsite assessment of the watercourse at the work area, all rescue procedures and emergency protocols shall be briefed to all persons on site prior to accessing the watercourse

The commercial dive team will then enter the water course wearing suitable diving equipment and remove debris from around pier 2 and 3 this will then be returned to the surface for later disposal offsite.

The competent dive team will then descend down to the scour locations and infill 40mm washed gravel within scour voids until matching with the existing riverbed, washed gravel can only be utilised if a dry working area can be achieved. Which may indicate soluform bagwork may be the better option.

NOTE: If failing to infill gravel, soluform bagwork will be placed at the base of the scour and used to remediate the structure, these will be placed in formation and drilled into position utilising threaded bar with nuts & washers used to secure in place.

Please see below scour locations and depths for each job:

**MSE0514 Scour Locations and Depths:**

- PIER2 UPSTREAM NOSE 4m2 x 300mm depth,
- PIER3 UPSTREAM 2m2 X 600mm depth,
- PIER3 DOWNSTREAM 1m2 x 600mm depth

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**MSE0515 - Scour Locations and Depths:**

- PIER 2 UPSTREAM NOSE – Scour – Approx 2m<sup>2</sup> x 100mm - 500mm Deeper than surrounding bed.
- PIER 2 DOWNSTREAM NOSE – Scour – Approx 2m<sup>2</sup> x 100mm - 500mm Deeper than surrounding bed.
- PIER 3 UPSTREAM NOSE – Scour – Approx 2m<sup>2</sup> x 100mm - 500mm Deeper than surrounding bed.
- PIER 3 downstream nose – Scour – Approx 2m<sup>2</sup> x 100mm - 500mm Deeper than surrounding bed.

Mixture of methods can be utilised such as the use of rock armour on the top of the scoured location on top of the soluform or washed gravel.

NOTE: Operatives to ensure that from remediation works it does not alter the bed level and it remains consistent with preexisting levels.

**REFER TO EXAM REPORTS 132/017 / 117/045 FOR REFERENCE AND REFER TO SITE IMAGES WITHIN WPP.**

NOTE: In the event of an emergency / rescue requirement all non-essential personnel to the rescue shall cease works and vacate the works area so that all personnel are on dry land

NOTE: life buoys and additional floatation devices shall be positioned around the site in the event that emergency rescue is required

Upon completion of the works, the tension line will be removed along with the rescue boat at the end of each shift

The workforce shall proceed to remove plant, tools and equipment from the works location and load into the trailer for removal from site.

The workforce shall then make way back to parking location and load the debris into the tipper and waste materials returned back to Amcos yard and disposed of in skips

**The supervisor is to ensure that pictures are taken throughout and on completion of works.**

**AmcoGiffen Supervisor will carry out a check of the work site to ensure no materials & equipment has been left within the works vicinity, watercourse and parking area.**

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**Working area to be left clean & tidy.**

1.1.2 The following tasks support this Work Package Plan: <b>Reference &amp; Prepared by:</b>	<b>Task Briefing Sheet Title</b>	<b>Activity Start Date</b>
MSE0514 / 0515 - PA	TBS001 – SCOUR REPAIRS	ASAP