



Aquascience
Ltd

METHOD STATEMENT: Project 607
River Itchen Abutment Repair, Chilland



Title: METHOD STATEMENT TEMPLATE
Date: 16.05.16
Version: Draft
Issued By: Ruth Holzer
Approved By:
Reference: WLWF023

FORMS

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1 Introduction

This project is being carried out on behalf of Hampshire County Council (HCC) and proposes to repair a failing abutment on an existing footbridge spanning the River Itchen on Footpath 48, Itchen Valley CP.

The existing bridge abutment has deteriorated over time due to the erosion caused by the River Itchen. The erosion has led to severe undermining and a resulting in a partial collapsing on one side which has also caused the bridge beams to slope away and damaged the handrails. The bridge abutment has been cast several metres into the channel from the bank top on the outside of a meander, which has left it extremely vulnerable to past and future erosion.

2 General Health and Safety

In accordance with our Health and Safety Procedure, Aquascience Ltd will:

- Plan, manage and monitor the work and the conduct of its workers
- Check the competence of all staff, sub-contractors and appointees
- Ensure our employees are trained for the task in hand
- Provide adequate information on health and safety and risk assessment
- Ensure that there are adequate welfare facilities for its workers

A site-specific risk assessment has been compiled for this project and will be held within the site file.

2.1 Site inductions

All Aquascience Ltd personnel and other visitors will receive a site induction prior to receiving permission to access site compounds and active working areas. This induction will include information on:

- Project objectives and design
- Site hazards and risks, control measures and the project method statement
- Site designations, protected species e.g. water voles, salmonids
- Compulsory bio-security risks and control measures
- Pollution control and the response to incidents
- Emergency procedures
- Required personal protective equipment (PPE). Persons without the required PPE will not be allowed access to the site.



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2.2 Power cables & services searches

There are no known underground services onsite. A search will be undertaken to identify any services in the proximity of the works. No works shall be undertaken until the risks relating to any services identified have been adequately assessed. The location of any services shall be identified using Linesearch and onsite excavations will be preceded by a CAT scan undertaken by a trained member of staff. Access routes will be assessed for feasibility with overhead power cables in mind.

2.3 PPE

Appropriate Personal Protective Equipment (PPE) is to be worn whenever required by risk assessments. The minimum requirement is expected to include steel toe-capped boots and Hi-Visibility jackets. Heavy-duty riggers gloves or waterproof gloves will also be supplied and will be required PPE for most tasks. Ear defenders will be required if noise levels are judged to exceed 85dB, for example when operating machinery.

Works in the main channel will require staff to wear chest waders/dry suits and manual inflating life jackets. Throw lines and thermal blankets will also be kept onsite at all times.

The minimum amount of PPE as detailed below shall be worn on site;

Safety footwear

Hi-vis waistcoats/jackets

Additional PPE shall be identified by task related risk assessments

Hard hats

Safety glasses

Dust mask

Gloves

Life vests and dry suits

Chest Waders

Ear protection

First Aid Officer

TBC during site induction

2.4 Site access, welfare and site security

2.4.1 Access

The best available access is from the south of the site, off Avington Park Lane, using Footpath 48. Aquascience would use this access for plant, materials, deliveries and daily site movements. To best maintain public safety, FP48 would require closing for the duration of the works, with Heras fencing and safety signs creating a solid barrier at either end of the footpath.

This access route crosses two bridges, Aquascience would seek advice on the loading limits of each of these bridges to determine what can be moved over them. Plant has been selected to fit the width limitations of the bridges.



Nearest Postcode: SO21 1ED What3Words: draw.disarmed.offline

The storage compound will be situated as shown on the map above, not within 25m of any watercourse. The compound area is to be used for plant storage only, no materials or other facilities. The compound footprint will be restricted to the ROW, within the confines of existing fences.

2.4.2 Welfare

Welfare facilities shall be provided, sited and secured at a location agreed with HCC and relevant landowners. The welfare facilities will not be situated within the SSSI/SAC protected land. It is proposed that the welfare facilities will remain at the roadside, utilising a grass verge on the south side of Avington Park Lane which will also be used for site vehicle parking and deliveries.

2.4.3 Security

All reasonable steps will be taken to prevent unauthorised access to the site by members of the public, visitors and delivery drivers. Access will be limited to those that have received a site induction and are equipped with appropriate PPE. A banksman will be used to control vehicles arriving at site.



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Footpath 48 would require a closure to be in place from HCC. Unauthorised access to the bridge during construction work shall be prevented by installing Heras fencing on the bridge approaches on both banks.

PID Systems Security will be used to protect the compound area from theft or vandalism. Aquascience have utilised PID across many of their more secluded sites with good success.

2.5 Nearest A&E

A **Royal Hampshire County Hospital** **A&E**

Tel: 01962863535 **Open now**

Romsey Road
Winchester
Hampshire
SO22 5DG **3.6 miles**

More information

Opening Hours
Today: Open 24 hours

2.5.1 Site Grid Reference

Grid Reference

SU 52306 32524

Grid Reference (6 figure)
SU523325

X (Easting) , Y (Northing)
452306 , 132524

Latitude , Longitude (decimal)
51.089653 , -1.254532

Latitude , Longitude (degs, mins, secs)
51°05'23"N , 001°15'16"W

What3Words :
draw.disarmed.offline

3 Environmental Considerations

Aquascience Ltd.'s Environmental policy states that we 'be conversant with and comply with relevant environmental legislation as a minimum level of performance'.



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This site carries statutory designations under the River Itchen SSSI and SAC. A detailed Environmental Risk Assessment will accompany this document and can be found in the site file.

3.1 Bio Security

Aquascience Ltd is committed to a high level of biosecurity in order to prevent the transfer of invasive plants, disease or animal species between sites.

Particular attention is paid to the prevention of invasive plant species such as Himalayan Balsam, Orange Balsam, New Zealand Pigmy weed, the transfer of Signal Crayfish and the associated crayfish plague, and the transmission of Killer Shrimps and Zebra Mussels.

Our standard biosecurity measures include:

- Investigation of the project area and any donor sites by fully trained staff in order to identify potential biosecurity risks
- Inclusion of biosecurity in site inductions and method statements
- Training of site operatives to ensure they understand the importance of biosecurity, can identify species which pose a biosecurity risk, and are fully aware of the potential vectors for invasive species
- Steam-cleaning and/or disinfection of personnel kit, tools and machinery

3.2 Pollution control measures

All works will be carried out in accordance with the Environment Agency's pollution prevention guidelines.

It will not be necessary to store fuel or materials on site. All plant will be parked away from the watercourses at night. Spill trays will be used during re-fuelling and spill kits will be available to deal with any incidents. All machinery will be checked for condition and the presence of leaks when first arriving onsite and at regular intervals.

Refuelling of machinery will be at least 20m away from any section of the watercourse and carried out over a spill tray provided on site. In the unlikely event of a spillage, the Aquascience Ltd Project Manager is to be alerted immediately and the site spill kit is to be deployed to contain the spill.

Concrete mixing will not take place within the vicinity of the watercourse. All concrete used will be readymix and will be delivered to the working area in 1t dumpers. The concrete will be delivered to site using a mixer lorry and situated on Avington Park Lane, outside of the designated land. Where the concrete is offloaded into the dumpers, DPM will be placed to avoid spillages.

The dumpers will not be fully loaded to avoid spillages over uneven ground. The abutment will be lined with DPM to prevent grout-loss into the channel. DPM will also be laid on the access bridges,



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with overlaps tied up to the handrails, to create an additional barrier against spillage into the watercourses.

There will be no requirement for machinery or temporary structures to enter the channel, so mobilisation of suspended solids is not a concern. Staff will be required to enter the channel to install the sandbags and rock rolls, they will keep trips to a minimum and stay close to the True Lefthand Bank, where the work is being carried out, to minimise sediment mobilisation.

Any incident shall be reported promptly to the Environment Agency on 0800 807060.

3.3 Waste Management

Waste will be removed from site by a registered carrier and disposed of at an appropriately licensed site. No waste will be stored on site at any time. As waste is generated, it will be removed to a site vehicle, ready for disposal at the end of the working day.

3.4 Mitigation advice for protected species and habitat

As these works are to be carried out exclusively to an existing structure, the risk to protected species is deemed low.

During the site induction all site operatives will read the Environmental Risk Assessment and be made aware of the ecological risks. Works will be preceded by thorough inspections for protected species, making sure that none of the activities will be harmful.

If any indications of protected species are found, works shall cease whilst appropriate actions are taken.

3.5 Flood Prevention

An assessment has been carried out for this project and flood risk is assessed as low. The project will not change future flood risk.

Construction shall not be carried out following or during periods of significant rainfall.

No temporary structures are required.

A detailed Flood Risk Assessment will accompany this document and can be found in the site file.

3.6 EA Environmental Permit

Due to the nature of the works, a Flood Risk Activity Permit (FRAP) will be required from the EA. Full details of the project will be submitted to the EA and no work on site will commence until a Permit has been received and all conditions have been met.



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4 Detailed Method statement

4.1 Programme

We envisage that this project will be carried out in February 2021, weather permitting. This allows time for the FRAP determination process and means that works will take place outside of salmonid spawning season.

10 working days have been allocated to the completion of the works.

4.2 Personnel

Aquascience Ltd will have the following Site Personnel:

| | | |
|---------------------------------|---------------------------------|--|
| Project Manager Aquascience | Joe Galton 07904 389317 | Engineering and Management BEng, SMSTS, Slinger Signaller, Excavator and Dumper Certificates, CAT training Chainsaw 201/202/203 |
| Plant Operator Aquascience | Chris Dawson 07464 075207 | Wildlife, Ecology and Conservation BSc, SMSTS, Slinger Signaller, Excavator and Dumper Certificates, CAT training Chainsaw 201/202/203, CSCS, basic ecology training |
| Bridge Carpenter Aquascience | Mark Hutchinson 07802 268415 | SMSTS, Slinger Signaller, Excavator and Dumper Certificates, CAT training Chainsaw 201/202/203, CSCS, basic ecology training |
| Director Aquascience | Pierre Rawlins 07741 459150 | City and Guilds, BSc (Hons) Construction Management SMTS, CPCS Appointed Person (Lifting Operations) Slinger Signaller, Excavator, Dumper and Telehandler Certificates. |

4.3 Mobilisation and site set up.

This project requires and FRAP from the EA which carries an 8-week determination period, mobilisation of site will not commence until after the permit has been received.

This project is expected to take 10 working days, with 2-3 members of staff allocated to its completion.



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When site is mobilised, we will:

- Set up welfare and material storage area on the TLHB in a location agreed with Aquascience, HCC and the relevant landowner.
- Erect Heras fencing on both banks to isolate the bridge and prevent unauthorised access. Position Construction site Health & Safety signage.
- Take delivery of plant required for the works and securely store it in the storage area.

4.4 Method

- From the channel, use sandbags to wedge below the existing wingwalls and plug the gaps left by the scour. These will mostly seal the internal section of the abutment.
- In front of the sandbags, install rock rolls to make a hard revetment in front of the wing walls to protect against future erosion and scour. Rock rolls to be held in place using steel pins. Rock roll stacked height is to be determined by the degree of scour.
- Excavate the infill from between the existing wingwalls using a 1.5t excavator, down to bed level to find hardstanding. Remove all waste materials from site and dispose of appropriately.
- Use 20mm threaded bar and anchor plates to tie the two wingwalls together and prevent differential settlement.
- Use a pump to dewater the internal area of the abutment and plug any remaining gaps in the wingwalls to prevent further water ingress. The water will be discharged onto the non-designated land upstream of the abutment on the TLHB, allowing sediment to filter through the land prior to the water re-entering the channel. Permissions with the relevant landowner/holder prior to this activity and via HCC Project Officers.
- Drill and resin starter bars into the wingwalls and use sandbags and 300 gauge DPM to waterproof the abutment in preparation for the concrete pour.
- Transport readymix 40N from the roadside using a 1t tracked dumper. Fill the abutment to the previous level and leave to cure.
- Once the concrete has cured, cut off the existing bridge handrail and replace with a new key clamp rail, bolted to the existing bridge beams.
- Tidy and demobilise site.

4.4.1 Drawings

Accompanying drawings will be stored in the site file and within the office.

Please refer to drawing 607-FP48-01 for information on the survey and design.

Please refer to drawing 607-FP48-02a for location information.