|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***METHOD STATEMENT NO.*** | | MS01 | | | | |
| ***METHOD STATEMENT TITLE*** | | Pier repair works | | | | |
| ***PROJECT NAME / NUMBER*** | | Inverawe pier - Dawnfresh - 95 | | | | |
| ***LOCATION*** | | Inverawe, Taynuilt | | | | |
| ***START DATE*** | |  | | | | |
| ***DURATION*** | |  | | | | |
| ***WRITTEN BY*** | *Neil Ronald* | | ***JOB TITLE*** | *Project Manager* | ***DATE*** | *25/07/2022* |

|  |  |  |
| --- | --- | --- |
| ***REVISION DETAILS*** | | |
| ***REV NO*** | ***DATE*** | ***DESCRIPTION*** |
|  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***1.0*** | ***SCOPE OF WORKS*** | | | | |
| ***1.1*** | ***Brief Description of Works*** | | | | |
|  | Complete emergency pier repair works | | | | |
| ***1.2*** | ***Briefing Arrangements & Sequence and Method of Work*** | | | | |
|  | * 1. **Briefing Arrangements**       1. All personnel entering the site shall have received a site safety induction from the site supervisor or manager.      2. Before work commencing McLaren of Craig Plant & Contracting Ltd will receive a permit to commence work. The content of the permit and the risk assessment and method statement will be briefed to the working party, who will thereafter sign the attendance sheet as evidence of their briefing. The Permit to Work and the requirements detailed within the method statement and risk assessment shall be strictly adhered to by the working party. Should any of the condition’s detailed within the Permit or the risk assessment and method statement change, the working party should stop work and seek advice from their supervisor.      3. The briefing will be delivered by a responsible and duly authorised representative. At the end of the briefing, the briefer will test the understanding of the recipients by asking a number of open questions. Only when the briefer is satisfied that the arrangements are understood will works commence.      4. A record of the briefing will be maintained for filing.   2. **Sequence and Method of Work**      1. As the site is located within the Dawnfresh compound it will not be necessary to fence off the site. There will be temporary safety fencing installed to segregate Dawnfresh operatives from the construction work areas.      2. A dive team will inspect the pier prior to works commencing, to obtain a full view of works that will be required to fill any voids below water level.      3. After the inspection has been complete, McLaren of Craig Plant & Contracting Ltd will review findings with the dive team and work out what extent of shuttering works, and quantities of concrete will be required.      4. Before any repair works commence, the tide tables should be checked so as we are working at the lower tide levels, this will prevent the need for any plant entering the water.      5. The dive team will then drill starter bars into the edges of any voids. Reinforced weld mesh will then be cut to suit and tied onto the started bars.      6. Shuttering will then be built to suit.      7. Using a 360 excavator to crane shutters, the shutters will then be lowered into the water and will be placed in by the dive team.      8. The shutters will then be fastened to the existing pier using relevant fixings required, leaving a gap above the shutters large enough to pour concrete into.      9. The shutter will then be inspected for any gaps by the dive team, if any are found they are to be filled as required.      10. A funnel/chute will be built on top of the shutters (a letterbox shutter) to ease the pouring of concrete and prevent any spillage.      11. Prior to ordering ready mix concrete the tide tables are to be checked so as the concrete works are complete during low tides.      12. A ready-mix concrete mix design is to be discussed with the concrete supplier so as it is suitable for this particular setting.      13. A final check of the shuttering will be carried out on the day that concrete will be installed by the dive team.      14. Ready mix concrete will be delivered by concrete lorries, the concrete will be placed into a concrete skip attached to the 360 excavator, this will then be placed into the shutter through the chute. The dive team are to assist by checking for any concrete seeping from the edges of the shuttering. A water pump will also be placed at the top of the shutter to pump any contaminated water away and prevent from mixing with the sea water. The contaminated water is to be pumped to a settlement pool. As the concrete is placed into the shutter it is to be vibrated gently.      15. All tools and equipment are to be washed out into the concrete settlement pool after the concrete works are complete.      16. Once the concrete has set, all shuttering will be removed using the 360 excavator as a crane and the dive team to assist removing fixings underwater. The shuttering will then be broken up and removed off site.      17. Once all shuttering is removed, a further inspection is to be complete to check that all voids have been filled with concrete. | | | | |
| ***2.0*** | ***RESOURCES*** | | | | |
| ***2.1*** | ***Personnel*** | | | | |
|  | 1 x Site Manager  1 x Supervisor  2 x Operatives  1 x dive team  All operatives should have the following qualification/ training:   * CSCS * CPCS * Site Specific induction and manual handling training * Relevant diving certificates | | | | |
| ***2.2*** | ***Plant, Equipment and Tools*** | | | | |
|  | * 20T Excavator * Concrete skip * Relevant power tools * Air compressed tools for underwater works | | | | |
| ***2.3*** | ***PPE*** | | | | |
|  | * High Visibility Clothing * Eye Protection specific for the task * Ankle height Safety Boots with steel toecaps * Safety Helmet * General Purpose work Gloves and other gloves specific for the task * Hearing Protection when required for the task * Dust Masks (FFP3) when required for the task * Life jackets * Dive equipment (to be specified in dive teams RAMS) | | | | |
| ***4.O*** | ***SUPPORTING DOCUMENTATION*** | | | | |
|  | Site diary and task briefings to be carried out on a daily basis.  Tide tables  Drawings provided by WRD | | | | |
| ***5.0*** | ***HEALTH, SAFETY AND ENVIRONMENT*** | | | | |
| ***5.1*** | ***Risk Assessments*** | | | | |
|  |  | | | | |
| ***5.2*** | ***Hazardous substances*** | | | | |
|  | *Petrol and Diesel*  *concrete* | | | | |
| ***5.3*** | ***Environmental Issues*** | | | | |
|  | Spill kit available within company vans. In the event of a spillage – spills are to be cleaned up using the spill kit. Used spill kits are to be returned to the Yard and placed in the Special Waste Bin. A replacement spill kit is then to be requested from your Supervisor. Any spill no matter how small should be reported to your Supervisor and to Client immediately.  Ensure refueling takes place in a designated refueling area at a minimum of 20m from any watercourse  Use of concrete within a marine environment, Method statement to be followed to prevent the potential of concrete spillage | | | | |
| ***6.0*** | ***WELFARE & FIRST AID ARRANGEMENTS*** | | | | |
|  |  | | | | |
| ***7.0*** | ***EMERGENCY ARRANGEMENTS*** | | | | |
|  | In the event of any accident/incident the Client must be informed as soon as possible.  All incidents must be reported to McLaren of Craig Plant & Contracting Ltd as soon as possible and via Clients specific information route.  The supervisor will be the main point of contact during any accident/incident.  A first aid kit will be available on the worksite.  **Rescue Plan**   1. Ensure prior to works that there is a working fully charged mobile phone in the event of an incident. 2. Where mobile phone signal is not present, there are to be walkie talkies available to contact the site office who can call emergency services. 3. McLaren will ensure that all operatives are competent for the requirements of an emergency situation.   **EMERGENCY SERVICES DIAL 999** | | | | |
|  | ***EMERGENCY CONTACT LIST*** | | | | |
| ***Position*** | | | ***Name*** | | ***Main Contact Number*** |
|  | | |  | |  |
|  | | |  | |  |
|  | | |  | |  |
|  | | |  | |  |
|  | | |  | |  |
|  | | |  | |  |
|  | ***OPERATIVES SIGNING SHEET*** | | | | |
| ***SIGNATURE*** | | ***PRINT NAME*** | | ***DATE*** | |
|  | |  | |  | |
|  | |  | |  | |
|  | |  | |  | |
|  | |  | |  | |
|  | |  | |  | |