|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **INSPECTION TEST PLAN** | | | | | | | | | | | |
| **Job Number:** | |  | | **Job Name** | | **Whnagarei Odour Control Upgrade** | | **Corresponding Work Instruction:** | | **Whangarei Odour Control Plant Upgrade Sewpercoat spray** | |
| **ITP Rev No:** | |  | | **Specific Structures** | | **Sludge Tanks , High Flow Chamber, Grit Screens Sludge Thickner Tank** | |
| **No:** | **Inspection / Test Point** | **ACTION** (Hold,  Monitor, Witness) | **Detail** | **Frequency / Timing** | **Inspection / Test Metho**  submission, visual inspection, testing, measure, | **Conformance Criteria** | | **Records** | **Initials** | **Responsible Organisation (Main Contractor, Client, Engineers Rep,**  **Subcontractor, Supplier)** | **Date(s)** |
| **Pre-construction** | | | | | | | | | | | |
| 1 | Construction drawings and specifications from Designer(s) | H | Construction drawings and specifications from Client/ Engineer | Pre-construction | Document Review | confirmation in writing | | Drawing Transmittal |  | United Civil |  |
| 2 | Pre-construction meeting | H | Prior to commencing works, a pre-start  meeting to be held with client to confirm | Pre-construction | Document Review | sewage isolation process agreed signed off | | Meeting Minutes/signed-off documents |  | United Civil |  |
| 3 | Pre-works Inspection | W | Contractor to arrange a joint inspection of the relevant areas, within and outside the working areas, with Engineer, Principal and relevant landowners/ occupiers | Pre-construction | Visual Inspection | Confirmation in writing from all parties that the record is a true representation of the inspection | | Marked up Drawing |  | United Civil |  |
| 5 | Site access | H | United Civil to grant site access to Contech | Pre-construction | Document Review | Access Permits. | | Signed-off documents |  | United Civil |
|  |  | H | United Civil to erect a scaffold no more thsn 400mm from the workface | Pre-construction | Visual Inspection | signed off ready to use | | signed off documents |  | United Civil |  |
| 6 | Work instruction signoff | H | Work Instructions produced for works | Pre-construction | Document Review | Staff to sign onto the JSA prior to commencement of work onsite | | Signed-off documents |  | United Civil /Contech |  |
| **Materials and Procurement** | | | | | | | | | | | |
| 8 | Sewpercoat ordered and compliant,  and delivery to be timely | W | Material to meet quality; be the right quantity and delivered on time | Pre-construction | Testing | Cube Strength Results to be supplied | | Lab Strength Testing Report |  | Contech |  |
| 9 | Sewpercoat on site, and correctly stockpiled/Stored | W | Material to be stored on site in a dry area | Pre-construction | Document Review | Material stored in Contech Warehouse until Required on-site, then Stored in Covered Location on-site | | Photos |  | Contech |  |
| **Construction and Installation** | | | | | | | | | | | |
| 10 | Concrete surface preparation | H | Concrete surface preparation with hydroblasting to have an adequate profile roughness. | Before start spraying | Visual inspection | The concrete surface must be prepared to have a minimum roughness equivalent to CSP 5 (ICRI) | | Photos/Videos/ Record sheet |  | Contech |  |
| 11 | Sewpercoat lining thickness | M | Sewpercoatlining thickness | Continuous Monitoring | Measurement | Thickness tests using caliper depth measuring blade, average thickness of 25 mm, no measurement less than 25 mm, above substrate (concrete surface) | | Photos/Videos/ Record sheet |  | Contech |  |
| 13 | Pull-off (adhesion) testing | M | In situ Pull-off tests according to the  Standard Test Method for Tensile Strength of Concrete Surfaces and the Bond Strength or Tensile Strength of Concrete Repair and Overlay Materials by Direct Tension (Pull-off Method) - | 2 tests in each structure | Testing | Pull-off test to achieve a minimum of 1 MPa | | QA Sheet, photos |  | Contech |  |
| 14 | Post Sewpercoat lining Survey | H | video survey of the Structure to be undertaken post application of sewpercoat | After supepercoat application on each chamber | Visual inspection | Survey complete | | Photos/Videos |  | Contech |  |
| **Handover, Commissioning and Completion** | | | | | | | | | | | |
| 15 | Close out QA/QC | M | Ensure all QA/QC is complete are closed out and recorded | After completion | Review | QA/QC Documents delivered, ITP Signed and Submitted | | Signed-off ITP, technical reports |  | United Civil |  |
| **Comments and Non-conformances** | | | | | | | | | | | |
|  |  | | | | | | | | | | |
|  |  | | | | | | | | | | |
|  |  | | | | | | | | | | |
|  |  | | | | | | | | | | |
|  |  | | | | | | | | | | |
|  |  | | | | | | | | | | |
|  |  | | | | | | | | | | |
| **Reference Documentation:** | | | | | | | | | | | |
| **Acceptance of ITP Authorised Signature and Initials Register** | | | | | | | | | | | |
|  | | Date | Name | Signature |  | Name | Initials | Organisation | | Signature | Date of Final Sign Off |
| Author | |  |  |  | **Tony Boustred** | **TB** | **BBR CONTECH** | |  |  |
| Project Manager | |  |  |  | **Peter Hughs** |  | **United Civil** | |  |  |
| Client | |  |  |  |  |  |  | |  |  |
|  | | | | | | | | | | | |