ITP Inspection and Test Plan

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| **Project Title: WDC Fluoridation** | **Project No: CON23011 (internal #J2028)** | | | **Procedure No:** |
| **Description of Activity: Civil concrete works** | | | **ITP No.: 013** | |
| **Location of Inspection / Testing:** | | **ITP Approved by (BCL) Name:** | | |
| **ITP Prepared by: Stephen Abercrombie Date: 01/11/24** | | **ITP Approved by (Client) Name: WDC Date:** | | |

| **ID No** | **Sequence of Activity** | **Type of inspect / Test and Frequency** | **Acceptance Criteria** | **Inspection Responsibility** | | | | **Verification Records of Inspection(s) / Test(s)** |
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| **BCL** |  | **Client** | **Date** |
| **1.0** | **Documentation** | | | | | | | |
| 1.1 | Construction Drawings | All drawings are for construction and latest revision. | Latest IFC Drawings | I |  | S |  | Drawing Register  RFIs |
| 1.2 | Concrete mix design | Submitted to Beca for approval | Approved RFI | H |  | A |  | RFI |
| **2.0** | **Excavation** | | | | | | | |
| 2.1 | Subgrade inspection | Scala testing to confirm subgrade is of sufficient strength  Witness by engineer  Minimum of 2 tests per bund pour | Minimum of 4 blows per 100mm | H |  | A |  | Scala Test Results |
| **3.0** | **Post Excavation** | | | | | | | |
| 3.1 | >100mm compacted hard fill under bund (GAP40) | Clegg hammer testing, 5x5 grid, | Clegg CIV>25 | T |  | R |  | Clegg results |
| **4.0** | **Concrete works** | | | | | | | |
| 4.1 | Reinforcing (material) | Review documentation for each pour | Reinforcing to be Grade 500E to ASS/NZS4671 | D |  | W |  | Mill certificates  Detail sheet |
| 4.2 | Sump Construction | Reinforcing check, dimension check, Formwork check | As per IFC drawings | D |  | W |  | Concrete pour record |
| 4.3 | Reinforcing install | Measure to check cover, bar size and arrangement, lap length and type.  Complete prior to pouring concrete | Reinforcing matches IFC drawings, any deviations recorded and acceptance agreed with engineer prior to pour | D |  | W |  | Concrete pour record  Photos |
| 4.4 | Reinforcing install | Starter bars for nibs | Matches IFC drawing | D |  | W |  | Concrete pour record  Photos |
| 4.5 | Concrete pour | Embedded items located in slab   * Ducting * Pits | Matches IFC drawings | D |  | W |  | Concrete pour record  photos |
| 4.6 | Concrete pour | Level check, formwork check, cover check.  Inspections prior to every pour | Matches IFC drawing dimensions and notes | D |  | W |  | Concrete pour record |
| 4.7 | Pour inspection/Approval to pour | Pre pour inspection by Beca Engineer (hold Point) | Approval from Engineer to pour | H |  | A |  |  |
| 4.8 | Concrete strength | Test certificate  7 and 2no 28day tests required for each pour day or per 70m3 | 28 day compressive strength >40mPa | D |  | R |  | Test certificate |
| **6.0** | **As-builts** | | | | | | | |
| 6.1 | Redline Drawings | Redline Civil Drawings Sets post construction | N/A | D |  | R |  | As built drawings |
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| **Revision Status of ITP** | | | | | **Inspection Responsibility Legend** | | | | | | | **Records Legend** | |
| **Rev. No:**  Rev. (ID No’s)  Date:  Approved by: | **Revision 1:** | **Revision 2:** | | **Revision 3:** | A:  D:  I:  S.Con: | | Approve  Document  Inspection  Subcontractor | H:  R:  S: | Hold Point  Review  Submit | T:  V:  W:  Cons: | Test  Visual  Witness  Consultant | ITR: Inspection and Test Report  HPR: Hold Point Release form | |
| Signature Verification Record | | |
| **Sign** | | | **Name** | | | **Position / Title** | | | | | | | **Company** | |
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