ITP Inspection and Test Plan Template

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| **Project Title: WDC Fluoridation – Ruddells WTP** | **Project No: J2028 (CON23011)** | | **Procedure No:** |
| **Description of Activity: Structural Steel** | | | **ITP No.: 003** |
| **Location of Inspection / Testing: Millbridge Engineering/Site** | | **ITP Approved by (Bellcon) Name: Stephen A Date: 08/02/2024** | |
| **ITP Prepared by Name: William Carlson Date: 30/01/2024** | | **ITP Approved by (Client) Name: Whangarei District Council 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** | | | | | | | |
| 1a | Construction Drawings | All drawings are for construction and latest revision. | IFC Drawings | I |  | S |  | Drawing Register |
| 1b | Shop Drawings | All drawings are for construction and latest revision. (hold Point) | AISC Detailing for Steel Construction | H |  | A |  | Drawing Register |
| **2.0** | **Manufacturing** | | | | | | | |
| 2a | Structural Steel | Confirm structural steel grade is correct | Sec. 19  4.15.1.1  *Table 1. Materials* | D |  | R |  | Manufacturers Mill Certificates |
| 2b | Nuts, Bolts, & Washers | Confirm nuts, bolt and washer materials are hot dip galvanised  Approved stainless steel components must be Grade A4 (Austenitic 316) strength 70 | AS 1214  IFC Shop Drawings Bill of Materials | D |  | R |  | Manufacturers Mill Certificates |
| **3.0** | **Delivery, Storage & Handling** | | | | | | | |
| 3a | Delivery | Check structural steel is undamaged; not misshapen, no surface damage, free from contaminants etc. on delivery | NZS 3404 | D |  | R |  | Delivery Dockets  Photos |
| **4.0** | **Welding** | | | | | | | |
| 4a | Nominate Inspector | Employ approved independent Welding Inspector.  Submit two weeks before fabrication | CBIP | S |  | A |  | N/A |
| 4b | Welder Qualifications | Ensure welders are competent and accredited to carry out welding activity prior to construction. | ASME IX | I |  | I |  | Welder Qualification Records |
| 4c | Weld Procedure | Ensure procedure is Code compliant to weld specification of applicable work being done  All welds to be category GP unless category SP nominated | ASME IX | A |  | I |  | Welding Procedure |
| 4d | Weld Inspection (Visual) | The extent of Non-Destructive examination listed in *Sec. 19 4.15.2.4* | ASME IX | I |  | I |  | Inspector report |
| **5.0** | **Corrosion Protection** | | | | | | | |
| 5a | Nominate Inspector | Employ approved independent Painting Inspector | CBIP | D |  | R |  | N/A |
| 5b | Preparation | Thoroughly clean all surfaces of oil and grease with turpentine, not kerosene.  Visual Inspection | Sa 21/2 in S1S 055900 | D |  | R |  | Galvanising QA Package |
| 5c | Galvanising | Apply Zinc coating by hot dip process to give coating weight of not less than 600g/m2 | AS/NZS 4680 | D |  | R |  | Galvanising QA Package |
| 5d | Galvanising Inspection | Inspect for defects, misses, etc.  Dry film thickness measurements and demonstration that film build up has been achieved | AS3894 | D |  | R |  | Galvanising QA Package  Painting Inspector Report |
| **6.0** | **Grouting** | | | | | | | |
| 6a | Grouting Mix | 50MPa grout to be used, mixing as per the manufacturer spec | NZS 3404 | D |  | R |  | Delivery docket |
| **7.0** | **As-builts** | | | | | | | |
| 7a | Redline Drawings | Redline Structural Drawings Sets post construction | N/A | D |  | R |  | As-Builts |

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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  Random  Submit | T:  V:  W:  Cons: | Test  Visual  Witness  Consultant | ITR: Inspection and Test Report  HPR: Hold Point Release form |

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| Signature Verification Record |
| **Name** | **Signature** | **Position / Title** | **Company** |
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