Inspection and Test Plan - Stainless Steel Pipework Installation - Pump 2

ITP Reference Number 561482-ITP-006.2

SECTION 1 – GENERAL DETAILS										
Project Name:	DCC11014 Water Pump Station Renewals - SILVERSTREAM			**Inspection Key** *Use in sections 3, 4 and*		**Responsibilities** *Use in sections 3, 4 and 5.*		**Name**	**Signature/ Initial**
Project Number:	561482			**A**	Action	**Role Key**			
Customer:	Dunedin City Council			**B**	Report by Breach	**CM**	Construction Manager	Stephen Vorgers	
Contract Number:	DCC11014-WPS002			**C**	Check	**CR**	Cust. Representative	Joff Riley / Mark Todd	
Area/ Sub-System:	Pipework Installation - Silverstream	Lot ID Number:	N/A	**D**	Dimension Inspection	**IP**	Inspection Personnel	Aaron Sutherland	
				E	Examine	**MC**	Material Controller		
ITP Number:	561482-ITP-006.2	**Version**:	Draft	**H**	Hold Point	**OP**	Operations Manager		
ITP Description:	Pipework Installation Pump 2 - Inspection Test Plan			**I**	Inspection	**PM**	Project Manager	Matt Paterson	
Discipline:	Stainless Steel Pipework - Installation			**M**	Monitor on Random Basis	**PS**	Project Supervisor		
Specification:	C11014 Water Pump Station Renewals Specification 12581908			**O**	Operation	**QE**	Quality Engineer		
				R	Review	**QM**	QA Manager		
Drawings:	Construction Issue Drawings as issued by GHD - Silverstream Pump Station Project Ref: 12581908-GHD-PS-SS-DRG-GN Drawings: G0001, M0001 to M0004 & P0001			**S**	Subcontractor	**SP**	Supervisor	Bruce Allan	
				V	Visual Verification	**ST**	Superintendent		
Prepared By: *(Name)*	Matt Paterson	Date:	10/12/2024	**W**	Witness Point	**SV**	Surveyor		
Quality Specified:	None - As per Specification requirements					**WS**	Welding Supervisor	Matt York	

SECTION 2 – SIGNATURES – CLOSE-OUT & APPROVAL						
ITP Close-Out by Downer	Name:	Bruce Allan	Signature:		Date:	
Downer Approval	Name:	Matt Paterson/Stephen Vorgers	Signature:		Date:	
Customer Approval	Name:	Joff Riley / Bruce Buxton	Signature:		Date:	

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SECTION 3 – RECEIVING INSPECTIONS *Insert additional or delete unused rows as required. Include reference to specification.*								
Item No.	**Activity/ Task Description**	**Inspection Point: Quality Control Activity**	**Acceptance Criteria**	**Verifying Document**	**Frequency**	**Inspection Type** *(Visual, other)*	**Inspection**	
							Key	**By** *(Role Key)*
3.1	Stainless Steel Pipe components	Obtain the mill certificates for the materials used - 316L Stainless Steel	Documents from the supplier/Manufacturer	Mill Certificates & Welding certificates	Once	Documentation	C	IP
3.2	Stainless Steel Pipe components	Take delivery of components from Supplier. Verify all components have been delivered	Quantities as shown on the drawings	Drawing M0001 Drawing M0002 Drawing M0003 Drawing M0004	Once	Visual	C	IP
3.3	Stainless Steel Pipe components	Take delivery of components from Supplier. Verify all components have been manufactured to the correct dimensions	Dimensions & orientation as shown on the drawings	Drawing M0001 Drawing M0002 Drawing M0003 Drawing M0004	Once	Visual Dimension Inspection	D	IP
3.4	Valves & Ancillaries	Check and verify that the Manufacturer & Type is approved for use by the client	Must be on the Approved Products list	Specification - Approved Materials list	Once	Visual	C	IP
3.5	Dress Sets (gaskets & fasteners)	Check and verify that the dress sets are compatible with the flanges and the gasket material is correct. Check correct quantities/sizes/flange patterns etc	Must be on the Approved Products list	Specification - Approved Materials list	Once	Visual	C	IP

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SECTION 4 – IN-PROCESS INSPECTIONS *Insert additional or delete unused rows as required. Include reference to specification.*								
Item No.	**Activity/ Task Description**	**Inspection Point: Quality Control Activity**	**Acceptance Criteria**	**Verifying Document**	**Frequency**	**Inspection Type** *(Visual, other)*	**Inspection**	
							Key	**By** *(Role Key)*
4.1	Fasten Wet Well side/pick-up to spool (cast in wall) Item # 1	Install gasket, bolts & nuts and tighten. Torque fasteners	Use diametrically opposed touque sequence	As per WSA-109 Australiann Water Standards Guidelines - 80N.m	Each flange	Record & attach to ITP	Inspection	IP
4.2	Fasten Dry Well side from spool (cast in wall) Item # 2	Install gasket, bolts & nuts and tighten. Torque fasteners to relevant water standards	Use diametrically opposed touque sequence	As per WSA-109 Australiann Water Standards Guidelines - 80N.m	Each Flange	Record & attach to ITP	Inspection	IP
4.3	Isolation Valve 150mm Item # 3 (suction side)	Install gasket, bolts & nuts and tighten. Torque fasteners to relevant water standards	Use diametrically opposed touque sequence	As per WSA-109 Australiann Water Standards Guidelines - 80N.m	Each Side of Valve	Record & attach to ITP	Inspection	IP
4.4	150mm Dismantling joint (suction side) Item#4	Torque fasteners to relevant water standards	Use diametrically opposed touque sequence and manufactruers instructions	As per WSA-109 Australiann Water Standards Guidelines - 80N.m	Once	Record & attach to ITP	Inspection	IP
4.5	150mm Flange Adaptor Spool. Item # 5	Install gasket, bolts & nuts and tighten. Torque fasteners to relevant water standards	Use diametrically opposed touque sequence	As per WSA-109 Australiann Water Standards Guidelines - 80N.m	Once	Record & attach to ITP	Inspection	IP
4.6	100mm to150mm Sweeping Flange Adaptor Spool. Item # 6	Install gasket, bolts & nuts and tighten. Torque fasteners to relevant water standards	Use diametrically opposed touque sequence	As per WSA-109 Australiann Water Standards Guidelines - 80N.m	Once	Record & attach to ITP	Inspection	IP
4.7	150mm swing check valve. Item # 7	Install gasket, bolts & nuts and tighten. Torque fasteners to relevant water standards	Use diametrically opposed touque sequence	As per WSA-109 Australiann Water Standards Guidelines - 80N.m	Each Side of Valve	Record & attach to ITP	Inspection	IP

4.8	150mm Sweeping Spool (discharge). Item # 8	Install gasket, bolts & nuts and tighten. Torque fasteners to relevant water standards	Use diametrically opposed touque sequence	As per WSA-109 Australiann Water Standards Guidelines - 80N.m	Once	Record & attach to ITP	Inspection	IP
4.9	150mm Dismantling joint (discharge side) Item#4	Torque fasteners to relevant water standards	Use diametrically opposed touque sequence and manufactruers instructions	As per WSA-109 Australiann Water Standards Guidelines - 80N.m	Once	Record & attach to ITP	Inspection	IP
4.10	Isolation Valve 150mm Item # 3 (discharge side)	Install gasket, bolts & nuts and tighten. Torque fasteners to relevant water standards	Use diametrically opposed touque sequence	As per WSA-109 Australiann Water Standards Guidelines - 80N.m	Each Side of Valve	Record & attach to ITP	Inspection	IP
4.11	Pipework bracketing installed and is secure.	At completion of pipework	Pipework complete and installed. Adjustable brackets	As indicated on the drawings	once	Visual	I	IP

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SECTION 5 – FINAL INSPECTION AND HANDOVER *Insert additional or delete unused rows as required. Include reference to specification.*								
Item No.	**Activity/ Task Description**	**Inspection Point: Quality Control Activity**	**Acceptance Criteria**	**Verifying Document**	**Frequency**	**Inspection Type** *(Visual, other)*	**Inspection**	
							Key	**By** *(Role Key)*
5.1	Final inspection to installed pipework	At completion of pipework	Flanges are straight and bolts tightened all threads sealed and leak free	As per drawings	once	Visual	I	IP
5.2	Instrumentation. e.g. Pressure transducers and sensors are fitted correctly - No Damage	At completion of pipework	Pipework is installed and correct fittings installed to accept the instrumentation	As per drawing schematics	once	Visual	I	IP
5.3	Pipework bracketing installed and is secure.	At completion of pipework	Pipework complete and installed	As per drawings	once	Visual	I	IP

SECTION 6 – COMMENTS					
	Customer Release Granted:	☐ Yes	☐ No	Date:	
	Certificate Number:				