


SECTION 1 – GENERAL DETAILS							
Project Name:	DCC11014 Water Pump Station Renewals - SILVERSTREAM			Inspection Key <i>Use in sections 3, 4 and 5.</i>	Responsibilities <i>Use in sections 3, 4 and 5.</i>		
Project Number:	561482			A Action	Role Key	Name	Signature/ Initial
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:	Pump 2 Operational test/check	Lot ID Number:	N/A	D Dimension Inspection	IP Inspection Personnel	Bruce Allan	
				E Examine	MC Material Controller		
ITP Number:	561482-ITP-009.2	Version:	DRAFT	H Hold Point	OP Operations Manager		
ITP Description:	To test and check the operation of Pump 2 and associated valves/pipework			I Inspection	PM Project Manager	Matt Paterson	
Discipline:	Operational testing			M Monitor on Random Basis	PS Project Supervisor	Aaron Sutherland	
Specification:	C11014 Water Pump Station Renewals Specification 12581908			O Operation	QE Quality Engineer	Bruce Buxton	
				R Review	QM QA Manager		
Drawings:	Construction Issue Drawings as issued by GHD - Silverstream Pump Station Project Ref: 12581908-GHD-PS-MG-DRG-GN Drawings: G0001, M0001 through M0004, & P0001			S Subcontractor	SP Supervisor	Bruce Allan	
				V Visual Verification	ST Superintendent		
Prepared By: <i>(Name)</i>	Matt Paterson	Date:	10/12/2024	W Witness Point	SV Surveyor		
Quality Specified:	As Per Specification - Section 4.6 Acceptance Testing, Disinfection & Commissioning				WS Welding Supervisor		
SECTION 2 – SIGNATURES – CLOSE-OUT & APPROVAL							
ITP Close-Out by Downer	Name:	Bruce Allan	Signature:		Date:		
Downer Approval	Name:	Matt Paterson/Stephen Vorgers	Signature:	 Matt Paterson	Date:		
Customer Approval	Name:	Joff Riley / Bruce Buxton	Signature:		Date:		

SECTION 3 – RECEIVING INSPECTIONS <i>Insert additional or delete unused rows as required. Include reference to specification.</i>								
Item No.	Activity/ Task Description	Inspection Point: Quality Control Activity	Acceptance Criteria	Verifying Document	Frequency	Inspection Type (<i>Visual, other</i>)	Inspection	
							Key	By (<i>Role Key</i>)
3.1	Fill Wet Well	Pressure testing between suction and discharge isolation valves	Completion of 561482-ITP-008	This ITP	once	Visual	Inspection	IP

SECTION 4 – IN-PROCESS INSPECTIONS <i>Insert additional or delete unused rows as required. Include reference to specification.</i>								
Item No.	Activity/ Task Description	Inspection Point: Quality Control Activity	Acceptance Criteria	Verifying Document	Frequency	Inspection Type <i>(Visual, other)</i>	Inspection	
							Key	By <i>(Role Key)</i>
4.1	Filling of pipeline	Remove Entrained air	Bleed until water visible	None	once	Visual	Inspection	IP
4.2	Visual Check over of Pump 2 and motor	Look for any visible leaking	All pipework connections tight All Cable & Terminations secure	This ITP	once	Visual	Inspection	IP
4.3	Bump Start Pump 2	Check for correct pump rotation direction	Rotation direction is correct	Pump build sheet literature	once	Visual	Inspection	IP
4.4	Pressure testing between suction and discharge isolation valves - Pump 2	VSD Energised, water in pump pipelines	No visible leaking as per Item 4.2	To meet Specification requirements and not to exceed pump manufacturers maximum pressure (Pump flanges 16Bar, Seal max pressure 30Bar)	once	Visual	Inspection	IP

WATER MAIN PRESSURE TEST RECORD

CONTRACT NUMBER: _____

PIPELINE DETAILS

PIPE LOCATION: _____
 PIPE SIZE: DN
 LENGTH: m
 MATERIAL: (tick) ☐ PVC-U ☐ PVC-M ☐ PE 80B ☐ PE100 ☐ OTHER
 SERVICES? (tick) ☐ YES ☐ NO
 IF SO, MATERIAL: (tick) ☐ PE 80B ☐ PVC-U ☐ OTHER _____

TEST INFORMATION

DATE OF TEST: / /
 TIME STARTED: : AM/PM TIME FINISHED: : AM/PM
 SYSTEM TEST PRESSURE: kPa

PE	PVC
ΔV <input type="text"/> L Maximum allowable water loss: PE80B $\Delta V_{max} = \frac{L \times D \times D \times D \times \Delta p}{645 \times t}$ = <input type="text"/> = <input type="text"/> PE100 $\Delta V_{max} = \frac{L \times D \times D \times D \times \Delta p}{870 \times t}$ = <input type="text"/> = <input type="text"/> Is ΔV less than ΔV_{max} ? YES/NO	Measured volume of make-up water: <input type="text"/> L Maximum allowable volume of make-up water: $\Delta V_{max} = 0.014 \times L \times D \times H$ = <input type="text"/> L = <input type="text"/> L Is the measured volume less than the maximum allowable? <input type="checkbox"/> YES <input type="checkbox"/> NO

MANUAL RECORD

TIME	PRESSURE	TIME	PRESSURE	TIME	PRESSURE

CERTIFIED

SIGNED: _____ WITNESS: _____
NAME: _____ NAME: _____

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 <i>(Visual, other)</i>	Inspection	
							Key	By <i>(Role Key)</i>
5.1	Pump 2 rotation direction	Pump rotation direction as per manufacturers technical information	Pump rotation direction is correct and matched the technical information	This ITP	Once	Record on ITP	Inspection	IP
5.2	Pump 2 pressure test pass	Record Gauge pressure	Pass - no pressure loss or visible weeping	This ITP & Specified Pressure testing document	Once	Visual / Photo	Inspection	IP

SECTION 6 – COMMENTS

	Customer Release Granted:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Date:	
	Certificate Number:				