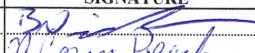
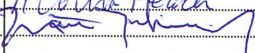

 KITNUNA KITNUNA PROJECTS INC.	PRESSURE PIPING TEST REPORT (CONSTRUCTION)		Project No. Ct-09-3009		Subd.	Subject	Sequential	Rev.			
	Client: GOVERNMENT OF NUNAVUT					Date SEPTEMBER 21, 2011		Page 1 of 1			
	Project Name & Location: TALOYOAK WATER SYSTEM UPGRADES					Report No. 1					
	Contractor: KITNUNA PROJECTS INC.					DISTRIBUTION (NAME PLUS DISCIPLINE OR COMPANY)					
P.O. No.:		P.O. Title:		Plant Area / Bldg. No.: Taloyoak Water Systems		Specification 33 55 90 3.8 Testing		Tag / Part / System: Potable water intake lines			
Drawing: 105, 107, 108		Materials / Equipment Description: 100mm DR17 HDPE / Baker hydrostatic pump, test flanges, pressure gauge gauge certification of calibration # 92640 – July 14, 2011 (copy attached)		From: KITNUNA PROJECTS		To: DILLON CONSULTING		Copies to: CGS – CAMBRIDGE BAY			
Line No.: 1		ISO No.:		Code:		Test					
<input checked="" type="checkbox"/> Hydrostatic				<input type="checkbox"/> Pneumatic							
1. REQUIRED SPECIFICATIONS											
SYSTEM		CALCULATION		OPERATION		TEST PRESSURE		CLASS			
Pressure (kPa)						860		Fluid			
Temperature (°C)								Fluid cat			
2. INSPECTION RECORDS											
PIPES MATERIAL AND CLASS		DIA		LENGTH		NUMBER OF JOINTS			SUPPORTS		
						FLANGES	WELDED	THREA	TYPE	DISTANCE C/C	
DR17 HDPE		100mm		228.6m		2		18		N/A	
3. TEST RECORDS											
Test medium: WATER						Temperature: 5 °C					
Pressure readings and elapsed time		Spec section 33 55 90		3.8.6.1		320 kPa		14:00		Hours	
				3.8.6.1		680 kPa		15:00		Hours	
				3.8.6.1		900 kPa		16:50		Hours	
				3.8.6.2		900 kPa		17:30		Hours	
				3.8.6.3		880 kPa		18:00		Hours	
				3.8.6.4		860 kPa		18:30		Hours	
				3.8.6.4		840 kPa		19:00		Hours	
				3.8.6.4		825 kPa		19:30		Hours	
				3.8.6.5		820 kPa		20:00		Hours	
Stress relief after welding: _____											
<input type="checkbox"/> RT										<input type="checkbox"/> UT	
<input type="checkbox"/> MT										<input type="checkbox"/> HB	
Declaration of installation to the legal authority: _____											
4. FINAL RESULTS											
<input checked="" type="checkbox"/> Accepted										<input type="checkbox"/> Rejected	
Comments: _____											
Remarks: Hydrostatic test was conducted in accordance with the procedures outlined in the GN Water System Upgrades, Taloyoak, NU Dillon project # 07-8107 HDPE Piping Systems specifications section 33 55 90 3.8 Testing. The test was determined to be acceptable when at the end of the 3 hour test period, the amount of make-up water required to be added to return the pipe to the test pressure of 900 kPa was 2.7 liters at 5°C. The calculation for the maximum allowable make-up water was: 5 (L / 100m of pipe) x 2.286 (228.6 m of 100mm DR17 HDPE) = 11.43 liters x correction factor of .28 = 3.2 liters at 4°C. Gary Strong to approve the correction factor used as it was below the value of the 6°C limit tabulated in the specifications (3.8.6.6).											
TITLE		NAME		SIGNATURE		DATE					
Tested by: Fusion Tech / Plumber		Brandon Niceforo				Sept 21, 2011					
Inspected by: Dillon Project Officer		Corina Peach				Sept 21, 2011					
Recorded by: Kitnuna Superintendent		Matt Zukowsky				Sept 21, 2011					
Approved by:											

1-10-00-00 November 2001 Pressure

JARON WOLFF PROCESS CONTROLS LTD.
9535 - 42ND AVENUE, EDMONTON, ALBERTA, T6E 5R2


CERTIFICATE # 92640

FOR: MDI INDUSTRIAL SALES INC.
9868 -33 AVENUE, EDMONTON, ALBERTA, T6N 1C6

ORDER NO	PO 019801	AMBIENT TEMPERATURE	20 C
SERIAL NUMBER	JW110714-1	DEADWEIGHT	SN# 1180
DIAL SIZE	4" WIKA	TEST MEDIUM	OIL
PRESSURE RANGE	0 - 300 PSI	MAXIMUM ERROR	- 2 PSI
SUB DIVISIONS	50 PSI	DATE:	JULY 14 - 2011
CONNECTION	1/2" NPT	LOCATION TESTED:	9535 - 42 AVE
INSPECTOR	GEORG J.P. WOWK	EDMONTON, ALBERTA,	T6E 5R2

THIS GAUGE IS CERTIFIED TO MEET AND/OR EXCEED MANUFACTURER'S SPECIFICATIONS, AS OUTLINED IN CUSTOMER STANDARD # 038, DOCUMENT CS-038-1 (1% ACCURACY)

<u>TESTED GAUGE</u>		<u>DEADWEIGHT</u>		<u>UPSCALE ERROR</u>	
0		0		0	
75	PSI	77	PSI	- 2	PSI
150	PSI	152	PSI	- 2	PSI
225	PSI	227	PSI	- 2	PSI
300	PSI	302	PSI	- 2	PSI

Technician:  Dustin Petersen

Q.C. Manager:  Georg J.P. Wowk

Invoice PCL-015324/lg

**ALL TEST EQUIPMENT IS TRACEABLE TO N.I.S.T. STANDARDS
CUSTOMER STANDARD DOCUMENT #CS-038