

Project No: 79538
Project Name: City of Winnipeg Water Treatment Program
Document Title: Vendor List

Client: City of Winnipeg
Doc No: Appendix A
Rev: F



Vendor List for Instrumentation and Control Devices

Earth Tech Inc
850 Pembina Highway
Winnipeg
Manitoba
R3M 2M7
Tel: 204 477-5381
Fax: 204 284-2040

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AMENDMENT RECORD

Issue	Date	Author	Checked	Approved	Amendment Details
A	7 TH April 2005	N TOULSON			
B	May 11, 2005	S Tormey			Added Magnetic Level Indication. Added Magnetrol for Radar Level (Guided wave). Modified PLC's to Modicon Unity
C	Nov. 2, 2005	S Tormey			Added Krohne Magnetic Flow meters as per instructions from Vaughn Martin (City of Winnipeg)
D	Nov. 14, 2005	N TOULSON			Added Hach Water Hardness Monitor
E	Feb. 25 2006	N TOULSON			Added Differential Pressure Flowmeter, Compact Inline Flowmeter, Ammonia Analyser, Free Chlorine Analyzer, Total Chlorine Analyzer Added Chemtrac Particle Counter
F	March 14, 2006	S Tormey			Revised Column Titles

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1 Introduction

The purpose of this document is to compile a list of acceptable suppliers and manufacturers for the instrumentation and control equipment used as part of the City of Winnipeg's Water Treatment Program.

Description Of Equipment	Acceptable Manufacturer No.1	Acceptable Manufacturer No.2	Acceptable Manufacturer No.3	Acceptable Manufacturer No.4
Power Supplies, Conditioning, Suppression etc.				
DC Power supplies for instrumentation power	Wiedmuller	Sola Hevi Duty		
Transient Voltage Surge Suppression (TVSS)	Sola Hevi Duty STV100K	Leviton	Square D	Cutler Hammer
Power conditioning	Oneac			
UPS	Powerware	APC		
Flow Measuring and Monitoring				
Magnetic Flow Meters	Rosemount 8700	ABB Magmaster	Krohne	Fischer and Porter
Coreolis Flow meter				
Thermal Flowswitch	Ifm	Weber		
Thermal Mass Flowmeter	ABB	Brooks		
Variable Area Flowmeter	Omega	Kobold		
Differential Pressure Flowmeter	McCrometer			
Compact Inline Flowmeter	Weber			
Pressure Measurement and Monitoring				
Absolute Pressure Indicator Transmitter	Rosemount model 3051	ABB	Foxboro	
Differential Pressure Indicator Transmitter with integral manifold	Rosemount model 3051	ABB	Foxboro	

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Pressure Switches (electronic type)	Ifm	United Electric		
Pressure Switches (conventional type)	Ashcroft	United Electric	Barksdale	
Pressure Gauges	Ashcroft	H.O. Trerice	Budenberg	
3 Valve Manifolds	Anderson Greenwood			
Level Measurement and Monitoring				
Ultrasonic Level Indicator Transmitter	Siemens Multiranger 100/200	Magnetrol	Endress & Hauser	
Radar Type Level Indicator Transmitter	Endress & Hauser	Siemens	Magnetrol	
Conductivity Level Switch	Endress & Hauser			
Vibration type level switch	Endress & Hauser			
Bypass Level Indicator	Krohne	Magnetrol		
Magnetic Level Indication	Magnetrol (Orion)	K-Tek KM26		
Float Switch	Flygt	Consolidated Electric	Warwick	Magnetrol
Sludge Blanket Level	Partech	Siemens		
Capacitance Level Switch	Siemens	Endress & Hauser		
Admittance Level Switch	Magnetrol	Bestobell		
Temperature Measurement and Monitoring				
Temperature Transmitter (RTD)	Rosemount	ABB	Foxboro	
Temperature Switch	Ifm			

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Analytical Instrumentation				
Ph/ Temp	Rosemount	Endress & Hauser	ABB	Foxboro 870
Turbidity	Hach	Rosemount	Endress & Hauser	GLI
Free Chlorine Analyzer	Wallace & Tiernan	Rosemount	Endress & Hauser	Hach
Total Chlorine Analyzer	Wallace & Tiernan	Rosemount	Endress & Hauser	Hach
Ozone Analyzer	Crowcon			
Dew/Moisture Measurement	Veronics			
Particle Counter Analyzer	Hach	Chemtrac		
Suspended Solids Analyzer	Hach			
Ammonia Analyzer	Hach	Waltron	ATi	
Water Hardness Monitor	Hach			
Valve Control				
Electric Actuators	Limitorque	Rotork		
Solenoid Valves	Asco Redhat			
I/P Converters	Omega	Moore		
Relays, Barriers etc				

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Plug in Relays	Omron	Idec	Potter& Brumfield	
Plug in Timers	Omron	Idec	Potter& Brumfield	
Analog I/S Barriers	MTL	Stahl	Peperl & Fuchs	
Digital Barriers	MTL	Stahl	Peperl & Fuchs	
I/S Relays	Gems	Warwick		
Signal Converters	Moore	Pheonix	Weidmuller	
Miscellaneous Items				
PLC'S	Modicon Unity			
Power Meters	PML			
Control Devices (pushbuttons, lamps etc.)	Allen Bradley 800 series	Cutler Hammer Type T		
Panel Instruments (analog indicators etc)	Crompton Instruments	Simpson	Newport	
Gas Detection Systems	Draeger	MSA	Crowcon	
Variable Frequency Drives				
LV Drives	ABB			
MV Drives	ABB			

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Description Of Equipment	Acceptable Manufacturer No.1	Acceptable Manufacturer No.2	Acceptable Manufacturer No.3	Acceptable Manufacturer No.4