

# Groundwater Sampling and Monitoring



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Supplying Testing & Monitoring Instruments Since 1946

For over seventy years, Hoskin Scientific has been a supplier of testing and monitoring instrumentation to the Canadian market. With offices in Vancouver, Oakville, and Montréal our customers are able to receive local sales and technical support in our three major departments.

Our Environmental Department provides solutions for monitoring and sampling biological and chemical parameters in the environment. Our team of environmental sales representatives and diverse product range guarantee that you will find the right products for your application. Specific areas include: water quality, water quantity, soil moisture, plant science, weather stations, indoor air quality, aquatic sampling, and oceanography.

Our Materials Testing Department offers testing equipment for soil, asphalt, petroleum, concrete and cement. Our qualified sales associates focus on providing a sophisticated range of testing equipment complying with the various test methods, ensuring that accurate and consistent test results are always obtained.

Our Instrumentation Department focuses on a wide range of products including optical camera systems, transducers and transmitters, data acquisitions and loggers, signal conditioners and indicators, automation sensors and measurement systems. We have technical sales associates that are trained in various areas and willing to help you with your instrumentation requirements.

## Rentals

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We offer high quality, proven equipment that will provide the user with valuable data as well as numerous ways of retrieving, filtering and viewing that data. We carry a wide range of instrumentation, including: water quality, portable gas monitors, soil sampling instruments and more.

Rental Equipment:

- Single and multi-parameter instruments that can be setup for spot checks or extended deployment/data logging
- Water sampling instruments
- Water velocity and stream profiling instruments
- Soil sampling instruments
- Soil vapour sampling instruments
- Portable gas monitoring instruments

Customer satisfaction is our goal and we make an effort to ensure that all our customers are satisfied with their rental. All rental instruments are cleaned and calibrated before being sent to the user (please note that we also require equipment to be returned clean). If a rental instrument requires recalibration, please return the instrument to us and we will recalibrate at no charge. Any instrument not functioning properly can be exchanged at no cost.

Hoskin Scientific offers technical support over the phone and can also provide hands on demonstrations.

We are constantly expanding and looking for new equipment to add to the rental inventory and welcome all suggestions.

Check our website [www.hoskin.ca](http://www.hoskin.ca) for current offerings.

Daily, weekly and monthly rental rates available – please call for a quote.

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### Watterra Surge Blocks SBD-25 or SBD-32

The Watterra Surge Block is an excellent well development tool. It simply press fits over the body of the Standard or High Flow footvalve (D-25 or D-32). The Surge Block minimizes the annular gap between the footvalve and the well casing, surging and pumping simultaneously when the pump is operated. Developing wells in this manner is one of the best methods, often resulting in turbidity levels below 10 NTUs.

Material: Delrin



### Watterra Low Flow Pump D13

The Low Flow System is designed to be used in small diameter piezometers (usually 1" ID to 0.75" ID). The Low Flow System is also useful for sampling in damaged or obstructed monitoring wells.

Material: Delrin

Used with: 0.5" O.D. Tubing (0.375" I.D.)

Dimensions: 0.5" O.D x 1.125" long

Optimal Range: 0-75ft



### Watterra Standard Flow Pump D16

This pump is used with the 5/8" O.D. tubing (0.5" I.D.) and screws into the inside of the tubing wall. This system is best suited for smaller diameter wells that are > 5/8" and can provide lift up to 150 feet.

Material: Delrin

Used with: 5/8" O.D. Tubing (0.5" I.D.)

Dimensions: 0.625" O.D x 1.2" long

Optimal Range: 0-125ft



### Watterra Standard Flow Pump D25

The Standard Flow System is the most popular inertial pump. This system is best suited for 2" monitoring wells and can provide lift up to 150 feet.

Material: Delrin

Used with: 5/8" O.D. Tubing

Dimensions: 1.00" O.D x 2.875" long

Optimal Range: 0-125ft



### Watterra High Flow Pump D32

The High Flow System is designed to be used in 2-inch wells or larger where a high pumping rate is desired. This system is an excellent well development tool in 2-inch piezometers and can provide lift up to 250 feet.

Material: Delrin

Used with: 1.0" O.D. Tubing

Dimensions: 1.25" O.D x 4.0" long

Optimal Range: 0-175ft



### Watterra Low Flow Pump SS13

The SS13 is the Stainless Steel version of the D13. The Low Flow System is designed to be used in small diameter piezometers (usually 1" ID to 0.75" ID).

Material: Stainless Steel  
Used with: 0.5" O.D. Tubing (0.375" I.D.)  
Dimensions: 0.5" O.D x 0.5" long  
Optimal Range: 0-75ft



### Watterra Low Flow Pump SS13

The SS13 is the Stainless Steel version of the D13. The Low Flow System is designed to be used in small diameter piezometers (usually 1" ID to 0.75" ID).

Material: Stainless Steel  
Used with: 0.5" O.D. Tubing (0.375" I.D.)  
Dimensions: 0.5" O.D x 0.5" long  
Optimal Range: 0-75ft



### Watterra Standard Flow Pump SS16

The SS16 is a Stainless Steel version of the D16. This pump is used with the 5/8" O.D. tubing (0.5" I.D.) and screws into the inside of the tubing wall. This system is best suited for smaller diameter wells that are > 5/8" and can provide lift up to 150 feet.

Material: Stainless Steel  
Used with: 5/8" O.D. Tubing (0.5" I.D.)  
Dimensions: 0.625" O.D x 1.0" long  
Optimal Range: 0-125ft



### Watterra Standard Flow Pump SS19

The SS19 is a Stainless Steel version of the D25. This system is best suited for 2" monitoring wells and can provide lift up to 150 feet.

Material: Stainless Steel  
Used with: 5/8" O.D. Tubing  
Dimensions: 0.750" O.D x 3" long  
Optimal Range: 0-125ft



### Watterra High Flow Pump SS32

The SS32 is a Stainless Steel version of the D32. The increased weight of the high flow system makes manual operation difficult past 60ft and use of the Hydrolift II or Power Pump is strongly recommended.

Material: Stainless Steel  
Used with: 1.0" O.D. Tubing  
Dimensions: 1.25" O.D x 3.5" long  
Optimal Range: 0-175ft

### Waterra Lever Pump



The Waterra Lever Pump was designed to provide operators with a convenient, portable mechanism which would provide some mechanical advantage when manually operating the Inertial Pump as well as facilitating the collection of samples with this system. This actuator will fasten onto most above ground well completions quickly and easily. The tubing clamp is designed to accept both Standard Flow and High Flow tubing and the handle is adjustable in order to accommodate approximately 7 pounds.

### Waterra Hydrolift-2



The Waterra Hydrolift II is a portable, electrically operated device that is used to automate the operation of the Inertial Pump. The Hydrolift is powered by a 3/4 horsepower electric motor (available in either 110 volt or 220 volt) and generates a 4-inch stroke at up to 200 cycles per minute. This actuator can operate the Standard Flow System up to its maximum effective depth and will operate the High Flow System up to a depth of 150 feet. The Hydrolift weighs 35 pounds and requires an electrical power supply of at least 1000 watts.

### Waterra Powerpump-2



The PowerPump 2 is the most powerful pump actuator manufactured by Waterra. A Honda G100, 2.5 horsepower, 4-stroke gasoline motor powers this device. This actuator generates a 6-inch stroke and can operate both the Standard Flow System and the High Flow System to their maximum effective depths. The PowerPump 2 weighs 70 pounds and usually requires two people to carry it.

### Waterra PowerPack PP1



The Waterra PowerPack PP1 provides the mechanical actuation for pumping with inertial pumps to depths of over 60m, in a fully portable, single operator power unit. At 13 kg, the PowerPack PP1 provides outstanding pumping performance.

### Waterra Powerlift-3



The New Waterra PowerLift-3 is a powerful portable actuator with the durability of the Waterra Power Pump-2's mechanism and the light weight of the Hydrolift-2's motor, gear and control. This actuator can operate the Standard Flow System up to its maximum effective depth and will operate the and High Flow System up to a depth of 150 feet. The PowerLift-3 weighs 45lbs (20kg) and requires a 110 AC power source with a minimum of 1500 watts.



**Voss Disposable Weighted Bailers 91946-SW Non-Weighted Bailers 91946-S**

New features include an improved top and stainless steel weight design so they fill and empty as fast or faster than any other bailer on the market and provide easier threading of up to 1/4" twine or rope. Single or Double check valve bailers available.

Dimensions: 1.5" x 36" (other lengths available – 83")  
 Case: 24 bailers (83" bailers 12/case)



**Voss Disposable Weighted Bailers (SM) PE75-SW Non-Weighted Bailers (SM) PE75-S**

The smaller cousin of the standard Voss Disposable Polyethylene bailer. With their 3/4" diameter these bailers can go where others cannot.

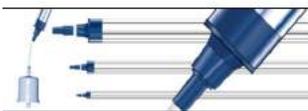
Dimensions: 0.75" x 36" (other lengths available – 83")  
 Case: 24 bailers (83" bailers 24/case)



**Waterra Clearview Bailers**

ClearView Disposable Bailers are designed with a special valve and valve seal to provide more positive sealing and less clogging when removing the bailer from the well. This is one disposable bailer that will not leak like a sieve when removed from the well. All ClearView Disposable Bailers come with the handy bottom-emptying spout.

Volume 200 ml - 1 Litre                      Diameter 0.7 - 1.5 inches  
 Weight 70 - 200 grams                      Material Rigid PVC  
 Length 37 inches                              24 or 30/case



**Waterra Clear PVC EcoBailer**

The Waterra Clear PVC EcoBailer is an eco-friendly product that is as heavy (or heavier) than conventional weighted bailers without the addition of bulky and costly weights. A better weight distribution allows the Waterra Clear PVC EcoBailer to sink straighter and the efficient valve design makes it the fastest sinking bailer available.

- available in 3 popular sizes (1.5", 0.7", 0.5")
- clear tube allows sample inspection within the bailer
- 24 bailers/case



**Voss Disposable Teflon Bailers**

SST-12-011

With the SingleSample® disposable Teflon® Bailer, you can eliminate cross contamination and decon time while meeting the requirements of quality assurance programs that limit sampling devices to Teflon®. The SingleSample® Teflon® Bailer can be used in any environment to eliminate exposing expensive, reusable bailers to high concentrations of contaminants that can cause permanent damage.

Dimensions: 1.5" x 36" (other lengths available – 12")  
 Case: 12 bailers (12" bailers 12/case)

## Bailers



### Norton Norwell Reusable Bailers

The Norton Norwell reusable water sampling bailers are made of chemically inert, 100% virgin Teflon® fluoropolymer resin. Bailers are available with a complete set of mix and match interchangeable components making them ideal in all groundwater sampling applications. Low cost Teflon® Economy Bailers are also available. They are easily disassembled for cleaning. Clear bodies are made of Teflon® fluoropolymer resin and include a precision ground ball check. Available in 1-3/4" diameter and in 1 or 3ft. lengths.

## Bailer Accessories



### Voss VOC Removal Device

The technique used to fill a VOC vial is at least as important a source of variance in VOC analysis as is well purging protocol or sampler design. The more the sample stream is agitated or exposed to the air during the transfer of sample from the bailer to the vial, the lower the concentration detected in the vial will be. The greatest loss of VOC's occurs when the sample is simply poured into the vial through the top of the bailer. Bottom emptying bailers with too rapid a flow also cause major losses.

For use with Voss SingleSample® 1.5" polyethylene bailers

## Gloves



### Safety House Nitrile Disposable Gloves (non-powdered)

- Colour: Blue
- Competitively priced
- High touch sensitivity
- Made from 100% Nitrile
- High resistance to a range of chemicals
- Latex free – Reduces risk of allergic reactions
- Corn starch used for our lightly powdered gloves
- Flexible for ease of donning and finger movement
- Colour-coded dispensers for easy size recognition



### Ronco BluRite Plus Disposable Gloves (non-powdered)

- Nitrile Medical Examination Gloves
- Premium Quality
- Powder Free



### Nalgene Filter Units

#### 209-VFU250

Complete, easy to use filtering devices for low turbid samples. Each unit includes a funnel, filter membrane, 250ml receiver and cap for receiver. Simply filter your sample, unscrew the receiver, cap it and send it to the lab.

Filter Media: CN (Cellulose nitrate)

Pore Size: 0.45  $\mu\text{m}$

Volume: 250ml receiver

Membrane Dia.: 50mm



### Waterra High Capacity Filter

#### FHT-45

The Waterra FHT-45 Filter is a capsule style filter, which is designed to quickly attach to the discharge end of either the Standard or High Flow pumping systems. Once installed, the user oscillates the pump to produce a flow through the filter. No connectors required.

Filtration Area: 700  $\text{cm}^2$

Pore Size: 0.45  $\mu\text{m}$



### Voss High Capacity Filter

#### GWC-45-600

Voss SingleSample<sup>®</sup> High Capacity, Disposable Groundwater Filter Cartridge: Designed especially for field filtering groundwater samples for metal analysis. Includes one threaded/barbed connector for use with 5/8" tubing.

Filtration Area: 600  $\text{cm}^2$

Pore Size: 0.45  $\mu\text{m}$



### Pall Gelman High Capacity Filters

#### 12180

Capsule filter designed for the preparation of groundwater samples for dissolved metals analysis. Requires the use of a STD-STD Connector for use with standard 5/8" Tubing.

Filtration Area: 700  $\text{cm}^2$

Pore Size: 0.45  $\mu\text{m}$



### Pall Gelman AquaPrep 600 Capsule

Capsule filters with optimized Supor<sup>®</sup> membrane for minimal background in dissolved metals analysis of water samples. No connector required for use with 5/8" tubing.

Filtration Area: 600  $\text{cm}^2$

Pore Size: 0.45  $\mu\text{m}$

**Pall Gelman AquaPrep Low Capacity Filter**



Compact and efficient low capacity filtration devices for clean, easy-to-filter water samples. 4270 Filter has hose barbs and can be used with 5/8" silicone or HDPE tubing. 4272 has 1/8" NPT threading

Filtration Area: 20 cm<sup>2</sup>  
 Pore Size: 0.45 µm

**Pall Gelman Low Capacity Syringe Filters**



Smaller than the 4272 filters, the AcroDisc filter with leur-lock is attached to a compatible syringe and can be used to sample small volumes. (Not certified) (See below for compatible syringe)

Membrane Type: Supor Membrane  
 Membrane dia.: 32mm  
 Pore Size: 0.45 µm

**60ml Syringe**



60ml syringe with leur-lock. Compatible with Pall Gelman AcroDisc 4654.



**1/4" O.D. x 0.170" I.D. Polyethylene Tubing**

Hoskin Scientific maintains a considerable stock of 1/4" Low Density Polyethylene (LDPE). This tubing is commonly used with peristaltic pumps.

- 1/4LDPE-100 Low Density Tubing, 100ft roll
- 1/4HDPE-100 High Density Tubing, 100ft roll
- 1/4HDPE-700 High Density Tubing, 700ft roll



**5/8" O.D. x 1/2" I.D. Polyethylene Tubing**

Hoskin Scientific maintains a considerable stock of both High Density Polyethylene (HDPE) and Low Density Polyethylene (LDPE) Tubing 5/8" O.D. in a range of lengths. This tubing is commonly used with the Waterra standard flow pumping systems (eg D25 footvalves).

- 5/8LDPE-100 Low Density Tubing, 100ft roll
- 5/8HDPE-100 High Density Tubing, 100ft roll
- 5/8HDPE-200 High Density Tubing, 200ft roll
- 5/8HDPE-500 High Density Tubing, 500ft roll



**1" O.D. x 3/4" I.D. Polyethylene Tubing**

Hoskin Scientific maintains a considerable stock of High Density Polyethylene (HDPE) with 1" O.D. This tubing is commonly used with peristaltic pumps.

- 1HDPE-100 High Density Tubing, 100ft roll



**1/4" O.D. x 1/8" I.D. Polyethylene Tubing**

Hoskin Scientific maintains a considerable stock of 1/4" Low Density Polyethylene (LDPE). This tubing is commonly used with peristaltic pumps.

- 1/4LDPE-100 Low Density Tubing, 100ft roll



**3/8" O.D. x 1/4" I.D. Polyethylene Tubing**

Hoskin Scientific maintains a considerable stock of 3/8" Low Density Polyethylene (LDPE). This tubing is commonly used with peristaltic pumps.

- 3/8LDPE-100 Low Density Tubing, 100ft roll



**#15 & #24 Silicone Tubing**

#15 - 3/8" O.D. x 3/16" I.D. | #24 - 7/16" O.D. x 1/4" I.D.

Hoskin Scientific offers 2 types of silicone tubing; Peroxide-cured tubing contains a small residue of 2,4 DCBA (dichlorobenzoyl acids) as a by-product of the curing reaction (trace amounts may be leached into the sample), platinum-cured tubing has no 2,4 DCBA residues.

- ST-#15-25 #15 Silicone Tubing, 25ft roll
- ST-#24-25 #24 Silicone Tubing, 25ft roll



### Torquer Well Plug

Ingenious, reliable locking mechanism, no moving parts  
Bright highly visible safety color  
Manufactured from an engineering grade polymer blend, same grade used in industry to replace steel gears  
Light weight yet super strong



### Waterra EcoPlug

The EcoPlug™ offers the latest in well plug design and is the only well plug made from recycled materials. If you're looking for a durable, tamper-proof well plug that will withstand repeated use (and abuse) over many years, the EcoPlug™ is an excellent fit for your requirements. This plug is available for 3/4", 1", 2" and 4" monitoring wells.



### Vapour Sampling EcoPlug

We've modified the 2" and 4" EcoPlugs™ to produce the Waterra Vapour Sampling EcoPlug™. This specialized well plug uses a stainless steel valve which allows you to extract a sample of the trapped headspace vapours. Pressure tested to 20 PSI, these caps prevent the loss of well gasses to the atmosphere. The Sample Port Adapter allows you to extract the sample without removing the cap from the well. The Sample Port Adapter can be attached to a peristaltic pump in order to draw out even more of the trapped headspace gasses.



### Electriloc Enviro Cap

The Electriloc Enviro Cap™ Environmental Well Cap has a hidden secret. This well cap has a magnetically activated lock built into the body of the cap. The magnetic locking mechanism is activated by using the ElectriKey. The ElectriKey has a special face that mates with the top of the Electriloc Enviro Cap™. When these two surfaces are joined, the magnet in the key causes the locking mechanism within the cap to engage, allowing the operator to lock or unlock the well cap. Without the key, the caps lock mechanism can be turned but to no avail.



### Grip 'n Lock

The Grip 'n Lock is a water tight, hinged, locking monitoring well cap. Constructed from heavy duty Nylon, this cap is quickly and easily installed onto 2" and 4" monitoring wells providing the only truly tamper-proof well cap available on the market today.

**Cyclone, Single Stage - 35ft lead, 25ft lift max**



The Engineered Plastic Cyclone® pump is capable of pumping up to 25 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous sampling and purging of groundwater wells.

Accessory - Low Flow Sampling Controller, 0 - 12 volts - adjustable - low flow capable

**Mini-Typhoon, 2 Stage Mini - 50ft lead, 40ft lift max**



The Engineered Plastic Mini-Typhoon® pump is capable of pumping up to 40 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous sampling and purging of groundwater wells.

Accessory - Low Flow Sampling Controller, 0 - 12 volts - adjustable - low flow capable

**Typhoon, 2 Stage - 60ft lead, 50ft lift max**



The Engineered Plastic Typhoon® pump is capable of pumping up to 50 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous sampling and purging of groundwater wells.

Accessory - Low Flow Sampling Controller, 0 - 12 volts - adjustable - low flow capable

**Tempest, 3 Stage - 70ft lead, 60ft lift max**



The Engineered Plastic Tempest® pump is capable of pumping up to 60 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous sampling and purging of groundwater wells.

Accessory - Low Flow Sampling Controller, 0 - 12 volts - adjustable - low flow capable

**Mini-Monsoon, 4 Stage - 80ft lead, 70ft lift max**



The Engineered Plastic Mini-Monsoon® pump is capable of pumping up to 70 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous sampling and purging of groundwater wells.

Accessory - Low Flow Sampling Controller, 0 - 12 volts - adjustable - low flow capable

**Tornado, 5 Stage - 90ft lead, 85ft lift max**



The Engineered Plastic Tornado® pump is capable of pumping up to 85 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous sampling and purging of groundwater wells.

Accessory - Low Flow Sampling Controller, 0 - 12 volts - adjustable - low flow capable

**Supernova70, 1.5" diameter, 80' lead, 70' lift max**



Sometimes smaller is better. Why waste time with a small diameter bailer or bladder pump when the Supernova will get the job done in a lot less time. And we mean a lot less time (take a look at the pump charts below.) The Supernova eliminates the need for heavy, bulky pumps and small diameter bailers. For all your purging and sampling needs the Supernova is a wiser choice.

Accessory - Low Flow Sampling Controller, 0 - 12 volts - adjustable - low flow capable

**Super Twister, 3 Stage Boosted - 90 ft lead, 85' lift max**



(no controller or booster is available for this pump)

The Engineered Plastic Super Twister® pump is capable of pumping up to 85 feet from ground level by simply connecting it to a 12 volt battery. This Revolutionary pump has our constant voltage booster technology (CVBT) built in. With the new built in booster the problem of tubing blowing is eliminated. If your battery should fall below 10.75 volts, the built in booster will recognize the low voltage and the pump will start pulsating. In short, this is an indicator of a low battery. The CVBT outputs a constant voltage to the Super Twister® Pump motors which reduces voltage drop due to battery drainage.

### Mega Typhoon, 90' lead, 80' lift max



The Engineered Plastic Mega-Typhoon® pump is capable of pumping up to 80 feet from ground level by simply connecting the POWER BOOSTER 1 or LOW FLOW WITH POWER BOOSTER 1 CONTROLLER. Then connecting the controller positive and negative alligator clamps to the 12 volt battery.

Accessory - E476-PA-1060 Power Booster Controller-1, 12 - 19 Volt Booster, adjustable from 12v to 19v

Accessory - E476-PA-10650 Low Flow Power Booster Controller-1, 0 - 19 Volt Booster - Low Flow adjustable (full 0-19v adjustable)

### Tsunami, 110' lead, 100' lift max



The Engineered Plastic Tsunami® pump is capable of pumping up to 100 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous sampling and purging of groundwater wells.

Required Accessories: E476-PA-10700 Power Booster Controller-2, 12 - 24 Volt Boost - adjustable

E476-PA-10750 Low Flow Power Booster Controller-2, 0 - 24 Volt Boost - Low Flow adjustable

### Monsoon, 130' lead, 120' lift max



The Engineered Plastic Monsoon® pump is capable of pumping up to 120 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous sampling and purging of groundwater wells.

Required Accessories: E476-PA-10700 Power Booster Controller-2, 12 - 24 Volt Boost - adjustable

E476-PA-10750 Low Flow Power Booster Controller-2, 0 - 24 Volt Boost - Low Flow adjustable

### Hurricane, 160' lead, 150' lift max



The Engineered Plastic Hurricane® pump is capable of pumping up to 150 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous sampling and purging of groundwater wells.

Required Accessories: E476-PA-10700 Power Booster Controller-2, 12 - 24 Volt Boost - adjustable

E476-PA-10750 Low Flow Power Booster Controller-2, 0 - 24 Volt Boost - Low Flow adjustable

**Mega-Monsoon, 210' lead, 200' lift max**



The Engineered Plastic Mega-Monsoon® pump is capable of pumping up to 200 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous sampling and purging of groundwater wells.

Required Accessory: E476-PA-10850, Power Booster Full Control-3, 0 - 24 volts - adjustable - low flow - high amp

**Supernova 120, 1.5" OD, 130' lead, 120' lift max**



Why waste time with a small diameter bailer or bladder pump when the Supernova will get the job done in a lot less time. And we mean a lot less time (take a look at the pump charts below.) The Supernova eliminates the need for heavy, bulky pumps and small diameter bailers.

Required Accessory: E476-PA-10700 Power Booster Controller-2, 12 - 24 Volt Boost - adjustable

E476-PA-10750 Low Flow Power Booster Controller-2, 0 - 24 Volt Boost - Low Flow adjustable

**SS Mini-Monsoon, 1 Stage Stainless - 90ft lead, 80ft lift max**



The SS Mini-Monsoon pump is capable of pumping up to 80 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous purging of groundwater wells. Proactive's Stainless Steel Pumps are patented for their unique design (#7252141).

**SS Mega-Typhoon, 1 Stage Stainless - 90ft lead, 80ft lift max.**

(includes 1 replacement motor, mounted on reel)

The SS Mega-Typhoon pump is capable of pumping up to 80 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous purging of groundwater wells. Proactive's Stainless Steel Pumps are patented for their unique design (#7252141).

Accessory E476-PA-10660, Low Flow Power Booster LCD 1 Controller



### SS Monsoon, 1 Stage Stainless - 130ft lead, 120ft lift max



(includes 1 replacement motor, mounted on reel, requires controller PA10670)

The SS Monsoon pump is capable of pumping up to 120 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous purging of groundwater wells. Proactive's Stainless Steel Pumps are patented for their unique design (#7252141).

Accessory E476-PA-10670 Low Flow power Booster 2 LCD Control

### SS Hurricane Stainless Pump - 160ft of cable, 150ft lift max



(includes 1 replacement motor, mounted on reel)

The SS Hurricane pump is capable of pumping up to 150 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous purging of groundwater wells. Proactive's Stainless Steel Pumps are patented for their unique design (#7252141).

Accessory E476-PA-10675, Low Flow Power Booster LCD 2.5 Controller

### SS Mega Monsoon Stainless Pump - 210ft of cable, 200ft lift max



(includes 1 replacement motor, mounted on reel)

The SS Mega-Monsoon pump is capable of pumping up to 200 feet from ground level by simply connecting it to a 12 volt battery. Its reliable design is suitable for continuous purging of groundwater wells. Proactive's Stainless Steel Pumps are patented for their unique design (#7252141).

Accessory E476-PA-10680, Low Flow Power Booster LCD 3.0 Controller

## Bladder Pumps

### MBP Mini Bladder Pump



The pneumatic Mini Bladder Pumps are designed to obtain a representative ground water sample with the assistance of a controller to provide variable flow rates. The controller allows the user to match the pumping rate to the well recharge rate, limiting the stress on the formation. The high efficiency design enables pump rates from 5 ml to nearly 2 L/min when used with one of our Precision Dual Range Controllers. The 1.66" diameter pump will produce flow rates up to 2 gpm.

### Mini PVC Bladder Pump



The mini PVC Bladder pumps are an ideal choice for low flow portable or dedicated sampling applications where stainless steel is not required. This may be especially true in landfill applications. The 1.3" diameter pump can be installed in 2" and larger wells. The low stroke volume 35 ml per cycle substantially reduces the fluid velocity at the pump inlet when compared to traditional bladder pumps. The high efficiency design provides flow rates from 35 ml and allows sampling up to 200 feet.

### Precision Dual Range Controller



Precision Dual Range Controllers allow precise control of the cycle time and the air pressure supplied to the bladder pump. This degree of control makes it easy to obtain a repeatable sample. Two independent air pressure regulators with gauges are provided. The encapsulated timer module provides accurate, independent timing of the pressure and exhaust cycles from 0.1 to 10 seconds.

Pressure Ranges: 2-50, 5-100 psig  
Power Source: Internal lead acid gel cell battery

### Precision Dual Range Controller with Built-in Compressor



Precision Dual Range Controllers allow precise control of the cycle time and the air pressure supplied to the bladder pump. This degree of control makes it easy to obtain a repeatable sample. Two independent air pressure regulators with gauges are provided. The encapsulated timer module provides accurate, independent timing of the pressure and exhaust cycles from 0.1 to 10 seconds. The standard controller has no compressor and requires an external air source.

Pressure Ranges: 2-50, 5-100 psig  
Max Depth: 50 ft (External air source for deeper applications)

### Locking Well Caps (For Bladder Pumps)



Used in dedicated applications where the pump and tubing are permanently installed in the well may greatly reduce sampling costs and improve sample quality. This method reduces the mixing of the water column during installation of the pump that occurs in portable use. Normally this will reduce the stabilization time during low flow sampling. In the dedicated scenario the pump and tubing are connected at the surface to the locking well cap. The field technician will simply connect the air supply and discharge tubing to the bulkhead fitting suspended below the locking well cap and begin to sample.

### Geopump Peristaltic Pumps



The Geotech Series I and II Geopump™ Peristaltic Pumps are designed for single and multi-stage pressure or vacuum pumping of liquids. The Geopump is ideally suited for field sample removal from shallow wells and all surface water sources.

RPM: 60 to 600 RPM, Variable control

Delivery rate: 1.67 ml per revolution

Max Depth: 27 feet at sea level

Power source: external 12 V DC or 120 V AC

Dimensions 3.5 x 8 x 8 inches

### Waterra Spectra Field Pro Peristaltic Pump

with Easy Load II, Analog controls, internal battery & cables



Waterra introduces the Spectra Field-Pro — a state of the art peristaltic pump that features a heavy-duty, all-inclusive design. This means no external cables, chargers or batteries to worry about.

### Waterra Pegasus Athena Peristaltic Pump

with Easy Load II, Digital controls, & cables (no battery)



Waterra distributes the Pegasus Athena® peristaltic pump, which is lightweight, compact and easy to use. Simply attach it to your 12 volt DC power supply. The high performance motor consumes only 3 amps at maximum RPM, making it an extremely efficient pump. The rugged Pelican™ 1300 case enclosure is made of impact and corrosion resistant ABS plastic, which can withstand demanding work conditions.

### Waterra Pegasus Alexis Peristaltic Pump

with Easy Load II, Digital controls, Internal battery & cables



Waterra distributes the Pegasus Alexis® Peristaltic Pump, a self contained sampling station that includes all the best features of these devices.

Packaged in the rugged Pelican™ 1430 case and incorporating its own power supply and charger, this pump will keep you sampling in the field all day long.

### Grundfos Redi-Flo 4 Submersible Pump



4" Submersible Pump For Environmental Remedial Pumping Applications. The Redi-Flo4 Variable Performance Submersible Pumps are constructed of virgin Teflon® and stainless steel to handle the rigors of contaminated groundwater monitoring and continuous operation in remediation. For Purging, Monitoring Wells and Recovery Wells.

Pump Diameter: 4"  
Requires: GrundFos Variable Frequency Drive Converter

### INW Reel EZ Pumping System



REEL E-Z® 2" Portable Pumping & Sampling System

Ideal for one-person purging and sampling operations, INW's REEL E-Z® portable sampling system includes a patented, light-weight aluminum reel, up to 250' of HAPPY HOSE!® or HAPPY CABLE!, fittings, motor lead, safety cable and a Grundfos® Redi- Flo2™ submersible electric pump.

Requires: GrundFos variable frequency drive converter

### INW DEDICATOR® Groundwater Sampling System



INW's DEDICATOR® is a turnkey, dedicated sampling pump system designed for easy installation and operation. Each system is custom-built to well specifications of 2" wells or larger, completely assembled, and tested prior to shipment. Includes a well seal, safety cable, and a Redi-Flo 2 electric submersible pump.

### Heron Little Dipper Water Level Meter



The small size and lightweight of the little dipper make it the ideal instrument for "carry in" sites, shallow wells and direct push equipment.

With: Bright LED, Buzzer, Sensitivity Control and battery test button

Probe Dia: 3/8in x 4in (9.5mm x 100mm)  
Tape Lengths: 22m (75 ft)  
Graduations: 1mm  
Warranty: 2 Years

### Heron Water Level Meter, Dipper T



Many years of experience have enabled HERON Instruments to design and build Water Level Meters that are rugged, reliable, and user friendly.

With: Bright LED, Buzzer, Sensitivity Control and battery test button

Tape Lengths: 15m, 30m, 50m, 100m

Graduations: 1mm

Warranty: 2 Years

Temp option available (water temperature displayed on the control panel)

### Waterra Water Level Meter



The Waterra WS Water Level Sensors are advanced products designed to offer the user the best features available at an affordable price.

With: Loud Buzzer, Sensitivity Control, Auto shut-off

Tape Lengths: 30m (100 ft)

Graduations: 1mm

### Heron Skinny Dipper



This rugged unit is intended for use in narrow tubes and piezometers. The tape on the skinny dipper is a narrow 0.24 inch x 0.133 inch (6.2 mm x 3.4 mm). The probe is 0.25 inch (6.25mm) diameter stainless steel. This thin section enables the skinny dipper to be used in tubes as narrow as 0.375 inch (9.5mm) internal diameter.

### Heron Water Tape water level meter - economy



The low cost and durability of the water tape make it an ideal choice for well drillers, pump installers and other severe service users

The water tape is designed and built with the same attention to quality and value as other Heron Products

Three year warranty

Enviro Bag (included)

Longer Tape Lengths available

### Heron Interface Meter – H.O1L



The Heron H.O1L Interface Meter is used to measure the thickness of floating or sinking hydrocarbon products in water. Accurate, Durable, Easy to Use with Kynar jacketed tape and field replaceable probe. Loud buzzer & LED light.

Tape Lengths: 15m – 150+m  
Graduations: 1mm  
Warranty: 2 years

### Small Heron Interface Meter – Sm.OiL



The Sm.OIL Interface Meter fills the requirement for a SMALL low cost high quality meter for use in shallow monitoring wells. Why pay for what you do not need? The 60ft or 20m-tape length of the Sm.OIL makes this unit the ideal unit for shallower wells.

Probe Dia: 6in x 5/8in (3/4 with shield) / (150mm x 16mm)  
Tape Lengths: 20m  
Graduations: 1mm  
Warranty: 2 years

### Waterra Interface Meter



The Waterra Interface Sensors utilize sophisticated ultrasonic sensors to help define the product layer. Tests have shown these sensors are more sensitive to a broader range of hydrocarbon products. Polyethylene coated tape.

Tape Lengths: 30m, 50m, 75m or 100m  
Graduations: 1mm

### Heron Smoil Oil Water Interface meter



Small size but big features. Heron's small interface meter is an economical unit that will measure to 60ft(20m) below the top of the well, making it ideal for shallow wells or high water tables. The Sm.Oil interface meter measures the thickness of floating or sinking layers of hydrocarbon products in the groundwater. Many of these instruments are used by refineries, oil spill and remediation companies, land fills and site clean up projects.



### Onset HOBO Water Level Logger - U20 (titanium) & U20L (economical)

Ideal for recording water levels and temperatures in wells, streams, lakes, wetlands, and tidal areas. The self-contained logger eliminates maintenance of vent tubes and dessicants, and minimizes contamination between deployments.

Range: 0-9 m (30 ft); 0-207 kPa (0-30 psia)  
0-30m (0-100 ft); 0-400 kPa (0-58 psia)  
0-76m (0-250 ft); 0-850 kPa (0-123 psia)

### Onset HOBO Bluetooth (BLE) Water Level Logger



The industry's first water level data logger designed for convenient wireless setup and download from mobile devices via Bluetooth Low Energy (BLE). The MX2001 logger consists of a top-end unit and a water level sensor connected by a direct read cable. Cables can be ordered in lengths from 0.2 to 500m for deployment in a wide range of wells.

### INW PT2X Submersible Pressure & Temperature Datalogger



The PT2X combines the level sensor, data logger and power source into one complete, easy to use package. The PT2X is powered internally with two AA batteries (or auxiliary power supply for intensive applications). The PT2X comes in cabled (gauge) or non-cabled versions.

Memory: 130,000 readings  
Pressure Static Accuracy: +/-0.1 %Span (0.06% available on request)  
Temp. Accuracy: +/- 0.75 °C

### INW CT2X Submersible Smart Sensor Conductivity Logger



The CT2X comes with INW's powerful, easy-to-use Aqua4Plus software, affording the user extensive control, including real-time monitoring and flexible programming, as well as versatile data display options.

Memory: 349,000 records  
Depth Static Accuracy: ± 0.05% FSO (typical) | ± 0.1% FSO (max)  
Temp. Accuracy: +/- 0.25 °C

### Heron Dipper Log

The Heron dipperLog offers a wide range of sampling intervals with pressure ranges to 400ft (120m) water head with temperature.

The low cost data logger is ideal for continuously monitoring water levels and temperature in wells, boreholes and open bodies of water. Its small size allows the dipper-log to be used in well diameters as small as 3/4 of an inch (20mm).



### Global Water WL15

The Water Level Logger, WL15 provides a datalogger with a submersible pressure transducer for remote monitoring and recording of well depth measurements, flow, and water pressure data. Linear fixed intervals from 1 per second to once every 32,000 seconds (also 0-32,000 minutes, hours, and days); Logarithmic test (for pump and slug tests); Event-based (value set by user). The water level recorder houses its data logger in a weather-resistant cylindrical enclosure that slips inside a 2-inch pipe.

Storage Capacity: 244,000 time and date stamped data points



### INW PS9800 Pressure Transducer

INW's patented PS9800 submersible pressure transmitter represents the latest in state-of-the-art level measurement technology. Building on years of successful experience, this industry standard two-wire, 4-20 mA device offers improved noise immunity, thermal performance and transient protection.

Excitation: 9 – 24 VDC  
Dimensions: 0.84" dia. x 10.75" long  
Output: 4-20 mA  
Static Accuracy: 0.1 %Span2



### Global Water WL400 Pressure Transducer

The WL400 consists of a solid-state pressure sensor encapsulated in a stainless steel submersible housing. The water level gauge has a molded-on waterproof cable that connects the water pressure sensor to the monitoring device.

Excitation: 10 – 36 VDC  
Dimensions: up to 5 1/2" long x 13/16" dia. (small enough for a 1" well)  
Output: 4-20 mA  
Static Accuracy: 0.2 %Span2





### Passive Bailer/Skimmer – 2" PRC

The Keck PRC is a passive skimmer with a floating intake that separates and recovers light hydrocarbons from groundwater. The Keck PRC collects floating product down to a sheen then is emptied through a discharge valve at the bottom of the canister after being raised to the surface. (Designed for recovery of product. Not intended for product sampling).

Effective buoy travel: 12"  
Recovery Capacities: 0.25, 0.5 and 1 L  
Monitoring well applications: 2" or larger

### Passive Bailer/Skimmer – 4" PRC



The Keck PRC is a passive skimmer with a floating intake that separates and recovers light hydrocarbons from groundwater. The Keck PRC collects floating product down to a sheen then is emptied through a discharge valve at the bottom of the canister after being raised to the surface. (Designed for recovery of product. Not intended for product sampling).

Effective buoy travel: 16"  
Recovery Capacities: 1, 3 and 4 L  
Monitoring well applications: 4" or larger



### RKI Eagle 2 Six Gas Sample Drawing Portable Monitor

A powerful instrument that does more than just offer the standard confined space protection for LEL, O<sub>2</sub>, H<sub>2</sub>S and CO.

The EAGLE 2 available features include a PID sensor for detecting high or low ppm levels (0-50 & 0-2,000) of VOC gases; % volume capability for CH<sub>4</sub> and H<sub>2</sub> using a TC (thermal conductivity) sensor; ppm or LEL hydrocarbon detection at the push of a button; infrared sensors for CO<sub>2</sub> (ppm or % volume), methane or hydrocarbons in LEL and % volume ranges.

### MiniRAE 3000 - Volatile Organic Compound (VOC) monitor



- Hand-held portable photoionization detector
- 0 to 15,000 PPM (STEL, TWA, PEAK)
- Built-in sample pump draws up to 100ft/30m horizontally or vertically
- Extra battery pack
- Data Log (up to 267 hours @ 1 min interval)
- 350 compounds correction factors - measure more than any other PID
- 3-year 10.6 eV lamp warranty

Typical Applications: Environmental Site Surveying, Industrial Hygiene/Safety, HazMat/  
Homeland Security

### AquaFluor



The Aquafluor™ is a lightweight, inexpensive, handheld fluorometer and turbidimeter. It is ideal for the user who needs quick measurements away from the laboratory. Its dual-channel capability allows the user to measure both fluorescence and turbidity in one sample.

You can configure the Aquafluor™ for any two channels as follows: in vivo chlorophyll a; cyanobacteria (phycocyanin or phycoerythrin); turbidity; rhodamine WT; fluorescein; ammonium and extracted chlorophyll a. While small in size, performance has not been compromised. The Aquafluor™ brings a new level of simplicity and economy to Turner Designs' line of fluorescence based instrumentation.

### CYCLOPS-7



The CYCLOPS-7 line of submersible fluorometers is designed for integration into multi-parameter platforms requiring a high performance, compact sensor at a significantly lower price than traditional submersible fluorometers. The CYCLOPS-7 combination of price, performance and size make the sensor very attractive for oceanographic, freshwater and dye tracing applications.

The CYCLOPS-7 fluorometers can be factory configured for a wide range of fluorophores including Chlorophyll a, Rhodamine WT, Fluorescein, Phycocyanin or Phycoerythrin. (Specify desired fluorophore on your order).

### Turner Designs C3 Submersible Fluorometer



The C3 Submersible Fluorometer is designed to incorporate up to three optical sensors ranging from the ultraviolet to the infrared spectrum. Internal memory storage capacity combined with an external submersible lithium ion battery allows the C3 to run during extended or short-term deployments. Each C3 comes with a factory installed temperature sensor and a depth rating of 600 meters. The C-Soft Windows based software allows for intuitive calibration, datalogging set up, file management capabilities as well as digital data integration.

### Turner Designs 10AU



The 10-AU-005-CE Field Fluorometer is a rugged, field-portable instrument that can be set up for continuous-flow monitoring or discrete sample analyses. A watertight case, internal data logging, automatic range changing, watertight quick-change filter paddles, and unmatched stability make the 10-AU the instrument of choice for field studies.

Sensitivity: 10 parts per trillion of Rhodamine WT in potable water  
Ranges: 3 ranges, each a factor of 10 more sensitive than the next, 0 to 9999.999 Fluorescent Signal Units  
Readout: Direct Concentration or Raw Fluorescence.



### YSI 600 Optical Monitoring System

In response to the growing need for a low-cost, “single parameter” optical measurement system in a small diam. (1.65”) sonde, YSI has released the 600 Optical Monitoring System (OMS). The 600 OMS can measure rhodamine (or one of chlorophyll or turbidity) in combination with temp., cond./sal, and depth.

Rhodamine: Range: 0 to 200 µg/L; 0 to 100% FS

Resolution: 0.1 µg/L; 0.1% FS

Accuracy: ±5% of reading or ±1.0 µg/L, whichever is greater



### Handheld Multiparameter Instrument with Digital Sensors

The YSI ProDSS (digital sampling system) handheld multiparameter meter provides extreme flexibility for the measurement of a variety of combinations for dissolved oxygen, turbidity, conductivity, specific conductance, salinity, resistivity, total dissolved solids (TDS), pH, ORP, pH/ORP combination, ammonium (ammonia), nitrate, chloride and temperature along with depth and GPS.



### Professional Plus Handheld Multiparameter Instrument

The YSI Professional Plus handheld multiparameter meter provides extreme flexibility for the measurement of a variety of combinations for dissolved oxygen, conductivity, specific conductance, salinity, resistivity, total dissolved solids (TDS), pH, ORP, pH/ORP combination, ammonium (ammonia), nitrate, chloride and temperature.

### EXO Sondes



The EXO1 water quality sonde is a new YSI multiparameter instrument that collects data with up to four user-replaceable sensors and an integral pressure transducer for depth. The EXO2 water quality sonde is a new YSI multiparameter instrument that collects data with six user-replaceable sensors, a central wiper to keep sensors clean of biofouling, and an integral pressure transducer for depth.





Hoskin Scientific Limited has been supplying testing and monitoring instruments since 1946. Although our range is broad, we focus on three major markets including:

Geotechnical & Materials Testing  
Environmental Monitoring  
Test & Measurement Instrumentation

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