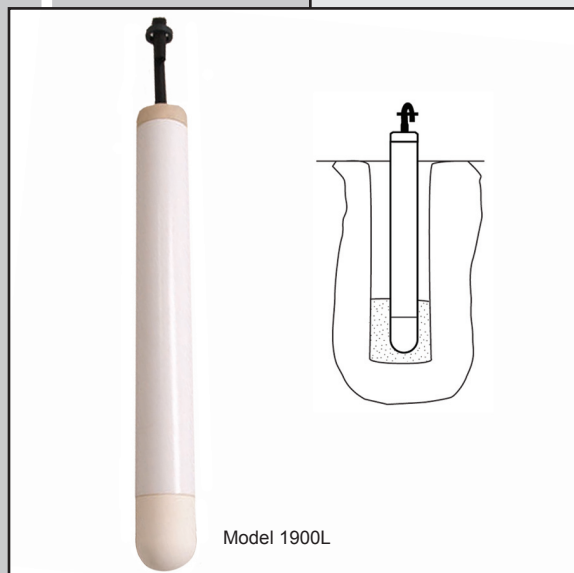


# SOIL

# WATER SAMPLING

## 1900L SOIL WATER SAMPLER



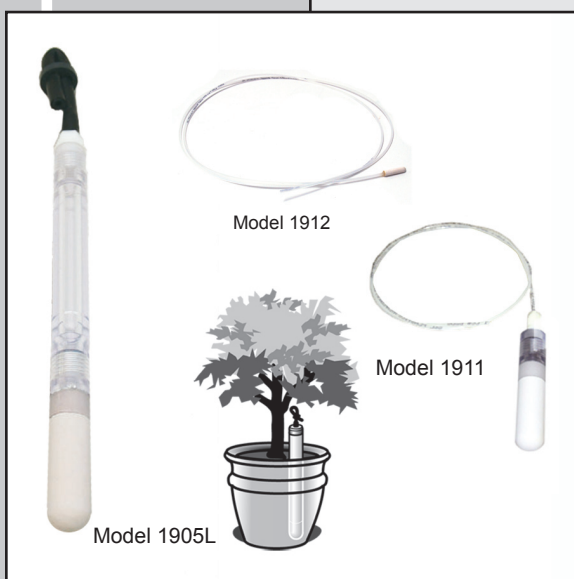
### For near-surface, environmental, ground water, crop health - pore water sampling

The Model 1900 Soil Water Sampler has been a standard for over 30 years in near surface environmental, ground water and plant rooting health where soil pore water is required. It's a large-volume sampler designed for near-surface installation at depths ranging from 6 inches (15 cm) to 6 feet (1.8 m). Most commonly used to collect pore water in near surface profiles, for the analysis of nutrients, pollutants, or other dissolved ions that have an effect on ground waters, environment and crop health.. The unit consists of a 1.9" (4.8 cm) outside diameter PVC tube, with a 2 bar (200-kPa) porous cup, Santoprene stopper, and Neoprene access tube used for evacuation. Clamping rings slip over the folded Neoprene tubing to seal the sampler after evacuation. We recommend an extraction kit, model 1900K2 (50ml) or 1900K3 (1liter) required for sample retrieval and you'll need a vacuum pump required to evacuate the sampler.

#### SPECIFICATIONS:

1900L06-B02M2 soil water sampler, 6" Length (15.24cm), 0.45 lbs. (0.20 kgs) -	250 ml
1900L12-B02M2 soil water sampler, 12" Length (30.84cm), 0.59 lbs. (0.27 kgs) -	500 ml
1900L24-B02M2 soil water sampler, 24" Length (60.96cm), 0.85 lbs. (0.38 kgs) -	1000 ml
1900L36-B02M2 soil water sampler, 36" Length (91.44cm), 1.07 lbs. (0.48 kgs) -	>1000 ml
1900L48-B02M2 soil water sampler, 48" Length (121.92cm), 1.33 lbs. (0.60 kgs) -	>1000 ml
1900L60-B02M2 soil water sampler, 60" Length (152.4cm), 1.54 lbs. (0.70 kgs) -	>1000 ml
1900L72-B02M2 soil water sampler, 72" Length (182.88cm), 2.02 lbs. (0.92 kgs) -	>1000 ml

## 1905L & 1911 (SMALL) SOIL WATER SAMPLERS



### For container or restricted access pore water sampling

The model 1905L "Slim Tube" soil water sampler is a small 7/8" (2.2cm) diameter sampler designed for taking discrete samples where installation space is limited. The slim tube sampler comes complete with a 1 bar (100 kPa) high-flow, screw in porous ceramic cup, screw on cap. The perfect sampler for container sampling. Extension tubes can be added to increase the depth of operation.

If you need to sample in a cored soil sample or block, or deep in a pit sidewall you will want to consider the 1911 sampler as it can go almost anywhere and at any angle or position to get a pore water sample. The model 1911 Remote Sampler "Only" is configured more for remote sampling using a selection of top fittings for either 1/8" (.317 cm) or 1/4" (.635 cm) diameter. The 1911L10 (4 or 8) comes complete with 10 ft. (3 m) of either 1/8" (.317 cm) or 1/4" (.635 cm) tubing making attachment a snap. The vacuum reservoir / collection vessel (purchased separately) is normally situated at a site adjacent to the sampling site. You'll want to consider our model 1900K2 (50ml) or 1900K3 (1liter) extraction kits to address this need.

#### SPECIFICATIONS:

1905L06 SLIM TUBE SOIL WATER SAMPLER, 6" LENGTH (15 cm)	0.30 lbs. (0.13 kgs)
1905L12 SLIM TUBE SOIL WATER SAMPLER, 12" LENGTH (30 cm)	0.44 lbs. (0.19 kgs)
1905L24 SLIM TUBE SOIL WATER SAMPLER, 24" LENGTH (60 cm)	0.70 lbs. (0.31 kgs)
1905L60 SLIM TUBE SOIL WATER SAMPLER, 60" LENGTH (150 cm)	1.50 lbs. (0.68 kgs)

1911	REMOTE SAMPLER, 3" (7.62 cm) SAMPLE HEAD, ONLY
1911L108	REMOTE SAMPLER, 3" (7.62 cm) SAMPLE HEAD, 10 ft. (3.04 m)-1/8 in (.317 cm) dia. Tubing
1911L104	REMOTE SAMPLER, 3" (7.62 cm) SAMPLE HEAD, 10 ft. (3.04 m)-1/4 in (.635 cm) dia. Tubing



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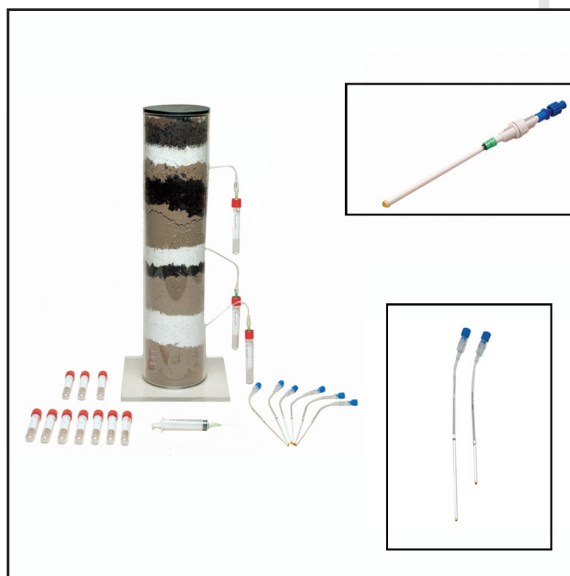
## 1908DL SERIES MICRO SAMPLERS

### Tiny "micro & macro" diameter sampling for columns, tight profiles, or limited space

A disposable miniature pore water sampler that is ideal for extraction work in column studies or other small containers, when space, congested point sampling may itself influence the study. Composed of porous hydro-philic plastic, these samplers wet spontaneously making them ideal. The 0.1 micron pore size within the porous material (having a 217 psi bubbling pressure) comes with Luer Lock Connector and Terminal Cap 1 mm internal diameter 0.5 ml "dead volume". These samplers are normally inserted into a soil column through a the sidewall of a column. Can be used in near surface rooting environments. Uses continuous vacuum or use an evacuated vials to collect the pore liquids.

#### SPECIFICATIONS:

1908D2.5L10	Micro Sampler - Body 0.09" (2.5 mm) diameter x 3.54" ( 9 cm) Length.
1908D4.5L09	Macro Sampler -Body .177" (2.5 cm) diameter x 3.93" (10 cm) Length
1908D2.5L10Pkg05	Package of 5 ea. Micro Samplers
1908D2.5L10Pkg10	Package of 10 ea. Micro Samplers
1908D4.5L09Pkg05	Package of 5 ea. Macro Samplers
1908D4.5L09Pkg10	Package of 10 ea. Macro Samplers
1908D2.5L10K05	Complete Sampling Kit for 5 Micro Sample, includes vacuum vials, needles & samplers
1908D2.5L10K10	Complete Sampling Kit for 10 Micro Sample, includes vacuum vials, needles & samplers
1908D4.5L09K05	Complete Sampling Kit for 5 Macro Samples, includes syringe, collecting container & sampler
1908D4.5L09K10	Complete Sampling Kit for 10 Macro Samples, includes syringe, collecting container & sampler



## 1906DC SERIES STAINLESS SAMPLER

### The sampler to use when pore liquids are susceptible to PVC leaching or Alumina exchanges

There are instances where very powerful organics or in-organics (such as a toxic land farms, impoundments and contamination sites) have dissolved powerful pore water constituents that will "eat", interact and react with PVC's or Alumina. The 1906C series provide a set of samplers specifically built wholly from stainless steel. These samplers can be used to collect pore water samples from saturated to -50 cb (-50 kPa) suction level. A good product solution for these toxic organics or most in-organics. Not recommended for sensitive chromium sampling. Choose the dual chamber model "C2" for installations greater than 10 ft (3 m) or single chamber models "C1" for sampling at depths <10 ft (3 m).

#### SPECIFICATIONS:

1906D20V0.5C2	2.0" Dia.(5.08 cm), 18" L (45 cm), Outlet 4 and 6.5" L (10.16-16.51cm), 575 ml Sample, Duel Chamber unit
1906D20V1.0C2	2.0" Dia.(5.08 cm), 26" L (66 cm), Outlet 4 and 6.5" L (10.16-16.51cm), 1000 ml Sample, Duel Chamber unit
1906D20V1.5C2	2.0" Dia.(5.08 cm), 36" L (91.5 cm), Outlet 4 and 6.5" L (10.16-16.51cm), 1500 ml Sample, Duel Chamber unit
1906D20V0.3C1	2.0" Dia. (5.08 cm), 10.7" L (27.2cm) Outlet 4 and 6.5" L (10.16-16.51cm), 260 ml Sample, Single Chamber unit
1906D08C1	0.8 Dia. (2.03 cm), 4.5" L (11.4cm) Outlet 6 and 11" L (15.24-27.94cmcm), No holding capacity, Single Chamber unit.



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## 1920 PRESSURE/VACUUM SOIL WATER SAMPLER



### The standard used around the world for PPM pore water sampling

Our best selling pore liquid sampler. Used by regulatory agencies to protect ground water contamination at landfills, impoundments and land farms. Whether your interests concern environmental safety, monitoring pesticide migration, or solubility of nutrients, you can be assured of a history of quality and care in every sampler, spanning more than 30 years. The model 1920F1L provides excellent performance for pore liquid sampling with parts per million (PPM) sensitivity in the unsaturated (vadose) zone. Designed for remote access sampling, spanning hundreds of feet to the sampler. The standard 1920F1L is composed of a porcelain (2 Bar) ceramic cup, epoxy bonded to a Food Grade PVC body. Pressure / vacuum type sampler, is designed to collect samples under a landfill or at depth. It has a sample line to retrieve sample, and a pressure/vacuum line (to evacuate and purge the sampler). It is typically installed at depths to 50 ft (15 meter) in depth with about 100 ft (30 meter) lateral displacement, or they can be installed to 10 ft (3 meter) depth and up to 500 ft (152 meter) lateral displacement.

#### SPECIFICATIONS:

All 1920 have an outer diameter of 1.9" (5 cm)  
 1920F1L06 Nominal length 6" (15 cm), sample volume 75 ml, weight 0.38 lbs. (0.20 kgs)  
 1920F1L12 Nominal length 12" (30 cm), sample volume 150 ml, weight 0.58 lbs. (0.26kgs)  
 1920F1L24 Nominal length 24" (61 cm), sample volume 300 ml, weight 0.90 lbs. (0.40 kgs)  
 1920F1L36 Nominal length 36" (91 cm), sample volume 450 ml, weight 1.50 lbs. (0.68 kgs)

## 1922 & 1923 "ULTRA PURE" SAMPLERS



### Parts per billion, sampling for trace quantities, extreme purity required in sampling

Only a very pure, all ceramic sampler complete with Teflon seals can give you that degree cleanliness. There simply is no better product for finding trace elements in the realm of super sensitive subsurface pore water investigative work. Comprised 1 bar High Flow (B01M3) High Fired Alumina Ceramic, with glazed joints, and interior glazed cup having Teflon seals, Teflon fittings, and stainless steel access tube all designed purity. The ULTRA PURE pore liquid sampler design is that of a pressure / vacuum type sampler. Pore liquid pulled from surrounding soil, captured in the glazed interior of the ceramic. Sample liquids "pushed" out under moderate pressure. The porous alumina ceramic material used throughout is a high flow body ceramic with very low adsorption characteristic and (>1.0 bar, -100 kPa) bubbling pressure.

#### SPECIFICATIONS:

1922 Outside Diameter 1.9" (4.8 cm), Inside Diameter 1.6" (4.1 cm), Length 10" (25.4 cm)  
 Weight: 1.00 lbs. (0.45 kgs), sample volume 80 ml  
 1923 Outside Diameter 4.0" (10.2 cm), Inside Diameter 3.37" (8.6 cm), Length 15" (38.1 cm)  
 Weight: 4.25 lbs. (1.93 kgs), sample volume 560 ml

#### Accessory Item:

1922K1 ULTRA CASING CLAMP KIT - Diameter 3 in (7.62 cm) long, 2.25 in (5.71 cm)  
 Weight 5oz (162 gm)





## 1940 & 1942 DEEP SAMPLERS

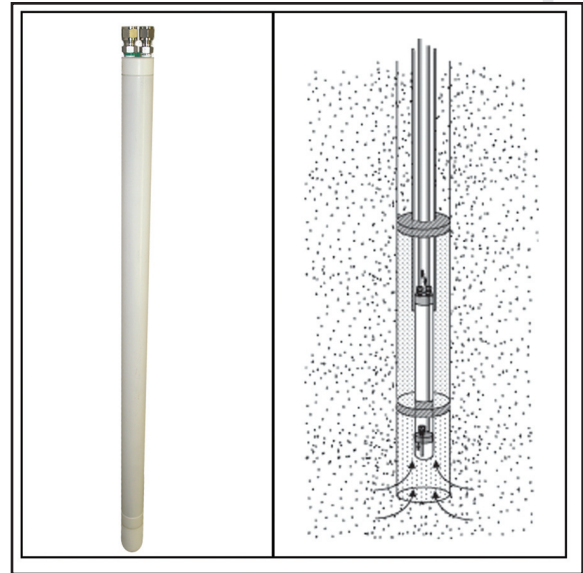
### Deep universal sampling at depths up to 300 ft (100 meters)

These samplers have been the preeminent choice of customers around the world looking for deep pore water sampling. If you are in an area with deep water tables, pollutants that are deep into strata, or there are extensive lateral distances from the sample point all are reachable with the 1940 series. The models 1940 & 1942, are designed for high pressure operating conditions in deep bore holes to a depth of 300 ft. (100 meters) These samplers are typically used in applications deeper than 50 ft (15 meters) depth. However, the installation depth can be increased indefinitely, when the collected samples are staged in up to 300-ft (100 meters) lifts using the 1940 Sampling Stage. Both the 1940 and 1942 samplers provide excellent performance for pore liquid sampling with parts per million sensitivity from vadose zone investigations. The cup-end plug assembly provides a threaded seat for the stainless steel check valve, and a stepped shoulder to epoxy bond the high temperature ceramic (B02M2) cup. The 1942 is a slimmer version of the 1940 having a 1.312" (3.3 cm) OD compared to the 1940's 1.9" (4.83 cm) OD and both having the same body length (30"-77cm).

#### SPECIFICATIONS:

1940 Deep Sampler - 1.90" (4.83 cm) Diameter, length is 30" (77 cm),  
Weight: 4.5 lbs. (2 kgs), Holding Volume 250 ml

1942 Deep Sampler (slim version) - 1.3" (3.30 cm) Diameter, length is 30" (cm),  
Weight 2.18 (1Kg), Holding Volume 80ml



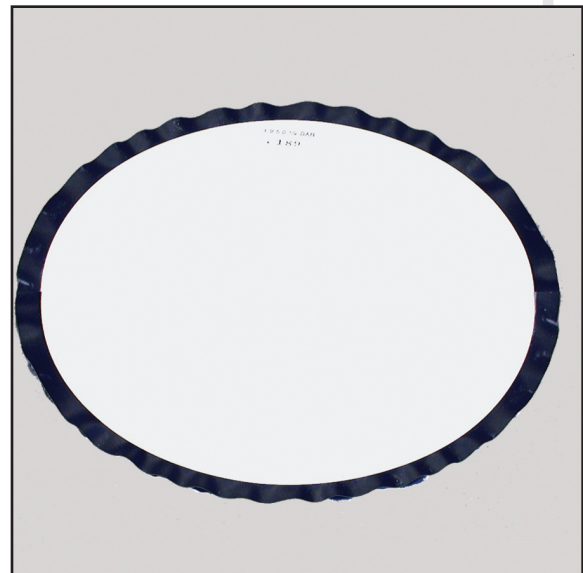
## 1950B.5 SOIL WATER SAMPLING PLATE

### For PPM sampling - under soil columns or side cuts in access holes

Need a subsurface sampling plate for cutouts in large diameter access hole, or need a small suction plate for column analysis? The 1950B.5 is a good choice. Provides a large sampling surface for conditions saturated to 50 cb. of suction. This large surface area design 10.5 inch diameter (27 cm diameter) 86.6 square-inch (558 square cm), with a capability of 837 ml/min. flow rate. The sampling plate is a vacuum-type sampler and requires continuous vacuum and a trap flask assembly to collect pore liquids, situated remotely from the sampling plate. The sampling plate has a butyl rubber backing and uses a stainless steel tie wire, sampler outflow stem on the bottom side of the sampling plate. The ceramic is our high flow 0.5 bar ceramic mix (B0.5M2), ideally suited to collect pore liquids under very low moisture-tensions less than 50 kPa.

#### SPECIFICATIONS:

1950B.5 SOIL WATER SAMPLING PLATE - 10.5" (27 cm) diameter, 1/2" (1.27 cm) Thick,  
weight 2.42 lbs. (1.10 kgs)

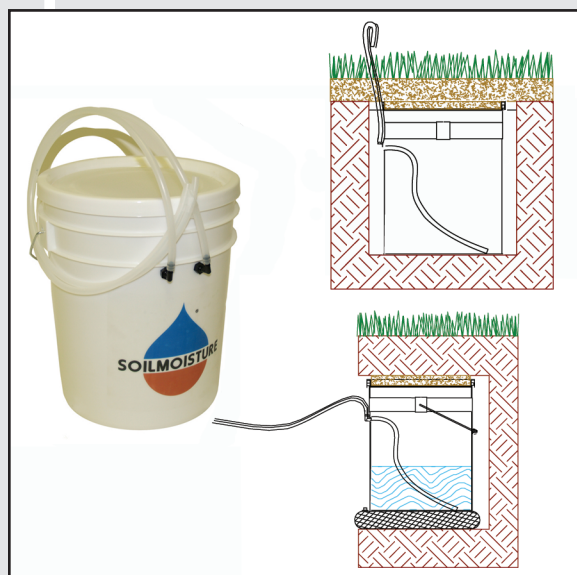


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## 1960 PAN LYSIMETER

### Saturated Soil - Drainage Sampling



A Pan Lysimeter (pore water sampler) is the perfect device for taking samples in conditions of soil saturation and subsequent drainage conditions. Placed near surface or at some depth it provides a good way to collect soluble agrochemical surface residue, near surface salt accumulations (created over the dry season), or in gaining a better understanding of the infiltration properties of a particular soil type under high flow conditions. Top screen allows for placement of cover crop, etc. over the collection bucket. Easy access provided by "flush & sample removal" access tubes to the surface. The Pan Lysimeter requires minimum maintenance after installation. For the best results, the lysimeter should be checked and pumped on a regular basis.

#### SPECIFICATIONS:

1960 PAN LYSIMETER Diameter 12" (30.5 cm), Height 15" (38.1 cm)  
Weight 2.6 lbs. (1.2 kgs) Volume 5 gal (15L)

## SOIL WATER SAMPLING ACCESSORIES

### 2005G2 & 2006G2 HAND PUMPS

#### Portable hand pumps for vacuum and pressure availability in the field



Model 2006G2

Model 2005G2

In using the variety of our 1900 series soil (pore) water samplers one needs to have a reliable vacuum source. Many times you need to have it working now, without failed batteries, or line voltages for motorized units. In those cases we have several alternatives to meet those needs. The 2005G2 is a hardy small hand operated vacuum pump (with vacuum gauge) for creating the necessary vacuum (up to -80 cb or -80kPa vacuum) within a sampler and also useful in the extraction of solution from the samplers having a 6 cu in (100ml) volume stroke capacity. Recommended for 1900 Series Samplers. The Model 2006G2 is a very sturdy and rugged foot held hand pump when you want move a volume of air ( 28 cu in - 500ml) per stroke. The 2006G2 provide up to 75 psi (500kPa) pressure and a -90cb or -90kPa vacuum. Recommended for the 1920 -1942 series samplers. Both vacuum pumps are constructed of non-ferrous metals, plastics and laminates that assure years of functionality in wet and dirty field conditions. You may want to consider the 1900K3 Extraction Kit as an accompaniment (see soil water sampler accessories)

#### SPECIFICATIONS:

2005G2 VACUUM HAND PUMP 10 in (25.4 cm) Long X 1.2 in (3.05 cm) Dia.  
Weight 1.25 lbs. (.57 kgs)  
2006G2 VACUUM HAND PUMP 22 in (55.8 cm) Long X 1.5 in (3.81 cm) Dia.  
Weight 6.3 lbs. (2.85 kgs)



# SOIL WATER SAMPLING ACCESSORIES

## 2008 ELECTRIC PRESSURE/VACUUM PUMP

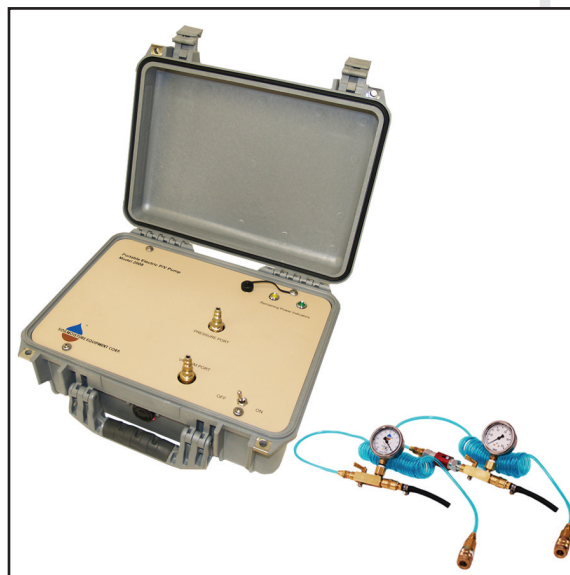
### Motorized Electric Pressure/Vacuum Pump for easy servicing of Samplers

If you're a consultant, commercial enterprise or research facility having to service multiple soil water samplers at a multitude of locations this is the tool. The 2008 provides the easiest way to service each location with fast, large volume vacuum capabilities, and in developing quickly the needed "sample" push pressures. A welcome helper for reducing labor in your sampler servicing field work. The Electric Pressure Vacuum Pump is battery-operated combination pump, with 2 sealed lead acid batteries for total continuous working time of 5 hrs. With both pressure (Pressure 0-100 psi; with max pressure setting) and vacuum (0-100 cbar) gauges. Comes with a number of features including readout dials for both pressure and vacuum ports, a pressure regulator output limits, and a valve for controlling speed to pressurization or vacuum creation. Quick connects on the pump console and on output connection hose assemblies provided for easy and trouble free connection. Comes complete with inline filter, 2ea. "Stretch Coil" hoses each 3ft. long and output assemblage having readout dials and control valves. All this encased in a portable, splash water proof pelican carrying case.

#### SPECIFICATIONS:

##### 2008 PORTABLE ELECTRIC PRESSURE / VACUUM PUMP

Length: 18.5" (47cm) X 14.5" (36.5) Width X 7" (17.8 cm) High,  
Weight 20 lbs. (9.07 kgs) -12 VDC ( 110-220 Charger)

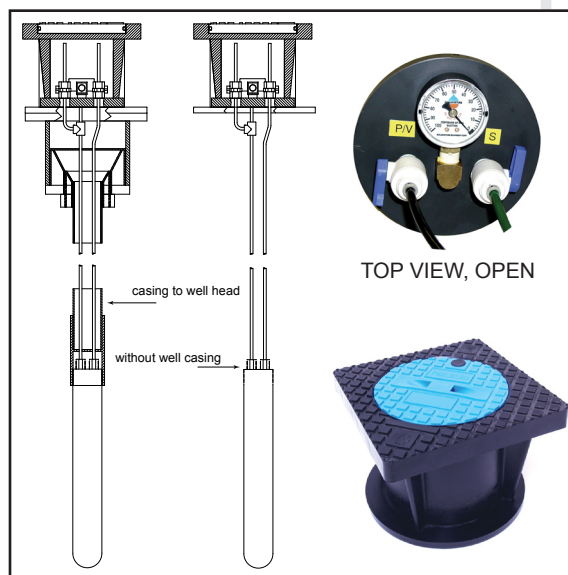


## INSTALLING

### 1919T SAMPLER WELL HEAD CAPS

#### Security and Safety in protecting your sampler installation from tampering or vandals

Today it's hard enough to get the permits, drillers, and subcontractors to put the samplers in the right place in the right way and be assured it's all in working correctly when it's complete. If you're a researcher, regulator or compliance oriented organization it's extremely important that the data you get is free of bias by tampering or outright vandalism. The 1919 Series of Soil Water sampling well heads provide that type of security and professional termination for your sampler installation. Low profile, lockable, and service friendly, the 1919 well head caps provide a trouble free access to your sub-surface sampler. Our well heads come complete with a water tight top cover, internal vacuum gauge to monitor suction values at the sampler and values for servicing the pressure / vacuum ports of the sampler. They can be purchased alone as the final step in a pre-designed enclosure or with a 1-1/2 PVC casing adapter so that it sits atop your casing string at the surface. Made from high density polypropylene and PVC the unit is rugged, water resistant and corrosion free. The T1 Model is a simple cap for direct connection to the sampler access tubing at the sub-surface T2 Model is for connecting to 1-1/2 PVC casing tubing from the sub-surface sampler assuring a closed and protected route for access tubes from sampler to surface. Either in the ground or embedded in a cement pad the well cap is the way to finish your professional soil water sampler installation.



#### SPECIFICATIONS:

##### 1919T1 SAMPLER WELL HEAD CAP -

8 in (20.3 cm) Wide, 8 in (20.3 cm) Deep, 6 in (15.2 cm) Long, Weight 2.3 lbs. (1.04Kg)

##### 1919T2 SAMPLER WELL HEAD CAP (casing adapter)

8 in (20.3 cm) Wide, 8 in (20.3 cm) Deep, 9 in (15.2 cm) Long, Weight 3.2 lbs. (1.45Kg)

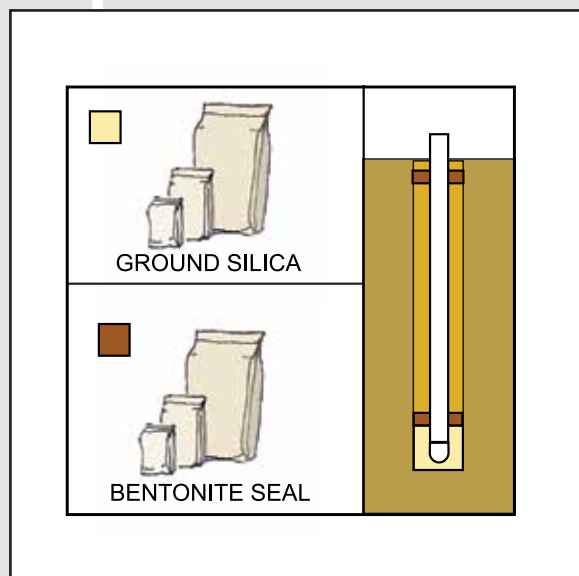
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## INSTALLING

### 0922W BENTONITE SEAL & 0930W GROUND SILICA



**The 2 critical ingredients for a proper sampler install, don't install without them**

**0922W BENTONITE SEAL** is extremely important in "sealing" the sampler into the installation hole and preventing back flow down the drill hole. If your expecting to get realistic samples of soil pore water then it's paramount to prevent bias from rain water, irrigations etc. from preferentially travel down the installation drill hole. This NSF approved, 30-50 Mesh, high density (65lbs /cu ft.- 29.45 Kg / .028 cu m), granular bentonite is the prefect expanding clay sealant used above the silica fill near the drill hole bottom and as a top seal near the surface.

**0930W GROUND SILICA** (referred to as "silica flour") is probably the most important element needed to properly install a sampler. The high purity 200 Mesh silica flour is put in the hole prior to install to assure that the sampler sits on a firm level base assuring hydraulic contact with the bottom of the hole. Subsequent back filling above the ceramic cup assures contact to hole side walls. In all the pure ground silica provides the necessary interface access allowing the sampler pull soil pore waters from the surrounding soil profile created by the drill hole pulling pure water out of the sampler cup without biasing the pore water sample.

**SPECIFICATIONS:**

0930W005 BENTONITE SEAL, NSF approved, 5 lbs (2.27Kg)  
 0930W010 BENTONITE SEAL, NSF approved, 10 lbs (2.27Kg)  
 0930W050 BENTONITE SEAL, NSF approved, 50 lbs (4.54Kg)  
 0930W100 BENTONITE SEAL, NSF approved, 100 lbs (22.7Kg)

0922W005 GROUND SILICA, High Purity, 5 lbs (2.27Kg)  
 0922W010 GROUND SILICA, High Purity, 10 lbs (4.54Kg)  
 0922W050 GROUND SILICA, High Purity, 50 lbs (22.7Kg)  
 0922W100 GROUND SILICA, High Purity, 100 lbs (45.4Kg)

### 1901PECL ACCESS TUBING, POLYETHYLENE



**High quality Polyethylene sampler access tubing – from sampler to the surface**

To provide an acceptable link from the sub-surface sampler to the surface one is generally looking for the best cost effective solution. The Model 1901PE series is an excellent fit. The tubing comes in rolls of 50 -1000 ft. in multiple colors (Black "N" –pressure/vacuum port, Green "G" -sample collection port, Blue "B"- utility tubing used in special applications) specifically manufactured for sampler access use. The tubing we provide is a nominal .250 in (+/- .010) - (63mm +/- 2.54mm) Diameter. with a .065 in (16.5 mm) wall, with smooth and unpitted to assuring a good "crimp" seal.

**SPECIFICATIONS:**

**BLACK**

1901PECNL0050 BLACK ACCESS TUBING, .250 in (63 mm), .065 in (16.5 mm) Wall, 50 ft roll  
 1901PECNL0100 BLACK ACCESS TUBING, .250 in (63 mm), .065 in (16.5 mm) Wall, 100 ft roll  
 1901PECNL0500 BLACK ACCESS TUBING, .250 in (63 mm), .065 in (16.5 mm) Wall, 500 ft roll  
 1901PECNL1000 BLACK ACCESS TUBING, .250 in (63 mm), .065 in (16.5 mm) Wall, 1000 ft roll

**BLUE**

1901PECBL0050 BLUE ACCESS TUBING, .250 in (63 mm), .065 in (16.5 mm) Wall, 50 ft roll  
 1901PECBL0100 BLUE ACCESS TUBING, .250 in (63 mm), .065 in (16.5 mm) Wall, 100 ft roll  
 1901PECBL0500 BLUE ACCESS TUBING, .250 in (63 mm), .065 in (16.5 mm) Wall, 500 ft roll  
 1901PECBL1000 BLUE ACCESS TUBING, .250 in (63 mm), .065 in (16.5 mm) Wall, 1000 ft roll

**GREEN**

1901PECGL0050 GREEN ACCESS TUBING, .250 in (63 mm), .065 in (16.5 mm) Wall, 50 ft roll  
 1901PECGL0100 GREEN ACCESS TUBING, .250 in (63 mm), .065 in (16.5 mm) Wall, 100 ft roll  
 1901PECGL0500 GREEN ACCESS TUBING, .250 in (63 mm), .065 in (16.5 mm) Wall, 500 ft roll  
 1901PECGL1000 GREEN ACCESS TUBING, .250 in (63 mm), .065 in (16.5 mm) Wall, 1000 ft roll



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## INSTALLING 1901PTDL ACCESS TUBING, PTFE (TEFLON)

**Highest purity sampler access tubing –  
from sampler to the surface**

If your samples are subject to low PPM or Parts Per Billion scrutiny then you'll want to consider using our 1901PTDL series PTFE tubing. PTFE is known for its cleanliness and purity in all forms of scientific sample collection and storage. This highly inert and pure tubing comes in its natural white color in 1/8 in (31.7mm) diameter, .031 in (7.87 mm) wall or .250 in (63.5 mm) diameter and .031 in (7.78 mm) wall in any number of lengths to meet your sampler access needs.

### **SPECIFICATIONS:**

1/8" .125 (31.7 mm) OUTSIDE DIAMETER

1901PTD125L025 PTFE (Teflon) ACCESS TUBING, .125 in (31.7 mm) Dia., .031 in (7.87 mm) Wall, 25 ft.

1901PTD125L050 PTFE (Teflon) ACCESS TUBING, .125 in (31.7 mm) Dia., .031 in (7.87 mm) Wall, 50 ft.

1901PTD125L100 PTFE (Teflon) ACCESS TUBING, .125 in (31.7 mm) Dia., .031 in (7.87 mm) Wall, 100 ft.

1901PTD125L500 PTFE (Teflon) ACCESS TUBING, .125 in (31.7 mm) Dia., .031 in (7.87 mm) Wall, 500 ft.

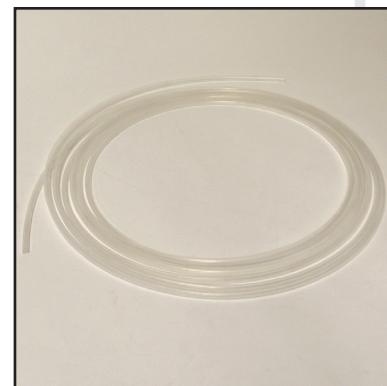
1/4" .250 (63.5 mm) OUTSIDE DIAMETER

1901PTD250L025 PTFE (Teflon) ACCESS TUBING, .250 in (63.5 mm) Dia., .031 in (7.87 mm) Wall, 25 ft.

1901PTD250L050 PTFE (Teflon) ACCESS TUBING, .250 in (63.5 mm) Dia., .031 in (7.87 mm) Wall, 50 ft.

1901PTD250L100 PTFE (Teflon) ACCESS TUBING, .250 in (63.5 mm) Dia., .031 in (7.87 mm) Wall, 100 ft.

1901PTD250L500 PTFE (Teflon) ACCESS TUBING, .250 in (63.5 mm) Dia., .031 in (7.87 mm) Wall, 500 ft.



## 1901PNDL ACCESS TUBING, NYLON

**Nylon pressure/vacuum access tubing –  
from sampler to the surface**

Nylon is a cost effective answer to providing a clean and reliable access to the pressure / vacuum port of pressure / vacuum samplers. It is also great used in sample collection retrieving in 1900 series samplers. Since nylon adsorbs water and will lengthen and shorten it's not recommended for the sample side of pressure / vacuum samplers or where other long term water holding capabilities are required and length changes may cause problems. Model 1901PNDL is a universal tubing for many applications. It comes in its natural white color in 1/8 in (31.7mm) diameter, .031 in (7.87 mm) wall or .250 in (63.5 mm) diameter and .031 in (7.78 mm) wall in any number of lengths to meet your sampler access needs.

### **SPECIFICATIONS:**

1/8" .125 (31.7 mm) OUTSIDE DIAMETER

1901PND125L025 NYLON ACCESS TUBING, .125 in (31.7 mm) Dia., .031 in (7.87 mm) Wall, 25 ft.

1901PND125L050 NYLON ACCESS TUBING, .125 in (31.7 mm) Dia., .031 in (7.87 mm) Wall, 50 ft.

1901PND125L100 NYLON ACCESS TUBING, .125 in (31.7 mm) Dia., .031 in (7.87 mm) Wall, 100 ft.

1901PND125L500 NYLON ACCESS TUBING, .125 in (31.7 mm) Dia., .031 in (7.87 mm) Wall, 500 ft.

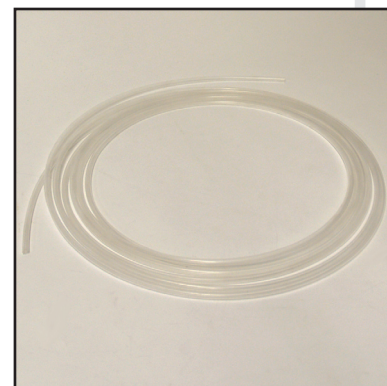
1/4" .250 (63.5 mm) OUTSIDE DIAMETER

1901PND250L025 NYLON ACCESS TUBING, .250 in (63.5 mm) Dia., .031 in (7.87 mm) Wall, 25 ft.

1901PND250L050 NYLON ACCESS TUBING, .250 in (63.5 mm) Dia., .031 in (7.87 mm) Wall, 50 ft.

1901PND250L100 NYLON ACCESS TUBING, .250 in (63.5 mm) Dia., .031 in (7.87 mm) Wall, 100 ft.

1901PND250L500 NYLON ACCESS TUBING, .250 in (63.5 mm) Dia., .031 in (7.87 mm) Wall, 500 ft.



## 1901REDL ELASTOMER CONNECTION TUBING

You have a number of choices in the selection of access tubing from sampler to the surface you'll want to terminate your access tubes with a sturdy and reliable "rubber" tube that pliable if your not using a well head cap. The 1901REDL is an outstanding EPDM elastomer developed for it's ability to retain flexibility in outdoor applications with high sunlight and ozone conditions. A clean and "unfilled" rubber type tubing is black in color having a 50-60A Shore. There are two sizes 1901RED062 1/16" [.062 (15.7mm)] ID for 1/8" [.125 in (31.7 mm)] OD access tubing, and the 1901RED187 3/16" [.187 in (47.6 mm)] ID for the 1/4" [.250 in (63.5 mm)] OD access tubing. Both come in a number of sizes to meet your needs.

### **SPECIFICATIONS**

1/16 .062 (15.7 mm) INSIDE DIAMETER

1901RED062L010 EPDM ELASTOMER CONNECTING TUBING .062 in (15.7 mm) Dia., .062 in (15.7 mm) Wall, 10 ft.

1901RED062L025 EPDM ELASTOMER CONNECTING TUBING .062 in (15.7 mm) Dia., .062 in (15.7 mm) Wall, 25 ft.

1901RED062L050 EPDM ELASTOMER CONNECTING TUBING .062 in (15.7 mm) Dia., .062 in (15.7 mm) Wall, 50 ft.

3/16" .187 (47.6 mm) INSIDE DIAMETER

1901RED187L010 EPDM ELASTOMER CONNECTING TUBING .187 in (47.6 mm) Dia., .125 in (31.7 mm) Wall, 10 ft.

1901RED187L025 EPDM ELASTOMER CONNECTING TUBING .187 in (47.6 mm) Dia., .125 in (31.7 mm) Wall, 25 ft.

1901RED187L050 EPDM ELASTOMER CONNECTING TUBING .187 in (47.6 mm) Dia., .125 in (31.7 mm) Wall, 50 ft.



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## INSTALLING

## 1901UTD PFA (TEFLON) TUBING CONNECTOR

## PTFE (Teflon) connectors to join access tubes together

Access tubes can break or get damaged on site during installation making a discontinuity from sampler to surface at those times you need a tubing connection fast. The Model 1901UTD series of PFA fluoropolymer connectors is there to do the job. Extremely clean and inert PFA material meets the tough ppb sampling requirements using dual crimp ferrule type end assemblies to join two similar size tubes to both ends. With a 275 psi (1868 kPa) working pressure you're assured of a reliable, long term connectivity to your sampler with absolutely no bias from it being there.

## SPECIFICATIONS:

FOR 1/8" .125 (31.7 mm) DIAMETER TUBING

1901UTD125PKG05 PFA (Teflon) TUBE CONNECTOR, for .125 in (31.7 mm) Dia., both ends, package of 5 ea.

1901UTD125PKG10 PFA (Teflon) TUBE CONNECTOR, for .125 in (31.7 mm) Dia., both ends, package of 10 ea.

1901UTD125PKG50 PFA (Teflon) TUBE CONNECTOR, for .125 in (31.7 mm) Dia., both ends, package of 50 ea.

FOR 1/4" .250 (63.5 mm) DIAMETER TUBING

1901UTD250PKG05 PFA (Teflon) TUBE CONNECTOR, for .250 in (63.5 mm) Dia., both ends, package of 5 ea.

1901UTD250PKG10 PFA (Teflon) TUBE CONNECTOR, for .250 in (63.5 mm) Dia., both ends, package of 10 ea.

1901UTD250PKG50 PFA (Teflon) TUBE CONNECTOR, for .250 in (63.5 mm) Dia., both ends, package of 50 ea.

## TUBING TEES ALSO AVAILABLE

1901TTD125 PTFE TUBING TEES for 1/8" - .125 in (31.7) Dia. all ports, available in similar packaged sets.

1901TTD250 PTFE TUBING TEES for 1/4" - .250 in (63.5) Dia. all ports, available in similar packaged sets.

## 1901UBD BRASS - QUICK TUBE CONNECTOR

## Brass quick-push connectors join access tubes quickly no tools required

Looking to get the job done quickly and with quality you might want to consider highly reliable sturdy brass connectors made for easy sealing and good working pressures 300 psi (2068 kPa). The nickel plated brass "push" connectors have a Nitrile o-ring seal, Polyacetal push button and stainless steel grab ring allowing for a pressure / vacuum seal at the push of a button. Available for both 1/8" .125 in (31.7 mm) tubing O.D. and 1/4" .250 (63.5 mm) tubing O.D.'s. Not recommended for low level sampling (low ppm -ppb levels) for copper, zinc or chromium.

## SPECIFICATIONS:

FOR 1/8" .125 (31.7 mm) DIAMETER TUBING

1901UBD125PKG05 BRASS QUICK TUBE CONNECTOR, for .125 in (31.7 mm) Dia., both ends, package of 5 ea.

1901UBD125PKG10 BRASS QUICK TUBE CONNECTOR, for .125 in (31.7 mm) Dia., both ends, package of 10 ea.

1901UBD125PKG50 BRASS QUICK TUBE CONNECTOR, for .125 in (31.7 mm) Dia., both ends, package of 50 ea.

FOR 1/4" .250 (63.5 mm) DIAMETER TUBING

1901UBD250PKG05 BRASS QUICK TUBE CONNECTOR, for .250 in (63.6 mm) Dia., both ends, package of 5 ea.

1901UBD250PKG10 BRASS QUICK TUBE CONNECTOR, for .250 in (63.6 mm) Dia., both ends, package of 10 ea.

1901UBD250PKG50 BRASS QUICK TUBE CONNECTOR, for .250 in (63.6 mm) Dia., both ends, package of 50 ea.

## TUBING TEES ALSO AVAILABLE

1901TBD125 BRASS TUBING TEES for 1/8" - .125 in (31.7) Dia. all ports, available in similar packaged sets.

1901TBD250 BRASS TUBING TEES for 1/4" - .250 in (63.5) Dia. all ports, available in similar packaged sets.

## 1901USD STAINLESS STEEL TUBING CONNECTOR

## Stainless steel connectors to join access tubes together

Stainless has always meant the clean metal for all types of non-contamination uses. These connectors provide unequalled strength and operating pressures (>1000 psi (6894 kPa) / vacuum sealing capabilities. The unit comes with crimp ferrules to assure a extremely reliable seal. These connectors are highly recommended any time one considers joining plastic to metal tubing. Available for both 1/8" .125 in (31.7 mm) tubing O.D. and 1/4" .250 (63.5 mm) tubing O.D.'s. Not recommended for low level sampling (low ppm -ppb levels) for chromium.

## SPECIFICATIONS:

FOR 1/8" .125 (31.7 mm) DIAMETER TUBING

1901USD125PKG05 STAINLESS TUBE CONNECTOR, for .125 in (31.7 mm) Dia., both ends, package of 5 ea.

1901USD125PKG10 STAINLESS TUBE CONNECTOR, for .125 in (31.7 mm) Dia., both ends, package of 10 ea.

1901USD125PKG50 STAINLESS TUBE CONNECTOR, for .125 in (31.7 mm) Dia., both ends, package of 50 ea.

FOR 1/4" .250 (63.5 mm) DIAMETER TUBING

1901USD250PKG05 STAINLESS TUBE CONNECTOR, for .250 in (63.6 mm) Dia., both ends, package of 5 ea.

1901USD250PKG10 STAINLESS TUBE CONNECTOR, for .250 in (63.6 mm) Dia., both ends, package of 10 ea.

1901USD250PKG50 STAINLESS TUBE CONNECTOR, for .250 in (63.6 mm) Dia., both ends, package of 50 ea.

## TUBING TEES ALSO AVAILABLE

1901TSD125 STAINLESS TUBING TEES for 1/8" - .125 in (31.7) Dia. all ports, available in similar packaged sets.

1901TSD250 STAINLESS TUBING TEES for 1/4" - .250 in (63.5) Dia. all ports, available in similar packaged sets.



## INSTALLING

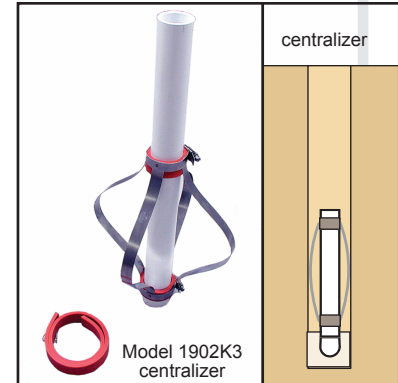
### 1902K3 SAMPLER CENTRALIZER KIT

#### Making sure that your sampler is oriented to the center of the hole and vertical

When your installing a soil water sampler it's important to know the sub-surface orientation of the sampler. Is the unit situated in the center of the hole? and in a vertical position? this sometimes hundreds of feet below your vantage point. The stainless steel centralizer is sturdy in construction and with two screw clamps at either end will do the job. Simply tighten down one end of the centralizer then push the other end, bulging out the stainless steel lands to the interior size of the drill hole. Tighten the other end to keep the bulge at the proper distance and the sampler is ready to lower down the hole and in perfect alignment for placement in the sub surface. Comes with red silicon rubber padding and the centralizer unit - fits all 1.90 in (4.83 cm) diameter samplers

#### SPECIFICATIONS

1902K3 SAMPLER CENTRALIZER KIT for 1.90 in (4.83 cm) diameter, 15" x 4" x 4" (38 cm X 10.15 cm X 10.15 cm), weight 0.68 lbs (.31 kgs), opens from 2.5" to 14" hole size



## 1907U CASING CLAMPS

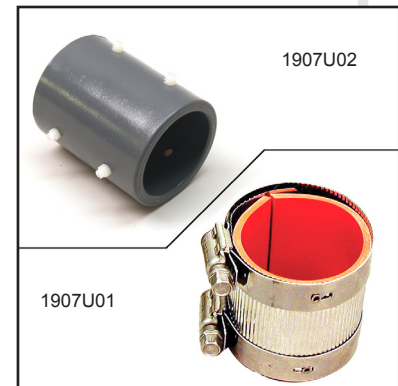
#### Joining well casing lengths without using solvent welding or chemical solvents

When your interests are determining organic transfer in pore water solutions it's a good idea to make sure the installers don't join any PVC casing lengths with solvent glues or adhesives. The best way to join those lengths is by mechanical means. We have several alternatives to do just that. The U01 Clamp is a stainless steel band type with screw clamps at either end. The U02 Clamp relies on 3 set screws located 120 degrees apart on either side of a slip fit pipe connector. The U02 is fabricated from PVC coupling and 1/4 " .250 in (63.5 mm) nylon set screws.

#### SPECIFICATIONS

1907U01 STAINLESS CLAMP FOR 1-1/2 " PVC CASING LENGTHS, 3" x 3" x 3" (7.6 cm x 7.6 cm x 7.6 cm) Weight 0.25 lbs (0.11 kgs)

1907U02 PLASTIC COUPLING CLAMP FOR 1-1/2" PVC CASING LENGTHS, 3" x 3" x 3" (7.6 cm x 7.6 cm x 7.6 cm) Weight 0.28 lbs (0.13 kgs)



## SAMPLING

### 1900K2 50ML SAMPLE EXTRACTION KIT

#### The simple way to get the solution samples from a 1900 Sampler into a container

Nothing beats a simple pull push method of collecting samples from a near surface 1900 sampler than with this simple device. It easily pulls the sample from the sampler into the syringe then you push it out to a sample bottle or container. Do the same process in distilled water to clean the unit and you're ready for the next sampler. Comes with 10 ft. (3.04 m) of 1/8" .125 in (31.7 mm) nylon connecting tubing to reach even the deepest sampler solution.

#### SPECIFICATIONS

1900K2 1900 SERIES SOLUTION EXTRACTION KIT with 1/8" .125 (31.7mm) x10 ft. (3.04 m), 10" x 6" x 2" (24.4 cm x 15.24 cm x 5 cm), Weight 0.059 lbs (0.13 kgs)



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## 1900K SAMPLE EXTRACTION KITS



Include in 1900K4

### Removing solution samples the quick and easy way from 1900 Samplers

The 1900K series kits bring to the field the essentials for quickly removing solution samples from the 1900 series extractors. Comes with 1 liter polypropylene flask stoppers and accessory nylon tubing for access to the bottom of your 1900 sampler. The 1900K3 has all the items necessary for extraction assuming you already have a vacuum hand pump. The 1900K4 has all the same items however it also includes the vacuum hand pump and carrying case (not shown) for all the items.

#### SPECIFICATIONS:

1900K3 SOLUTION EXTRACTION KIT, 1000 ml capacity, flask, associated tubing and stoppers.  
1900K4 SOLUTION EXTRACTION KIT, 1000 ml capacity, with case, vacuum pump, flask, associated tubing and stoppers.

## 1301V LABORATORY SAMPLE BOTTLES, CLEAR

### When your solution sample is important, only lab grade glass assure purity



If your research is working in the ppb's or simply making sure that you are analyzing what was removed in the ground you want only the purity that clean borosilicate glass (type 1, Class A) can assure. This is extremely important in those circumstances that involve a "chain of custody" requirement and assurances that the sample is unbiased by the container in which it was held. Across the world labs insist their solutions are kept in their pristine condition, that's the way we feel about your sample. Model 1301V# are clear sample bottles with autoclave-able polypropylene (PTFE available) caps assuring samples bottle can remain pure use after use. Comes with exterior gradations for easy determination of volume contents, permanent identity label for marking content information. Caps available in a number of colors to identify site location or region and even a septum cap for syringe sampling.

#### SPECIFICATIONS:

1301V050PKG03 SAMPLE BOTTLE, Clear, 50ml, 3 ea. - must specify cap color and type "T"  
1301V100PKG03 SAMPLE BOTTLE, Clear, 100ml, 3ea. - specify cap color and type "T"  
1301V250PKG03 SAMPLE BOTTLE, Clear, 500ml, specify cap color and type "T"  
1301V500PKG03 SAMPLE BOTTLE, Clear, 500ml, specify cap color and type "T"  
ALSO AVAILABLE IN PACKAGES OF PKG06 - 6ea. and PKG12 - 12ea. in all sized CAPS -TG "Green", TB "Blue", TR "Red" TO "Orange", TP "Purple" TS "Septum Cap"

## 1302V LABORATORY SAMPLE BOTTLES, LIGHT SENSITIVE

### When your solution sample is important, only lab grade glass assures purity



If your research is working with organics in ppb's or simply making sure that you are analyzing what was removed in the ground that may be light sensitive, you want only the purity that darkened borosilicate glass (type 1, Class A) can assure. This is extremely important in those circumstances that involve a "chain of custody" requirement and assurances that the sample is unbiased by sunlight or UV exposure while it was held. In labs across the world that insist their light sensitive solutions are kept in their pristine condition, and that's the way we feel about your sample. The Model 1302V# are special dark brown transparent bottles with autoclave-able polypropylene (PTFE available) caps assuring sample bottles can remain pure use after use. Comes with exterior gradations for easy determination of volume contents, permanent identity label for marking content information. Caps available in a number of colors to identify site location or region and even a septum cap for syringe sampling.

#### SPECIFICATIONS:

1302V050PKG03 SAMPLE BOTTLE, Dk Brown, Light Sensitive, 50ml, 3 ea. - must specify cap color and type "T"  
1302V100PKG03 SAMPLE BOTTLE, Dk Brown, Light Sensitive, 100ml, 3ea. - specify cap color and type "T"  
1302V250PKG03 SAMPLE BOTTLE, Dk Brown, Light Sensitive, 500ml, specify cap color and type "T"  
1302V500PKG03 SAMPLE BOTTLE, Dk Brown, Light Sensitive, 500ml, specify cap color and type "T"  
ALSO AVAILABLE IN PACKAGES OF PKG06 - 6ea. and PKG12 - 12ea. in all sized CAPS -TG "Green", TB "Blue", TR "Red" TO "Orange", TP "Purple" TS "Septum Cap"