

# Pennsylvania Driller



Summer 2001



*Stuart Reese, PG, provided information on erosion and sediment control for water well drilling and aquifer testing at PGWA's Summer Annual Meeting at Campbell Manufacturing in Bechtelsville*

*Attendees at PGWA's Summer Annual Meeting had the opportunity to tour the plant of Campbell Manufacturing*



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**A special thank you to Campbell Manufacturing for making this year's Summer Annual Meeting a success!**



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*The Pennsylvania Ground Water Association newsletter is published quarterly. Deadline for copy and advertising is February 15, May 15, August 15, and November 15, 2001. For information on placing an advertisement or submitting an article, please contact Jodi Snyder, 7 Long Lane Drive, Hummelstown, PA 17036; telephone and fax 717. 566. 4587; email [jlsnyder@epix.net](mailto:jlsnyder@epix.net).*

# Report From the President...

On June 16, 2001, PGWA held its summer meeting at Campbell Manufacturing Inc. in Bechtelsville, PA.

We had a very successful meeting, thanks to the efforts of Emery Davis, Chairman and CEO of Campbell, for opening his plant to our meeting. I would also like to thank Debbie Schur, National Sales Manager, Jim Mathis, General Manager Monoflex Division, and the rest of the staff at Campbell for their efforts to present a very beneficial program.

Thanks also to Stuart Reese, PG, for his information on erosion and sediment control for water well drilling and aquifer testing.

Our next Board Meeting will be at 10:00 am on September 26, 2001 at the Holiday Inn, Lancaster County.

It is not too early to mark your calendars for the 2002 winter meeting on January 24 through 26. Please note this year's meeting is at the Penn Stater Conference Center Hotel.

If you plan to attend the National Ground Water Expo in Nashville, Tennessee on December 7-9, 2001, please let Carl Mason or myself know so we can get you signed up to be a delegate for Pennsylvania.

Have a good fall. See you in Nashville.

***Richard Raab, President***

*Pennsylvania Ground Water Association*

## New Fact Sheet Published by DEP

*by Todd Giddings, Ph.D., P.G.*

The DEP Bureau of Water Supply and Wastewater Management has published a new two-page fact sheet titled Erosion and Sediment Control Best Management Practices For Water Well Drilling and Aquifer Testing. During well drilling and during pumping tests, muddy water containing cuttings needs to be controlled to prevent sediment pollution of streams.

This fact sheet describes the best techniques to provide detention so cuttings will settle out of the flow of water during drilling. Techniques for residential and other low-capacity wells include constructing a shallow trench and then directing the flow across a flat, vegetated area. A semi-circle of staked straw bales beyond the trench will provide

*continued on page 11*



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## PGWA Board and General Membership Minutes

June 16, 2001 - Bechtelsville...by Todd Giddings, Secretary

- Attendees:** President Richard Raab, Directors Jim Hartmann, Todd Giddings, William Reichart, Judy Bear, Dick Burke, Scott Moyer, Richard Raab, Jr., Ernie Smith, Executive Director Carl Mason, Jodi Snyder, and 22 additional members.
- Minutes:** The minutes of the April 25, 2001 Board of Directors Meeting were approved.
- Treasurer's Report:** Carl Mason presented a summary of transactions and balances in the Association's accounts. There was a discussion of the role and responsibilities of the Treasurer. A motion was made by Dick Burke and seconded by Jim Hartmann to bond both the Executive Director and the Treasurer in the amount of \$20,000 each, at a cost of \$200 per year. The motion carried unanimously. A motion was made by Bill Martin and seconded by Judy Bear to move \$20,000 from the checking account to an interest bearing account. The motion carried unanimously. A motion was made by Todd Giddings and seconded by Andrew Bear to reimburse Dick Raab for his travel and meal costs associated with his meetings on the new legislation. The motion carried unanimously.
- Membership Report:** Current membership is 246 members.
- Legislation Report:** Richard Raab reported that the Residential Water Well Construction Standards legislation, which was introduced on May 10 and 11, 2001, now has the support of 46 Representatives and more than 20 Senators. The legislation was approved and supported by the Citizens Advisory Committee.
- 2002 Winter Meeting:** To be held on January 24, 25, and 26, 2002 at the Penn Stater Conference Center Hotel in State College. A motion was made by Bill Martin and seconded by William Reichart to make the conference fees \$100 for members, \$50 for additional persons from the firm, and \$200 for exhibitors. Non-members would pay an additional fee of \$25 in each category. The motion carried unanimously.
- Old Business:** Richard Raab discussed AD&D insurance rates to be considered for all members as a benefit of membership.
- Next Board Meeting:** September 26, 2001 at the Holiday Inn at Turnpike Exit 21.

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## PA Driller Deadline

The next deadline for the *PA Driller* falls on **November 15, 2001**. Please submit all articles, advertisements, photos, etc. to:

Jodi Snyder  
 7 Long Lane Drive  
 Hummelstown, PA 17036  
 FAX (717) 566-4587 (also phone)  
 email - jlsnyder@epix.net



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# Drought Watch Issued by DEP

by Todd Giddings, Ph.D., P.G.

On August 8, 2001, the Department of Environmental Protection issued a drought watch for 23 counties in central Pennsylvania. A drought watch is the first of the three drought stages under the state's drought-operating plan. It calls for a voluntary 5-percent reduction of nonessential water use. A drought warning, the second stage, calls for a 10 percent to 15 percent voluntary reduction in water consumption, and a drought emergency, the third and most severe stage, imposes mandatory restrictions on water use.

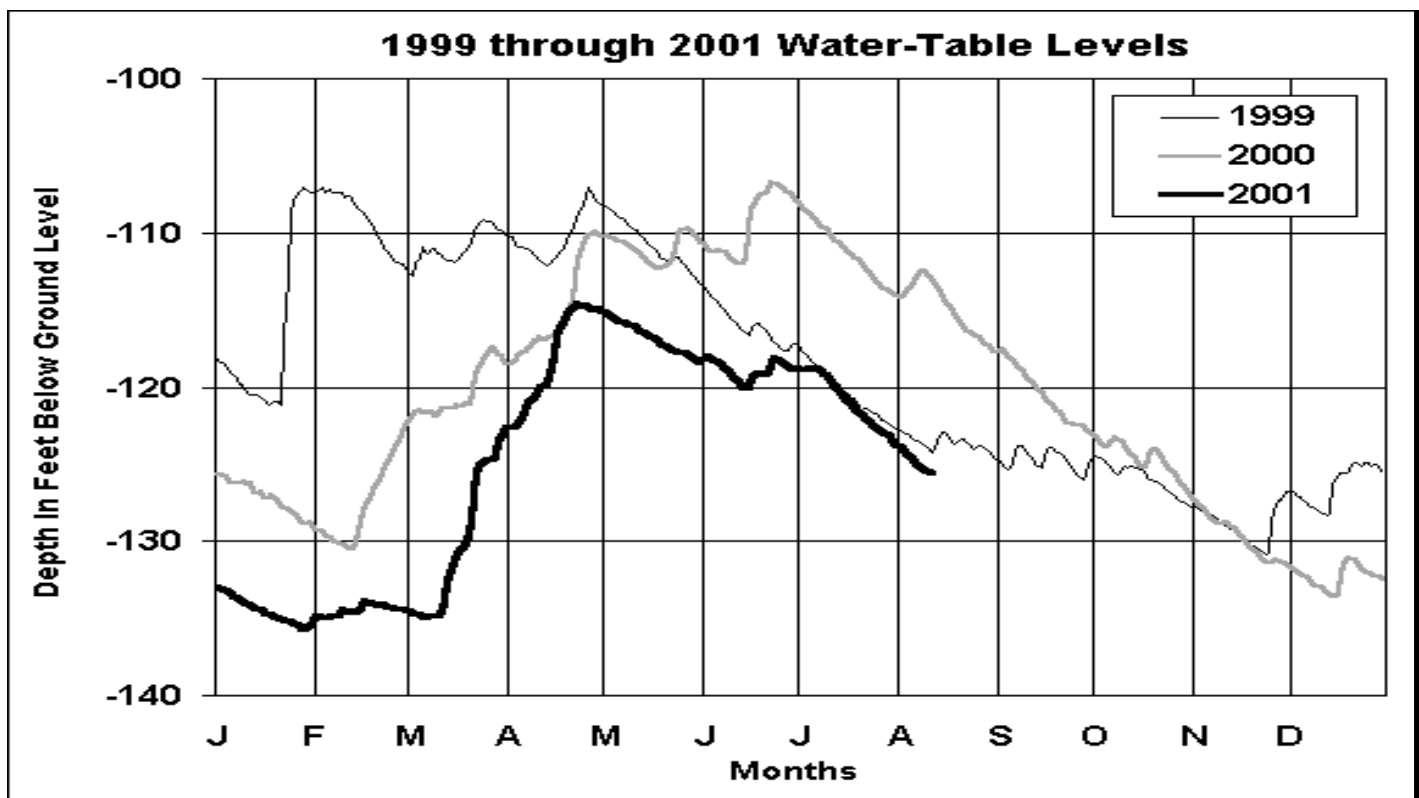
The graph shows that the water-table levels in the State College area are more than 3 feet lower today than they were on this date in 1999 during the Drought Emergency. These very low water-table levels have caused the larger streams to set new low flow records, and some tributary streams near State College have gone dry. Centre County well drillers are very busy deepening farm and residential wells, and setting pumps deeper. Bellefonte Borough has issued mandatory water use restrictions for the customers on their public water system that has Big Spring as its source.

For more information on the drought watch, and to see a map of the 23 affected counties, go to the PGWA Web site at [www.pgwa.org](http://www.pgwa.org).

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## Early Bird Registration Form

2002 PGWA Annual Conference • Penn Stater Hotel • State College (see write-up on page 8)

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Name

\_\_\_\_\_  
Company

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State, Zip Code

\_\_\_\_\_  
Telephone                      FAX

\_\_\_\_\_  
Spouse (if attending)

### **Pre-Registration for Non-members** *(Walk-in Non-members \$25 additional)* & **Walk-in Members**

First Non-member @ \$125	\$ _____
____ Additional individuals @ \$75	\$ _____
____ Friday night banquet @\$30	\$ _____

### **Student Registration**

____ Student registrations @ \$30	\$ _____
____ Friday night banquet @ \$30	\$ _____

### **Names of additional persons to be registered and their spouses (if attending):**

_____ Name	_____ Spouse (if attending)
_____ Name	_____ Spouse (if attending)
_____ Name	_____ Spouse (if attending)
_____ Name	_____ Spouse (if attending)

Number of persons taking Certification exams	_____
Number of persons taking Master Well Driller Exam	_____
Number of persons participating in Ladies Program	_____

**Please make check payable to Pennsylvania Ground Water Association, Inc. and mail to:**

**PGWA  
c/o Jodi Snyder  
7 Long Lane Drive •  
Hummelstown, PA 17036  
or FAX to (717) 566-4587 (phone also)**

*Watch the next newsletter for the Conference Schedule.*

### **Pre-Registration for Members** *(Walk-ins \$25 additional)*

First Member @ \$100	\$ _____
____ additional individuals @ \$50	\$ _____
____ Friday night banquet @ \$30	\$ _____

# Attention PGWA Manufacturers and Suppliers!

You're cordially invited to participate in the 2002 PGWA Annual Conference as a Sponsor and Exhibitor. The Conference will be held at the Penn Stater Conference Center January 24, 25, and 26, 2002. This is a very popular and well-attended affair. We are very excited that we will be moving to a larger facility this year.

A reception will be held on Thursday evening, January 24. **The cost of the demonstration tables below includes the reception sponsorship.** It does not include Conference Registration (*see registration form*). Reception sponsorship without a display table is \$115.

Again this year we have arranged to have permanent tables available. You may choose to reserve more than one table (or the equivalent double or triple space without an extra table), if your exhibit is large.

During the Reception on Thursday evening, food and the open bars will be located in the exhibit area. Other breaks will also be set up in the exhibit area..

No pictures, posters, or any other signs may be fastened to the walls of the rooms, so use poster boards that will lean against the wall or stand on the back of your table. Each display and demonstration table is six feet wide and 30 inches deep. If you will need more space, then rent two or three adjacent tables, as stated above.

The cost for **display tables** is \$200 each. Each of these rental costs includes a \$75.00 contribu-

tion for the food and open bars. Tables will be assigned on a first-come, first-assigned basis. Everyone attending must also be registered for the Conference (*see form*).

Setup for the tables begins at 9:00 a.m. on Thursday, January 24,

2002, and tear down begins at 5:00 p.m. on Friday, January 25, 2002.

Please contact *Jodi Snyder* at (717) 566-4587 if you have any questions. Use the Sponsor/Display Form below to register today! A detailed conference schedule will be provided in the next newsletter.



## Exhibitor/Sponsor Registration Form

(please complete Registration Form on Page 8 and include with your form)

Company Name \_\_\_\_\_

Contact Name \_\_\_\_\_

Title \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Telephone \_\_\_\_\_ FAX \_\_\_\_\_

- I would like to Sponsor the Thursday Reception @\$115 \$ \_\_\_\_\_
- I would like to rent an in room display table @ \$200 \$ \_\_\_\_\_  
(includes Sponsorship)
- I am registering the following individuals to staff the booth (*each individual must be registered!*)
  - Person #1 (\$100) \_\_\_\_\_ \$ \_\_\_\_\_
  - Person #2 (\$50) \_\_\_\_\_ \$ \_\_\_\_\_
  - Person #3 (\$50) \_\_\_\_\_ \$ \_\_\_\_\_
  - Person #4 (\$50) \_\_\_\_\_ \$ \_\_\_\_\_
- I need electricity for my booth. A \$35 charge will be necessary to reserve electric. The hotel will provide a separate form for ordering electric.

Please make check payable to: Pennsylvania Ground Water Association  
c/o 7 Long Lane Drive  
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*Please call Jodi Snyder - (717) 566-4587 if you have any questions.*

## *A floor plan will be provided in the coming months!*

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## 2002 Winter Meeting to be at the Penn Stater Conference Center Hotel

Mark your calendars for January 24-27, 2002! Our Annual Conference will be held at the Penn Stater Conference Center Hotel in State College. We have outgrown both the hotel and the conference area at Toftrees, and the Penn Stater will provide all the sleeping rooms, meeting rooms, and display hall space that we will need.

The Penn Stater Conference Hotel is located on the Penn State University Campus, in the Research Park, which is one exit east of the Toftrees exit on the State College bypass. The hotel has 150 sleeping rooms available, including 6 suites. An indoor swimming pool, whirlpool, and sauna are available to all guests. The Gardens Restaurant serves breakfast, lunch, and dinner, and casual dining is available at the Legends Pub.

There is a gift shop and a fitness center, and a free shuttle van to anywhere on campus.

The display hall has a 22-foot high ceiling and will accommodate more than 50 display tables. Manufacturers and Suppliers will be able to sign up for a double or a triple table space (see page 7), which could accommodate a pickup truck. Loading and unloading is at the door of the display hall. The reception will be held in the display hall, so all displays, food tables, and bars will be in the same spacious hall.

The PGWA Annual Winter Conference will be held on January 24, 25, and 26, 2002. We hope to see you there!

Use the Early Bird Registration form on page 6 to register today. Watch the next newsletter for the Conference Schedule.

## Make Your Room Reservation Today!

It's not too early to make your sleeping room reservation for the PGWA Annual Conference. The Penn Stater has a block of sleeping rooms for Conference attendees at a rate of \$73 per room, per night for single or double occupancy. The Conference runs from Thursday afternoon (January 24) to Friday, and ends with the banquet Friday night. So, if you are staying for the banquet or the certification exams, you may wish to stay over Friday as well. The certification exams occur on Saturday.

**Call (800) 233-7505 to make your reservation today!** Notify the Penn Stater that you are with the *PA Ground Water Association*.

# Cold Weather & Submersibles

*reprinted from Franklin Aid, with permission from Franklin Electric*

As we begin our 18th year of Franklin Aid, we would like to ask for your help. In some publishing circles, it is said that every year 10% of a readership either changes addresses or employment status. Franklin Electric has not formally updated our mailing list since 1989. If the publishers are correct, we should have had 100% turnover of our readership! Now we know that hasn't happened, but if you are receiving duplicate mailings, copies for someone no longer in need, or envelopes with misspelled or incorrect addresses please call us on the Hotline and let us know.

## Submersible Motors

Franklin Electric submersible motors for use in standard water well applications are filled with a water-based mixture. This mixture is used to lubricate the motor's internal bearing system. Franklin's 4-inch motor line is filled with a combination of 90% de-ionized water and 10% food-grade antifreeze called Propylene Glycol. Franklin's 6-inch and 8-inch motors are filled with a 50/50 mixture.

Propylene Glycol is and has been used in pharmaceuticals, ice cream, make-up, and soft drinks. **Propylene Glycol is not car antifreeze. Car antifreeze is Ethylene Glycol, which is highly poisonous and must never be used in a well with potable water.**

Using the water/Propylene Glycol mixture does two things for the motor. First it keeps the motor from freezing during storage. Second, it increases the lubricating properties of the water. The increased lubricity helps maintain longer bearing life.

With the factory-installed fill solution, our submersible motors are kept from freeze damage in temperatures as low as -40 degrees F (-40 degrees C). However, as the temperature drops below 27degrees F (-3 degrees C) the fill solution will begin to turn to slush and the shaft may no longer turn. But remember, no damage to the motor should occur with the factory-installed, **undiluted** fill solution.

Franklin Electric submersible motors designed for use in fresh water are also designed with the ability to pull water from

the well into the motor should the level inside the motor drop. This is done through a filter and check valve assembly located in the top of the motor. On 4-inch motors, this assembly is located under the top stainless steel cover. On 6- & 8-inch motors, this assembly is located on the side of the top end bell or casting. The filter portion is inside the white plastic plug seen on the side of our larger motors.

During operation of the motor, the normal heating that takes place causes the fill solution to expand. The diaphragm in the motor will accept most of this expansion, although some of the fill solution may pass out of the motor around the seal. After the motor is turned off and has cooled, the check valve can open to allow any necessary filtered water back into the motor. How fast this exchange occurs and how often it occurs depends on run times, frequency of starts, and other factors surrounding the operation of the pumping system.

The filter/check valve assembly is only seen on fresh water or water well motors. On corrosion resistant Ni-Resist and 316 Stainless Steel motors, the filter is replaced with a sealed pipe plug. This is done because the typical environment for a corrosion resistant motor is in water you do not want inside the motor. That is, this water is normally very aggressive and could cause internal damage.

Based on normal operation of a check valve, keep in mind that a water well motor that has been in service for any amount of time may not have proper freeze protection. If you have to pull one and are working outside in freezing temperatures, store the motor indoors or in the cab of your truck until it is installed again. Also remember new motors stored in cold

temperatures or transported to job sites in the back of a truck may have shafts which are hard to turn. Once installed, the 50 degree F (10 degrees C) water typically found in the well will thaw the motor, but remember it won't happen immediately. The best solution is to store motors in areas where they won't freeze.

If you are working with fountains, another option for winter storage is to sink or weight the motor to the bottom of the pond. If you do this, just be sure to place the motor below the freeze level.

## Control Boxes

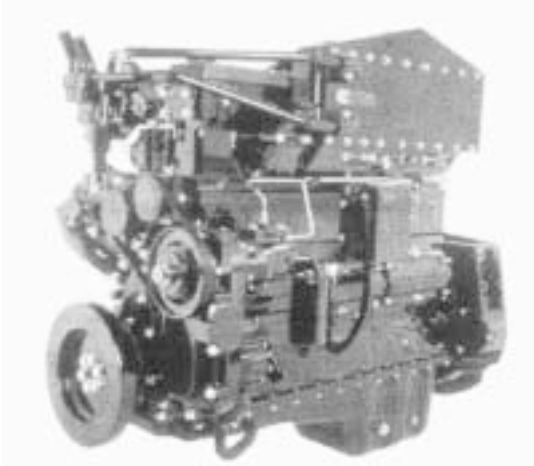
Franklin single-phase control boxes are designed to operate in outdoor installations. However, when the control box is mounted in an extremely cold location, you may experience a reduction in motor starting torque. This is due to the effect cold temperature has on an electrolytic starting capacitor. As the outside temperature drops below 14 degrees F (-10 degrees C) the capacitor begins to lose the ability to start the motor. If the outside temperature drops to -25 degrees F (-32 degrees C), the motor's starting torque drops about 20%. At -40 degrees F (-40 degrees C), the starting torque drops approximately 65% and at -80 degrees F (-62 degrees C), the starting torque drops almost 100%.

If the control box is to be mounted where the temperature may fall below 14 degrees F (-10 degrees C), it is recommended an enclosure be built around the control box. In addition, we recommend using a small light bulb or heat tape to warm the enclosure. Without proper starting torque--because of cold weather or otherwise--motor overloads may trip and you may not get water to the surface.

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further sediment removal. For medium and high-capacity wells with flows that exceed 25 gallons per minute, a sump pit is constructed, and then the settled water can be directed or pumped through a filter bag.

When a stream is nearby and will be impacted by cuttings without the use of adequate erosion and sediment (E&S) control measures, you can contact your county Conservation District for assistance. They have an E&S Manual containing several methods for E&S control, and they will assist you in selecting and adapting the best method to fit your site. Control of pumping test discharge water is especially important when you are going to be running a 48-hour pumping test on a high capacity well. High flows of clear water can erode the stream banks where the flow enters the stream channel and causes sediment impacts on the stream. This fact sheet addresses how to manage pumping test discharge water to avoid sediment pollution.

This new fact sheet is available on the PGWA Web site at [www.pgwa.org](http://www.pgwa.org). Click on the *new fact sheet* link on the home page. You will be able to read the fact sheet on-line, and you can also print your own copy.

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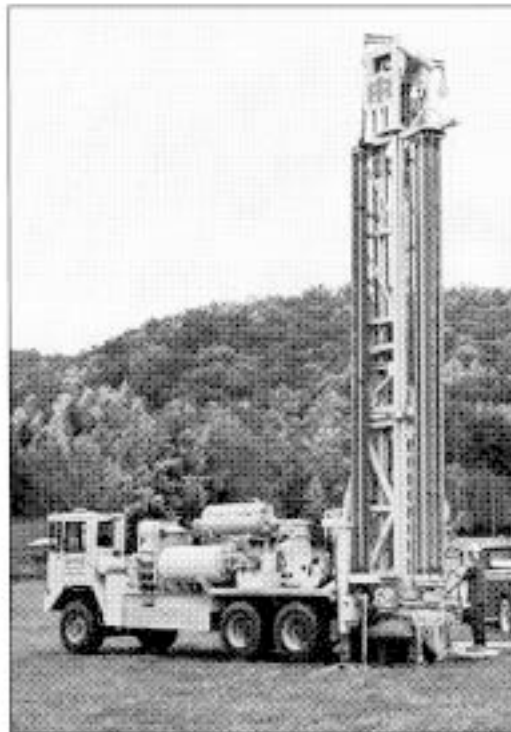
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# PGWA Membership

Have you paid your PGWA dues? In order to continue to receive this newsletter and the many other benefits of membership, please make sure your dues are current. Remember, paying your dues (\$75 for drillers, \$65 for manufacturers and suppliers) entitles you to use of the Pennsylvania One Call System - free of charge!

If you need another copy of your invoice, please call Jodi Snyder at (717) 566-4587, or complete another application to the right and enclose payment.

**Thanks for your support!**

## Membership Application - PGWA

- Contractor - \$75
- Associate - \$30
- Pump Installer - \$75
- Manufacturer and Supplier - \$65
- Technical/Scientific - \$65

To the PGWA Board of Directors:

I hereby apply for membership in the Pennsylvania Ground Water Association and, if approved, agree to support the objectives of the Association and to pay the prescribed membership dues.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Name \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Telephone \_\_\_\_\_

FAX \_\_\_\_\_

**Mail to: PGWA, c/o 7 Long Lane Dr., Hummelstown, PA 17036**



**Pennsylvania Ground Water Association**  
c/o 7 Long Lane Drive  
Hummelstown, PA 17036

**Return Service Requested**