

# Irrigation Water

## Sample Submission Form for Greenhouses and Nurseries

## Agricultural Analytical Services Laboratory

Your name and contact information:

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Additional individual, if any, to receive copy of results:

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

- Hard-copy report required:** If email addresses are listed, the lab will automatically email the lab report. Check this box if you require a hard-copy and include \$2 for postage and handling.

### Sample Information

Sample identification: \_\_\_\_\_ Date sampled: \_\_\_\_\_

(Identification for your own use to be printed on report)

What is the intended water use?

- Greenhouse       Nursery       Other: \_\_\_\_\_

What is your water source?

- Lake or pond       Public water supply       Effluent or recycled

Private well (please specify depth): \_\_\_\_\_ ft.

Other (please specify): \_\_\_\_\_

Please specify if your water is untreated or treated with any of the following (check all that apply):

- Untreated       Acidification       Sterilization       Sand filter       Other: \_\_\_\_\_

If water is used for fertigation, please specify injector type and ratio:

- Venturi type (e.g., Horzon, Syphonex)  
 Piston type (e.g., Dosatron, DosMatic, Anderson, Smith, Gewa)  
 1:100       1:200       Other: \_\_\_\_\_

### Analysis Request (See back of this form for test descriptions)

#### TEST PACKAGES

- WH01    Basic      \$40.00  
 WH02    Complete      \$60.00

#### INDIVIDUAL TESTS

- |                                                               |         |                                           |         |
|---------------------------------------------------------------|---------|-------------------------------------------|---------|
| <input type="checkbox"/> Alkalinity, Carbonates, Bicarbonates | \$20.00 | <input type="checkbox"/> Hardness         | \$20.00 |
| <input type="checkbox"/> Ammonium Nitrogen                    | \$15.00 | <input type="checkbox"/> Nitrate-Nitrogen | \$15.00 |
| <input type="checkbox"/> Chloride                             | \$15.00 | <input type="checkbox"/> pH               | \$15.00 |
| <input type="checkbox"/> Conductivity/Total Dissolved Solids  | \$15.00 | <input type="checkbox"/> Sulfur           | \$15.00 |
| <input type="checkbox"/> Fluoride                             | \$20.00 |                                           |         |

Total cost of test(s) selected: \$ \_\_\_\_\_

### Sample Receipt (lab use only)

# of containers: \_\_\_\_\_ Container(s) in good condition? \_\_\_\_\_ Sample cooled or on ice? \_\_\_\_\_ Ice melted: \_\_\_\_\_ Temp °C: \_\_\_\_\_ Data entry \_\_\_\_\_  
Y or N

### Sample Payment

- Check enclosed. (Make check payable to **Penn State University**)       Charge my credit card.  
Cardholder's name (please print): \_\_\_\_\_ Card number: \_\_\_\_\_  
Cardholder's signature: \_\_\_\_\_ Expiration date: \_\_\_\_\_

## Irrigation Water Test Packages

ID	Package	Description	Tests Included	Cost
WH01	Basic Package	Includes basic tests for assessing irrigation water quality and for trouble-shooting irrigation water problems	pH, total alkalinity, carbonates, bicarbonates, electrical conductivity, total dissolved solids, boron, chloride, calcium, magnesium, sodium, hardness, sodium absorption ratio	\$40.00
WH02	Complete Package	Includes tests from basic package plus fertilizer nutrients. Use for evaluation of fertigation, recirculating irrigation, and greenhouse or nursery wastewater. Also appropriate for troubleshooting irrigation and fertigation water and plant nutrition problems.	pH, total alkalinity, carbonates, bicarbonates, electrical conductivity, total dissolved solids, boron, chloride, calcium, magnesium, sodium, hardness, sodium absorption ratio, nitrate-nitrogen, ammonium nitrogen, phosphorus, potassium, sulfur, iron, manganese, copper, molybdenum, and zinc	\$60.00

### HOW TO USE YOUR IRRIGATION WATER TEST KIT

Before taking your water sample(s), please read all instructions carefully.

1. **TAKE YOUR WATER SAMPLE:** It is important that the sample you submit to the laboratory be representative of your irrigation water supply. Collect your sample as close to the point of end use as possible. Prior to collection, allow water to run for a sufficient period of time to clean out standing water in the lines. Fill the bottle provided in the Water Test Kit and cap tightly. If you are sending a sample in your own container, use a clean, plastic container (approximately ½ quart or 2 cups required) and rinse three times with irrigation water prior to filling. If you are testing your water in order to diagnose a specific problem, special sampling procedures may be warranted. Contact the laboratory or your cooperative county extension office.
2. **PACKAGE YOUR SAMPLE BOTTLE** in the bubble wrap sleeve that came with the water test kit and place it in the white mailing box.
3. **COMPLETE THE SUBMISSION FORM AND SUBMIT PAYMENT** for the test(s) you requested. If you are submitting a sample for Nurseries or Greenhouses, complete the submission form. If you are submitting a sample for Turf Irrigation, complete the submission form. Checks should be made payable to Penn State University. Place the completed submission form and payment in the box with the sample.
4. **CLOSE THE SAMPLE TEST KIT AND SEAL WITH TAPE.** Store your sample in the refrigerator until you are ready to send to the laboratory.
5. **SEND YOUR SAMPLE** to the laboratory so that it arrives within 36 to 48 hours of sampling. It is preferable to send your sample to the laboratory early in the week rather than later so that delivery will not be delayed over the weekend. Mail your sample to:

The Pennsylvania State University  
720 Tower Rd.  
University Park, PA 16802

**extension.psu.edu**

For additional information, visit [extension.psu.edu/water](http://extension.psu.edu/water) or contact the lab.

Penn State College of Agricultural Sciences research and extension programs are funded in part by Pennsylvania counties, the Commonwealth of Pennsylvania, and the U.S. Department of Agriculture.

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