



OEPA Certification No. 4063  
 IDEM Certification No. C-OH-05

File No.: \_\_\_\_\_

Lab Sample No.: \_\_\_\_\_

**ALL INFORMATION IN THE BOX BELOW MUST BE COMPLETED  
 OR THE SAMPLE CANNOT BE ANALYZED**

<b>PUBLIC WATER SYSTEM INFORMATION:</b>	<b>SAMPLE INFORMATION:</b>
PWS Name: _____	Sample Monitoring Point: _____
PWSID #: _____	Sample Collection Date: _____ Time: _____
State Facility #: _____	Sample Purpose: <input type="radio"/> Compliance <input type="radio"/> Resample <input type="radio"/> New Well
Address: _____	<input type="radio"/> Other (explain): _____
_____	Sample Collected by: _____
County: _____	Sample Location Description: _____
Contact Person: _____	FAX? <input type="radio"/> Yes <input type="radio"/> No
Contact Phone: _____	Fax Number: _____
CONTACT FAX: _____	
<b>These analysis results will be Reported to either OEPA or IDEM</b>	

Analyses to be performed:

MCL Inorganics (Pkg)\*

- |                                  |  |                                      |
|----------------------------------|--|--------------------------------------|
| <input type="radio"/> Antimony*  | <input type="radio"/> Manganese                            | <input type="radio"/> Nitrate (as N) |
| <input type="radio"/> Arsenic*   | <input type="radio"/> Copper                               | <input type="radio"/> Sulfate        |
| <input type="radio"/> Barium*    | <input type="radio"/> Iron                                 |                                      |
| <input type="radio"/> Beryllium* | <input type="radio"/> Lead                                 |                                      |
| <input type="radio"/> Cadmium*   | <input type="radio"/> Silver                               |                                      |
| <input type="radio"/> Chromium*  | <input type="radio"/> Zinc                                 |                                      |
| <input type="radio"/> Mercury*   | <input type="radio"/> Alkalinity                           |                                      |
| <input type="radio"/> Nickel*    | <input type="radio"/> Chloride                             |                                      |
| <input type="radio"/> Selenium*  | <input type="radio"/> PO4                                  |                                      |
| <input type="radio"/> Thallium*  | <input type="radio"/> Lead & Copper Rule                   |                                      |
| <input type="radio"/> Fluoride*  |  |                                      |
| <input type="radio"/> Cyanide*   | <input type="radio"/> SOC's (please use back side of page) |                                      |

**NOTE: For all drinking waters - please make sure there is not a *strong* chlorine smell present in the sample or resampling may be requested. Flush water for at least 15 minutes before sampling.**

**SHORT HOLDING TIMES:**  
 pH - ASAP  
 Nitrite (as N) - 48 hours

VOC's - **please make sure to read sampling instructions**

\* Included in pkg

Other \_\_\_\_\_

Date Received: _____	Time: _____
<b>FOR LAB USE ONLY:</b>	
pH: Metals _____	CN _____
NO3 _____	Temp _____

Brookside Laboratories, Inc.  
Environmental & Industrial Division  
200 White Mountain Drive.  
New Bremen, OH 45869

Tel: (419) 977-2766 Fax: (419) 977-2767

## SOC ORDER FORM

Please check (✓) the synthetic organic compound(s) to be analyzed.

<u>GROUP</u>	<u>COMPOUND</u>	<u>GROUP</u>	<u>COMPOUND</u>
	<u>Method 525.2</u>		<u>Method 508</u>
<input type="checkbox"/>	A Alachlor	<input type="checkbox"/>	C Chlordane
<input type="checkbox"/>	A Aldrin	<input type="checkbox"/>	C Endrin
<input type="checkbox"/>	A Atrazine	<input type="checkbox"/>	C Heptachlor
<input type="checkbox"/>	A Benzo(a)pyrene	<input type="checkbox"/>	C Heptachlor Epoxide
<input type="checkbox"/>	A Butachlor	<input type="checkbox"/>	C Lindane
<input type="checkbox"/>	A Dieldrin	<input type="checkbox"/>	C PCB's (screen)
<input type="checkbox"/>	A Hexachlorobenzene		<u>Method 515.1</u>
<input type="checkbox"/>	A Hexachloropentadiene	<input type="checkbox"/>	E Dalapon
<input type="checkbox"/>	A Methoxychlor	<input type="checkbox"/>	E Dicamba
<input type="checkbox"/>	A Metolachlor	<input type="checkbox"/>	E 2,4-D
<input type="checkbox"/>	A Metribuzin	<input type="checkbox"/>	E Dinoseb
<input type="checkbox"/>	A Propachlor	<input type="checkbox"/>	E Pentachlorophenol
<input type="checkbox"/>	A Simazine	<input type="checkbox"/>	E Picloram
	<u>Method 531.1</u>	<input type="checkbox"/>	E 2,4,5-TP (Silvex)
<input type="checkbox"/>	B Aldicarb		<u>Method 504.1</u>
<input type="checkbox"/>	B Aldicarb Sulfone	<input type="checkbox"/>	F Dibromochloropropane (DBCP)
<input type="checkbox"/>	B Aldicarb Sulfoxide	<input type="checkbox"/>	F Ethylene Dibromide (EDB)
<input type="checkbox"/>	B Carbaryl		<u>Method 525.2</u>
<input type="checkbox"/>	B Carbofuran	<input type="checkbox"/>	G Di (2-Ethylhexyl) Adipate
<input type="checkbox"/>	B 3-Hydroxycarbofuran	<input type="checkbox"/>	G Di (2-Ethylhexyl) Phthalate
<input type="checkbox"/>	B Methomyl		<u>Method 549.2</u>
<input type="checkbox"/>	B Oxamyl (Vydate)	<input type="checkbox"/>	H Diquat
	<u>Method 508A</u>		<u>Method 548.1</u>
<input type="checkbox"/>	K Polychlorinated Biphenyls (PCB's)	<input type="checkbox"/>	I Endothall
			<u>Method 547</u>
<input type="checkbox"/>	L 2,3,4,8-TCDD (Dioxin)	<input type="checkbox"/>	J Glyphosate

## INSTRUCTIONS FOR COLLECTION OF DRINKING WATER SAMPLES

The required bottles are supplied by the lab and contain the appropriate preservatives for each analysis. (Be careful not to rinse out preservative.) Collect samples at point indicated by the EPA, following the sampling instructions and send to: **Brookside Laboratories, Inc., 200 White Mountain Drive., New Bremen, OH 45869.** Please mark **ATTENTION: Environmental Lab.**

### INORGANICS

#### 1. Sample Containers and Preservatives

Analysis	Container	Preservative
<b>Metals</b>	One 1000 ml plastic bottle	5 ml of 1:1 HNO <sub>3</sub>
<b>Fluoride and/or Nitrite</b>	One 250 ml plastic bottle	None
<b>Cyanide</b>	One 1000 ml plastic bottle	7.5 ml of 12N NaOH
<b>Nitrate</b>	One 250 ml plastic bottle	2.5 ml of 20% (v/v) H <sub>2</sub> SO <sub>4</sub>
<b>Sulfate</b>	One 500 ml plastic bottle	None
<b>Asbestos</b>	Two 1000 ml plastic bottles	frozen ice pack

#### 2. Sampling Procedure

Begin sample collection after you have made sure that the sample is representative of the water source. Flush sampling taps for at least 10 minutes before filling sample bottle. When sampling a well, clean the system by pumping long enough to purge the casing and drop-pipe so it is free of sediment, rust and particles that may have accumulated. When system is purged clean, fill the bottles with water.

#### 3. Sampling Procedure for Lead and Copper in Tap Water

Sample must be collected from cold water taps that are typically used for water consumption. The water must be kept unused in the plumbing for 6 to 8 hours before sampling. Do not flush or flame the tap. Each sample must be collected in a 1000 ml sample container.

### VOLATILE ORGANIC COMPOUNDS

#### 1. Sample Containers and Preservatives

Analysis	Container	Preservative
VOC's/THM's	Three 40 ml glass vials	25 mg of ascorbic acid 6 drops of 1:1 HCl

#### 2. Sampling Procedure

Begin sample collection after you have made sure that the sample is representative of the water source. Flush sampling taps at least 10 minutes before filling the sample vials.

## VOLATILE ORGANIC COMPOUNDS (Cont'd)

Adjust flow to a slow, steady stream. Hold vial at an angle to help prevent aerating while filling the vial. Fill vial half way, add 6 drops of 1:1 HCl then resume filling the vial until a curved meniscus is observed over bottle rim. Float septum-cap with the teflon (shiny side down) on the liquid and carefully screw on snug, but do not overtighten.

Check for air bubbles by turning vial upside down. If bubbles are present, remove cap, add some more sample and recap. Repeat until the bottle is filled without any trapped air bubbles inside. **Again, PLEASE MAKE SURE THERE ARE NO AIR BUBBLES AND THAT VIALS ARE COMPLETELY FULL - AND PLEASE DO NOT OPEN TRIP BLANK VIALS. THE TRIP BLANK VIALS MUST REMAIN CLOSED UNTIL ANALYSIS.**

## SYNTHETIC ORGANIC COMPOUNDS (SOC's)

The Ohio EPA has grouped the Synthetic Organic Compounds (SOC') to be monitored under Phase II, Phase V rules on drinking water into 12 groups as follows:

<u>EPA</u>			<u>EPA</u>										
<u>Group</u>	<u>Method</u>	<u>Compound</u>	<u>Group</u>	<u>Method</u>	<u>Compound</u>								
A	525.2	Alachlor	D	550.1	Benzo-A-Pyrene								
		Atrazine			E	515.1	Dalapon						
		Butachlor					Dicamba						
		Metalachlor					2,4-D						
		Metribuzin					Dinoseb						
		Propachlor					Pentachlorophenol						
Simazine	Picloram												
B	531.1	Aldicarb			F	504.1	Dibromochloropropane (DBCP)						
		Aldicarb Sulfone					Ethylenedibromide (EDB)						
		Aldicarb Sulfoxide					G	525.2	Di (2-Ethylhexyl) Adipate				
		Carbaryl							Di (2-Ethylhexyl) Phthalate				
		Carbofuran							H	549.1	Diquat		
		3-Hydroxycarbofuran	I	548.1							Endothall		
Methomyl	J	547			Glyphosate								
Oxamyl (Vydate)					K	508 A					Polychlorinatd Biphenyls (PCBs)		
C							508	Aldrin			L	1613	2,3,4,8-TCDD (Dioxin)
								Chlordane					
								Dieldrin					
			Endrin										
	Heptachlor												
	Heptachlor Epoxide												
Hexachlorobenzene													
Hexachlorocyclopentadiene													
Lindane													
Methoxychlor													
Toxaphene													

## 1. Sample Containers and Preservatives

### SOC GROUP

Test Group	EPA Method	Container	Preservative in Container	Preservative to be added after sample collection
A	525.2	1 1000 ml glass bottle	10 ml 5% Na <sub>2</sub> SO <sub>3</sub>	3 mls of 1:1 HCl
B	531.1	2 40 ml glass vials	To each vial: 0.2 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> plus 1.5 ml of mono chloroacetic acid buffer	NONE
C or K	508	1 1000 ml glass bottle	2 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NONE
C + K	508	2 1000 ml glass bottle	2 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NONE
K	508 A	1 1000 ml glass bottle	NONE	NONE
D	550.1	1 1000 ml amber glass bottle	2 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	2 ml of 1:1 HCl
E	515.1	2 1000 ml amber glass bottle	2 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NONE
F	504.1	Two 40 ml glass vials	0.2 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	2 drops of 1:1 HCl
G	525.2	1 1000 ml glass bottle	10 ml 5% Na <sub>2</sub> SO <sub>3</sub>	3 ml of 1:1 HCl
H	549.1	1 1000 ml bottle P.E. plastic (amber)	2 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	1 ml conc H <sub>2</sub> SO <sub>4</sub>
I	548.1	1 1000 ml glass bottle	2 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NONE
J	547	2 40 ml glass vials	To each vial: 0.2 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NONE
L	1613	2 1000 ml amber glass bottle	To each bottle: 2 ml of 10% Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NONE

NOTE: If PCBs are found to be positive by Method 508 (group C) the results must be confirmed and quantitated by method 508 A (group K).

## 2. Sampling Procedure

Begin sample collection after you have made sure that the sample is representative of the water source. Flush sampling taps for at least 10 minutes before filling sample bottle. When sampling a well, clean the system by pumping long enough to purge the casing and drop-pipe so it is free of sediment, rust and particles that may have accumulated. When system is purged clean, fill the bottles with water. After the sample is collected, seal the bottle and shake vigorously for 1 minute.

### SAMPLE SHIPMENT

Immediately after sampling, label bottles and complete the forms supplied with the bottles. Please pack securely in the shipping container provided by the laboratory and promptly deliver or ship samples to the lab. Keep samples cool (store at 4° C until shipped). Try to mail the same day they were collected.

If you have any questions, please contact the laboratory at (419) 977-2766.

Because some of the tests require short holding time, we would like to **receive** the samples **Monday thru Wednesday**. Samples with short holding times will not be accepted one day prior to and including the following holidays: Christmas, New Year's Day, Thanksgiving, Labor Day, Memorial Day, Good Friday, and Independence day. (If you are not certain if the lab is accepting samples, please call - 419-977-2766.)

### CAUTION

Preservatives are either corrosive or toxic, **PLEASE HANDLE WITH CARE!**