



**Entry Point Testing for PWS**  
**Sample Submission Form**

2020 Revision.

Prices effective  
April 1, 2018.

**STATE OF MONTANA ENVIRONMENTAL LABORATORY**

P.O. Box 4369, Helena, MT 59604  
(406) 444-3444, Toll-Free (800) 821-7284

<https://dphhs.mt.gov/publichealth/LaboratoryServices/EnvironmentalLaboratory>

**Sampling from Entry Points Only.**

Test information and collection instructions are provided on the back of this form.

**Sample Information**

PWS #:		
System Name:		
Sample ID (EP#, Well#, etc.):		
Collection Date:	Collection Time:	AM / PM
Collected By:	Phone#:	

**Billing Information**

Send report via: email mail

Account # (G #):	Phone #:
Name of Payee:	
Address:	
Email Results To:	

\*Organics samples will be confirmed to be **at or below 10°C** when they are received at the laboratory (samples may not be frozen); samples received at **higher temperatures may be rejected**. See sample collection instructions for more information. Select desired tests in the boxes to the left.

**Inorganics:**

Test	Description	Lab Use Only
NO <sub>3</sub> + NO <sub>2</sub>	Nitrate + Nitrite, also known as Total Nitrate	NO3 / NO3NO2-IC
NO <sub>2</sub>	Nitrite, one time only	NO2/ NO3NO2-IC
As	Arsenic- community water systems only	As
Phase 2	Barium, Cadmium, Chromium, Fluoride, Mercury, Selenium	P2CdCrSeBa & F-IC & HgTMDL
Phase 5	Antimony, Beryllium, Nickel, Thallium	Phase 5 Metals

**Organics:**

Test	Description	Lab Use Only
<u>SOCs</u> - EPA 515.4	Chlorinated Acid Herbicides	515
<u>SOCs</u> - EPA 525.2	Organic Compounds (Semi-Volatile) & Organohalide Pesticides	525 SOC ALL
<u>SOCs</u> - EPA 531.2	Carbamate Pesticides	531
<u>VOCs</u> - EPA 524.2	Volatile Organic Compounds	524

**Radiologicals:**

Test	Description	Lab Use Only
RADS	Gross Alpha	DWRAD1
RADS	Combined Radium 226 & 228	RAD_COMB

**Waiver:**

Test	Description	Lab Use Only
Cyanide	Cyanide in drinking water- ME 355.1	CN
Endothall	Endothall- EPA 548	548-Endothall
EDB/DBCP	1,2-dibromomethane (EDB) & 1,2-dibromo-3-chloropropane (DBCP)	504- EDB/DBCP
Glyphosate	Glyphosate in drinking water- EPA 547	547-Glyphosate
Diquat	Diquat- EPA 549	549-Diquat

**Other Test:**

<b>Lab #:</b>
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**THIS PAGE FOR LABORATORY USE ONLY**

**FOR LABORATORY USE ONLY**

**Payment Received**

Amount: \_\_\_\_\_

Check#: \_\_\_\_\_

Check date: \_\_\_\_\_

Payer: \_\_\_\_\_

Received by: \_\_\_\_\_

Date /Time Received: \_\_\_\_\_ @ \_\_\_\_\_

Received By: \_\_\_\_\_

Reviewed By: \_\_\_\_\_

Login Review: \_\_\_\_\_

Sample Temperature: \_\_\_\_\_

Sample Conductivity: \_\_\_\_\_

Sample Turbidity: \_\_\_\_\_

Delivery:

Walk in    Courier    USPS    UPS    FedEx

**Number of Bottles Received:**

Nutrients	Ions	Metals	525/508	515	531	VOC	Rads	Cyanide	548	504	547	549

Holding Times Observed?	Y	N
- Under 48 hours for IC?	Y	N NA
Sample containers in acceptable condition?	Y	N
Sufficient sample volume for all tests?	Y	N
Chain of Custody level:	1	2 3
- Chain of Custody intact?	Y	N
VOC zero headspace?	Y	N NA

**SPLITS: (mL)**

Lachat:      50      250  
 IC:            50      250  
 Metals:      50      250

**pH Check:**

	<b><u>Preserved in?</u></b>	<b><u>Preserved with?</u></b>
Nutrients:	L    F	H <sub>2</sub> SO <sub>4</sub>
Metals:	L    F	HNO <sub>3</sub>
525:	L    F	HCl
Rads:	L    F	HNO <sub>3</sub>

**Comments:**

**Lab number:**

# COLLECTION INSTRUCTIONS

## General Instructions

1. Freeze the ice packs overnight before sampling. Make sure they freeze flat.
2. Inorganics and Radiological samples are collected in plastic bottles.
3. Amber glass bottles and glass vials for organics samples contain preservatives. **Do not rinse them out.**
4. Samples are collected from the **entry point**(s). If none is available, take samples from an indoor, cold water tap (do not take samples from a hose).
5. Remove the aerator, and allow the water to run for 5 to 10 minutes or longer before sampling.
6. Using a waterproof marker, label each bottle with PWS#, Sample ID or Entry Point number, and collection date/time.

## SOCs, Diquat, Glyphosate, Endothall

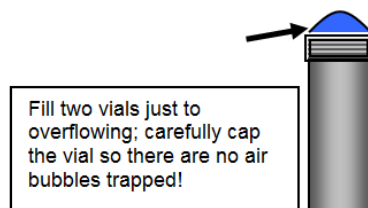
515, 525, 548 samples are each collected in **amber glass bottles**, and 531 & 547 samples are each collected in two **40mL clear glass vials**. Diquat is collected in an amber plastic bottle.

1. Fill the amber bottles full to the neck and cap tightly. Invert the bottles several times to mix the preservative.
2. Fill the two 531 or 547 glass vials and cap tightly. (Air bubbles are okay for these samples.)

## Volatile Organic Compounds

VOCs (524) & EDB/DBCP (504) are each collected in three 40mL clear glass vials.

1. One vial has water in it already; this is a "trip blank" and **must not be opened**.
2. Fill the other two empty vials just to overflowing, being careful not to flush out the preservative.
3. Cap both bottles tightly, making sure the Teflon side of the cap liner faces toward the sample. Shake the samples vigorously for one minute. Invert the vials and observe if any air bubbles are trapped in it; bubbles will invalidate the sample. If you observe bubbles, uncap the vial and fill with a few more drops of water, cap and recheck for air bubbles until none are apparent.



## GETTING THE SAMPLES TO THE LAB

- Any carrier (Postal Service priority mail, UPS, Federal Express, or bus)
- Laboratory Courier Service (pick-up Monday through Friday, see our website for more information: <http://dphhs.mt.gov/publichealth/LaboratoryServices/CourierRoutesSampleDelivery>). Please call the lab if you plan to use the courier service so we can inform them where they will need to pick up water samples.
- Hand delivery to to the Laboratory's Main Office, Room B206 in the Cogswell Building, 1400 E. Broadway, Helena.

Samples should be **chilled to about 4°C** when collected and maintained at that temperature until analysis or extraction. Samples must be packaged for shipment with sufficient ice to ensure that they will arrive at the laboratory with a substantial amount of ice remaining in the cooler. If an ice pack is used, it should be frozen at the time of sampling and the sample should be chilled before packing. **Organics samples will be confirmed to be at or below 10°C** when they are received at the laboratory (samples may not be frozen); samples received at higher temperatures may be rejected. If you have any questions, please call 406-444-3444.

**SOC ANALYTES BY  
TEST METHOD**

Test Method	Analyte Code	Analyte Name
515 Chlorinated Acid Herbicides	2031	DALAPON
	2040	PICLORAM
	2041	DINOSEB
	2105	2,4-D
	2110	2,4,5-TP (SILVEX)
	2326	PENTACHLOROPHENOL (PCP)
	2440	DICAMBA
525 Semi-Volatile Compounds & Organo-halide Pesticides	2005	ENDRIN
	2010	BHC-GAMMA (LINDANE)
	2015	METHOXYCHLOR
	2020	TOXAPHENE
	2035	DI(2-ETHYLHEXYL) ADIPATE
	2037	SIMAZINE
	2039	DI(2-ETHYLHEXYL) PHTHALATE
	2042	HEXACHLOROCYCLOPENTADIENE
	2045	METOLACHLOR
	2050	ATRAZINE
	2051	LASSO (ALACHLOR)
	2065	HEPTACHLOR
	2067	HEPTACHLOR EPOXIDE
	2070	DIELDRIN
	2076	BUTACHLOR
	2077	PROPACHLOR
	2274	HEXACHLOROBENZENE
	2306	BENZO(A)PYRENE
	2356	ALDRIN
	2595	METRIBUZIN
2959	CHLORDANE	
531 Carbamate Pesticides	2021	CARBARYL
	2022	METHOMYL
	2036	OXAMYL
	2043	ALDICARB SULFOXIDE
	2044	ALDICARB SULFONE
	2046	CARBOFURAN
	2047	ALDICARB
	2066	3-HYDROXYCARBOFURAN

**WAIVER ANALYTES  
BY TEST METHOD**

Test Method	Analyte Code	Analyte Name
549	2032	DIQUAT
548	2033	ENDOTHALL
547	2034	GLYPHOSATE
504	2946	1,2-DIBROMOETHANE
	2931	1,2-DIBROMO-3-CHLOROPROPANE
355	2036	CYANIDE