

PHASE II NPDES Storm Water Program

Storm water discharges are generated by runoff from land and impervious area such as paved streets, parking lots and building rooftops during rainfall and snow events that often contain pollutions in quantities that could adversely affect water quality. Most storm water discharges are considered point sources and require coverage by an NPDES permit. In December 1999, the EPA published the storm water Phase II final rule in the Federal Register.

The Phase I rules were issued in 1990 and covered medium and large municipal separate storm sewer system (MS4s) cities or jurisdictional entities serving populations over 10,000. Also covered under the Phase I rules are operators of construction activities disturbing more than five acres.

Phase II will extend NPDES storm water requirements to small MS4s and construction activities disturbing more than one acre who are located within an urbanized area that has total population of 50,000 or more and density of 1,000 persons per square mile.

Phase II coverage became mandatory in March 2003. The amount of preliminary work to get permit coverage can be extensive, and those who will be regulated should now begin the process of determining what they need to do to be in compliance when the Phase II storm arrives.

For more information contact, Accurate Environmental Services at 800-516-5227. AES can assist you to in this and other NPDES related field.

The Stage 1 Disinfectants and Disinfection Byproducts Rule

The Stage 1 DBPR applies to all public water systems that add a disinfectant to the drinking water during any part of the treatment process.

Surface water systems and ground water systems under the direct influence of surface water serving **10,000 or more** people were required to comply with the requirements by **January 1, 2002**. All other water systems that disinfect must comply with the requirements by **January 1, 2004**.

The Stage 1 DBPR requires a Step 1 percent removal of total organic carbon (TOC) based upon the source water TOC and source water alkalinity.

The Rule has a Step 2 Alternative TOC Removal Requirement. It is expected that some water treatment plants will not achieve the Step 1 TOC removal requirements because of unique water quality characteristics. Under Step 2 there are procedures for treatability testing to establish an alternative TOC removal requirement specific to that plant.

The Stage 1 DBPR sets MCL limits on total trihalomethanes (TTHM < 0.080 mg/l), Five haloacetic acids (HAA5 < 0.060 mg/l), Bromate < 0.01 mg/l for plants that use ozone, and Chlorite < 1.0 mg/l for plants that use chlorine dioxide. Also, the maximum residual disinfectant levels (MRDL) for chlorine and chloramines is 4.0 mg/l measured as free chlorine. The MRDL for chlorine dioxide is set at 0.8 mg/l.

DBPs can be reduced by removing organic matter before chlorination and by changing the method of disinfection.

Public water systems must evaluate impacts on microbial risk before changing disinfection practices to ensure adequate microbial protection will be maintained. This is accomplished through a process called disinfection profiling and benchmarking. This is also required in the Long Term 1 Enhanced Surface Water Treatment Rule and systems serving less than 10,000 people must start disinfection profiling by July 1, 2003.

Accurate Environmental Services can provide the technical assistance, plant performance evaluation, and treatability studies needed to meet these rules.



Stillwater Classes

April

- 01 – 03 Class "D" W & WW Operator
- 11 Pretreatment Combined Waste Calculations
- 14 – 17 Class "C" Water Laboratory
- 21 – 24 Class "B" Water Laboratory
- 28 – 02 Class "A" Water Laboratory

May

- 06 – 08 Class "D" W & WW Operator
- 09 Beginning Water Math – 1/2 Day
- 16 Intermediate Water Math – 1/2 Day
- 20 – 22 Class "C" Wastewater Operator

June

- 03 – 05 Class "D" W & WW Operator
- 06 Beginning WW Math – 1/2 Day
- 09 – 12 Class "C" Wastewater Laboratory
- 13 Intermediate WW Math – 1/2 Day

Tulsa Classes

April

- 01 – 03 Class "C" Wastewater Operator
- 07 – 10 Class "C" Wastewater Laboratory
- 15 – 17 Class "D" W & WW Operator

May

- 06 – 08 Class "C" Water Operator
- 12 – 15 Class "C" Water Laboratory
- 20 – 22 Class "D" W & WW Operator
- 23 Beginning Water Math – 1/2 Day
- 30 Intermediate Water Math – 1/2 Day

June

- 03 – 05 Class "C" Wastewater Operator
- 17 - 19 Class "D" W & WW Operator
- 20 Beginning WW Math - 1/2 Day
- 27 Intermediate WW Math - 1/2 Day

Renewal Hour Deadline Is Drawing Near

June 30 is the end of the fiscal year. Do you have your four-hour renewal hours?

You can take your four-hour renewal hours during any four-hour block of many of the Accurate Training Center's regular certification classes. For instance, any Tuesday or Wednesday morning or afternoon session of our Class "A," "B," "C" or "D" Operator Certification Classes provides an excellent opportunity to get your four-hour renewals. This opens up a whole world of possibilities for you to pick up new information and get your renewal hours at the same time. Call Clarke Hodson at 1 – 800 – 516 – LABS (5227) for further information.

New HACH Catalogs

Do you have your new HACH catalog, yet? If not, call Ron Fazel at 1-800-516-LABS (5227). Ron will add it to your next order. Remember, Accurate Laboratory Supplies has Free Shipping and Handling.

Accurate Labs Route Services

Accurate Labs is continuing route services despite the economy's slow down and heightened gasoline prices. We realize what a valuable service this is and many of our clients rely on this service, especially in these slow economic times.

More Complete Route Coverage

The Tulsa Office has expanded its route service to better serve our clientele in eastern Oklahoma, western Arkansas and southern Kansas. If you would like to find out why so many of our clients rely on Accurate Labs & Training Center to deliver containers, laboratory supplies and pick up samples, please give us a call. This is just one more service we provide to make your job a little easier. One simple phone call can put you on one of our routes, which will save you time, money and the hassle of trying to mail or ship your samples to the laboratory.

Accurate Labs – OKC

Have you tried Accurate's new laboratory in Oklahoma City? We are just south of Quail Springs Mall and just east of Pennsylvania Avenue. Our address is 2033 Heritage Park Drive, OKC 73120 – 7502. You can contact Brandon, the lab manager at 405-751-3132.

Geosmin and MIB Analysis

Just as a reminder, Accurate Labs is now testing for Geosmin and MIB in drinking water. Since the summer is approaching quickly and water usage is increasing, now is the time to start testing for Geosmin and MIB. These two compounds have been found to be the major contributors to most drinking water having an "earthy or musty" **taste and odor** and can be noticed by customers at very low concentrations. We are one of a very few labs in Oklahoma and possibly the only commercial lab that is currently analyzing for geosmin and MIB. Any questions or comments please feel free to contact Danny Chance at 1 - 800 - 516 - LABS (5227).

Danny Chance
Organics Manager

SUVA WHO or is it SUVA WHAT???

SUVA (Specific UV Absorbance) is the ratio between UV254 absorption and the dissolved organic carbon in a water sample. SUVA can be used as a rough indicator measurement to characterize the dissolved organic carbon. This dissolved organic carbon is the major factor of the formation of DBP's, such as THMs and HAAs. There could be seasonal variations of organic matter in raw water that could interfere with an existing relationship of SUVA to DBP's. The SUVA can also be used in certain situations to demonstrate compliance with the U.S. Environmental Protection Agency's (USEPA) drinking-water regulations in the Stage I of D/DBP rule. For certain drinking water treatment plants that can not meet the overall Total Organic Carbon removal requirements, they may still be considered in compliance if the SUVA is equal to or less than 2.0 liters per milligram-meter. So, many of you will become very good friends with SUVA and if you need more information, please contact Accurate.

UCMR Deadline Is Here!

If your Drinking Water facility is one designated to conduct sampling for the UCMR List 1, and you collect your water from wells, then time has almost run out to start your sampling. Well users must collect two samples, per sample location per year. One of those samplings must be collected in the months of May, June or July. Please consider scheduling your sampling for the months of April and October. This will allow two months in case of complications. If you have any questions or would like to schedule container delivery, please contact us.

Setting at a Different Table and Not Knowing It

Your COC requests a Table II and Table III and Accurate runs the requested analysis. But, when you review the final report, you notice that there is no Lithium or Terbufos. So, you have to call the lab to have these analytes added to your report. You request a Lithium result and there is no problem getting this result. BUT, much to your surprise, you're not able to get a Terbufos result!!! Now you feel a knot in your stomach and start grinding your teeth. The lab then states, "we did run the Table II & III, but the analytes that you requested are not on the EPA Table II or Table III list, they are additional analytes."

Accurate tries very hard to run the proper analytes that are noted in a specific EPA Tables and Methods, making updates as needed. If you are aware of parameters in your permit which are additional to an EPA List, please inform us prior to the analysis. This will assure your analytical needs will be met and resampling or a letter to a regulatory agency will not be needed.

Ken Crawford
QA/QC

Chain of Custody Forms

How about a quick review on filling out a Chain of Custody form? This is the document the laboratory uses to determine your analytical need and the nature of the sample you are submitting. By filling this form out **legibly, completely and accurately**, we can minimize the chance of a misunderstanding between you and the laboratory. Please include the following information.

1. Client Name
2. Date & Time of Sampling
3. Type of Sample (Matrix) and Grab or Composite
4. Sample Identification as you would like it to appear on the report
5. Analysis Requested
6. Preservation Used
7. Address for Reporting
8. Address for Invoicing
9. Telephone and Fax Number so we can get in touch with you if we have any questions
10. All Custody Signatures
11. Note any special requests or information the lab may need in the comments box

If you have any questions or concerns, we will be happy to go over the form with you.

Vernon Seaman
Tulsa Lab Manager

www.accuratelabs.com

Accurate Labs

Accurate Labs is an NELAP certified environmental laboratory primarily serving municipal and industrial clients in Kansas, Oklahoma, Texas, Arkansas and Louisiana. We provide analytical support for projects involving wastewater, drinking water, ground water, soil, sediment and sludge. In addition, we offer complete field sampling services. We maintain certifications in Oklahoma, Arkansas and Kansas for wastewater and hazardous waste analysis. Accurate Labs is the only commercial lab in Oklahoma fully certified for drinking water analysis.

Accurate Training Center (ATC)

Accurate Training Center provides ODEQ State Certification Classes and Training for the Water and Wastewater Treatment Facility Operators, Laboratory Technicians, Distribution and Collection Operators and Technicians, Industry and Pretreatment Personnel, Rural Water Districts, Indian Tribes, State Parks, Public and Private Camp Grounds, Mobile Home Parks, and Construction and Contract Personnel.

Accurate Laboratory Supply (ALS)

Accurate Laboratory Services provides basic laboratory supplies needed by most water and wastewater treatment plant and laboratory facilities, industries, and educational facilities, or any other facility in the Oklahoma, Arkansas and Kansas region. Our pricing is very competitive, but the *real value* of ALS is the *service and convenience* we provide. ALS is prepared to help our customers set up and design a lab from scratch if necessary. Another benefit of ALS is free delivery of supplies along our routine weekly routes. For those not serviced by one of our routes, we will use a courier for delivery and charge a small fee.

Accurate Laboratory Services is an *Authorized HACH Regional Distributor* in the state of Kansas, Oklahoma and Arkansas.

Accurate Environmental Services (AES)

Accurate Environmental Services provides environmental technical services related to municipal and industrial water, wastewater, solid wastes and biosolids, industrial pretreatment and environmental site assessments.