

## Testing for Geosmin and MIB

Just as a reminder, Accurate Labs is now testing for geosmin and MIB in drinking water. 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 (405) 372-5300.

## Plant Performance Evaluation

Accurate Environmental Services can conduct a performance evaluation on your drinking water treatment or wastewater treatment facility.

What is the capacity of your water or wastewater treatment plant and how is it performing? Can your facility be modified or operated differently so that it can meet EPA and State limits or to extend the life of the facility a few more years?

Determine the performance and capacity of each process unit and the entire treatment plant. Maybe only one process unit needs improvement rather than building a whole new facility.

Determine the capacity of a wastewater treatment plant based on different parameters, such as flow, BOD, TSS, ammonia, pH, or dissolved oxygen.

Determine the capacity of a water treatment plant based on parameters such as hardness, nitrates, turbidity, disinfection by-products (TTHM, HAA5, and TOC), and taste & odor (Geosmin and MIB).

Can your facility handle the increased demands if a new industry decides to locate in your community or if there is increased development and growth?

## Treatability Studies

Accurate Environmental Services can conduct a treatability study on water collected in your drinking water treatment system or wastewater treatment system and provide you the information you need to make important decisions about what to do to meet the requirements of EPA rules and regulations.

In a treatability study, different treatment process methods or chemicals are used in small-scale simulations on your specific water or wastewater to evaluate how well the process will perform and to determine the full-scale requirements of a process modification, such as reactor size and chemical dosages.

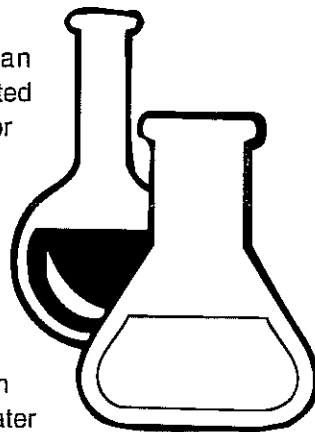
For water systems, treatability studies are used to determine the TTHM or HAA5 potential as a result of using different treatment options, such as chloramines, potassium permanganate, hydrogen peroxide, increased aeration, or other treatment options. The organic compounds in your water that cause high TTHM or HAA5 can be determined and the most appropriate treatment method can be selected.

For wastewater systems, treatability studies are conducted to determine process unit capacities or design requirements or to determine the effect of new waste streams on an existing facility, such as when a new industry locates in a community.

Treatability studies are used for many treatment processes including those designed to remove such parameters arsenic, nitrates, hardness, TTHM, HAA5, TOC, Geosmin and MIB in drinking water.

For biological wastewater treatment systems, treatability studies are conducted to determine the ability of the microorganisms to utilize the organics in the water as an energy source and to determine if there are pollutants that have toxic effects that limit the removal rates.

It is important to conduct a treatability study to determine or verify if a treatment process, equipment, and chemical will work as designed and meet the requirements before a significant amount of time and money is spent on construction or equipment purchases.



## Accurate Environmental Training Center

### STILLWATER Classes

#### October

- 06 - 09 Class "C" Wastewater Lab
- 13 - 16 Class "B" Wastewater Lab
- 17 Biological Process – Intermediate
- 20 - 24 Class "A" Wastewater Lab
- 27 - 30 Class "A/B" Wastewater Operator

#### November

- 04 - 06 Class "D" W & WW Operator
- 11 - 13 Class "C" Wastewater Operator
- 14 Biological Process – Advanced
- 18 - 20 Class "C" Water Operator

#### December

- 02 - 04 Class "D" W & WW Operator
- 09 - 11 Class "C" Water Operator
- 15 - 18 Class "C" Water Laboratory

### TULSA Classes

#### October

- 07 - 09 Class "C" Wastewater Operator
- 21 - 23 Class "D" W & WW Operator

#### November

- 04 - 06 Class "C" Water Operator
- 10 - 13 Class "C" Wastewater Laboratory
- 18 - 20 Class "D" W & WW Operator

#### December

- 02 - 04 Class "C" Wastewater Laboratory
- 16 - 18 Class "D" W & WW Operator

# Hey –

## Employers and Supervisors!

What kind of training qualifications do you require when you hire an operator, lab technician, supervisor, or superintendent?

Do you ask if they received their training from Accurate Environmental Training Center - **AETC**?

**You should.**

Do you have your operators, lab technicians, supervisors, and superintendents receive their training from Accurate Environmental Training Center - **AETC**?

**You should.**

There is a "**Pride of Accomplishment**" when a person receives their training from **Accurate Environmental Training Center**.

- The operators state they learn more at **AETC** Classes.
- The operators know they will perform better on the ODEQ Examinations after attending **AETC** Classes.
- The operators know they can always call Accurate to answer any of their questions.

So, employers – remember to ask your new employees if they received their training at **Accurate Environmental Training Center**.

And when your operators, new or old, need further training, make sure to ask for **Accurate Environmental Training Center**.



## Could UCMR HAUNT Your PWS Systems?????

The current round of UCMR analysis which started in 2001 is scheduled to end on December 31, 2003 (Let there be dancing in the streets)!!! This unfunded mandated bad dream has gone away for now or has it?? I have spoken with an UCMR program leader and learned that some 1500 PWS systems, which decided to ignore the program, will be getting a strong phone call from the EPA. This call is to stimulate the system into performing the UCMR sampling, even if it extends beyond the closing date of the UCMR Program (Dec. 31, 2003). In the 1<sup>st</sup> quarter of 2004 an Administrative Order (N.O.V.) will be served from the EPA Enforcement group if a system has made no effort to begin UCMR sampling. This Administrative Order will become a matter of public record and noted in the annual CCR. If your system needs to start UCMR sampling please contact John Russell or Ken Crawford and you will promptly start your UCMR Program.

## Want to Pass a Certification Exam?

Accurate Labs & Training Center offers operator and laboratory classes intended to assist you in the certification process. Our classes are highly regarded by many and our facilities make the learning process easy and pleasant. We provide the information you will need along with refreshments and lunch, but you will have to apply yourself and come prepared.

Here are a few tips that will make the class more meaningful and increase your odds of scoring highly on the exam. The first thing to do is to read the operations manual and any supplementary information necessary for the class you will be attending before you get to class. Accurate Labs & Training Center supplies these and you can pick them up at one of our locations before the class. By reading and studying in advance you will have an easier time following along and get more out of the course.

If your math skills are rusty, work some of the practice problems in advance. Your coworkers can help you with this or give us a call for some suggestions. We will be glad to help. A lot of information will be covered in the two to four days of class. If you prepare in advance, you won't have to cram at the last minute.

Make sure all of your forms, paperwork and fees have been submitted to the state in a timely fashion. If you have studied and prepared for the exam in advance, the class will solidify your knowledge and clarify the areas you were having trouble with. As

a result, you will be ready for the exam at the end of the course.

Anything worth having comes at a cost. Achieving a higher certification will require some work on your part, but it is worth the effort. The sense of accomplishment you will feel and the added knowledge you gain will make all of the work worthwhile. To get the process started, give us a call. We want to see you excel!

Vernon Seaman  
*Marketing Manager*



[www.accuratelabs.com](http://www.accuratelabs.com)

---

### **Accurate Environmental Labs**

Accurate Environmental 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 Field Services**

Accurate Field Services provides Field Services and Sampling Pick-Up Routes out of Stillwater, Tulsa and Oklahoma City Field Offices. We have routes that extend through out the state of Oklahoma and into southern Kansas, southwest Missouri and northwest Arkansas.

### **Accurate Environmental Training Center (AETC)**

Accurate Environmental 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.