

Accurate NEWS



ENVIRONMENTAL SERVICES

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Inside Accurate News

Accurate Environmental Training
Center Class Schedule page 2

Disinfectant By-Products Class page 2

AETC's "Sampling Class" page 2

Help Us To Help You! page 3

Public Health Security
& Bioterrorism Preparedness
& Response Act of 2002 page 3

Giardia and Cryptosporidium page 3

THMs & HAAs could be a NOV Time Bomb!!!!!!

The EPA's Disinfectants and Disinfection Byproducts Rule is now going to affect cities that have a population less than 10,000. This rule has established limits for TOC (Total Organic Carbon) removal, Total Trihalomethanes (TTHM), and Haloacetic Acids (HAA5). As regulated by the Byproducts Rule each city must sample and analyze for these analytes through out the year, if any one of these monitoring events yields an exceedence then the city could be cited a NOV for the year 2004. It will take 1 year to get off the NOV list if changes to Drinking Water Plant operations can yield results that are below the established limits. Approximately 50% of Large PWS Systems had some type of Byproducts Rule failure in the year of 2002.

Many cities are being proactive and performing preliminary testing for their disinfection byproducts in an effort to assess the quality of the finished water. Many of these cities have results that are below action limits at this time, but it is a fact that **as water temperature rises so do the THMs & HAAs**. So a true test of your water plants operation will not come until the hot summer months of July and August. It is not uncommon for the THMs & HAAs concentration to increase 50 to 100%. Please feel free to call Accurate Labs for Disinfection Byproducts information, we will be happy to answer all of your questions.

Accurate Labs has a vast list of ODEQ Certified Drinking Water parameters including THM, HAA, TOC & SUVA which your system will need. If somebody has told you your system needs upgrades or a complete new plant, **Accurate's Environmental Services** group can verify your system's performance issues with efficiency studies. This will produce solid analytical data from which a prudent plan of action can be made, yielding better water quality and cost savings. Possibly your plant needs only a minor change in operation, this could translate into thousands of dollars of chemical savings or additional years of service to your existing plant. If you have further questions as to how this program affects your system or if you have system performance problems call David Kincannon or Kenneth Crawford.

Accurate is Testing for Total Petroleum Hydrocarbons

Accurate Labs is now testing for Total Petroleum Hydrocarbons in water and soil by TNRCC (Texas Natural Resource Conservation Commission) Method 1005. TNRCC Method 1005 determines concentrations of hydrocarbons using three approximate boiling point ranges between nC6 to nC12, nC12 to nC28, and if needed, nC28 to nC35. This is in slight contrast to the EPA Method 8015 Mod. (Oklahoma Method), which uses one chromatographic range between MtBE and Naphthalene for Gasoline Range Organics, and one range between nC10 and nC28 for Diesel Range Organics. Some analytical testing facilities and government agencies, such as the OCC (Oklahoma Corporation Commission) are considering adopting this method for their own use. The OCC is divided into two groups for petroleum products; one deals with oil and gas such as pipelines and crude, and the other group deals with UST (Underground Storage Tank) and spills. The "oil and gas group" is considering adopting TNRCC Method 1005 as their analytical testing method. The "UST and spill group" currently has some reservations about the PQLs (Practical Quantitation Limit) for this method, and will continue to use EPA Method 8015. Clients desiring to have TPH analysis done for the OCC may have to determine what analytical method they need depending on which group they are reporting their data to. Any questions or comments please feel free to contact Danny Chance at (405) 372-5300.



**AETC
Classes
Are Now
In
Oklahoma
City.
Check
Out the
AETC Class
Schedule
on AETC
Web Site**



www.accuratetraining.com

Accurate Environmental Training Center



STILLWATER Classes

- April**
30 - 01 Class "D" W & WW Operator
06 - 08 Class "C" Water Operator
19 - 22 Class "A/B" Wastewater Operator

- May**
04 - 06 Class "D" W & WW Operator
11 - 13 Class "C" Wastewater Operator
17 - 20 Class "C" Wastewater Laboratory

- June**
01 Sampling Class
02 Sampling Class
07 Math - Water - Beginning
08 Math - Water - Intermediate
09 Math - Waterwater - Beginning
10 Math - Waterwater - Intermediate
15 Pretreatment - Industry
16 Pretreatment - Local Limits
17 Pretreatment - Calculations
22 Biological Process - Beginning
23 Biological Process - Intermediate
24 Biological Process - Advanced

TULSA Classes

- April**
30 - 01 Class "C" Waterwater Operator
05 - 08 Class "C" Wastewater Laboratory
13 - 15 Class "D" W & WW Operator

- May**
04 - 06 Class "C" Water Operator
18 - 20 Class "D" W & WW Operator

- June**
07 Math - Water - Beginning
08 Math - Water - Intermediate
09 Math - Waterwater - Beginning
10 Math - Waterwater - Intermediate
14 - 17 Class "C" Water Laboratory

OKLAHOMA CITY Classes

- April**
13 - 15 Class "D" W & WW Operator
26 - 29 Class "C" Wastewater Laboratory

- May**
11 - 13 Class "D" W & WW Operator
25 - 27 Class "C" Water Operator

- June**
08 - 10 Class "D" W & WW Operator
21 - 24 Class "C" Water Laboratory

AETC Hosts One-Day *Disinfectant By-Products Class*

- Date:** 02 April 2004
Time: 8:00 am - 5:00 pm
Location: 505 South Lowry, Stillwater, Ok.
Tuition: \$95.00
Includes: Lunch, Notebooks, Handouts
Phone: 1-800-516-5227

Due to an overwhelming response to our January Disinfect By-Products class, Accurate Environmental Training Center (AETC) is sponsoring another one-day, eight-hour Disinfectant By-Products class. This class is designed for the operator who needs to prepare, renew, expand, or upgrade their skills and knowledge in this area. Upon completion, the operator will have a better understanding of Disinfectant By-Products.

These classes cover the following topics of Disinfectant By-Product, but may not be limited to:

- Introduction
- Summary of Rules
- Treatment Techniques
- Disinfectant By-Product Precursors
- Methods of Removal
- Monitoring Reports
- Sampling & Preservation

The January Disinfectant By-Products Class filled up rather quickly, so, call Clarke Hodson today to enroll in this very, valuable class.



AETC's "Sampling Class" Approved for Oklahoma Remediation Consultants

AETC is proud to announce AETC's "Sampling Class" has been approved by the Oklahoma Corporation Commission to meet the continuing education requirements for the Oklahoma Remediation Consultants.

The one-day, eight-hour "Sampling Class" is scheduled for June 1 and 2, 2004 from 8:00 am to 5:00 pm at the Stillwater classroom. Tuition is \$95 per day and includes a 3-ring notebook, hand-outs, lunch and refreshments. You can enroll in either day.

These classes are designed for the operator and/or consultant who need to prepare, renew, expand, or upgrade their skills and knowledge in this area.

Upon completion, the sampling personnel will have a better understanding of the following topics:

- Characteristics of Water
- Pretreatment
- QA / QC
- Sampling & Preservation of W & WW
- Calculations
- Calibrations of Equipment

For further information and enrollments, please contact Clarke Hodson at 1-800-516-5227.

HELP US TO HELP YOU!!!!

As more mandated EPA water and wastewater programs are implemented, the need for specialized documentation is also needed. Accurate Environmental updated and, in some cases, created new COCs which are EPA Program specific (DBP & Water Quality) and new sampling instructions that will assist you in the proper sampling and handling of your sample. As you setup a sampling event, Accurate will supply you with the containers, revised COC, and new sampling instructions. If you are photocopying old COCs, please contact us for revised COCs, or go to our WEB page www.accuratelabs.com and download these documents. Accurate is always striving to stay current with new EPA Programs as they come on-line and a great place to see this is on our web page. Take time to view the web page and give us suggestions on how Accurate can make improvements. The bottom line is "your needs are what we strive to fulfill".

Also, due to the generation of more quotes for these new programs, please include your Accurate Quote # as well as your P.O. This will avoid "you" spending time on the phone correcting billing issues which could have been avoided. For quote information please contact Jeremy Brittenham or John Russell.

Public Health Security and Bioterrorism Preparedness and Response Act of 2002

Accurate Environmental Services can assist you from the development to the implementation stage of a Bioterrorism Preparedness and Response plan for your city. This program can be very complicated and vague. But, with the assistance of our Environmental Services group, a complete plan can be generated with minimal time. Below is a very brief outline which states what actions a city must take in order to be compliant.

The Bioterrorism Preparedness and Response Act requires every community water system that serves a population of greater than 3,300 persons to:

1. Conduct a vulnerability assessment
2. Certify and submit a copy of the assessment to the EPA Administrator (see schedule below);
3. Prepare or revise an emergency response plan that incorporates the results of the vulnerability assessment; and
4. Certify to the EPA Administrator, within 6 months of completing the vulnerability assessment, that the system has completed or updated their emergency response plan.

The Bioterrorism Preparedness and Response Act sets the following due dates for certification and submission of the vulnerability assessments, and for certification of the emergency response plans:

Systems serving population of:	Certify and submit Vulnerability Assessment (VA) by:	Certify Emergency Response Plan:
100,000 or greater	March 31, 2003	Six months following the completion of the vulnerability assessment *
50,000 - 99,999	December 31, 2003	
3,301 - 49,999	June 30, 2004	

- EPA interprets "completion" to mean the date the vulnerability assessment and certification were sent to EPA. Community water systems should be aware that if they fail to comply with their respective vulnerability assessment submittal requirements six months after their appropriate deadline date, then they may be liable for failing to comply with both the vulnerability assessment submittal requirements and the emergency response plan certification requirements of the Bioterrorism Act.

If you have additional questions, or wish to have Environmental Services assist your city in the development of your vulnerability plan, please call David Kincannon at 405.372.5300.

Giardia and Cryptosporidium

Giardia and Cryptosporidium are two prevalent water-borne diseases that affect the water drinking population of today. These two diseases have much in common. They are both a microscopic protozoan parasite that have symptoms of diarrhea, abdominal cramps, nausea, fatigue and of course weight loss. The two protozoa's also encyst making them resistant to their environment, including freezing, for a period of time. Both affect greatly the young, elderly, transplant patients, people undergoing chemotherapy, and immune deficient persons. Humans and warm-blooded animals are the reservoir for these parasites. Generally, symptoms usually develop 4 to 6 days for *cryptosporidium* and 7 to 10 days for *giardia* after infection.

The best way to treat against these two bugs is the same. Current disinfecting practices do not currently protect us against these water-borne diseases. Chlorine and chloramine do not disinfect the cysts that are created. However, chlorine dioxide has a small affect and ozone does well, but will not leave a residual to continue disinfection. This leaves us with really one choice until other methods of removal are available -- coagulation, flocculation, sedimentation, and filtration. If we continue to lower the turbidity, particles in water, then we will continue to remove such organisms that may be harmful to us, our children, and our community.



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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 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.