

## AQUA PROFESSIONALS, INC

### REVISED TOTAL COLIFORM RULE GOES INTO EFFECT NOW

On April 1, 2016, all public water systems will be required to comply with the Revised Total Coliform Rule (RTCR). So, what is the difference between the Total Coliform Rule (TCR) and the Revised Total Coliform Rule? The major difference is that under the RTCR, not only will systems re-sample when a positive occurs, but they will also be required to take action and fix any defects that may be causing contamination in the system.

#### Differences

Non-community water systems will be required to monitor monthly. Small systems will no longer be required to take 5 routine samples the month following a positive total coliform sample, they will only have to take the usual required number of samples the following month. Additionally, systems will only take 3 repeat samples for each total coliform positive.

The RTCR eliminated MCL violations for total coliform positives. However, if a system has 2 or more total coliform positive samples then the system will be required to perform a Level 1 Assessment.

#### Same

All public and community water systems will continue to monitor monthly.

Ask Us About  
Chlorine Safety & Handling Classes  
Provides 2 Hours  
Toward Certification



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### LRWA TRAINING CALENDAR



#### FEBRUARY

02/17	Kees Park, Pineville
02/18	Kees Park, Pineville
02/23	Jeanerette Civic Center
02/25	Luling Community Center

#### MARCH

03/09	Welsh Community Center
03/10	Welsh Community Center
03/24	Cottonport Community Center

#### APRIL

4/19	Keithville
4/26	Erwinville
4/27	Erwinville



LOUISIANA RURAL WATER ASSOCIATIONS  
 31ST ANNUAL TRAINING AND TECHNICAL CONFERENCE  
 SPECIAL CONFERENCE EVENTS  
 COME JOIN  
 THE CLOWNS  
 AT  
 C & L AQUA PROFESSIONALS  
 CARNIVAL

**TOILET BOWL RACE**

**MONDAY, JULY 18TH (5PM-6PM)**

There will be toilet bowl races Monday evening on the 1st floor of the Lake Charles Civic Center near the LRWA Registration Desk. Winners will receive prizes. We furnish the toilet carts and prizes for this event.

**LAS VEGAS NIGHT WITH BINGO**

**TUESDAY, JULY 19TH (6:30PM-9PM)**

The Annual Las Vegas Night (card games with Bingo will be available for everyone to enjoy ) on the 2nd floor of the Lake Charles Civic Center. This is an adult and kid friendly event with many prizes available for all winners.

**Carnival Night (no rides)**

**Wednesday, July 20th (5pm-8pm)**

We will be set up outside the front of the Lake Charles Civic Center. There will be games, food and fun for your entire family. **Everyone is welcome.**

**SPECIAL FEATURES**

Clown with animal balloons

Bounce Houses

Juggler

Dunken Booth

Washer Board Tournament

Go Fishing

Can Knock Down

Hoop A Toy

Face painter

Potato Sac Races

Toilet Paper Toss

Leap Frog

Rocket Blast



## MATH PROBLEM

### CORRECTION:

To calculate the weight and percentage chemical concentration for Aluminum Sulfate batch.

Knows: 200 gallon day tank (total weight of 1668), and 400 lbs. of dry aluminum

First: we must calculate how much water needed. (If we fill the tank to 200 gallons then add 400 lbs. of aluminum sulfate the tank will over flow)

200 gallons full = 1668 lbs.

1668 lbs. minus 400 lbs. of aluminum sulfate = 1277 lbs. of water.

1277 lbs. of water divided by 8.34 (weight of water) = 152 gallons of water.

Second: we need to calculate our percentages and verify they equal to 100%

400 lbs. of aluminum sulfate divided by total weight 1668= 24%

1277 lbs. of water weight (152 gallons) divided by total weight 1668= +76%

Mix percentages much equal to 100% 100%

Conclusion: To make a 24% batch of Aluminum sulfate that will fit in a 200 gallon day tank it will take 152 gallons of water and 400 lbs. of Aluminum Sulfate.

## HOW TO MIX POTASSIUM PERMANGANATE (KMnO4)

**STEP ONE:** MARK THE MIX TANK AT A PREDETERMINED LEVEL (THIS WILL USUALLY BE ABOUT 3/4'S OF THE TOTAL). FOR

**STEP ONE:** MARK THE MIX TANK AT A PREDETERMINED LEVEL (THIS WILL USUALLY BE ABOUT 3/4'S OF THE TOTAL). FOR INSTANCE IF IT IS A 200 GAL TANK, MAKE THE REFILL LINE AT 50 GALLON MARK.

**STEP TWO:** WHEN THE LEVEL IN THE MIX TANK REACHES THE PREDETERMINED LEVEL, FILL THE MIX TANK WITH THE MAKE UP WATER UNTIL IT IS FULL.

**STEP THREE:** TURN ON THE MIXER.

**STEP FOUR:** SLOWLY POUR THE POTASSIUM PERMANGANATE INTO THE WATER WHILE THE MIXER IS RUNNING.

**STEP FIVE:** ALLOW THE POTASSIUM PERMANGANATE STOCK SOLUTION TO MIX FOR ABOUT FIFTEEN MINUTES.

RATIOS OF KMnO4 IN POUNDS TO WATER IN GALLONS @ A 3% MIX

KMnO4	H2O
2.5 LB	10 GAL
6.25 LB	25 GAL
12.5 LB	50 GAL
18.75 LB	75 GAL
25 LB	100 GAL
31.25 LB	125 GAL
37.5 LB	150 GAL
43.75 LB	175 GAL
50 LB	200 GAL

POTASSIUM PERMANGANATE IS A VERY STRONG OXIDIZER

PROTECTIVE EQUIPMENT SHOULD ALWAYS BE WORN WHEN HANDLING

GOGGLES, RUBBER GLOVES, SLICKER OR RUBBER APRON

POTASSIUM PERMANGANATE WILL REACT VIOLENTLY WITH OIL, GAS,

DIESEL, PAINT THINNER OR ANY OTHER HYDRO-CARBON

DO NOT SMOKE WITHIN TWENTY FEET OF POTASSIUM PERMANGANATE



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#### Are Your Children At Risk?

Lead poisoning is a significant public health threat to children nationwide.

Children are typically exposed to the toxic metal by living in older homes that have flaking lead based paint, by playing in lead-contaminated dirt in their yards and through other sources. Young children are especially vulnerable to lead poisoning.

Lead is a toxic metal widely used in paint, gasoline and other products, is a powerful neurotoxin that can cause irreparable harm to a child's developing brain. At even low levels of exposure, lead can cause decreased IQ and academic achievement, increased incidences of ADHD and problem behaviors, delayed puberty and decreased hearing.

Lead-based paint was commonly used in homes built before 1978. Over time, it deteriorates into a fine dust that children can ingest when they put their hands and toys in their mouths. Home renovations and sanding of painted surfaces can pose significant risks.

Soil in outdoor play areas can be contaminated with dust from lead-based paint. Undistributed, lead dust will remain in the top few inches of soil for hundreds of years.

Drinking water can also become contaminated because lead is still found in the water pipes of some homes and in lines that connect homes to the water line in the street. Corrosion can cause lead to leach into the water when it sits in these kinds of pipes. House dust, soil and water can all be tested for lead.

Though children face the greatest risk, lead exposure in adults can also cause health problems. According to the CDC, lead exposure can cause miscarriages and still births. Prolonged exposure to lead may put adults at risk for infertility, high blood pressure, heart disease and kidney disease.

The CDC says that long-term exposure can also cause non-specific symptoms such as abdominal pain, constipation, distraction, forgetfulness, irritability or depression. Adults may have jobs that put them at greater risk of lead exposure. Those jobs include auto repair, construction and renovation, battery manufacturing, firing range instructors and gunsmiths. Artists can be at risk because some materials they work with may contain lead.

Children who have been exposed to lead may not show obvious symptoms, and the danger they face often goes unrecognized, experts say. A blood test is used to measure a child's exposure level. Blood tests are available from pediatricians and often from health departments. They cost of the tests are covered by Medicaid and most insurance, according to CDC.

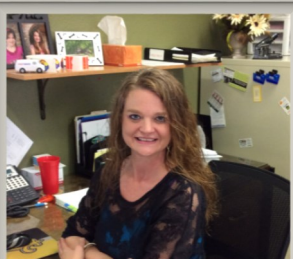
#### Effects of Lead on Children

People ingest low levels of lead daily. Adults absorb relatively small amounts compared to that of children. Some of the health effects associated with lead exposure in children are headaches, decreased IQ, attention-related problems and behavioral changes, hearing loss, anemia, hypertension, kidney problems, abdominal distress, constipation and muscle weakness.

#### MEET OUR EMPLOYEES

##### ACCOUNTS RECEIVABLE SPECIALISTS

JODI AND LYNN WILL TAKE YOUR CALL, ASSIST YOU WITH YOUR ORDERS, MAKE SURE YOUR DELIVERY ARRIVES AS SCHEDULED, AND MEET YOUR NEEDS FOR YOUR SPECIAL DELIVERY INSTRUCTIONS.



JODI HUDSON



LYNN BARROSSE