

# **IGWA Newsletter**

The quarterly newsletter of the Indiana Ground Water Association (IGWA)



# **NEW STUDY SAYS FARM SLUDGE COULD AFFECT GROUNDWATER**

By Brian Bienkowski, Staff Writer, Environmental Health News

Sewage sludge used as fertilizer on farms can leave traces of prescription drugs and household chemicals deep in the soil, according to a new study by federal scientists.

The findings suggest the widespread use of biosolids could contaminate groundwater near farms with a variety of chemicals, including anti-depressants such as Prozac and hormone-disrupting compounds in antibacterial soaps.

"These compounds are not sitting in top layer; we see vertical movement down through the soil, which means there's the potential to get into the environment—groundwater or surface water," said Dana Kolpin, a research hydrologist for the U.S. Geological Survey.

USGS researchers tested an eastern Colorado wheat field that used treated sludge from a Denver sewage treatment plant. Chemicals in antibacterial soaps, cleaners, cosmetics, fragrances, and prescription drugs such as Prozac and Warfarin not only persisted in the topsoil, but migrated down.

The researchers looked for 57 emerging contaminants that are increasingly showing up in the environment. Ten were detected in the soil at depths between 7 and 50 inches 18 months after the treated sludge was applied. None was in the field's soil beforehand.

Called biosolids, about half of treated sewage sludge—about 7 million dry tons per year—from U.S. wastewater plants is applied to farm fields because the nutrients and organic matter help plants grow. The municipal sewage has gone through mandatory primary treatment and other processes that reduce pathogens but do not remove chemicals.

Other studies have found hormones, detergents, fragrances, drugs, disinfectants, and plasticizers in treated sludge used as fertilizer. But this is the first study to show how they can persist and move in soil.

"These are compounds that often come from us and that get sent to wastewater treatment plants that weren't designed to remove them," said Tracy Yager, a USGS hydrologist in Colorado and lead author of the study.

#### **Additional information:**

http://www.environmentalhealthnews.org/ehs/news/2014/may/biosolids-contaminants

#### Original study:

http://onlinelibrary.wiley.com/doi/10.1111/jawr.12163/abstract

# **President's Message**

Dear IGWA Members,

It is hard to believe it is already June and we are half way through another year. Hopefully we are all staying busy and having a prosperous year.

As most of you know, this year ends our continuing education cycle. By December 31 of this year all well drillers and pump installers are required to have their continuing education hours done. The DNR must have these to renew our licenses for 2015 and 2016.

The IGWA has made a move to have our trade show coincide with the end of our education cycle. As a result of this change, we will have a tradeshow again this year. After this year, we will be on an even year cycle for tradeshow and classes. In odd years, we will offer only classes.

We are excited about this year's convention! It will be located at the Blue Chip Casino and Resort in Michigan City, Indiana. This venue will provide a great setting for our classes and a nice area for the tradeshow. Registration packets will be out in August with a great opportunity to win some wonderful prizes for early registration. As always, we try to provide the best value for your hard earned dollars.

So save the date for education and some fun in November! We look forward to seeing everyone at the Blue Chip!

Sincerely,

Troy Alexander, IGWA President Findlay Brothers Well Drilling

# IGWA List Serv — New, FREE Member Benefit

This spring the IGWA added a new member's benefit. It is a list serv for all members to use. A list serve allows its users to send messages to the members only so it can be used to share industry information or ask questions.

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To sign up for the free service, go to the IGWA website, indianagroundwater.org.

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# NEW INDIANA FRANKLIN ELECTRIC FACILITY & ENGINEERING CENTER EXPANDS INNOVATIVE WATER SYSTEMS OPTIONS

Fort Wayne, IN — Franklin Electric Co. Inc. (www.franklin-electric.com - NASDAQ:FELE) has expanded its research, development, design and testing capabilities with its new World Headquarters and Engineering Center of Excellence. The new 118,800 square foot facility is located at 9255 Coverdale Road, Fort Wayne, Indiana, near the Fort Wayne International Airport and houses the company's current headquarters staff of 245 employees while allowing for future growth. One of the main benefits of the new facility is its 25,000+ square foot state-of-the-art U.S. engineering test and prototyping lab that is already facilitating long-term product innovation and growth. The lab allows Franklin Electric to mimic the harshest working

environments during testing and stay at the forefront of product innovation for a variety of markets and customer requirements.

# A few new products recently released by Franklin Electric include:

AG Series – Cast iron centrifugal pumps that excel in challenging water transfer applications. Standard JM and JP motor frames and a stainless steel shaft sleeve prolong pump life. They are available in 3 through 75 hp models with 50 through 1000 gpm flow rates and a maximum shut-off pressure of over 175 psi. An updated hydraulic design offers improved energy efficiency while standardized mounting dimensions and plumbing connections provide quick and easy retrofitting.

C1 Series – Stainless steel submersible pumps that are specifically designed for gray water/filtered effluent service applications, with the ability to pass solids up to 1/8-inch in diameter. The C1 Series is constructed of a 304 stainless steel motor and outer shell with engineered polymer hydraulics providing superior corrosion resistance and abrasive handling. A removable 5-inch wide base allows for secure and reliable mounting, and the unique bottom suction design allows for maximum fluid drawdown without compromising durability or overall pump life. They are available with a 115 V or 230 V ½ hp motor with flow rates of 10, 20 and 30 gpm and a maximum shut-off pressure of over 100 psi.

*VR Series* – Stainless steel vertical multistage booster pumps that deliver clean water under pressure with temperatures ranging from -5 °F to 250 °F for a multitude of commercial and industrial applications. They feature an innovative hydraulic design and an integral heavy-duty bearing designed for minimized axial thrust for compatibility with standard motors. The VR Series is available in flow rates from 8 to 60 gpm, and 3/4 to 10 hp to deliver up to 750-foot TDH in 50/60 Hz.

STS Series 5-inch and 8-inch – Submersible turbine pumps with premium ductile iron casting for longer life and higher pressures. Both new sizes have efficiencies up to 74%, the same proven STS bearing system and 1-inch shaft as the 6-inch model and a new hybrid cable guard design that simplifies installation. Depending



on size, flow rates range from 90 to 1000 gpm with motor sizes ranging from 3 to 200 hp.

3200 Series – Reduced diameter submersible pumps that provide added flexibility and ease of installation where the well is considered encrusted or tight in comparison to a standard 4-inch well. A hydraulic stage design provides greater water and pressure output at deeper well depths. The hex rubber bearing and ceramic shaft sleeve allows sand and abrasives to pass through, virtually eliminating shaft wear and upper bearing failures. The 3200 Series is available in flow rates of 5, 7 and 10 gpm and motor sizes ranging from ½ to 1 ½ hp.

SubDrive SolarPAK – High-output groundwater pumping system that utilizes solar energy to deliver water in remote and harsh environments or when added energy efficiency is desired. System comes with a submersible motor, submersible pump, controller and flow switch. It's available in flow rates of 5, 7, 10, 15, 25, 35, 45 and 90 gpm with motor and drive ratings of 1 ½ and 3 hp.



Franklin Electric is a global leader in the production and marketing of systems and components for the movement of water and automotive fuels. Recognized as a technical leader in its specialties, Franklin Electric serves customers around the world in residential, commercial, agricultural, industrial, municipal, and fueling applications.

# Exciting new location!

# **IGWA 2014 Convention Destination & Attractions**

Blue Chip Casino Hotel & Spa, Michigan City, IN • November 6–7, 2014

# **BLUE CHIP CASINO HOTEL** & SPA

#### -Casino-

Blue Chip offers 65,000 square feet of gaming on a single luxurious and spacious level, with 42 table games, eight live poker room tables and more than 1,900 slots. Open 24 hours a day, seven days a week, all year round. With your favorite games — and the ultimate gaming environment— Blue Chip will put you in the mood to play.

#### -Hotel-

After a day full of non-stop action in the casino, Blue Chip's hotel offers the perfect place to relax. Whether you stay in their distinctive, 22-story Spa Blu Tower, or the original Blue Chip Tower, you'll enjoy a relaxation destination in one of our 486 luxurious rooms and suites.

#### -Spa-

Relax in one of their nine treatment rooms, individual lounges, steam rooms and whirlpools. The lavish spa offers comprehensive health and beauty treatments, along with customizable services that can be tailored to each guest.

#### -Dine-

Great dining is part of what makes the Blue Chip so much fun. From quick snacks to sizzling steaks, they go to great lengths to ensure that every bite you take at Blue Chip is absolutely delicious.

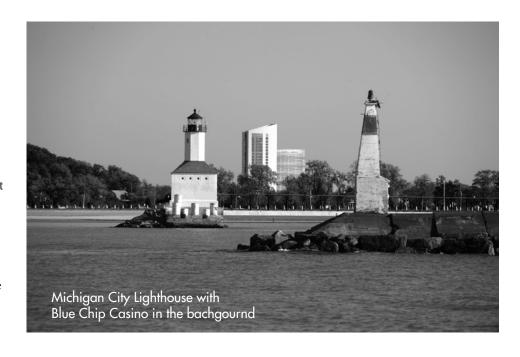
#### -Fitness Center-

Health-conscious guests will find everything they need to maintain their regular workout schedules while staying at the Blue Chip Hotel.

#### -Swimming Pool-

Flooded with soft natural light from a wall of floor-to-ceiling windows, Blue Chip Hotel's indoor pool area provides a serene environment in which to energize yourself in the morning by swimming a few laps or unwind in the evening with an invigorating soak in one of the two whirlpools.





#### **MICHIGAN CITY / LAPORTE COUNTY**

#### -Shopping-

Most shoppers are probably already aware that Lighthouse Place Premium Outlets features an impressive collection of brand names at incredible savings—with over 120 outlet stores conveniently clustered together in a shopper's paradise. Savvy shoppers will also be preparing to browse through our affordable antiques, nostalgic gift shops, stunning galleries and encouraging craft stores. You'll definitely leave Michigan City and LaPorte with more than you came with.

#### -Eating-

It's hard to see the grins from behind that stack of pancakes but you know they're there. Meanwhile, you're already thinking about stopping by the espresso bar during your shopping spree. And lunch? Homemade from scratch soup or a famous burger? You've already got dinner planned out for your entire stay—starting with award-winning pizza and finishing with a first-class steak dinner. Farm fresh to famously familiar. Surf and turf. You'll find something to fit any food mood. Plus, you're sure to find delicious and diverse dining at one of our must-try restaurants chosen recently by Midwest Living Editors for the Northern Indiana Foodie Trail.

#### -Arts-

Discover how local artists capture the beauty and spirit of the County as you tour galleries and studios. You might even find a piece or two to take home with you—keeping your getaway alive in your memories. Let the music move you as the LaPorte County Symphony Orchestra brings the joy of live music to your vacation.



#### Top Ten Things to do in La Porte County

While there are certainly other wonderful attractions in the area, these ten will give you a look at the very best of Michigan City LaPorte. For more information visit: www.michigancitylaporte.com

Blue Chip Casino, Hotel & Spasee description on page 4

Washington Park / Michigan Citiy Lighthouse is the only working lighthouse in Indiana and sits along the shore of Lake Michigan in Washington Park.

LaPorte County Historical Society
Museum houses the third largest antique firearms collection in the world.

Lighthouse Place Premium Outlets has a collection of 120 outlets from the world's leading designers and brand names and therefore, is one of the top three attractions that draws the most visitors to Michigan City.

Hesston Steam Museum features both ¼ scale and ¼ scale steam locomotives that take passengers on a spectacular journey through 155 acres of ponds, scenic forests and farmland.

Lubeznik Center For The Arts, located steps from the lakefront, features world class art exhibitions, performances, after hours events, is home to an outdoor art collection and is now it its 30th year of hosting the annual Lakefront Art Festival.

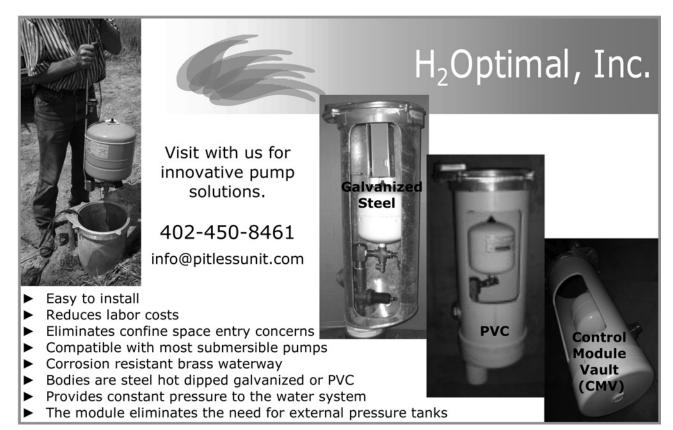


Barker Mansion, built in 1857 for millionaire railroad-industrialist John H. Barker, decorates all three floors for a Victorian-style Christmas each December.

Shady Creek Winery features many varieties of wine from the Lake Michigan region as well as the West Coast and was awarded Silver Medals for it's Beach Glass and Pinot Grigio wines at the 20th annual Indy International Wine Competition in August of 2011.

Orchards, Farms & Gardens LaPorte County houses over 20 orchards, farms & gardens that offer an array of choices. Great Outdoors/Park & Recreation
LaPorte County has the finest acreage of
wetlands, uplands, parks, beaches, golf
courses, hiking trails and scenic beauty in
the Midwest.





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Mumma Brothers Drilling, Inc, Richard Mumma

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Preferred Pump, Ron Beaver

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Preferred Pump, Mike Hexamer

Preferred Pump, Mike Jones

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Preferred Pump, Randy Carnes

Preferred Pump, Bart Holle

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Preferred Pump, Todd Blair

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Remmler Well Drilling, John Remmler

Remmler Well Drilling, J.Dale Remmler, II

Rice Well Service, Aaron Rice

Richardville Drilling Co., Inc., Gary Richardville

(Continues next page)

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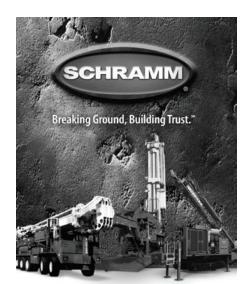
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# **CALENDAR**

## **JULY**

- 30 IGWA Newsletter Issue #3 ad deadline This is the Convention newsletter.
- Exhibitor Early Bird Deadline 30 Sign up by this date and receive a FREE 1/4 page ad!

## **NOVEMBER**

- ★★ IGWA 2014 Convention ★★ Blue Chip Casino Hotel & Spa, Michigan City, IN Remember: Michigan City is on Central Time. See pages 4 & 5 in this issue for destination information.
- Membership dues renewal date 30