



The Mulvaney Pipeline



Mulvaney
MECHANICAL, INC.
Mechanical Contractors
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THE SKY IS THE LIMIT FOR WIND POWER

Wind energy is one of the best sources of alternative energy. Wind refers to the movement of air from high pressure areas to low pressure areas. Wind is caused by uneven heating of the earth's surface by the sun. Hot air rises up and cool air flows in to take its place. Winds will always exist as long as solar energy exists and people will be able to harness the energy forever. Windmills have been in use since 2000 B.C. and were first developed in Persia and China. Ancient mariners sailed to distant lands by making use of winds. Farmers used wind power to pump water and for grinding grains. Today the most popular use of wind energy is converting it to electrical energy to meet the critical energy needs of the planet. It is a renewable source of energy and does not produce any pollutants or emissions during operation that could harm the environment. Wind power is one of the cleanest and safest method of generating renewable electricity. Wind farms can be created to trap wind energy by placing multiple wind turbines in the same location for the purpose of generating large amounts of electric power. Wind energy is mostly harnessed by wind turbines which are as high as 20 story buildings and usually have three blades which are 60 meters long. They resemble giant airplane propellers mounted on a stick. The blades are spun by the wind which transfers motion to a shaft connected to a generator which produces electricity. A small wind turbine can easily power a small business or a home. A wind farm is a collection of wind turbines in the same location. Many wind farms provide rental income to rural communities where they are situated. Wind turbines have been criticized. Because they can create noise and disturb nearby residents. The slowly moving turbine fans are also accused of harming bats and bird populations. Another criticism is that wind energy is variable- if there is no wind, the generation of electricity stops. Wind energy is a clean, pollution free, abundant and free source of energy. Most importantly, it is a renewable source of energy unlike fossil fuels which are non renewable and cause pollution.

TRADING UP

The term "vocation" has lost its origin in the Latin vocation, meaning a "call" or "summons". Today it is thought of as what you're stuck with if you can't get a desk job. "Back" work instead of "Brain" work. But, one of the main attractions of the trades is that they require back and brain work in equal measure. Unfortunately, this combined skill set, which is admired in athletes, is belittled in tradesmen. This is probably that kids have more opportunity to test their sports ability than their aptitude for the trades. We need to promote the positive attributes of construction more publicly and more often. We can talk about the confidence we feel in knowing how things work and at being the one who others turn to for solutions. We need to help our youth to understand the satisfaction we feel at the end of the day when we can stand back and see a tangible finished project. With more than 76 million baby boomers entering retirement, the reality of an aging workforce is already upon us. The realities of an aging infrastructure, urbanization and a mature workforce all remain, and as the economy continues to improve, the demand for skilled labor will be even more significant. In looking specifically at the skilled trade sector, demand is not keeping up with supply. For example, according to demand projected by the U.S. Bureau of Labor Statistics, the U.S. will need more than 100,000 skilled workers in the job pool. Furthermore, the demand for skilled workers, specifically, is expected to grow 10% by 2021, but due to the aging generation of skilled professionals who will be exiting the workforce, further emphasizes why recruitment is more important than ever.



WHAT'S ON TAP?

There are at least a dozen different brands of bottled water available in stores today. None as of yet having the name "Toilet on Tap". A new taste test shows that people actually ranked toilet to tap water comparable to bottled water and even preferred it over tap water. Toilet to tap water is indirect potable reuse (IPR) water and refers to treated wastewater that's intended to be put back into groundwater supplies. Studies have found the purification process of making IPR water removes virtually all contaminants. That said, if people know a glass of water is IPR it is questionable as to how much they will enjoy it.



TRAVELER'S DIARRHEA (and THE NEED FOR GOOD PLUMBING)

Each year between 20%-50% of international travelers, an estimated 10 million persons, develop diarrhea. The onset of Travelers Diarrhea usually occurs within the first week of travel but may occur at any time during travel, and even after returning home. The most important determinant of risk is the traveler's destination. High-risk destinations are the developing countries of Latin America, Africa, the Middle East, and Asia. The primary source of infection is ingestion of fecally contaminated food or water. Bacterial enteropathogens cause approximately 80% of Travelers Diarrhea. The most common causative agent isolated in countries surveyed has been enterotoxigenic Escherichia coli (e. Coli). Besides e. Coli and other bacterial pathogens, a variety of viral and parasitic enteric pathogens also are potential causative agents. **When to see a doctor:** Traveler's diarrhea usually goes away on its own within several days. Signs and symptoms may last longer and be more severe if the condition is caused by organisms other than common bacteria. In such cases, you may need prescription medications to help you get better. If you have severe dehydration, persistent vomiting, bloody stools or a high fever, or if your symptoms last for more than a few days, seek medical help. The local embassy or consulate may be able to help you find a well-regarded medical professional who speaks your language.

Prevention: The general rule of thumb when traveling to another country is this: Boil it, cook it, peel it or forget it. Studies show, however, that you can still get sick even if you follow these rules. Remember these tips to decrease your risk of getting sick:

- Don't consume food from street vendors.
- Avoid unpasteurized milk and dairy products, including ice cream.
- Avoid raw or undercooked meat, fish and shellfish.
- Steer clear of moist food at room temperature, such as sauces and buffet offerings.
- Eat foods that are well-cooked and served hot.
- Stick to fruits and vegetables that you can peel yourself, such as bananas, oranges and avocados. Stay away from salads and unpeelable fruits, such as grapes and berries.
- Be aware that alcohol in a drink won't keep you safe from contaminated water or ice.



Did you know.....



There are more trees on Earth than stars in our galaxy:

NASA experts believe there could be anywhere from 100 billion to 400 billion stars in the Milky Way galaxy. However, a 2015 paper published in the journal "Nature" estimated that the number of trees around the world is much higher: 3.04 trillion.

Bananas are radioactive

Bananas contain potassium, and since potassium decays, that makes them slightly radioactive. But it's nothing you need to worry about. You'd need to eat 10,000,000 bananas at once to die of radiation poisoning.

It can rain diamonds on other planets

Studies have examined the potential that Neptune, Uranus, Jupiter, and Saturn have to produce diamonds. The atmospheres in all four planets have such extreme pressure that they can crystallize carbon atoms and turn them into diamonds. Scientists were able to create the correct conditions in a lab to prove this occurs on Neptune and Uranus. Separately, a different group of researchers speculates that it may rain as much as 2.2 million pounds of diamonds on parts of Saturn every year. www.washingtonpost.com

It's impossible to burp in space

When you burp on Earth, gravity keeps down the solids and liquid from the food you just ate, so only the gas escapes from your mouth. In the absence of gravity, the gas cannot separate from the liquids and solids, so burping essentially turns into vomiting.

McDonald's once made bubblegum-flavored broccoli

Unsurprisingly, the attempt to get kids to eat healthier didn't go over well with the child testers, who were "confused by the taste."

There was once a \$100,000 bill

The largest note ever printed was the \$100,000 Gold Certificate (printed from December 1934 through January 1935.) They were only used in transactions between Federal Reserve Banks and the U.S. Treasury.

Myth: You'll sleep better after a nightcap

Drinking alcohol before bed may disrupt your sleep and increase wakefulness, even in healthy adults

The World by the Numbers

Biggest Boozers: Liters sold: 1. Estonia 118.4 2. Finland & Germany 99.5 3. Australia 99.4 4. Czech Republic 95.8

Nobel Peace Prize Winners: 1. US 19 2. UK 11 3. France 9 4. Sweden 5 5. Belgium & Germany 4

Most Jailbirds: 1. US 2,266,832 2. China 1,640,000 3. Russia 741,600 4. Brazil 513,802 5. India 368,998

Divorce Rate: 1. South Korea 4.6 2. Russia 4.5 3. Aruba 4.0 4. Belarus 3.9 5. Puerto Rico 3.8

Heaviest Smokers: 1. Moldova 8.9 2. Serbia 7.9 3. Russia 7.4 4. Lebanon & Slovenia 6.5

WHAT THE HECK IS IT?



WIN A MULVANEY MECHANICAL LEATHER JACKET

JUST LIKE THIS ONE



When e-mailing your entry, please write "Newsletter Contest" in the subject line to avoid our SPAM filter.

Send to: MMI@mulvaneyinc.com

If multiple correct answers are received, one winner will be selected at random.



Last Quarter's Puzzle: Air Conditioner

Vintage Kimberly Brand Personal Air Conditioner

WE HAD NO WINNERS THIS TIME !!!

GOOD LUCK ON THIS QUARTER'S MYSTERY GADGET



What did the right eye say to the left eye?

Between you and me, something smells.

WHAT'S GOIN' ON?

Sept. 28-Oct. 3	ASPE Convention	Atlanta, GA
Sept. 29-Oct. 1	AGC Conference	Arlington, VA
Oct. 3-5	IFMA World Workplace	Charlotte, NC
Nov. 14-16	Greenbuild Expo	Chicago, IL
Jan. 14-16	ASHRAE AHR	Atlanta, GA



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4 Christopher Columbus Avenue
Danbury, Connecticut 06810
203-797-8005 Fax: 203-794-1786
www.mulvaneymechanical.com

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 source solution for our
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Expertise, Efficiency, Integrity, Quality and Service
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DESIRABLE WEST-SIDE LOCATION
 4 Christopher Columbus Avenue, Unit B, Danbury, CT

- Building Type/Use: Office/Flex
- Space Available: 2,900 Sq. Ft
- Ample Parking
- Availability: Immediate
- Convenient to Route 7 and I-84, Exits 2, 3 & 4
- Air Conditioned throughout
- Zoning Class: IL-40
- City Water
- Structure: Masonry