



Standing Rock Stand Their Ground



By: Brenna McWilliams

Did you know the Standing Rock Native American tribe is protesting the contamination of the Missouri River? The Standing Rock Tribe got one million dollars from crowd-sourcing for protests to stop pipes full of oil from going under the river. How the fundraising started was inspiring: Ho Waste Wakiya Wicasa started an online fundraising account. Ho Waste Wakiya Wicasa aimed for a goal for \$5,000 and people gave much more: one million dollars!

Protesters camped out near the pipeline. Around 3 million dollars has been raised to date for the protesters. Some protesters are camping around the Missouri River, where it meets the Cannonball River. The money will go to the protesters for food and supplies for the camps.

The Standing Rock Sioux Tribe are also using the money to go to court to stop the pipelines because they violate the tribe's sacred land. Many protesters were arrested. People are giving more money to help. More than 2,000,000 dollars was raised be-

tween Thursday and Friday. Wicasa said the money goes quickly, though. Much of it has been used to keep the camps going. He said it has been a big help. Without it, Wicasa said, protesters would not have gotten as far as they have."

"Protesters have been camping in North Dakota for months. They say the pipeline will hurt lands that are very important to the Standing Rock Sioux. There are also environmental problems. The pipeline will cross under the Missouri River. The river is where the tribe gets its water. If the pipeline leaks, the water will be poisoned." Energy Transfer Partners is the name of the company building the pipeline. The company stays it's safe. I think it is dangerous and there's is proof in other states. A lot of rain caused half a million gallons to overflow in the Susquehanna River in Pennsylvania. The pipeline is an 8-inch pipeline.

Protesters need more money! Running the camp is not inexpensive. LaDonna Brave Bull Allard is a tribal historian. She said much of the money that Wicasa raised is already gone. "The money pays for food, tents and camp supplies. It also provides

money to get protesters out of jail when they are arrested. Another fund has raised money just for lawyers. The lawyers are helping the tribe stop the pipeline in court."

"The Standing Rock Sioux did not ask for money", said David Archambault. He is the tribe leader. They only decided to take money after other tribes offered. "I know the Standing Rock Sioux Tribe is not alone," Archambault said. One woman who gave 30 dollars online was Carol DiPirro. She lives in New Hampshire.

"They are saying the same thing: This is our water supply," DiPirro said. "You run a pipeline through it and it leaks, you are poisoning us." "As the states around us move forward with clean energy, New Hampshire cannot be locked into another 20-50 years of fossil fuel use that will put us at risk. I ask that you immediately put a halt on the sale of Concord Steam to Liberty Utilities and reconsider this push for gas pipeline expansion in New Hampshire. We already have several water crisis in the state with contamination, we can add any more risk to our water supply". She battled successfully water contamination with fossil fuels near New Hampshire Rivers.

The latest update is that on Sunday, Dec. 4, the U.S. Army Corps of Engineers decided not to grant access or easement under the Missouri River. The Native Americans are still camping out even though it's freezing and snowing because they are worried what the next President will do.

Transfer Energy Partners

By staff

Despite the millions of voices worldwide protesting the Dakota Access pipeline (DAPL), parent company Energy Transfer remains uncaring. CEO Kelcy Warren promised his employees that they thoroughly spoke with the Standing Rock Sioux, and that DAPL wouldn't threaten the Missouri River. However, a recent pipeline leak in Pennsylvania by Sunoco Logistics, the future operator of the DAPL,

means he's wrong. With the continuing protests, arrests in North Dakota the problem is not over.

On Oct. 20th, heavy rainfall led to the Sunoco pipeline bursting, leaking 55,000 gallons of gasoline into Wallis Run which connects to the Susquehanna River. Although the pipeline was shut down, the continuing rainfall and flash flooding made it hard to see the damage, with residents being warned against using water from the river. With the water now receded, no serious problems arose except an odor, and the Environmental Protection Agency (EPA) found the Susquehanna

ty during flash flooding overnight. Officials with Sunoco Logistics said an 8-inch pipeline was shut down after the leak was detected around 3 a.m. Friday. Officials with Pennsylvania American Water are urging communities downstream in Northumberland and Union Counties to limit water use as the extent of the leak is determined.

Sunoco Logistics and the State Department of Environmental Protection are testing water in the Susquehanna River to see if the levels of gasoline threaten drinking water.



River safe for drinking again.

Not only does the Susquehanna River provide drinking water to 6 million people along the Chesapeake Bay but it is also listed by American Rivers as the third most endangered river in the US due to fracking from the natural gas industry. This leak makes people worry about Sunoco's pipeline management because their pipelines spill frequently — with more than 200 leaks since 2010.

The same is expected to happen to the Standing Rock Sioux with DAPL, and maybe worse since Sunoco Logistics, the operator, has proven to mess up.

Gasoline from a pipeline spilled into a creek in Lycoming Coun-

ty during flash flooding overnight. DEP personnel are on site working closely with staff from Sunoco and its consultant to remediate the effects of this spill. DEP has been working on emergency plans with the three north-central water systems hurt by this spill.

There were 127 arrests from Oct. 22nd and 23rd, the Department of Justice (called upon by Standing Rock Chairman Dave Archambault to investigate the force used by law enforcement. Last week another 141 protesters were arrested — making the arrest count more than 400 since the protests began. The arrestees were placed in temporary holding cells, which many are calling dog kennels, and had numbers written on their skin in black marker. Johanna Holy Elk Face, a 63

year old diabetic woman who had high blood sugar at the time, which would have potentially led to a seizure had her treatment been delayed any longer while she was in custody.

Energy Transfer found Native American artifacts along the route and failed to report it to state within 10 days, so they get fined up to \$200,000. Between the law violations and civil abuses which appear to be increasing, and especially with Obama's presidency coming so close to an end, the problem is huge. The protesters need immediate backing if their water, tribal traditions, and livelihood have any chance.

Tesla Takes No Fossil Fuel

By: Julia Peyok

Everyone has heard of Ford and Toyota and I bet a lot of people have never heard of the car company called Tesla. Tesla has been proven to be very successful over the years because of the cars' chic look and its self driving feature. Tesla is fairly new and the company was founded in 2003 by



Elon Musk.

Tesla makes millions and millions of dollars every year because of how popular the company is. Tesla motors was founded by a group of engineers in Silicon Valley who wanted to create an electric car that operated as well as a gasoline powered car. They are hoping to influence other car companies to make electric cars because they want to discourage the use of fossil fuels, which are so bad for the environment.

Tesla has a lot more unique

features than a lot of other car brands and that is why it attracts people's attention. When people drive very fast on sharp turns in their cars, they worry that they could possibly flip over, but did you know that the Tesla has thirteen pounds of battery under the floorboard which makes it impossible for the car to flip over. The Tesla Model S and X have a self driving feature which allows the car to drive by itself without anyone's assistance.

You know how you plug your phone in at night? Well, you can do the same with your Tesla. It is so much easier than having to go all the way to the gas station, and battery-powered is so much better for the environment! Tesla has a charging port towards the back of the car and it opens and closes automatically. You can literally plug in the charger anywhere that has an outlet and charge your car. Tesla has so many smart features that other cars do not have. Tesla might become our future car. Tesla is becoming our future model for environmental purposes and hopefully other car companies will follow their footsteps because this could be good for us.

Making Sense of our Weather Patterns

By: Nathan Hoffman

Winter will be here soon and you know what that means. Snow! And lots of it too! This is because of the phenomenon known as an Indian Summer, when it is very humid during much of fall. I believe that Maryland might actually be experiencing an Indian Summer, due to the abnormal amount of heat that we have had recently. This entails lots of snow because humidity causes precipitation and when it is very humid during fall, which is right before winter, the leftover humidity causes a dramatic increase in snow during that year.

This snow will most likely be packable because humidity causes the snow particles to bond closer together. Packable snow means the chance to build snow creatures and to have snowball wars with either your family or your friends. If you don't like snow, then sorry! Supposedly, if it rains a lot during an Indian Summer, the chances of it snowing go down quite a lot. We have had an unseasonably dry fall and are down several inches of annual rainfall. Average autumn rainfall is 10.5 inches annually, but this year, Baltimore has had only 5. Unfortunately for those people, their chances of not having snow aren't looking very good.

Recently, I have heard that there were a few flurries of snow that were seen on Sunday, November 20 and tons of reports have been made about it snowing. I actually heard that on Election Day, it was supposed to snow! Also, there have been unusually high winds in Maryland recently. When there is a lot of strong wind, it also entails lots of precipitation because wind picks up water from the sea and helps the sun evaporate it as well as release it. Blizzards are actually formed when snow is blown by at



least 35 mph wind or higher and considering how strong the winds have been recently, it would not surprise me if we got a blizzard. If a blizzard occurs, then it is very likely that we will not have school, but don't go celebrating just yet. Remember, we only have a few days that we can spend out from school before days are added to the rest of the year and if my predictions are correct, we may well exceed that

limit. Anyway, for true snow fanatics like myself and many other students, we will be eagerly awaiting the chance to pelt our friends with snowballs for days to come.

cerned about freezing until next month.

Carmera Thomas, CBF Oyster Guru taught our Baltimore Lab students to conduct water quality tests

Dissolved Oxygen:
7.29 mpl
Salinity:
14.6 ppt
Ph: 8



OYSTER CARE 2016

Baltimore Lab oyster spat are doing well. High School students Julian, Ariel, James, Ricky, Jaelen and Simon lifted 25 cages out of the water and dropped them down a couple of times in order to give them a good "shake, rattle and roll". This rough treatment helped loosen the sediment which had collected on our oysters since they were planted on October 5, 2016. The water temperature is still warm, in the mid-50's, according to NOAA's Baltimore Harbor buoy today, so there is no need to be con-

cerned about freezing until next month. Carmera Thomas, CBF Oyster Guru taught our Baltimore Lab students to conduct water quality tests using a Secchi disk, created in 1865 by Angelo Secchi, and a YSI multi-parameter meter, handheld, submersible probe. We took measurements as a group and discussed our findings and the implications of our measurements for our oysters. The news from Carmera is that our group of 25 cages (in the Middle Branch of the Patapsco River) is one of eight groups to participate in this year's oyster restoration.

Location: Baltimore Yacht Basin Pier
Tide: 5 feet
Date: November 16, 2016
Time of day: 11 am
Turbidity: 3 feet
Temperature: 14.5 degrees Celsius

Baltimore Lab oysters help make up the Baltimore Healthy Harbor Initiative and CBF oyster garden program. Baltimore Lab High School students are raising spat in 25 cages in the Middle Branch of the Patapsco River watershed. This year we started off with plenty of spat and a few additional cages. Diana Duce's 5th grade Baltimore Green School and Robin Brooks' Baltimore Lab Technology students are building 10 extra cages. BLS IS a significant part of the effort to restore oysters on the Patapsco River and Baltimore harbor.

Reactions to Fidel Castro's Death

By: George McGrath

You may have heard the news, but Fidel Castro, the controversial revolutionary in Cuba, died on November 25th. This news was received with, to very mixed reactions all over the world. On one side, you have the celebrants, who were overjoyed when they heard the news. Most of the celebrants were actually Cuban immigrants that fled to Miami from Cuba because of Fidel. People were ecstatic that Fidel's dictatorship had finally ended, and celebrated Cuba's new freedom.

On the other side were the people that grieved for Fidel. They were mainly people that still lived in Cuba under Fidel's rule. Interestingly, the government sanctioned a 9-day mourning period for Fidel, and people didn't go to work and spent the days

