



**ElectroCell
Technologies**



**James Snavely, Elizabethtown Hog
Producer**



Patz Ozy On Site at Snavely Farm

Treatments are simple, and do not compromise any normal farm activities. At Snavely, the Patz Ozy takes two to three treatments per year, for 4 days each. The manure is cycled out of the pit, treated through the Ozy, and returned, killing a vast majority of pathogens and enhancing nutrient concentration.

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ElectroCell Technologies

"Green Cycle Ag Nutrient Credits™"

ElectroCell Technologies (ECT) is a PA DEP approved nutrient credit generator and aggregator, using the Patz OZY technology to provide treatments for manure storage tanks that has **resulted in significant reductions in nutrients such as P205 and Nitrogen**. Those reductions are able to be converted into **Green Cycle Ag Nutrient Credits™**. The proprietary process the machine performs is known as "electroporation". This punctures cells, killing most anaerobic pathogens in the manure and introduces single atom oxygen molecules that continue to kill anaerobes and foster the change to aerobic cell life. These opened cells provide a binding material for the P 205, which precipitates them to the bottom. After 5 years, there is still no appreciable additional level of solids in the pit contributing to lower capacity.

James Snavely:

"As a result of treating my hog manure pit with the PATZ Manure Treatment System, the nutrients that were spread on my fields were reduced significantly. My P205 was down consistently over 90%, and my Nitrogen was down nearly 50%. Therefore, for the first time ever in Lancaster County, my nutrient management plan was adjusted by the Soil Conservation Service to allow the 50% of total manure I had been exporting to be returned to my home acreage. Yet my crops and soil are more healthy than ever.

This has resulted in reduced operating costs, time spent hauling manure, and wear and tear on local roads and equipment. Also, my soil tilth and health has improved dramatically. In my third year of treatments, I was able to switch to no till planting of corn, saving me more money."

The following is a list of other significant changes noted on the Snavely farm after several treatments by ElectroCell Technologies using the Patz Ozy:

- Reductions in P205 in fields far beyond levels of normal crop uptake
- Improved biological activity
- Improved soil tilth, reducing the need for heavy cultivation, transitioning to no till as a result, reducing planting costs and sediment loss
- Improved soil porosity
- Reductions in conductivity in the soil that allow for P to move more efficiently into a greatly expanded root system due to less compacted soil profile
- Much healthier crops, based on increased brix readings, resulting in much lower levels of pests and weeds and the need for herbicides, reducing costs
- Increased yields and/or resistance to yield reductions during drought conditions.
- ***All of this, and the elimination of those offensive odors when spreading manure!***