

**WWTP SURVEY RESULTS
ATTACHMENT**

In April, 2012 the Consultant team of Nittany Engineering, EfficientC and Barton & Loguidice (B&L), representing Blair County, developed wastewater treatment plant survey questionnaires to distribute to the WWTPs of Blair County. The following information is a summary of the WWTP survey information received in Blair County:

General Survey Information

Fourteen (14) of the eighteen (18) WWTPs responded to the surveys.

The number of households serviced by the WWTPs ranged from 150 to 23,000.

Operating Information

The WWTPs plant ratings range from 375 GPD (Avg.), 600 GPD (Peak) to 6 MGD (Avg.), 15 MGD (Peak).

The annual produced sludge ranged from 650 gallons to 5,200 tons.

The average percent solids of the sludge ranged from 1.4% to 19%.

The amount of sludge disposed of on an annual basis in a landfill ranged from 56.89 tons to 6,141 wet tons.

Hollidaysburg reported an additional 20 tons of grit a year that is landfilled.

Sludge Handling

Sludge is handled in the following manners at the WWTPs in Blair County:

Solid:

- Altoona East and West
- Duncansville
- Hollidaysburg
- Logan Township
- Roaring Spring
- Greenfield

Liquid:

- Freedom Township
- Williamsburg
- Canoe Creek State Park

Both:

- Martinsburg

Laurel Highlands and Mostoller are the two landfills listed in the surveys as accepting sludge.

Four (4) WWTPs listed land application as the final method of disposal for sludge. The only land application site listed was Jeff Allison Farm.

Future Needs and Concerns

Most WWTPs reported no changes planned in the next 5 to 10 years. Williamsburg reported that a new plant will be constructed in 2013.

The Altoona Plants are concerned with the phosphorous discharge limitations. Hollidaysburg and Tyrone Borough are concerned with future landfill disposal space and costs.

Tyrone Borough would like County assistance with future sludge handling.

The following comments were reported regarding issues that may impact the sludge disposal:

- If the land application of bio-solids is prohibited, Altoona would have interest in the Cove Regional Digester project
- Tyrone Borough reports they stabilize the sludge with lime to a pH of 12
- Williamsburg reports that a new sludge press will be installed as part of the new plant

Septic & Holding Tank Waste

Altoona and Williamsburg report that they accept septic and holding tank wastes.

Duncansville will accept holding tank waste only

Altoona reports that they are willing to accept additional septic and holding tank wastes

Hollidaysburg reports that they would consider accepting additional sludge

The concerns raised in accepting septic and holding tank wastes were:

- Handling of petroleum products and other contaminants is a growing concern.
- The strength and adverse reaction in activated sludge process (filamentous bacteria)

Cost of Disposal

The cost to accept holding tank wastes ranged from \$0.0355 per gallon to \$0.065 per gallon. The cost to accept septic tank wastes ranged from \$0.065 per gallon to \$0.133 per gallon.