

BRIDGETON-NOCKAMIXON-TINICUM
GROUNDWATER MANAGEMENT COMMITTEE
Bucks County
PO Box 100
589 Lake Warren Rd
Ferndale, Pennsylvania 18921 Phone 610-847-5058
FAX 610 -847-5812

Chair:	Todd Stone	N	Secretary:	Dr. Riley Murphy	T
Vice-Chair:	Dr. Robert B. Stanfield	T	Treasurer:	Dr. Stephen F. Donovan	N
	Dr. Joan Ramage	T		Larry Reinfeld Esq.	B

Monthly Meeting Minutes for Wednesday – August 17, 2016
Tinicum Township Building, 7:30 pm

In Attendance:

Todd Stone (BNTGMC- Nockamixon) Dr. Robert Stanfield (BNTGMC –Tinicum) Dr. Joan Ramage (BNTGMC- Tinicum) Dr. Stephen Donovan (BNTGMC- Nockamixon) Larry Reinfeld, Esq. (BNTGMC-Bridgeton) Nicholas Giltrow (Bridgeton)

Minutes of July 20, 2016 were approved as amended.

Treasurer’s Report: Mary Lennon Small Jobs- \$518.50 8/10 Data collection
Bob Stanfield \$88.44 6/29 Shipping reimbursement
Xylem \$1087.76 7/29- Digital logger repair

Nockamixon:

Static Water Level Study: Continued data collection and Cloud based archiving. Committee reviewed draft letter to well owners reporting on the project. TS to make edits. Dr. Ramage has started to create a GIS map of our monitoring sites. RS to provide master list of data necessary to complete project.

Seasonal Variation Study: Dr. Donovan spot measured 14 wells in Nockamixon Township for annual spring readings. Next readings to be taken in October.

Stream monitoring Study: BNTGMC is collecting conductivity readings for points on Gallows Run, Rapp Creek, Tohickon Creek and Deep Run. No new readings

Template Groundwater Protection Ordinance- Review of suggestions for revisions needed to recommend Tinicum Groundwater Management Ordinance as BNT Template Ordinance. Committee reviewed those changes and communications with Nockamixon solicitor. Jordan Yeager reports progress on re-drafting and looks to having revisions complete by end of August.

Bridgeton:

TS welcomed Bridgeton's Nicholas Giltrow, Penn State hydrogeology student, to the meeting. Larry Reinfeld made arrangements for September 20 BNTGMC meeting to be held at Bridgeton Township Building.

Seasonal Variation Study: Dependable Yield in Fractured Rock – Mary Lennon conducted annual spring well level test. Next readings to be taken in October.

Tinicum:

Groundwater Management Ordinance – Tinicum BoS at its Dec. 15, 2015 meeting approved an ordinance to amend its zoning ordinance to add a new section that will regulate groundwater withdrawal within the township to ensure the availability of reliable, safe and adequate water supplies to support permitted land uses without causing detrimental impacts to other users by establishing the standards for the hydrogeologic evaluations to be conducted prior to drilling new wells or altering existing wells. They also passed a resolution establishing those groundwater regulations. The Board continues to review those standards. The BNTGMC has commented on inadequacies of current aquifer test standards. Committee continues to review recommended changes to ordinance, prepare a technical report of deficiencies of Tinicum's standards and offer our advice as requested. ECO Bucks has hired Dr. Art Baehr, retired USGS hydrogeologist, as technical consultant to review those standards and BNT groundwater resources and protections. He will present his review to Tinicum BoS when complete.

Seasonal Variation Study: Mary Lennon conducted annual spring well readings. Next readings to be taken in October

USGS technical assistance: -Continued review of recommendations from Dr. Dan Goode delivered at special work session with BNTGMC Jan. 6 at Tinicum Township.

“Prediction of the consequences of a 50 year drought” and “Aquifer Testing in a limited capacity aquifer”:

Recommendation to publish professionally and continue peer review: Both works still require editing.

BNTGWMC Monitoring/Research:

Trial of Aquimod as groundwater modeling software- Committee started review of technical paper from British Geological Society on modes of groundwater modeling based on water level data. Dr. Murphy continues to research what additional data we would need to run trial of Aquimod software with our data.

Outreach to Adams County Groundwater Committee-Tabled

Recommendation for public sharing of BNTGMC data via website and educational outreach-

The BNTGMC looks to share some of the knowledge and expertise gained over the past 16 years on website bntgroundwater.org. Under Dr. Murphy's leadership, the BNTGMC is starting to build the site with links to other water resources groups, a bibliography of relevant literature, links to our previous and future reports, and descriptions of some of the particular findings we've encountered regarding the water level data that we've collected over the years.

Dr. Ramage presented a future project that would provide an educational tool kit for homeowners to get a better understanding of home water use and its impact on its groundwater supply.

New Business:

No new business

The next regular BNTGMC meeting will be held on Wednesday September 21, 2016, 7:30 PM at Bridgeton Township.

Submitted by Todd Stone