



## **WARRINGTON BOARD OF SUPERVISORS MINUTES FOR SPECIAL MEETING AUGUST 8, 2016**

These minutes are a summary of an advertised Board of Supervisors special meeting to inform the public relative to the well water issues. The meeting was called to order at 7:10 PM in Central Bucks South High School, 1100 Folly Road, Warrington, PA followed by the Pledge of Allegiance to the Flag. There were approximately 320 individuals in the audience.

### **ATTENDANCE**

#### Board of Supervisors:

Shirley Yannich, Chairwoman  
Carol Baker, Vice Chairwoman  
Matthew Hallowell, Sr., Member  
Millie Seliga, Member  
Fred Gaines, Member

#### Township Representatives:

Barry Luber, Interim Township Manager  
Christian Jones, Director, Water and Sewer Dept./Assistant to the Manager  
Terry Clemons, Esq., Township Solicitor  
Mike McRee, P.E., CKS Engineering

#### Government Panel Representatives:

Dick McCoy, Chief of Environmental Clean-Up, Air National Guard  
Keith Freihofer, Environmental Restoration Program Manager, Air National Guard  
Lora Werner, Health Advisor, Agency for Toxic Substances & Disease Registry (ATSDR)  
Pat Patterson, Local Government Liaison, PADEP  
Rick Rogers, Associate Director State Programs Branch EPA

Others:

Tim Bergere, Esquire, Township Special Counsel  
Dave Fennimore, P.G., Groundwater and Environmental Consultant  
Congressman Mike Fitzpatrick, District 8<sup>th</sup>  
State Representative Katharine Watson, District 144th  
Robert Bender, Executive Director, North Wales Water Authority

### **PRESENTATIONS:**

A seven minute presentation was made by Director Christian Jones regarding an overview of impacts of Horsham Air Guard Station/Willow Grove Naval Air Station PFOS/PFOA contamination on the Warrington Township public water system. A power point text including two options the Supervisors will be addressing regarding closing all or some wells and switching to Forest Park Water Treatment Plant Water from North Wales Water Authority by increasing the supply was distributed to the audience and is attached to these minutes (Attachment A)

A seven minute presentation was made by Mike McRee, P.E. regarding water system improvement projects summary and timelines. A power point text was distributed to the audience and is attached to these minutes. (Attachment A)

A three minute presentation was made by Dick McCoy regarding the 101 wells sampled, 32 wells are above health advisory and 4 properties have connected to public water.

### **PUBLIC STATEMENTS:**

In an orderly manner the public presented their concerns to the Board of Supervisors and asked questions of the professional representatives for two and one half hours. Repeatedly blood testing for all residents of Warrington Township was requested to establish a base line along with a request for the Air National Guard to provide bottled water to all who request, including the public schools. The public encouraged the Board of Supervisors to choose Option Two, close all wells and increase the purchase of water from Forest Park Water Treatment Plant co-owned by the North Wales Water Authority. The following list was compiled by Shirley Yannich, Christian Jones and Barbara Livrone:

1. Danielle Blum, 1700 Street Road Apt. M-3

2. Lisa Lucci, 701 Larkspur Lane. Township took too long to hold this meeting.
3. Don Mahon, 2138 Garden Avenue. GAC filter
4. Richard Scott, 2439 Continental Drive.
5. Mark Kukuchka, 3270 Bristol Road. Has a private well.
6. Rachael Kuter, 2104 Georges Lane. Has a private well.
7. Neal Newman, 2404 Dogleg Drive. Testing wells.
8. Colleen Nahill, 202 Fulgens Court. Has a 3 month old child, wants Township to abandon wells.
9. Paul Fricker 2486 Orchard Place.
10. Chris Beresovoy, 2505 Cindy Lane. No to option #1. Close all wells.
11. Rosemarie Fricker, 2486 Orchard Place. Does not believe EPA.
12. Mike McGeehan, 1099 Lincoln Court. How to stop spread?
13. Marlene Haney, 2489 Orchard Place. Polled the Supervisors and audience who live in the eastern district.
14. Chad Leonard, 708 Oriole Court. Chastised the presenters for pointing fingers and rolling eyes.
15. Sue Mitchell, 416 Kansas Road. What is level in blood?
16. Jennifer Newman, 2404 Dogleg Drive. Financial impact of increasing purchase of water from NWWA.
17. Robin Anderson, 613 Grace Lane. Questioned when the ANG began to react to the pollutants.
18. Diana Scott, 2439 Continental Drive. EPA standards are too high.

19. Lucas Burke, 141 Buttercup Blvd. Is Township committed to a “zero” detection?
20. Rob Snarr, 2171 Robin Road. Will minutes of meeting be provided and when?
21. Larry Menkes, Warminster EAC member. This is a regional matter.
22. Kim Bell, 556 Grady Avenue. Level of .01, .04 in NJ, .02 in Vermont .07 in PA.
23. Jacqueline East, Warminster Resident . Questioned levels and wants blood screens. Said a demonstration will take place Aug. 14 @ Huntingdon Shopping Center.
24. Jill Brittin, 2723 Harvard Drive. Township should be doing the right thing and use NWWA. What is the impact on schools?
25. Jeff Kirschner, Warrington Township.
26. Martin Kaplan, 2040 W Street Rd. What is PFOS/PFOA number?
27. Marlene Allen, 314 Goldenrod Court. Health advisory unregulated contaminated compounds.
28. Amanda Uscenski, 741 Philadelphia Ave. Is the Township seeking grants?
29. Susan Wenzke, 2090 Dapple Drive. Well # 4 on or off-line?
30. Anthony Assetto, 639 Neshaminy Ave. EPA Superfund, are federal dollars available?

Robert Bender, Director, North Wales Water Authority stated with the increased demand for water to be provided by NWWA, the Forest Park Treatment Plant will have to undergo an expansion at the cost of approximately \$70 million.

The meeting adjourned at 10:02 PM.

Respectfully submitted,  
Shirley A. Yannich, Chair, Warrington Township Board of Supervisors

ATTACHMENT "A"



Warrington Township

Overview of Impacts of Horsham Air Guard Station (HAGS) and Willow Grove Naval Air Station (WGNAS)

August 8, 2016

Horizontal lines for notes

Scope of Presentation

- Perfluorinated Compounds (PFCs)
• Public Water Safety
• Actions Taken
• Options

Horizontal lines for notes

What are PFCs?

- Perfluorinated Compounds (PFCs)- emerging contaminant not found in nature, but not regulated by EPA as hazardous substance
• PFOA (Perfluorooctanoic Acid)
• PFOS (Perfluorooctanesulfonic Acid)
• PFCs are international problem
• US Dept. of Defense identified 644 potential sites; PFCs found in 63 public water supplies.
• 98% of people tested have some level of PFCs in blood

Horizontal lines for notes

### Sources of PFCs

- Some PFCs in Warrington's water believed to come from fire-fighting foam used at HAGS and WGNAS
- Only 5% of PFCs produced used in fire-fighting foam. Other sources:
  - Microwave popcorn bags
  - Fast food wrappers
  - Scotchguard
  - Non-stick cooking surfaces (Teflon)
  - Dental Floss
  - Water repellent clothing including Gortex
- Majority of commercial PFCs phased out of production by end of 2015

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### PFC Regulations

- As of October 2014, USEPA Provisional (short-term) Health Advisory Levels (PHAL) for PFOA and PFOS:
  - 400 parts per trillion (ppt) for PFOA
  - 200 ppt for PFOS
- May 2016, USEPA issued combined lifetime Health Advisory Level (HAL):
  - 70 ppt for PFOA and PFOS

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### One Part per Trillion

- Difficult to treat low concentrations even while using best available treatment technology
- Careful and thoughtful engineering analysis in design needed
- Until home treatment systems certified and endorsed by EPA, Warrington Township cannot recommend a system

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### Public Water Safety

- Warrington Township public water is safe
- Continue to comply with:
  - PADEP Safe Drinking Water Act
  - USEPA new combined Health Advisory Level (HAL) for PFOA/PFOS
  - All USEPA and PADEP Standards

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### Western vs Eastern District

- Western District currently served:
  - Entirely by North Wales Water Authority (NWWA) water
  - Western District generally west of Elbow Lane and Folly Road
- Eastern District currently served by:
  - Public Wells 5, 8 and 11
  - Supplemented 65% by NWWA water
  - Eastern District generally east of Elbow Lane and Folly Road

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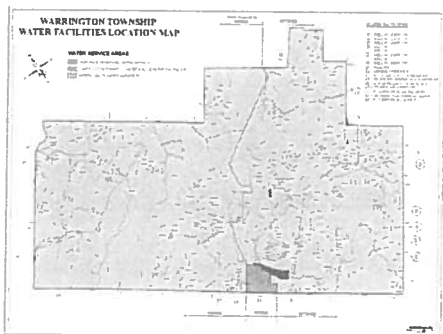
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### **Actions Taken**

- Public Wells Taken Offline:
  - 1, 2 & 6- October 2014- the day test results received indicating water exceeded PHAL
  - 3 & 9- May 2016- the day EPA released new HAL, results indicated water exceeded new HAL

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### **Cooperative Agreement**

- \$5.9 million Cooperative Agreement (CA) with Air National Guard (ANG)-in October 2015:
  - Install Granular Activated Carbon Filtration (GAC) System to bring Public Wells 1, 2 & 6 to **NON-DETECT** levels
  - Public Water Connections for private wells above HAL
  - Supplemental water purchases NWWA
  - Operating Expenses reimbursed for first 5 years

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### **CA Amendment**

- Negotiating with ANG to amend CA for:
  - Additional water purchased from NWWA
  - Two interconnects (IC) with NWWA
  - Monitoring software
  - Booster station upgrades
  - 2 GAC Filtration systems for Wells 3 & 9

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### Option One

- Purchase additional 1.4 million gallons per day (MGD) capacity from NWWA
  - To cover Wells 1, 2, 3, 6 & 9
- Remediated Wells for backup only
- Continue to run Wells 5, 8 & 11
  - Well average: 19.8 ppt

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### Option Two

- Purchase additional 2.1 MGD capacity from NWWA replacing all well water
- Remediated Wells for backup only
- All Wells offline
  - Well average: Non-detect

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### Limitations

- Infrastructure needs to be modified to bring more water in from NWWA
- Need water for Fire Protection and public safety
- Will be testing all Wells on monthly basis
- Transition to NWWA would be done in stages

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### Possible Funding Sources

- Our goal is to ensure that those responsible for PFCs, and not the rate-payers, pay the cost of remediation
- ANG should absorb all costs associated with PFOA/PFOS impacts
- We are currently working with State officials to seek other sources of funding

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### Water System Improvement Projects

#### Wells 1,2, & 6 - Costner Drive

- Granular Activated Carbon (GAC) Treatment for Removal of PFCs has been designed and submitted to PADEP for Drinking Water Supply Permit
- Permit expected to be received shortly.
- Project bidding and construction upcoming. GAC Treatment system to be completed by Summer 2017.

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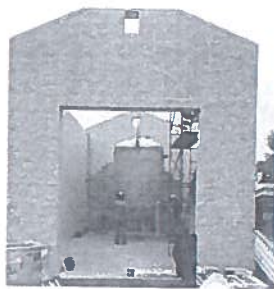
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GAC FILTER



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**Water System Improvement Projects**

Improve Existing Interconnection with NWWA

- Installation of remote monitoring capabilities for existing interconnection with NWWA to improve reliability and operator response.
- Installation will be completed in September.

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**Water System Improvement Projects**

New Interconnections with  
North Wales Water Authority

- Installation of two additional piping interconnections between the NWWA water transmission main and the Warrington Township Water System to provide redundancy and allow additional volume of water to be transferred.
- Engineering Design has begun, 1<sup>st</sup> connection to be completed this winter; 2<sup>nd</sup> interconnection to be installed by Spring.

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**Water System Improvement Projects**

- Upgrade to water booster station at Orchard Hill to improve water distribution to the northeast corner of the Township. Design has begun, completion expected in Summer 2017.
- GAC filtration of Wells 3 & 9 – Design work has begun, permitting and construction to follow with completion in 2017.
- Additional alternatives and methods to expedite projects are being considered.

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Water System Improvement Projects

- Connections of contaminated private wells to the public system.
- 25 properties identified for connection, to date, more possible
- Connections to be completed within 6 months.
- Water Main Extension in Valley Road for connection of 3 homes to be constructed by Spring 2017.

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