Anne Arundel County Department of Health
Test Results for 5 Wells on Summerfield Road
(Gambrills)

Summary of Findings
October 24, 2006

The Anne Arundel County Department of Health received the following test results from water samples collected from 5 wells serving 6 properties on Summerfield Road on October 12 and 16, 2006. The samples were analyzed by the Maryland State Laboratory.

Substance	**Detected in # of Wells**	**Amount Detected (Range)**	**EPA MCL***	**EPA SMCL****
Beryllium	3	1-5 ppb	4 ppb	N/A
Cadmium	4	5.2 – 16 ppb	5 ppb	N/A
Thallium	3	2-4 ppb	2 ppb	N/A
Aluminum	5	2.67-55.8 ppm	No MCL	.05-.2 ppm
Manganese	5	.06-2.37 ppm	No MCL	.05 ppm
Sulfate	5	98.6-1189.8 ppm	No MCL	250 ppm

***MCL (Maximum Contaminant Level)** - Highest level of the substance allowed in drinking water according to standards set by the U.S. Environmental Protection Agency (EPA).

See Health Facts on Beryllium, Cadmium and Thallium

****SMCL (Secondary Maximum Contaminant Level) –** Recommended drinking water standard set by EPA as a non-enforceable guideline for contaminants that may cause cosmetic or aesthetic effects.

- Elevated levels of aluminum may cause cloudy water and a metallic taste.
- Elevated levels of manganese may cause black to brown colored water, staining of clothes and plumbing, and a bitter metal taste.
- Elevated levels of sulfates may cause an odor and salty taste.

N/A – Not Applicable

Anne Arundel County Department of Health
Test Results for Additional 12 Wells near the BBSS Site
(Gambrills)

Summary of Findings (Round 2)
November 30, 2006

The Anne Arundel County Department of Health received the following test results from water samples collected from 12 wells near the BBSS Sand and Gravel Mine in Gambrills on October 23 and 26 and on November 29, 2006. The samples were analyzed by the Maryland State Laboratory.

Substance	**Detected in # of Wells**	**Amount Detected (Range)**	**EPA MCL***	**EPA SMCL****
Thallium	2	1-2 ppb	2 ppb	N/A
Lead (often plumbing-related)	6	6-74 ppb	15 ppb	N/A
Aluminum	6	.53-10.6 ppm	No MCL	.05-.2 ppm
Manganese	3	.08-.45 ppm	No MCL	.05 ppm
Sulfate	8	11.7-301ppm	No MCL	250 ppm

***MCL (Maximum Contaminant Level)** - Highest level of the substance allowed in drinking water according to standards set by the U.S. Environmental Protection Agency (EPA).

See Health Facts on Contaminants in Drinking Water

****SMCL (Secondary Maximum Contaminant Level) –** Recommended drinking water standard set by EPA as a non-enforceable guideline for contaminants that may cause cosmetic or aesthetic effects.

- Elevated levels of aluminum may cause cloudy water and a metallic taste.
- Elevated levels of manganese may cause black to brown colored water, staining of clothes and plumbing, and a bitter metal taste.
- Elevated levels of sulfates may cause an odor and salty taste.

N/A – Not Applicable

Anne Arundel County Department of Health
Test Results for 11 Wells in Gambrills

Summary of Findings: Round 3
April 19, 2007

The Anne Arundel County Department of Health received the following test results from water samples collected from 11 private wells in Gambrills on Nov. 30, 2006, Dec. 4, 2006, and February 8, 2007. The Maryland State Laboratory analyzed the well water samples.

Substance	**Detected in Number of Wells**	**Amount Detected (Range)**	**EPA MCL***	**EPA SMCL****
Arsenic	1	25 ppb	10 ppb	N/A
Cadmium	2	5 - 8 ppb	5 ppb	N/A
Lead *(often related to household plumbing)*	6	7 - 38 ppb	15 ppb	N/A
Thallium	3	1 - 6 ppb	2 ppb	N/A
Aluminum	11	0.31 - 3.92 ppm	No MCL	0.05 - 0.2 ppm
Manganese	5	0.06 - .14 ppm	No MCL	0.05 ppm

***MCL (Maximum Contaminant Level)** – Highest level of the substance allowed in drinking water according to standards set by the U.S. Environmental Protection Agency (EPA).

****SMCL (Secondary Maximum Contaminant Level)** – Recommended drinking water standard set by EPA as a non-enforceable guideline for contaminants that many cause cosmetic or aesthetic effects.

- Elevated levels of aluminum may cause cloudy water and a metallic taste.
- Elevated levels of manganese may cause black- to brown-colored water, staining of clothes and plumbing, and a bitter metal taste.

N/A – Not Applicable

Anne Arundel County Department of Health
Test Results for 54 Wells
(Gambrills/Odenton)

Summary of Findings: Round 4
July 31, 2007

The Anne Arundel County Department of Health received the following test results for water samples collected from 54 private wells in Gambrills from January 18 to April 23, 2007. The Maryland State Laboratory analyzed the well water samples.

Substance	**Detected in Number of Wells**	**Amount Detected (Range)**	**EPA MCL***	**EPA SMCL****
Lead *(often plumbing-related)*	21	5 - 130 ppb	15 ppb	N/A
Aluminum	21	0.1 – 2.48 ppm	No MCL	0.05 - 0.2 ppm
Manganese	1	0.06 ppm	No MCL	0.05 ppm

***MCL (Maximum Contaminant Level)** – Highest level of the substance allowed in drinking water according to standards set by the U.S. Environmental Protection Agency (EPA).

****SMCL (Secondary Maximum Contaminant Level)** – Recommended drinking water standard set by EPA as a non-enforceable guideline for contaminants that many cause cosmetic or aesthetic effects.

- Elevated levels of aluminum may cause cloudy water and a metallic taste.
- Elevated levels of manganese may cause black- to brown-colored water, staining of clothes and plumbing, and a bitter metal taste.

N/A – Not Applicable