



MARYLAND DEPARTMENT OF THE ENVIRONMENT

1800 Washington Boulevard • Baltimore MD 21230

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Robert L. Ehrlich, Jr.
Governor

Kendl P. Philbrick
Secretary

Michael S. Steele
Lt. Governor

For Heat Pump

August 4, 2004

WILLIAM ARMSTRONG
13958 TRIADELPHIA MILL ROAD
DAYTON, MD 21036-

RE: State Water Appropriation
Permit No. H01981G004(03)
Revision 03

Dear Permittee:

Enclosed is your State Water Appropriation Permit. The permittee is responsible for complying with all permit conditions. Accordingly, you are advised to carefully read the Permit and become thoroughly familiar with its requirements.

PLEASE NOTE THE CONDITION ON YOUR PERMIT REQUIRING WATER USED FOR A HEAT PUMP SYSTEM TO BE RETURNED TO THE AQUIFER FROM WHICH IT WAS WITHDRAWN.

If you have any questions, please contact this office at (410) 537-3590.

Sincerely,

MARK T. FILAR
Water Supply Program

cc: HOWARD COUNTY HEALTH DEPARTMENT

STATE OF MARYLAND
DEPARTMENT OF THE ENVIRONMENT
WATER MANAGEMENT ADMINISTRATION

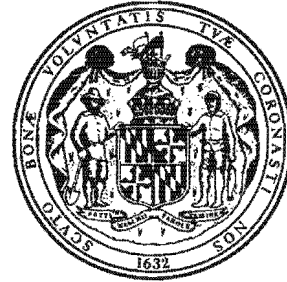
WATER APPROPRIATION AND USE PERMIT

PERMIT NUMBER: HO1981G004(03)

EFFECTIVE DATE: AUGUST 1, 2004

EXPIRATION DATE: AUGUST 1, 2016

FIRST APPROPRIATION: JUNE 1, 1982



WILLIAM ARMSTRONG

HEREINAFTER REFERRED TO AS THE "PERMITTEE", IS AUTHORIZED BY THE WATER MANAGEMENT ADMINISTRATION, HEREINAFTER REFERRED TO AS THE "ADMINISTRATION" PURSUANT TO THE PROVISIONS OF TITLE 5 OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND (1996 REPLACEMENT VOLUME) AS AMENDED, TO APPROPRIATE AND USE WATERS OF THE STATE SUBJECT TO THE FOLLOWING CONDITIONS:

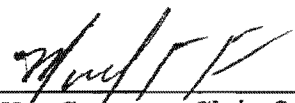
1. ALLOCATION - THE WATER WITHDRAWAL GRANTED BY THIS PERMIT IS LIMITED TO:
A DAILY AVERAGE OF 3,000 GALLONS ON A YEARLY BASIS AND
A DAILY AVERAGE OF 6,000 GALLONS FOR THE MONTH OF MAXIMUM USE.
2. USE - THE WATER IS TO BE USED FOR A RESIDENTIAL GROUND WATER HEAT PUMP SYSTEM.
3. SOURCE - THE WATER SHALL BE TAKEN FROM ONE WELL AND RETURN TO ONE WELL BOTH IN THE LOWER PELITIC SCHIST OF THE WISSAHICKON FORMATION.
4. LOCATION - THE POINT(S) OF WITHDRAWAL SHALL BE LOCATED AT 13958 TRIADELPHIA MILL ROAD (NORTHEAST SIDE), 1.5 MILES SOUTH OF DAYTON, HOWARD COUNTY, MARYLAND.

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5. RIGHT OF ENTRY - THE PERMITTEE SHALL ALLOW AUTHORIZED REPRESENTATIVES OF THE ADMINISTRATION ACCESS TO THE PERMITTEE'S FACILITY TO CONDUCT INSPECTIONS AND EVALUATIONS NECESSARY TO ASSURE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT. THE PERMITTEE SHALL PROVIDE SUCH ASSISTANCE AS MAY BE NECESSARY TO EFFECTIVELY AND SAFELY CONDUCT SUCH INSPECTIONS AND EVALUATIONS.
6. PERMIT REVIEW - THE PERMITTEE WILL BE QUERIED EVERY THREE YEARS (TRIENNIAL REVIEW) REGARDING WATER USE UNDER THE TERMS AND CONDITIONS OF THIS PERMIT. FAILURE TO RETURN THE TRIENNIAL REVIEW QUERY WILL RESULT IN SUSPENSION OR REVOCATION OF THIS PERMIT.
7. PERMIT RENEWAL - THIS PERMIT WILL EXPIRE ON THE DATE INDICATED ON THE FIRST PAGE OF THIS PERMIT. IN ORDER TO RENEW THE PERMIT THE PERMITTEE SHALL FILE A RENEWAL APPLICATION WITH THE ADMINISTRATION NO LATER THAN 45 DAYS PRIOR TO THE EXPIRATION.
8. PERMIT SUSPENSION OR REVOCATION - THIS PERMIT MAY BE SUSPENDED OR REVOKED BY THE ADMINISTRATION UPON VIOLATION OF THE CONDITIONS OF THIS PERMIT, OR UPON VIOLATION OF ANY REGULATION PROMULGATED PURSUANT TO TITLE 5 OF THE ENVIRONMENT ARTICLE, ANNOTATED CODE OF MARYLAND (1996 REPLACEMENT VOLUME) AS AMENDED.
9. CHANGE OF OPERATIONS - ANY ANTICIPATED CHANGE IN APPROPRIATION WHICH MAY RESULT IN A NEW OR DIFFERENT USE, QUANTITY, SOURCE, OR PLACE OF USE OF WATER SHALL BE REPORTED TO THE ADMINISTRATION BY THE PERMITTEE BY SUBMISSION OF A NEW APPLICATION.
10. ADDITIONAL PERMIT CONDITIONS - THE ADMINISTRATION MAY AT ANYTIME (INCLUDING TRIENNIAL PERMIT REVIEW OR WHEN A CHANGE APPLICATION IS SUBMITTED) REVISE ANY CONDITION OF THIS PERMIT OR ADD ADDITIONAL CONDITIONS CONCERNING THE CHARACTER, AMOUNT, MEANS AND MANNER OF THE APPROPRIATION OR USE, WHICH MAY BE NECESSARY TO PROPERLY PROTECT, CONTROL AND MANAGE THE WATER RESOURCES OF THE STATE. CONDITION REVISIONS AND ADDITIONS WILL BE ACCOMPLISHED BY ISSUANCE OF A REVISED PERMIT.

11. NON-TRANSFERRABLE - THIS PERMIT IS NON-TRANSFERRABLE. A NEW OWNER MAY ACQUIRE AUTHORIZATION TO CONTINUE THIS APPROPRIATION BY FILING A NEW APPLICATION WITH THE ADMINISTRATION. AUTHORIZATION WILL BE ACCOMPLISHED BY ISSUANCE OF A NEW PERMIT.
12. RETURN TO AQUIFER - THE WATER WITHDRAWN AND USED FOR GROUNDWATER HEAT PUMP OR HEAT EXCHANGE PURPOSES SHALL BE RETURNED TO THE AQUIFER FROM WHICH IT IS WITHDRAWN.
13. WATER LEVEL MEASUREMENTS - FOR ALL THE APPLICANT'S WELLS FOUR (4) INCHES IN DIAMETER OR LARGER, PUMPING EQUIPMENT SHALL BE INSTALLED SO THAT WATER LEVELS CAN BE MEASURED DURING PUMPING AND NONPUMPING PERIODS WITHOUT DISMANTLING ANY EQUIPMENT. ANY OPENING FOR TAPE MEASUREMENTS OF WATER LEVELS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 0.5 INCHES AND BE SEALED BY A REMOVABLE CAP OR PLUG. THE PERMITTEE SHALL PROVIDE A TAP FOR TAKING RAW WATER SAMPLES BEFORE WATER ENTERS A TREATMENT FACILITY, PRESSURE TANK, OR STORAGE TANK.
14. PERMIT SUPERSESSSION - THIS PERMIT HAS BEEN REVIEWED AND REVISED AND SUPERSEDES THE APPROPRIATION AND USE GRANTED BY THE FOLLOWING PRIOR PERMIT ISSUED TO:
WILLIAM ARMSTRONG & JEAN ON JUNE 1, 1992 (HO1981G004(02))

BY AUTHORITY OF THE DIRECTOR
WATER MANAGEMENT ADMINISTRATION

 8/11/04

John W. Grace, Chief
SOURCE PROTECTION AND APPROPRIATION DIV