# STATE OF DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL APPLICATION FOR A WATER ALLOCATION PERMIT

#### VIOLATIONS ARE SUBJECT TO PENALTY PROVIDED BY 7 DEL. C. CHAPTER 60

OFFICIAL USE ONLY: MAIL TO: ALLOCATIONS - WATER SUPPLY BRANCH DNREC ALLOCATION NO. \_\_\_\_\_ DRBC DOCKET NO. D-\_\_\_\_-DIV. of WATER - DNREC 89 KINGS HIGHWAY APPLICATION FEE VALIDATION --> DOVER, DE 19901 FOR INFORMATION: (302) 739-9945 RECEIVED BY PLEASE TYPE OR PRINT 1. Owner's Name <u>George Stoats</u>
Address

City\_\_\_\_\_\_State\_\_\_\_Zip\_\_\_\_Telephone # <u>302 - u 53 - 9729</u> Email Address 2. Project Name\_\_\_\_\_ 
 Address\_\_\_\_\_\_

 City\_\_\_\_\_\_\_ State\_\_\_\_\_ Zip\_\_\_\_\_\_ Telephone #\_\_\_\_\_\_\_
 3. Date of Application\_\_\_\_\_ 4. Name, address, and telephone # of geologist (or Engineer): 5. Attach a map (USGS 71/2-minute quadrangle) with accurately and clearly marked locations of all facilities (wells, streams, and pond intakes). Applications for irrigation systems must also show the acreage served by each facility. All applications must show, where appropriate, the locations of service areas, water tanks, interconnections, and property/corporate boundaries. 6. Purpose (check): \_\_\_\_\_ Public \_\_\_\_\_ Industrial Process \_\_\_\_ Industrial Cooling Irrigation \_\_\_\_ Commercial \_\_\_\_ Contaminant Recovery \_\_\_\_ Other\_\_\_\_ 7. Facility information: (attach additional sheets if needed) C. D. В. **Maximum Pump Capacity** Maximum Use **Facility Facility** (Gallons Per Minute) (Gallons Per Day) Permit No. Local ID 247420 432,000 300 GPM Home well

will be granted in the water allocation permit. Please plan carefully.

- 9. Account for all acreage which presently can be irrigated, and all additional acreage which could or will be irrigated, e.g., planned extension of spray systems, new wells, etc. List the total acreage of all land at the project site, regardless of whether the lands are or could be irrigated.
- 10. Consumptive use is the amount of withdrawn water not returned to the surface or ground waters (e.g., water to non-local sewer systems, crop up-take, evaporations, etc.).
- 11. Identify all interconnections, transfer agreements, which can or could supply water to this system.
- 12. Identify and describe any other system(s) with which an interconnection is physically possible and detail all discussions to that effect which may have occurred among the concerned parties.
- 13. Wells listed within should have completion reports if they were installed after 1969. If the application does not have completion reports available, they may be available from the drilling contractor. Pumping test data must be submitted for each well if required by the well permit or by the Division of Water. Otherwise, give <u>ALL</u> known construction and pump information for each facility (e.g., depth, screened interval, diameter, pump capacity, etc.).
- 14. Chemical and bacteriological analyses are conducted for potable supplies by the Division of Public Health, Office of Drinking Water (302) 739-5410. These are the yearly Sanitary Survey, and the Quarterly and Monthly reports for routine analyses. Any analyses appropriate for the project should be submitted.
- 15. Describe all treatment the withdrawn water will receive prior to use. Examples are but not limited to, chlorination, iron removal, aeration, filtration, fertilizer and chemigation additives, etc.
- 16. Describe all treatment the wastewater will receive prior to discharge. Examples include the various physical and biological treatments and treatment stages for the waste stream. The latest available NPDES reports on chemical and bacteriological analyses must be included. Provide analyses as appropriate for wastewater spraying projects, groundwater recovery projects, etc. If applicable, name the regional treatment facility receiving the project's wastewater.
- 17. For irrigation facilities metering refers to elapsed-time indicators on engines and motors, as well as in-line flow meters. For all other facilities, metering refers only to approved, in-line flow meters, or flow-integrators where appropriate. Metering is required and, if meters are lacking a proposed schedule for installation must be submitted for review by the Division of Water.
- 18. If service connection metering is not 100%, the schedule for 100% metering should be described via a customer break-down, including any existing service metering and recent ordinances thereto. Provide the latest available population figure along with the best projected estimate.
- 19. Describe all existing conservation measures, and all feasible measures which are planned.
- 20. Describe all existing drought emergency plans, and all feasible plans, which could be implemented in the event of a declared drought.
- 21. The <u>owner</u> or the appropriate official of the <u>owner</u> (as listed in item #1) must sign and date the application. All applications, except for agricultural irrigation, must be notarized.

These next 6 questions are specific to how your system runs for Irrigation purposes.

8. How many inches of water is required per week to meet the needs of your crop?
2 in
9. How many days would you typically spray irrigate in a week to meet the needs of item 8?
10. How many hours per day would the spray irrigation run on a typical day?
8
11. How many weeks is irrigation required during a typical growing season?
3
12. Do you require any pre/post-season irrigation to adjust soil moisture prior to planting the crop?
$\wedge o$
13. If off-peak season irrigation is required, what is the weekly water need and for how many weeks?
Na
14. Requested rates (Million Gals): 432 Day 12.96 Month 25.92 Year
Sub-Total System Total (check Sub if systems interconnect)
15. For irrigation projects only: Total tillable acreage: Irrigated acreage:
16. What is the estimated consumptive use, as a percentage of the total withdrawal?
17. For each well listed in #8 (above), attach Completion Reports and pumping test reports as specified in the Well Permit. If reports not available, attach all information about the wells or intakes.
18. Describe all treatment the withdrawn water will receive prior to use.
19. Are all facilities listed in #7 (above) individually metered? Identify those not metered and submi a proposed schedule for meter installation.

- 20. A. **Public water supply systems**: A Conservation Program which provides for the monitoring, prevention, and repair of leakage throughout the system, provides customer information relating to water conservation and water-saving devices.
  - B. Industrial, Commercial, and other water supply projects: A Conservation Program which provides for the investigation of all feasible conservation measures and provides for the implementation of those feasible as soon as possible. A description of leak-detection monitoring and all feasible process-modifications for minimizing both water usage and loss.
- 21. Drought Emergency Plan for projects with total system water withdrawal over 1.0 mgd. Attach the following plan description. (not applicable to irrigation projects).
  - A. Identification of all priority uses for water throughout the system or service area, water usage restriction schedules, implementation procedures, and any alternate sources of water.

22. AFFIDAVIT	
I, Dear of P Strufs and any plans, reports, or documents submitted with the best of my knowledge and belief.	, hereby affirm this application is application to be true and correct to the
Signature Ley & Miles Date_	
SWORN TO AND SUBSCRIBED before me the	day of
	NOTARY PUBLIC

<sup>\*</sup>Applications for withdrawal for agricultural irrigation are not required to be notarized.

MAIL TO:

WATER SUPPLY SECTION DIVISION OF WATER RESOURCES 89 KINGS HIGHWAY DOVER, DELAWARE 19901

#### STATE OF DELAWARE DEPARTMENT OF NATURE RESOURCES AND ENVIRONMENTAL CONTROL

http://www.dnrec.state.de.us/

WELL COMPLETION REPORT MUST BE RETURNED WITHIN 30 DAYS OF CONSTRUCTION. A

### WELL COMPLETION REPORT

PHONE: 302-739-9944 FAX: 302-739-7764

WELL FORMATION LOG MUST BE INCLUDED WITH THIS REPORT. -Authorization Number-

ILLECTILE OF INCOMPLETE FORMS WITH DE PETERNIE	# 4549764		
PLEASE PRINT OR TYPE - USE BLUE OR BLACK INK ONLY	DRILLING / EXCAVATION METHOD		
Permit #: 247420 Local ID: TW#    Tax Map/Parcel #: 5-021.00-017  Property Owner: 5taats, George  Water Well Contractor: ACSD WC Lie #: 5V.  Well Driller In Charge During Construction: K. Fay	□Auger □Bored □Mud Rotary □Driver □Jetted □Air Rotary □Cable Tool □Washed ■Reverse Rotary □Other (Specify):  Total Depth Of Excavation (Feet BGS): □○5'  Construction Date: ▼ ← ←		
CASING INSTALLATION: INNER OUTER	SCREEN INSTALLATION:		
Casing Top (Inches AGS):  Casing Bottom (Feet BGS):  Casing Diameter (Inches):  Casing Material:  Gravel Pack Size (#):  AGS=Above Ground Surface BGS=Belov	Screen Top (Feet BGS): Screen Bottom (Feet BGS): Screen Diameter (Inches): Screen Material: V Ground Surface Screen Slot Size (1000 of an Inch):		
WELL USE:			
□ Domestic □ Industrial □ Heat Pump Supply □ Heat Pump Recharge □ Agricultural □ Misc. Public □ Closed Loop Heat Pump □ Agricultural/Lawn Irrigation □ Other (Specify) □ Other (Specify) □ Domestic □ Heat Pump □ Closed Loop Heat Pump □ Closed Loop Heat Pump □ Other (Specify) □ Other	Pump Manufacturer: Horsepower: Horsepower: Horsepower: Rated Capacity: (GPM) Pump Intake Setting(ft. BGS): Pump Type: Submersible Jet Vertical Turbine Pump Pump Installed By: Others Date:		
176 503			
Gravel Pack: From: Feet To: Feet Below Above Ground Surface	Site Plan - If different from original application, <u>must</u> note changes such as distances from well to house, property lines, nearest road, and all nearby septic systems and central sewer lines (included suitable plot plan if available).		
Pumping Water Level:         Feet         On (Date):           After:         Hours         Pumping Rate:         GPM	RECEIVED		
Pumping Method /Device: ☐ Airlift Mechanical (Pump) Other:	19 2014		
Was A Geophysical Log Taken? ☐ Yes No If "Yes", By:	AUU 1 2 ZUIT		
WELL HEAD COMPLETION:  Type: Pitless Adapter Standard "T"  Well Pit Pad Mount  Other - Specify: Above Below Ground Surface	AUG 1 2 2014 WATER SUPPLY		
Was The Well Tag Attached In Accordance With Current Regulations?  YES □ NO If "NO", Please Explain:	I HEREBY AFFIRM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT.  Signature - Well Driller in Charge of Well Construction  Well Driller License #		
	Well Driller License # Date		

MAIL TO:

FAX:302-739-7764

WATER SUPPLY SECTION DIVISION OF WATER RESOURCES 89 KINGS HIGHWAY DOVER, DELAWARE 19901 PHONE: 302-739-9944

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WELL COMPLETION REPORT MUST BE RETURNED WITHIN 30 DAYS OF CONSTRUCTION DATE

## **FORMATION LOG**

PAGE SOF PAGES

PLEASE PRINT OR TYPE - ILLEGIBLE OR INCOMPLETE FORMS WILL BE RETURNED			
PERMIT#: 247420 LOCAL ID#:	I HWI	E	
PROPERTY OWNER: Staats, George			
WELL CONTRACTOR: ACSD	w	CLIC#: 14	
DESCRIPTION	TOP OF STRATA	BOTTOM OF STRATA	
Tap5011	0		
Med Orange Sand	1	17	
Coarse Orange Sand w Gravel & Rocks	17	35	
Gray Clay	3 S	(60	
Green Clay	40	80	
Brown Clay	80	102	
GreenClay w Fine Black Sand	102	125	
Fine Green Sand's Clay	las	140	
Coarse Brown MultiColored Sand	१५०	581	
wShell			
Med-Coarse Brown Muthoclored	183	190	
5 and w/She	((		
Coarse Brown Multi-Colored	190	EOC	
Sorda Linest	re	4	
	900.00 W0.000.00		
COMMENTS:			
AUG 1 2 2014			
WATER SUPPLY			
I HEREBY AFFIRM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT			
Signature of Well Driller in Charge of Construction  WD License #  Date			
	T TIONING I	Date	