## 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

MAIL TO:		OFFICIAL USE ONLY:			
WATER ALLOCATIONS I DNREC - DIVISION OF W 89 KINGS HIGHWAY DOVER, DE 19901 (302) 739-9945 http://www.dnrecstate.de	ATER	DNRE DRBC PLEASE TYPE OR PRIN		105-0009M1 + 05-0010M1.	
intp.j / www.minecounte.ne	.43	TERASE TITE OR TRI	NI		
1. Owner Name Art Address 664 City New	Churchmans Road	State_DE_Zip_19702	Phone #_(302) 4:	53-6935	
Address 3149 C	hesapeake City Road	llocation - Replacement we Zip 19702 Telepho			
<ol> <li>Date of Application</li> <li>Name, address, and tel</li> </ol>	10/26/2020 dephone # of geologist (or	Peter Demico 310 Landenb (engineer): (908) 507-99	erg Road, Landenberg, PA	A 19350	
5. Attach a map (USGS intakes). Applications	7 1/2 minute quadrang for irrigation systems mations, of service are	le only) with clearly mark	ked locations of all facility.	ties (wells, streams, and pond All applications must show, if operty/corporate boundaries.	
6. Purpose (check): X Commercial	Public Industrial Contamin	Process Industria ant / Recovery Other	l Cooling Irrigatio	n	
7. Facility information: (a	attach additional sheet(s)	if needed)		$\checkmark$	
A. Facility Local ID	B. Facility Permit No.	C. Maximum Pump Capacity (GPM)	D. Maximum Use (GPD)	E. Acreage 'Total/Irrigated	
Brennan IR*	198538	900	1,296,000	N/A	
Brennan 2R*	200384	750	1,108,000	N/A	
CCR 3R*	262749	850	1,224,000	N/A	
CCR 2**	102148	225	324,000	N/A	
	NID.	2000			
* - Lower Potomac Aq  8. Requested rates(MG)  Sub-Total X Sys	uifer - Existing Permit 05 : Day <u>3.492</u> Iem Total		er Potomac Aquifer - Exi Year1,095	isting Permit 05-010	
9. For irrigation projects o	nly: Total tillable acreag	e: <u>N</u> /A Ir	rigated acreage:N/	A RECEIVED	

Water Supply Section Allocation Branch

10.	What is the estimated consumptive use, as a percentage of the total withdrawal? 9.3%				
11.	Can water be transferred from facilities other than those listed in #8 (above)? Yes If so, give the name and location, the use for the water, and list average daily, monthly, and yearly flows. (Interconnections with other systems should be marked on the map attached for #6).  The Chesapeake City Road well field is part of Artesian's regional Northern New Castle County system.				
12.	Discuss the feasibility of interconnecting with other systems. (not applicable to irrigation projects).  Artesian's system is interconnected with Wilmington, Newark, New Castle, SUEZ Delaware, and Chester Water Authority.				
	For each well listed in #8 (above), attach copies of Completion Reports and pumping test reports as specified in the Well Permit. If these reports do not exist, attach all available information about the wells or intakes.  Aquifer test and completion reports for well 3R are attached. Remaining reports are on file with DNREC.				
14.	Attach copies of the latest reports on chemical and bacteriological analyses for the water from each facility. (not applicable to irrigation wells and irrigation surface-intakes).  A water quality report for well 3R is attached. Remaining reports are on file with DNREC.				
15.	Describe all treatment the withdrawn water will receive prior to use.  Treatment consists of chlorination, pH adjustment with Sodium Hydroxide, filtration, fluoridation, and phosphate addition.				
16.	Describe the method of treatment for this project's waste water. If the waste water is discharged to surface waters or lands, attach copies of the latest chemical and bacteriological analyses of the effluent, including temperature (DMRs), and where appropriate the disposal project study. Otherwise, name the treatment facility for this waste water.				
17.	Filter backwash water is recycled through the treatment process after settling. Residual iron sludge is hauled off-site for disposal. Are all facilities listed in #7 (above) individually metered? Yes. Identify those not metered and submit a proposed schedule for meter installation.				
18.	For public supply projects only: what percent of individual service-connections are metered? 100% If not 100%, give a schedule of when it will be 100%. What is the present population? in five years?				
19.	Conservation Program for projects with total system water withdrawals over of 1.0 mgd. Attach the appropriate program description. (not applicable to irrigation projects). Conservation Program is on file with DNREC.				
	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.				
20.	Drought Emergency Plan for projects with total system water withdrawal over 1.0 mgd. Attach the following plan description. (not applicable to irrigation projects). Drought Emergency Plan is on file with DNREC.				
	A. Identification of all priority uses for water throughout the system or service are, priority locations, water usage restriction schedules, implementation procedures, and any alternate sources of water.				
21.	AFFIDAVIT				
doci	I,Nicholle Taylor, hereby affirm this application and any plans, reports, or uments submitted with this application to be true and correct to the best of my knowledge and belief.				
Sign	nature Malan 1 St				
Date	10/31/2020				
SWO	DRN TO AND SUBSCRIBED before me the 31st day of October A.D., 2000				
	NOTARY PUBLIC MINIMUM				
*Ap	plications for withdrawal for agricultural irrigation are not required to be notarized.				
	RECEIVED EXPIRES OF March 16, 2024				
	NOV 0 4 2020				
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