WATER CONSERVATION AND DROUGHT OR WATER SUPPLY EMERGENCY MANAGEMENT PLAN REPORT FOR PUBLIC WATER SUPPLY SYSTEMS

PERMITTEE:				PROGRAM INTEREST NO.:			
CONTACT NAME:					DATE:		
ADDRE	ESS:						
EMAIL	ADD	RESS:					
TELEPI	HONE	NO.:					
Submit	to:	Bureau P.O. B	Code 401-04Q u of Water Allocation lox 420 on, New Jersey 08625		tting		
See you	r Wate	er Alloc	cation Permit for you	r submittal sche	dule		
	onserva	ation ar	nd water managemen			Your Water Allocation Permit requires not usually consider in this context but n	
report m	nust be origin	submit al kept	tted on an exact repli	ica of this works ference. An inco	heet, eithe omplete w	elete or update computerized forms. Yo er a photocopy or a computerized version vorksheet will be returned to you. If the should be used.	n,
I. V	WATE	ER CON	NSERVATION COM	MPONENTS			
I	A.	WATI	ER SYSTEM				
		1.	Allocation:	mgm,	_ gpm, _	mgy	
		2.	Sources of water: number of wells				
			number of surface i				
			bulk purchase	mgd,	mgm,	mgy	
		3.	Metering: raw water source finished water delivered water		(circle Yes Yes Yes	No No	

B.

4.	Date of last source meter calibration:						
5.	System Capacity:						
	treatment	mgd					
	delivery	mgd					
	storage	mg					
6.	Customer Base:						
		# of Connections	# of Meters	% of overall use			
	Residential	" Of Commettons	W OI WICKOIS	70 of overall asc			
	Commercial						
	Industrial						
	Municipal						
	Total						
7.	Interconnections:						
7.							
	existing/size						
	under construction						
	planned (5 year)						
	Interconnection Use (c	ircle one) B	ulk Emerge	ency Other (describe)			
	Agreements for use (ci	rcle one) Y	es (give details)	No			
8.	Map or diagram of the system (submit only once unless there are changes).						
ANA	LYSIS OF WATER USI	3					
1.	Demand: Report demand from the most recent year for which you have complete data the "Base Year". Note the years the data refers to where indicated.						
	USAGE		PEAK MONTH	ANNUAL			
			(mgm)	(mgy)			
	Base Year 20						
	Previous Year 20	_					
	Peak Year (of last 5)	20					
	Peak Year (of last 10)	20					
	PROJECTED US	SAGE	PEAK MONTH	ANNUAL			
	THOUSE TED ON		(mgm)	(mgy)			
	Next Year 20						
	5 Year 20						

Customer	·s:					
Estimated	l population	(2	0 year)			
Names of	municipalit	ies served				
Per Capit	a Use					
		zed data, please use B.1 - Demand.	the followin	ng calculation	ons, using data from the	
Average	$Use = \frac{(Tot)}{}$	tal annual usage*	in gallons	×% Resid	dential Use) ÷ 365	
J		Num	ber of Ped	ople Served	a	
Minimur	$Minimum\ Use = \frac{(Minimum\ month\ usage\ in\ gallons \times \%\ Residential\ Use) \div 31^{\circ}}{Number\ of\ People\ Served}$					
Mullina	Number of People Served					
(Maximum month usage in gallons \times % Residential Use) \div 31						
$Maximum\ Use = \frac{(Maximum\ month\ usage\ in\ gallons \times \%\ Residential\ Use) \div 31}{Number\ of\ People\ Served}$						
* $Usage = Total\ Diversion + Total\ Purchased - Bulk\ Sales.\ Divide\ by\ 28,30\ or\ 31,$ depending on number of days in minimum/maximum month						
		Current Year		ast Year		
Average	:	20				
Minimu	m					
Maximu	m					
	on based on on the contract of Peaks	(circle one) total	pumpage):	or	residential use only	
Projection	ns of Growth	:				
		Service Connec	etions			
new in p						
	l this year					
projecte	d 5 year					

2.

3.

4.

C. UNACCOUNTED-FOR WATER

frequency	of surveys (performed	on a regular sch	edule, as conditions
miles of ma	ains surveyed per year	·	
valves teste	ed		
hydrants te	sted		
methods er	nployed		
equipment	used		
equipment	owned/rented/borrow	ed/consultant em	ployed
Mains	Number	Size	Repaired
Mains	Number	Size	Repaired
Valves			
Hydrants			
estimate of	water saved		_
manpower	equipment available t	o make repairs _	
range plans	to reduce unaccounted	-for water (for ex	xample, over the nex
)			
e Meter Rep	air/Replacement Proc	edures	
regular sch	edule or as needed bas	sis	
average ag	e of meters in use		
	e of meters in use		

5. Calculate Unaccounted-for Water (UFW) for past *two years* (DO NOT INCLUDE ANY ESTIMATED WATER USE)

$$100 - \left(\frac{gallons\ of\ water\ billed\ *}{gallons\ of\ water\ entering\ distribution\ system} \times 100\right) = \textit{UFW}\%$$

$$100 - \left(\frac{gallons}{gallons} \times 100\right) = \frac{\% (20)}{gallons}$$

$$100 - \left(\frac{gallons}{gallons} \times 100\right) = \underline{\qquad} \% (20\underline{\qquad})$$

- 6. Estimate water supply used for fire fighting and unmetered municipal buildings. _____ mgy
- 7. Water Loss Audit (optional) / Water Loss Control

"Water loss control represents the efforts of water utilities to provide accountability in their operation by reliably auditing their water supplies and implementing controls to minimize system losses."

The following is a link to the American Water Works Associations' free water audit software: http://www.awwa.org/resources-tools/water-knowledge/water-loss-control.aspx

Software outputs meaningful indicators:

gpd / connection

gpd / mile mains

ILI (infrastructure leakage index)

Questions? Contact AWWA's Water Loss Control Committee directly.

D. WATER RATES

- 1. Attach a copy of your rate schedule or a summary of schedule.
- 2. Note any planned or proposed changes in rates.
- 3. Meter reading and billing schedule _____

^{*}Water billed may include unbilled metered water and/or unbilled authorized consumption (e.g. fire fighting)

E.	PUBLIC EDUCATION/AWARENESS					
	List e	fforts undertaken to date and those planned				
	1.	Assess public awareness of local and regional water supply problems.				
	2.	Describe and/or include samples of information distributed to water users.				
	3.	Describe activities undertaken in the past 3 years to meet with environmental committees				

he assistance givater resources.	en to school	s and civic o	rganizations to	o promote the l	est

and watershed associations to explore the concept of water conservation education.

II. DROUGHT OR WATER SUPPLY EMERGENCY MANAGEMENT COMPONENTS

A.	Management of	Localized	Water Supp	ply Prob	lems

l .	Storage, backup supplies, equipment and interconnections on standby status:				

NOTE: The following section refers to local restrictions, which may be voluntary or mandatory, as decided by local officials when necessary, to manage local shortages only. The restrictions that apply when a drought emergency is declared by the Governor are not to be included here.

2.	List ordinances that have been adopted to promote water conservation and provisions for				
	their enforcement:				

	3.	conditions: a. Drought warning
		b. Drought emergency
		c. Precipitation deficits
		d. Reservoir storage deficits
	4.	Distribution of water conservation devices/retrofit program/rebate program:
	5.	Regulations requiring reuse or recycling of water:
В.	Volun	tary Transfers Via Interconnections
	1.	Describe conditions under which voluntary transfers of water into your system are made
		via existing interconnections:
	2.	Describe existing interconnections and agreements for their use during temporary
		emergencies and during localized drought emergencies:
	3.	Give schedule for exercising interconnections:

- C. Purveyors with Water Supply Reservoirs with Capacity over 2.0 Billion Gallons ONLY;
 - 1. Attach a rule curve that can be used to establish storage level thresholds for your reservoir or note that there is one on file with the Bureau of Water Allocation & Well Permitting.
 - 2. Explain the management steps to be taken as drought conditions progress approaching drought warning or drought emergency levels of the rule curve.