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NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF WATER SUPPLY & GEOSCIENCE BUREAU OF WATER SYSTEM ENGINEERING TECHNICAL REVIEW FORM

SYSTEM SUPPLY CAPACITY ANALYSIS (N.J.A.C. 7:10- 11.5(e))

Water Purveyor

PWSID#

Municipality

A. <u>New Demands of this Project</u>

Estimated additional residential demand (N.J.A.C. 5:21-5.1):

Type/Size of Housing Unit	Water Demand per Unit (in gallons per day)	Number of Units	Average Day Demand (Number of Units x water demand per unit)	Peaking Factor	Peak Day Demand (MGD)
Total Residential Demand					

Estimated additional non-residential demand (N.J.A.C. 7:10-12.6 Table 1):

Type of Establishment	Water Demand per Unit (in gallons per day)	Number of Units	Average Day Demand (Number of Units x water demand per unit)	Peaking Factor	Peak Day Demand (MGD)
Total Non-Residential Deman					

Total New Average Daily Demand =
Residential Ave Demand _____ MGD + Non-Residential Ave Demand _____ MGD = _____ MGD (Value D1)

Total New Peak Daily Demand = Residential Peak Demand _____MGD + Non-Residential Peak Demand _____MGD =

MGD (Value D2)

ENGINEERS CERTIFICATION

I hereby certify that answers provided above are accurate and reflective of the project being considered for approval.

Signature of Engineer Professional Engineer's Embossed Seal	Date	N.J.P.E. #	Professions
Type or Print Name of Engineering Firm			I Engineer's Embossed

BWSE-PA05E (08/18) B System Supply Capacity

1. Own Sources: *

List all the water system's existing sources of water with their allocation, pumping, treatment and auxiliary power capacities:

Wells or Surface Water Source	Allocation Pumping Limits Capacity (MGD) (MGD)	Treatment Capacity (MGD)	Limiting Capacity (smaller of pumping and treatment)	Capacity Under Auxiliary Power (MGD)	Auxiliary Power Y/N			
					Permanent	Portable Dedicated	Portable Rental	
	l							
Totals (MGD)	L		_					
*Attach separate sheet in th	e same forma	t for addition	al sources	(Value 1)	(Value 2)			
System Source/Treatment Capacit	xy (value 1) =		MGD					
Largest source or Treatment comp	onent is:			at _	M	GD		

System Source/Treatment Firm Capacity (Source Capacity minus largest source or treatment component): _____(Value 3)

2. Allocation Limits

The current allocation limits for the water system's own sources:

Diversion Permit	gpm	MGM	MGY
Totals			
		(value 4)	(value 5)

3. Purchase Contracts

List all the existing Purchase Contracts:

Supplier (PWSID - PWS Name)	Total Hydraulic Capacity (MGD)	Contract Type (Bulk, Emergency)	Contract Effective Date	Contract Expiration Date	Peak Day Contract Limit (MGD)	Peak Month Contract Limit (MGM)	Yearly Contract Limit (MGY)
Total Purchase Volumes *Attach separate sheet in the same format for additional contracts						Value 7	Value 8
4. Total System Sup	ply Capacity	y					
Firm Capacity	= (Source Firr = (va	n Capacity) + alue 3) +	(Contract D (valu	aily Total) e 6)	=	MGD <mark>(v</mark>	alue C1)
Monthly Capacity	= Allocation 1 = (v	Monthly Limit value 4) +	t + Contract (valu	Monthly tota ae 7)	al	MGM <mark>(</mark> 1	value C2)
Annual Capacity	= Allo =(v	ocation Annual value 5) +	Limit + Co	ontract Annua ae 8)	al total =	MGY <mark>(v</mark>	value C3)

1. System Demands

List the water system's historic total demand for each month for the previous five years:

This demand shall be "Volume Purchased" + "Volume Diverted from Own Sources"

					Current Year
Type in Year \rightarrow					
January					
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					
Peak (MGM)					
Total (MGY)					
Peak Monthly Demand	l = (highest m	onth in the past f	ive years)		

1 euri 11 euri	(ingress mount in the pass in e fease)					
	MGM (value D4), Month, Year					
Peak Daily demand	= (Peak Monthly Demand divided by the number of days in that month)					
	= ÷ days					
Peak Yearly Demand	=MGD (value D3), Month, Year					
	= (highest yearly total in the past five years)					
	=MGY (value D5), Year					

Does the water system have any bulk Sales Contracts with other Water Systems? Yes: No:

If No, go to section C4

2. Contracts* (Sales Contracts Only)

List all the existing Sale Contracts

Supplier (PWSID - PWS Name)	<u>Hydraulic</u> <u>Capacity</u> (MGD)	<u>Contract</u> <u>Type (Bulk,</u> <u>Emergency)</u>	Contract Effective Date	<u>Contract</u> <u>Expiration</u> <u>Date</u>	Peak Day Contract Limit (MGD)	Peak Month Contract Limit (MGM)	Yearly Contract Limit (MGY)
				Totals			

*Attach separate sheet in the same format for additional contracts

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3. Constrained Capacity	Evaluation		
Constrained Monthly limit	= 90% of the Total System Monthly Sup	oply Capacity	
	= (value C2) x 0.9 =	MGM (value 13)	
Is the Peak Monthly Demand	(value D4)	_	
less than or equal to the	"Constrained Monthly Limit" (va	lue 13)? Yes:	No:
Constrained Annual limit	= 90% of the Total System Annual Supp	bly Capacity	
Is the Deals Annual Domand	= (value C3) x 0.9 =	MGY (value 14)	
less than or equal to the	"Constrained Annual Limit"(va	alue 14)? Yes:	No:
If you answered No to either of the	ne questions.		
Does the Water System have an a	pproved "Five Year Demand-Resource Ev	aluation" Report? Yes:	No:
If Yes, provide	the Letter Approval Number:		
If No, has the Water Sys	tem received prior approval to submit this	permit application? Yes:	No:
If Yes, provide	the Letter Approval Number:		

If No, this permit will be determined as Administratively Incomplete and may be Returned.

4. Previously Allocated Demands

List all the permits that have a demand associated with them that have been already approved, but not yet constructed, or are currently under review with the Bureau:

Permit Number	Permit Effective Date	Permit Expiration Date	Average Daily Demand (as defined in the permit) (MGD)	Peak Daily Demand (as defined in the permit) (MGD)
Authorized connections that do not require a SDW Permit				
Total Previously Allocated Demand				
			Value D6 V	alue D7

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D. <u>New Total System Demand:</u>				
New Estimated Total Daily Peak System Der	nand = Value D2 +	Value D3 + Value D7		
=+	+	=(ne	MGD (Value arest 1000gal i.e. 3 decimals)	T1)
New Total Monthly Peak System Demand	= Value D4 +	(Value D1 + Value D6)	x days x monthly peakin	ig factor
=+ (_ +) x 3	1 x 1.5 =	MGM (Value arest 10,000gal i.e. 2 decimals	<mark>e T2)</mark>
New Total Annual Peak System Demand	= Value D5 +	(Value D1 + Value D6)	x days	
=+(_ +) x 3	55 =(ne	MGY (Value arest 100,000gal i.e. 1 decimal	<mark>T3)</mark> l)
E. System Capacity Evaluation:				
Is the (New Total Daily Peak System Deman less than (Total System Supply Firm	d) (Val a Capacity)	ue T1) (Value C1)?	Yes:	No:
Is the (New Total Monthly Peak System Den less than (Total System Supply Mor	nand) (thly Capacity)	Value T2) (Value C2)?	Yes:	No:
Is the (New Total Annual Peak System Dema	und) (V	alue T3)		

Note that if the allocated demand associated with this and prior unconstructed permits exceeds the "constrained capacity" values then the permittee may be required via permit conditions to implement the required "Five Year Demand-Resource Evaluation"

less than (Total System Supply Annual Capacity) _____ (Value C3)?

If you have answered No to any of these three questions then the water system does not have the capacity to provide water for this permit application and <u>the application package will be returned.</u>

F. APPLICANT'S CERTIFICATION

I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information.

Type: Name

*Signature of Applicant/ Owner's Authorized Representative

No:

Yes:

Type: Position

Date of Application