

Water System Trea	tment and Distribution Classification Worksheet	Page 1 of 2		
PWS Name:			Date:	
PWS ID#: 41	PWS Type:	(C,NTNC,TNC,NP/SR)		
WTP Name:	WTP ID:	DWP Staff:		

F VV 3 ID#. 41	FW3 Type (C,NTNC,NC,NF/3K)		
WTP Name:	WTP ID: DWP Staff:		
Classification:	WT = WD = FE =		
Item		Points	
Treatment system	size (use population served <u>or</u> flow whichever is greater and round to lowest whole numb	er)	
Population Srvd	1 pt per 10,000 (max 30), 1 if < 10,000 Pop =	1 to 30	
Avg Day Demand	1 pt per 1 mgd of flow (max 30), 1 if < 1 mgd ADD =	1 to 30	
Treatment system	water source		
Groundwater	GW	3	
Surface water or Gr	oundwater Under the Influence of Surface Water SW/GU	5	
Chemical Treatmer	nt/Addition Process		
	Fluoridation	5	
	Disinfection:		
	Ultraviolet	2	
	UV with Chlorine Residual	5	
	Ammonia/Chloramination	3	
	Chlorine	5	
	Mixed Oxidants	7	
	Ozonation (on-site generation)	10	
	Residual Maintenance	N/A	
pH Adjustment			
	Slaked-Quicklime (Calcium Oxide)	5	
	Hydrated Lime (Calcium Hydroxide)	4	
	All others (hydrochloric acid, sodium hydroxide, sulfuric acid, sodium carbonate)	1	
Coagulation & Floc	culation Process		
	Chemical addition (1 point for each type of chemical coagulant or	1 to 5	
	polymer added, maximum 5 points)		
Rapid Mix Units			
	Mechanical Mixers	3	
	Injection Mixers	2	
	In-line blender mixers (static mixers, etc.)	2	
Flocculation Units			
	Hydraulic flocculators	2	
	Mechanical flocculators	3	
Clarification and Se	dimentation Process		
	Adsorption clarifier	10	
	Horizontal-flow (rectangular basins)	5	
	Horizontal-flow (round basins)	7	
	Up-flow solid contact sedimentation	15	
	Inclined-plate sedimentation	10	
	Tube sedimentation	10	
	Dissolved air flotation	10	
Filtration Process			
	Single media filtration	3	
	Dual or mixed media filtration	5	
	Microscreens/Membrane filtration	5	
	Direct filtration	5	
	Diatomaceous earth filtration	12	
	Slow sand filtration	5	
	Cartridge/bag filters	5	
	Pressure or greensand filtration	10	

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ws name:	PWS ID#: 41	
	W/TP ID:	

Item		Points
Stability or Corrosion Control		
Slaked-Quicklime (calcium	oxide)	10
Hydrated Lime (calcium hyd	droxide)	8
Caustic soda (sodium hydro	oxide)	6
Orthophosphate	·	5
Soda ash (sodium carbonat	e)	4
Aeration: Packed tower, Di	ffusers	3
Calcite		2
Others: sodium bicarbonat	e, silicates	4
Other Treatment Processes		
Aeration		3
Packed tower aeration		5
Ion exchange/softening		5
Lime-soda ash softening		20
Copper sulfate treatment		5
Powdered activated carbor	1	5
Potassium permanganate		5
Special processes		15
Sequestering (polyphospha	ites)	3
Residuals Disposal		
Discharge to lagoons		5
Discharge to lagoons and the	nen raw water source	8
Discharge to raw water		10
Disposal to sanitary sewer		3
Mechanical dewatering		5
On-site disposal		5
Land application		5
Solids composting		5
Facility Characteristics		
Instrumentation		
The use of SCADA or simila	r instrumentation systems to provide data	1
with no process control	, ,	<u> </u>
·	r instrumentation systems to provide data	3
with partial process contro	l ·	•
	r instrumentation systems to provide data	5
with complete process con		•
Clearwell size less than average day design flow		5
11	Total Points =>	
	Water Treatment Classification =>	WT-
	Water Distribution Classification =>	WD-
	Filtration Endorsement Required (Yes/No) =>	FE Req-
Classification of water treatment plants and dis	• • • •	

Classification of water treatment plants and distribution systems: Population =

WT Class **Points** WD Class **Population** Water Treatment 1 1 to 30 Water Distribution 1 1 to 1,500 Water Treatment 2 31 to 55 Water Distribution 2 1,501 to 15,000 Water Treatment 3 56 to 75 Water Distribution 3 15,001 to 50,000 76 or more Water Distribution 4 50,001 or more Water Treatment 4

Filtration Endorsement (FE) is an additional classification that applies when a water treatment plant is classified as a

Water Treatment 2 (WT2) and uses conventional or direct filtration treatment to treat surface water or

groundwater under the influence of surface water (i.e., FE endorsement required for WT2 operators, but not WT3 or higher).

Rev. 2/15/11 EH Rev. 8/24/16 to include FE changes - EH.

Rev. 10/9/18 to add WTP ID, WTP Name, and CW size - EH.

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