OHA - DWS

•	Membrane Filter Monthly Operating Report				County:				
System Name:				Month/Year:					
	S ID#: 41 -	psi							
Plant	ID: WTP -		(e.g., "A")						
		DIT	Direct Integrity Test on fi	ltar(a) [Vaa Na	or "off!	lif all filtare are offline] =			
		DII =	= Direct Integrity Test on fi	rer(s) [Yes, No,	or on	LRC [log removal]	ווטן		
		PD	R = Pressure Decay Rate RC = Log Removal Credit	PDR _{Max} [^{res} / _{min}]		4.00	Daily		
	T	1	NO = Log Nemovar Gredit			7.00			
	CFE Daily	Highest	Highest IFE [NTU]	Highoot DDD		Laurant LDV	[Y/N] or		
Day	Turbidity	CFE*	(>15 min duration)	Highest PDR		Lowest LRV _{ambient}	"off"		
	[NTU]	[NTU]		of day [^{psi} / _{min}]	(of day [log removal]			
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31									
Compliance	summary (operator t	to complete any blan	k fields)					
050/ -1-	the steer wheat all the s	Λ II 4l- : -	lite and a discount of NITHO	All IFE turbi	dity	Performance std met?	БІТ		
	ily turbidity	All turbidity readings ≤ 5 NTU?		readings ≤ 0.15		[Y/N]	ווט ן		
readings \si	NTU? [Y/N]	[Y/N]		NTU? [Y/N]		(PDR ≤ PDR _{Max} , LRV ≥ LRC)	Daily?		
CT's met daily? (p. 2)		All Cl_2 residual at $EP \ge 0.2^{mg}/_{L}$?		$PDR \leq PDR_{Max}$?		LRV _{ambient} ≥ LRC?			
- · · · · · · · · · · · · · · · · · · ·									
PRINTED NA	ME:	•			DATE:	•			
SIGNATURE		WT CERT #:							
					ONE #:				
							p. 1 of 2		

OHA-DWS

Disinfection Monthly Operating Report

System Name:	
	□ CD Log
PWS ID#: 41	Inactivation
	Required via
Plant ID: WTP -	Disinfection

		ı	ı		T	ı	ı		
Day	Minimum Cl ₂ Residual at 1 st User (C) [↑] [^{mg} / _L = ppm]	Contact Time (T) [minutes]	Actual CT C x T (Formula)	Temp [° C]	рН	Required CT (Formula)	CT Met? * [Yes / No] (Formula)	Peak Hourly Demand Flow [GPM]	Notes (e.g. "Plant Off")
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2									
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31									

 $^{^{\}bullet}\,$ If chlorine concentration at entry point < 0.2 $^{mg}/_{L}$, or CT not met, notify DWS within 24 hours.

Submit this monthly report by the 10th of following month by

mail: Drinking Water Services

PO Box 14350

Portland, OR 97293-0350

email: dwp.dmce@odhsoha.oregon.gov

fax: 971-673-0458

Definitions & Additional Information

Glossary of Terms:

CFE = Combined Filter Effluent IFE = Individual Filter Effluent

PDR = Pressure Decay Rate ≅ DIT = Direct Integrity Test LRC = Log Removal Credit

LRV = Log Removal Value **TMP** = Transmembrane Pressure

 Cl_2 = Chlorine C = chlorine C oncentration x contact T ime

LRV_{ambient}: The preferred performance metric Oregon is moving towards

LRV_{ambient} is a performance metric of the filter's *Cryptosporidium* removal efficiency; [log] units.

LRV_{ambient} is calculated using the last DIT results & operating condtions (e.g., flow, temp. & TMP)

A filter whose LRV_{ambient} is less than the LRC must be taken off-line, repaired and then re-tested.

LRV_{ambient} is an LRV calculated using most recent DIT results (e.g., PDR in ^{psi}/_{min}), current filter flowrate, water temperature, and TMP.

An LRV_{ambient} of 4-log is equivalent to 99.99% removal of *Cryptosporidium*.

The nature of membrane filtration requires higher pathogen removal rates. Therefore, 4-log is typically the minimum pathogen removal target.

Highest PDR (Pressure Decay Rate):

Enter the highest pressure decay rate in psi/min measured for DITs of all operating filters in a day.

A filter whose PDR exceeds the PDR_{Max} must be taken off-line, repaired and re-tested.

(PDR_{Max} is an Upper Control Limit (UCL) based on the DIT Pressure Decay Rate)

DIT Daily:

Enter "Y" if ALL filters operating in a given day were subjected to a DIT.

Enter "N" if ANY operating filter did not have a DIT.

Enter "Off" if ALL filters were off-line for the day.

Each filter producing water for human consumption in a given day must undergo a DIT

Highest IFE [NTU]: Must be continuously monitored.

If ever exceeds 0.15 NTU for > 15 minutes: Run a DIT, & complete Turbidity Triggered DIT form

Highest CFE [NTU]:

Data is collected for optimization purposes. Not for compliance.