

TCR	RTCR
Systems must collect samples that are representative of water throughout the distribution system & the monitoring period according to a written sample siting plan.	Systems must develop a written sample siting plan that identifies sampling sites & a sample collection schedule that are representative of water throughout the distribution system, no later than March 31, 2016. Sites may include a customer's premise, dedicated sampling station or other designated compliance sampling station.
	Routine, repeat & GWR (if the system is subject to the rule) sampling sites must be reflected in the plan.
Plans are s	ubject to state review & revision.

Seasonal Systems		
TCR	RTCR	
Seasonal PWS has the same requirements as other	All seasonal PWSs must demonstrate (certify) completion of a state-approved start-up procedure. Routine (baseline) monitoring is monthly. For reduced monitoring: Seasonal PWSs must meet the same criteria as other systems of its size and type. Sample site plan must designate the time period for	
systems of the same size & type.	monitoring based on <u>high demand or vulnerability</u> . State <u>may exempt</u> seasonal system from requirements (i.e., start-up procedures) <u>if the entire distribution system remains pressurized</u> . Systems monitoring <u>less than monthly</u> must still <u>monitor during the designated vulnerable period</u> .	

Routine Monitoring Frequency (Baseline)		
TCR	RTCR	
NCWS (GW) ≤1,000: 1 sample per quarter.		
CWS ≤1,000: 1 sample per month.	Same as current TCR.	
PWS >1,000: monthly based on population.		
Seasonal systems monitor based on the size & type of system as identified above.	Seasonal systems ≤1,000: 1 sample <u>per month</u> . Seasonal systems >1,000: <u>monthly</u> based on population.	
	40 CFR 141.856(a)(4) & (b); 141.857(a)(4) & (

Additional Ro	utine Monitoring
TCR	RTCR
PWS taking < 5 routine samples per month (PWS serving ≤4,100): • Must take at least 5 routine samples in the month after a TC+ sample.	No longer a requirement for systems that monitor at least monthly. PWSs taking samples less frequently than once per month (i.e., quarterly or annually): • Must take at least 3 routine samples in a month after a TC+ sample.
40 CFR 141.21(b)(5):	141 854(): 141 855() &

Repeat Monitoring - # of Samples		
TCR	RTCR	
PWS serving ≤1,000: 4 repeat samples for every TC+ routine sample.	All PWSs <u>must take 3 repeat</u> <u>samples</u> for every TC+ routine	
PWS serving >1,000: 3 repeat samples for every TC+ routine sample.	sample regardless of whether PWS has already triggered an assessment.	
Must <u>take additional repeats</u> for TC+ repeat samples <u>until</u> <u>trigger an MCL violation</u> and the system notifies the state.	Must take additional repeats for TC+ repeat samples <u>until trigger</u> <u>an assessment</u> and system notifies the state.	
40 CFR 141.21	(b) & 141.858(a)	

Repeat samples must be collected from the original TC+ site, at least one at a tap within 5 service connections upstream, & at least one at a tap within 5 service connections downstream. PWS can collect repeat samples using the <u>same procedure as in the TCR</u> ; or, PWS can specify in their sample siting plan either <u>fixed</u> alternative locations or <u>criteria for selecting sites</u> on a situational basis via a standard operating	Repeat Monitoring - Locations		
Repeat samples must be collected from the original TC+ site, at least one at a tap within 5 service connections upstream, & at least one at a tap within 5 service connections downstream. using the <u>same procedure as in the TCR</u> ; or, PWS can specify in their sample siting plan either <u>fixed</u> alternative locations or <u>criteria for selecting sites</u> on a situational	TCR	RTCR	
site, at least one at a tap within 5 service connections upstream, & at least one at a tap within 5 service connections downstream. PWS can specify in their sample siting plan either fixed alternative locations or criteria for selecting sites on a situational	· ·	using the same procedure as in	
procedure.	site, at least one at a tap within 5 service connections upstream, & at least one at a tap within 5	siting plan either <u>fixed</u> <u>alternative locations</u> or <u>criteria</u> <u>for selecting sites</u> on a situational basis via a standard operating	

	Treatment Technique (TT) Triggers and Level 1 & Level 2 Assessments		
	TCR	RTCR	
	Does not exist	 All systems required to <u>conduct Level 1/Level 2</u> <u>Assessment</u> when monitoring results show that the system may be vulnerable to contamination Initiated by Treatment Technique (TT) triggers, it is an evaluation to identify sanitary defects Conditions that defined a non-acute MCL violation under TCR are now used to trigger an assessment More proactive approach to public health protection compared to TCR 	
8		40 CFR 141.859(a)-(b)	

MCL Violations			
	TCR (acute MCL violation)		CR L violation)
		Routine sample	Repeat sample
	Fecal coliform-positive repeat sample.	(1) TC+	EC+
	EC+ repeat sample.	(2) EC+	TC+
	TC+ repeat sample following a fecal coliform-positive or <i>EC+</i> routine sample.	(3) EC+ routine	Fails to take <u>all</u> required repeat samples
		(4) TC+	TC+ (but no E. coli analyzed)
	10.00		
9	40 CI	FR 141.63 & 141.860(a)	

Treatment Technique (TT) Violations	
TCR	RTCR
Does not exists	 TT violations: Failure to conduct a Level 1 or Level 2 assessment within 30 days of learning of the trigger. Failure to correct all sanitary defects from a Level 1 or Level 2 assessment within 30 days of learning of the trigger or approved timeframe by the state. Failure of a seasonal system to complete stateapproved start-up procedure prior to serving water to public.
10	40 CFR 141.860(b)

TCR	RTCR Monitoring violations and reporting violations will be tracked separately as 2 different violation types
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M&R violation (tracked together as 1 violation type)	 Newly specified M, R violations: M - Failure to take every required routine or additional routine sample in a compliance period. M - Failure to analyze for E. coli following a TC+ routine sample. R - Failure to submit a monitoring report or completed assessment form after monitoring or conducting assessment correctly/timely. R - Failure to notify the state following an E. coli+sample. R - Failure to submit certification of completion of state-approved start-up procedure by a seasonal system.

PN for	MCL & TT Violations	
TCR	RTCR	
TC MCL violation/acute MCL: FC+ or E.coli +	E. coli MCL violations	Tier 1
Monthly TC MCL violation	Treatment technique (TT) violations	Tier 2
M&R (tracked as 1 violation type)	Monitoring	Tier 3
M&R (tracked as 1 violation type)	Reporting	Tier 3
12 40 CFR 141.6	.3(b) & (d): 141.202; 141.203 & 141.860(a)-(b)	9

Language TCR	RTCR
Mandatory health effects language for total coliforms & fecal coliforms/ <i>E. coli</i> .	Total coliforms health effects language changed to reflect nature of total coliforms as an indicator. The health effects language for fecal coliforms/E. coli has been replaced with health effects language for E. coli only.
40 CFR 141. Append	ix B to Subpart O

