Subcommittee review and discuss

Line or Section of Matrics	Issue addressed	Previous Language	Rationale	New Proposed Language
474-476	Clarification of sample process	Collect three (3) 100 mL samples no closer than 20 minutes apart. Acceptance Criteria and Data Monitoring Criteria as outlined in Table 2D - Routine Monitoring		Collect three (3) 100 ml samples from 3 different sprinkler heads. Acceptance Criteria and Data Monitoring Criteria as outlined in Table 2D - Routine Monitoring of Microbial Water Quality must be met.
495	Best Practice Language	No previous language	· · · · · · · · · · · · · · · · · · ·	Efforts should always be made, when using Type B water, to avoid contact with the edible portion of the crop within 21 days of a scheduled harvest.
497-505	Best Practice Language	No previous language No previous language	To add clarity and awareness	Furrow Irrigation Best Management Practices: 1. Agricultural practices, such as irrigation methods, bed configuration, etc., should be implemented in a manner to avoid water from breaching the top of the bed.
	Best Practice Language	No previous language	To add clarity and awareness	2. Agricultural practices, such as equipment movement, irrigation practices, etc., should be monitored at headland and tail ditch locations for damaged beds which may allow water to contact the edible portion of the crop.
	Best Practice Language	No previous language	· ·	3. Coordinate irrigation events with harvest, to the degree possible, to avoid saturation of the field soil to prevent excessive dirt and mud from getting on the edible portion of the crop, harvest tools (i.e. knives, gloves etc.), and harvest equipment (i.e. machines, belts, trailers etc.).
507-511		No previous language		Drip Tape Irrigation:
307 311	Best Practice Language	No previous language	To add clarity and awareness to emphasize caution with Type B water	Drip tape should be handled, stored, used, and re-used in a manner that prevents damage and contamination to the drip tape.
	Best Practice Language	No previous language	To add clarity and awareness to emphasize caution with Type B water	2. While in use, repairs to drip tape should be completed in a timely manner to prevent water contact with the edible portion of the crop.
Table 2A	day sampling	After the first sample is shown to be within acceptance criteria, subsequent samples shall be collected no less frequently than monthly at points of use		After the first sample is shown to be within acceptance criteria, subsequent samples shall be collected no less frequently than monthly (or at the next irrigation event if longer than monthly) at points of use within the distribution system.
Table 2A		Sampling Frequency:		Sampling Frequency:

Table 2A	Clarification of sampling requirement	One sample per agricultural water source shall be collected and tested prior to use if >60 days since last test of the water source. Additional samples shall be collected during use no less than 18 hrs apart and at least monthly during use	To create sampling language based on system approach and allow more flexibility in sampling	One sample, per agricultural water source, shall be collected and tested prior to use if >60 days since last test of the water source. Additional samples shall be collected during use no less than 18 hrs apart and at least monthly (or at the next irrigation event if longer than monthly) during use from points within the delivery system.
Figure 1		Sampling Frequency:		Sampling frequency:
3	Clarification of sampling requirement	Sampling Frequency: One sample per	To create sampling language based on system approach and allow more flexibility in sampling	Sampling Frequency: For Type B water, one sample per water source shall be collected and tested prior to use if >60 days since last test of the water source. Additional samples shall be collected during use, no less than 18 hours apart and at least monthly (or at the next irrigation event if greater than monthly) during use.
		be collected no less than 18 hours apart		
Figure 4	Clarification of sampling requirement	Sample monthly during use and test for generic E. coli and total coliform using a FDA-allowed method.	To create sampling language based on system approach and allow more flexibility in	Sample monthly (or at the next irrigation event if greater than monthly) during use and test for generic E. coli and total coliform using a FDA-allowed method.
Table 2E		Routine Verification of Microbial Water Q		Routine Verification of Microbial Water Quality:
	Clarification of sampling requirement	No less than one (1) sample per month per water distribution system is required under these metrics. If there are multiple		No less than one (1) sample per month (or at the next irrigation event) per water distribution system is required under these metrics. If there are multiple potential point-of-use sampling points in a water distribution system, then samples shall be taken from different point-of-use locations each subsequent sampling event (randomize or rotate sample
Right Column		potential point-of-use sampling points in a water distribution system, then samples shall be taken from different point-of-use locations each subsequent month	sampling	locations).
Table 2E		Routine Verification Sampling Frequency:		Routine Verification Sampling Frequency:
left column	Clarification of sampling requirement	Additional samples shall be collected no less than 18 hrs. apart and at least monthly during use from points within the	, ,,	Additional samples shall be collected during use no less than 18 hrs. apart and at least monthly (or at the next irrigation event if greater than monthly) during use from points within the water distribution system.
Table 2G	Table Title is Confusing with Post Harvest off Farm Use	Post-Harvest Direct Product Contact and Food-Contact Surfaces	Clarification that standard relates to on farm water use	Post-Harvest Direct Product Contact and Harvest Food-Contact Surfaces On Farm Practices Only
		Sampling procedure:		Sampling procedure:
Left column of Table 2G	Clarification	100 mL sample collected aseptically at the point of use	To create sampling language based on system approach and allow more flexibility in	Follow Type A Baseline Language and sampling requirements.
	-1 .6	Sampling Frequency:		Sampling Frequency:
Left column of Table 2G	Clarification	One sample per water source shall be collected and tested prior to use if >60 days since last test of the water source.	To create sampling language based on system approach and allow more flexibility in	Follow Type A Baseline Language and sampling requirements.

Left column of		Physical/Chemical Testing:		Physical/Chemical Testing:
Table 2G	Consultantant	Tanash Variabla	Circults and another arrivations	Full to D A. A indication control to the control to the city of th
	Complicated Testing	Target Variable: Water disinfectant (e.g., chlorine or other	lin language and procedures	Follow B to A irrigation water treatment monitoring requirements.
	procedures, ORP	disinfectant compound, ORP).	In language and procedures	
	'	Multi Pass Water Acceptance Criteria:		
Left column of	no longer in use	Chlorine		
Table 2G		> 1 ppm free chlorine after application and		
		pH 5.5 – 7.5 OR ORP > 650 mV and pH 5.5		
		- 7.5		
		Other approved treatments per product		
B: 1 : 1				
Right column of Table 2G		Single Pass vs. Multiple Pass Systems		Single Pass vs. Multiple Pass Systems
Of Tubic 20	Either/or option	Multi-pass use – Water must have non-	Both E.coli and breakpoint	Multi-pass use – Water must have non-detectable levels of <i>E. coli</i> or sufficient disinfectant to ensure returned water has
right hand	of testing	detectable levels of E. coli and/or	disinfectant need to be	no detectable E. coli
column		sufficient disinfectant to ensure returned	monitored	
Coldiiii		water has no detectable E. coli (minimally		
		1 ppm chlorine).		
Right hand		Remedial Actions:		Remedial Actions:
Column				
	Remedial Actions	No previous language	Provide language to cover out	Develop an SOP that determines what corrective actions will be required when post harvest water does not meet
	Requirements		of compliance water	acceptance criteria.
Figure 6		Acceptance Criteria		Acceptance Criteria
Figure 0	Clarification	Negative or below DL / 100 mL generic E.	Language Simpliction	Non-detect for generic E. coli / 100 mL
	Clarification	coli or >1 PPM free chlorine (pH 5.5 - 7.5)	Lunguage Simplication	Non detect for general 2. com/ 100 me
		or >650 mV ORP (pH 5.5-7.5) after contact.		
		REMOVEchange to no detect for generic		
		Action Level		Action Level
	Clarification	If water exceeding the acceptance criteria		If water exceeding the acceptance criteria has been used postharvest, notify the handler of the water issue and determine
		has been used postharvest, it is not		an appropriate sampling and testing strategy for STEC (including E. coli O157:H7) and Salmonella as described in Appendix
		appropriate microbial quality for this use.		C or discard the product affected.
		Sample and test product for STEC		
		(including E. coli O157:H7) and Salmonella		
Nour		No provious language		Water used for equiplehemical applications within 21 days of a school lad harvest
New		No previous language		Water used for aerial chemical applications within 21 days of a scheduled harvest

Ţ,	Water	Best Practices for overhead	Develop a SOP for all of the overhead chemical application components. The SOP must address items such as:
	requirements for	chemical applications, clarify	
	•		•Mater used in overhead applications (e.g., pesticide and fertilizer, etc.) within the 21-days-to-harvest window must
	overhead chemical	requirements	meet Type A and/or B→A water quality requirements
1			●Bolding tanks and equipment-mounted application tanks, manifold and boom lines, and nozzles MUST be regularly
[6	applications		inspected and properly maintained and cleaned so they do not pose a contamination risk.
			• Water treatment chemistry shall be compatible with the agricultural chemicals being applied.
			● Procedures to control pest access to the equipment (examples may include: avian deterrents, fencing, and rodent
			monitoring) must be in place. (validation can include: PCA records, label requriements, letter of guarantee)
			 ●■ rocedures to ensure storage of equipment does not pose a contamination risk must be in place.
			•Establish corrective action procedures for non-compliance scenarios, including: a) treatment failure; b) contaminated
			source water; c) Pest concerns; d) Chemical incompatibility; e) Equipment sanitation concerns
			Document all corrective measures, cleaning activities, and maintenance
			Type A Water:
F	Record Keeping	Clarify need for records	Have records that demonstrate the water used for chemical applications meets Type A source water requirements. See
(clarification		Tables 2B and 2C for historical and/or baseline water quality requirements for source water that will be used for overhead
			applications.
			Type B to A Agricultural Water Treatment
(Clarificaton	Clarify need for records	Type B water, used for overhead applications within 21 days of scheduled harvest, must be treated. With the start-up of
		,	any new treatment process it is important to evaluate all conditions that may affect water treatment efficacy and
			performance. Examples of parameters that provide valuable information about treatment efficacy in relationship to water
			quality are:
			o Turbidity
			o Total suspended solids
			o pH
			o Antimicrobial dose
			o Historical microbial monitoring data
	Clarification	Clarify need for records	Develop a written Standard Operating Procedure (SOP) for each unique application process to treat water that will be
	Cidi ilication	clarify fleed for records	
			used within 21 days of a scheduled harvest. Prior to 21 days-to-scheduled harvest conduct an initial water treatment
			assessment to establish treatment process parameters that will be monitored to ensure consistent treatment delivery and
			to demonstrate effectiveness. Repeat this assessment if a material change to your system occurs. Incorporate this
			assessment's findings into your water treatment SOP.
			A water treatment SOP should include :
			Step-by-step instructions to ensure the water treatment is correctly implemented
			Location of water sources
			Name, and suggested supplies needed
			Sanitizer used and quantity used
			Critical limits and operational limits
			Water sampling location
			Corrective actions if critical limits are not met
			•Required records
Header			
ricadei			Develop a Baseline for Water Treatment
ricadei			Develop a Baseline for Water Treatment

01 10		I=	
Clarification			A minimum of three (3), 100 mL, samples must be taken for each overhead application process (distinct water source,
			different sanitizer, different size water holding tank, etc) The three (3) samples must be taken from different treated
		1 .	water batches.
		all three (3) samples are not	
		from the same treatment	
			Acceptance criteria (generic E. coli):
Clarification		clarificaiton	All three (3) samples must be non-detect for generic E. coli
			Ongoing Monitoring:
Clarification		Clarification	Between microbiological routine testing events records must be kept that verifies that each application event is
			conducted following the parameters established during the initial setup.
			Routine Testing:
Clarification		Clarification	A minimum of ONE (1) microbilogical sample must be taken each month or at the next application event if no applications
			occur within the monthly time period.
			,,
			Acceptance Criteria :
Clarification		Clarification	Non-detect for generic E. coli / 100 mL sample
Clarification		Ciamication	into detect to general action, 100 me sumple
			Corrective Actions:
			Acceptance Criteria
			Acceptance criteria
	No previous language	New language for corrective	If microbiological testing shows that the water did not meet generic E. coli acceptance criteria, within 21 days of a
	and present temberage		scheduled harvest, perform a root cause analysis and correct the concern. The product must be tested for pathogens
			before harvest if this water was used in aerial application. Follow the product testing requirements outlined in Table 2F
		1	activity in a water was used in deciding applications, one product testing requirements outlined in subject 2.
		meet requirements.	
			Monitoring Event
			and the state of t
	No previous language	New language for corrective	If monitoring shows that the water treatment parameters are not being met, do not use the water. •Perform a
		actions whe chemical	corrective action to assure the water treatment is effective before using the water. •Take a microbiological
		application water does not	sample to verify that the treatment was effective and have that result as part of the corrective action documentation.
		meet requirements.	•If the verification microbiological sample does not meet acceptance criteria perform a root cause analysis and correct
			the treatment process. Product must be tested for pathogens before harvesting. •Follow
		1	Table 2F for product testing requirements.
	Clarification	Clarification Clarification Clarification No previous language	treatment is effective over multiple treatment events and all three (3) samples are not from the same treatment Clarification Clarification Clarification Clarification Clarification Clarification Clarification Clarification Clarification No previous language New language for corrective actions whe chemical application water does not meet requirements. No previous language New language for corrective actions whe chemical application water does not meet requirements.