Appendix I: Environmental Assessment Form



Kentucky Department for Public Health Foodborne Illness Environmental Health Assessment Report Kentucky Public Health Environmental Assessment Identification: **EA Information** Short Description: Outbreak Year: **Data Collector** Name Data Collector: Job Function: Agency Type: Collector Received Assessment Training Date of Assessment **Establishment Information** Establishment Name: Type of Facility: County: Address: Zip: Restaurant Date Complaint Received: Grocery Complaint Short Description: Healthcare Daycare Date of Suspected Meal: School Suspected Meal Short Description: Detention Center Private Home Implicated/Suspected Pathogen: Number of Persons ill: Other Implicated/Suspected Food(s): 1



I	EA ID: Outbreak Year:	\bigcirc
		Kentucky Public Health
En	vironmental Health Assessment Checklist	
Int	erview and Document Collection	
	Conduct interview and assessment with Person in Charge (PIC) Inform the PIC of the objectives of the assessment Obtain a list of food employees with contact numbers Obtain food employee work schedule Interview food employees about food preparation practices Interview food employees for evidence of illness Interview ill food employees to determine common exposures Determine food employee duties Obtain a copy of the menu of the foods served including daily specials that may not be Obtain the suppliers' receipts/invoices for the suspect foods Collect copies of actual facility information, written policies, invoices, labels, and other	
	Ikthrough and Observation	
	Conduct a walkthrough Observe all operations for product or process in question Collect leftover food samples and send to state lab for testing, if available. Obtain origi Observe general food preparation practices Collect photographic evidence and other sources of objective data that could be used t points (i.e. temperature logs, test results, records of sanitizer taken, etc.) If raw oysters are involved, obtain tag(s) from suspected lot(s). If possible, collect 10-12 lot(s) and contact your regional foodborne disease epidemiologist	o assess process contro
Ass	essment and Observation of Food Flow	
	Assessment of suspect food or process Develop and attach a facility layout diagram, if applicable Summarize and determine contributing factors Develop a flow chart or food flow diagram for the implicated food item or ingredient to information about each step in the food handling process Conduct a trace back of suspect foods, if warranted Identify the source of suspect foods	o capture detailed
Fol	low-up and Finalization of Assessment	
	Recommend actions to prevent future outbreaks	
	Recommend actions to prevent future outbreaks Initiate and document corrective actions	
		2



Were any food employees ill in the two weeks prior to the suspected event? YES NO Did any food employee(s) become ill in the two weeks after the suspected event? YES NO Does the facility have a sick leave policy? YES NO Were any clinical specimens collected from food workers? YES NO Were any food/water samples taken? YES NO Does the facility routinely track and document temperatures or have an HACCP program? YES NO Does the facility have a bare-hand contact with ready to eat (RTE) food policy? YES NO	Porcon in Charge Interview	/For any "Vos" collect documentation or ovidence from facility/		
Were any similar complaints received? If yes, collect information available YES NO Were any food employees ill in the two weeks prior to the suspected event? YES NO Did any food employee(s) become ill in the two weeks after the suspected event? YES NO Does the facility have a sick leave policy? YES NO Were any food/water samples collected from food workers? YES NO Were any food/water samples taken? YES NO Does the facility routinely track and document temperatures or have an HACCP program? YES NO Does the facility have a bare-hand contact with ready to eat (RTE) food policy? YES NO	<u>v</u>			
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Were any food/water samples taken? Image: YES NO Does the facility routinely track and document temperatures or have an HACCP program? Image: YES NO Does the facility have a bare-hand contact with ready to eat (RTE) food policy? Image: YES Image: NO	Does the facility have a sick	leave policy?	□ YES	□ NO
Does the facility routinely track and document temperatures or have an HACCP program? YES NO Does the facility have a bare-hand contact with ready to eat (RTE) food policy? YES NO	Were any clinical specimens	s collected from food workers?	☐ YES	□ NO
Does the facility have a bare-hand contact with ready to eat (RTE) food policy?	Were any food/water samp	les taken?	□ YES	□ NO
	Does the facility routinely tr	ack and document temperatures or have an HACCP program?	□ YES	🗆 NO
	Does the facility have a bare	e-hand contact with ready to eat (RTE) food policy?	□ YES	🗆 NO
Does the facility have a glove-hand contact with ready to eat (RTE) food policy?	Does the facility have a glov	e-hand contact with ready to eat (RTE) food policy?	□ YES	□ NO
Do you have an employee health policy?	Do you have an employee h	ealth policy?	□ YES	□ NO
Are you certified food protection manager?	Are you certified food prote	ection manager?	□ YES	□ NO

Vere any food employees ill in the two weeks prior to the suspected event? Vere you ill in the two weeks prior to the suspected event? id any food employee(s) become ill in the two weeks after the suspected event? id you become ill in the two weeks after the suspected event? ioes the facility have a sick leave policy? id any food employee(s) work while sick?	YES YES YES YES YES	
id any food employee(s) become ill in the two weeks after the suspected event? id you become ill in the two weeks after the suspected event? oes the facility have a sick leave policy?		
id you become ill in the two weeks after the suspected event? Noes the facility have a sick leave policy?	□ YES	
oes the facility have a sick leave policy?		🗆 NO
id any food employee(s) work while sick?	☐ YES	□ NO
a dry rood employee(s) work while slok.	□ YES	
id you work while sick?	□ YES	🗆 NO
oes the facility routinely track and document temperatures or have an HACCP program?	□ YES	🗆 NO
oes the facility have a bare-hand contact with ready to eat (RTE) food policy?	☐ YES	🗆 NO
oes the facility have a glove-hand contact with ready to eat (RTE) food policy?	□ YES	



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Valkthrough and Observations In-site Investigation				
Y (Yes) N (No) N/A (Not Applicable) N/O (Not Obse		_		
Inadequate/Improper hand washing	ΠY		□ N/A	
Food employees have visible cuts, burns, or infected sores on hands/arms	□ Y		□ N/A	
Bare-hand contact by a food worker who is suspected to be infectious	□ Y		□ N/A	
Glove-hand contact by a food worker who is suspected to be infectious	<u> </u>		□ N/A	
Food or water not from approved sources	□ Y		□ N/A	
Inadequate protection of suspected food(s)/Improper food storage	ΩY		□ N/A	
Insufficient cold holding time/temperature(s) of suspected food(s)	□ Y		□ N/A	
Prolonged cold storage (more than 7 days) of suspected food(s)	□ Y		□ N/A	
Improper thawing of suspected food(s)	ΩY		□ N/A	
0. Insufficient cooking time/temperature(s) of suspected food(s)				
1. Insufficient cooling time/temperature(s) of suspected food(s)	ΩY		□ N/A	□ N/0
2. Insufficient reheating time/temperature(s) of suspected food(s)	□ Y			
Insufficient hot holding time/temperature(s) of suspected food(s)	ΠY		□ N/A	□ N/0
4. Major equipment malfunctions or facility operations failures	Y		□ N/A	□ N/0
5. Calibrated food thermometer not available	ΠY		□ N/A	□ N/0
5. Cross-contamination of RTE foods with raw ingredients	ΠY	ΠN	□ N/A	□ N/0
7. Cross-contamination of ingredients – Workers/Equipment/Utensils/Cloths	<u> </u>		□ N/A	□ N/0
Improper cleaning and sanitization of equipment/utensils/food contact surfaces	ΠY		□ N/A	□ N/0
9. Food additives not approved or not properly used	□ Y		□ N/A	□ N/0
0. Toxic substances identified, stored and used			□ N/A	□ N/0
1. Addition of excessive quantities of ingredients that are toxic in large amounts	ΩY		□ N/A	□ N/0
2. Not compliant with variance, specialized process or HACCP Plan	ΩY		□ N/A	□ N/0
3. Insufficient/Improper use of chemical processes designed for pathogen destruction	□ Y		□ N/A	□ N/0
4. Person in charge not assigned, knowledgeable, or performing duties/responsibilities	ΠY		□ N/A	□ N/0
5. Food employees not knowledgeable about food safety or employee health reporting	□ Y	□ N	□ N/A	□ N/0
6. Consumer advisory requirements not posted, if applicable	ΠY	ΠN	□ N/A	□ N/0
7. Insects, rodents or animals	ΩY		□ N/A	□ N/0
	□ Y	ΠN	□ N/A	□ N/0
8. Toilet facilities not properly constructed, supplied and cleaned			□ N/A	□ N/0
9. No proper date marking and disposition	ΩY		L IN/A	
	□ Y □ Y			

Image Source: Kentucky Department for Public Health Food Safety Branch



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EA ID: Outbreak Year:		Kentucky Public Health
Assessment and Observation	of Food Flow	
Assessment of Implicated/Suspect Food or		scribe the food flow for the implicated
food item(s) or ingredient(s) to capture detailed in who prepared what and when. Note size of contain	nformation about each ster	in the food handling process, including
a separate assessment of each implicated/suspect	ted food, if applicable.	
Food Source:		
Date Received:	Supplier/Distribu	itor:
Brand Name:	Size and Package	е Туре:
Product Name:		
Manufacturer:		
Condition Received:		
Temperature(s):		
Storage:		
Temperature(s):		
Temperature(s): Preparation:		
Temperature(s): Cooking:		
cooking.		
Temperature(s):		
Cooling:		
Time/Temperature(s):		
Reheating:		
Temperature(s):		
Holding:		
42 1990		
Time/Temperature(s): Assembling/Plating (including garnishing):		
Assembling/ Plating (including gamisning).		
Temperature(s):		
Service:		
Temperature(s):		



EA ID:	Outbreak Year:	67
1213.0734 		Kentucky Public Health
Follow-up	and Finalization of Assessment	
Recommended A	ctions to prevent future outbreaks:	
Initiate and Docu	ment Corrective Actions:	
*		
		6



ollow-up Survey		
ease complete this follow up survey to ensure all neces	sary data for this assessment is collected.	
utbreak - General Characterization Did this outbreak span multiple states?	() Yes	
Did tins outbreak span multiple states:	O No	
What activities were conducted during the outbreak investigation to try to identify the contributing factors? (Check all that apply)	 Assumed based on etiology Clinical sampling Environmental sampling Epidemiologic investigation (case-control or cohort study) Food preparation review Food sampling Interviews with cases (but not controls) Interviews with establishment manager(s) Interviews with establishment worker(s) Observation of general food preparation activities during establishment visit Routine inspection 	
What control measures were implemented?	Traceback Other (Please describe) Changed operational practice	
(Check all that apply)	© Cleaned and sanitized/disinfected restaurant © Closed restaurant © Discarded food © Embargoed food products © Excluded ill/infectious workers © Public notification © Re-trained or trained food worker(s) © Repaired/replaced/removed equipment © Other (Enter a new value)	



Fo	ollow-up Survey		
	ase complete this follow up survey to ensure all necess	sary data for this assessment is collected.	
	Itbreak - General Characterization Did this outbreak span multiple states?	() Yes	
		⊖ No	
Ū,	What activities were conducted during the outbreak	Assumed based on etiology	
	investigation to try to identify the contributing factors? (Check all that apply)	 Clinical sampling Environmental sampling 	
	(Check all that apply)	 Environmental sampling Epidemiologic investigation (case-control or 	
		cohort study)	
		Food preparation review	
		Food sampling	
		Interviews with cases (but not controls)	
		Interviews with establishment manager(s)	
		Interviews with establishment worker(s)	
		Observation of general food preparation	
		activities during establishment visit Routine inspection	
		Traceback	
		Other (Please describe)	
a,	What control measures were implemented?	Changed operational practice	8
	(Check all that apply)	Cleaned and sanitized/disinfected restaurant	ta
		Closed restaurant	
		Discarded food Embargoed food products	
		Excluded ill/infectious workers	
		Public notification	
		Re-trained or trained food worker(s)	
		Repaired/replaced/removed equipment	
		I Other (Enter a new value)	



Contributing Factors	
 4) Which contributing factor was identified? C1 - Toxic substance part of the tissue C2 - Poisonous substance intentionally/deliberately added C3 - Poisonous substance accidentally/inadvertently added (e.g., sanitizer or cleaning compound) C4 - Addition of excessive quantities of ingredients that are toxic in large amounts (e.g., niacin poisoning in bread) C5 - Toxic container (e.g., galvanized containers with acid foods) C6 - Contaminated raw product-food was intended to be consumed after a kill step C7 - Contaminated raw product-food was intended to be consumed after a kill step C8 - Foods originating from sources shown to be contaminated or polluted (such as a growing field or harvest area) (e.g., shellfish) C9 - Cross-contamination of ingredients (cross-contamination does not include ill food workers) C10 - Bare-hand contact by a food handler/worker/preparer who is suspected to be infectious (e.g., with ready-to-eat-food) C11 - Glove-hand contact by a food handler/worker/preparer who is suspected to be infectious (e.g., with ready-to-eat-food) C12 - Other mode of contamination (excluding cross contamination) by a food handler/worker/preparer who is suspected to be infectious C13 - Foods contaminated by non-food handler/worker/preparer who is suspected to be infectious C14 - Storage in contaminated environment (e.g., storeroom, refrigerator) C15 - Other source of contamination (please describe) 	 P1 - Food preparation practices that support proliferation of pathogens (during food preparation) P2 - No attempt was made to control the temperature of implicated food or the length of time food was out of temperature control (during food service or display of food) P3 - Improper adherence of approved plan to use time as a public health control P4 - Improper cold holding due to malfunctioning refrigeration equipment P5 - Improper cold holding due to an improper procedure or protocol P6 - Improper hot holding due to malfunctioning equipment P7 - Improper hot holding due to improper procedure or protocol P8 - Improper/slow cooling P9 - Prolonged cold storage P10 - Inadequate modified atmosphere packaging (e.g., vacuum-packed fish, salad in gas-flushed bag) P11 - Inadequate processing (e.g., acidification, water activity, fermentation) P12 - Other situations that promote or allow microbial growth or toxic production (please describe) S1 - Insufficient time and/or temperature during cooking/heat processing (e.g., roasted meats/poultry, canned foods, pasteurization) S2 - Insufficient time and/or temperature during reheating (e.g., sauces, roasts) S3 - Insufficient or improper use of chemical processes designed for pathogen destruction S5 - Other process failures that permit the agent to survive (please describe)



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	Outbreak Year:	К	entucky Pub
E	stablishment		
5)) Number of visits to the establishment to complete this environmental assessment		
6)	Number of contacts with the establishment other than visits (phone calls, interviews with staff, email, etc.) to complete this environmental assessment:		
7) If applicable, how many critical violations/priority items/priority foundation items were noted during the	Server ditanistio-rock ordinitie	
8	last routine inspection?) Was a translator needed to communicate with the	O Yes	
N	manager or staff during the environmental assessment? Ianager Interview	O No	
9)) How long was the interview(s)?		
1	0) Approximately how many meals are served here daily?	<u>x</u>	4). 1911 - 1911 - 1912)
1	1) What is the establishment's busiest day?		24
15250	2) Are any foods prepared or partially prepared at a commissary or other location?		
-	bservation 3) How long was the observation(s)?		
1	A Form Feedback	Participant of the state of the	
I CALANC	 A Form Feedback 4) How easy was the online environmental assessment form to use? 	 Very Easy Somewhat Easy Not Easy Somewhat Difficult Very Difficult 	
1	5) How useful has the online EA form been for you?	 Very Easy Somewhat Easy Not Easy Somewhat Difficult Very Difficult 	196
1	6) How likely are you to use this form by default in the future?	 Very Easy Somewhat Easy Not Easy Somewhat Difficult Very Difficult 	
1	 Please provide your thoughts or feedback on the EA form to help us improve this tool in the future. 		

