

National Outbreak Reporting System



Waterborne Disease Transmission

This form is used to report waterborne disease outbreak investigations. This form has 6 parts, indicated by tabs at the top of each page. Part 1 asks for the minimum or basic information about the outbreak investigation. Part 2 asks for epidemiological data and clinical specimen test results. Parts 3, 4, 5 and 6 collect information about types of water exposure (treated recreational water, untreated recreational water, untreated recreational water, and water not intended for drinking/unknown intent). Only 1 of these 4 water exposure parts should be completed for an outbreak investigation report.

CDC USE ONLY

CDC Report ID	State Report ID

Form Approved

					OME	3 No. 0000-0000
General Section						
Primary Mode of Transmission (check one)						
☐ Food (Complete CDC 52.13)		□ Person-to-perso	n (Complete CD	C 52.13)		
☐ Water (Complete tabs for General, Water-General and of water exposure)	d type	☐ Environmental of (Complete CDC 52.		other than f	ood/water	
☐ Animal contact (Complete CDC 52.13)		□ Indeterminate/O	ther/Unknowr	n (Complete C	DC 52.13)	
Investigation Methods (check all that apply)						
☐ Interviews only of ill persons ☐ Case-control study ☐ Cohort study ☐ Food preparation review ☐ Water system assessment: Drinking water ☐ Water system assessment: Nonpotable water Comments	er	☐ Treated or untre☐ Investigation at ☐ Investigation at ☐ Food product or☐ Environment/food☐ Other	factory/produc original source bottled water	tion/treatme e (e.g., farm traceback	ent plant	
Dates (mm/dd/yyyy)						
Date first case became ill (required)			Date last c	ase became	ill/	_/
- · · · · · · · · · · · · · · · · · · ·			- · · · · · ·		//	
Date of report to CDC (other than this form)/_	/			·		
Date of notification to State/Territory or Local/Tribal						
Geographic Location						
Reporting state: Exposure occurred in multiple states Exposure occurred in a single state but cases Other states: Reporting county: Exposure occurred in multiple counties in reporting counties in a single county but case of the counties:	orting state		ting state			
City/Town/Place of exposure:						
Do not include proprie	etary or priva	ate facility names				
Primary Cases						
Number of Primary Cases			Sex (estimated	d percent of	the primary cas	ses)
# Lab-confirmed cases		(A)	Male			%
# Probable cases		(B)	Female			%
# Estimated total primary ill (if greater than sum A+B)						
	# Cases	Total # of cases for whom info is available	Approximate p	ercent of prim	ary cases in eac	h age group
# Died			<1 year	%	20–49 years	%
# Hospitalized			1–4 years	%	50-74 years	%
# Visited Emergency Room			5–9 years	%	≥ 75 years	%
# Visited health care provider (excluding ER visits)			10-19 years	%	Unknown	%
DC 52.12 Rev. 03 2008		National Outbreak Reporting System				CS115923

General	on of Illnoon Signo	or Symptomo fo	or Drimory C	oooo onl			
Incubation Period, Duration		or Symptoms it				oivolo or	muomuioto comito)
Incubation Period (circle ag	opropriate units)	Min House Days		n iliness (among recovered cases-		
Shortest		Min, Hours, Days	Shortest				in, Hours, Days
Median		Min, Hours, Days					in, Hours, Days in, Hours, Days
Longest Total # of cases for whom info i	o ovojloblo	Min, Hours, Days		oo for whor	n info is available	IVI	III, I louis, Days
Unknown duration of illness	s available		Unknown d				
Signs or Symptoms (*refer	to terms from appendix	c. if appropriate, to o					
Feature		# Cases with sign			Total # cases for whom i	info avai	lable
Vomiting							
Diarrhea							
Bloody stools							
Fever							
Abdominal cramps							
HUS							
Asymptomatic							
*							
*							
*							
Secondary Cases							
Mode of Secondary Transmission	(check one)		Number of Se	condary Cas	ses		
□ Food			# Lab-confi	irmed seco	ondary cases		(A)
□ Water			# Probable	secondary	cases		(B)
☐ Animal contact☐ Person-to-person					ases (if greater than sun	. A . B)	
□ Environmental contamination	er						
☐ Indeterminate/Other/Unkno			Total # of c	ases (Prima	ary + Secondary)		
Environmental Health Spe	ecialists Network (if	applicable)					
EHS-Net Evaluation ID: 1.) _		_ 2.)			3.)		
Traceback (for food and bottle	ed water only, not public	: water)					
\Box Please check if traceback c	onducted						
Source name	Source type	Locatio	n of source	Commer	nts		
(If publicly available)	(e.g. poultry farm, tomato processing plant, bottled		Country				
	water factory)						
Recall							
☐ Please check if any food or	bottled water product v	vas recalled					
Type of item recalled:							
Comments:							
Reporting Agency							
Agency name:			E-mail:				
Contact name:							
Phone no.:			rax no.:				
	ortant aspects of the outb en, immunocompromised		ove. Please indic	cate if any a	dverse outcomes occurred	in specia	al populations

	Water-Gene	eral									
Waterborne Disease and Outbreaks - General Type of Water Exposure (check ONE box)											
Type of water Exposure (check ONE	box)									
□ Water intended for recreational purposes – treated venue (e.g., pool, spa/whirlpool/hot tub, spray pad) □ Water intended for recreational purposes – untreated venue (e.g., freshwater lake, hot spring, marine beach)						☐ Water intended for drinking (includes water used for bathing/showering)			drinking of intent (e.	☐ Water not intended for drinking or water of unknown intent (e.g., cooling/industrial, occupational, decorative/ display)	
Geographic Location					Sy	mptoms			Route of	Entry	
Percent of primary cases liv	ing in repo	rting state :		%		r each cate rsons with:		licate # of			
Associated Events					Gas	strointestina	l sympto	ms/	_		
Man average and sisted wi	i.lif	:	a tha a viva av O		con	nditions			□ Ingestion	on	
Was exposure associated with a specific event or gathering? ☐ Yes ☐ No ☐ Unknown						spiratory syr nditions	mptoms/		_ ☐ Contac	t	
If Yes, what type of event or gathering was involved?						n symptoms	conditio/	ns	_ ☐ Inhalati	ion	
						symptoms/	condition	ns	_ □ Other, s	specify:	
					Eye	e symptoms	condition/	ns	-		
If outbreak occurred during a defined event, dates of event:					Neurologic symptoms/				_ □ Unknov	wn	
					Wo	und infectio	ns		_		
Start date:// End date://				1	ner, specify (-		_			
(mm/dd/yyyy) (mm/dd/yyyy)					hep	oatitis A, lept	tospirosis	s):			
Epidemiologic Data								_			
Estimated total number of	-		•								
2. Were data collected from If No or Unknown , we				⟨? □ \	Yes (s	specify in ta	ble belov	v) □ N	lo	□ Unknown	
shared by persons			non source		Yes				lo	□ Unknown	
Exposure (Vehicle/Setting)	Total #	# III	Total # Not	# III No	t	Attack	Odds	Relative	p-Value	95% Confidence	
(e.g., pool—waterpark; hot spring; well water)	Exposed (A)	Exposed (B)	Exposed	Expose	d	Rate (%) (B/A)	Ratio	Risk	(provide exact value, if known)	Interval	
Attack rate for residents of	reporting	state:	%		Attac	k rate for n	on-resid	lents of rep	orting state: _	%	
Clinical Specimens - Lab	oratory F	Results (ref	er to the labo	oratory f	findin	gs from the	outbreak	investigation)		
Were clinical diagnostic sp	ecimens ta	aken from pe	ersons? □Y	′es □	No (g	go to next ta	ab) □U	nknown <i>(go</i>	to next tab)		
If Yes , from how many	/ persons v	vere specim	ens taken?								

Water-General										
Specimen Type*			Specimen Subtype**		Tested for	§ (list all that apply)				
* Specimen Type: 1- Auto	opsy Specimen (spec	ify subtype), 2-Biopsy (s	pecify), 3-Blood, 4-Bronchial Alveol , 13-Stool, 14-Urine, 15-Vomitus, 16-	lar Lavage (BAL), 5-Cer	rebrospinal Fluid (CS	F), 6-Conjunctiva/Eye Swab	7-Ear Swab,			
			Kidney, 7-Liver, 8-Lung, 9-Nails, 10-			Jnknown				
		, 3-Fungi, 4-Parasites, 5-\								
			for a specific pathogen pe,Total # of People Tes				n/agent and fill			
Clinical Specimen Row Number	Genus/ Chemic	al/ Toxin	Species	Serotype/ Serog	roup/ Serovar	Genotype/ Subtype				
1										
2										
3										
4										
5										
Clinical Specimen Row Number	Confirmed as Etiology ?	Concentration (number)	Unit (e.g., oocysts, CFU)	Specimen Type	Specimen Subtype **		*			
1	□ yes									
2	□ yes									
3	□ yes									
4	□ yes									
5	□ yes									
Clinical Specimen Row Number	Test Type §					Total # People Tested	Total # People Positive			
1										
2										
3										
4										
5										
			pecify), 3-Blood, 4-Bronchial Alveol , 13-Stool, 14-Urine, 15-Vomitus, 16			F), 6-Conjunctiva/Eye Swab	7-Ear Swab,			
			Kidney, 7-Liver, 8-Lung, 9-Nails, 10- R, RT-PCR), 3-Microscopy (e.g., flu				age Typing			
6-Chemical Testing, 7-Tis			лі, тт-т от <i>і),</i> о-містозсору (е.д., па	iorescent, Livij, 4-Serok	ogical/illillidilologica	rest (e.g., LIA, LLIOA), 5-1 11	age Typing,			
Isolates	n	Spacimon Drofil	1 (o a BECE MUM	anotype)	Spacimen Dreft	le 2 (o a DEOE MUVA	or gonetime!			
State Lab Isolate II	U	opecimen Profile	e 1 (e.g., PFGE, MLVA, or ge	motype)	opecilieii Proil	le 2 (e.g., PFGE, MLVA,	ог депотуре)			

Rec Water-Treated

Recreational Water - Treated Venue Recreational Water Vehicle Description Water Vehicle Number Water Subtype Water Type **Setting of Exposure** (e.g., spa/whirlpool/hot tub; (select indoor, outdoor, or (e.g., 1, 2, 3) (e.g., club, requiring membership; pool- swimming pool; pool- waterpark) unknown) hotel/motel/lodge/inn; waterpark) **Water Vehicle Number USUAL Water Treatment Venue Treatment Subtype Chlorination Subtype** (e.g., 1, 2, 3) Provided at Venue (disinfection or pool filtration: e.g., UV; (chlorine disinfection only- e.g., gaseous; chlorine dioxide; bag filter; cartridge filter; sodium hypochlorite; cyanurates /stabilized (e.g., no treatment; coagulation; disunknown) chlorine) infection; flocculation; filtration (pool); unknown) **Water Vehicle Number** Fill Water Type IF PUBLIC WATER WAS USED IF PUBLIC WATER WAS USED TO FILL, (e.g., 1, 2, 3) (e.g., public water supply; sea water; TO FILL, USUAL Water Treatment Fill Water Treatment Subtype untreated ground or surface water; **Provided for Fill Water Before** (disinfection or pool filtration: e.g., UV; chlorine unknown) **Coming to the Venue** dioxide; bag filter; cartridge filter; unknown) (e.g., no treatment; disinfection; filtration (treatment plant); unknown) **Recreational Water Quality** Did the venue meet state or local recreational water quality regulations? □ Yes □No □ Unknown □ Not applicable If **No**, explain: ___ Was there a pool operator on the payroll with state-approved ☐ Yes □No □Unknown training or certification? **Laboratory Section - Recreational Water Samples from Treated Venues** ☐ Yes (specify in table below) ☐ No □Unknown Was water from treated recreational water venues tested? Results Sample 2 3 4 5 Source of Sample (e.g., swimming pool, hot tub) **Additional Description of Source of Sample** (e.g., specific location, time of day, backwash sample, etc.) Date (mm/dd/yyyy) Number **Volume Tested** Unit Number **Temperature** Unit Residual/Free Disinfectant Level Number (if total and combined disinfectant levels Unit given, total - combined = free) **Combined Disinfectant Level** Number (if total and free disinfectant levels given, total - free = combined) Unit pН

	Rec Water-Treated										
Mic	Microbiology or Chemical/Toxin Analysis (refer to the laboratory findings from the outbreak investigation)										
	ple Number	Genus/ Chemical/ Toxin		Serotype/ Serogroup/ Serovar	Genotype/ Subtype		Pattern				
Saii	ihie maiimei	delius/ Glielilical/ Tuxili	Species	Selutype/ Selugioup/ Seluval	denotype/ Subtype	FIGL	raugiii				
Sam	ple Number	Test Results Positive?	Concentration (number)	Unit (e.g., oocysts, CFU)	Test Type*	Enviro	Method (reference: onmental Methods www.nemi.gov)				
		□ yes									
		□ yes									
		□ yes									
		2-DNA or RNA Amplification/Dete Tissue Culture Infectivity Assay	ction (e.g., PCR, RT-P	CR), 3-Microscopy (e.g., fluorescent, EM),	4-Serological/Immunological	Test (e.g	., EIA, ELISA), 5-Phage	Typing,			
						T					
⊢ac	tors Contr	ibuting to Recreation	nal Water Co	ntamination and/or Incre	ased Exposure in	ırea					
		ll that apply)**					Documented/ Observed***	Suspected***			
		liance with bather load/de		nts ed children (e.g., kiddie pool)							
<u> </u>	Heavy use by	y child care center group		de ormateri (e.g., kidale pool)							
	Fecal/vomitu			- 6 la a la ca 111							
<u> </u>	Operator erro	tinued to swim when ill or or	within 2 weeks	or being iii							
Intentional contamination (explain in remarks) Combined pool filtration systems led to cross-contamination											
×- ⁻	Combined po	ool filtration systems led	to cross-contam	ination s, no diaper changing facilities)							
<u> </u>				s, no diaper changing facilities) stem capacity so water returns t	o features and bypass	es					
SH filtration/treatment system											
No supplemental disinfection installed that would have inactivated pathogen (e.g., Cryptosporidium) Water temperature ≥30°C (≥86°F)											
Cross-connection with wastewater or non-potable water											
				te, or lacking (e.g., hand feed)							
		tings on disinfectant con		ing (e.g., hand feed)							
	Incorrect set	tings on pH control syste	m	,							
	Filtration sys	stem malfunctioning or in al disinfection system ma	adequate (e.g., l	ow flow rate)							
일		system checks so breakd									
Ž_	No preventiv	e maintenance programs									
<u> </u>		itoring system in use sufficient for indoor aqua	atic facilities								
	Chemical ha	ndling error (e.g., chemic	al hookup, impro	pper mixing or application)							
		chemicals not flushed fr		re opening to swimmers d of chemicals resulted in exces	se chemicals in water						
		me/biofilm formation	i continuous ice	d of chemicals resulted in exces	55 CHEIIIICAIS III WALCI						
	Recent cons										
		vel excessive ning/cleaning									
	Stagnant wa	ter in spa piping was aero									
		operators on payroll who adequately trained staff o		tate/local certified training							
ᇹ		munication chain for repo									
EN EN				test kit, inadequate testing frequency	uency)						
		ness policies absent or n oor chemical handling po		and training							
2 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	No operator	on duty at the time of inc	ident	, <u></u>							
		outside aquatic health co perchlorination policy	ode								
	Other, specif	· · · · · ·									
	Unknown										
*** "[Documented/Obs	t was found during investigation served" refers to information gath ntation (as defined previously) is		nt reviews, direct observations, and/or int	erviews. "Suspected" refers t	o factors	that probably occurred	but for			
Rer	narks										

				Rec Water	-Untrea	ted				
Poorostion	ol Wotor Lint	rested Ve								
Recreational Water – Untreated Venue Recreational Water Vehicle Description										
Water Type	ə; river/stream; ocean)	IF SPRI	NG OR HOT SPRING, indoor, outdoor or t		/pe	Setting of Ex			p/cabin/re	creational area)
	, ,	,	·			(0 /			<u>'</u>	<u>'</u>
Recreational	Water Quality									
necreational	water Quality									
Did the venu	e meet state or local	recreational v	vater quality regul	ations?	□ Yes	□ No	□ Un	known	□ Not ap	plicable
If No , exp	lain:									
Did the year	e meet Environmenta	al Protoction A	goney (EDA) roer	oational w	ator a	iality etanda	rde?			
Did the vend	e meet Environment	ai i iolection A	igency (Li A) leci			•		len ouen	□ Not on	plicable
					□ Yes		⊔ Un	Known	□ Not ap	plicable
If No , exp	lain:									
Laboratory S	Section - Recreatior	al Water Sar	nnles from Untr	eated Ven	IIAS					
							1- 1	·····\ =	N- FI	Indian accord
	om untreated recreat	ionai water ve	enues lesteu?	ı	⊔ Yes (specify in tab	oie bei	<i>ow)</i> ⊔	NO LI	Jnknown
Results Sample			1	2		3			4	5
Source of Sample						_				-
(e.g., lake or stream	am) iption of Source of Samp	lo.								
	ation, time of day, etc)	16								
Date (mm/dd/yy	уу)									
Volume Tested		Number Unit								
Temperature		Number								
Water Quality	/ Indicator	Unit								
	Type (e.g., fecal coliform	<u>c)</u>	Concentration (num	aber)			Unit	(e.g., CFL	<u>/)</u>	
Campic Number	Type (e.g., recar comorni	3)	Concentration (nan	iber)			Oiiit	(e.g., or c	,, 	
Missabislass	Ol	Amelian's co								
	or Chemical/Toxin									
Sample Number	Genus/ Chemical/ Toxin	Species	Serotype/ Serogrou	ip/ Seruvar	Genot	ype/ Subtype	Prut	Pattern		
Sample Number	Test Results Positive?	Concentration (number)	Unit (e.g., oocysts, CFU))	Test Ty	ype*	Envir		reference: N Methods In mi.gov)	
	□ yes									
	□ yes									
	□ yes									
	□ yes									

^{*}Test Type: 1-Culture, 2-DNA or RNA Amplification/Detection (e.g., PCR, RT-PCR), 3-Microscopy (e.g., fluorescent, EM), 4-Serological/Immunological Test (e.g., EIA, ELISA), 5-Phage Typing, 6-Chemical Testing, 7-Tissue Culture Infectivity Assay

Rec Water-Untreated

Factors Contributing to Recreational Water Contamination and/or Increased Exposure in Untreated Venues								
Facto	rs (check all that apply)*	Documented/ Observed**	Suspected**					
	Out of compliance with bather load/density requirements							
	Primary intended use of water is by diaper/toddler aged children (e.g., kiddie pool)							
PEOPLE	Heavy use by child care center groups							
E0	Fecal/vomitus accident							
Ь	Patrons continued to swim when ill or within 2 weeks of being ill							
	Operator error							
	Intentional contamination (explain in remarks)							
EA	Hygiene facilities inadequate or distant (e.g., no toilets, no diaper changing facilities)							
AF IG	Malfunctioning or inadequate onsite wastewater treatment system *** ≠							
	Poor siting/design of onsite wastewater treatment system *** ≠							
SWIM AREA Design	Stagnant or poorly circulating water in swim area							
	Heavy rainfall and runoff							
	Sanitary sewer overflow (SSO) impact ***							
	Combined sewer overflow (CSO) impact ***							
	Domestic animal contamination (e.g., livestock, pets)							
	Wildlife contamination - Birds							
≧	Wildlife contamination - Mammals							
WATER QUALITY	Wildlife contamination - Fish kill							
OO.	Wastewater treatment plant effluent flows past swim area							
8	Wastewater treatment plant malfunction ***							
AI	Sewer line break ***							
×	Nearby biosolid/land application site (e.g., human or animal waste application)							
	Contamination from agricultural chemical application (e.g., fertilizer, pesticides)							
	Contamination from chemical pollution not related to agricultural application							
	Water temperature ≥30°C (≥86°F)							
	Seasonal variation in water quality (e.g., lake/reservoir turnover events)							
	Inappropriate dumping of sewage into water body (e.g., boat, RV)							
	Algal bloom							
	Dumping of ballast water							
	Tidal wash (i.e., tide exchange or influence by inland water)							
POLICY AND MANAGEMENT	Aquatics operator has not received state/local certified training							
ZZ_	Untrained/inadequately trained staff on duty							
_ اقار	Unclear communication chain for reporting problems							
5	Employee illness policies absent							
₽ 💆	No operator on duty at the time of incident							
	Other, specify:							
	Unknown							

Remarks

^{*} Only check off what was found during investigation

^{** &}quot;Documented/Observed" refers to information gathered through document reviews, direct observations, and/or interviews. "Suspected" refers to factors that probably occurred but for which no documentation (as defined previously) is available.

^{***} The release of sewage does not have to occur on the property in which persons have become ill. The sewage release may have occurred at a distant site but still affected the property in question.

^{# &}quot;Onsite wastewater treatment system" refers to a system designed to treat and dispose of wastewater at the point of generation, generally on the property where the wastewater is generated (e.g., septic systems or other advanced on site systems). However, contamination that originates from these systems can still occur off the property where treatment and disposal takes place due to migration of contaminants from malfunctioning systems or poor siting and design.

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Drinking Wate Drinking Water Ve			_			_					
Water Type* (e.g., commercially-bot- tled water, community water system, individual water system)	Public Water System EPA ID Number**	Water Source (select ground wate surface water or unknown)	Water Source Description (e.g., spring; lake)	Exposure	, , , ,	nent, (disinfection me boiling; chi	n or filtration: e.g., orine; rapid sand se osmosis)				
A community water system se and can be nontransient or tra vide water to places in which utility that have < 15 connection ** Number used for EPA repor	*Water system definitions: Community and noncommunity water systems are public water systems that have that have ≥ 15 service connections or serve an average of ≥ 25 residents for ≥ 60 days/year. A community water system serves year-round residents of a community, subdivision, or mobile home park. A noncommunity water system serves an institution, industry, camp, park, hotel, or business and can be nontransient or transient. Nontransient systems serve ≥ 25 of the same persons for > 6 months of the year but not year-round (e.g., factories and schools), whereas transient systems provide water to places in which persons do not remain for long periods (e.g., restaurants, highway rest stations, and parks). Individual water systems are small systems not owned or operated by a water utility that have < 15 connections or serve < 25 persons. ** Number used for EPA reporting that uniquely identifies the water system within a specific state. The water system ID number can be found at http://www.epa.gov/safewater/dwinfo/index.html by first selecting a state and then selecting a county.										
Drinking Water Qu	ıality										
Did the drinking wa	ter system hav	e any monitorin	g violations in the	•		□ Unknown □ I	Not applicable				
If Yes , explain:											
Did the drinking water system have any maximum contaminant level (MCL) violations in the 1 month prior to the outbreak?											
☐ Yes ☐ No ☐ Unknown ☐ Not applicable											
•					L I O***						
Did the drinking wa	ter system nav	e any violations	in the 12 months	•	break?^^^] Yes □ No	□ Unknown □ i	Not applicable				
If Yes , explain:											
***Sources of informat records from state or le			btained from utility	records, consume	r confidence reports	(water quality repo	orts), or violation				
Laboratory Section	n - Drinking \	Water									
Was drinking water	tested?				Yes (specify in tab	le below) □ No	□Unknown				
Results Sample			1	2	3	4	5				
Source of Sample			•	_							
Additional Description (e.g., kitchen faucet, well		ple									
Volume Tested		Number Unit									
Temperature		Number Unit									
Residual/Free Disinfect		Number									
given, total - combined =		Unit									
рН											
Turbidity (NTU)											

				Dri	inking Wa	ater	
Water Quality	/ Indicator						
	Type (e.g., fecal coliforms)		Concentration (number)		Unit (e	g., CFU)	
Campio itamico	Type (o.g., room comornie)		Consoniation (nameon)		Oint (O.	9., 0. 0)	
Microbiology	or Chemical/Toxin	Analysis (refe	er to the laboratory findings fro	m the outbreak inves	stigation)	
Sample Number	Genus/ Chemical/ Toxin	Species	Serotype/ Serogroup/ Serovar	Genotype/ Subtype	PFGE P	attern	
Sample Number	Test Results Positive?	Concentration	Unit	Test Type*		ethod (reference: N	
		(number)	(e.g., oocysts, CFU)			mental Methods Ir ww.nemi.gov)	ndex:
					nup://w	ww.riemi.gov)	
	□ voo						
	□ yes						
	□ yes						
	□ yes						
	2-DNA or RNA Amplification/Detection Culture Infectivity Assay	ection (e.g., PCR, RT-	-PCR), 3-Microscopy (e.g., fluorescent, EN	l), 4-Serological/Immunolog	ical Test (e.	g., EIA, ELISA), 5-Phag	e Typing,
Factors Cont	ributing to Drinking	Water Conta	amination and/or Increas	sed Exposure to	Contan	ninated Drink	ing Water
	-		amination and/or Increas				ing Water
	-		water or surface water) cor	ntribute to the dise	ase or	outbreak?	-
	-		water or surface water) cor		ase or		-
Did a problem	-	r (i.e., ground	water or surface water) cor	ntribute to the dise	ase or	outbreak?	-
Did a problem Source Water Face Sanitary sewer of	with the source wate	r (i.e., ground	water or surface water) cor	ntribute to the dise	ase or	outbreak? □ No □ Unkn	own
Source Water Factors Sanitary sewer of Combined sewer	with the source water ctors (check all that apply) overflow (SSO) **** r overflow (CSO) ****	r (i.e., ground	water or surface water) cor □ Yes	ntribute to the dise	ase or	outbreak? No Unkn Documented/ Observed***	Suspected***
Source Water Face Sanitary sewer of Combined sewer Malfunctioning of Sewage treatments	with the source water ctors (check all that apply) overflow (SSO) **** r overflow (CSO) **** on-site wastewater treatment plant malfunction ***	r (i.e., ground	water or surface water) cor □ Yes	ntribute to the dise	ase or	outbreak? No Unkn Documented/ Observed***	Suspected***
Source Water Face Sanitary sewer of Combined sewer Malfunctioning of Sewage treatment Sewer line break	with the source water ctors (check all that apply) overflow (SSO) **** r overflow (CSO) **** on-site wastewater treatment plant malfunction *** ****	r (i.e., ground ** ent system ****	water or surface water) cor □ Yes	ntribute to the dise	ase or	outbreak? No Unkn Documented/ Observed***	Suspected***
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^{**} Only check off what was found during investigation

^{*** &}quot;Documented/Observed" refers to information gathered through document reviews, direct observations, and/or interviews. "Suspected" refers to factors that probably occurred but for which no documentation (as defined previously) is available.

^{****}The release of sewage does not have to occur on the property in which persons have become ill. The sewage release may have occurred at a distant site but still affected the property in question.

^{≠ &}quot;On site wastewater treatment system" refers to a system designed to treat and dispose of wastewater at the point of generation, generally on the property where the wastewater is generated (e.g., septic systems or other advanced on site systems). However, contamination that originates from these systems can still occur off the property where treatment and disposal takes place du to migration of contaminants from malfunctioning systems or poor siting and design.

^{≠ ≠} Any water beneath the surface of the ground with substantial occurrence of insects or other macrooganisms, algae, or large-diameter pathogens (e.g., Giardia intestinalis or Cryptosporidium), or substantial and relatively rapid shifts in water characteristics (e.g., turbidity, temperature, conductivity, or pH) that closely correlate with climatologic or surface water conditions. Direct influence must be determined for individual sources in accordance with criteria established by the state.

Drinking V	Vai	ter
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Factors Contributing to Drinking Water Contamination and/or Increased Exposure to Contan	ninated Drinki	ng Water
Did a problem with the water treatment prior to entry into a house or building contribute to the disease \[\textsize \text{Yes (specify in table below)} \]		Unknown
Treatment Factors (check all that apply)*	Documented/ Observed**	Suspected**
Change in treatment process		
No disinfection		
Temporary interruption of disinfection Chronically inadequate disinfection		
No filtration		
Inadequate filtration		
Deficiencies in other treatment processes		
Corrosion in or leaching from pipes or storage tanks		
Pipe/component failure or break (e.g., pipes, tanks, valves)		
Contamination during construction or repair of pipes/components Construction or repair of pipes/components without evidence of contamination		
Operator error		
Other, specify:		
Unknown		
Did a problem with the distribution system contribute to the disease or outbreak? Yes (specify in table (NOTE: For a community water system, the distribution system refers to the pipes and storage infrastructure under the prior to the water meter (or property line if the system is not metered). For noncommunity and nonpublic water system the pipes and storage infrastructure prior to entry into a building or house) Distribution and Storage Factors (check all that apply)*	e jurisdiction of the distribution Documented/	ne water utility
The state of the s	Observed**	
Cross-connection of potable and nonpotable water pipes resulting in backflow		
Low pressure or change in water pressure in the distribution system		
Change in water flow direction in the distribution system Mixing of treated water from different sources		
Pipe/component failure or break (e.g., pipes, tanks, valves)		
Corrosion in or leaching from pipes or storage tanks		
Contamination of mains during construction or repair		
Construction or repair of mains without evidence of contamination		
Scheduled flushing of the distribution system		
Contamination of storage facility Aging water distribution components (a.g. pipes, tanks, valves)		
Aging water distribution components (e.g., pipes, tanks, valves) Water temperature ≥30°C (≥86°F)		
Intentional contamination (explain in remarks)		
Other, specify:		
Unknown		
Did a problem occur after the water meter or outside the jurisdiction of a water utility that contributed t (e.g., in a service line leading to a house/building, in the plumbing inside a house/building, during ship other than in the distribution system, at the point of use, involving commercially-bottled water) □ Yes (specify in table below)	pping/hauling, c	or outbreak? Iuring storage
	Documented/	Suspected**
Factors Not Under the Jurisdiction of a Water Utility or Factors at the Point of Use (check all that apply)* Legionella species in water system	Observed**	Suspecteu
Cross-connection of potable and nonpotable water pipes resulting in backflow		
Lack of backflow prevention in plumbing		
Low pressure or change in water pressure in the plumbing		
Change in water flow direction in the plumbing Corrosion in or leaching from pipes or storage tanks		
Pipe/component failure or break (e.g., pipes, tanks, valves)		
Aging plumbing components (e.g., pipes, tanks, valves)		
Contamination of plumbing during construction or repair		
Construction or repair of plumbing without evidence of contamination		
Deficiency in building/home-specific water treatment after the water meter or property line		
Deficiency or contamination of equipment/devices using or distributing water Contamination during commercial bottling		
Contamination during confinercial bottling Contamination during shipping, hauling, or storage		
Contamination at point of use – Tap		
Contamination at point of use – Hose		
Contamination at point of use – Commercially-bottled water		
Contamination at point of use – Container, bottle, or pitcher Contamination at point of use – Unknown		
Water temperature ≥30°C (≥86°F)		
Intentional contamination (explain in remarks)		
Other, specify:		
Unknown		
* Only check off what was found during investigation		

^{** &}quot;Documented/Observed" refers to information gathered through document reviews, direct observations, and/or interviews. "Suspected" refers to factors that probably occurred but for which no documentation (as defined previously) is available.

	Drinking Water
Remarks	

Water Not Intended for Drinking or Water of Unknown Intent (WNID/WUI) **Intent for Use** What was the intended use for the implicated water? (check all that apply) ☐ Cooling/Air Conditioning (e.g., cooling tower, swamp cooler) ☐ Mister (e.g., produce in grocery store, public cooling system) ☐ Ornamental (e.g., a decorative non-interactive fountain intended for public display and not designed for swimming or recreational use) ☐ Industrial/Occupational (e.g., steam cleaner) ☐ Agricultural Irrigation □ Waste water ☐ Other (specify):_ □ Unknown **Water Description Water Type USUAL Water Treatment Provided Water Treatment Subtype Setting of Exposure** (e.g., cooling tower; drainage ditch; (e.g., airport; hospital/health care facility, (e.g., no treatment; disinfection; (disinfection or filtration: e.g., boiling; fountain- ornamental) nursing home; park- state park) settling/sedimentation) chlorine; rapid sand filter; reverse osmosis) **Laboratory Section** Was the implicated water tested? \square Yes (specify in table below) \square No □ Unknown Results 2 3 1 4 5 Sample **Source of Sample Additional Description of Source of Sample** (e.g., stream not intended for drinking, main A/C unit) Date (mm/dd/yyyy) Number **Volume Tested** Unit Number **Temperature** Unit Residual/Free Disinfectant Level Number (if total and combined disinfectant levels Unit given, total - combined = free) **Turbidity (NTU)** рН **Water Quality Indicator** Sample Number **Concentration** (number) Type (e.g., fecal coliforms) Unit (e.g., CFU)

		VII

ienus/ Chemical/ Toxin iest Results Positive?		r to the laboratory findings from Serotype/ Serogroup/ Serovar Unit (e.g., oocysts, CFU)	the outbreak invest Genotype/ Subtype Test Type*	PFGE Pattern			
est Results Positive?	Concentration	Unit					
] yes			Test Tyne*	Toot Mathad (vafarana			
] yes			Test Tyne*	Toot Mathad (votorene			
] yes			Test Tyne*	Toot Mothod /vofeware			
] yes			Test Tyne*	Tost Mathad (voto roma			
] yes			Test Tyne*	Tost Mothod (votovono			
-			1001 1940	Test Method (reference: National Environmental Methods Index: http://www.nemi.gov)			
7.400							
] yes							
] yes							
] yes							
NA or RNA Amplification/Dete sue Culture Infectivity Assay	ction (e.g., PCR, RT-F	PCR), 3-Microscopy (e.g., fluorescent, EM),	4-Serological/Immunologic	al Test (e.g., EIA, ELISA), 5-Ph	age Typing,		
outing to Contamir	nation and/o	r Increased Exposure to (Contaminated Wa	ater			
that apply)*				Documented/ Observed**	Suspected**		
aporative condenser – s	shutdown for >3	days without draining to waste					
Cooling tower/evaporative condenser – lack of a maintenance program							
Cooling tower/evaporative condenser – absence of drift eliminators							
Cooling tower/evaporative condenser – presence of damaged drift eliminators							
Cooling tower/evaporative condenser – history of recent repairs to the device							
Cooling tower/evaporative condenser – siting of device in immediate area of kitchen exhaust fans, live plants, truck bays, or other sources of organic matter							
Cooling tower/evaporative condenser – construction on the premises of the device within 6 months before the index case							
aporative condenser – o	construction wit	thin 100 meters of the premises	of the device within (5 🗆			
	organic matter, o	or other debris in the water basi	n				
er							
re ≥30°C (≥86°F)							
found during investigation							
* Only check off what was found during investigation ** "Documented/Observed" refers to information gathered through document reviews, direct observations, and/or interviews. "Suspected" refers to factors that probably occurred but for which no documentation (as defined previously) is available.							
a a a a a a a a a a a a a a a a a a a	uting to Contamination at apply)* porative condenser — porative condens	uting to Contamination and/or nat apply)* porative condenser – shutdown for >3 porative condenser – lack of a mainter porative condenser – lack of a qualifie porative condenser – presence of sca porative condenser – presence of dirt, porative condenser – absence of drift porative condenser – history of recent porative condenser – siting of device porative condenser – construction on porative condenser – construction on porative condenser – construction with a index case ain – presence of submerged lighting ain – lack of a written cleaning and ma ain – presence of dirt, organic matter, or sewer pipe r a ≥30°C (≥86°F) found during investigation "refers to information gathered through document"	uting to Contamination and/or Increased Exposure to (nat apply)* porative condenser – shutdown for >3 days without draining to waste porative condenser – lack of a maintenance program porative condenser – lack of a qualified water quality specialist porative condenser – presence of scale or corrosion porative condenser – presence of dirt, organic matter, or other debris porative condenser – presence of drift eliminators porative condenser – presence of damaged drift eliminators porative condenser – history of recent repairs to the device porative condenser – siting of device near building air intakes porative condenser – siting of device near windows that can be open porative condenser – siting of device in immediate area of kitchen exter sources of organic matter porative condenser – construction on the premises of the device with a porative condenser – construction within 100 meters of the premises of index case ain – presence of submerged lighting ain – lack of a written cleaning and maintenance program ain – presence of dirt, organic matter, or other debris in the water basis sewer pipe re ≥ 30°C (≥86°F) found during investigation "refers to information gathered through document reviews, direct observations, and/or inter	uting to Contamination and/or Increased Exposure to Contaminated Want apply)* porative condenser – shutdown for >3 days without draining to waste porative condenser – lack of a maintenance program porative condenser – lack of a qualified water quality specialist porative condenser – presence of scale or corrosion porative condenser – presence of dirt, organic matter, or other debris in the cold water bast porative condenser – presence of drift eliminators porative condenser – presence of damaged drift eliminators porative condenser – siting of device near building air intakes porative condenser – siting of device near windows that can be opened porative condenser – siting of device near windows that can be opened porative condenser – siting of device in immediate area of kitchen exhaust fans, live plants or sources of organic matter porative condenser – construction on the premises of the device within 6 months before the porative condenser – construction within 100 meters of the premises of the device within 6 months before the porative condenser – construction within 100 meters of the premises of the device within 6 months before the porative condenser – construction within 100 meters of the premises of the device within 6 months before the porative condenser – construction within 100 meters of the premises of the device within 6 months before the porative condenser – construction within 100 meters of the premises of the device within 6 months before the porative condenser – construction within 100 meters of the premises of the device within 6 months before the porative condenser – construction within 100 meters of the premises of the device within 6 months before the porative condenser – construction within 100 meters of the premises of the device within 6 months before the porative condenser – construction within 100 meters of the premises of the device within 6 months before the premises of the device within 6 months before the premise of the premise of the device meters of the premise of the device meter	uting to Contamination and/or Increased Exposure to Contaminated Water Documented/Observed** Documented/Observed**		

Epidemic and laboratory assistance for the investigation of a waterborne disease outbreak is available upon request by the State Health Department to the Centers for Disease Control and Prevention. Please enter this report into the National Outbreak Reporting System (NORS). State/Local investigation reports and questionnaires can also be attached to the report in the electronic system. Communications and requests for epidemic and laboratory assistance may be directed to: Waterborne Disease and Surveillance Coordinator. Division of Parasitic Diseases, National Center for Zoonotic, Vector-Borne, and Enteric Diseases, Coordinating Center for Infectious Diseases, CDC 4770 Buford Highway, NE, MS F-22, Atlanta, GA, 30341-3724 or (770) 488-7775

Public reporting burden of this collection of information is estimated to average 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC, Project Clearance Officer, 1600 Clifton Road, MS D-24, Atlanta, GA, 30333, ATTN: PRA (xxxxxxxxx) <-DO NOT MAIL CASE REPORTS TO THIS ADDRESS-