



## **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

						3 No. 0920-0004
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)	l type	☐ Environmental c (Complete CDC 52.		other than f	ood/water	
□ Animal contact (Complete CDC 52.13)		□ Indeterminate/O	,	ດ (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 untread or untread or untread or untread or investigation at the contract or investigation or investigation at the contract or investigation or investigation at the contract of investigation or investigation at the contract or investigation at t	factory/productoriginal source bottled water	ction/treatme e (e.g., farm traceback	ent plant	
Dates (mm/dd/yyyy)						
Date first case became ill (required)			Date last c	ase became	ill/	/
				t exposure_	//	
Date of report to CDC (other than this form)/_	/					
Date of notification to State/Territory or Local/Tribal	Health Aut	horities//				
Geographic Location						
Reporting state:  □Exposure occurred in multiple states □Exposure occurred in a single state but cases Other states:  Reporting county:		multiple states				
□Exposure occurred in multiple counties in repo □Exposure occurred in a single county but case Other counties:	rting state		ting state			
City/Town/Place of exposure:						
Do not include proprie	tary or priv	ate facility names				
Primary Cases						
Number of Primary Cases			Sex (estimated	d percent of	the primary cas	es)
# Lab-confirmed cases		(A)	Male			%
# Probable cases		(B)				
# Estimated total primary ill (if greater than sum A+B)			Female			%
	# Cases	Total # of cases for whom info is available	Approximate p	ercent of prim	ary cases in eacl	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	%
C 52.12 Rev. 03 2008	•	National Outbreak Reporting System				CS115923

Incubation Period, Duration	on of Illness, Signs	or Symptoms fo	or Primary C	ases only			
Incubation Period (circle ap			_	_	ng recovered cases-	-circle ap	propriate units)
Shortest		Min, Hours, Days	Shortest			in, Hours, Days	
Median		Min, Hours, Days	Median				in, Hours, Days
Longest		Min, Hours, Days	Longest			М	in, Hours, Days
Total # of cases for whom info i	s available		Total # of cas	ses for whom info	is available		
☐ Unknown incubation period			□ Unknown c	duration of illnes	3		
Signs or Symptoms (*refer	to terms from appendix						
Feature		# Cases with sign	s or symptoms	Tot	al # cases for whom	info avail	lable
Vomiting							
Diarrhea							
Bloody stools Fever							
Abdominal cramps HUS							
Asymptomatic							
*							
*							
*							
Secondary Cases							
Mode of Secondary Transmission	(check one)		Number of Se	econdary Cases			
	(oneon one)				74.00000		(4)
☐ Food ☐ Water			# Lab-confirmed secondary cases				(A)
☐ Animal contact			# Probable secondary cases				(B)
<ul><li>☐ Person-to-person</li><li>☐ Environmental contamination</li></ul>	on other than food/wate	r	Total # of s	econdary cases	(if greater than sur	n A+B)	
☐ Indeterminate/Other/Unkno			Total # of c	ases (Primary +	Secondary)		
Environmental Health Spe	ecialists Network (if	applicable)					
EHS-Net Evaluation ID: 1.) _		2.)		3	.)		
Traceback (for food and bottle		•			7		
☐ Please check if traceback of		water)					
Source name	Source type	Location	n of source	Comments			
(If publicly available)	(e.g. poultry farm, tomato	State	Country				
	processing plant, bottled water factory)						
	mater ractory,						
Recall							
☐ Please check if any food or	bottled water product w	as recalled					
Type of item recalled:							
Comments:							
Reporting Agency							
Agency name:			E-mail:				
Contact name:			Contact title	e:			
Phone no.:							
	ortant aspects of the outborn, immunocompromised		ove. Please indi	cate if any advers	e outcomes occurred	l in specia	al populations
		,					

	Water-Gene	eral									
Waterborne Disease and Outbreaks - General											
Type of Water Exposure (	check ONE	box)									
□ Water intended for recreation purposes – treated venue (e.g., pool, spa/whirlpool/hotub, spray pad)		untreated ve	purposes – enue (e.g., ake, hot spri			Water intend (includes wa bathing/sho	ater used		drinking of intent (e.	intended for or water of unknown g., cooling/industrial, nal, decorative/	
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/	_		
\A/			- 41 0		con	nditions			☐ Ingestion	on	
Was exposure associated wi □ Yes □ No	tn a specir □ Unkno	ŭ	atnering?			spiratory syr nditions	mptoms/		_ ☐ Contac	t	
If <b>Yes</b> , what type of event or	gathering	was involved	!?		Ski	n symptoms	conditio/	ns	_ ☐ Inhalati	ion	
					Ear	symptoms/	condition	ns	_ □ Other, s	specify:	
					Eye symptoms/conditions				-		
If outbreak occurred during a	a defined e	vent, dates o	of event:		Neurologic symptoms/ conditions				☐ Unknown		
canaraan caan aa		,			Wound infections ———				_		
Start date:///	End				Other, specify (e.g.,						
(mm/dd/yyyy)		(m	m/dd/yyyy)		hepatitis A, leptospirosis):						
Epidemiologic Data								_			
Estimated total number of	-		•								
2. Were data collected from If <b>No</b> or <b>Unknown</b> , 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 <b>Yes</b> , from how many	/ persons v	vere specim	ens taken?								

Water-General Control of the Control										
Specimen Type*			Specimen Subtype**		Tested for	§ (list all that apply)				
* Specimen Type: 1- Autopsy Specimen (specify subtype), 2-Biopsy (specify), 3-Blood, 4-Bronchial Alveolar Lavage (BAL), 5-Cerebrospinal Fluid (CSF), 6-Conjunctiva/Eye Swab, 7-Ear Swab, 8-Endotracheal Aspirate, 9-Saliva, 10-Serum, 11-Skin Swab, 12-Sputum, 13-Stool, 14-Urine, 15-Vomitus, 16-Wound Swab, 17-Unknown										
			Kidney, 7-Liver, 8-Lung, 9-Nails, 10-			Jnknown				
		, 3-Fungi, 4-Parasites, 5-\								
Enter positive findings in the table below. If tests for a specific pathogen/agent were negative, please also list that pathogen/agent and fill in the Specimen Type, Specimen Subtype, Test Type, Total # of People Tested and Total # of People Positive.										
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 *	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-				ana Tunin a			
6-Chemical Testing, 7-Tis			CR, RT-PCR), 3-Microscopy (e.g., flu	orescent, Ewj, 4-Seroid	ogical/inmunologica	п теэт (e.g., EIA, ELISA), 5-Ph	aye ıypıng,			
Isolates										
State Lab Isolate II	J	Specimen Profile	e 1 (e.g., PFGE, MLVA, or ge	notype)	Specimen Profi	le 2 (e.g., PFGE, MLVA,	or genotype)			

Rec Water-Untreated										
Poorcation	nal Water – Unt	rested Ve								
	Water – Ont Water Vehicle Desc		nue							
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)
	, ,	,	·	<u> </u>		( 0 /				<u>'</u>
Recreational	Water Quality									
Hecreational	water Guanty									
Did the venu	e meet state or local	recreational v	vater quality regul	ations?	□ Yes	□ No	□ Un	known	□ Not ap	plicable
If <b>No</b> , exp	lain:									
Did the venu	e meet Environmenta	al Protection A	agency (FPA) recr	eational w	ater di	ıality standa	ırds?			
Bid the vend	e meet Environment		igency (Li A) reci		uter qu □ Yes	•		known	□ Not ap	nlicable
								KIIOWII	⊔ ічої ар	plicable
If <b>No</b> , exp	lain:									
Laboratory S	Section - Recreation	nal Water Sar	nples from Untr	eated Ven	ues					
	om untreated recreat					specify in tab	ole bel	'ow) □	No □ l	Jnknown
Results										
Sample			1	2		3			4	5
Source of Sample (e.g., lake or stream										
Additional Descri	iption of Source of Samp ation, time of day, etc)	le								
Date (mm/dd/yy										
Volume Tested		Number								
Temperature		Unit Number								
		Unit								
Water Quality										
Sample Number	Type (e.g., fecal coliform	s)	Concentration (num	nber)			Unit	(e.g., CFL	<i>I)</i>	
	or Chemical/Toxin									
Sample Number	Genus/ Chemical/ Toxin	Species	Serotype/ Serogrou	ıp/ Serovar	Genot	ype/ Subtype	PFGE	Pattern		
Comple Number	Took Dooulto Docitive?	Composition	Unit		Tool To	···· • *	Tool	Mathad /		
Sample Number	Test Results Positive?	(number)	(e.g., oocysts, CFU)	)	Test Ty	уре	Envir		reference: N Methods In mi.gov)	
	□ yes									
	□ yes									
	□ yes									
	□ yes									

<sup>\*</sup>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					
	Fecal/vomitus accident					
_	Patrons continued to swim when ill or within 2 weeks of being ill					
	Operator error					
	Intentional contamination (explain in remarks)					
¥	Hygiene facilities inadequate or distant (e.g., no toilets, no diaper changing facilities)					
_ 5 A	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					
AL.	Wildlife contamination - Fish kill					
9	Wastewater treatment plant effluent flows past swim area					
œ	Wastewater treatment plant malfunction ***					
WATER QUALITY	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)					
	Aquatics operator has not received state/local certified training					
POLICY AND MANAGEMENT	Untrained/inadequately trained staff on duty					
> 병급	Unclear communication chain for reporting problems					
<b>⊒</b> ≸ -	Employee illness policies absent					
,5 ₹ -	No operator on duty at the time of incident					
	Other, specify:					
	Unknown					

## **Remarks**

<sup>\*</sup> Only check off what was found during investigation

<sup>\*\* &</sup>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.

<sup>\*\*\*</sup> 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.

<sup># &</sup>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.