For reference, please see "Key References Cited/Used in National Response Team (NRT) Quick Reference Guides (QRGs) for Bacterial 2011 Revision." QRGs are intended for Federal On-Scene Coordinators (OSCs) and Remedial Program Managers (RPMs).

	Agent Classification: Biological Type: Bacteria (Coxiella burnetii)					
ş	Description: C. burnetii is an obligate intracellular Gram negative microorganism found in humans, cattle, sheep, goats, cats, and rabbits. C. burnetii is resistant to					
stic	heat, drying, and many common disinfectants. C. burnetii does not usually cause illness in livestock; however, the microorganisms are found in body fluids, milk,					
eris	urine, and feces of infected animals. Q fever is a zoonotic disease (transferable between animals and humans) caused by C. burnetii. Infection of humans occurs					
Agent Characteristics	Biosafety L		the organisms from the air, and very few organisms are nee	ded to cause disease. Approximately 50% of infected people show signs of illness. Other Forms of Transmission: Tick bite		
hai			Vac	Treatment: Supportive with antibiotics like doxycycline.		
it C	HHS Select Agent: Yes CDC Class: B			Infectivity/Lethality: High/Low		
ger	Incubation Period: 9-28 days			Persistence/Stability: Persistent in soil for months. Stable because resistant to		
A	Person-to-Person Transmission: Yes, via contact with body fluids or thru			heat, drying, and many common disinfectants, which enables the bacteria to		
				survive for long periods of time in the environment.		
	CAUTION: REAEROSOLIZATION IS A CONCERN FOR ALL RELEASE SCENARIOS.					
SC	Air: C. burnetii poses an aerosol threat in its natural and specially engineered forms. Transmitted commonly by airborne dissemination of small cell variants (spore-					
ario	like particles) in dust from contaminated surfaces; microorganisms may be carried >0.5 mile downwind.					
Release Scenarios	Soil: Persists in soil for months due to its resistance to heat and desiccation.					
eS	Surfaces: Persists on surfaces for months due to its resistance to desiccation and common disinfectants.					
eas	Water: C. burnetii can pose a water threat.					
Sele	Food: Unpasteurized milk and dairy products. Other: To avoid animal to man transmission, milk should be pasteurized; dust control in agricultural related industries is essential and animal placentas, feces, and					
-	urine should be incinerated.					
	Onset		Symptoms may occur 9-28 days and the illness may last for	nr weeks		
		ntoms	General: Acute O fever is characterized by sudden onset (	of fever headache malaise and interstitial pneumonitis. Pneumonia occurs		
	Signs/Symptoms per Exposure		General: Acute Q fever is characterized by sudden onset of fever, headache, malaise and interstitial pneumonitis. Pneumonia occurs frequently. Approximately 50% of infected people show signs of illness. Only 1-2% of people with acute Q fever die and most patients will			
cts	Route		recover without any treatment. A few people may develop chronic Q fever, an uncommon but serious disease, 1-20 years after the initial			
Effe	Noule		infection. Therefore, early treatment and diagnosis is important. Uncommon complication include chronic hepatitis, endocarditis (inner heart			
th I			layer inflammation), aseptic meningitis (inflammation of brain membranes), encephalitis (inflammation of the brain), and osteomyelitis (infection			
Health Effects			of the bone).			
			Inhalation: Primary route of exposure via dust from contaminated surfaces/premises.			
			Skin: Direct contact with infected animals and after-birth tissue, wool, straw, manure fertilizer and clothing of exposed personnel.			
		<u> </u>	Ingestion: Ingestion of unpasteurized milk and dairy produ	icts has been responsible for some cases.		
s r	Infectivity: <i>C. burnetii</i> is considered to be highly infectious. Infective dose: As little as one organism can cause Q fever in a susceptible individual.					
Effect Levels			<2% for treated individuals	viuuai.		
шĽ	Lethanty. L					
	Concerns Decisions regarding PPE, sampling, and decon should not be made without verifying if the Q fever outbreak was naturally occurring or from					
	an engineered source. Check with the Health & Safety Officer regarding PPE, Medical Surveillance, & Health & Safety Plan (HASP). Level of PPE					
		may vary depending upon the incident & site specific circumstances. The PPE Levels listed are general suggestions only & may not provide protection				
	for some decon & other chemicals that workers may be exposed to during response/recovery operations. For decon of workers, use warm soapy wat					
		taking care to avoid abrading the skin.				
	Medical Baseline: Annual physical & respiratory function exams. THERE IS NO U.S. FOOD & DRUG ADMINISTRATION APPROVED HUMAN Q FEVER VACCINE.					
~	First Aid	Treatments Available: Supportive accompanied with antibiotics, such as doxycycline.     At Aid During Incident: Conduct medical monitoring; use PPE as designated by the HASP; record the PPE Levels used; monitor for fever & other signs/symp-				
afet	toms a		s listed under Health Effects &, if necessary, ensure medical attention is obtained as soon as possible.			
Personnel Safety			ncident: Monitor for signs/symptoms. If necessary, ensure medical attention is provided ASAP.			
nne	PPE	Emergency Response to a Suspected Biological Incident: Possible PPE Levels for emergency responders is based on scenario risks from highest				
los		level of protection to least: 1) Pressure-demand Self Contained Breathing Apparatus (SCBA) with Level A protective suit, when: a) Event is uncontrolle				
Pel		b) The type(s) of airborne agent(s) is unknown, c) The dissemination method is unknown, d) Dissemination via an aerosol-generating device is still				
		occurring, e) Dissemination via an aerosol-generating device has stopped, but there is no information on the duration of dissemination, or what the				
		exposure concentration may be. 2) Pressure-demand SCBA with Level B protective suit, when: a) The suspected biological aerosol is no longer being				
				facepiece respirator with P100 filter or PAPR with HEPA filters, when: An aerosol-		
				ons. 4) Disposable hooded coveralls, gloves, & foot coverings, when: Dissemination		
	was by a letter, package, or other material that can be bagged, contained, etc. Other Workers: PPE recommendations for workers other than emergency responders must be developed in the HASP for the specific scenario. PPE					
	recommendations will vary by job type (e.g., cleanup, decon, etc.), type of exposure (e.g., airborne or surface/liquid/soil hazard), & any other site					
			Is (e.g., chemical, physical, etc.).	spe of exposure (e.g., all bothe of surface inquidison hazard), a any other site		
	Fixed Aerosol Monitoring: A release of C. burnetii can only be confirmed once patients present with symptoms & are diagnosed. Consult EPA/HQ-EOC at 202-					
Field Detection	564-3850 for more information.					
Field etectic	Portable Aerosol Monitoring: Refer to the manufacturer's aseptic sampling methods, flow rates, & sampling times. Ensure that the appropriate pump is used for the					
Det	selected sampling method. Traditional wet sampling methods (e.g., impingers & impactors) might not work well because C. burnetti is an obligate intracellular					
	microorganism which requires embryonated chicken eggs or cell lines for growth.					
	Concerns: BEFORE OBTAINING SAMPLES: Identify sample transportation requirements; Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories					
	able to analyze these types of samples; Clearly identify & coordinate with the laboratory to be used since most labs cannot analyze all types of media (e.g., wipes,					
	swabs, and HEPA vacuum samples); Coordinate with the sample disposal facility for acceptance criteria (i.e., sample decon requirements); Coordinate with					
B	investigative units (EPA-CID & FBI) to ensure sample chain-of-custody is maintained between the groups. Note: Detection/analytical equipment & sampling					
plin	techniques will be highly site-specific & depend on: 1) the characteristics of the agent; 2) the type of contaminated surfaces (e.g., porous v. nonporous); 3) the phases/purposes of sampling (initial ID v. post-decon sampling); 4) the way in which samples are handled so as not to adversely affect viability; 5) transportation					
Sampling	regulations 6) the acceptance criteria of the analytical laboratory & 7) the sample decon requirements for the waste disposal facilities to be used. See					
S	LABORATORY ANALYSIS, below.					
	CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED.					
	A site-specific sampling plan should be reviewed & approved by appropriate Subject Matter Experts &/or through ICS channels.					
				nited to a small area due to opening a letter or container, start with an area thought to		

	be free of contamination & work in concentric circles towards the initial point of contamination. Be concerned about other contaminated areas due to foot
	traffic/ventilation systems (elevator buttons, mail, corners of hallways, baseboards, light switches, door knobs, etc). Based on site characteristics & laboratory
	capacity, the sampling plan may be judgmental, probabilistic, or a combination thereof.
	Consult EPA/HQ-EOC at 202-564-3850 for Environmental Response Laboratory Network (a.k.a. ERLN laboratory) contact information for personnel who
	can explain/describe the sampling procedure most compatible with their current analytical procedure.
	Types of Samples: Air, water, soil, surfaces, dairy production/livestock
	Note: While C. burnetii DNA can be detected long after the bacteria themselves have perished & might be of forensic interest, the presence of the DNA says little
	about the potential human risk in the days following a release.
	<b>Air:</b> Dry sampling (useful only for molecular analyses) includes gelatin, cellulose acetate & Teflon methods. Refer to the manufacturer's aseptic sampling methods, flow rates, & sampling times. Ensure that the appropriate pump is used for the selected sampling method. Traditional wet sampling methods (e.g., impingers & impactors) might not work well because <i>C. burnetti</i> is an obligate intracellular microorganism which requires embryonated chicken eggs or cell lines for growth. <b>Water</b> : Since <i>C. burnetii</i> can persist in water, any potable water sources should be sampled. If the potable water is chlorinated, the chlorine needs to be neutralized immediately with a sodium thiosulfate or other neutralizer at the concentration specified by the analytical laboratory prior to shipment. As chlorine levels can vary
	substantially throughout a drinking water system, it is not always appropriate to assume that a sample is chlorinated based solely on a description of the water treatment processes in use.
	Soil: A surface soil sample from a depth of less than 1 inch (2.54 cm) should be obtained from a non-vegetated area. Surfaces: 1) Wipe & Swab Sampling (for non-porous surfaces): Sterile macrofoam swabs moistened with 1X phosphate-buffered saline supplemented with 0.01% Tween-20 (PBST). If this solution is not available, use sterile de-ionized water (DI). Do NOT use dry wipes or swabs. 2) HEPA Vacuum Sampling (for both porous & non-porous surfaces): collect samples in a HEPA sock designed to fit into an inlet nozzle of a manufacturer certified HEPA vacuum cleaner. Good for screening &
	determining the extent & location of contamination in large areas.
	Agriculture & Wildlife: Upon confirmation of an outbreak, ensure these agencies are notified immediately since Q fever is a zoonotic vector borne disease; USDA at 202-720-5711 & National Center for Emerging and Zoonotic Infectious Diseases at 800-232-4636 (after hours call the Directors Emergency Operations Center at 770-488-7100).
	Samples that test for Re-aerosolization: Obtain wipe samples of the air duct system (filters, areas of particulate deposition) if exposure occurred indoors.
İ	Sample Packaging & Shipping: The packaging & shipping of samples are subject to strict regulations established by DOT, CDC, USPS, OSHA, & IATA. Contact
	the sample-receiving laboratory to determine if they have additional packaging, shipping or labeling requirements (e.g., DO NOT X-RAY). Samples should be packaged in an air-tight container & kept at temperatures of 40-50°F (4-10°C). Ensure samples are not placed directly on the ice used for cooling the shipping container.
Laboratory Analysis	CAUTION: Many labs may not be able to perform analysis on all matrices (e.g., wipes & soil). The goal of laboratory analysis for environmental sampling
	purposes is to determine if viable C. burnetii is present in the sample. Note: The selected laboratory may use a tiered approach. If a tiered approach is used, the
iys at	initial analysis may only determine if select/particular components of the bacterium are present in the sample (e.g., presence or absence). It may take additional time
vna Vna	(up to weeks depending on the laboratory) to determine if the bacterium are viable & still able to cause adverse effects.
► •	
_	
_	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples.
_	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED.
_	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should
	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination,
_	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should
_	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination,
	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical items for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be
	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical items for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used.
	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical items for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used. CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE.
	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical items for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used. CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE. Decon Methods: Decon decisions will be site & situation specific but due to re-aerosolization concerns, under NO circumstances should a non-HEPA vacuum
	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical items for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used. CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE. Decon Methods: Decon decisions will be site & situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum</i> <i>cleaner or a broom be used.</i> EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters & requirements for using readily
	<ul> <li>Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples.</li> <li>CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED.</li> <li>Decon Planning: Site-specific decon/cleanup plan should be developed &amp; approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount &amp; possible pathways that have spread the agent. It is advisable to isolate the contaminated area; &amp; 3) Objectives of decon, including decon of critical items for re-use &amp; the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used.</li> <li>CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE.</li> <li>Decon Methods: Decon decisions will be site &amp; situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum cleaner or a broom be used.</i> EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters &amp; requirements for using readily available commercial items such as household bleach.</li> <li>Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 70% ethanol, 5% chloroform, and 5% Enviro-Chem are able to inactivate <i>C. burnetii</i> after a 30 minute exposure. (Note: Traditional liquid disinfectants such as 0.5 % hypochlorite, 2% Roccal, 5% Lysol, and 5%</li> </ul>
Decontamination/Cleanup	<ul> <li>Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples.</li> <li>CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED.</li> <li>Decon Planning: Site-specific decon/cleanup plan should be developed &amp; approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount &amp; possible pathways that have spread the agent. It is advisable to isolate the contaminated area; &amp; 3) Objectives of decon, including decon of critical items for re-use &amp; the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used.</li> <li>CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE.</li> <li>Decon Methods: Decon decisions will be site &amp; situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum cleaner or a broom be used</i>. EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters &amp; requirements for using readily available commercial items such as household bleach.</li> <li>Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 05% hypochlorite, 2% Roccal, 5% Lysol, and 5% formalin are unable to inactivate 10E8 <i>C. burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigatts: Unfortunately,</li> </ul>
ontamination/Cleanup	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical items for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used. CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE. Decon Methods: Decon decisions will be site & situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum</i> <i>cleaner or a broom be used</i> . EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters & requirements for using readily available commercial items such as household bleach. Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 70% ethanol, 5% chloroform, and 5% Enviro- Chem are able to inactivate 0. <i>burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigants: Unfortunately, chlorine dioxide & vaporized hydrogen peroxide efficacy presently is untested. Other Decon: 1) Chemical sterilization with ethylene oxide and formaldehyde gas can
ontamination/Cleanup	<ul> <li>Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples.</li> <li>CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED.</li> <li>Decon Planning: Site-specific decon/cleanup plan should be developed &amp; approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount &amp; possible pathways that have spread the agent. It is advisable to isolate the contaminated area; &amp; 3) Objectives of decon, including decon of critical items for re-use &amp; the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used.</li> <li>CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE.</li> <li>Decon Methods: Decon decisions will be site &amp; situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum cleaner or a broom be used</i>. EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters &amp; requirements for using readily available commercial items such as household bleach.</li> <li>Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 0.5 % hypochlorite, 2% Roccal, 5% Lysol, and 5% formalin are unable to inactivate C. <i>burnetii</i> after a 24 hour exposure. (Note: Traditional liquid disinfectants such as 0.5 % hypochlorite, 2% Roccal, 5% Lysol, and 5% formalin are unable to inactivate C. <i>burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems</li></ul>
ontamination/Cleanup	<ul> <li>Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples.</li> <li>CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED.</li> <li>Decon Planning: Site-specific decon/cleanup plan should be developed &amp; approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount &amp; possible pathways that have spread the agent. It is advisable to isolate the contaminated area; &amp; 3) Objectives of decon, including decon of critical items for re-use &amp; the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used.</li> <li>CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE.</li> <li>Decon Methods: Decon decisions will be site &amp; situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum cleaner or a broom be used</i>. EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters &amp; requirements for using readily available commercial items such as household bleach.</li> <li>Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 70% ethanol, 5% chloroform, and 5% Enviro-Chem are able to inactivate <i>C. burnetii</i> after a 30 minute exposure. (Note: Traditional liquid disinfectants such as 0.5 % hypochlorite, 2% Roccal, 5% Lysol, and 5% formalin are unable to inactivate <i>C. burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization chamber. 2) Irradiation of limited access areas is required (e.g. HVAC systems). Fumiga</li></ul>
ontamination/Cleanup	<ul> <li>Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples.</li> <li>CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED.</li> <li>Decon Planning: Site-specific decon/cleanup plan should be developed &amp; approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount &amp; possible pathways that have spread the agent. It is advisable to isolate the contaminated area; &amp; 3) Objectives of decon, including decon of critical items for re-use &amp; the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used.</li> <li>CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE.</li> <li>Decon Methods: Decon decisions will be site &amp; situation specific but due to re-aerosolization concerns, under NO circumstances should a non-HEPA vacuum cleaner or a broom be used. EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters &amp; requirements for using readily available commercial items such as household bleach.</li> <li>Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 70% ethanol, 5% chloroform, and 5% Enviro-Chem are able to inactivate C. burnetii after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigants: Unfortunately, chlorine dioxide &amp; vaporized hydrogen peroxide efficacy presently is untested. Other Decon: 1) Chemical sterilization with ethylene oxide and formaldehyde ga</li></ul>
ontamination/Cleanup	<ul> <li>Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples.</li> <li>CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED.</li> <li>Decon Planning: Site-specific decon/cleanup plan should be developed &amp; approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount &amp; possible pathways that have spread the agent. It is advisable to isolate the contaminated area; &amp; 3) Objectives of decon, including decon of critical items for re-use &amp; the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used.</li> <li>CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE.</li> <li>Decon Methods: Decon decisions will be site &amp; situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum cleaner or a broom be used</i>. EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters &amp; requirements for using readily available commercial items such as household bleach.</li> <li>Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 70% ethanol, 5% chloroform, and 5% Enviro-Chem are able to inactivate 10E8 <i>C. burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigatis: Unfortunately, chlorine dioxide &amp; vaporized hydrogen peroxide efficacy presently is untested. Other Decon: 1) Chemical sterilization with ethylene oxide and formal</li></ul>
ontamination/Cleanup	<ul> <li>Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples.</li> <li>CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED.</li> <li>Decon Planning: Site-specific decon/cleanup plan should be developed &amp; approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount &amp; possible pathways that have spread the agent. It is advisable to isolate the contaminated area; &amp; 3) Objectives of decon, including decon of critical items for re-use &amp; the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used.</li> <li>CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE.</li> <li>Decon Methods: Decon decisions will be site &amp; situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum cleaner or a broom be used</i>. EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters &amp; requirements for using readily available commercial items such as household bleach.</li> <li>Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 0.5 % hypochlorite, 2% Roccal, 5% Lysol, and 5% formali nare unable to inactivate 10E8 <i>C. burnetii after a 24</i> hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigants: Unfortunately, chlorie divide &amp; vaporized hydrogen peroxide efficacy presently is untested. Other Decon: 1) Chemical sterilization with ethylene oxide</li></ul>
ontamination/Cleanup	<ul> <li>Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples.</li> <li>CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED.</li> <li>Decon Planning: Site-specific decon/cleanup plan should be developed &amp; approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount &amp; possible pathways that have spread the agent. It is advisable to isolate the contaminated area; &amp; 3) Objectives of decon, including decon of critical items for re-use &amp; the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used.</li> <li>CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE.</li> <li>Decon Methods: Decon decisions will be site &amp; situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum cleaner or a broom be used</i>. EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters &amp; requirements for using readily available commercial items such as household bleach.</li> <li>Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 0.5 % hypochlorite, 2% Roccal, 5% Lysol, and 5% formali nare unable to inactivate 10E8 <i>C. burnetii after a 24</i> hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigants: Unfortunately, chlorie divide &amp; vaporized hydrogen peroxide efficacy presently is untested. Other Decon: 1) Chemical sterilization with ethylene oxide</li></ul>
ontamination/Cleanup	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical items for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used. CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE. Decon Methods: Decon decisions will be site & situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum</i> <i>cleaner or a broom be used</i> . EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters & requirements for using readily available commercial items such as household bleach. Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 70% ethanol, 5% chloroform, and 5% Enviro- Chem are able to inactivate 10E8 <i>C. burnetii</i> after a 24 hour exposure. (Note: Traditional liquid disinfectants such as 0.5 % hypochlorite, 2% Roccal, 5% Lysol, and 5% formalin are unable to inactivate 10E8 <i>C. burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigatis: Unfortunately, chlorine dioxide & vaporized hydr
Decontamination/Cleanup	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical items for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used. CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE. Decon Methods: Decon decisions will be site & situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum</i> <i>cleaner or a broom be used</i> . EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters & requirements for using readily available commercial items such as household bleach. Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 0.5 % hypochorite, 2% Roccal, 5% Lysol, and 5% formalin are unable to inactivate 10E8 C. <i>burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigants: Unfortunately, chlorine dioxide & vaporized hydrogen peroxide efficacy presently is untested. Other Decon: 1) Chemical sterilization with thylene oxide and formaldehyde gas can be used to decontaminate items in an
Decontamination/Cleanup	<ul> <li>Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples.</li> <li>CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED.</li> <li>Decon Planning: Site-specific decon/cleanup plan should be developed &amp; approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount &amp; possible pathways that have spread the agent. It is advisable to isolate the contaminated area; &amp; 3) Objectives of decon, including decon of critical items for re-use &amp; the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used.</li> <li>CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE.</li> <li>Decon Methods: Decon decisions will be site &amp; situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum cleaner or a broom be used</i>. EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters &amp; requirements for using readily available commercial items such as household bleach.</li> <li>Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 0.5 % hypochlorite, 2% Roccal, 5% Lysol, and 5% formalin are unable to inactivate 10E8 C. <i>burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, or aidroxy presently is untested. Other Decon: 1) Chemical sterilization with ethylene oxide and formaldehyde gas can be used to decontaminate items in an off-site sterilization chamber. 2) Irradiation with cobalt-60 &amp; electron beam technologies can be used to</li></ul>
Decontamination/Cleanup	<ul> <li>Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples.</li> <li>CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED.</li> <li>Decon Planning: Site-specific decon/cleanup plan should be developed &amp; approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount &amp; possible pathways that have spread the agent. It is advisable to isolate the contaminated area; &amp; 3) Objectives of decon, including decon of critical items for re-use &amp; the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used.</li> <li>CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE.</li> <li>Decon Methods: Decon decisions will be site &amp; situation specific but due to re-aerosolization concerns, under NO circumstances should a non-HEPA vacuum cleaner or a broom be used. EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters &amp; requirements for using readily available commercial items such as household bleach.</li> <li>Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 0.5 % hypochlorite, 2% Roccal, 5% Lysol, and 5% formalin are unable to inactivate 0. <i>burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination with cobalt-60 &amp; electron beam technologies can be used to destroy C. <i>burnetii</i> at are intended to be returned to owners.</li> <li>Verification of Decon: Site and situation specific. Please contact ERT (732-321-6660) and</li></ul>
Decontamination/Cleanup	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purily, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical items for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used. CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE. Decon Methods: Decon decisions will be site & situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum</i> <i>cleaner or a broom be used</i> . EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters & requirements for using readily available commercial items such as household bleach. Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 0.5 % hypochlorite, 2% Roccal, 5% Lysol, and 5% formalin are unable to inactivate 10E8 C. <i>burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigatis: Unfortunately, chlorine dioxide & vaporized hydrogen peroxide efficacy presently is untested. Other Decon: 1) Chemical sterilization with ethylene oxide and formaldehyde gas can be used to decontaminate items in
Decontamination/Cleanup	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOLLD BE USED. Decon Planning: Site-specific decon(learunp plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical items for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used. CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE. Decon Methods: Decon decisions will be site & situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum</i> <i>cleaner or a broom be used</i> . EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters & requirements for using readily available commercial items such as household bleach. Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming: 2) Liquid disinfectants such as 0.5 % hypochlorite, 2% Roccal, 5% Lysol, and 5% formalin are unable to inactivate 10E8 <i>C. burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigants: Unfortunately, chlorine dioxide & vaporized hydrogen peroxide efficacy presently is untested. Other Decon: 1) Chemical sterilization with ethylene oxide and formaldehyde gas can be used to decontaminate items in
Decontamination/Cleanup	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOLLD BE USED. Decon Planning: Site-specific decon/cleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical items for ne-use & Ithe treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used. CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE. Decon Methods: Decon decisions will be site & situation specific but due to re-aerosolization concerns, under NO circumstances should a non-HEPA vacuum cleaner or a broom be used. EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters & requirements for using readily available commercial items such as household bleach. Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 70% ethanol, 5% chloroform, and 5% Enviro- Chem are uable to inactivate 10EB C. <i>burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Ubes gas or vapor to decontamination formately, chlorine dioxide & vaporized hydrogen peroxide efficacy presently is untested. Other Decon: 1) Chemical sterilization with ethylene oxide and formaldehyde gas can be used to decontamination, re-aerosolization, or if decontamination of limited access areaes is required (e.g. HVAC Systems). Fumigants: Uhrofinately, chlorine dioxide & vaporized hydrogen peroxide efficacy presently is untested
ontamination/Cleanup	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/leanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical liems for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used. CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE. Decon Methods: Decon decisions will be site & situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum</i> <i>cleaner or a broom be used</i> . EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters & requirements for using readily available commercial items such as household bleach. Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 70% ethanol, 5% chloroform, and 5% Enviro- Chem are able to inactivate 10E8 <i>C. burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigatts: Unfortunately, chlorine dioxide & vaporized hydrogen peroxide efficacy presently is untested. Other Decon: 1) Chemical sterilization with ethylene oxide and formaldehyde gas can be used to decontaminate items in an off-site
Decontamination/Cleanup	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/icleanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area, & 3) Objectives of decon, including decon of critical items for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used. CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE. Decon Methods: Decon decisions will be site & situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum</i> <i>cleaner or a broom be used</i> . EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters & requirements for using readily available commercial items such as household bleach. Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 0.5 % hypochlorite, 2% Roccal, 5% Lysol, and 5% formalin are unable to inactivate 10E8 <i>C. burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigation: Unfortunately, chorine dioxide & vaporized hydrogen pervide efficacy presently is untested. Other Decon: 1) Chemical sterilization with ethylene oxide and formaldehyde gas can be used to decontaminate items in
Decontamination/Cleanup	Laboratory Information: Contact EPA/HQ-EOC (202-564-3850) for ERLN contract laboratories able to analyze these types of samples. CAUTION: ONLY MANUFACTURER CERTIFIED HEPA VACUUM EQUIPMENT SHOULD BE USED. Decon Planning: Site-specific decon/leanup plan should be developed & approved by all necessary organizations/SMEs via ICS channels. Responders should develop a plan that takes into account: 1) Nature of contamination including purity, physical properties, how it entered the facility, etc.; 2) Extent of contamination, including the amount & possible pathways that have spread the agent. It is advisable to isolate the contaminated area; & 3) Objectives of decon, including decon of critical liems for re-use & the treatment, removal, or packaging of other items for disposal. Note: Crisis exemptions from EPA's Office of Pesticide Programs might be necessary depending on decontaminating agents used. CAUTION: DECON SOLUTIONS SHOULD NOT BE DEPLOYED AS A SPRAY WHENEVER POSSIBLE. Decon Methods: Decon decisions will be site & situation specific but due to re-aerosolization concerns, <i>under NO circumstances should a non-HEPA vacuum</i> <i>cleaner or a broom be used</i> . EPA's National Decon Team (800-329-1841) can provide specific decontamination parameters & requirements for using readily available commercial items such as household bleach. Methods used on surfaces: 1) Source reduction steps, including HEPA vacuuming; 2) Liquid disinfectants such as 70% ethanol, 5% chloroform, and 5% Enviro- Chem are able to inactivate 10E8 <i>C. burnetii</i> after a 24 hour exposure at 25°C.) Fumigation: Uses gas or vapor to decontaminate facilities in which there is evidence of high levels of contamination, re-aerosolization, or if decontamination of limited access areas is required (e.g. HVAC systems). Fumigatts: Unfortunately, chlorine dioxide & vaporized hydrogen peroxide efficacy presently is untested. Other Decon: 1) Chemical sterilization with ethylene oxide and formaldehyde gas can be used to decontaminate items in an off-site