

Chemical Release Investigation Kit & Template (CRIKT) For Local Health Departments



CHEMICAL	TRADE NAME(S)
Trichloroethylene	TCE, Ethylene trichloride, Trichloroethene, Trilene
PREPARING FOR THE INVESTIGATION	
Know the Agent	<ul style="list-style-type: none"> • Trichloroethylene is a nonflammable, colorless liquid with a sweet odor and sweet, burning taste. <ul style="list-style-type: none"> ○ Read about trichloroethylene in the Trichloroethylene Fact Sheet. ○ For additional information, visit: www.atsdr.cdc.gov/substances/toxsubstance.asp?toxid=30 • Contact: <ul style="list-style-type: none"> ○ Public Health Preparedness & Response Branch (PHP&R): 888.820.0520. ○ N.C. Emergency Management Desk: 1.800.858.0368. If appropriate, contact local Emergency Management. • Print and review form: <ul style="list-style-type: none"> ○ Chemically Exposed Persons Line Listing.
CONDUCTING THE INVESTIGATION	
Evaluate Release/Exposure	<ul style="list-style-type: none"> • Define scale/scope of release/exposure (work with N.C. Emergency Management, HazMat, an Environmental Health Specialist at the local or state level, N.C. Department of Environment and Natural Resources [N.C. DENR], and U.S. Environmental Protection Agency [U.S. EPA] if applicable).
Identify Route of Human Chemical Exposure	<ul style="list-style-type: none"> • Identify route of exposure: <ul style="list-style-type: none"> ○ Inhalation ○ Ingestion

	<ul style="list-style-type: none"> ○ Dermal (Skin) ○ Injection ● Interview responders and/or exposed individuals to obtain additional information about the trichloroethylene exposure within 24-hours.
<p>Describe Exposed Population</p>	<ul style="list-style-type: none"> ● Determine the following: <ul style="list-style-type: none"> ○ Geographic area affected. ○ Population affected (general population, employees, and residents). ○ How population exposed (in vicinity, inhalation, or direct contact). ○ Define cases within the exposed population. ○ Contact OEEB (919.707.5900) to assist in developing a risk assessment to be shared with officials. ○ Once completed, provide OEEB with the Chemically Exposed Persons Line Listing.
<p>Implement Control Measures to Prevent Additional Exposures</p>	<ul style="list-style-type: none"> ● Decide on measures to protect citizens and the surrounding communities. ● The environmental health specialist will consult with OEEB to discuss next steps to ensure no additional individuals are exposed. ● Inform residents/businesses of the trichloroethylene exposure through local emergency notification system, local TV and radio. Important points to include: <ul style="list-style-type: none"> ○ Location of release/exposure. ○ Geographic area affected. ○ Shelter-in-place instructions, if applicable. ○ Where to evacuate if needed. ○ Where to find shelter. ○ Where to seek medical care. ○ For more information, please listen to your local radio station or watch your local news channel.

	<ul style="list-style-type: none"> • Work with your local incident management team and local health director to determine steps to be taken to re-enter residences/businesses. <ul style="list-style-type: none"> ○ The local incident management team will determine when residences/businesses are acceptable for re-entry and alert the local health director, who will then participate in the final decision. ○ Your local health director will then communicate with the on-scene coordinator. ○ The on-scene coordinator will then communicate to the community when they are permitted to return home or to their place of employment.
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INVESTIGATION RESULTS

<p style="text-align: center;">Case Finding</p>	<ul style="list-style-type: none"> • During the course of the investigation, interview other exposed individuals for symptoms related to the trichloroethylene exposure. <ul style="list-style-type: none"> ○ Work with your local medical facilities, local incident management team and/or the first responders to compile the exposed persons' information. ○ Contact local hospitals to determine total number injured, hospitalized, ED visits, and deceased. ○ Contact N.C. DETECT, North Carolina's state syndromic surveillance system for additional information: 919.843.2361. • Advise symptomatic individuals, especially children, to see their healthcare provider immediately for evaluation.
<p style="text-align: center;">Routine Precautions</p>	<ul style="list-style-type: none"> • Communicate the following control measures with residents/business owners. <ul style="list-style-type: none"> ○ Open all windows once residences/businesses are re-entered.

	<ul style="list-style-type: none"> ○ Wash skin thoroughly with soap and water if come into direct skin contact.
SPECIAL CONSIDERATIONS	
Risk Communication	<ul style="list-style-type: none"> • N.C. DHHS Communications Office 919. 855.4840 is available to assist local health departments as needed.
ADDITIONAL INFORMATION	
Glossary of Terms	<p>ATSDR: Agency for Toxic Substances & Disease Registry</p> <p>DENR: Department of Environment and Natural Resources</p> <p>ED: Emergency Department</p> <p>EHS: Environmental Health Specialist</p> <p>EPA: Environmental Protection Agency</p> <p>OEEB: Occupational and Environmental Epidemiology Branch</p> <p>PHP&R: Public Health Preparedness & Response</p>

