

U.S. Environmental Protection Agency
ABC One-Hour Cleaners Site
 Jacksonville, North Carolina



Proposed Plan Fact Sheet

May 2018

EPA will host a public meeting to discuss the Proposed Plan and address your concerns at the Onslow Public Library

Thursday, June 14, 2018
6:00 pm -8:00 pm EST

EPA wants your participation.

The public comment period to raise any questions or concerns regarding the **Interim Action for Soils Proposed Plan** is **June 14, 2018 – July 14, 2018**

At the end of the Public Comment Period, EPA will select the most appropriate cleanup effort to address the soil contamination. The selected soil cleanup remedy will be discussed and all public comments will be addressed in the *Interim Action ROD for Soils at OU3 of the ABC One-Hour Cleaners Superfund Site*.

Introduction

The U.S. Environmental Protection Agency invites the public to comment on the *Proposed Plan for the ABC One-Hour Cleaners' Interim Remedial Action for Soils at OU-3* (Proposed Plan). This fact sheet summarizes EPA's proposed interim action to address the soil contamination at the ABC One-Hour Cleaners Superfund Site. The public is encouraged to comment on the Proposed Plan during the comment period. The Proposed Plan and associated documents related to the ABC One-Hour Cleaners Site activities are available in the Administrative Record of the Information Repository housed at the *Onslow Public Library located at 58 Doris Avenue East, Jacksonville, North Carolina* as well as the EPA ABC One-Hour Cleaners webpage: <https://www.epa.gov/superfund/abc-one-hour-cleaners>

Public Comment

EPA relies on public input to ensure the concerns of the community are considered in selecting an effective remedy for each Superfund Site. The public comment period is scheduled from June 14, 2018 through July 14, 2018. The Administrative Record and Information

Repository for the ABC One-Hour Cleaners Superfund Site, which include the Focused Remedial Investigation\Focused Feasibility Study (FRI/FFS), are located at the Onslow County Public Library located at 58 Doris Avenue East, Jacksonville, North Carolina.

EPA will host a [public meeting on Thursday, June 14, 2018, at the Onslow County Public Library from 6:00 pm - 8:00 pm](#). Representatives from EPA and North Carolina Department of Environmental Quality (NCDEQ, the State) will present the details of the Proposed Plan to address the environmental impacts at the ABC One-Hour Cleaners Superfund Site, accept input from the public, and answer any questions the public may have regarding the preferred cleanup remedy. You may email or mail your comments to Anna Cornelious at cornelious.anna@epa.gov or Anna Cornelious at US EPA; Mail Code: 9T25, 11th Floor, 61 Forsyth Street, SW, Atlanta GA 30303.

Background

The ABC One-Hour Cleaners Site (the Site) is a former dry-cleaning facility located in Jacksonville, North Carolina. The Site is located on Lejeune Boulevard, NC Highway 24, approximately two miles from the Camp Lejeune Marine Corps Base. The Site sits on one-acre and was comprised of three buildings that were connected to form one unit. A septic tank system was housed in the middle building. The wastes that were poured into the septic tank system settled in a drain field. The septic tank system and drain field are considered the 'pit area'. From 1964 until 2005, ABC One-Hour Cleaners regularly used Tetrachloroethylene (PCE) as a solvent to remove stains in clothing. PCE residues were buried around the

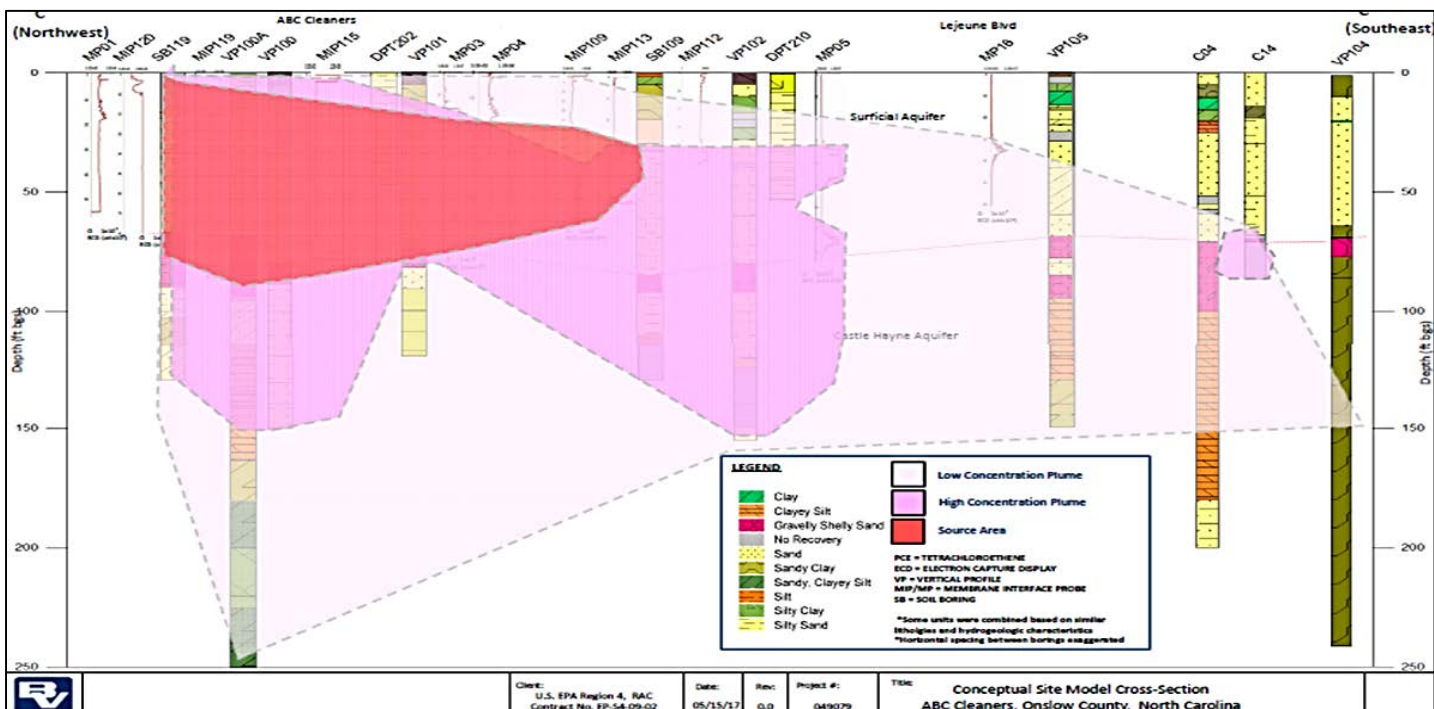
pit area, while PCE wastewater was discharged into the septic tank system.

In 1984, as part of a routine water quality evaluation, the United States Marine Corp (USMC) collected groundwater samples and determined that volatile organic compounds (VOCs) including, dichloroethylene (DCE), trichloroethylene (TCE), and PCE were present at concentrations that were higher than the federal and state safe drinking water levels. These contaminants are identified as the Site's Contaminants of Concern (COCs). The investigations further determined that groundwater contamination was making its way into the drinking water supply for Camp Lejeune's housing community, Tarawa Terrace. To protect the public health, the water supply line was transferred to the Holcomb Boulevard Water System. The State conducted a subsequent groundwater study in 1985 and determined that ABC One-Hour Cleaners was a source of contamination. As a result, the Site was proposed for the National Priorities List (NPL) by EPA on June 24, 1988, which became final on March 31, 1989.



Figure showing the outline of the former ABC One-Hour Cleaners Site

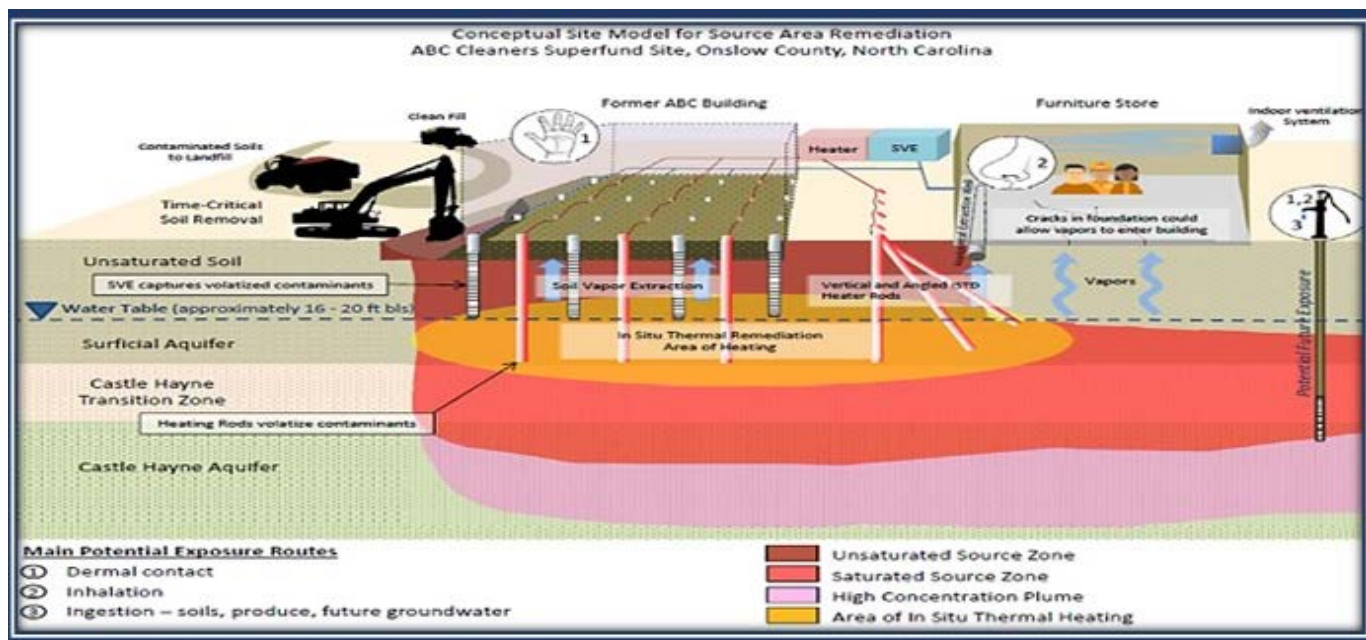
Remedial Investigations



Conceptual Site Model which shows the extent of soil and groundwater contamination in relation to the Site.

In 1989, EPA conducted additional investigations where contamination was identified in, both, the groundwater and soil at the Site. To better focus on each media, EPA established two Operable Units (OU). OU-1 addressed the groundwater contamination and OU-2 the soil contamination. Each OU required separate investigations and cleanup efforts. The OU-1 RI/FS, where the groundwater contamination was further characterized, was completed in 1992. The OU-1 Record of Decision (ROD) was completed in 1993, selecting pump-and-treat with Monitored Natural Attenuation (MNA) as the remedy to address the groundwater contamination. The pump-and-treat with MNA operated from 2002 until 2011.

The OU-2 RI/FS was completed in 1994. It identified source material in pit area. Source material is soils that are/were in direct contact with the PCE residues and have the highest PCE concentrations. The presence of source material indicates potential for vapors from the underlying soils to enter buildings and impact indoor air quality. Impacts on indoor air quality from contaminated soil vapor is Vapor Intrusion (VI). To address these identified concerns, the OU-2 ROD was issued in 1994, selecting a soil vapor extraction (SVE) system as the remedy. The SVE operated from 2000 until 2011 and removed over 1,100 pounds of PCE. In 2011, the Site's buildings were condemned due to impacts from Hurricane Irene. The buildings have since been demolished. The foundation of the buildings; however, remain intact to prevent exposure to the underlying contaminated soils.



This is a model of the soil and groundwater contamination identified at the Site. The diagram also presents the risks associated with the contamination and the EPA's preferred cleanup method to address the contamination.

Annual groundwater monitoring investigations determined that significant soil and groundwater contamination remain at the Site. In 2016, EPA conducted the OU-3 Focused RI/FS (FRI/FFS), which combines the groundwater and soil media, to determine the most effective manner to address the remaining contamination. The FRI/FFS was completed in 2018 and identified (1) additional source material near the pit area and (2) potential VI concerns in adjoining buildings. These conclusions resulted in the evaluation of several cleanup options that are appropriate to address the groundwater and soil contamination.

EPA'S Preferred Cleanup Remedy

EPA, in efforts to effectively address the contamination identified at the Site, proposes to implement the cleanup efforts in phases. The phases have been established based on the media (soil or groundwater) and the levels of PCE concentrations detected in each media. The proposed cleanup remedies are discussed in the Proposed Plan. Contaminated soils are classified as either (1) source material; (2) soils that are contained within the Unsaturated Source Zone (USZ); or (3) soils that are contained within the Saturated Source Zone (SSZ).

The remedial goals established to measure the effectiveness of the selected cleanup remedy include:

- Prevent ingestion/dermal contact/and/or inhalation of soils in the pit area and remaining soils containing COCs at concentrations which could result in adverse health effects to humans; and
- Reduce or eliminate source material from impacting groundwater or vapors from the source material impacting indoor air quality by addressing the source material contamination and achieving VI goals.

The removal of source material is proposed to be the first component of the preferred soil cleanup remedy. The pit area and source material would be removed and taken to an off-site disposal facility. With these removal actions, PCE concentrations are expected to be significantly reduced in the underlying soils and groundwater. During the removal, vapor mitigation systems will be installed in buildings that sit above the source material. The remaining soils, those contained in the USZ and SSZ, are proposed to be treated by **In-Situ Thermal Remediation (ISTR) with Limited SVE**. This remedy involves heating the contaminated soils to a temperature where the contaminants will vaporize. The contaminated vapors will be captured, treated, and released by the SVE system.

ISTR with limited SVE is preferred as it is the most aggressive treatment to address PCE contamination in the soils. Although this treatment is relatively complex to install and operate, it is well proven and reliable; deemed the most protective remedy for human health and the environment; can be implemented in a short timeframe; and requires minimal disruption to the community. Groundwater contamination will be addressed in a separate Proposed Plan and Groundwater IROD. After the selected groundwater remedy has been implemented, a Final ROD will be issued to address any remaining contamination.

For More Information

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THE PUBLIC COMMENT PERIOD IS SCHEDULED TO BEGIN ON JUNE 14, 2018 AND END ON JULY 14, 2018

You can share your comments on EPA's Preferred Soil Cleanup Remedy in the following ways during the Public Comment Period. The FRI/FFS and the *Proposed Plan for the ABC One-Hour Cleaners' Interim Remedial Action for Soils at OU-3* will be posted on the ABC One-Hour Cleaners' Website at

<https://www.epa.gov/superfund/abc-one-hour-cleaners>

A copy of these documents will also be available at the Onslow Public Library.

You can mail your comments

EPA will accept written comments on the *Proposed Plan for the ABC One-Hour Cleaners' Interim Remedial Action for Soils at OU-3*.

Simply mail them to:

Anna Cornelious at the mailing address above.

OR

You can email your comments

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