



# COMMUNITY UPDATE INFORMATION SHEET

## CTS of Asheville, Inc. Superfund Site

### Asheville, Buncombe County, North Carolina

May 16, 2014

*EPA is committed to keeping the community informed about activities related to the CTS of Asheville, Inc. Superfund Site. Community Update Information Sheets will be published approximately monthly and will summarize the present status, future activities, and community involvement opportunities. Historical information has been presented in previous editions.*

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The CTS of Asheville, Inc. Superfund Site (CTS Site) is located on Mills Gap Road in Asheville, Buncombe County, North Carolina, and also includes the areal extent of contamination. It is in an area known as Skyland, which is approximately 5 miles south of Asheville. The former facility is bordered by Mills Gap Road to the north, and residences and undeveloped land to the east, south, and west. The primary contaminant associated with the CTS Site is trichloroethene (TCE).

### **WATER LINE CONSTRUCTION UNDERWAY**

T&K Utilities, Inc. has begun construction of the CTS Water Line Extension project. The entire project will take approximately one year to complete. Ellum Engineering will be visiting with home owners as the project proceeds. The City will waive the normal service connection fees for homes that connect to the municipal water supply under this project. As homes are connected to the municipal water supply, EPA will coordinate with home owners to schedule appointments to remove the Culligan installed whole house well water filtration systems.

If you choose not to connect to the municipal water system, CTS will continue to monitor and maintain the Culligan installed filtration systems until the investigation is completed that determines the extent of the contaminated ground water plume.

If you are ok with EPA sharing your phone number and/or whether or not you have a filtration system with Buncombe County and Ellum Engineering, please let us know.

If you have questions about the CTS Water Line Extension, please contact:

Mike Goodson

828-250-4854

[mike.goodson@buncombecounty.org](mailto:mike.goodson@buncombecounty.org)

or

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## DRINKING WATER WELL SAMPLING



AMEC personnel collecting a well water sample in April 2014

The 2<sup>nd</sup> quarterly drinking water sampling event of 2014 was completed during the week of **April 14-18, 2014**. EPA will mail results to home owners after the results are received.

For homes with Culligan installed whole house well water filtration systems, AMEC Environment & Infrastructure, Inc. (AMEC) personnel collected two samples, with an EPA contractor providing oversight. One sample was collected from water before it enters the filtration system in order to evaluate the quality of the unfiltered ground water and a second sample was collected after the water flows through the filtration system to evaluate the quality of the filtered water entering the home. For homes that have not had the filtration system installed, only one sample was collected to evaluate the quality of the unfiltered ground water.

All samples will be analyzed by Pace Analytical Services, Inc. for volatile organic compounds (VOCs) that are associated with the CTS Site. These VOCs include: 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene, toluene, 1,1,1-trichloroethane, TCE, and vinyl chloride. None of these VOCs have been detected in the 2013 quarterly sampling events or the January 2014 sampling event. The April results have not yet been received by EPA.

## WHOLE HOUSE WATER FILTRATION SYSTEM UPDATE

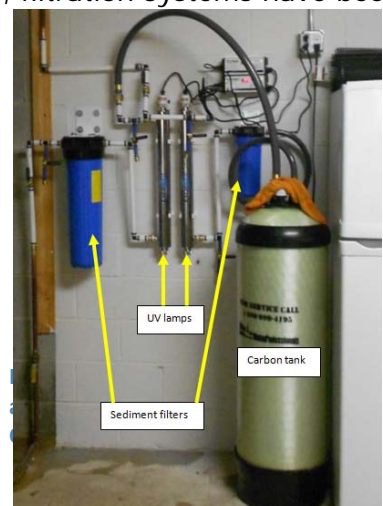
*Culligan provides routine servicing and maintenance of their system and is responsible for repairing malfunctions as a result of ordinary use and operation. If an issue arises, please call Culligan immediately:  
**828-251-2420***

In 2012, CTS Corporation offered to install, monitor and maintain whole house water filtration systems for homes that are located within a one mile radius of the CTS Site that rely on well or spring water as their drinking water source **at no cost to the home owners**. The filtration design includes two sediment filters, a carbon filter tank, and an ultraviolet light, at a minimum.

Culligan began installing filtration systems in September 2012. As of today, filtration systems have been installed to protect the drinking water of 100

homes and 2 more are scheduled to be installed in this month. If you have not accepted the filtration system offer yet and do not want to connect to the municipal water supply system, please contact Samantha or Angela. Our contact information is included on the last page.

The standard filtration systems will filter out some metals that are attached to sediment, remove organic chemicals that could possibly enter your well water, and kill bacteria that may be in your water. This is being offered as a preventative/safety measure to protect your water until the Remedial Investigation is completed and a final remedy selected, and/or you connect to the municipal water supply, whichever occurs first.



## VAPOR INTRUSION ASSESSMENT

In 2012, AMEC conducted a Vapor Intrusion (VI) Assessment at several homes within Southside Village, which is adjacent to the western fence line of the former CTS manufacturing building. The results indicated that concentrations were within acceptable levels for residential land use.



April 2014 - Summa canister collecting an outdoor air sample over a 24-hour period.

A few months ago, the property owners adjacent to the eastern fence line gave CTS Corporation and EPA permission to conduct the VI assessment on their properties. EPA approved AMEC's revised Vapor Intrusion Assessment Work Plan (Revision 4) on March 28, 2014, and sampling was conducted on the properties to the east of the fence line during the week of April 21-24, 2014. The sampling report is expected to be received by EPA in June.



April 2014 - Summa canister collecting a crawl space air sample over a 24-hour period.

## SOIL VAPOR EXTRACTION (SVE) CONFIRMATION SAMPLING

AMEC submitted the Soil Vapor Extraction (SVE) Confirmation Sampling Report to EPA on May 5<sup>th</sup>. The report indicates that the SVE system removed approximately 6,473 pounds of volatile organic compounds during the 4 years that it operated (2006-2010). The concentrations of trichloroethene (TCE) detected in the November 2013 sampling confirmed that concentrations of TCE in the soils within the treatment area of the SVE system (under/near the former plant building) have been reduced significantly. In the top 10 feet of soil sampled, TCE concentrations were below EPA's screening values for TCE for industrial property use in all except one sample and below EPA's screening values for TCE for residential property use in all except 2 sample locations. The concentrations in the 10-15 feet deep zone were higher than screening values, but were significantly less than the concentrations detected in that same zone before the SVE system was used to remove contaminants from the soils. The following table shows a comparison between sample concentrations detected in the same area and similar depths from 2001/2004 data compared to the 2013 data collected. EPA staff are currently reviewing the report.

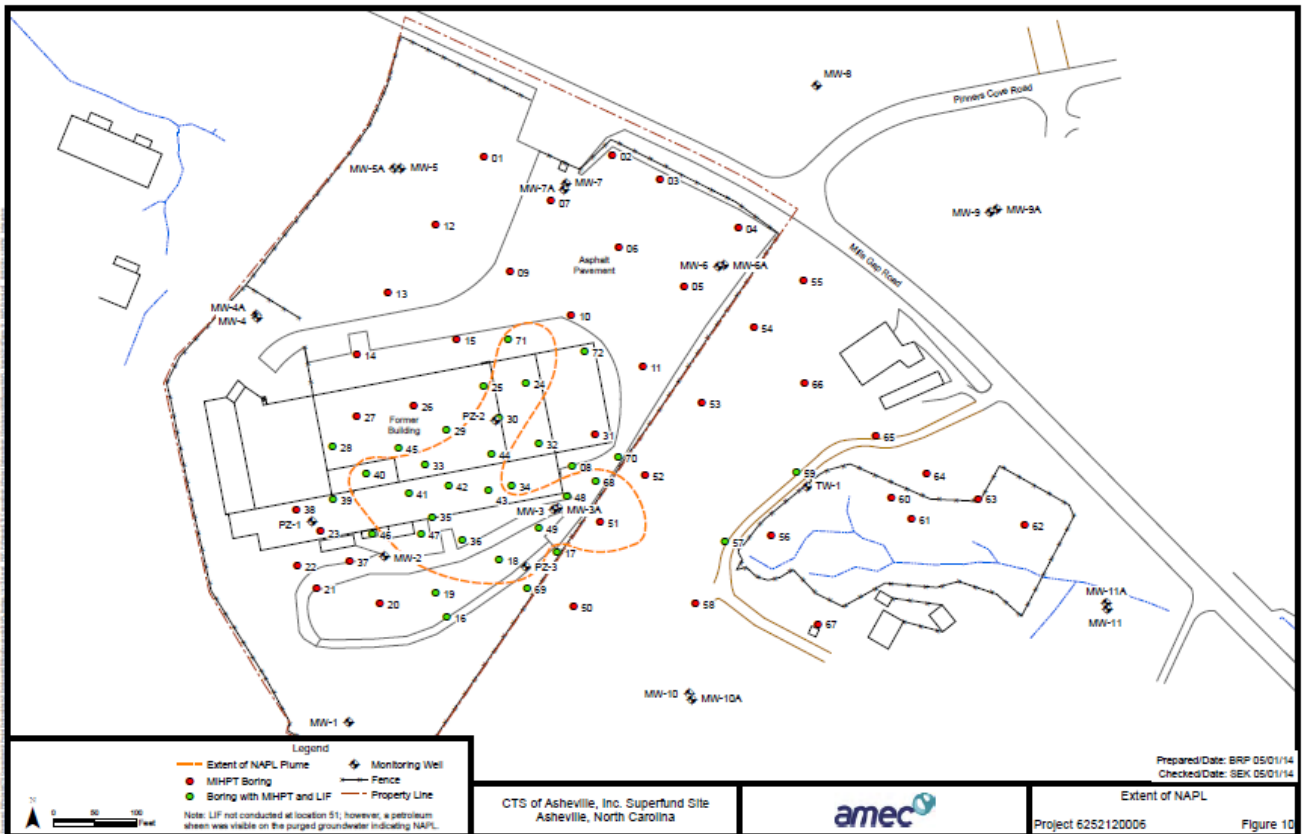
2001/2004 Boring (Sample Depth in feet bgs)	2001/2004 TCE Concentration (µg/kg)	CSAP Boring (Sample Depth in feet bgs)	CSAP TCE Concentration (µg/kg)	Percent Reduction
BH-1 (12.0 – 16.0)	280,000	CTSCSS-SB-205-14-15 (14 – 15)	19,400	93%
BH-12 (12.0 – 16.0)	110,000	CTS-SB-07-13-14 (13 – 14)	ND (MDL = 5.1)	>99.9%
BH-22B (12.5 – 13.5)	12,000	CTSCSS-SB-206-14-15 (14 – 15)	481	96%
BH-34B (12.0 – 13.5)	440,000	CTSCSS-SB-207-13-14 (13 – 14)	47,400	89%
ND = not detected above the method detection limit MDL = method detection limit			Prepared By: SEK 4/14/14 Checked By: MEW 4/23/14	

# NAPL INVESTIGATION

AMEC submitted the Non-Aqueous Phase Liquids (NAPL) Investigation Report to EPA on May 5<sup>th</sup>. The work included a multi-step process to better understand how deep and wide the highest concentrated contamination exists on and next to the former plant property. The work was divided into the following 9 tasks:

- Task 1: Measure depth to water in monitoring wells
- Task 2: Gauge monitoring wells/piezometers for NAPL; sample NAPL if identified
- Task 3: Conduct Membrane Interface Probe (MIP) investigation
- Task 4: Conduct Laser Induced Fluorescence (LIF) investigation
- Task 5: Conduct Hydraulic Profiling Tool (HPT) investigation
- Task 6: Review direct sensing data
- Task 7: Collect soil samples
- Task 8: Collect groundwater samples
- Task 9: Survey soil/groundwater boring locations

The report indicates that NAPL is indeed present, as anticipated. However, the NAPL plume appears to be a mixture of TCE and petroleum products. EPA staff are currently reviewing the report.



## TECHNICAL ADVISER HIRED BY POWER ACTION GROUP

As mentioned in the last Community Update, in October 2013, EPA awarded POWER Action Group (POWER) a Technical Assistance Grant and in February 2014, POWER hired Frank Anastasi of SCA Associates, of Rockville, Maryland, to serve as the Technical Adviser. Mr. Anastasi is a Professional Geologist with many years of experience in site investigations and remediation projects. On May 12, 2014, POWER hosted a meeting between them, their legal adviser, Mr. Anastasi, and EPA staff in order for EPA to meet Mr. Anastasi and to provide POWER with information on the current site status. EPA staff feel that it was a productive meeting of information sharing. More information about Mr. Anastasi and POWER can be found at: <http://poweractiongroup.org/>.

## QUESTION/TOPIC OF THE MONTH

To help better educate the community on topics related to the CTS Site, we created this segment in the community update. If you have concerns or questions that you would like more information on, please let us know.

*Pipes have been lying in a field near my home for weeks and they haven't moved. Have they really begun installing water lines? I haven't seen any construction in my neighborhood.*

The construction contractor is using at least one property, with the property owner's permission, to store pipes and equipment needed for the water line extension project. They have begun constructing the water line project, but are not working in that particular neighborhood yet. As the project continues, a representative of Ellum Engineering will be visiting with home owners to determine if the home owner wants to connect to the municipal water line, and if so, to discuss where to run the water line from the main line to the home.

Buncombe County and Ellum Engineering have requested that EPA provide them with a list of homes that have Culligan filtration systems installed for residents within the mile-radius where water line connections are planned. Due to privacy concerns, EPA cannot provide them with this information unless the home owner gives us permission to. If you are ok with EPA providing Buncombe County and Ellum Engineering with your phone number and whether or not you have a Culligan filtration system installed, please let us know.

## Contact Information

### **EPA**

#### **Angela Miller**

Community Involvement Coordinator  
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678.575.8132 (cell)

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### **NCDENR**

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Environmental Engineer  
919.707.8339

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### **Buncombe County**

#### **Mandy Stone**

Assistant County Manager  
828.250.5587

[MANDY.STONE@BUNCOMBECOUNTY.ORG](mailto:MANDY.STONE@BUNCOMBECOUNTY.ORG)

#### **Mike Goodson**

(Managing CTS Water Line Extension  
Project)

828.250.4854

[MIKE.GOODSON@BUNCOMBECOUNTY.ORG](mailto:MIKE.GOODSON@BUNCOMBECOUNTY.ORG)

### **Culligan**

828.251.2420

[CULLIGANWNC@BELLSOUTH.NET](mailto:CULLIGANWNC@BELLSOUTH.NET)

### **Community Groups**

#### **Concerned Citizens for Mills Gap Cleanup**

Glen Horecky

[GEH4@MSN.COM](mailto:GEH4@MSN.COM)

#### **TAG Recipient:**

#### **POWER Action Group**

(Protecting Our Water and Environmental  
Resources)

Lee Ann Smith

[UPTHISHILL@BELLSOUTH.NET](mailto:UPTHISHILL@BELLSOUTH.NET)

## Information Repository

EPA has established an information repository for the public to review some of the documents related to the Site and the Superfund program. The local repository does not include all documents related to the Site. Additional documents may be made available by EPA upon request. The local information repository is located at the:

Pack Memorial Library  
67 Haywood Street  
Asheville, North Carolina 28801-2834

## EPA Website

EPA has a website specifically for the CTS of Asheville, Inc. Superfund Site. The website address is:

<http://www.epa.gov/region4/superfund/sites/npl/northcarolina/millsgapnc.html>

## Websites created by community members

- Clean Asheville: <http://cleanasheville.info>
- POWER Action Group: <http://poweractiongroup.org>

Previous Community Updates include historical information. Updates published from May 2012 until the present are available upon request