Project Fact Sheet 3

Avionics Specialties, Incorporated Facility
Earlysville, VA

Summer 2016

Introduction

This third Project Fact Sheet on the Avionics Specialties, Incorporated (Avionics) Facility has been prepared to inform the community that since the issuance of the second Project Fact Sheet released in the summer 2014, TDY Industries, LLC (TDY) has made substantial progress and has completed additional phases of the RCRA Facility Investigation (RFI). From the information obtained, TDY has developed an Interim Measures Work Plan to evaluate various cleanup technologies to be considered in the Corrective Measures Study (CMS) for the Site.

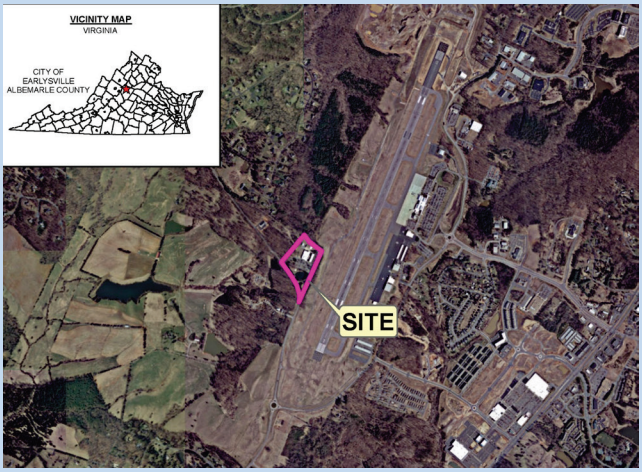

Figure 1 - Location Map

Work at the Site will continue to be completed under the oversight of the U.S. Environmental Protection Agency (U.S. EPA) and Virginia Department of Environmental Quality (VADEQ). The purpose of this Fact Sheet is to provide the community with information on the planned Interim Measures. The objective of planned Interim Measures is to reduce concentrations of volatile organic compounds (VOCs) present in some areas of soil and groundwater and to evaluate technologies that will be considered in the CMS. A fourth Fact Sheet will be prepared to present the findings of the recent RFI activities once approved by the U.S. EPA and VADEQ.

Site History

The Facility is located at 3367 Earlysville Road in Earlysville, Albemarle County, Virginia, on approximately 12 acres (Figure 1). The plant was erected in 1954 and was owned and operated by Teledyne, Inc. and then Teledyne Industries, Inc. from approximately 1966 to 1992. Teledyne Industries, Inc. sold the business and assets to Avionics Specialties, Inc. in 1993. Teledyne Industries, Inc. was a predecessor of TDY. Avionics Specialties, Inc. closed the plant in 2010 and it has remained inactive. Historically, the plant served as an aircraft instrumentation production facility.

Upcoming Interim Measures Activities

TDY plans to complete four Interim Measures activities at the Facility. All but one of the activities will occur in the northwest corner of the plant property (refer to Figure 2 for location). The first activity consists of evaluating a soil cleanup method using soil vapor extraction (SVE). SVE involves applying a vacuum to the impacted soil above the water table. A short duration pilot test will be performed to determine if VOC vapors can be effectively removed and recovered using this technology and whether the technology would be feasible as a future corrective measure.

The second activity will be to excavate the soils with the highest VOC concentrations. The areas to be excavated have been determined based on the laboratory sample results from approximately 40 soil borings. The excavated soil will be transported offsite for disposal at an appropriate licensed disposal facility. The area of excavation will be backfilled with imported clean soil; some of the excavated soil may also be re-used for backfill after laboratory testing confirms its acceptability.

The third activity will be to conduct a 1-year-long pilot study using bioremediation to destroy VOCs in shallow groundwater. Bioremediation in this case involves amending the groundwater with emulsified vegetable oil and nutrients which in turn enhance the microbial breakdown of chlorinated VOCs. The pilot study will target the areas of groundwater known to contain the highest levels of VOCs. This test will be monitored to gauge its effectiveness in reducing VOCs in groundwater.

Lastly, a new exploratory well will be installed in the vicinity where VOCs have been detected at a well previously used for potable water. The new well will draw water from a fracture zone believed to be unimpacted by VOCs. If multiple tests confirm that the new well produces water that is not affected by VOC contamination and is otherwise potable, consideration will be given to using this well as a replacement for the currently impacted well. The existing monitoring program of select residential wells will continue.

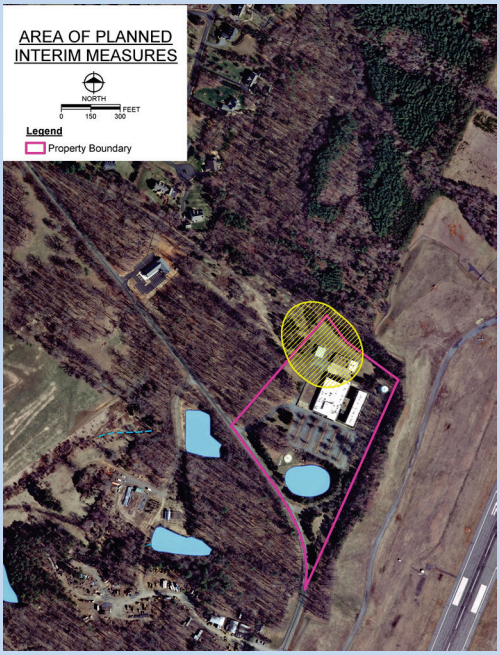

Figure 2 - Upcoming Interim Measures Area

What Can You Expect to See?

The Interim Measures will require the use of various heavy equipment, including drilling rigs, support trucks, front-end loaders, a backhoe, and trucks with haul trailers. During this time, you may see equipment and field personnel entering and exiting the former Avionics plant site. For the well replacement, a drill rig and support truck/equipment will be located at the property during the work.

When Will the Work be Performed?

The majority of the Interim Measures activities are anticipated to occur during summer-fall 2016. Periodic sampling of select groundwater monitoring wells will continue into early 2017.

How and When Will the Findings be Communicated?

TDY will communicate with the U.S. EPA and VADEQ on a regular basis throughout the Interim Measures process. Findings will also be presented to the community through the issuance of additional fact sheets. Final reports will be submitted to the U.S. EPA and VADEQ. Copies of all final approved submissions to the U.S. EPA and VADEQ will also be available for public review at the Jefferson-Madison Regional Library.

Please direct any questions about this project to either:

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Additional information can be found at the U.S. EPA's website for the Avionics Specialties, Incorporated Facility:
http://www3.epa.gov/reg3wcmd/ca/va/webpages/vad089027759.html