FACT SHEET

State Superfund Program

Receive Site Fact Sheets by *Email.* See "For More Information" to Learn How.

Site Name: Universal Instruments/Dover Electronics
DEC Site #: 704026
Address: Kirkwood Industrial Park
29 Industrial Park Road
Kirkwood, NY 13795

Have questions? See "Who to Contact" Below

Remedy Amendment Proposed for State Superfund Site; Public Comment Period and Public Meeting Announced

Public Meeting, Wednesday, 1/29/2014 at 2:00 PM
Town of Kirkwood Offices, 70 Crescent Drive, Kirkwood, NY 13795

NYSDEC invites you to a public meeting to discuss an amended remedy proposed for the site. You are encouraged to provide comments at the meeting, and during the 30-day comment period described in this fact sheet.

The public is invited to comment on a remedy amendment proposed by the New York State Department of Environmental Conservation (NYSDEC) related to the Universal Instruments/Dover Electronics site ("site") located at Kirkwood Industrial Park, Kirkwood, Broome County. Please see the map for the site location.

Documents related to the cleanup of this site can be found at the location(s) identified below under "Where to Find Information."

How to Comment
NYSDEC is accepting comments about the proposed plan for 30 days, from **January 21, 2014** through **February 21, 2014**. The proposed plan is available for review at the location(s) identified below under "Where to Find Information." Please submit comments to the NYSDEC project manager listed under Project Related Questions in the "Who to Contact" area below.

The site is listed as a Class "2" site in the State Registry of Inactive Hazardous Waste Sites (list of State Superfund sites). A Class 2 site represents a significant threat to public health or the environment; action is required.

Proposed Amended Remedy
A summary of the changes to the Original Record of Decision and previous Explanation of Significant Differences as proposed in this document are shown in the Table on the following page:

Nature and Extent of Contamination: The primary contaminant of concern at the site is tetrachloroethene (PCE). Over time, some of the PCE has undergone natural degradation which has resulted in the presence of similar contaminants such as trichloroethene (TCE) and dichloroethene (DCE) in the environment. Investigations indicate that some of the contamination present at the site has migrated in the groundwater from the site to a limited area located immediately southwest of the site (the surface of this area is currently covered by a parking lot). PCE, TCE, and 1,2-DCE exceedance established standards in subsurface soils, and groundwater.

After determining the site is not amenable to effective groundwater extraction as selected in the original ROD, two field pilot tests were conducted as part of an alternative groundwater remediation field study. The field tests consisted of an enhanced bioremediation field study and an in-situ chemical oxidation (ISCO) field pilot test. Enhanced biodegradation, the addition of chemicals to encourage biological breakdown of PCE, was found to have limited overall effectiveness, while ISCO, the injection of chemicals to breakdown the PCE, was shown to be much more effective in remediating the contaminants in groundwater. To further evaluate the ISCO in-situ alternative, three phases of ISCO field tests were conducted between 2005 and 2008. The results of the ISCO field tests indicated that sodium permanganate would be effective at reducing the concentration of contaminants in groundwater. As a result, a full-scale ISCO groundwater remedy using sodium permanganate was initiated in November 2011 and is currently being implemented.

The Department is therefore proposing an amendment to the site ROD in addition to a previous remedy amendment completed as an Explanation of Significant Differences (ESD) in 2003.

NYSDEC proposes the amended remedy after reviewing data from investigations, pilot studies, and routine monitoring submitted under New York's State Superfund Program by the responsible party.

Next Steps

NYSDEC will consider public comments as it finalizes the amended remedy for the site. The selected remedy will be described in a document called the "Amended Record of Decision" that will explain why the remedy was selected and respond to public comments. A detailed design of the selected remedy will then be prepared, and the cleanup will be performed.

NYSDEC will keep the public informed throughout the investigation and cleanup of the site.

Background

Location: The Dover Electronics site, also known as Universal Instruments/Dover Electronics, is located just south of exit 3 of Interstate Route 81, across Colesville Road, at 29 Industrial Park Road in the Town of Kirkwood, Broome County. The site property is approximately 9 1/2 acres in size and is located in an industrial/commercial area at the western end of the Kirkwood Industrial Park.

Site Features: The property consists of an industrial building and historically had areas outside and inside that stored drums and chemicals. The original building was constructed in 1973, and subsequent additions were built in 1978, 1982, and 1983.

The property is rectangular in shape and is oriented in a southwest-to-northeast direction. The site elevation ranges from approximately 860 to 926 feet above Mean Sea Level. The on-site building is located on a relatively flat area on the northeast side of the property. From the building to the southwest edge of the property (at Industrial Park Drive) the topography dips steeply; from Industrial Park Drive to the Susquehanna River, located approximately 2/3 of a mile southwest of the site, the topography is relatively flat.

Current Zoning and Land Use: The site is currently zoned for industrial development and is in use as a call center.

Past Use of the Site: Previous on-site circuit board manufacturing processes used tetrachloroethene (PCE) as a cleaning solvent. Originally, the virgin PCE was stored in 55-gallon drums at the former outer drum storage area. During the initial facility expansion, a ramp to the east-side overhead door served as the entry point for PCE drums. As production increased and the facility was again expanded, virgin PCE was stored in a 3,000-gallon aboveground storage tank. A 5,000-gallon "used PCE" aboveground flux storage tank was also on-site. A 10,000-gallon fuel oil tank was reportedly removed from the site in March 1992, and the aboveground PCE system was dismantled in March 1993. Reportedly, two 480-gallon PCE tanks were dismantled and removed from the building interior at that time. As a result of the historic handling and use of PCE, the presence of soil, storm water, and groundwater contamination has been documented at this site.

Operable Units: The site was previously divided into two operable units following the initial ROD; the site soils (OU1), and a groundwater plume (OU2). The remediation of the soil operable unit was conducted in the summer of 2003, and this operable unit is currently in the Site Management phase. OU2 was set up to administer the original groundwater remedy and enhanced bioremediation pilot; however, as there was no intention to issue a ROD for this OU, OU2 activities were terminated. Rather than continuing with OU2, interim remedial measure (IRM) elements for groundwater remediation were created under OU1. The groundwater remedy is being completed as an IRM element (OU1A).

Site Geology and Hydrogeology: The shallowest soils at the site consist of a brown, poorly sorted (contains various particle sizes), weathered, glacial till unit that ranges in thickness from approximately 10 to 25 feet. The weathered till layer contains a mixture of clays, silts, sands, gravels and cobbles. The weathered till is brown in color and is fractured/cracked. These fractures are poorly to moderately connected and act as pathways and/or pockets for water and contaminants.

The shallow groundwater underlying the site is flowing through two water-bearing units: a glacial till groundwater unit and a groundwater unit in the glacial sediments, located below the till. In both water-bearing units, groundwater flow is generally to the southwest. The water level in the till varies from approximately 40 feet below the ground surface at the northern portion of the site to 1 to 3 feet below the ground surface at the southeastern comer of the site. This is mainly due to ground surface elevation differences. The glacial till unit is believed to prevent groundwater from moving through it very easily.

The main regional aquifer in the area is the Five-Mile Point aquifer. The aquifer is in the general area of the site and is used as a potable water supply. However, the limit of the groundwater contamination on site and off site has been defined, and is not currently impacting the Five-Mile Point aquifer.

Additional site details, including environmental and health assessment summaries, are available on NYSDEC's website at:
http://www.dec.ny.gov/cfmx/extapps/derexternal/haz/details.cfm?pageid=3&progno=704026

State Superfund Program: New York's State Superfund Program (SSF) identifies and characterizes suspected inactive hazardous waste disposal sites. Sites that pose a significant threat to public health and/or the environment go through a process of investigation, evaluation, cleanup and monitoring.

NYSDEC attempts to identify parties responsible for site contamination and require cleanup before committing State funds.

For more information about the SSF, visit: http://www.dec.ny.gov/chemical/8439.html

FOR MORE INFORMATION

Where to Find Information

Project documents are available at the following location(s) to help the public stay informed.

Town of Kirkwood
Attn: Gayle Diffendorf
70 Crescent Drive
Kirkwood, NY 13795
phone: (607) 775-1966

Project documents are also available on the NYSDEC website at:
http://www.dec.ny.gov/chemical/37558.html

Who to Contact

Comments and questions are always welcome and should be directed as follows:

Project Related Questions
Ed Hampston
Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7017
518-402-9660
exhampst@gw.dec.state.ny.us

Site-Related Health Questions
Kristin Kulow
New York State Department of Health
Oneonta District Office
(607) 432-3911
kxk07@health.state.ny.us

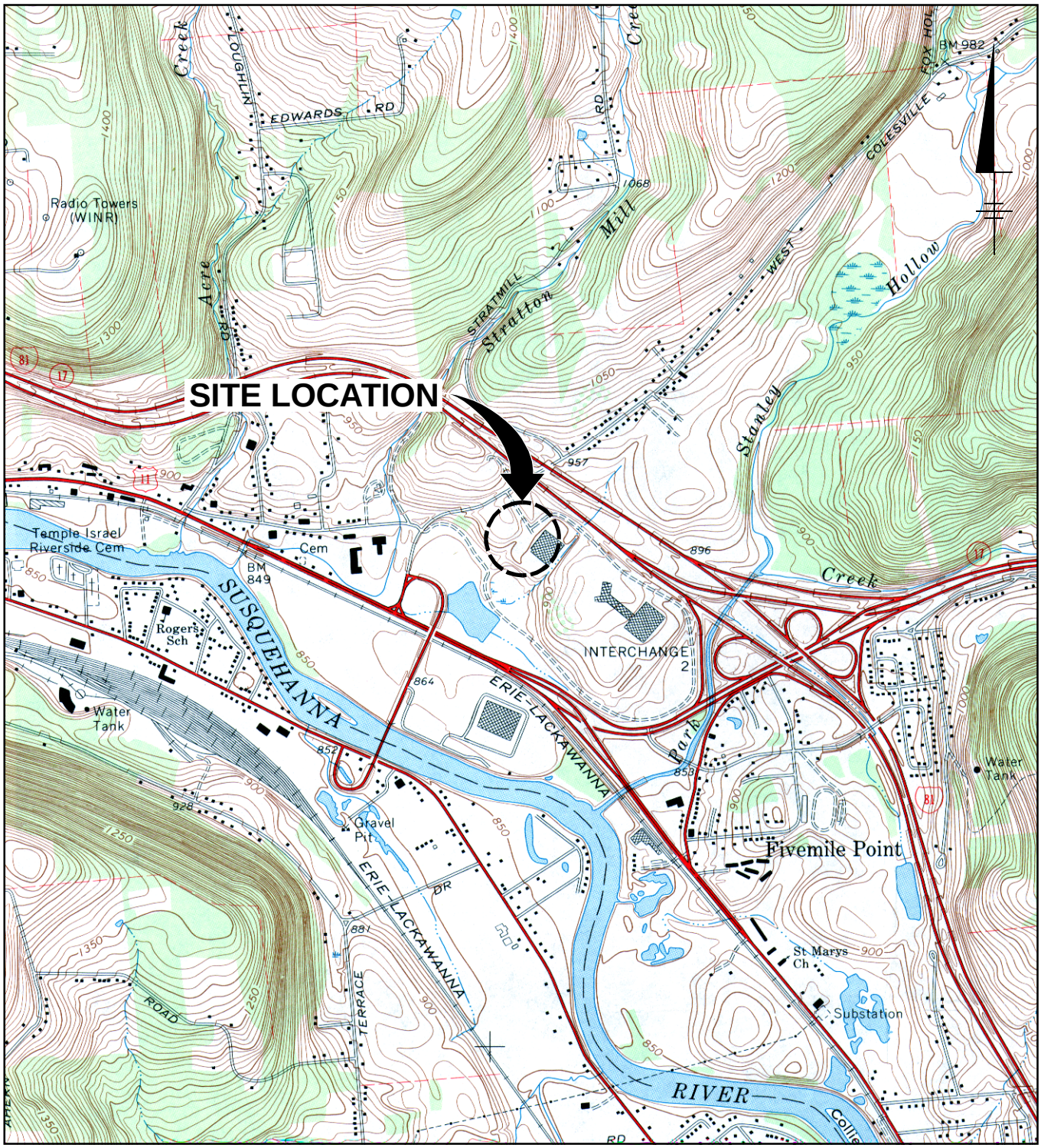
We encourage you to share this fact sheet with neighbors and tenants, and/or post this fact sheet in a prominent area of your building for others to see.

Receive Site Fact Sheets by Email

Have site information such as this fact sheet sent right to your email inbox. NYSDEC invites you to sign up with one or more contaminated sites county email listservs available at the following web page: http://www.dec.ny.gov/chemical/61092.html. It's quick, it's free, and it will help keep you *better informed.*

As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

Note: Please disregard if you already have signed up and received this fact sheet electronically.



REFERENCE: Base Map Source USGS 7.5 Minute Quad. Series Binghamton East, New York, 1968, Photorevised 1976.

2000' 0 2000'

Approximate Scale: 1" = 2000'

AREA LOCATION

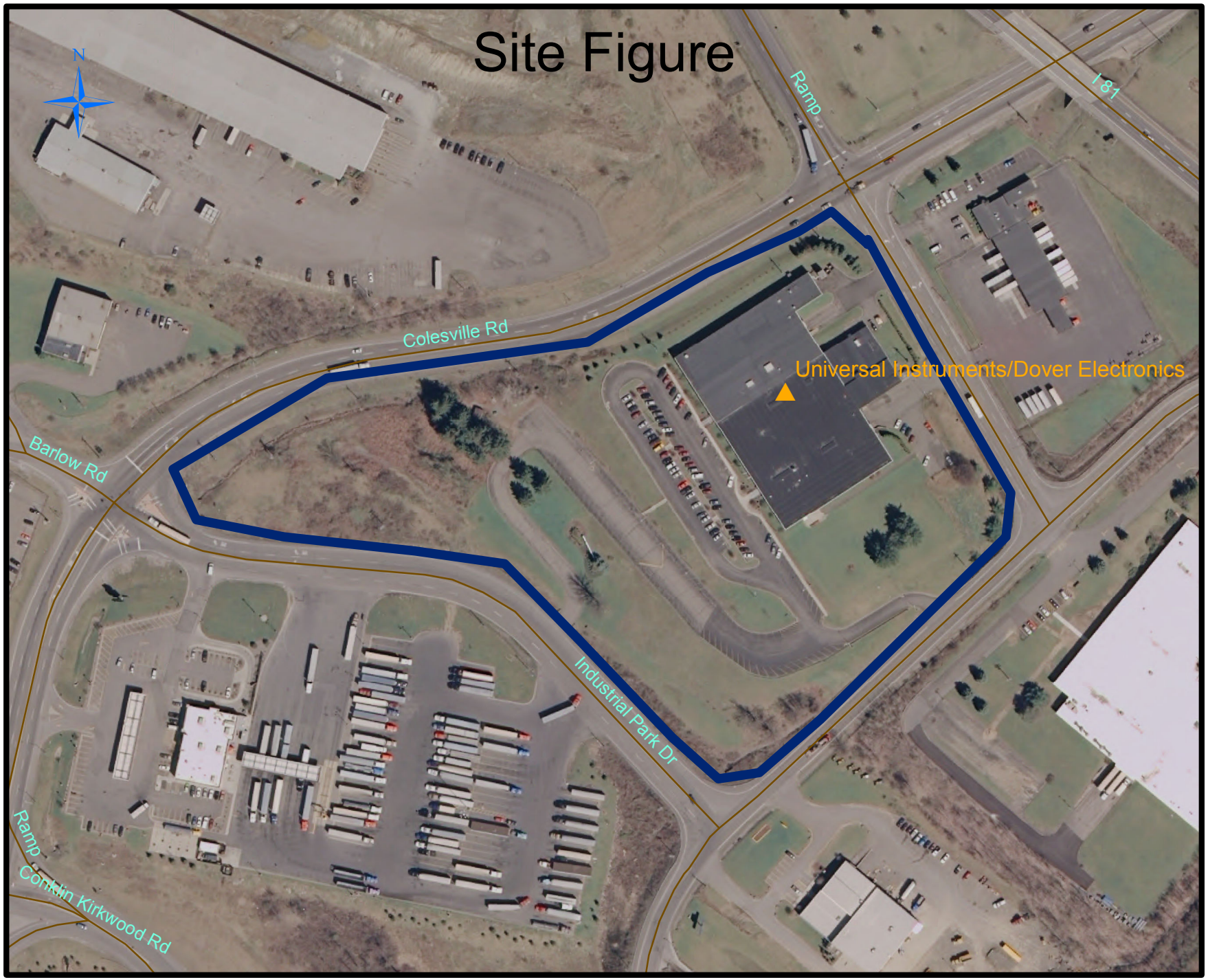
DOVER ELECTRONICS/UNIVERSAL INSTRUMENTS CORPORATION KIRKWOOD, NEW YORK

SITE LOCATION MAP

ARCADIS

FIGURE 1

2/26/08 CRA-85-TLF
00616/0001/00002/00616N01.CDR


Site Figure
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Ramp
I-81
Colesville Rd
Universal Instruments/Dover Electronics
Barlow Rd
Industrial Park Dr
Ramp
Conklin Kirkwood Rd