

Morris Bean

March 2009

Morris Bean & Co. operates an aluminum casting foundry at 777 East Hyde Road, near Yellow Springs, in Greene County, Ohio. Prior to 1991, the sand aluminum casting molds were coated with a blend of 1,1,1-trichloroethane (1,1,1-TCA) and graphite to provide a smooth interior surface, and to facilitate the removal of the castings.

Environmental investigations were initiated at Morris Bean's Yellow Springs facility in January 1990 in response to the detection of 1,1-dichloroethane (1,1-DCA), a degradation product of 1,1,1-TCA, in the village of Yellow Spring's well field. The facility is located approximately ½ mile north of the well field and is within the Yellow Springs wellhead protection area. Volatile organic compounds (VOCs) have also been detected in springs in the Glen Helen Nature Preserve, which is situated adjacent to and east of Morris Bean. VOCs that have been detected in ground water at the site include 1,1,1-TCA; 1,1-DCA; 1,1-dichloroethene; and 1,2-dichloroethene.

In 1994, the Ohio EPA and Morris Bean entered into an Administrative Order on Consent in which Morris Bean agreed to contain ground-water contamination on their property. Morris Bean started operating a ground water pump-and-treat system in March, 2000 that is designed to capture contaminated ground water before it migrates beyond the facility's eastern property boundary. The company began collecting data in August, 2002, to verify whether the pump-and-treat system was effective. In 2007, ground water at the property met cleanup standards. In December 2008, Ohio EPA approved Morris Bean's site closure plan which describes how ground water will be monitored to ensure that cleanup goals continue to be achieved. Morris Bean shut down the ground water pump-and-treat system in January, 2009, and will continue to monitor ground water until at least December 2010.

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