



KALAMAZOO COUNTY
HEALTH AND COMMUNITY SERVICES DEPARTMENT

Promoting Health For All

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Environmental Health

***Pneumo Abex LLC Groundwater Restricted Zone (GRZ)
Kalamazoo Township / City of Kalamazoo, Kalamazoo County, MI***

On April 16, 2012, Geosyntec Consultants (on behalf of Pneumo Abex LLC) submitted an application to establish a GRZ pursuant to the Kalamazoo County Sanitary Code. During their February 18, 2014 regular meeting, the Kalamazoo County Board of Commissioners approved the establishment of the GRZ downgradient of the Parker Hannifin Corporation Facility. In general, the GRZ is bounded by the Kalamazoo River to the north, Davis Creek to the east and northeast, Miller Road to the south, and Business I-94, Schuster Avenue, and Factory Street to the west. The GRZ affects approximately 398 properties within Kalamazoo Township and the City of Kalamazoo (see attached map). For a complete list of parcels impacted and a detailed legal description, refer to the [Kalamazoo County Sanitary Code](#).

Chlorinated solvents are present in soil and light non-aqueous phase liquid (LNAPL) beneath the Parker Facility at 2220 Palmer Avenue, Kalamazoo, Michigan. Parker acquired the Facility from Pneumo Abex LLC in 1996. Pneumo Abex used industrial oils, lubricants, and solvents (including chlorinated solvents that contain perchloroethene [PCE], 1,1,1-trichloroethane [TCA], and trichloroethene [TCE]) for their industrial operations. The following contaminants of concern (COC) are determined to have migrated off-site at concentrations that exceed the Michigan Department of Environmental Quality (MDEQ) Part 201 Generic Residential Drinking Water Clean-up Criteria: chloroethane (CA); 1,1-dichloroethane (1,1-DCA); 1,2-DCA; 1,1-dichloroethene (1,1-DCE); cis-1,2-DCE; TCA; TCE; and vinyl chloride (VC).

Pneumo Abex has conducted several soil and groundwater remediation activities at the Facility under the supervision and to the satisfaction of the MDEQ. The contaminant source abatement activities include soil excavations, LNAPL recovery, soil vapor extraction, enhanced in-situ bioremediation, and addition of backfill amendments for enhanced degradation of residual COCs.

The GRZ will serve as an institutional control until the remediation is completed. Groundwater within the GRZ cannot be used for human consumption until the COC concentrations are attenuated to levels that meet the applicable MDEQ Part 201 criteria. Based on the nature and extent of the groundwater impact and the number of affected properties, the MDEQ generally agrees that the most technically and economically feasible closure scenario would rely on the creation of a GRZ to **restrict water well installation** in the impacted area. The properties within the GRZ have been provided with municipal water service which is utilized throughout the zone. For more information, please contact Kalamazoo County Environmental Health at 269-373-5210.

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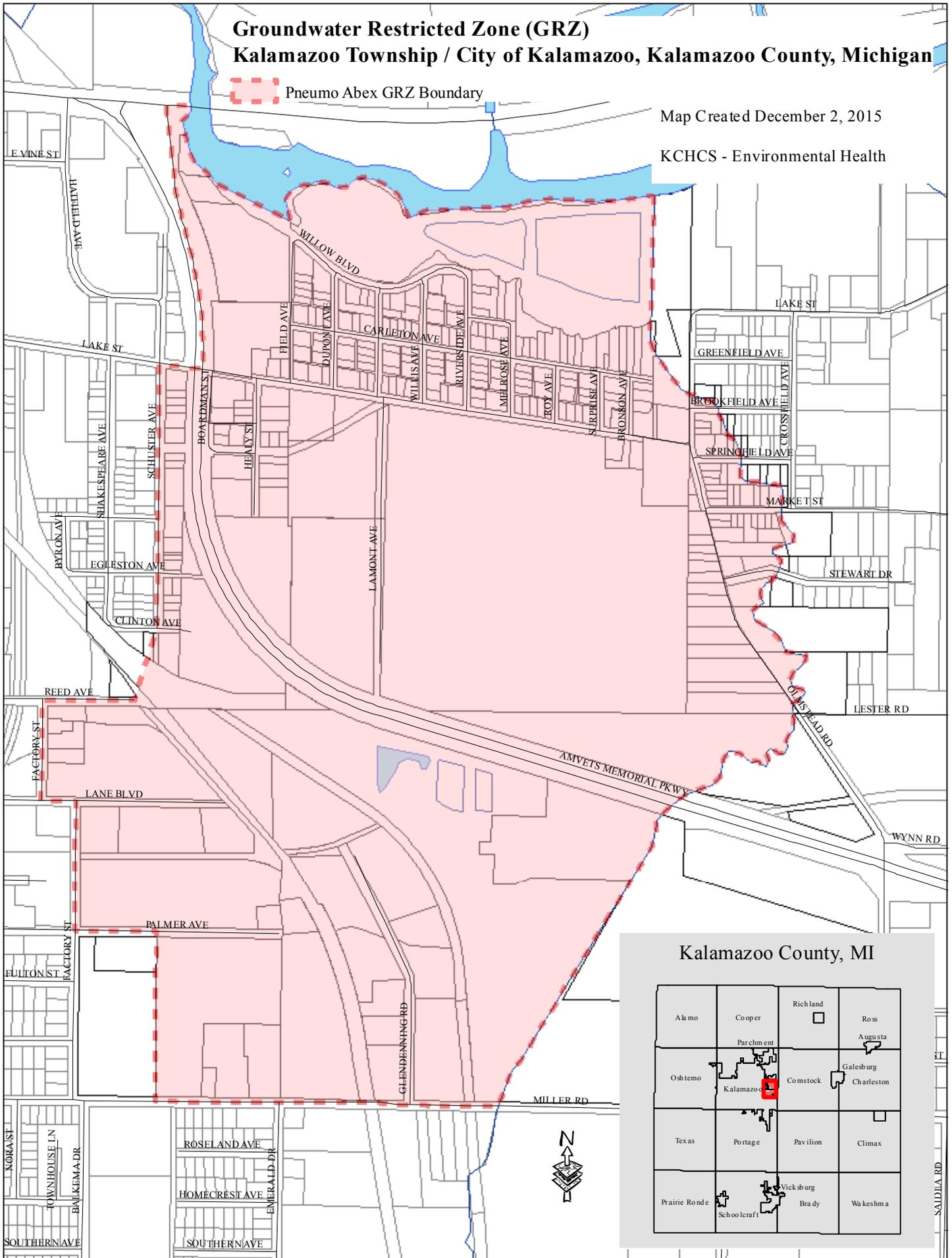


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 Pneumo Abex GRZ Boundary

Map Created December 2, 2015

KCHCS - Environmental Health



Kalamazoo County, MI

