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Sinkhole Mitigation Project: Wyomissing, Pennsylvania

Many of Whitestone's corporate clients lease properties and obtain "pad sites" that are developed as part of a larger overall development for which geotechnical engineering studies have been completed by others. Whitestone works with their clients as a consultant to assist with ensuring that the client's geotechnical and environmental interests are being protected.

At the Wyomissing, PA site, Whitestone's client decided to develop a "pad ready" outparcel in a larger retail development. A geotechnical exploration conducted by others found extremely soft limestone rock with frequent voids and caverns susceptible to sinkhole formation. To mitigate these conditions, the developer's geotechnical engineer had specified a subsurface proofdrilling and grouting program to fill voids and seal problematic caverns in order to enable safe building construction. Whitestone subsequently performed independent test explorations to determine if these recommended actions had been implemented. Project highlights are summarized below:



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- Whitestone's investigation of the "pad ready" site encountered caverns up to 23 feet wide below the restaurant that was already under construction.
- Whitestone reviewed the lease agreement and developer's geotechnical information and determined conditions had not been improved per the design engineer's requirements.
- A specialty grouting contractor was mobilized to remediate sinkhole conditions in a two-week period, enabling the restaurant to open safely and on schedule.
- Whitestone provided expert reports to assist the client in recouping costs associated with sinkhole mitigation from the developer.

Environmental Services

Negotiating the complexities of environmental regulations can be challenging and time consuming. Whitestone relies upon demonstrated experience and knowledge of local conditions and regulations to deliver solutions that are timely, practical and cost-effective.

[Click here to learn more about Whitestone's Environmental Services.](#)

Geotechnical Services

Design and construction of functional and cost-effective structures require a thorough understanding of local soil, rock and groundwater conditions. Whitestone provides a wide range of geotechnical services to support all phases of a project, from initial site evaluation through construction. [Click here to learn more about Whitestone's Geotechnical Services.](#)

Whitestone Associates, Inc. provides complete, integrated environmental and geotechnical engineering and consulting services to its client base of international and national corporations, law firms, real estate developers, lending institutions, insurance underwriters, government and municipal agencies, and private sector clients.

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