

# One Stop Sinkhole Remediation

Sinkholes usually form over a relatively long time but, once observed, there is an urgency to stabilize them due to safety and stability concerns. Having an experienced contractor that you can rely upon to effectively stabilize the sinkhole is critical.

CGC Geoservices, LLC (CGCG) has **both** the engineering experience and construction capability to understand the various causes of sinkholes. We use this experience to quickly, safely and cost effectively stabilize sinkholes for you. We have extensive experience and a full

range of excavation and grouting equipment at your disposal.



## What Causes Sinkholes

Sinkhole formations can be naturally occurring or the result of human activities. Diagnosing the cause is important to correctly stabilize the sinkhole area.

Naturally occurring sinkholes result from physical and chemical weathering of some types of bedrock. These sinkholes are often formed in areas where stormwater or groundwater concentrates.

Sinkholes can also form as the result of construction, mining or blasting activities, excessive ground water pumping and underground erosion around underground utilities.

Usually, sinkholes start to form underground and eventually are noticed when a surface depression appears above a collapsed void in the ground. A small surface hole may not be indicative of the hidden problem. With time, potentially large and unsafe cavities will develop.

## Stormwater Management Ponds

Current Best Management Practice (BMP) techniques advocated by government regulations for the design of stormwater facilities sometimes conflict with the site's geology.

Existing stormwater management control facilities that have experienced regular problems with sinkholes may be retrofitted in order to reduce the frequency and severity of, or possibly eliminate additional sinkholes.



## How Can They Be Fixed?

An engineered solution at the source of the problem is needed first so that the sinkhole doesn't get bigger. Stabilization is often required followed by backfilling, which can take many forms. A rapid and appropriate response is often critical to ensure safety of people and property. Our team has extensive experience with various products and design and construction methodologies including:

- Geosynthetic drains
- Lining systems
- Structural underpinning of foundations
- Impervious hydraulic asphalt pavement
- Porous pavement
- Reverse graded rock filters
- Grouting
- Erosion and sedimentation control



## Why Contact CGCG?

- Experience – Our team of engineers and geologists has extensive experience evaluating and stabilizing sinkholes.
- One-stop shop – In addition to engineers and geologists to evaluate and design a fix, we have internal grouting, excavation and backfill capabilities.
- Quick response – We eliminate redundancy between the evaluation and stabilization phases, often stabilizing the sinkhole concurrently with our evaluation.
- Cost effective – We cut out the middleman.
- 3 Offices to serve you - Wilmington, DE, and Carlisle and Philadelphia, PA,



## Office Locations

Offices are located in Wilmington, DE, and Carlisle and Philadelphia, PA, so that we can efficiently service projects throughout the region.

### Delaware

P.O. Box 1675  
Hockessin, DE 19707  
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### Pennsylvania

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### Pennsylvania

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