



G2's environmental services provide cost-effective LUST remediation



The Park District of Forest Park, Ill., recently called on G2 Consulting Group to help clean up contaminated soils discovered in a renovation of its historic main administration building.

During construction of an addition to the nearly 70-year-old building, contractors found and removed an abandoned heating oil tank, and realized that some of the tank's contents had released into surrounding soils.

Environmental consultants from G2's Chicagoland office were called in to recommend a remediation program and observe compliance with the remediation. G2 also provided the detailed documentation required to remove the site from the Illinois Environmental Protection Agency's (IEPA) Leaking Underground Storage Tank (LUST) program.

A thorough analysis by G2 determined that the most cost-effective solution involved removing the impacted soils from the site for safe disposal within an approved landfill. A G2 environmental scientist was on site to observe the removal of approximately 150 cubic yards of contaminated soils and to get representative soil samples for analytical

testing. G2 worked closely with the excavation contractor and the property owner's representative while the contaminated soils were removed to insure compliance with remediation program requirements.

Once the impacted soil was removed, G2 filed the appropriate 20-day certification and 45-day report for the site with IEPA. After a thorough review, IEPA issued a No Further Remediation letter – bringing the LUST incident to a successful close and allowing the renovation to finish as quickly as possible.



G2 Dirt



Jason Stoops, P.E., a project manager in G2's Troy office, was named Outstanding Young Civil Engineer of the Year by the Southeastern Michigan Branch of the American Society of Civil Engineers. Jason was

recognized for his role serving as the group's legislative affairs chair, lobbying efforts in Washington, D.C. on behalf of the civil engineering community and work on the ITC Headquarters project in Novi, Mich.

Jason Stoops was also recently appointed to the American Society of Civil Engineers (ASCE) Geo-Institute Geo-Legislative Committee.



Jennifer Casey, P.E., a project engineer in G2's geotechnical engineering group, received a Master of Civil Engineering degree with an emphasis in geotechnical engineering from Lawrence Technological University.

G2's construction engineering services group hired five summer interns:

Ken Schaub, who recently earned his bachelor's degree in civil engineering from the University of Detroit Mercy and will begin work on a master's degree in geotechnical engineering in the fall; **Alan Scott**, who recently earned his bachelor's degree in civil engineering from the University of Detroit Mercy; **Jeff Terenzi**, who enters his senior year majoring in civil engineering at the University of Michigan in the fall; **Michelle Abro**, who enters her senior year majoring in civil engineering at the University of Michigan in the fall; and **Jake Miller**, who will enter his senior year at Michigan Technological University studying civil engineering this fall.

MDOT awards G2 three-year contract to provide as-needed services

The Michigan Department of Transportation (MDOT) awarded a three-year "indefinite delivery of services" (IDS) contract to G2 Consulting Group.

The IDS contract allows MDOT staff to call on G2 to provide engineering services for Michigan highway and road projects on an as-needed basis from Jan. 1, 2009, through Dec. 31, 2012, in an amount not to exceed \$4 million over the contract's duration.

The contract covers services that MDOT previously prequalified G2 to deliver, including:

- Asbestos investigations
- Aggregate inspection and testing
- Bituminous pavement inspection
- Density testing and inspection
- Engineering assistance
- Geotechnical engineering services
- Portland cement concrete inspection & testing
- Site investigation

G2 The Geo-logical Choice

We're proud to announce the following new projects!

Client: Nationwide Construction
Projects: Cable barriers for more than 100 miles of Indiana highways – geotechnical design services

Client: Future Fence Company
Projects: Cable barriers for 30 miles of I-94 and US-131 in Allegan and Kalamazoo counties and 25 miles on I-69 in Shiawassee County, MI – geotechnical design services

Client: Walter Toebbe Construction Company
Project: I-94 over Norfolk Southern Railroad and Portage Creek, Kalamazoo County, MI – geotechnical design services and vibration monitoring services

Client: George Auch Construction Company
Project: Oakland Community College Building, Southfield, MI – construction engineering services

Client: Anderson, Eckstein, & Westrick, Inc.
Project: Martin Road reconstruction, St. Clair Shores, MI – construction engineering services

Client: Kirko/Manix Company
Project: Havenwyck Hospital, Auburn Hills, MI – construction engineering services

Client: C & S Engineers, Inc. and Andrew Systems
Project: Rescue 21 communication sites for U.S. Coast Guard – geotechnical and construction engineering services

Client: RSP Architects
Project: Joliet Army Reserve Center, Joliet, IL – geotechnical engineering services

Client: Clearwire
Project: Chicago market telecommunication sites, IL – environmental consulting services

Client: Kent Power
Project: Decatur wind turbine, Decatur, IL – construction engineering services

Client: Saginaw County Road Commission
Project: Sharon Road slope stabilization, Chesaning, MI – geotechnical engineering and design services

Client: TetraTech, Inc. and City of Brighton
Project: Mill Pond bypass sewer, Brighton, MI – geotechnical and construction engineering services

Client: Rowe Professional Services Company and Road Commission of Macomb County
Project: Moravian Drive bridge over Clinton River, Clinton Twp., MI – geotechnical engineering services

Client: Fishbeck, Thompson, Carr & Huber, Inc.
Project: Cranbrook Road pedestrian tunnel rehabilitation, Bloomfield Hills, MI – geotechnical and construction materials engineering services

Client: Monument Engineering Group Associates, LLC
Project: Battle Creek VA Medical Center concrete repairs, Battle Creek, MI – construction engineering services

Soft blue clay no match for G2's foundation design

An extensive foundation designed by G2 Consulting Group made it possible to build the 160,000-square-foot Shelby Macomb Medical Mall on a highly visible site with soft blue clay soils in Shelby Township, Mich.

The less-than-ideal soils required a deeper, sturdier building foundation system than normal for the building, which is three stories tall with a full basement. G2 designed a foundation that used 325 auger-cast piles extending 20 feet below the basement – at least 18 feet deeper than a typical foundation for this kind of structure, said Mark Smolinski, G2 founding principal.

“A standard foundation for a building like this would extend around one to two feet below the foundation in more stable soils,” Smolinski explains.

The 24-inch diameter piles were created by drilling holes down to the hardpan – very dense soils above the bedrock – and pumping grout into each hole as the drilling auger was pulled out. Spaced about six feet apart, these auger-cast piles are topped with pile caps, which support the grade beams of concrete reinforced with steel bars. The grade beams form a grid on which the basement was built.

G2 also provided geotechnical and construction engineering services for the building, located at the corner of 23 Mile and Schoenherr roads. French Associates, Inc., of Rochester is the architect and Frank Rewold and Son, Inc., of Rochester is the construction manager.

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