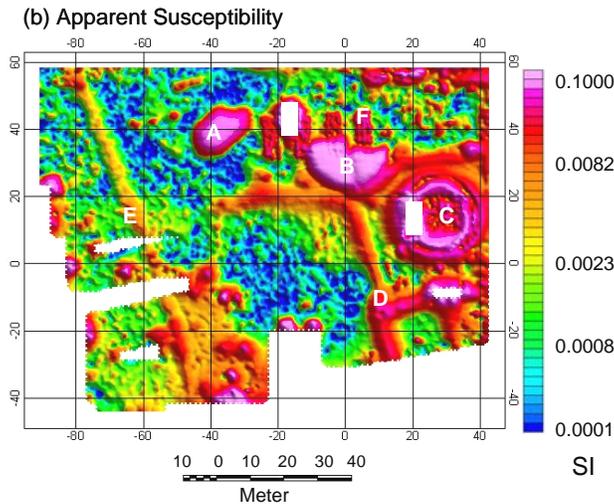
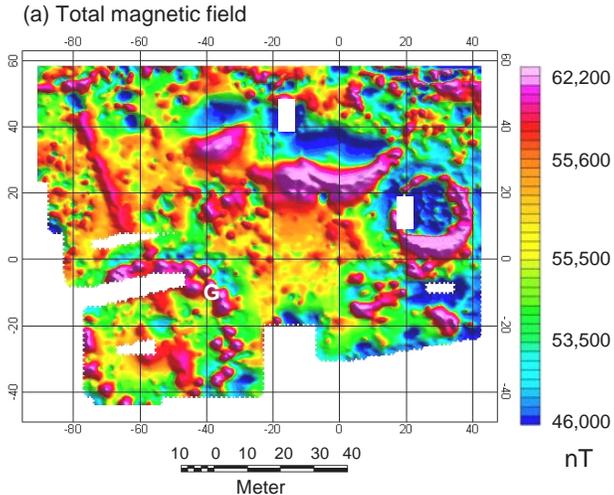


# Near-Surface Geophysics: Environmental, Engineering, Hydrogeology, and Mining Applications

Many innovative geophysical technologies once used exclusively for petroleum & mineral exploration can have broader use and be adapted for engineering, environmental, hydrogeology, & mining applications.



The two figures on the left (Won and Huang, 2004) show images of a decommissioned gas plant based on measurements from magnetometer (top) and electromagnetic (bottom) instruments. The industrial site had been previously remediated, yet residual signatures of old structures and a buried pipeline still existed. Comparing the two geophysical methods, the modern electromagnetic method yields a much better image of the subsurface, which can be then used to address latent remediation issues.



LM Gochioco and Associates have significant training and field experience in acquiring and processing high-quality geophysical data safely and efficiently. Advanced computer hardware and algorithms are used to process various data sets accurately and expeditiously.

Depending on your specific challenges, LM Gochioco & Associates Inc. can design the most appropriate geophysics program that will address your near-surface problems. We possess diverse experience and expertise in all near-surface geophysical technologies: high-resolution seismic, magnetometer, electromagnetics, ground-probing radar, ground conductivity and electrical resistivity.

Private and public companies, as well as federal, state, and local agencies are experiencing the gradual deployment of geophysics to address broad based problems from law enforcement to UXO detection.

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*The founder, Lawrence M. Gochioco, P.G., has over 15 years of diverse near-surface geophysics experience. He has published over 25 technical papers and feature articles in various journals & magazines, and is an editor of his professional society (SEG). The company provides a wide spectrum of near-surface geophysics services and consulting.*

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