GUIDELINEGEO

GUIDELINE GEO

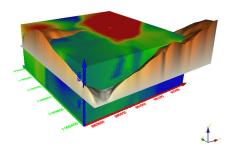
ABEM WalkTEM

CASE – Mapping of water areas with high salt concentration

The target was to measure resistivity values indicating the presence of salt deposits or areas containing water with high salt concentration, and could serve as indicator for the geological characterization of the area. The location in a mountainous area of Colombia, made the use of conventional methods such as VES inapplicable.

SOLUTION

TEM (Transient Electromagnetics) can be effectively used in areas with irregular relief. The ABEM WalkTEM data quality is also well suited for high accuracy detection of areas with a high concentration of salt deposits.



RESULTS

ABEMIMALÂ

The results of the survey were consistent with previously recorded knowledge of the sites' geology, concluding the presence of salt deposits as well as water with high salt concentration. The data was further analyzed and visualized in a 3D model showing the location and dispersion of salt deposits.

World Leading Brands

"There are major benefits of using the WalkTEM on such surveys and its flexibility and speed allowed us to perform measurements at up to 10 sites a day in mountain terrain".

Diego Alejandro González Botero, Geologist, Tropical Ingeniería y Consultoría

USER

Tropical Ingenería provides professional services in consulting, engineering and auditing, to customers within mining, oil, and infrastructure.

CONFIGURATION

Sensor: ABEM WalkTEM, 40x40 m transmitter loop, RC-5 and RC-200

Software: ViewTEM



Guideline Geo is a world-leader in geophysics and geo-technology offering sensors, software, services and support necessary to map and visualize the subsurface. Guideline Geo operates in four international market areas: Infrastructure – examination at start-up and maintenance of infrastructure, Environment – survey of environmental risks and geological hazards, Water – mapping and survey of water supplies and Minerals – efficient exploration. Our offices and regional partners serve clients in 121 countries. The Guideline Geo AB share (GGEO) is listed on NGM Equity.

GUIDELINEGEO

GUIDELINE GEO Löfströms Allé 6A

SE -172 66 Sundbyberg, Sweden Tel: +46 8 557 613 00 E-mail: sales.guidelinegeo.com www.guidelinegeo.com

MALÅ GEOSCIENC

Skolgatan 11 Map SE – 930 70 Malå, Sweden Tel: +46 953 345 50 E-mail: sales.guidelinegeo.com www.guidelinegeo.com

BEM INSTRUMENT

Löfströms Allé 6A SE -172 66 Sundbyberg, Sweden Tel: +46 8 564 883 00 E-mail: sales.guidelinegeo.com www.guidelinegeo.com

MALÅ GEOSCIENCE USA

465 Deanna Lane Charleston, 29492, USA Tel: +1 843 852 5021 E-mail: sales.guidelinegeo.com www.guidelinegeo.com