

SURVEY DETAILS

Survey Equipment

Helicopter	: Robinson R44 Raven 1 - LKB
Magnetometer	: Geometrics G822A split beam Cesium Vapour.
Counter	: Geosolutions proprietary Larmor frequency counter.
Navigation system	: Geosolutions Pilot Guidance using Novatel single frequency GPS receiver with height from Bushnell Laser ranger.
Base Magnetometers	: Two (2) Geosolutions proton magnetometers.
Base GPS	: Novatel dual frequency GPS receiver.

Survey Specifications

Flying Height	: 100 feet (30 metres) depending upon terrain.
Line Direction	: North / South 2010 surveys. Some East / West – 2008.
Line Spacing	: 50 metres / 100 metres.
Survey Speed	: 85 Knots - Indicated Air Speed.
Sample Interval	: 25 per Second - approx 1.5 metres across ground.

Survey Resolutions

Airborne Magnetometer	: Better than 0.01 nanoTesla.
Base Magnetometer	: Better than 0.1 nanaTesla sampled at 10 second intervals.
Laser Altimeter	: 10 centimetre resolution sampled 80 times per second.
Differential GPS	: +/- 1 metre in XYZ processed using C/A code only.

Data Processing

Magnetometer Data	: Geosolutions proprietary airborne geophysical survey data processing package.
Navigation Data	: Geosolutions proprietary airborne geophysical survey data processing package.
Differential GPS	: Combination of Novatel SoftSurv and Waypoint Consulting GrafNav.
Filtering and Levelling	: No filtering. Microlevelling applied.

