

Sound and Innovative Mineral Exploitation
Geophysics Options - Alluvials

Sub Bottom Profiling (SBP)

In 2008, MinEx acquired a sub bottom profiling device and system at around \$70,000 for work on rivers in Sierra Leone. The initiative was something of an experiment but was necessary as dredge targets needed to be identified. The machine proved an excellent investment.



Since then, there have been vast advances in software and hardware and the ‘tow-fish’ is no larger than the size of your arm and data can be collected on a smart phone.

The Technique produces excellent readable graphics detailing alluvial sub bottom features when combined with MinEx’s RAP raw data processing systems. MinEx have started to produce three dimensional images for dredging applications.

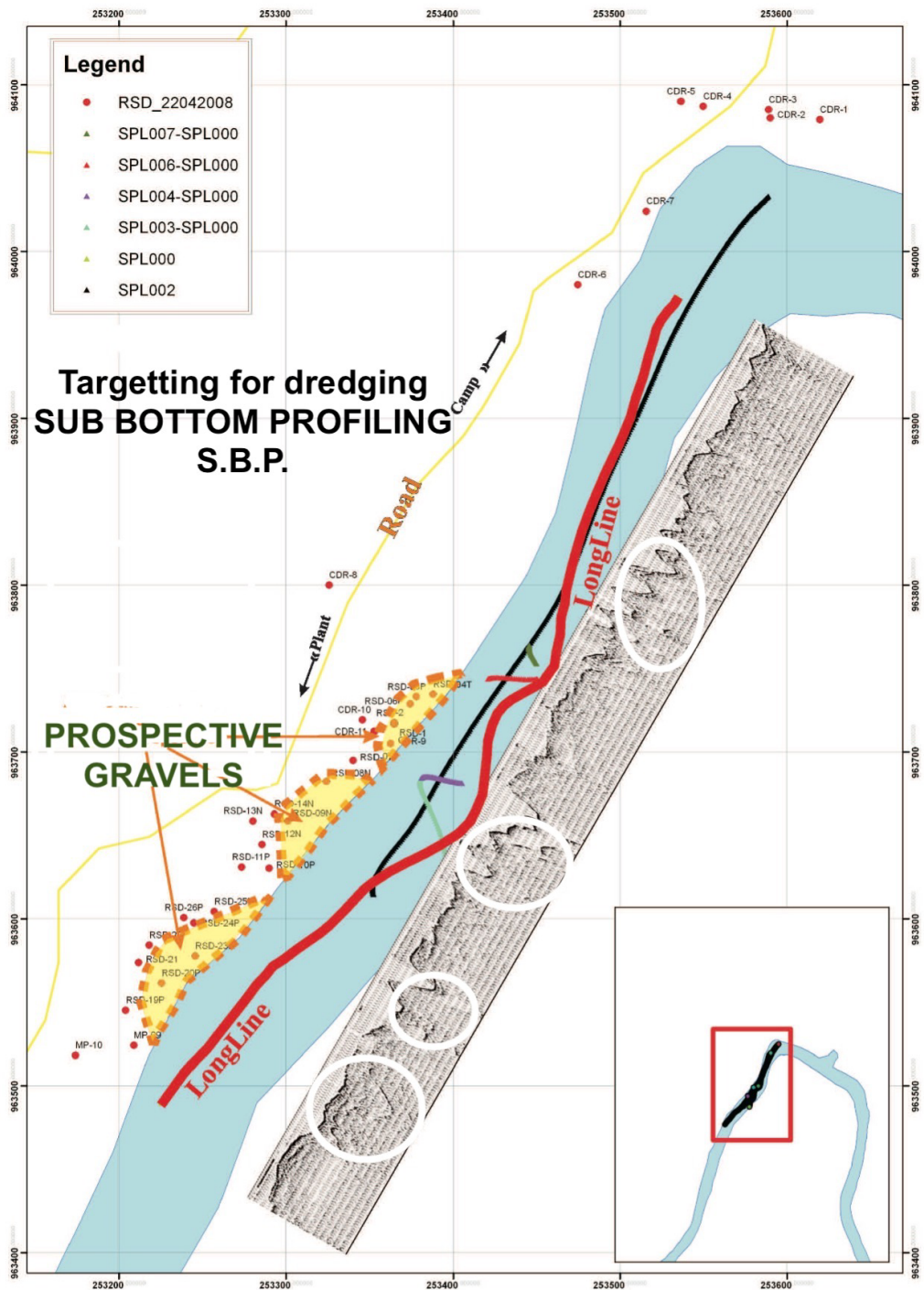
The device is ideally suited for use in rivers, lakes, ponds, shoreline, sea, with applications up to 300m maximum depth. The device is a highly portable system that is used from small 2-4 man boats and produces high image quality which is clearly readable by the non-technical man.

The system operates at 2-16 kHz and provides greater penetration than other machines.

The following is an example of a profile MinEx have produced by SBP, which can be easily analyzed.

Sierra Leone results

The plan view and river shape give no indication of sub bottom features, BUT there are at least three major depressions visible.



Personnel

Geophysics is only as good as the team of individuals using the equipment.

MinEx have years of experience in setting up and executing these projects in various difficult countries and understand well the logistics, requirements and equipment.