



# HUNTER GEOPHYSICS

*Specialists in shallow sub-surface geophysics*

PO Box 1445, Central Park, Victoria 3145  
Ph.: (03) 9913 2259 or Mob.: 0488 501 261

david.hunter@huntergeophysics.com  
www.huntergeophysics.com

## DATA PROCESSING SERVICE

In addition to performing geophysical surveys, Hunter Geophysics can process data provided by third parties. We are also able to interpret processed data and provide written reports and GIS/CAD-compatible files based on our interpretation of the processed data.

**Supported data includes...**  
**GROUND PENETRATING RADAR**  
**MAGNETOMETRY**  
**ELECTRICAL RESISTIVITY**  
**ELECTROMAGNETICS**  
**TOPOGRAPHY**  
**TOTAL STATION/GPS MAPPING DATA**  
**...and more!**

The following images show the power of our ground-penetrating radar data processing service. All you have to do is send us the data and we'll take care of the rest for you. This data was collected in a cemetery in Australia by Hunter Geophysics.

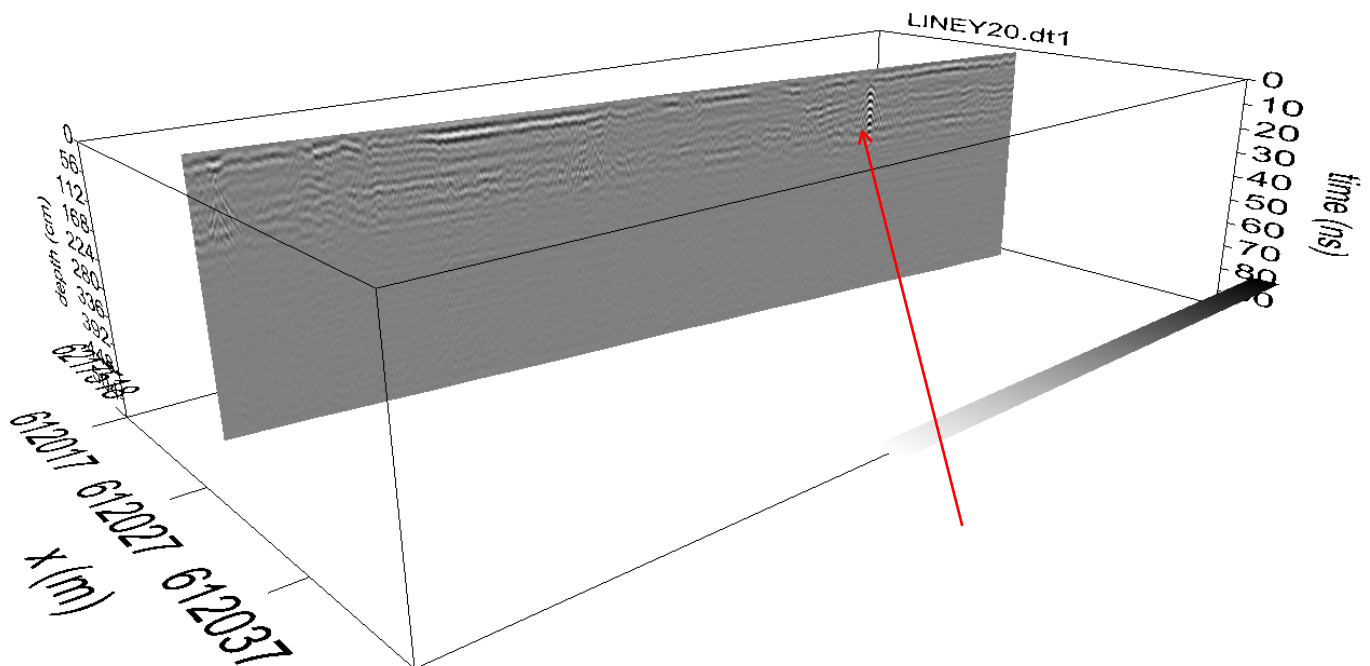


Figure 1: a radargram showing a reflection from a buried pipe.

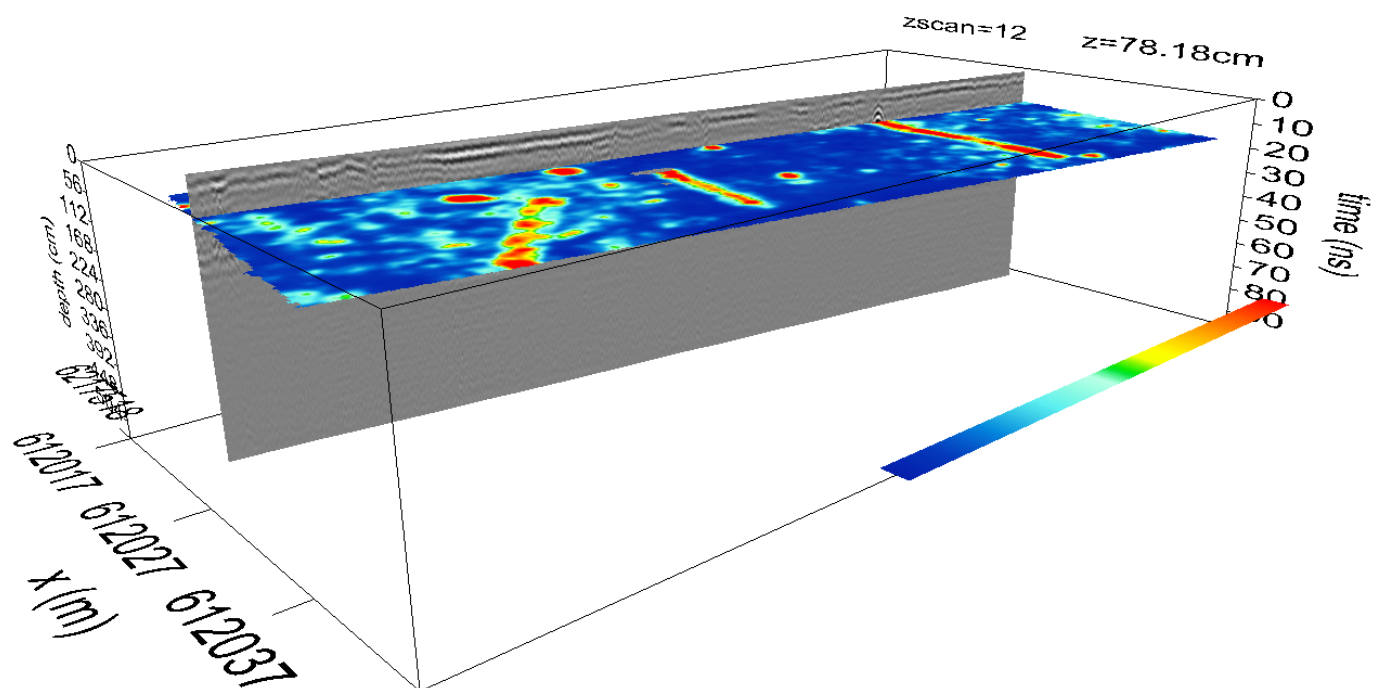


Figure 2: a depth slice shows the extent of the buried pipe across the survey area, as well as several other buried features.

## VERY FAST TURN-AROUND

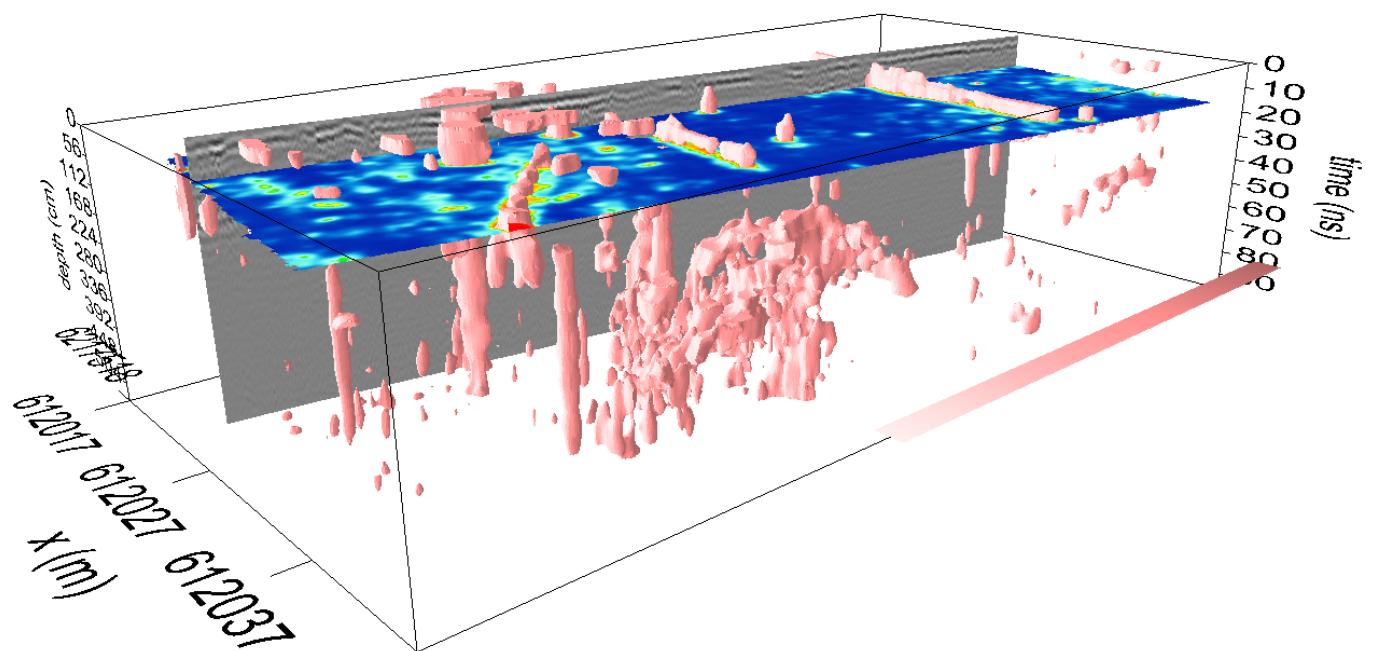


Figure 3: three-dimensional “isosurfaces” help visualise the approximate shape of buried objects.

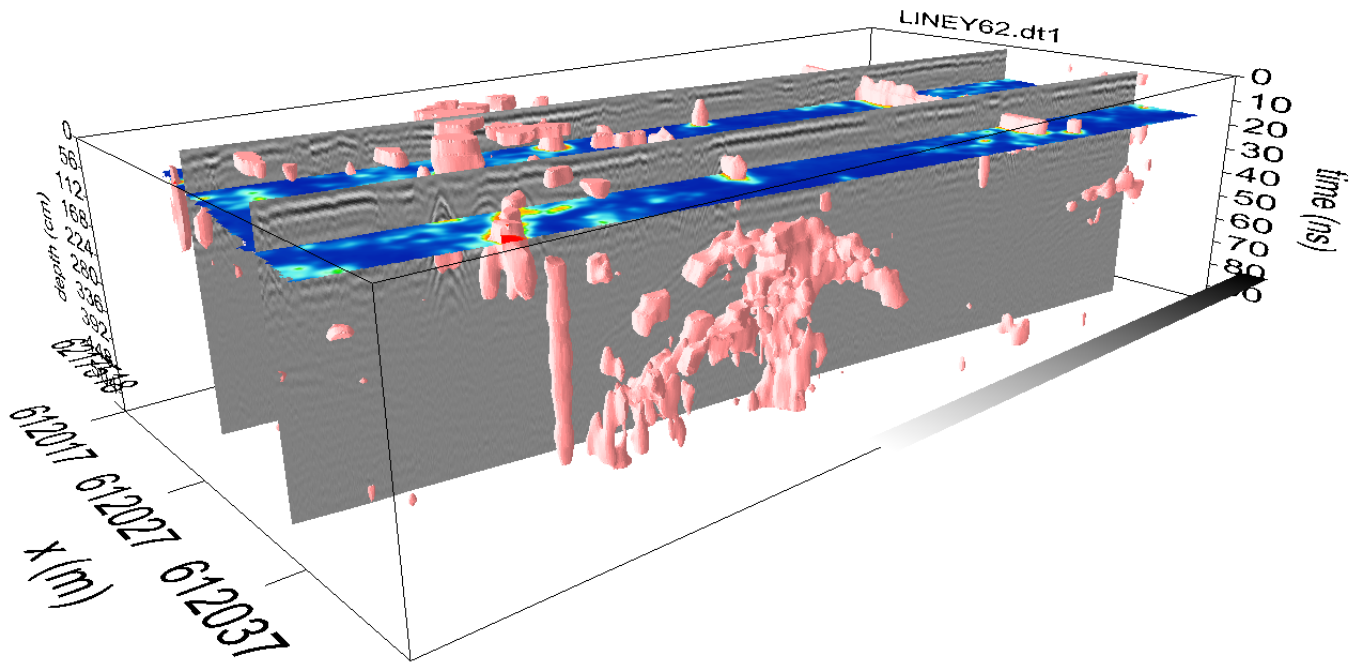


Figure 4: viewing two radargrams as well as the depth slice aids data interpretation.

## HIGH-PRECISION RESULTS

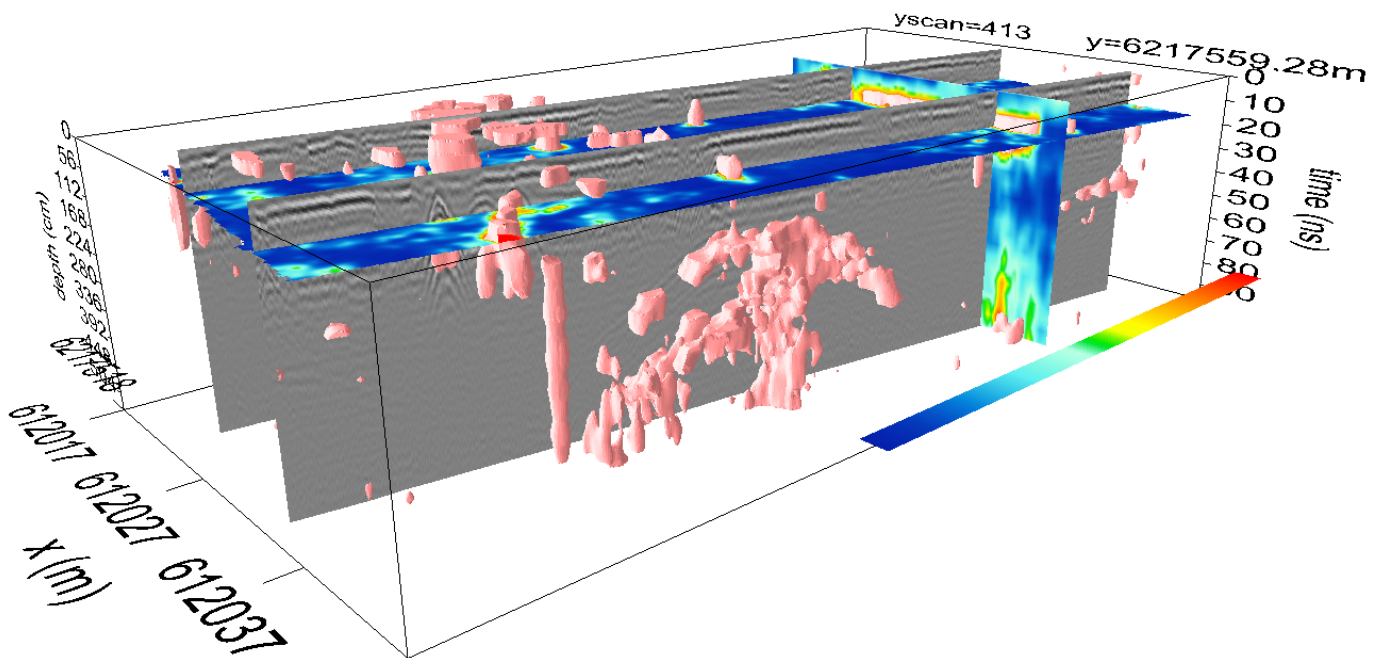


Figure 5: a Y-slice provides a cross-sectional view of the buried pipe.

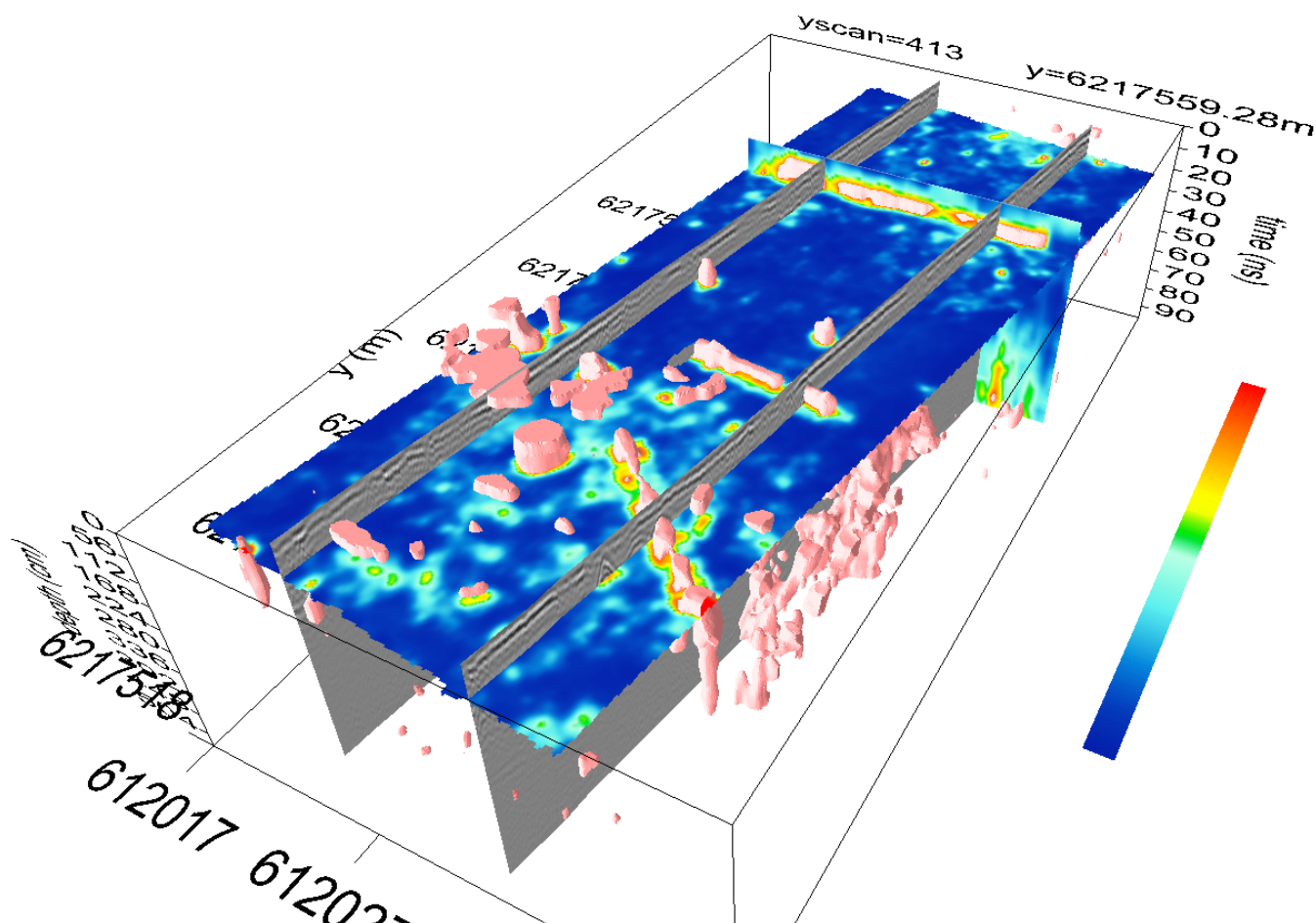


Figure 6: looking at the data cube from above.

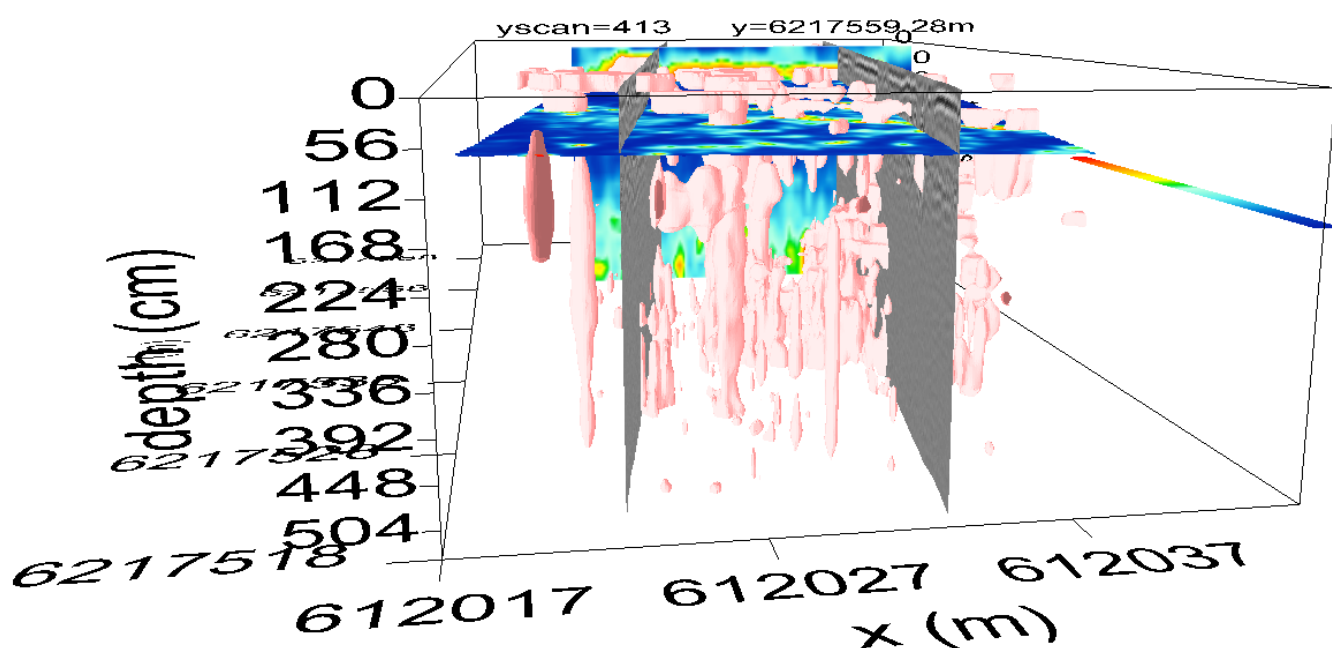


Figure 7: viewing the isosurfaces from side-on enhances data interpretation. Features beginning at the ground surface (i.e. at the top of the diagram) are more likely to have been caused by human activity (because you start digging a hole from the surface, of course), whereas features beginning at depth are more likely to be geological in nature.



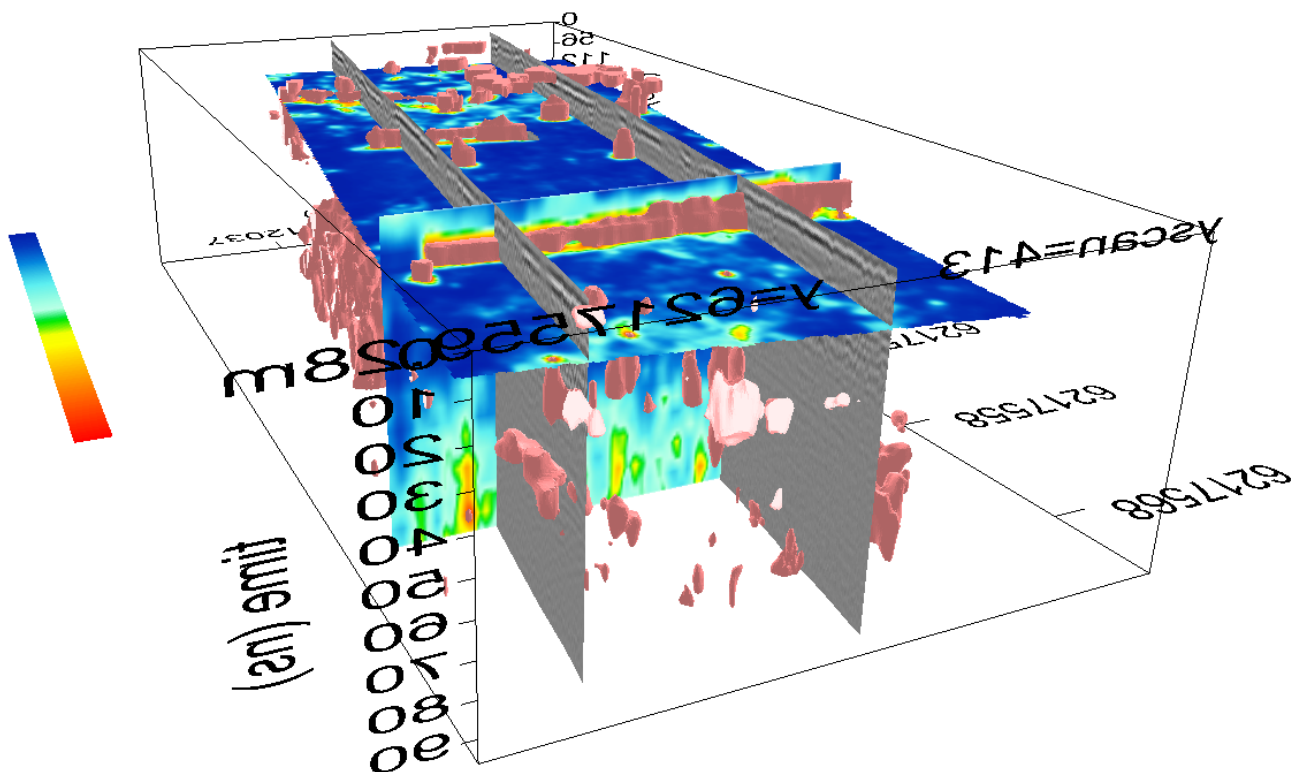


Figure 8: a view of the pipe from the north. The lighter blue shown in the Y-slice above the pipe itself is the backfill within the trench that was dug when the pipe was laid.

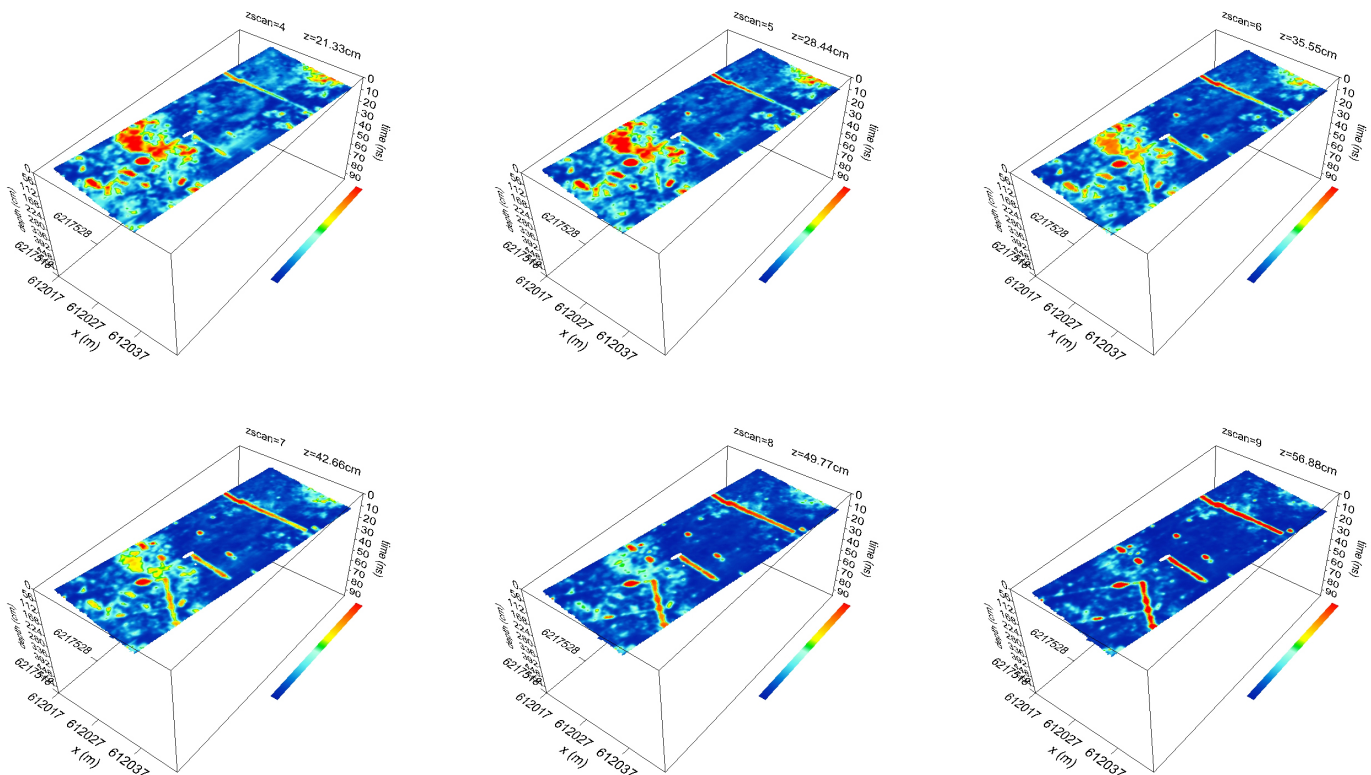


Figure 9: examining depth slices at varying depths. Depths below ground surface from left to right, upper line: 21.33cm, 28.44cm, 35.55cm; lower line: 42.66cm, 49.77cm, 56.88cm.

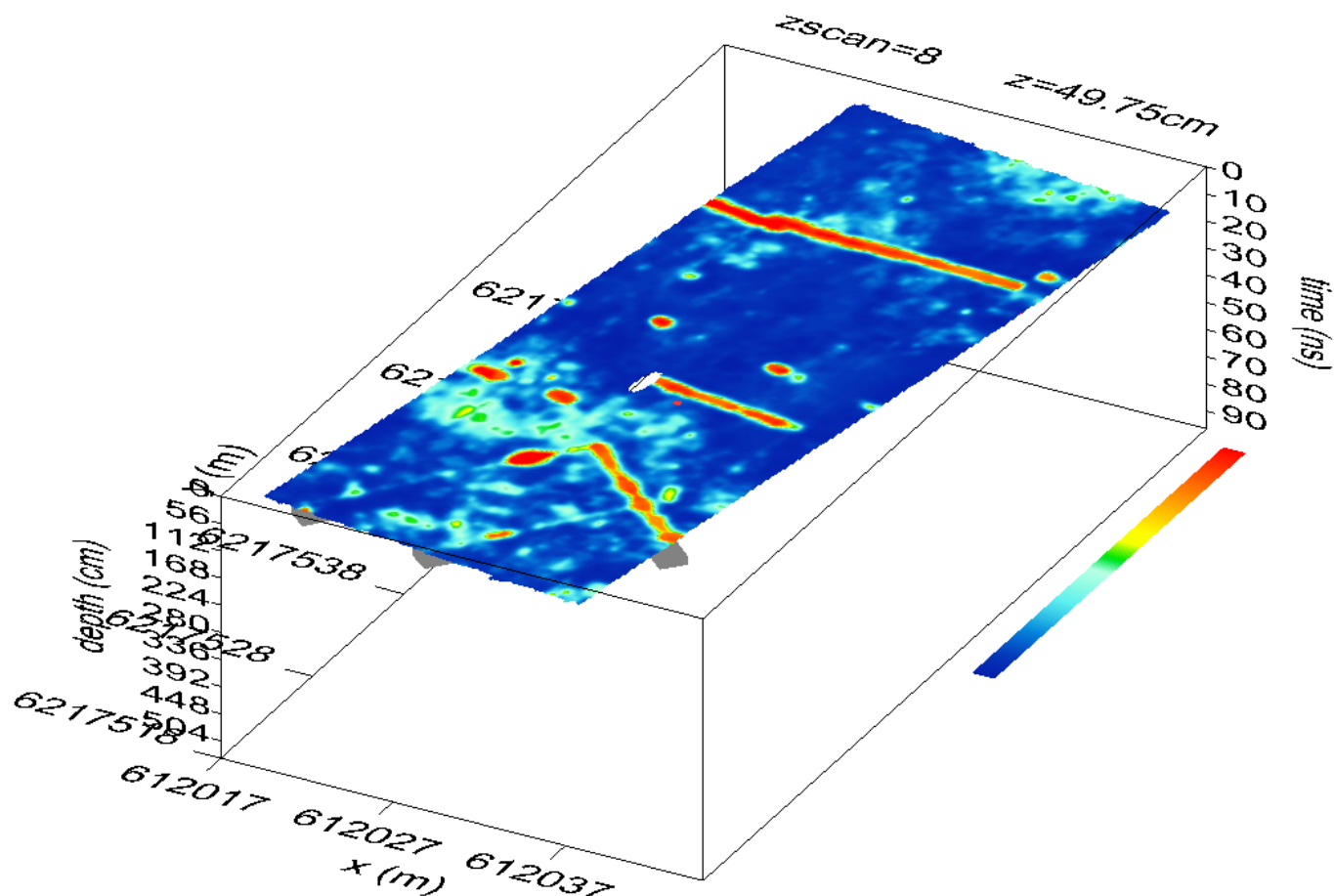


Figure 10: a depth slice of the entire survey area from 50cm below the ground. Two pipes, several unmarked human graves, and the foundations of an old building are present.

We are able to handle data from almost any geophysical instrument, regardless of the manufacturer. If you are interested in our service, feel free to send us an example data file (our contact details are on the last page of this brochure or click/tap at the bottom of this page) so we can ensure that our software can handle it before you start your next job.

## **AN EASY SOLUTION**

## **LET US HANDLE THE COMPLICATED STUFF FOR YOU**

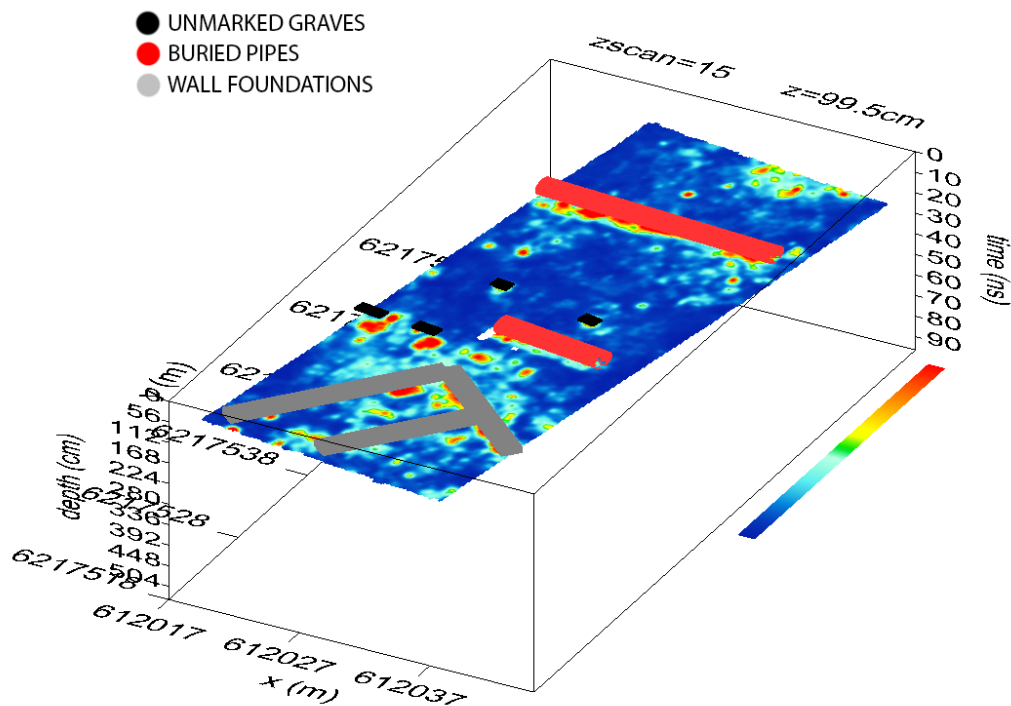


Figure 11: our software allows us to draw interpretations onto the data at specific depths. Drawn data interpretations can be exported to a variety of CAD and GIS formats for use by the client.

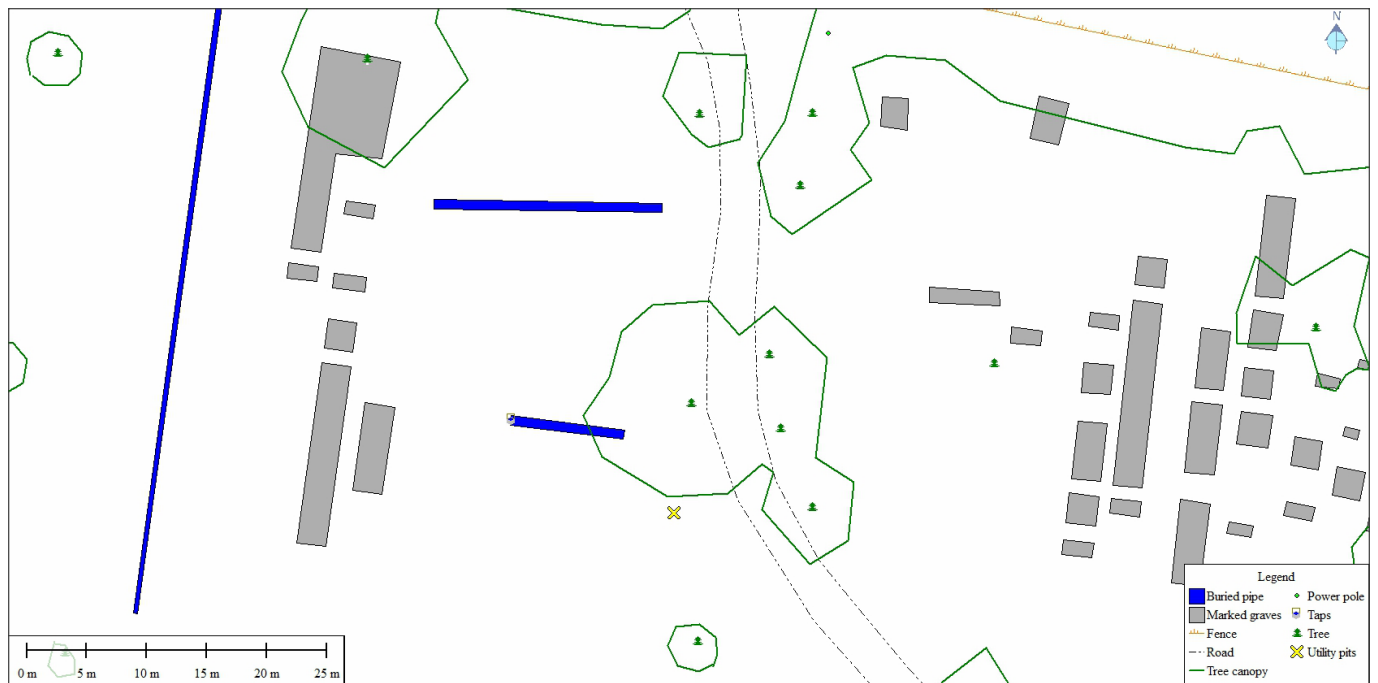


Figure 12: the pipes were imported into the site map Hunter Geophysics created previously so that their location can be seen in context.

## The Big Picture

What you do:

- Collect the data
- Send it to us

What we do:

- Process and interpret the data
- Provide GIS/CAD files for use in your site map system (including SHP, KMZ and DXF files).
- Create site maps for you (if you send total station or GPS data)
- Provide written reports for you to submit to your client
- Reports and maps can be provided electronically or printed or both - YOUR CHOICE!

We can also provide training, or we can perform part or all of the data collection/survey work for you. If you need site plans created, we can do that for you, too.

**CALL US NOW 03 9913 2259 or 0488 501 261.**

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