



# GeoTrax Survey™ vs. Standard ERI Technology Comparison

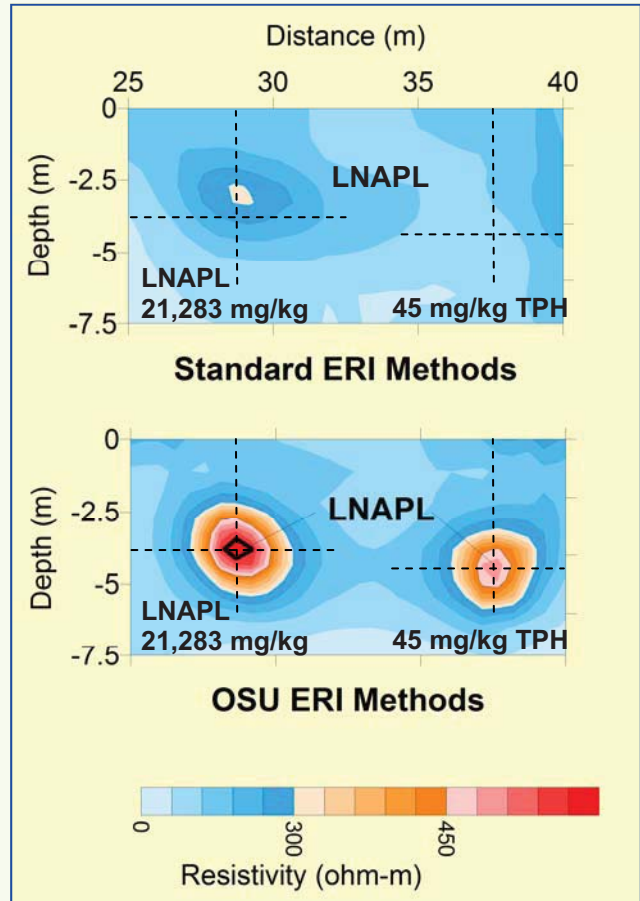
X Standard ERI methods barely able to detect "blob" with the highest concentration of LNAPL detected on this site. [This zone does not appear as a distinct "anomaly" relative to other zones (i.e., darker blue) on right side of image with same resistivity values.]

X Second "blob" does not show up at all using standard ERI

- ✓ OSU's/Aestus' ERI Methods detect both LNAPL-related "blobs" present\*
- ✓ Image shows concentrations in a semi-quantitative manner
- ✓ Images are "Drillable"



\* Presence of two LNAPL related "blobs" confirmed by confirmation drilling; performed by EPA's GWERD lab located in Ada, Oklahoma



Aestus personnel performed our GeoTrax Survey™ to assess the performance of remediation efforts at a leaking UST site. During this effort we performed a technology comparison test in an area at this site that was determined by Aestus personnel (and confirmed by EPA confirmation drilling) to contain residual LNAPLs. Aestus performed standard ERI survey techniques to obtain the top image shown above. We then used our proprietary GeoTrax Survey™ technology to survey the same exact site location and obtained the lower image shown above.

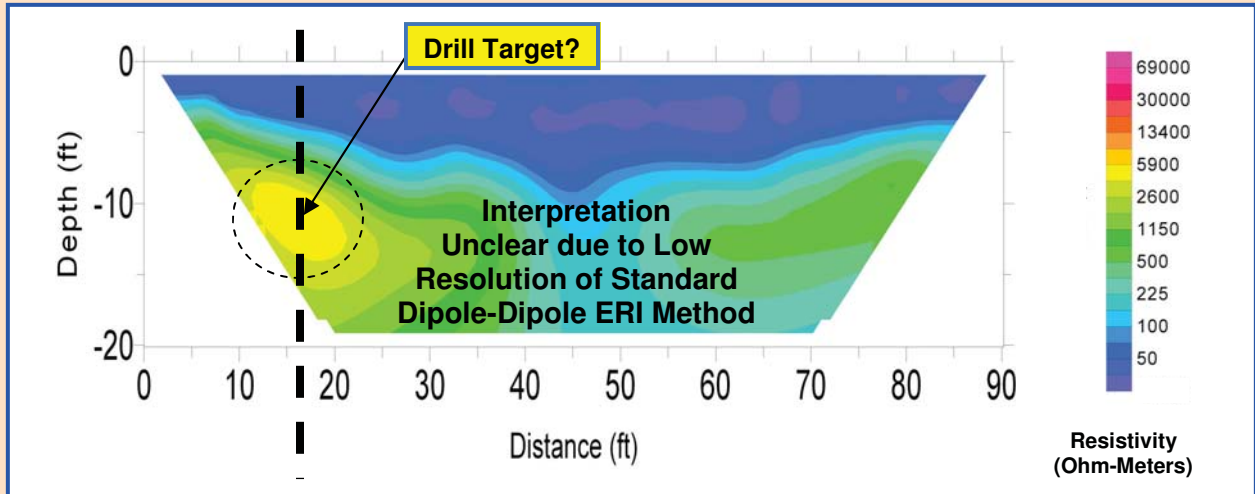
As shown above, Aestus' GeoTrax Survey™ techniques were able to detect both LNAPL "blobs" in a semi-quantitative manner. In contrast, standard ERI techniques were barely able to detect the leftmost "blob" which was determined by the EPA to be the highest concentration of LNAPL compounds ever detected at this site. Additionally, standard ERI did not detect the lower concentration "blob" shown on the right side of the lower image.



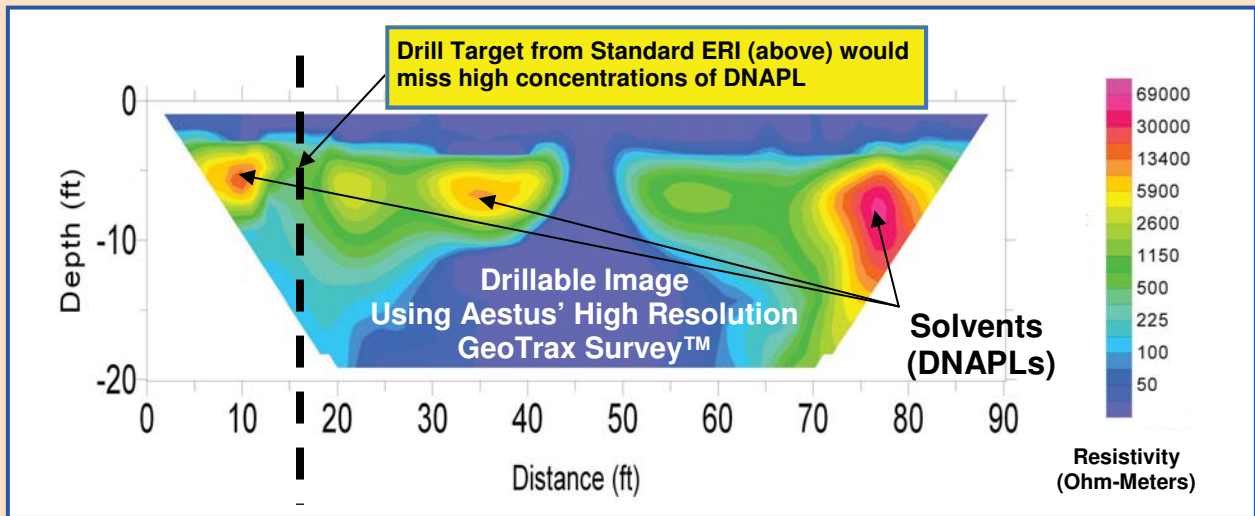
# Locating DNAPLs - Technology Comparison

## Standard ERI versus GeoTrax Survey™

**Standard Electrical Resistivity Image (Standard ERI)**



**Aestus' High Resolution Electrical Resistivity Imaging (GeoTrax Survey™)**



- Standard ERI and Aestus' GeoTrax Survey™ used to located DNAPLS (dense non-aqueous phase liquids) in hazardous waste landfill; Surveys performed at same location on same day using both technologies.
- Standard ERI using Dipole-Dipole array did not have enough resolution to produce meaningful interpretation and drillable targets
- Aestus' proprietary high resolution ERI (branded as GeoTrax Survey™) has enough resolution to produce meaningful results and drillable targets
- Aestus' technology developed and proved out at Oklahoma State University and effectiveness has been confirmed by EPA laboratory and consulting firms.