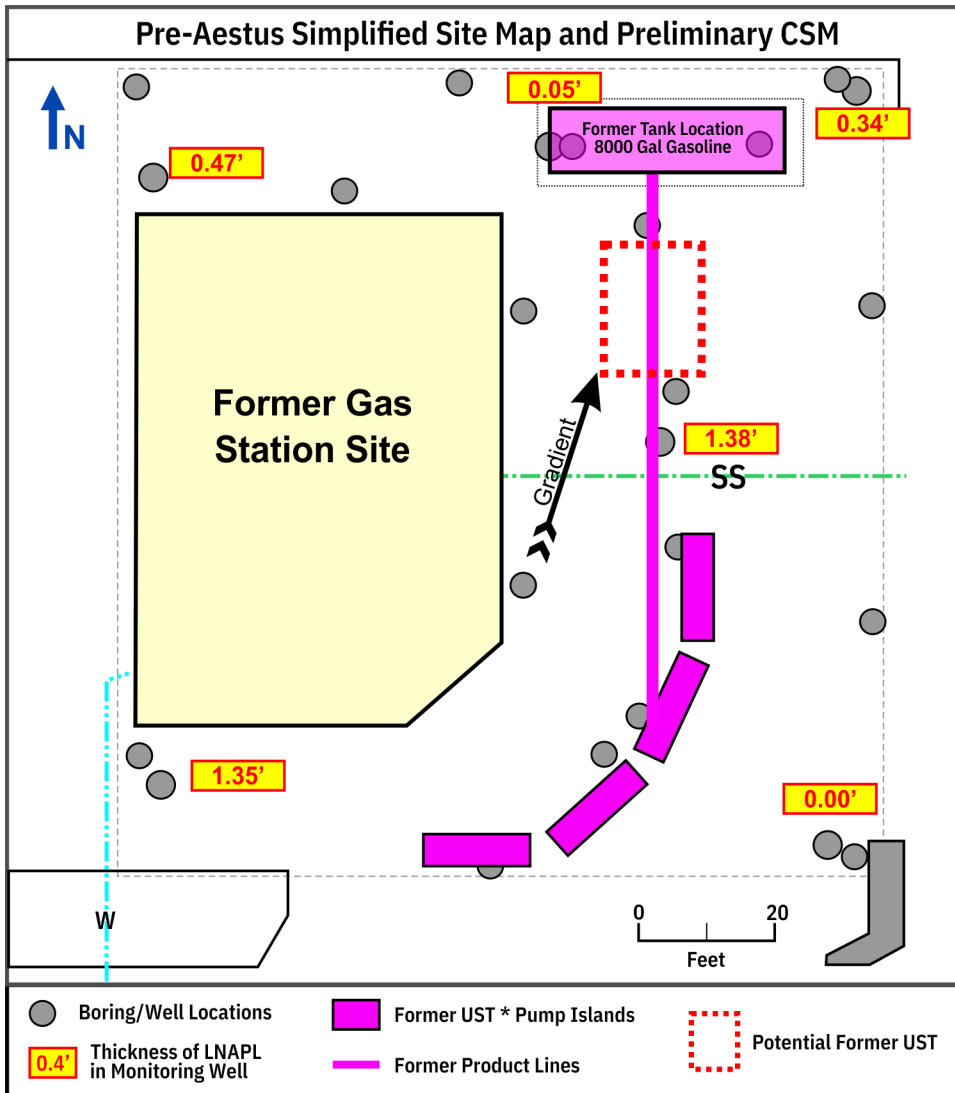


CASE STUDY

DETECTING MULTIPLE LNAPL SOURCES

A former gas station had varying free product (LNAPL) thickness detected in monitoring wells across the site complicated by fluctuating groundwater levels. Former UST and pump islands were suspected sources but no consistent contaminant migration pattern obvious from well data only.

Aestus' consulting firm client, funding entity, and the regulatory agency desired focused drilling targets for more expensive drilling methodologies as well as zones for targeting remediation. GeoTrax Survey™ ultra-HRSC scanning data achieved these goals.



RESULTS

- Identified unknown ust
- Explained distribution of varying lnapi thicknesses
- Identified zones of potential bioactivity/degradation
- Obtained hrsc data despite direct push rig refusal
- Ultra-hrsc csm provides road map for remediation

WHAT MAKES AESTUS SUPERIOR

1. Far more accurate than traditional methods
2. Images enable targeted drilling, monitoring and remediation
3. Geology independent
4. Utilizing Oklahoma State University intellectual property
5. Faster site closure at a lower cost



CASE STUDY

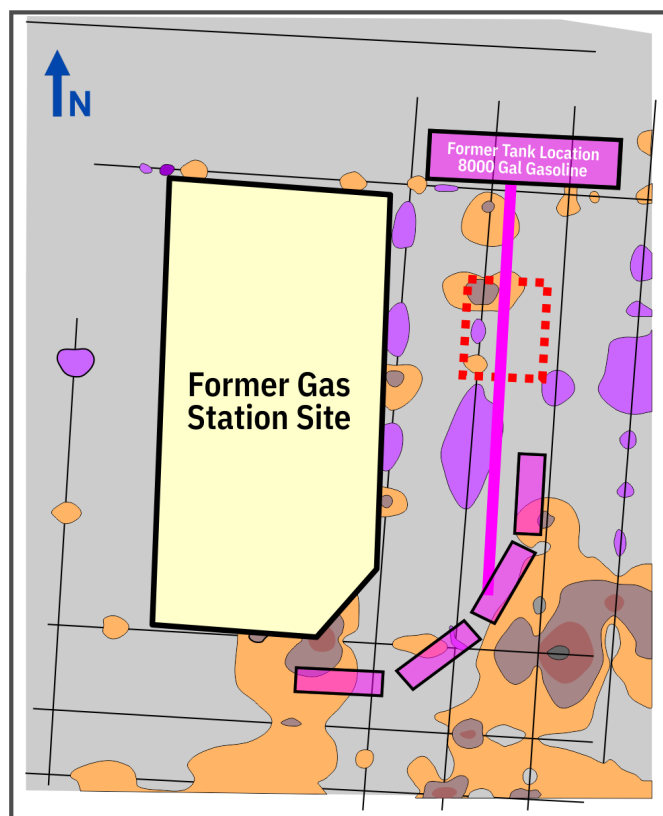
DETECTING MULTIPLE LNAPL SOURCES



Aestus' integrated subsurface imagery and historical drilling into its 3D visualization software as part of our GeoTrax CSM+™ conceptual site model (CSM) update process. Confirmation drilling was performed to confirm electrical anomaly composition at targeted locations. These data were integrated and the resulting updated CSM is shown below in the context of two different GeoTrax Survey™ data elevation slices:

Shallow Pump Island Related Impacts

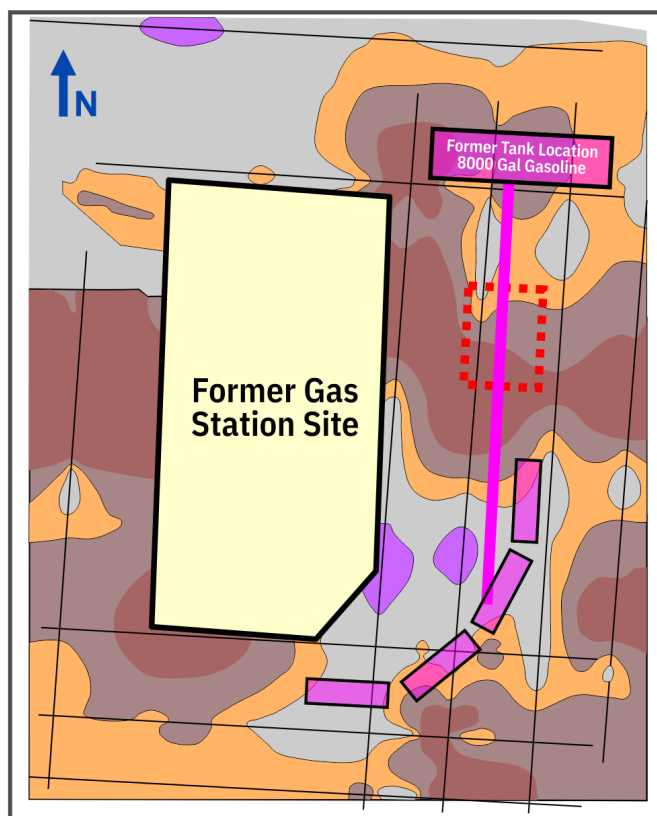
(GeoTrax Survey™ Elevation Slice - 4' BGS)



The graphic above shows LNAPL related impacts (orange and maroon zones) and potential bioactivity (purple zones) at 4 feet BGS and predominately near the former pump islands

Deeper Leaking UST Related Impacts

(GeoTrax Survey™ Elevation Slice - 14' BGS)



The graphic above shows LNAPL related impacts (orange and maroon zones) and potential bioactivity (purple zones) at 14 feet BGS (near water table elevation) and predominately near the known UST location as well as the suspected UST location (red dashed square)



Discover how Aestus can provide you with better data to make better decisions and improve your results.

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