

VENUS ASSET  
MANAGEMENT &  
ENGINEERING SERVICES



V.A.M.E.S

VENUS ASSET MANAGEMENT AND ENGINEERING SERVICES

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[WWW.VAMESLTD.COM](http://WWW.VAMESLTD.COM)

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Contact Us Today!



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# Bridge Examinations



## What Services Do We Offer?

Our team of experienced professionals specialise in comprehensive bridge examinations, ensuring the safety and longevity of these critical structures. With a meticulous approach, we conduct thorough inspections, utilising innovative technology to identify any potential damages and weaknesses. Our services encompass visual/general and detailed/principal inspections, providing our clients with detailed reports and recommendations. Our clients trust us to provide such services to minimise risk to the railway and to the general public whilst enhancing the reliability of the infrastructure.

### » Visual & General Inspections:

Conducting a detailed examination of the entire bridge structure, including super structure, substructure and foundations to identify and visible signs of distress, deterioration or damage.

### » Detailed & Principal Inspections

Conducting a full detailed examination of the entire bridge structure within touching distance, utilising equipment, specialist access where necessary and the latest innovative technology such as snake cams, drones etc. From these full tactile examinations, our clients gain in depth knowledge of the general health of the infrastructure.

### » Documentation and Reporting:

Compiling a comprehensive report to Network Rail standards includes findings from the completed inspections, analysis results and detailed recommendations for maintenance, repair or further evaluation. These reports will include photographic documentation to back up our written findings. Our reports will serve as a valuable reference for future decision making and compliance documentation.

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# Culvert Examinations



## Our Culvert Examinations Service:

Our professional team specialises in a multitude of inspection services and more commonly Culvert Examinations. Our Culvert Examinations Service will ensure optimal functionality. Structural integrity and safety of your Culvert Infrastructure. Here at V.A.M.E.S, we are a reputable provider of engineering services and we are thoroughly dedicated to delivering thorough and concise inspections for a variety of culvert types.

## How do we work?

- » **Inspection:**  
Conducting a meticulous examination of the entire culvert structure. This includes the inlet and outlet areas, the barrel and the surrounding environment to identify visible signs of deterioration, damages or blockages.
- » **Sediment and Debris Removal:**  
If required, we implement measures to remove the accumulated sediment, debris or other obstructions that may affect the functionality of the culvert and contribute to future issues.
- » **Structural Assessment:**  
Our team will evaluate the structural integrity of the culvert through visual inspections and when necessary, use non-destructive testing methods to identify any hidden defects or structural weaknesses.
- » **Documentation and Reporting:**  
Compiling a comprehensive report that will include findings from the inspection, structural assessment outcomes and detailed recommendations for maintenance, repair or replacement. This report serves as a valuable tool for proactive asset management and regulatory compliance.

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# Other Examinations



## What Is Our Objective:

Our primary objective of our services is to conduct Network Rail Standard inspections and assessments of these critical structures, identifying potential issues, evaluating their current condition and providing actionable recommendations for maintenance, repair or further evaluation.

## Scope Of Work?

### » Signal Gantries:

Visual inspections of gantry structures, including support members, connections and foundations. Assessment of the electrical and mechanical components related to signal systems. Evaluation of corrosion, fatigue and generalised wear and tear.

### » Retaining Walls:

Inspections of the retaining wall structure include foundations and drainage systems. Analysis of the wall's stability, looking for signs of settlement or movement. Assessment of potential erosion and scour issues.

### » Underwater Examinations

Inspections of the infrastructure that may span water courses and cannot be reached by foot. We use several methods of access from boats to pontoons. The inspection of these structures is slightly different to the land structures, here we check the depths of the water, silt and check for scour. With water being so damaging to our infrastructure, we follow these inspections with an extensive report compiled of all the findings from our underwater examination.

### » Equipment Support Structures:

Inspections of support structures for various equipment, ensuring they meet safety and compliance standards. Evaluation of structural integrity and load-bearing capacity and overall assessment of corrosion and the effectiveness of protective coatings.

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# Other Examinations

## What Other Services Do We Offer?:

As well as examinations on signal gantries, retaining walls and equipment support structures, we also cover other areas such as underwater examinations with specialist access and 3D surveys using latest drone technology to our advantage.

## What Does This Entail ?

» **Our Underwater Bridge Examination Service** is designed to provide a comprehensive assessment of bridges in places difficult to reach. Using cutting-edge technology and skilled access teams, we aim to identify potential issues, assess structural health, and deliver actionable insights to facilitate informed decision-making. The main benefits of this service are:

**Detailed Insights:** Our underwater examinations deliver detailed information about the condition of submerged bridge components, ensuring a comprehensive understanding of potential issues.

**Cost-Effective Solutions:** By utilizing advanced underwater inspection methods, we minimize the need for costly and time-consuming traditional dive operations.

**Minimized Disruption:** Our efficient underwater examination process minimizes disruptions to bridge operations and traffic flow.

» **Our Bridge Examination Service** employs state-of-the-art drone surveying technology to conduct thorough assessments of multiple types of structures, from bridges to culverts, our technology reaches it all . The combination of aerial surveys and detailed inspections allows for a holistic examination of both superstructure and substructure elements. The Main benefits of this service would be:

**Efficiency:** Drone surveying significantly reduces inspection time, minimizing disruption to bridge operations and traffic flow.

**Cost-Effective:** By leveraging drone technology, we optimize survey processes, reducing costs compared to traditional inspection methods.



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# V.A.M.E.S Work Gallery





