

# Case Study

## Electro Mechanical Services



### Summary



<b>Industry:</b>	Water and Wastewater
<b>Application:</b>	PST Repair
<b>Actual Saving:</b>	Estimated £15,000
<b>Payback Period:</b>	Unknown



## Primary Settlement Tank

ERIKS repairs failed Primary Settlement Tank for a major sewage treatment facility in London

### ISSUE

A Primary Settlement Tank (PST) failed at a major sewage treatment works in London leading to the settled sludge process halting on the tank in question.

This led to inverted sludge developing on top of the tank and effective sludge removal not able to be removed as a part of the treatment process.

The sludge is removed from the PST's and refined for power generation on the specially constructed Sludge Powered Generator (SPG) plant onsite.



### OUTCOME AND BENEFITS

Subsequently after completion of the first refurbishment of the PST a second order has been placed and 2x sets of spares were also ordered for other tanks onsite.

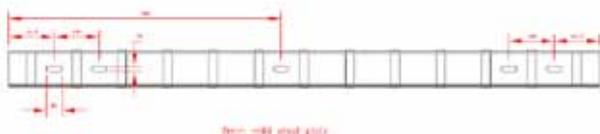
ERIKS showed professional ability in operating in high safety regulated projects.





## SOLUTION

Due to the age and nature of damage that had occurred to the bridge, ERIKS completed a full analysis of the bridge components and were therefore able to complete a survey and compile a large and comprehensive mechanical repair quotation for refurbishment.



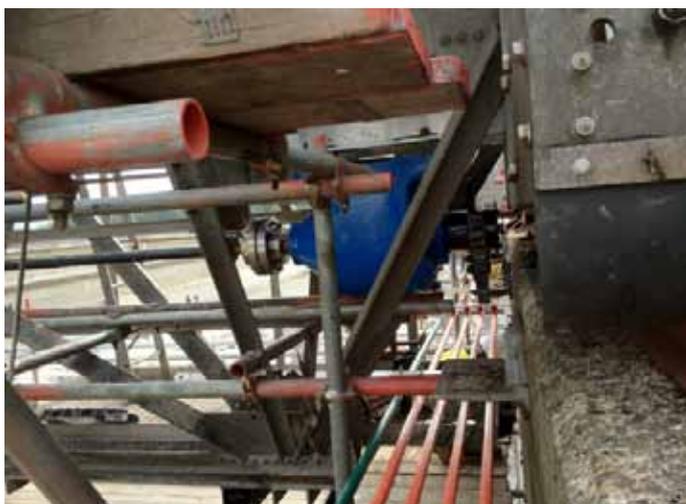
ERIKS were successful for the quotation and as a part of the repair process we compiled detailed fabrication drawings in order to accurately quote and manufacture the required components.

Once fabrication of the components was completed then the removal of the bridge components was carefully planned and co-ordinated using fully Insured Scaffolding & Contract Lifts in order to remove the heavily weighted shafts, scrapers, wheels, gearboxes and motors.

After the Risk Assessments & Method Statements for the mechanical work, scaffolding, site traffic management and the lifting plans were approved ERIKS were then able to co-ordinate the site attendance and removal of components.



Fabrication of all materials took 1-2 months and ERIKS were then able to return to site to install the newly fabricated components as required and re-commission the bridge.



## MORE INFORMATION

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