



Environmental
Management
Services

Drain Survey & Surface Water Rebate Case Study

Summary

We were commissioned to update the drainage maps for three large hospitals.

The original commission was requested following advice from ISO 14001 auditors and with the intention of applying for a surface water rebate.

The new map helped them to achieve ISO 14001 recertification and proved they were over paying in sewerage charges leading to a rebate of over £50,000.



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The sites already had detailed drainage maps however historical changes meant that they were outdated and inaccurate. The new map found numerous inaccuracies on the existing plan and helped them to achieve ISO 14001 recertification.

Our survey also found that 100% of the sites surface water drainage discharged into neighbouring watercourses (ponds and rivers). This allowed them to apply for a surface water rebate from the local sewage undertaker and proved they were over paying in sewerage charges leading to a rebate of £50,000 and an annual reduction in future charges of £50,000 per year.

Our drain survey consisted of:

- Collating and studying all existing drainage plans in order to build a general picture of the sites' drainage system.
- Establishing via dye testing connectivity of all site drainage.
- Measuring invert levels and pipe diameters.
- Present data on a colour coded CAD (Computer Aided Design) site plan and index list of each drain.
- Investigate outfalls/off- site discharge of storm and foul systems.
- Paint each lid in accordance with their usage (red for foul, blue for storm). Enabling easy identification in the event of a spill.
- Provide general survey recommendations including suggestions for remedial action needed.

