

**A TREATISE ON THE  
SANITARY  
MANAGEMENT AND  
UTILISATION OF SEWAGE**

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A Treatise on the Sanitary Management and Utilisation of Sewage by William Menzies

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**WILLIAM MENZIES**

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THE  
SANITARY MANAGEMENT AND UTILISATION  
OF  
SEWAGE.

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A TREATISE ON THE  
SANITARY MANAGEMENT AND UTILISATION  
OF  
S E W A G E :

COMPRISING DETAILS OF A SYSTEM APPLICABLE TO COTTAGES, DWELLING-HOUSES, PUBLIC  
BUILDINGS, AND TOWNS; SUGGESTIONS RELATING TO THE ARTERIAL DRAINAGE  
OF THE COUNTRY AND THE WATER SUPPLY OF RIVERS.

BY  
WILLIAM MENZIES  
DEPUTY SURVEYOR OF WINDSOR FOREST AND PARKS.

*ILLUSTRATED WITH NUMEROUS DRAWINGS.*

LONDON:  
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*232. h. 2.*





## PREFACE.

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THE SYSTEM for the management and utilisation of sewage recommended in the following pages has been to me a matter of long and serious study.

I have made many experiments during the fifteen years that the Crown Property at Windsor has been under my care; while, in the last few years of his life, I had frequent opportunities of hearing the Prince Consort express his views on the subject, to which he had given his earnest attention.

The first place at which I successfully carried out plans for the utilisation of sewage was Wellington College, in 1859; and the Prince, as President, was satisfied with the result. In 1862 Lord Derby, who had succeeded His Royal Highness as President, re-

requested me to prepare a statement of the principles upon which the works at the College had been executed; and at a public meeting at Halifax, in the autumn of the same year, his Lordship recommended to the favourable notice of the public the pamphlet which I had prepared and printed at his suggestion.

So important, indeed, was the subject in Lord Derby's judgment, that he offered a premium of £200 to anyone who would successfully utilise the sewage of a town of 5,000 inhabitants. About the same time Mr. Gladstone insisted strongly on the need of some satisfactory method of dealing with a national subject so important but so little understood.

From that time I have incessantly studied the question, as I felt bound, if I could, to follow up to their legitimate conclusions many of the principles which were laid down as essential by Lord Derby, and for the correctness of which I felt that I was to a certain extent answerable.

I may remark that all my plans have been put