



Calderdale Borough Council

Human Health Risk Assessment Review Response Summary

October 2024





Document Control Sheet

Identification	
Client	Calderdale Borough council
Document Title	Summary of HHRA Response
Bureau Veritas Ref No.	AIR21621154

Contact Details		
Company Name	Bureau Veritas UK Limited	Calderdale Borough Council
Contact Name	Daniel Clampin	Kate Rley
Position	Air Quality Principal Consultant	Senior Environmental Health Officer

Configuration				
Version	Date	Author	Reason for Issue/Summary of Changes	Status
1	14/10/2024	D Clampin	First Issue	First

	Name	Job Title	Signature
Prepared By	D Clampin	Principal Consultant	
Approved By	D Clampin	Principal Consultant	

Commercial In Confidence

© Bureau Veritas UK Limited

The copyright in this work is vested in Bureau Veritas UK Limited, and the information contained herein is confidential. This work, either in whole or in part, may not be reproduced or disclosed to others or used for any purpose, other than for internal client evaluation, without Bureau Veritas' prior written approval.

Bureau Veritas UK Limited, Registered in England & Wales, Company Number: 01758622
Registered Office: Suite 206 Fort Dunlop, Fort Parkway, Birmingham B24 9FD

Disclaimer

This Report was completed by Bureau Veritas on the basis of a defined programme of work and terms and conditions agreed with the Client. Bureau Veritas confirms that in preparing this Report it has exercised all reasonable skill and care taking into account the project objectives, the agreed scope of works, prevailing site conditions and the degree of manpower and resources allocated to the project.

Bureau Veritas accepts no responsibility to any parties whatsoever, following the issue of the Report, for any matters arising outside the agreed scope of the works.

This Report is issued in confidence to the Client and Bureau Veritas has no responsibility to any third parties to whom this Report may be circulated, in part or in full, and any such parties rely on the contents of the report solely at their own risk.

Unless specifically assigned or transferred within the terms of the agreement, the consultant asserts and retains all Copyright, and other Intellectual Property Rights, in and over the Report and its contents.

Any questions or matters arising from this Report should be addressed in the first instance to the Project Manager.

1 Introduction

Bureau Veritas has been appointed by Calderdale Borough Council to peer review the Human Health Risk Assessment submitted in support of the Environmental Permit (EP) Application by Calder Valley Skip Hire Ltd (CVSH). CVSH propose to operate a new small waste incineration plant (SWIP) at their waste transfer station (WTS) site in Sowerby Bridge, West Yorkshire.

The EP application (Ref. S13/006) included a supporting Human Health Risk Assessment (HHRA) which considers the impact of the application on sensitive receptors.

Bureau review was completed in July 2024 and RPS have provided a response note. This response note is summarised below in non-technical language.

2 Comment 1 Summary and Response

The first comment made within the Bureau Veritas review was a discrepancy within the Human Health Risk Assessment (HHRA) and the submitted Air Quality Assessment. While it is accepted that these two assessments are different and informed by different evidence bases and methodologies, they are based on some of the same principles. For example, the HHRA has used the modelling work completed for the Air Quality assessment as an input to the HHRA's predictive modelling.

Bureau Veritas noted that the surrounding resident which was most affected within the Air Quality Assessment had not been considered within the HHRA.

RPS have provided a response stating that based on the different methodologies inherent in the 'IRAP' model used for the HHRA, they do not believe that the worst case Air Quality receptor would be the same as the worst case HHRA receptor.

3 Comment 2 Summary and Response

As stated above, there are links between the Air Quality assessment and HHRA. One of which is the output from the ADMS model being used for the HHRA. Bureau Veritas have also commented on the Air Quality Modelling assessment methodology which used this 'ADMS Model'.

The ADMS model for air quality went through many iterations and tests to ensure that it was providing a robust and reliable means for predicting changes as a result of the development. These tests included using data from a different weather station and using different model inputs to represent the local geography around the assessment site.

RPS have provided a summary of the different tests which show that the difference between the models varies at different receptors and the variation is not great. It is therefore considered that a suitable model output has been chosen to inform the HHRA.

4 Comment 3 Summary and Response

There were several assumptions made within the HHRA for which it was not clear how the assumptions were made. Specifically, these were the assumption of an average UK lifespan of 70 years and assumption 20kg for the average weight of a child. These figures were used within the calculations to inform the assessment.

RPS have responded to state that the 70 year lifespan was not actually used within the assessment, therefore the assumption is not significant.

They have also advised that the assumption of a 20kg child is based on an Environment Agency report. This is considered appropriate.