



## Case Study: QuestGates carbon calculator producing results

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The QuestGates Carbon Calculator has now been fully embedded into our management of environmental claims. The results being produced are impressive both in terms of measuring the carbon footprint of a project but also incorporating carbon (CO<sub>2</sub>e) cost estimates into remedial options appraisals. The ultimate goal is to reduce green house gas emissions and drive the implementation of more sustainable approaches and techniques in the assessment and remediation of contaminated sites.

TOTAL CARBON FOOTPRINT

**5.81 Tonnes CO<sub>2</sub>e**

ACTIVITY CARBON FOOTPRINT

**5.20 Tonnes CO<sub>2</sub>e**

MATERIAL CARBON FOOTPRINT

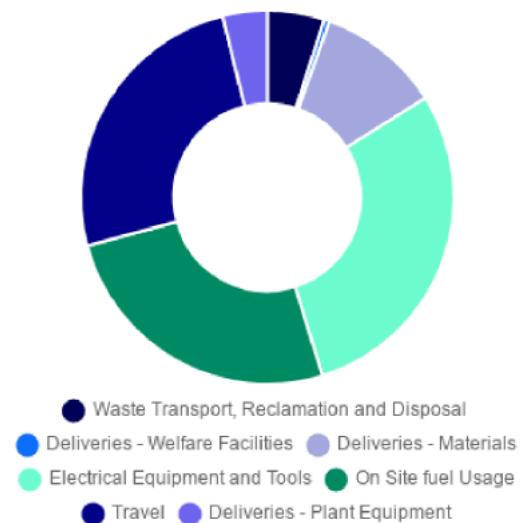
**609.41 Kg CO<sub>2</sub>e**

## Activities

SUMMARY OF ACTIVITIES

Activity Group	Sum of CO <sub>2</sub> e KG
Waste Transport, Reclamation and Disposal	257.26
Deliveries - Welfare Facilities	24.31
Deliveries - Materials	554.81
Electrical Equipment and Tools	1515.42
On Site fuel Usage	1331.02
Travel	1317.19
Deliveries - Plant Equipment	199.96

DISTRIBUTION OF ACTIVITIES CO<sub>2</sub>e



A recent case managed by QuestGates involved the escape of 15,000 litres of liquid fertiliser in an agricultural setting which resulted in the pollution of on-site lagoons, ditches and a watercourse. The Environment Agency was involved and insisted on source removal to mitigate against risk of further migration into a sensitive controlled water.



With pumping and spreading to land not possible/permitted, there were two viable remedial options, one being physical removal and off-site disposal, the other was the in-situ treatment and controlled release of liquid contaminants. The selected option with Environment Agency approval was the in-situ approach.

Sustainability was central to the design, approach and management of the claim and the QuestGates Carbon Calculator was used to help further refine the selected option with a solar powered telemetry system installed to reduce the number of site visits, thus reducing travel and vehicle/fuel usage.

This project was a sustainability success with over 72% savings in the carbon footprint compared to removal and disposal of liquids with over 20 tonnes of CO<sub>2</sub>e saved!

The QuestGates carbon calculator is already having a significant impact on the measurement and reduction of the carbon cost of insurance claims, promoting a more sustainable approach to projects and helping our clients and their customers work towards achieving their Net Zero goals Scope 3 reporting requirements. We will be extending the use of the carbon calculator to general peril claims in Q2 of this year which we anticipate will further drive the use of more sustainable practices and materials resulting in significant carbon cost savings across all property claims.