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H&M Environmental Ltd
Odour Monitoring

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November 22nd 2013

Steve Van Der Keift
2 Sisters Food Group Limited
Sandycroft
Deeside

Dear Mr Van Der Keift

2 Sisters – Sandycroft OCU Odour Testing

Further to recent discussions concerning the above project, we are pleased to provide our proposals as follows:

Project Appreciation & Scope

Since 2012 2 SISTERS has installed a "Parsons" chemical scrubber odour control unit at Sandycroft. Due to this change 2 SISTERS now wish to establish how well this new system is working and also have a record of the odour concentration expelled via this stack. This proposal is to:-

Olfactometric Sampling

The proposal is to undertake a one day sampling exercise to establish odour concentrations at the inlet and outlet of the new chemical scrubber:

- Three pairs of inlet and outlet olfactometric samples will be taken on a normal working day (total of six samples)
- The sampling will be in accordance with the principals of EA Guidance: Stack Emissions Monitoring Method Implementation Document MID for EN 13725. 60 litre samples of the odorous air will be taken using the lung method (a tedlar sample bag is placed within a plastic drum, a 12V dc battery powered vacuum pump is used to evacuate the air around the bag from the drum; this creates a vacuum that draws air into the sample bag, via a 10mm sample tube, from the OCU inlet and outlet ducts).
- Determine the hydrogen sulphide (H₂S) and ammonia (NH₃) content of each of the above six samples
- Transport the samples to a UKAS accredited laboratory for olfactometric analysis in accordance with BSEN13725
- Interpret and report the results

Services/Information Required From 2 SISTERS Sandycroft

- Access to 2 SISTERS Sandycroft – in particular to the inlet ductwork (sample point: minimum 10mm diameter) and to the outlet stack of the chemical scrubber to take the samples. 2 SISTERS to provide cherry picker and operator if necessary

Registered at Companies House, Cardiff. N° 4350137. Directors: H Tofts, M Houseman
Registered Address: Aikrigg Barn, Beckside, Killington, Camforth LA6 2EY

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- Details of any particular health and safety measures required at the site.
- Any other assistance that might reasonably be required to complete this work.

Costs

Olfactometric sampling as above (we have allowed for the collection and analysis of a total of six olfactometric samples) **£2,694** (two thousand, six hundred and ninety four pounds)

These costs are inclusive of the provision of all necessary monitoring equipment, analysis, reporting and all travel & expenses, but exclusive of value added tax (VAT) that will be charged at the prevailing rate.

H & M Environmental Ltd will commence this project upon receipt of a purchase order/written authorisation to proceed from 2 SISTERS.

I hope that this proposal is of interest, but if you have any queries or require any amendments please do not hesitate to contact the undersigned.

Yours sincerely,



Matthew Houseman
Senior Consultant

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