



## **Tender Reference: STSC-FB-0005**

### **Title: Landfill Monitoring Services**

### **Date of Issue: 15<sup>th</sup> June 2018**

South Tees Site Company (STSC) would like to advise of the below questions received prior to the clarification deadline (12<sup>th</sup> June 2018), and our responses.

#### **Questions and clarifications:**

**Q1: Is a copy of permit RP343HP available?**

A copy of permit RP343HP is available to download from the attachment section of the Landfill Monitoring Services (STSC-FB-0005) tender notice on Contracts Finder.

**Q2: What is the present/acceptable way of accessing the boreholes?**

Due to the conditions of the roads and the layout of the boreholes across the site, a 4WD vehicle is recommended. However, as a result of the natural topography, there are several boreholes that will need to be accessed via foot. It is the responsibility of the successful contractor to follow the third party companies' guidance and make the appropriate arrangements.

**Q3: Can a vehicle be used due to the amount of bottles that will require samples?**

Yes. Depending on numbers in attendance this could be an STSC vehicle as our Accounting for People procedure does not allow for lone working and therefore any single individual coming to site will be accompanied by an STSC representative with their own transport. Samples may also be securely packaged and left at Redcar Gatehouse for collection by courier, if the contractor makes the appropriate arrangements.

**Q4: Is historical (average) monitoring data available?**

We are unable to provide this information at this time. The available historical data can be shared, however, upon contract award.

**Q5: What are the borehole chamber depths?**

Please refer to supporting spreadsheet. Responses in red are not known for certain and the depths stated refer to DIPS TO BASE.

**Q6: What is the maximum level of ground water and leachate levels above the cell lining?**

2m AOD (Cell J is the only properly lined cell and is monitored by STSC as well as the incumbent contractor). Therefore maximum allowable depths are: MJ = 5.89m (7.89m), MJ1 = 5.84m (7.84m), LWJ = 3.87m (5.87m).

**Q7: What is the groundwater and leachate borehole design (diameter and depth)?**

Borehole diameter: 63mm outside diameter, 50mm inside diameter; Leachate well diameter: 450mm OD, 360mm ID.

**Q8: What is the typical depth to groundwater?**

Typical dips to water are between 3 and 11 metres; dips to base are typically between 5 and 13 metres.

**Q9: What is the procedure for lone working?**

STSC's Accounting for People procedure does not allow for lone working and therefore any single individual coming to site will need to be accompanied by an STSC representative. STSC will require at least 5 working days' notice to finalise permit to work arrangements.

**Q10: What is the procedure for 3<sup>rd</sup> Party Inductions?**

As some of the boreholes are on land shared with a commercial landfill (Highfield Environmental) and



others on land occupied by a third party (Tarmac), personnel will have to be inducted with these companies as well as STSC. Whilst STSC will make initial introductions, it is the responsibility of the successful contractor to follow the third party companies' Induction policies.

**Q11: Familiarization with the Site**

If required, STSC can accompany the contractor on their first visit to confirm locations and/or borehole types. STSC will require at least 5 working days' notice if this facility is needed.

**Q12: Please clarify under Declaration 6 (Use of sub-contractors) how pass/fail is assessed**

This is a wording error - the assessment method listed is incorrect and should read "Informative" not "pass/fail".

**Q13: Is there an agreed sampling protocol which would be followed? If so what is the purging method (3 well volumes using inertial pump or low flow purging?)**

3 well volumes, using an inertial pump. The contractor will have to provide their own equipment for the task.

**Q14: Is there an appropriate and convenient disposal route for borehole purged volumes?**

Purged volumes have typically been discharged to ground on the landfill as per RAMS.

**Q15: Is there a requirement for collection of duplicate samples?**

STSC would leave this to the discretion of the contractor. STSC does not have the equipment to analyse these samples and as such we would not expect to receive any. However we would consider it to be good practice to collect duplicate samples to reduce the chances of any loss of analysis e.g. that may be caused by breakage during transit.

**Q16: Has an AOD (Above Ordnance Survey) survey been done on each borehole to establish the levels when carrying out dip/water levels?**

Information could not be found.

**Q17: Historically a parameter can exceed its trigger level, for example: Carbon Dioxide on one or more bore holes exceeded its trigger levels after being checked on the quarterly inspection or a groundwater sample exceeded its parameters which was unusual. Good practice is to then check more frequently to establish if this is just a freak reading or something is wrong, should this be considered within the tender as a potential additional cost to investigate or would this be something that you (STSC Ltd) would need to be contacted on to consider separate cost for investigation?**

STSC would have to consider this as a separate cost.

**Q18: Regarding List 1 Suites are you able to request the specific breakdown of the List 1 suite for all parameters and any Limits of Detection that need to be achieved? Or will the Permit confirm this?**

List 1 Substances are covered by the Water Framework Directive (previously covered by the Groundwater Directive (80/68/EEC) until 2013). They are:

- Organohalogen compounds and substances which may form such compounds in the aquatic environment
- Organophosphorus compounds
- Organotin compounds
- Substances which possess carcinogenic, mutagenic or teratogenic properties in or via the aquatic environment
- Mercury and its compounds
- Cadmium and its compounds
- Mineral oils and hydrocarbons
- Cyanides



Limits of Detection are not stipulated in the permit and are dependent on the analytical method used. The Hydrogeological Risk Assessment for the permit stated that List 1 substances would be below the LOD and this has been borne out by analysis to date.

**Q19: Are there any plans to treat the leachate and discharge to sewer, as leachate may probably increase over time?**

Leachate from Cell J is periodically drained into its lagoon. This is then emptied with the leachate being removed from site for disposal.

**Q20: Is the price listed in the tender for the full three year contract, or one year, as the pricing schedule is asking for a price for one year only?**

As per the ITT document, the budget for the full three year contract is £32,000 to £48,000. The Excel Pricing Schedule is for indicative purposes to allow for like-for-like comparisons, and should be based on 12 month (1 year) costs.

**Q21: Regarding maintenance of specific Boreholes, who would be responsible for this? And how would this be reported?**

Any faults with the boreholes should be reported to STSC, who will look at the requirements for repair. Boreholes were recently subject to an audit by the incumbent contractor and brought up to standard.

**Q22: Who would be required to liaise with the regulators (EA) in the event of non-compliance was identified when carrying out monitoring of boreholes in relation to other aspects of the landfill that do not fall in to the perimeter monitoring.**

This is the responsibility of the permit holder. STSC would notify the EA where required (e.g. exceedance of permit limit) and take the lead in any investigation.

**Q23: In the event a notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, or is causing or may cause significant pollution from the boreholes would this be communicated to South Tees Site Company Ltd direct or would it be the job of the company winning the tender to contact the regulator?**

As above. Any incidents/adverse events should be communicated to STSC.