

## **Appendix A – Olfasense Monitoring Report**



## REPORT

Odour results report from Ford  
WwTW, West Sussex

Client:  
Redrow and Wates

Report Number:  
REWA21A\_06

Project Code:  
REWA21A



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client: Redrow and Wates

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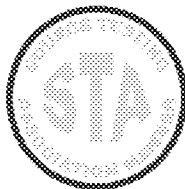
date: June 16, 2021

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## 1 Introduction and Scope

Redrow and Wates (REW) commissioned Olfasense UK Ltd to undertake an odour measurement exercise at a wastewater treatment works (WwTW) in Ford, West Sussex. The overall aim of the study was to measure the current odour emissions of the sources sampled.

The specific scope of the study was as follows:

- To undertake an odour survey of the works to measure the current odour concentrations and where possible emission rates from the key elements of the sewage and sludge treatment processes on site.
- To assess the offensiveness and character of the outlet, treated airstream of OCU samples.

This report details the findings of the study.

### 1.1 Structure of Report

The structure of the report is as follows:

- Section 2 describes the methodology undertaken to conduct the study.
- Section 3 presents the results of the assessment.

Supporting information can be found in the Annex.

### 1.2 Quality Control and Assurance

Olfasense's odour measurement, assessment and consultancy services are conducted to the highest possible quality criteria by highly trained and experienced specialist staff. All activities are conducted in accordance with quality management procedures that are certified to ISO 9001 (Certificate No. A13725).

All sensory odour analysis and odour sampling services are undertaken using UKAS accredited procedures (UKAS Testing Laboratory No. 2430) which comply fully with the requirements of the international quality standard ISO 17025:2017<sup>1</sup> and the European standard for olfactometry BS EN 13725:2003<sup>2</sup>. Where required, Olfasense are accredited to conduct odour sampling from stacks and ducts in accordance to ISO 17025:2017 and BS EN 13725:2003 under the MCERTS scheme. Olfasense is the only company in the UK to have secured UKAS accreditation for all elements of the odour measurement and analysis procedure. Opinions and interpretations expressed herein are outside the scope of UKAS accreditation.

The Olfasense laboratory is recognised as one of the foremost laboratories in Europe, consistently out performing the requirements of the British Standard for Olfactometry in terms of accuracy and repeatability of analysis results.

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<sup>1</sup> ISO 17025:2017 – *General requirements for the competence of testing and calibration laboratories.*

<sup>2</sup> BS EN 13725:2003 – *Air quality. Determination of odour concentration by dynamic olfactometry.*

## 2 Description of approach

### 2.1 Odour survey

The odour sources associated with Ford WwTW were defined by the client. An odour survey on the selected sources was undertaken on the 18<sup>th</sup> May using the following methodology:

- Odour sampling was conducted using Olfasense's UKAS accredited procedures which comply fully with the requirements of the international quality standard ISO 17025 and the European standard for olfactometry BS EN 13725. Odour samples were collected from the locations defined in Table 1 below.

Table 1: Odour survey scope

| Location                       | Sampling technique | Analyte, No. of replicates |                   |              |                            |
|--------------------------------|--------------------|----------------------------|-------------------|--------------|----------------------------|
|                                |                    | Odour                      | Hydrogen sulphide | Hedonic tone | Odour Character assessment |
| Final settlement tank          | Hood               | 2                          | 2                 | -            | -                          |
| Aeration lane start            | Hood               | 3                          | 3                 | -            | -                          |
| Aeration lane end              | Hood               | 3                          | 3                 | -            | -                          |
| Imported sludge OCU outlet     | Point source       | 2                          | 2                 | 1            | 2                          |
| Left Main OCU inlet airstream  | Point source       | 2                          | 2                 | -            | -                          |
| Right Main OCU inlet airstream | Point source       | 2                          | 2                 | -            | -                          |
| Main OCU outlet                | Point source       | 6                          | 6                 | 1            | 6                          |

- The collected samples were then transported to one of the Olfasense's UKAS accredited laboratories (testing no. 2430) for the following analysis:
  - Determination of the odour concentration in terms of European odour units ( $\text{ou}_\text{E}/\text{m}^3$ ) in accordance with the British Standard for Olfactometry BS EN 13725. The analysis was conducted using Olfasense's internal quality management procedures which are accredited by the UK accreditation service (UKAS).
  - Determination of the hydrogen sulphide ( $\text{H}_2\text{S}$ ) concentration using a calibrated Jerome gold film analyser.  $\text{H}_2\text{S}$  readings was conducted onsite.
- Collected OCU outlet samples were analysed for the additional following criteria:
  - Offensiveness (Hedonic tone) using Olfasense's standardised in-house procedure based on NVN 2818<sup>3</sup> (non-accredited analysis).
  - Odour character using Olfasense's in-house analysis procedure (non-accredited analysis).

<sup>3</sup> NVN 2818:2004 - *Odour quality - Sensory determination of the hedonic tone of an odour using an olfactometer.*

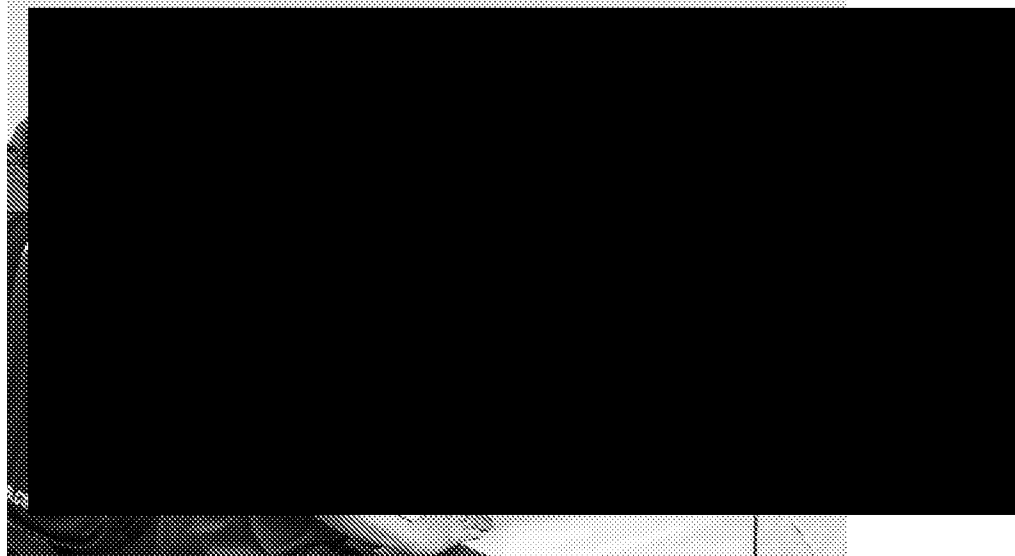
- Measurements of the airflow and temperature at each point source sample location were conducted in accordance with Olfasense's UKAS accredited procedure, based on ISO 10780<sup>4</sup>, to determine the flow rate of odours at each associated location.

## 2.2 Analysis Techniques

### 2.2.1 Odour concentration analysis

Odour analysis was conducted by olfactometry using a state of the art TO-Evolution™ olfactometer in full accordance with the procedures defined in EN 13725<sup>5</sup>, using 4 to 6 no. qualified and trained odour panellists.

Figure 1: Olfactometer in use with 6 assessors



### 2.2.2 Hydrogen sulphide analysis

Sulphide analysis was conducted using a Jerome hydrogen sulphide analyser. Although this instrument is designed for hydrogen sulphide detection and claims to be compound specific, experience indicates it is subject to significant interference from organic sulphide compounds such as DMS, mercaptans etc and hence was applied as a semi quantitative indicator for sulphide based VOCs in this study. A relatively low detection threshold (approximately 0.5 ppb for H<sub>2</sub>S by Jerome analyser) was employed in the study, the human nose is still a more sensitive detector and can detect some odorous compounds at sub part per trillion (ppt) level.

### 2.2.3 Hedonic tone analysis

Hedonic tone analysis using an in-house method based on the Dutch standard NVN 2818. The measurements were performed in combination with the odour concentration measurements with the samples presented to a panel at between five and seven different concentration (dilution)

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<sup>4</sup> ISO 10780:1991 - *Stationary source emissions: Measurement of velocity and volume flowrate of gas streams in ducts*. Where flow measurement locations were not compliant with ISO 10780 the uncertainty of airflow measurement results cannot be quantified.

<sup>5</sup> Analysis was conducted within 30 hours of sample collection.



levels. At each presentation step (varying sample dilutions), the members of a panel of assessors were asked to indicate the perception of hedonic tone as a value from a nine-point hedonic tone scale:

- +4      Extremely pleasant
- 0        Neither pleasant, nor unpleasant
- -4      Extremely unpleasant

The hedonic analysis results illustrate the relationship between odour strength and hedonic tone (un)pleasantness. At each concentration level, the mean of the values for hedonic tone of all panel members are calculated and plotted against the odour concentration in  $\text{ou}_E/\text{m}^3$  (log). From this, the concentrations at which the odour was received as mildly offensive ( $H = -1$ ) were calculated.

#### 2.2.4 Character Analysis

Character analysis was undertaken using a naïve panel using predefined odour descriptors to aid in standardisation of language used by the assessors. Each panellist was asked to select descriptors which matched the odour perceived by individual panel members from the wheel. The responses were then collated and primary / secondary descriptors were identified on the basis of their frequency of selection.

In addition to the panel assessment, a consultant assessment was undertaken using Olfasense staff with direct experience of the different odours typically associated with waste water treatment processes.

### 3 Presentation of results

The following section presents the results of the odour survey. Additional and replicate results can be found in Annex B.

#### 3.1 Odour measurement results

Table 2: Results of area odour measurements

| Location                              | Geomean odour emission rate (ou <sub>E</sub> /m <sup>2</sup> /s) | Mean H <sub>2</sub> S concentration (ppb) |
|---------------------------------------|------------------------------------------------------------------|-------------------------------------------|
| Final settlement tank                 | 0.6                                                              | 3                                         |
| Aeration lane start (~2 m from start) | 17.4                                                             | 15                                        |
| Aeration lane end (~40 m from start)  | 0.6                                                              | 3                                         |

Table 3: Results of point source odour measurements

| Location                       | Geomean odour concentration (ou <sub>E</sub> /m <sup>3</sup> ) | Mean H <sub>2</sub> S concentration (ppb) |
|--------------------------------|----------------------------------------------------------------|-------------------------------------------|
| Left Main OCU inlet airstream  | 13,768                                                         | 1,090                                     |
| Right Main OCU inlet airstream | 12,212                                                         | 1,650                                     |
| Main OCU outlet                | 4,398                                                          | 92                                        |
| Imported sludge OCU outlet     | 402                                                            | 68                                        |

#### 3.2 Hedonic and character results

Table 4: Results of hedonic and character analysis

| Location                       | Hedonic score @ H = -1 <sup>6</sup> | Character descriptors                |                                   |
|--------------------------------|-------------------------------------|--------------------------------------|-----------------------------------|
|                                |                                     | Primary                              | Secondary                         |
| Imported sludge OCU            | 6.8                                 | Synthetic, Sharp                     | Earthy                            |
| Main OCU                       | 5.3                                 | Medicinal, Synthetic, Sharp, Solvent | Earthy, Vegetal/Stale, Wastewater |
| Main OCU consultant descriptor |                                     | Scrubber chemicals (bleach like)     | Process odours (effluent based)   |

The hedonic tone of an odour is inherently influenced by the concentration at which it is considered. For most odours, the hedonic tone gradually decreases (i.e. becomes more unpleasant) as the odour concentration increases.

The odour impact criteria presented in the Environment Agency H4 document<sup>7</sup> reference 'most offensive', 'moderately offensive' and 'less offensive' odours. The hedonic tone of an odour influences the offensiveness but the offensiveness itself is not itself a directly measurable

<sup>6</sup> Stage at which odours become mildly offensive.

<sup>7</sup> H4 Odour Management, Published by the Environment Agency, March 2011



characteristic<sup>8</sup>. However, typically the lower the concentration at which an odour is perceived to be mildly unpleasant, the more offensive the odour.

A common method of using this data is to compare various sources at a site (or between sites) to demonstrate if a particular odour source is more or less offensive than others. However, as a broad rule of thumb, in Olfasens's experience very annoying odours tend to reach a hedonic tone value of  $H = -1$  at concentrations below  $5 \text{ ou}_E/\text{m}^3$ .

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<sup>8</sup> The offensiveness of an odour includes its hedonic tone. Offensiveness takes account of exposure and the attributes that determine nuisance sensitivity whereas hedonic tone is measured in a laboratory situation aimed simply at "like" or "dislike".

## Annex A: Sampling and analysis techniques

### A.1.1 Sample collection for odour analysis

Air samples from each source were collected using standardised techniques based on the European Standard for Olfactometry BS EN 13725. For hood & point sources, samples were collected using the 'lung principle' as illustrated in Figure 2 & Figure 3.

Figure 2: Sampling methods for point sources conducted at Ford WwTW.

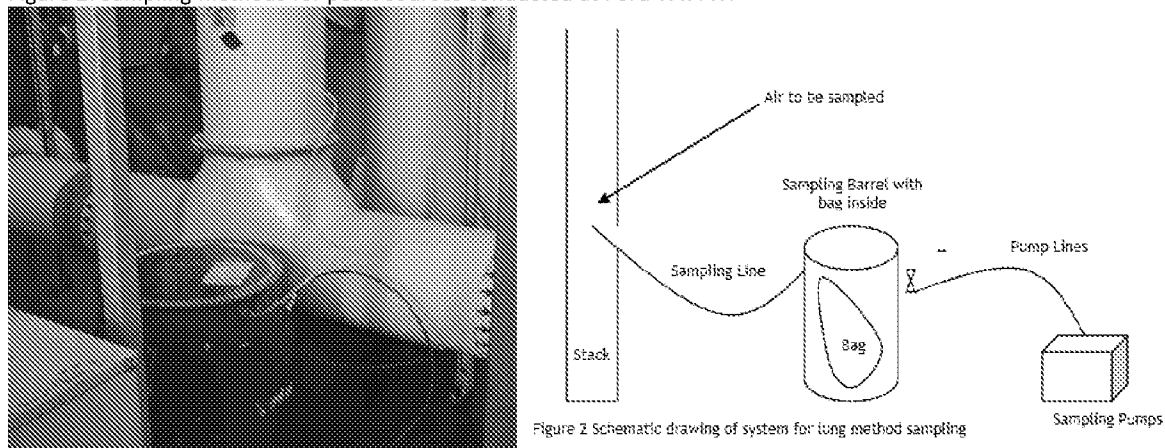
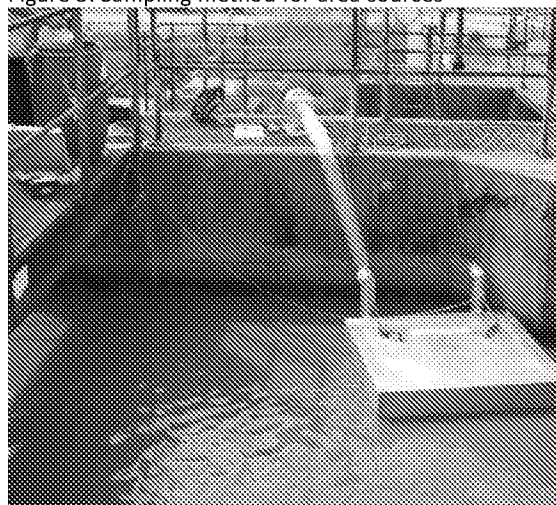


Figure 3: Sampling method for area sources



### A.1.2 Airflow measurement

Air flow measurements were conducted using anemometers/pitot tubes in accordance with the standard ISO 10780 or BS EN 16911<sup>9</sup>.

<sup>9</sup> BS EN 16911-1:2013. *Stationary source emissions. Manual and automatic determination of velocity and volume flow rate in ducts. Manual reference method.*

## Annex B: Breakdown of analysis results

Table 5: Replicate odour concentration results of odour survey

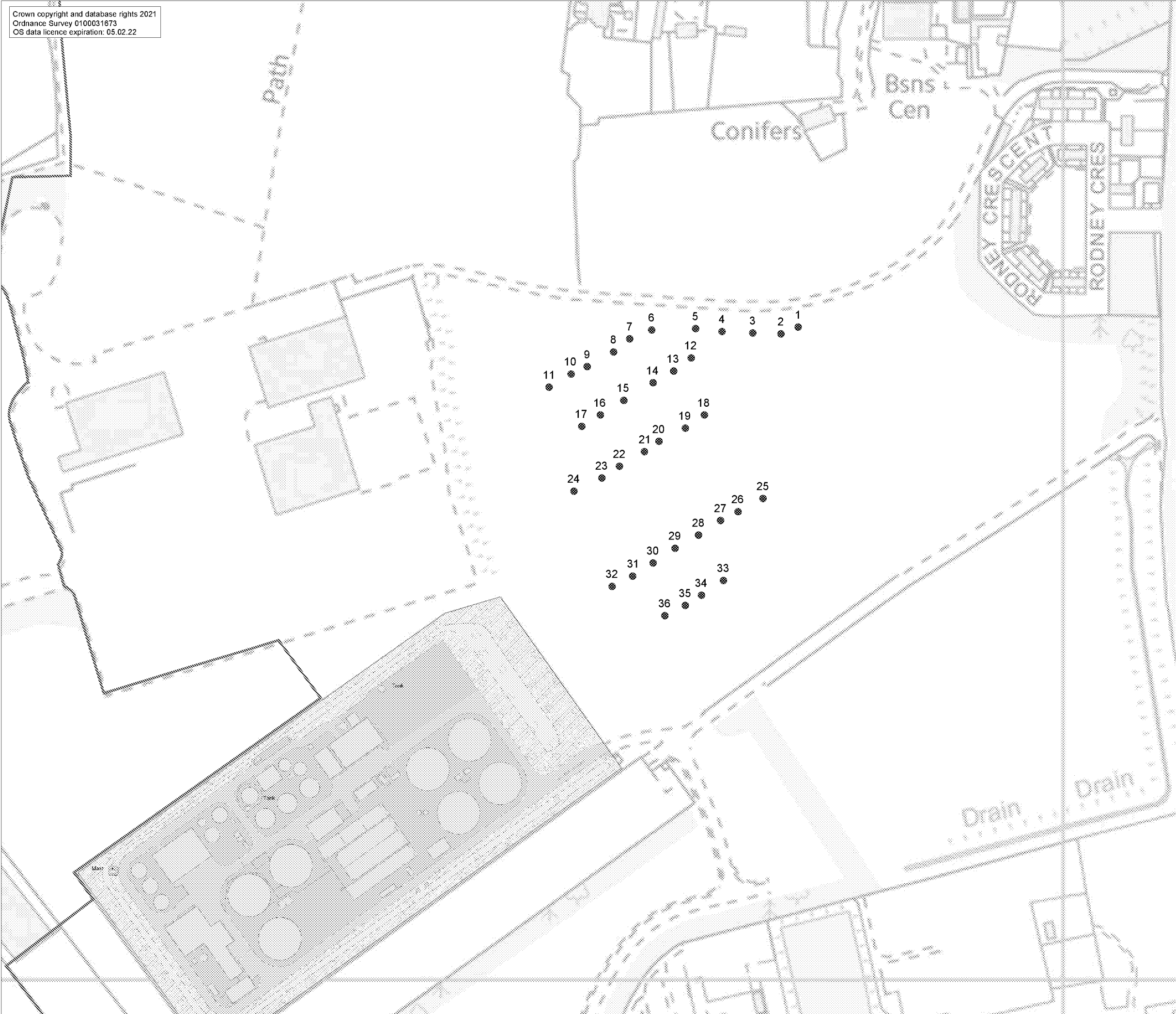
| Replicate      | Odour emission rate (ou <sub>E</sub> /m <sup>2</sup> /s) |                     |                   | Odour concentration (ou <sub>E</sub> /m <sup>3</sup> ) |                                |                            |                 |
|----------------|----------------------------------------------------------|---------------------|-------------------|--------------------------------------------------------|--------------------------------|----------------------------|-----------------|
|                | Final settlement tank                                    | Aeration lane start | Aeration lane end | Left Main OCU inlet airstream                          | Right Main OCU inlet airstream | Imported sludge OCU outlet | Main OCU outlet |
| Replicate 1    | 0.8                                                      | 16.0                | 0.7               | 16,057                                                 | 12,563                         | 509                        | 3,199           |
| Replicate 2    | 0.5                                                      | 17.9                | 0.6               | 11,805                                                 | 11,871                         | 317                        | 7,000           |
| Replicate 3    | -                                                        | 18.3                | 0.7               | -                                                      | -                              | -                          | 7,155           |
| Replicate 4    | -                                                        | -                   | -                 | -                                                      | -                              | -                          | 7,021           |
| Replicate 5    | -                                                        | -                   | -                 | -                                                      | -                              | -                          | 1,569           |
| Replicate 6    | -                                                        | -                   | -                 | -                                                      | -                              | -                          | 4,099           |
| <b>Geomean</b> | <b>0.6</b>                                               | <b>17.4</b>         | <b>0.6</b>        | <b>13,768</b>                                          | <b>12,212</b>                  | <b>402</b>                 | <b>4,398</b>    |
| Duct temp (°C) | -                                                        | -                   | -                 | 25.6                                                   | 24.9                           | 21.5                       | 20.7            |

Table 6: Replicate hydrogen sulphide concentration (ppb) results of odour survey

| Replicate   | Hydrogen sulphide concentration (ppb) |               |                        |                               |                                |                            |                 |
|-------------|---------------------------------------|---------------|------------------------|-------------------------------|--------------------------------|----------------------------|-----------------|
|             | Final settlement tank                 | Aeration lane | Aeration lane (anoxic) | Left Main OCU inlet airstream | Right Main OCU inlet airstream | Imported sludge OCU outlet | Main OCU outlet |
| Replicate 1 | 3.0                                   | 13.5          | 3.0                    | 1250                          | 1700                           | 70                         | 120             |
| Replicate 2 | 3.0                                   | 14.0          | 3.0                    | 930                           | 1600                           | 65                         | 170             |
| Replicate 3 | -                                     | 17.5          | 3.0                    | -                             | -                              | -                          | 60              |
| Replicate 4 | -                                     | -             | -                      | -                             | -                              | -                          | 64              |
| Replicate 5 | -                                     | -             | -                      | -                             | -                              | -                          | 57              |
| Replicate 6 | -                                     | -             | -                      | -                             | -                              | -                          | 80              |
| <b>Mean</b> | <b>3.0</b>                            | <b>15.0</b>   | <b>3.0</b>             | <b>1090.0</b>                 | <b>1650.0</b>                  | <b>67.5</b>                | <b>91.8</b>     |

## Appendix B – Walkover Surveys: Locations

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OS data licence expiration: 05.02.22



NOTES

LEGEND

SITE BOUNDARY

WALKOVER POINTS

SITE

Ford Airfield

PROJECT

Air Quality Assessment

DRAWING TITLE

Walkover 1

DRAWING NUMBER

AQ1

REVISION

0

SCALE

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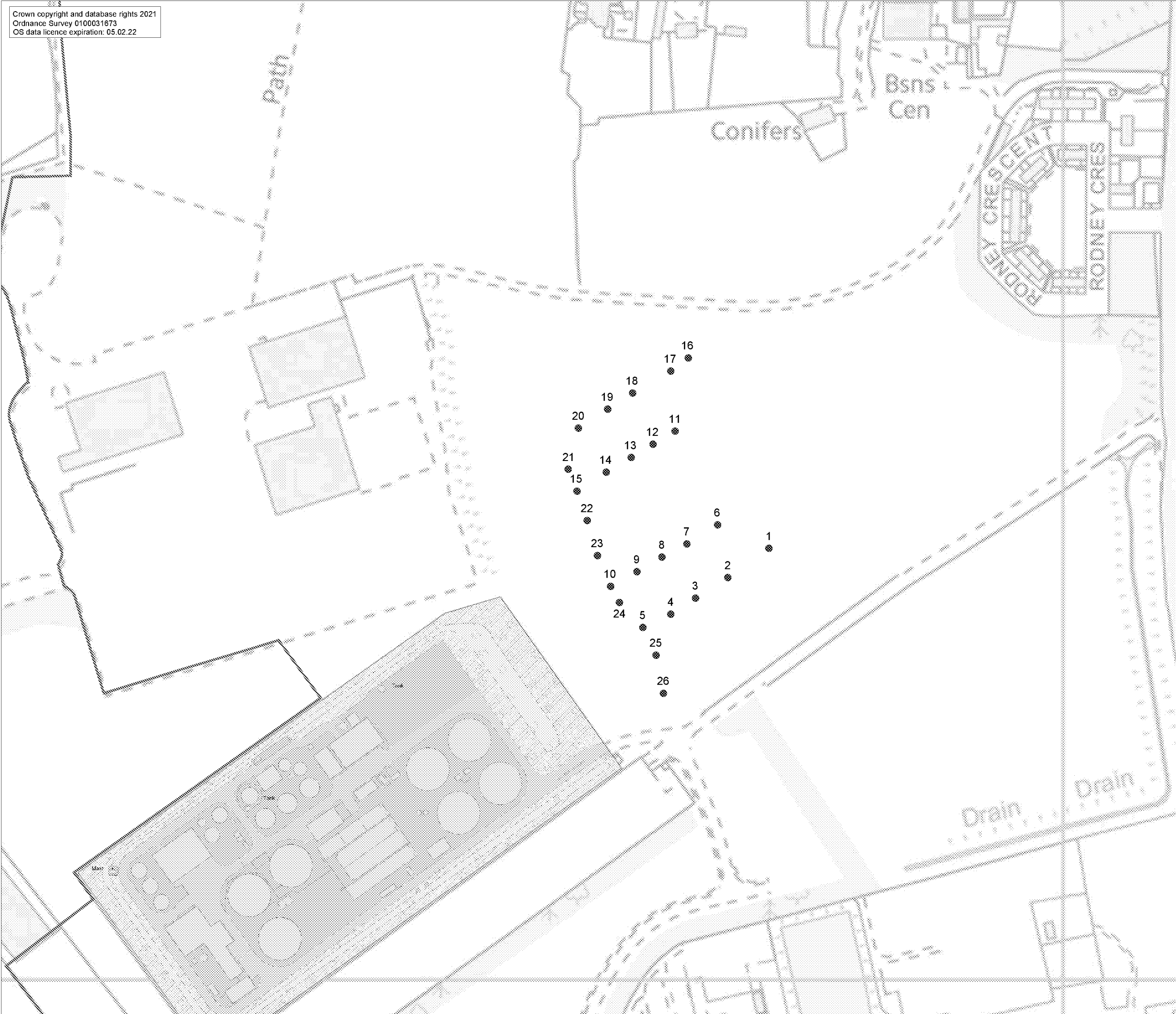
DATE

14.05.2021

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Ordnance Survey 0100031673  
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NOTES

LEGEND

SITE BOUNDARY

WALKOVER POINTS

N

E

S

W

SITE

Ford Airfield

PROJECT

Air Quality Assessment

DRAWING TITLE

Walkover 2

DRAWING NUMBER

AQ2

REVISION

0

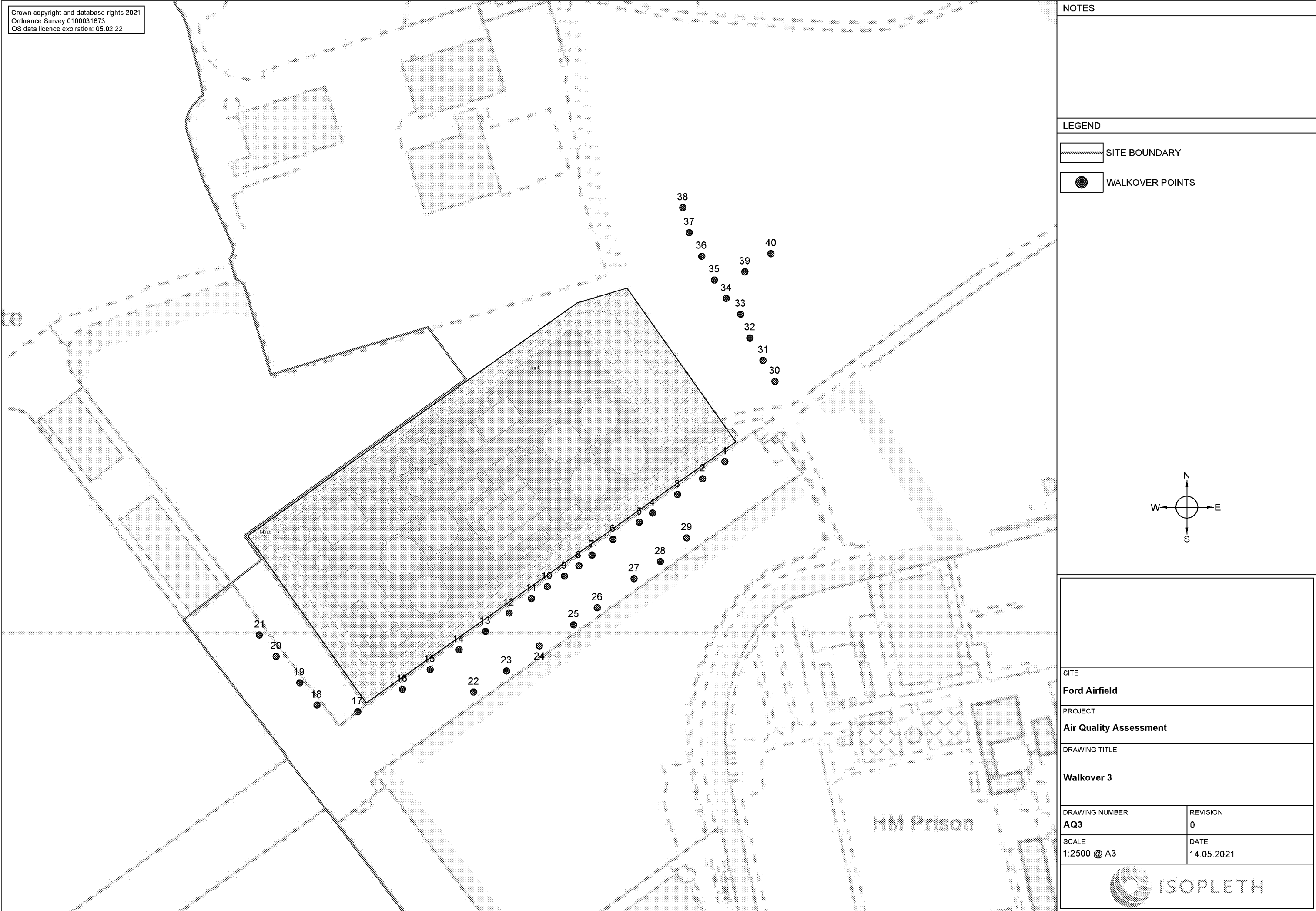
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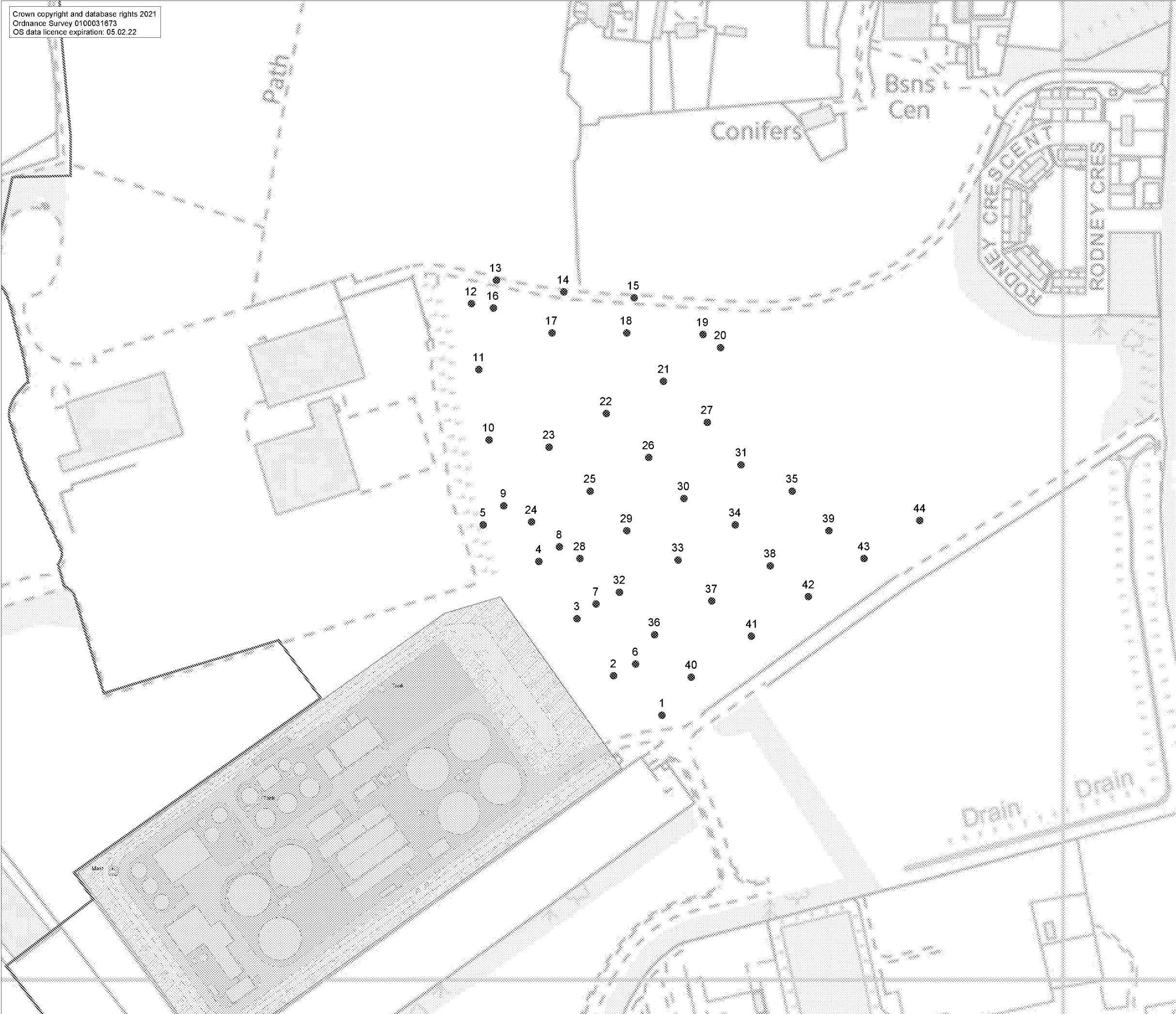
DATE

14.05.2021

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NOTES

LEGEND

SITE BOUNDARY

WALKOVER POINTS

SITE

Ford Airfield

PROJECT

Air Quality Assessment

DRAWING TITLE

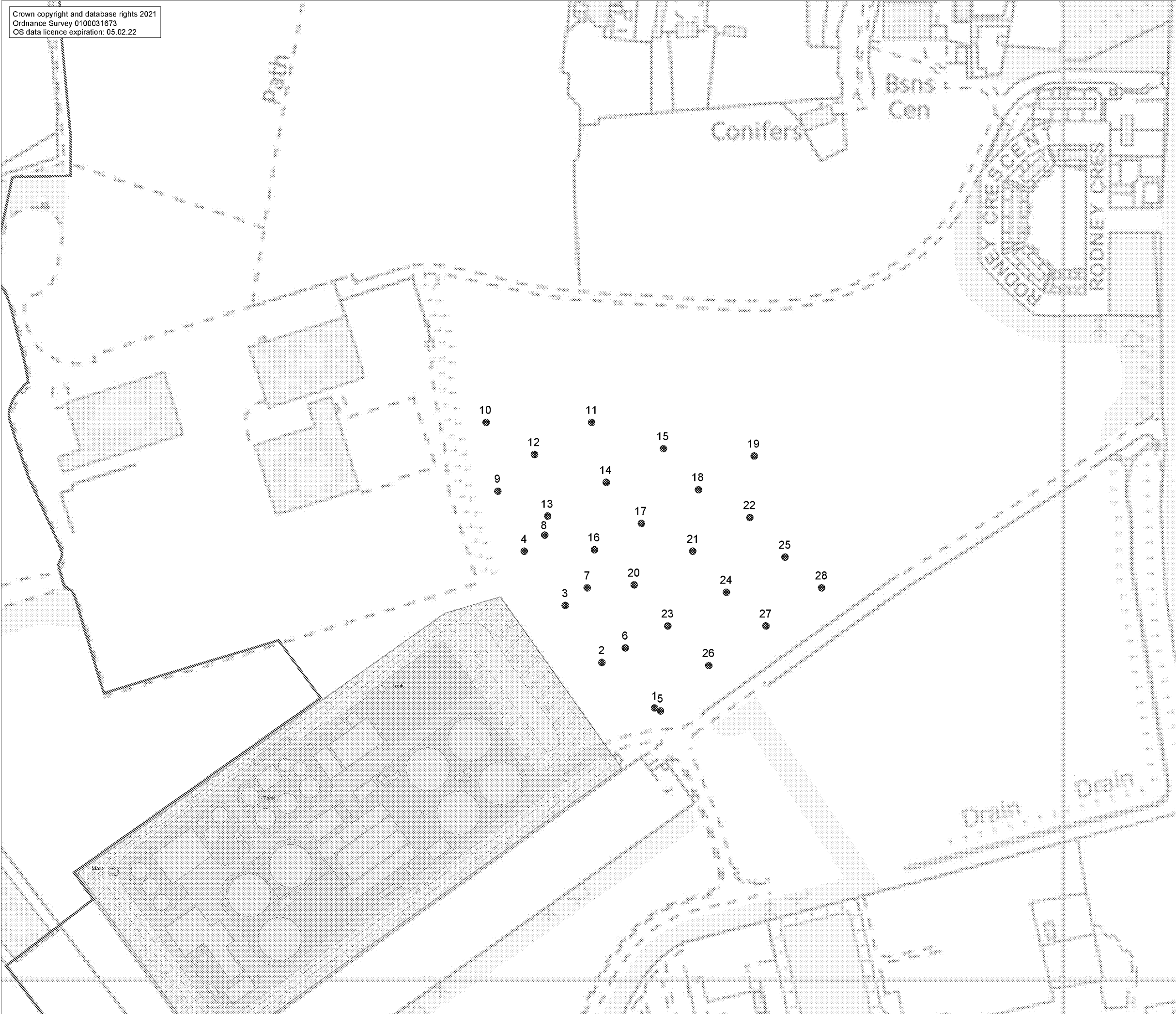
Walkover 4

|                |            |
|----------------|------------|
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| SCALE          | DATE       |
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NOTES

LEGEND

SITE BOUNDARY

WALKOVER POINTS

N

W

E

S

SITE

Ford Airfield

PROJECT

Air Quality Assessment

DRAWING TITLE

Walkover 5

DRAWING NUMBER

AQ5

REVISION

0

SCALE

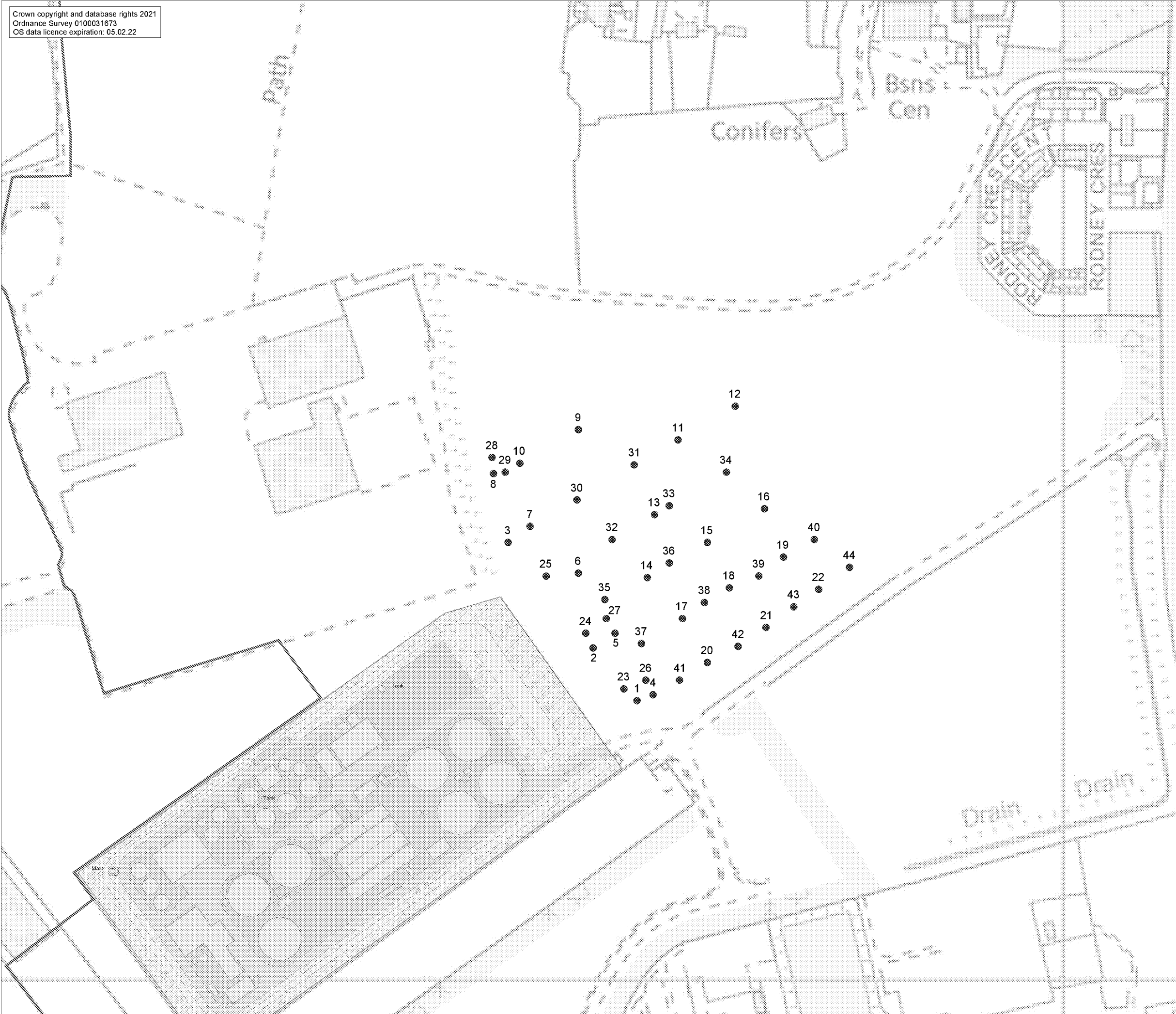
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DATE

14.05.2021

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OS data licence expiration: 05.02.22



NOTES

LEGEND

SITE BOUNDARY

WALKOVER POINTS

SITE

Ford Airfield

PROJECT

Air Quality Assessment

DRAWING TITLE

Walkover 6

DRAWING NUMBER

AQ6

REVISION

0

SCALE

1:2500 @ A3

DATE

14.05.2021

## Appendix C – Dispersion Modelling Inputs

| ID  | Name          | X        | Y        | Z<br>(m<br>AoD) | Specific<br>emission | Height<br>(m) | Width<br>(m) | Length<br>(m) | Angle<br>(deg) | Area<br>(m²) |
|-----|---------------|----------|----------|-----------------|----------------------|---------------|--------------|---------------|----------------|--------------|
| AL1 | Aeration Lane | 499491.9 | 103089.2 | 4               | 4.0                  | 1             | 9.85         | 51.3          | 54.8           | 505.3        |
| AL2 | Aeration Lane | 499511.4 | 103061.3 | 4               | 4.0                  | 1             | 9.85         | 51.3          | 54.8           | 505.3        |
| AL3 | Aeration Lane | 499505.1 | 103085.1 | 4               | 4.0                  | 1             | 11.25        | 44.8          | 54.5           | 504.0        |
| AL4 | Aeration Lane | 499511.6 | 103076.0 | 4               | 4.0                  | 1             | 11.25        | 44.8          | 54.5           | 504.0        |

| ID   | Name                  | X        | Y        | Z<br>(m AoD) | Specific<br>emission | Height<br>(m) | Radius<br>(m) | Area<br>(m²) |
|------|-----------------------|----------|----------|--------------|----------------------|---------------|---------------|--------------|
| FST1 | Final Settlement Tank | 499566.9 | 103143.2 | 4            | 0.6                  | 1             | 14.5          | 660.52       |
| FST2 | Final Settlement Tank | 499595.7 | 103163.3 | 4            | 0.6                  | 1             | 14.5          | 660.52       |
| FST3 | Final Settlement Tank | 499588.2 | 103113.2 | 4            | 0.6                  | 1             | 14.5          | 660.52       |
| FST4 | Final Settlement Tank | 499616.8 | 103133.6 | 4            | 0.6                  | 1             | 14.5          | 660.52       |

| ID   | Name             | X        | Y        | Z<br>(m AoD) | Emission<br>(ou <sub>e</sub> /s) | Height<br>(m) | Width<br>(m) | Length<br>(m) | Angle<br>(deg) |
|------|------------------|----------|----------|--------------|----------------------------------|---------------|--------------|---------------|----------------|
| OC1  | Main OC          | 499430.3 | 103091.0 | 4            | 18786.8                          | 16            | 14.85        | 5.44          | 1.0            |
| ISOC | Import Sludge OC | 499398.2 | 103059.2 | 4            | 3320.0                           | 4             | 14.85        | 8.45          | 0.5            |

## **Appendix D – Dispersion Modelling Results**



NOTES

LEGEND

SITE BOUNDARY

CONTOUR @ 1.5ouE/m3

CONTOUR @ 3ouE/m3

CONTOUR @ 5ouE/m3

OFFSET BOUNDARY

SITE

Ford Airfield

PROJECT

Air Quality Assessment

DRAWING TITLE

Scenario 6 Average

DRAWING NUMBER

AQ3

REVISION

0

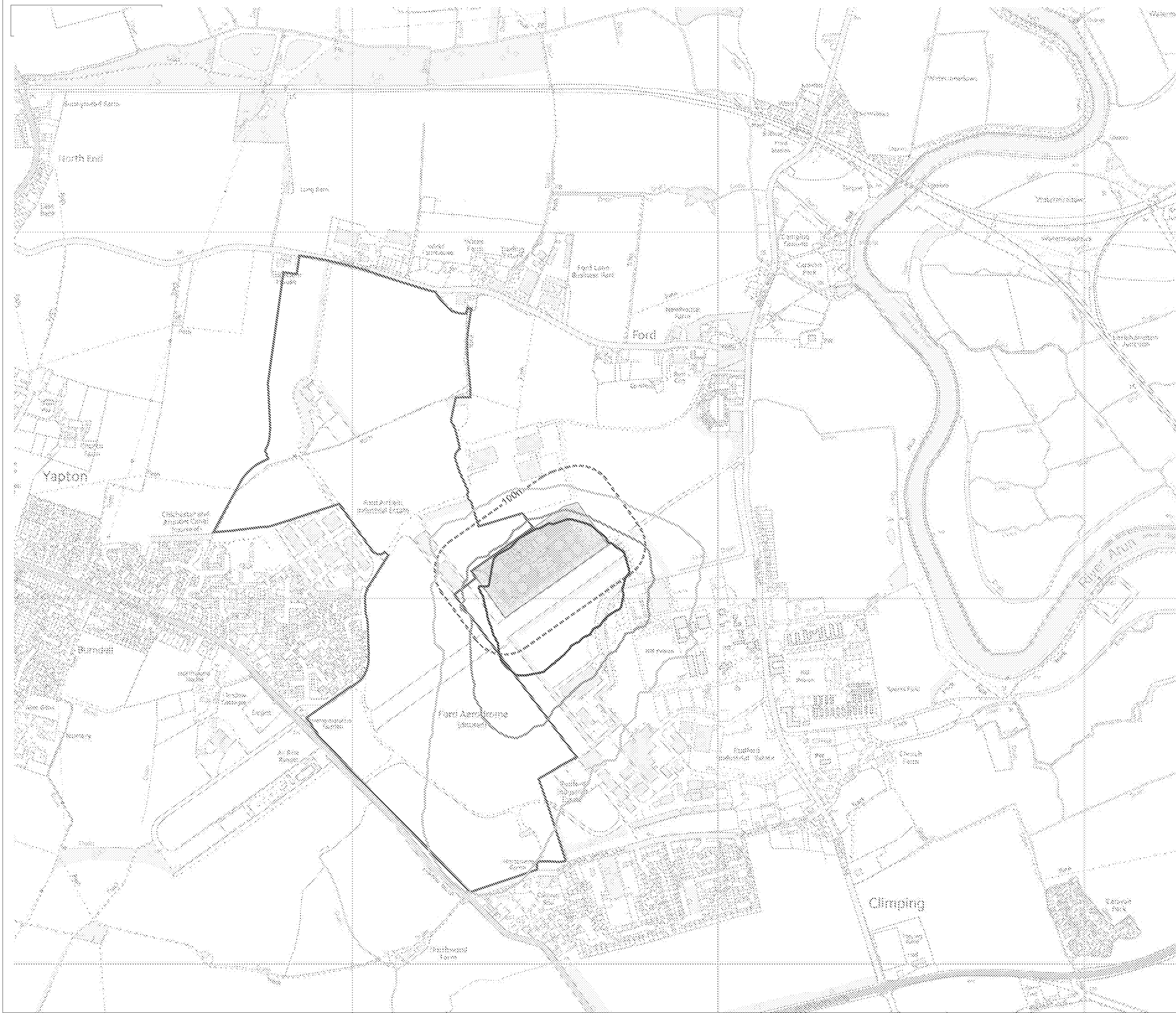
SCALE

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DATE

09.07.2021

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NOTES

LEGEND

SITE BOUNDARY

CONTOUR @ 1.5ouE/m3

CONTOUR @ 3ouE/m3

CONTOUR @ 5ouE/m3

OFFSET BOUNDARY

SITE

Ford Airfield

PROJECT

Air Quality Assessment

DRAWING TITLE

Scenario 6 Max

DRAWING NUMBER

AQ4

REVISION

0

SCALE

1:10000 @ A3

DATE

09.07.2021

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## Appendix E – Walkover Surveys: Full Results

### Survey 1

| Sample  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------|---|---|---|---|---|---|---|---|---|----|
| 1       | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 3 | 3  |
| 2       | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 3 | 3  |
| 3       | 0 | 0 | 2 | 0 | 0 | 3 | 3 | 3 | 3 | 3  |
| 4       | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3  |
| 5       | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3  |
| 6       | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3  |
| 7       | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3  |
| 8       | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3  |
| 9       | 0 | 0 | 0 | 0 | 3 | 3 | 3 | 3 | 3 | 3  |
| 10      | 0 | 0 | 0 | 2 | 0 | 3 | 3 | 3 | 3 | 3  |
| 11      | 0 | 0 | 0 | 2 | 0 | 3 | 3 | 0 | 0 | 0  |
| 12      | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0  |
| 13      | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0  |
| 14      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 15      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 16      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 17      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 18      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 19      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 20      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 21      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 22      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 23      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 24      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 25      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 26      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 27      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 28      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 29      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 30      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| average | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1  |
| maximum | 0 | 0 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3  |

|          |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|
| total    | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| positive | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| % +ve    | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

| Sample  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 0  | 3  | 0  | 3  | 3  | 3  | 0  | 0  | 3  | 0  |
| 2       | 0  | 3  | 3  | 3  | 3  | 3  | 0  | 0  | 3  | 0  |
| 3       | 2  | 3  | 3  | 3  | 3  | 3  | 0  | 3  | 3  | 0  |
| 4       | 2  | 3  | 3  | 3  | 3  | 3  | 2  | 3  | 3  | 3  |
| 5       | 2  | 3  | 3  | 3  | 3  | 3  | 2  | 3  | 3  | 3  |
| 6       | 0  | 3  | 3  | 3  | 3  | 3  | 0  | 3  | 0  | 3  |
| 7       | 0  | 3  | 3  | 0  | 0  | 0  | 0  | 3  | 0  | 3  |
| 8       | 0  | 3  | 3  | 0  | 0  | 0  | 0  | 3  | 0  | 3  |
| 9       | 0  | 3  | 3  | 0  | 0  | 0  | 0  | 3  | 0  | 3  |
| 10      | 0  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 11      | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 12      | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 13      | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 14      | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 15      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 16      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 17      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 18      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 19      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 20      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 21      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 22      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 23      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 24      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 25      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 26      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 27      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 28      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 29      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 30      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| average | 0  | 1  | 1  | 1  | 1  | 1  | 0  | 1  | 1  | 1  |
| maximum | 2  | 3  | 3  | 3  | 3  | 3  | 2  | 3  | 3  | 3  |

1

|          |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|
| total    | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| positive | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| % +ve    | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

| Sample  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 4  | 4  | 3  | 0  | 0  | 2  | 0  | 0  | 1  | 0  |
| 2       | 4  | 4  | 3  | 0  | 0  | 0  | 0  | 0  | 1  | 0  |
| 3       | 4  | 4  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 4       | 4  | 4  | 3  | 4  | 0  | 0  | 0  | 3  | 0  | 0  |
| 5       | 4  | 4  | 3  | 4  | 0  | 0  | 0  | 3  | 0  | 3  |
| 6       | 4  | 4  | 3  | 4  | 0  | 0  | 0  | 3  | 0  | 3  |
| 7       | 4  | 4  | 3  | 4  | 0  | 0  | 0  | 3  | 0  | 3  |
| 8       | 4  | 4  | 3  | 4  | 0  | 0  | 0  | 3  | 0  | 3  |
| 9       | 4  | 4  | 3  | 4  | 0  | 0  | 0  | 3  | 0  | 3  |
| 10      | 4  | 4  | 3  | 4  | 0  | 0  | 0  | 3  | 0  | 3  |
| 11      | 4  | 4  | 3  | 4  | 0  | 0  | 0  | 3  | 0  | 3  |
| 12      | 4  | 4  | 3  | 4  | 0  | 0  | 0  | 0  | 0  | 3  |
| 13      | 4  | 4  | 3  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 14      | 0  | 4  | 3  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 15      | 0  | 4  | 3  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 16      | 0  | 4  | 0  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 17      | 0  | 4  | 0  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 18      | 0  | 4  | 0  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 19      | 0  | 0  | 0  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 20      | 0  | 0  | 0  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 21      | 0  | 0  | 0  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 22      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 23      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 24      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 25      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 26      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 27      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 28      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 29      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 30      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| average | 2  | 2  | 2  | 2  | 0  | 0  | 0  | 1  | 0  | 1  |
| maximum | 4  | 4  | 3  | 4  | 0  | 2  | 0  | 3  | 1  | 3  |

|          |     |     |    |     |    |    |    |    |    |    |
|----------|-----|-----|----|-----|----|----|----|----|----|----|
| total    | 30  | 30  | 30 | 30  | 30 | 30 | 30 | 30 | 30 | 30 |
| negative | 17  | 12  | 30 | 12  | 30 | 30 | 30 | 30 | 30 | 30 |
| positive | 13  | 18  | 0  | 18  | 0  | 0  | 0  | 0  | 0  | 0  |
| % +ve    | 43% | 60% | 0% | 60% | 0% | 0% | 0% | 0% | 0% | 0% |

| Sample  | 31 | 32 | 33 | 34 | 35 | 36 |
|---------|----|----|----|----|----|----|
| 1       | 3  | 0  | 0  | 0  | 3  | 3  |
| 2       | 3  | 0  | 0  | 0  | 3  | 3  |
| 3       | 3  | 0  | 0  | 0  | 3  | 3  |
| 4       | 3  | 0  | 0  | 0  | 3  | 3  |
| 5       | 3  | 0  | 0  | 0  | 0  | 0  |
| 6       | 3  | 0  | 0  | 0  | 0  | 0  |
| 7       | 3  | 3  | 0  | 0  | 0  | 0  |
| 8       | 0  | 3  | 0  | 0  | 0  | 0  |
| 9       | 0  | 3  | 0  | 0  | 0  | 0  |
| 10      | 0  | 3  | 0  | 0  | 0  | 0  |
| 11      | 0  | 3  | 0  | 0  | 0  | 0  |
| 12      | 0  | 3  | 0  | 0  | 0  | 0  |
| 13      | 0  | 3  | 0  | 0  | 0  | 0  |
| 14      | 0  | 0  | 0  | 0  | 0  | 0  |
| 15      | 0  | 0  | 0  | 0  | 0  | 0  |
| 16      | 0  | 0  | 0  | 0  | 0  | 0  |
| 17      | 0  | 0  | 0  | 0  | 0  | 0  |
| 18      | 0  | 0  | 0  | 0  | 0  | 0  |
| 19      | 0  | 0  | 0  | 0  | 0  | 0  |
| 20      | 0  | 0  | 0  | 0  | 0  | 0  |
| 21      | 0  | 0  | 0  | 0  | 0  | 0  |
| 22      | 0  | 0  | 0  | 0  | 0  | 0  |
| 23      | 0  | 0  | 0  | 0  | 0  | 0  |
| 24      | 0  | 0  | 0  | 0  | 0  | 0  |
| 25      | 0  | 0  | 0  | 0  | 0  | 0  |
| 26      | 0  | 0  | 0  | 0  | 0  | 0  |
| 27      | 0  | 0  | 0  | 0  | 0  | 0  |
| 28      | 0  | 0  | 0  | 0  | 0  | 0  |
| 29      | 0  | 0  | 0  | 0  | 0  | 0  |
| 30      | 0  | 0  | 0  | 0  | 0  | 0  |
| average | 1  | 1  | 0  | 0  | 0  | 0  |
| maximum | 3  | 3  | 0  | 0  | 3  | 3  |

|          |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|
| total    | 30 | 30 | 30 | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 30 | 30 | 30 |
| positive | 0  | 0  | 0  | 0  | 0  | 0  |

|       |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|
| % +ve | 0% | 0% | 0% | 0% | 0% | 0% |
|-------|----|----|----|----|----|----|

## Survey 2

| Sample  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------|---|---|---|---|---|---|---|---|---|----|
| 1       | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 3 | 4  |
| 2       | 0 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 3 | 4  |
| 3       | 0 | 0 | 0 | 3 | 4 | 0 | 2 | 0 | 3 | 3  |
| 4       | 0 | 0 | 0 | 2 | 4 | 0 | 2 | 0 | 3 | 3  |
| 5       | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 3 | 3  |
| 6       | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 2 | 3 | 3  |
| 7       | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 2 | 4 | 4  |
| 8       | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 4 | 4  |
| 9       | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 2 | 4  |
| 10      | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0  |
| 11      | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 0  |
| 12      | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0  |
| 13      | 0 | 0 | 0 | 2 | 0 | 3 | 3 | 0 | 0 | 4  |
| 14      | 0 | 0 | 0 | 3 | 0 | 3 | 3 | 0 | 0 | 2  |
| 15      | 0 | 0 | 0 | 3 | 0 | 0 | 3 | 0 | 3 | 4  |
| 16      | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 0 | 3 | 4  |
| 17      | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 3 | 4  |
| 18      | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 0 | 3 | 4  |
| 19      | 0 | 0 | 0 | 2 | 4 | 0 | 0 | 2 | 4 | 4  |
| 20      | 0 | 0 | 2 | 3 | 3 | 0 | 0 | 2 | 3 | 4  |
| 21      | 0 | 0 | 2 | 3 | 3 | 3 | 0 | 0 | 4 | 4  |
| 22      | 0 | 0 | 2 | 3 | 3 | 3 | 0 | 0 | 4 | 3  |
| 23      | 0 | 0 | 3 | 3 | 3 | 0 | 0 | 0 | 4 | 3  |
| 24      | 0 | 0 | 3 | 0 | 4 | 0 | 0 | 0 | 2 | 4  |
| 25      | 0 | 0 | 2 | 0 | 4 | 0 | 0 | 0 | 2 | 4  |
| 26      | 0 | 0 | 2 | 0 | 4 | 0 | 2 | 0 | 0 | 4  |
| 27      | 0 | 0 | 0 | 2 | 4 | 0 | 2 | 0 | 0 | 4  |
| 28      | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 2  |
| 29      | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 3  |
| 30      | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 4  |
| average | 0 | 0 | 1 | 2 | 3 | 0 | 1 | 0 | 2 | 3  |
| maximum | 0 | 0 | 3 | 3 | 4 | 3 | 3 | 2 | 4 | 4  |

|          |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|
| total    | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 30 | 18 | 30 | 30 | 30 | 24 | 12 |

|          |    |    |    |    |     |    |    |    |     |     |
|----------|----|----|----|----|-----|----|----|----|-----|-----|
| positive | 0  | 0  | 0  | 0  | 12  | 0  | 0  | 0  | 6   | 18  |
| % +ve    | 0% | 0% | 0% | 0% | 40% | 0% | 0% | 0% | 20% | 60% |

| Sample  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 2       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 3       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 4       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 5       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 6       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 7       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 8       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 9       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 10      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 11      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 12      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 13      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 14      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 15      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 16      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 17      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 18      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 19      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 20      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 21      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 22      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 23      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 24      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 25      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 26      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 27      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 28      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 29      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 30      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| average | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| maximum | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |

|          |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|
| total    | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| positive | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |

|       |    |    |    |    |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|----|----|----|----|
| % +ve | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
|-------|----|----|----|----|----|----|----|----|----|----|

| Sample  | 21 | 22 | 23 | 24 | 25 | 26 |
|---------|----|----|----|----|----|----|
| 1       | 0  | 0  | 3  | 4  | 3  | 0  |
| 2       | 0  | 0  | 3  | 4  | 3  | 0  |
| 3       | 0  | 0  | 3  | 4  | 3  | 3  |
| 4       | 0  | 0  | 2  | 4  | 4  | 3  |
| 5       | 0  | 0  | 2  | 4  | 4  | 3  |
| 6       | 0  | 3  | 2  | 4  | 4  | 2  |
| 7       | 0  | 3  | 3  | 2  | 4  | 3  |
| 8       | 0  | 3  | 0  | 0  | 4  | 0  |
| 9       | 0  | 3  | 0  | 0  | 4  | 0  |
| 10      | 0  | 3  | 0  | 0  | 4  | 0  |
| 11      | 0  | 3  | 0  | 3  | 4  | 4  |
| 12      | 0  | 0  | 0  | 3  | 3  | 4  |
| 13      | 0  | 0  | 0  | 4  | 3  | 4  |
| 14      | 0  | 0  | 0  | 4  | 2  | 4  |
| 15      | 0  | 0  | 0  | 4  | 2  | 4  |
| 16      | 0  | 0  | 0  | 4  | 0  | 4  |
| 17      | 0  | 0  | 3  | 4  | 0  | 4  |
| 18      | 0  | 0  | 2  | 4  | 0  | 4  |
| 19      | 0  | 2  | 0  | 4  | 0  | 4  |
| 20      | 0  | 2  | 0  | 4  | 0  | 3  |
| 21      | 0  | 2  | 0  | 3  | 0  | 3  |
| 22      | 0  | 4  | 0  | 3  | 4  | 3  |
| 23      | 0  | 4  | 0  | 4  | 4  | 3  |
| 24      | 0  | 3  | 3  | 4  | 3  | 4  |
| 25      | 0  | 0  | 3  | 4  | 4  | 4  |
| 26      | 0  | 0  | 3  | 4  | 3  | 2  |
| 27      | 0  | 0  | 3  | 2  | 3  | 2  |
| 28      | 0  | 0  | 2  | 2  | 4  | 2  |
| 29      | 0  | 0  | 2  | 4  | 4  | 4  |
| 30      | 0  | 0  | 3  | 4  | 4  | 3  |
| average | 0  | 1  | 1  | 3  | 3  | 3  |
| maximum | 0  | 4  | 3  | 4  | 4  | 4  |

|          |    |    |    |     |     |     |
|----------|----|----|----|-----|-----|-----|
| total    | 30 | 30 | 30 | 30  | 30  | 30  |
| negative | 30 | 28 | 30 | 10  | 16  | 18  |
| positive | 0  | 2  | 0  | 20  | 14  | 12  |
| % +ve    | 0% | 7% | 0% | 67% | 47% | 40% |

### Survey 3

| Sample  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------|---|---|---|---|---|---|---|---|---|----|
| 1       | 0 | 0 | 0 | 3 | 0 | 3 | 4 | 4 | 4 | 4  |
| 2       | 0 | 0 | 0 | 3 | 0 | 3 | 4 | 4 | 4 | 4  |
| 3       | 0 | 0 | 0 | 0 | 3 | 3 | 4 | 4 | 4 | 4  |
| 4       | 0 | 0 | 0 | 0 | 3 | 3 | 4 | 4 | 4 | 4  |
| 5       | 0 | 0 | 0 | 0 | 3 | 2 | 4 | 4 | 4 | 4  |
| 6       | 0 | 0 | 0 | 0 | 3 | 2 | 4 | 3 | 4 | 3  |
| 7       | 0 | 0 | 0 | 3 | 3 | 4 | 4 | 3 | 4 | 3  |
| 8       | 0 | 0 | 0 | 3 | 2 | 4 | 4 | 3 | 4 | 4  |
| 9       | 0 | 0 | 0 | 3 | 2 | 4 | 4 | 4 | 4 | 4  |
| 10      | 0 | 0 | 0 | 3 | 3 | 4 | 4 | 4 | 4 | 4  |
| 11      | 0 | 0 | 0 | 3 | 3 | 4 | 4 | 4 | 4 | 4  |
| 12      | 0 | 0 | 0 | 3 | 3 | 4 | 2 | 4 | 4 | 4  |
| 13      | 0 | 0 | 0 | 3 | 3 | 4 | 3 | 4 | 4 | 4  |
| 14      | 0 | 0 | 0 | 3 | 3 | 4 | 4 | 4 | 4 | 4  |
| 15      | 0 | 0 | 0 | 2 | 3 | 4 | 4 | 4 | 4 | 4  |
| 16      | 0 | 0 | 0 | 2 | 3 | 4 | 4 | 4 | 4 | 4  |
| 17      | 0 | 0 | 0 | 3 | 3 | 4 | 4 | 4 | 4 | 4  |
| 18      | 0 | 0 | 0 | 3 | 4 | 4 | 4 | 4 | 4 | 3  |
| 19      | 0 | 0 | 0 | 3 | 4 | 4 | 4 | 4 | 4 | 3  |
| 20      | 0 | 0 | 0 | 3 | 3 | 4 | 0 | 4 | 4 | 4  |
| 21      | 0 | 0 | 0 | 3 | 3 | 4 | 0 | 4 | 4 | 4  |
| 22      | 0 | 0 | 0 | 2 | 4 | 4 | 4 | 4 | 4 | 4  |
| 23      | 0 | 0 | 0 | 0 | 3 | 4 | 4 | 4 | 4 | 4  |
| 24      | 0 | 0 | 0 | 3 | 3 | 2 | 4 | 4 | 4 | 4  |
| 25      | 0 | 0 | 0 | 3 | 3 | 2 | 4 | 4 | 3 | 4  |
| 26      | 0 | 0 | 0 | 0 | 3 | 4 | 4 | 4 | 2 | 4  |
| 27      | 0 | 0 | 0 | 0 | 3 | 4 | 4 | 4 | 3 | 4  |
| 28      | 0 | 0 | 0 | 3 | 3 | 4 | 4 | 4 | 4 | 4  |
| 29      | 0 | 0 | 0 | 3 | 3 | 4 | 4 | 4 | 4 | 4  |
| 30      | 0 | 0 | 0 | 3 | 3 | 4 | 4 | 4 | 4 | 4  |
| average | 0 | 0 | 0 | 2 | 3 | 4 | 4 | 4 | 4 | 4  |
| maximum | 0 | 0 | 0 | 3 | 4 | 4 | 4 | 4 | 4 | 4  |

|          |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|
| total    | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 30 | 27 | 8  | 4  | 3  | 3  | 4  |
| positive | 0  | 0  | 0  | 0  | 3  | 22 | 26 | 27 | 27 | 26 |

|       |    |    |    |    |     |     |     |     |     |     |
|-------|----|----|----|----|-----|-----|-----|-----|-----|-----|
| % +ve | 0% | 0% | 0% | 0% | 10% | 73% | 87% | 90% | 90% | 87% |
|-------|----|----|----|----|-----|-----|-----|-----|-----|-----|

| Sample  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 4  | 4  | 3  | 2  | 0  | 0  | 0  | 0  | 0  | 0  |
| 2       | 4  | 4  | 3  | 2  | 0  | 0  | 0  | 0  | 0  | 0  |
| 3       | 4  | 4  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 4       | 4  | 3  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 5       | 4  | 3  | 2  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 6       | 4  | 3  | 2  | 2  | 0  | 0  | 0  | 0  | 0  | 0  |
| 7       | 4  | 3  | 2  | 2  | 0  | 0  | 0  | 0  | 0  | 0  |
| 8       | 4  | 4  | 3  | 2  | 0  | 0  | 0  | 0  | 0  | 0  |
| 9       | 4  | 4  | 3  | 2  | 0  | 0  | 0  | 0  | 0  | 0  |
| 10      | 4  | 4  | 3  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 11      | 4  | 4  | 3  | 3  | 2  | 0  | 0  | 0  | 0  | 0  |
| 12      | 4  | 4  | 3  | 4  | 2  | 0  | 0  | 0  | 0  | 0  |
| 13      | 4  | 4  | 3  | 3  | 2  | 0  | 0  | 0  | 0  | 0  |
| 14      | 4  | 4  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 15      | 4  | 4  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 16      | 4  | 4  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 17      | 3  | 2  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 18      | 3  | 2  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 19      | 3  | 0  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 20      | 3  | 3  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 21      | 4  | 3  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 22      | 4  | 4  | 3  | 3  | 2  | 0  | 0  | 0  | 0  | 0  |
| 23      | 4  | 4  | 3  | 3  | 2  | 0  | 0  | 0  | 0  | 0  |
| 24      | 4  | 4  | 3  | 3  | 3  | 0  | 0  | 0  | 0  | 0  |
| 25      | 4  | 4  | 4  | 3  | 3  | 0  | 0  | 0  | 0  | 0  |
| 26      | 4  | 4  | 4  | 3  | 2  | 0  | 0  | 0  | 0  | 0  |
| 27      | 4  | 4  | 3  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 28      | 4  | 4  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 29      | 4  | 4  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 30      | 4  | 4  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| average | 4  | 4  | 3  | 3  | 1  | 0  | 0  | 0  | 0  | 0  |
| maximum | 4  | 4  | 4  | 4  | 3  | 0  | 0  | 0  | 0  | 0  |

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|          |     |     |    |     |    |    |    |    |    |    |
|----------|-----|-----|----|-----|----|----|----|----|----|----|
| total    | 30  | 30  | 30 | 30  | 30 | 30 | 30 | 30 | 30 | 30 |
| negative | 4   | 9   | 28 | 27  | 30 | 30 | 30 | 30 | 30 | 30 |
| positive | 26  | 21  | 2  | 3   | 0  | 0  | 0  | 0  | 0  | 0  |
| % +ve    | 87% | 70% | 7% | 10% | 0% | 0% | 0% | 0% | 0% | 0% |

| Sample  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 0  | 0  | 0  | 0  | 3  | 2  | 3  | 0  | 0  | 0  |
| 2       | 0  | 0  | 0  | 0  | 3  | 2  | 3  | 0  | 0  | 0  |
| 3       | 0  | 0  | 0  | 0  | 2  | 2  | 3  | 0  | 0  | 0  |
| 4       | 0  | 0  | 0  | 0  | 2  | 2  | 3  | 3  | 0  | 0  |
| 5       | 0  | 0  | 0  | 0  | 2  | 3  | 2  | 3  | 0  | 0  |
| 6       | 0  | 0  | 0  | 0  | 0  | 3  | 2  | 3  | 0  | 0  |
| 7       | 0  | 0  | 0  | 2  | 0  | 3  | 3  | 3  | 0  | 0  |
| 8       | 0  | 0  | 0  | 3  | 0  | 3  | 3  | 3  | 0  | 0  |
| 9       | 0  | 0  | 0  | 3  | 0  | 3  | 3  | 3  | 0  | 0  |
| 10      | 0  | 0  | 0  | 0  | 0  | 3  | 0  | 3  | 0  | 0  |
| 11      | 0  | 0  | 0  | 0  | 3  | 2  | 0  | 0  | 0  | 0  |
| 12      | 0  | 0  | 0  | 0  | 3  | 2  | 3  | 3  | 0  | 0  |
| 13      | 0  | 0  | 0  | 0  | 0  | 2  | 3  | 2  | 0  | 0  |
| 14      | 0  | 0  | 0  | 2  | 0  | 2  | 3  | 2  | 0  | 0  |
| 15      | 0  | 0  | 0  | 2  | 0  | 3  | 2  | 3  | 0  | 0  |
| 16      | 0  | 0  | 0  | 2  | 0  | 3  | 2  | 3  | 0  | 0  |
| 17      | 0  | 0  | 0  | 2  | 3  | 2  | 2  | 3  | 0  | 0  |
| 18      | 0  | 0  | 0  | 2  | 3  | 2  | 3  | 3  | 0  | 0  |
| 19      | 0  | 0  | 0  | 2  | 2  | 0  | 3  | 3  | 0  | 0  |
| 20      | 0  | 0  | 0  | 3  | 3  | 0  | 3  | 0  | 0  | 0  |
| 21      | 0  | 0  | 0  | 3  | 3  | 0  | 3  | 2  | 0  | 0  |
| 22      | 0  | 0  | 0  | 2  | 0  | 2  | 3  | 2  | 0  | 0  |
| 23      | 0  | 0  | 0  | 2  | 0  | 3  | 3  | 2  | 0  | 0  |
| 24      | 0  | 0  | 0  | 0  | 0  | 3  | 3  | 2  | 0  | 0  |
| 25      | 0  | 0  | 0  | 0  | 0  | 3  | 0  | 2  | 0  | 0  |
| 26      | 0  | 0  | 0  | 0  | 2  | 3  | 0  | 2  | 0  | 0  |
| 27      | 0  | 0  | 0  | 0  | 3  | 3  | 0  | 2  | 0  | 0  |
| 28      | 0  | 0  | 0  | 2  | 3  | 3  | 2  | 2  | 0  | 0  |
| 29      | 0  | 0  | 0  | 2  | 3  | 3  | 0  | 3  | 0  | 0  |
| 30      | 0  | 0  | 0  | 2  | 2  | 3  | 2  | 3  | 0  | 0  |
| average | 0  | 0  | 0  | 1  | 2  | 2  | 2  | 2  | 0  | 0  |
| maximum | 0  | 0  | 0  | 3  | 3  | 3  | 3  | 3  | 0  | 0  |

|          |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|
| total    | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| positive | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| % +ve    | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

| Sample  | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 2       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 3       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 4       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 5       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 6       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 7       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 8       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 9       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 10      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 11      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 12      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 13      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 14      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 15      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 16      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 17      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 18      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 19      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 20      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 21      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 22      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 23      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 24      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 25      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 26      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 27      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 28      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 29      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 30      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| average | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| maximum | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |

|          |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|
| total    | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| positive | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| % +ve    | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

#### Survey 4

| Sample  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------|---|---|---|---|---|---|---|---|---|----|
| 1       | 0 | 2 | 4 | 4 | 3 | 0 | 4 | 4 | 4 | 3  |
| 2       | 0 | 2 | 4 | 3 | 3 | 0 | 4 | 4 | 3 | 2  |
| 3       | 0 | 0 | 4 | 4 | 3 | 0 | 4 | 4 | 3 | 2  |
| 4       | 0 | 0 | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 3  |
| 5       | 0 | 0 | 3 | 2 | 0 | 2 | 4 | 4 | 4 | 3  |
| 6       | 0 | 0 | 4 | 2 | 2 | 0 | 4 | 2 | 3 | 3  |
| 7       | 0 | 0 | 4 | 4 | 4 | 0 | 4 | 3 | 0 | 3  |
| 8       | 0 | 0 | 4 | 4 | 3 | 0 | 4 | 4 | 0 | 3  |
| 9       | 0 | 0 | 4 | 4 | 3 | 0 | 3 | 0 | 0 | 2  |
| 10      | 0 | 0 | 4 | 4 | 4 | 0 | 3 | 4 | 2 | 2  |
| 11      | 0 | 0 | 4 | 4 | 4 | 0 | 4 | 4 | 2 | 0  |
| 12      | 0 | 0 | 3 | 5 | 3 | 0 | 4 | 4 | 4 | 0  |
| 13      | 0 | 0 | 2 | 5 | 4 | 2 | 4 | 4 | 4 | 0  |
| 14      | 0 | 2 | 4 | 4 | 2 | 0 | 4 | 4 | 4 | 0  |
| 15      | 0 | 0 | 4 | 4 | 0 | 0 | 4 | 4 | 4 | 0  |
| 16      | 0 | 0 | 4 | 4 | 0 | 0 | 4 | 4 | 0 | 0  |
| 17      | 0 | 0 | 4 | 4 | 3 | 0 | 4 | 4 | 0 | 3  |
| 18      | 0 | 0 | 4 | 3 | 4 | 0 | 4 | 4 | 0 | 3  |
| 19      | 0 | 0 | 4 | 3 | 4 | 0 | 4 | 4 | 4 | 3  |
| 20      | 0 | 0 | 4 | 5 | 4 | 0 | 4 | 4 | 3 | 0  |
| 21      | 0 | 0 | 4 | 5 | 4 | 0 | 4 | 4 | 3 | 0  |
| 22      | 0 | 0 | 5 | 4 | 3 | 0 | 4 | 4 | 3 | 0  |
| 23      | 0 | 0 | 5 | 4 | 3 | 0 | 2 | 4 | 0 | 0  |
| 24      | 0 | 0 | 5 | 4 | 4 | 0 | 2 | 4 | 0 | 0  |
| 25      | 0 | 0 | 5 | 4 | 4 | 0 | 4 | 4 | 2 | 0  |
| 26      | 0 | 0 | 5 | 4 | 2 | 0 | 4 | 4 | 4 | 0  |
| 27      | 0 | 0 | 5 | 4 | 3 | 0 | 4 | 4 | 4 | 3  |
| 28      | 0 | 2 | 3 | 4 | 4 | 0 | 4 | 4 | 4 | 3  |
| 29      | 0 | 2 | 4 | 4 | 4 | 0 | 4 | 0 | 4 | 4  |
| 30      | 0 | 0 | 4 | 4 | 4 | 0 | 4 | 0 | 4 | 2  |
| average | 0 | 0 | 4 | 4 | 3 | 0 | 4 | 4 | 3 | 2  |
| maximum | 0 | 2 | 5 | 5 | 4 | 2 | 4 | 4 | 4 | 4  |

|          |    |    |     |     |     |    |     |     |     |    |
|----------|----|----|-----|-----|-----|----|-----|-----|-----|----|
| total    | 30 | 30 | 30  | 30  | 30  | 30 | 30  | 30  | 30  | 30 |
| negative | 30 | 30 | 4   | 5   | 16  | 30 | 4   | 5   | 17  | 29 |
| positive | 0  | 0  | 26  | 25  | 14  | 0  | 26  | 25  | 13  | 1  |
| % +ve    | 0% | 0% | 87% | 83% | 47% | 0% | 87% | 83% | 43% | 3% |

| Sample  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 2       | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 3       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 4       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 5       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 6       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 7       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 8       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 9       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 10      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 11      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 12      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 13      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 14      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 15      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 16      | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 17      | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 18      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 19      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 20      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 21      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 22      | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 23      | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 24      | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 25      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 26      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 27      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 28      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 29      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 30      | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| average | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| maximum | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |

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|          |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|
| total    | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| positive | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| % +ve    | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

| Sample  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 0  | 2  | 3  | 4  | 3  | 0  | 0  | 4  | 3  | 0  |
| 2       | 0  | 2  | 4  | 4  | 3  | 0  | 0  | 4  | 3  | 0  |
| 3       | 0  | 2  | 3  | 2  | 3  | 0  | 0  | 3  | 2  | 0  |
| 4       | 0  | 0  | 3  | 4  | 3  | 0  | 0  | 3  | 2  | 0  |
| 5       | 0  | 0  | 3  | 4  | 2  | 0  | 0  | 3  | 3  | 0  |
| 6       | 0  | 0  | 0  | 3  | 2  | 0  | 0  | 3  | 3  | 0  |
| 7       | 0  | 0  | 0  | 3  | 2  | 0  | 0  | 3  | 0  | 0  |
| 8       | 0  | 0  | 0  | 3  | 3  | 0  | 0  | 4  | 3  | 0  |
| 9       | 0  | 0  | 3  | 4  | 3  | 0  | 0  | 4  | 4  | 0  |
| 10      | 0  | 0  | 4  | 4  | 4  | 0  | 0  | 3  | 4  | 0  |
| 11      | 0  | 3  | 4  | 3  | 3  | 0  | 0  | 3  | 2  | 0  |
| 12      | 0  | 3  | 4  | 2  | 4  | 0  | 0  | 3  | 2  | 0  |
| 13      | 0  | 3  | 4  | 2  | 4  | 0  | 0  | 3  | 3  | 0  |
| 14      | 0  | 4  | 4  | 0  | 2  | 0  | 0  | 3  | 4  | 0  |
| 15      | 0  | 2  | 4  | 0  | 0  | 0  | 0  | 4  | 3  | 0  |
| 16      | 0  | 2  | 3  | 0  | 0  | 0  | 0  | 2  | 3  | 0  |
| 17      | 0  | 0  | 3  | 3  | 0  | 0  | 0  | 2  | 3  | 0  |
| 18      | 0  | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 2  | 0  |
| 19      | 0  | 0  | 0  | 4  | 0  | 0  | 0  | 0  | 4  | 0  |
| 20      | 0  | 0  | 0  | 4  | 2  | 0  | 0  | 3  | 4  | 0  |
| 21      | 0  | 0  | 0  | 4  | 2  | 0  | 0  | 4  | 4  | 0  |
| 22      | 0  | 0  | 2  | 2  | 0  | 0  | 0  | 4  | 4  | 0  |
| 23      | 0  | 0  | 3  | 2  | 0  | 0  | 0  | 4  | 0  | 0  |
| 24      | 0  | 0  | 2  | 2  | 0  | 0  | 0  | 3  | 0  | 0  |
| 25      | 0  | 0  | 2  | 0  | 3  | 0  | 0  | 3  | 2  | 0  |
| 26      | 0  | 2  | 0  | 0  | 2  | 0  | 0  | 2  | 2  | 0  |
| 27      | 0  | 2  | 4  | 0  | 3  | 0  | 0  | 2  | 4  | 0  |
| 28      | 0  | 0  | 4  | 3  | 4  | 0  | 0  | 3  | 4  | 0  |
| 29      | 0  | 0  | 4  | 3  | 3  | 0  | 0  | 3  | 2  | 0  |
| 30      | 0  | 0  | 3  | 3  | 0  | 0  | 0  | 2  | 3  | 0  |
| average | 0  | 1  | 2  | 3  | 2  | 0  | 0  | 3  | 3  | 0  |
| maximum | 0  | 4  | 4  | 4  | 4  | 0  | 0  | 4  | 4  | 0  |

|          |    |    |     |     |     |    |    |     |     |    |
|----------|----|----|-----|-----|-----|----|----|-----|-----|----|
| total    | 30 | 30 | 30  | 30  | 30  | 30 | 30 | 30  | 30  | 30 |
| negative | 30 | 29 | 20  | 21  | 26  | 30 | 30 | 22  | 21  | 30 |
| positive | 0  | 1  | 10  | 9   | 4   | 0  | 0  | 8   | 9   | 0  |
| % +ve    | 0% | 3% | 33% | 30% | 13% | 0% | 0% | 27% | 30% | 0% |

| Sample  | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 2       | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 3       | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 4       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 5       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 6       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 7       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 8       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 9       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 10      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 11      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 12      | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 13      | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 14      | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 15      | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 16      | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 17      | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 18      | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 19      | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 20      | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 21      | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 22      | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 23      | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 24      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 25      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 26      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 27      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 28      | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 29      | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 30      | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| average | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| maximum | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |

|          |    |    |    |    |    |    |    |    |    |    |
|----------|----|----|----|----|----|----|----|----|----|----|
| total    | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| positive | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| % +ve    | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% |

| Sample  | 41 | 42 | 43 | 44 |
|---------|----|----|----|----|
| 1       | 0  | 0  | 0  | 0  |
| 2       | 0  | 0  | 0  | 0  |
| 3       | 0  | 0  | 0  | 0  |
| 4       | 0  | 0  | 0  | 0  |
| 5       | 0  | 0  | 0  | 0  |
| 6       | 0  | 0  | 0  | 0  |
| 7       | 0  | 0  | 0  | 0  |
| 8       | 0  | 0  | 0  | 0  |
| 9       | 0  | 0  | 0  | 0  |
| 10      | 0  | 0  | 0  | 0  |
| 11      | 0  | 0  | 0  | 0  |
| 12      | 0  | 0  | 0  | 0  |
| 13      | 0  | 0  | 0  | 0  |
| 14      | 0  | 0  | 0  | 0  |
| 15      | 0  | 0  | 0  | 0  |
| 16      | 0  | 0  | 0  | 0  |
| 17      | 0  | 0  | 0  | 0  |
| 18      | 0  | 0  | 0  | 0  |
| 19      | 0  | 0  | 0  | 0  |
| 20      | 0  | 0  | 0  | 0  |
| 21      | 0  | 0  | 0  | 0  |
| 22      | 0  | 0  | 0  | 0  |
| 23      | 0  | 0  | 0  | 0  |
| 24      | 0  | 0  | 0  | 0  |
| 25      | 0  | 0  | 0  | 0  |
| 26      | 0  | 0  | 0  | 0  |
| 27      | 0  | 0  | 0  | 0  |
| 28      | 0  | 0  | 0  | 0  |
| 29      | 0  | 0  | 0  | 0  |
| 30      | 0  | 0  | 0  | 0  |
| average | 0  | 0  | 0  | 0  |
| maximum | 0  | 0  | 0  | 0  |

|          |    |    |    |    |
|----------|----|----|----|----|
| total    | 30 | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 30 |
| positive | 0  | 0  | 0  | 0  |
| % +ve    | 0% | 0% | 0% | 0% |

## Survey 5

| Sample  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------|---|---|---|---|---|---|---|---|---|----|
| 1       | 4 | 0 | 2 | 3 | 0 | 4 | 3 | 2 | 0 | 0  |
| 2       | 3 | 0 | 2 | 3 | 0 | 3 | 3 | 2 | 0 | 0  |
| 3       | 3 | 2 | 0 | 4 | 0 | 4 | 3 | 4 | 0 | 0  |
| 4       | 4 | 3 | 0 | 4 | 3 | 4 | 2 | 4 | 0 | 0  |
| 5       | 4 | 4 | 0 | 4 | 4 | 2 | 4 | 4 | 0 | 0  |
| 6       | 4 | 4 | 0 | 4 | 4 | 0 | 4 | 4 | 0 | 0  |
| 7       | 3 | 4 | 0 | 2 | 4 | 0 | 3 | 4 | 0 | 0  |
| 8       | 2 | 4 | 3 | 0 | 4 | 3 | 0 | 4 | 0 | 0  |
| 9       | 0 | 4 | 4 | 0 | 4 | 4 | 0 | 3 | 0 | 2  |
| 10      | 0 | 4 | 4 | 0 | 4 | 3 | 0 | 3 | 0 | 2  |
| 11      | 0 | 3 | 4 | 0 | 4 | 4 | 3 | 4 | 0 | 2  |
| 12      | 4 | 3 | 4 | 0 | 2 | 4 | 4 | 4 | 0 | 0  |
| 13      | 4 | 0 | 3 | 3 | 4 | 4 | 4 | 3 | 0 | 0  |
| 14      | 4 | 0 | 0 | 3 | 4 | 4 | 4 | 2 | 0 | 0  |
| 15      | 4 | 2 | 0 | 0 | 3 | 2 | 4 | 0 | 0 | 0  |
| 16      | 4 | 3 | 0 | 0 | 2 | 4 | 3 | 0 | 0 | 0  |
| 17      | 4 | 3 | 0 | 0 | 0 | 4 | 3 | 0 | 0 | 0  |
| 18      | 4 | 4 | 4 | 0 | 0 | 2 | 2 | 0 | 0 | 2  |
| 19      | 2 | 4 | 4 | 0 | 0 | 0 | 3 | 0 | 0 | 2  |
| 20      | 2 | 4 | 4 | 0 | 0 | 4 | 4 | 0 | 0 | 0  |
| 21      | 3 | 4 | 3 | 0 | 2 | 4 | 4 | 0 | 0 | 0  |
| 22      | 3 | 4 | 4 | 0 | 3 | 3 | 4 | 0 | 0 | 0  |
| 23      | 3 | 4 | 0 | 3 | 4 | 3 | 4 | 0 | 0 | 0  |
| 24      | 2 | 4 | 0 | 4 | 3 | 4 | 4 | 0 | 0 | 0  |
| 25      | 0 | 4 | 0 | 4 | 4 | 4 | 3 | 3 | 0 | 0  |
| 26      | 0 | 3 | 0 | 4 | 4 | 4 | 0 | 3 | 0 | 0  |
| 27      | 0 | 3 | 2 | 3 | 2 | 4 | 0 | 3 | 0 | 0  |
| 28      | 0 | 4 | 3 | 2 | 0 | 3 | 0 | 4 | 0 | 0  |
| 29      | 0 | 3 | 4 | 0 | 0 | 3 | 2 | 3 | 0 | 0  |
| 30      | 0 | 2 | 4 | 0 | 0 | 4 | 0 | 2 | 0 | 0  |
| average | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 0 | 0  |
| maximum | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 2  |

|          |     |     |     |     |     |     |     |     |    |    |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|
| total    | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30  | 30 | 30 |
| negative | 19  | 15  | 20  | 23  | 18  | 13  | 19  | 21  | 30 | 30 |
| positive | 11  | 15  | 10  | 7   | 12  | 17  | 11  | 9   | 0  | 0  |
| % +ve    | 37% | 50% | 33% | 23% | 40% | 57% | 37% | 30% | 0% | 0% |

| Sample  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 0  | 0  | 0  | 0  | 0  | 3  | 0  | 0  | 0  | 0  |
| 2       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 3       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 4       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 5       | 0  | 0  | 0  | 0  | 0  | 3  | 0  | 0  | 0  | 2  |
| 6       | 0  | 0  | 0  | 0  | 0  | 3  | 0  | 0  | 0  | 2  |
| 7       | 0  | 0  | 0  | 0  | 0  | 2  | 0  | 0  | 0  | 2  |
| 8       | 0  | 0  | 2  | 0  | 0  | 3  | 0  | 0  | 0  | 4  |
| 9       | 0  | 0  | 2  | 0  | 0  | 4  | 0  | 0  | 0  | 4  |
| 10      | 0  | 0  | 0  | 0  | 0  | 4  | 0  | 0  | 0  | 4  |
| 11      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4  |
| 12      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 13      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4  |
| 14      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 15      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 16      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 17      | 0  | 0  | 0  | 0  | 0  | 0  | 2  | 0  | 0  | 0  |
| 18      | 0  | 0  | 0  | 0  | 0  | 0  | 2  | 0  | 0  | 0  |
| 19      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 20      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 21      | 0  | 0  | 2  | 0  | 0  | 3  | 0  | 0  | 0  | 0  |
| 22      | 0  | 0  | 0  | 0  | 0  | 3  | 0  | 0  | 0  | 0  |
| 23      | 0  | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 24      | 0  | 0  | 2  | 0  | 0  | 3  | 0  | 0  | 0  | 0  |
| 25      | 0  | 0  | 2  | 0  | 0  | 3  | 0  | 0  | 0  | 0  |
| 26      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 27      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 28      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 29      | 0  | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 30      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| average | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 1  |
| maximum | 0  | 0  | 2  | 0  | 0  | 4  | 2  | 0  | 0  | 4  |

1

|          |    |    |    |    |    |    |    |    |    |     |
|----------|----|----|----|----|----|----|----|----|----|-----|
| total    | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30  |
| negative | 30 | 30 | 30 | 30 | 30 | 28 | 30 | 30 | 30 | 25  |
| positive | 0  | 0  | 0  | 0  | 0  | 2  | 0  | 0  | 0  | 5   |
| % +ve    | 0% | 0% | 0% | 0% | 0% | 7% | 0% | 0% | 0% | 17% |

| Sample  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 |
|---------|----|----|----|----|----|----|----|----|
| 1       | 2  | 0  | 2  | 2  | 0  | 3  | 0  | 0  |
| 2       | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  |
| 3       | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  |
| 4       | 2  | 0  | 3  | 0  | 0  | 3  | 0  | 0  |
| 5       | 0  | 0  | 2  | 0  | 0  | 3  | 0  | 0  |
| 6       | 0  | 0  | 0  | 0  | 0  | 3  | 0  | 0  |
| 7       | 0  | 0  | 0  | 0  | 0  | 2  | 0  | 0  |
| 8       | 0  | 0  | 0  | 0  | 0  | 2  | 0  | 0  |
| 9       | 0  | 0  | 0  | 3  | 0  | 2  | 0  | 0  |
| 10      | 3  | 0  | 0  | 3  | 0  | 3  | 0  | 0  |
| 11      | 3  | 0  | 0  | 0  | 0  | 3  | 0  | 0  |
| 12      | 0  | 0  | 0  | 0  | 0  | 3  | 0  | 0  |
| 13      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 14      | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  |
| 15      | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  |
| 16      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 17      | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  |
| 18      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 19      | 0  | 0  | 2  | 0  | 0  | 3  | 0  | 0  |
| 20      | 0  | 0  | 2  | 0  | 0  | 4  | 0  | 0  |
| 21      | 0  | 0  | 2  | 0  | 0  | 4  | 0  | 0  |
| 22      | 0  | 0  | 4  | 0  | 0  | 3  | 0  | 0  |
| 23      | 0  | 0  | 4  | 2  | 0  | 2  | 0  | 0  |
| 24      | 2  | 0  | 3  | 3  | 0  | 4  | 0  | 0  |
| 25      | 0  | 0  | 0  | 2  | 0  | 4  | 0  | 0  |
| 26      | 0  | 0  | 0  | 3  | 0  | 3  | 0  | 0  |
| 27      | 0  | 0  | 2  | 0  | 0  | 0  | 0  | 0  |
| 28      | 3  | 0  | 2  | 0  | 0  | 0  | 0  | 0  |
| 29      | 3  | 0  | 2  | 0  | 0  | 0  | 0  | 0  |
| 30      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| average | 1  | 0  | 2  | 1  | 0  | 2  | 0  | 0  |
| maximum | 3  | 0  | 4  | 3  | 0  | 4  | 0  | 0  |

|          |    |    |    |    |    |     |    |    |
|----------|----|----|----|----|----|-----|----|----|
| total    | 30 | 30 | 30 | 30 | 30 | 30  | 30 | 30 |
| negative | 30 | 30 | 28 | 30 | 30 | 26  | 30 | 30 |
| positive | 0  | 0  | 2  | 0  | 0  | 4   | 0  | 0  |
| % +ve    | 0% | 0% | 7% | 0% | 0% | 13% | 0% | 0% |

## Survey 6

| Sample  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---------|---|---|---|---|---|---|---|---|---|----|
| 1       | 0 | 4 | 0 | 4 | 3 | 4 | 0 | 0 | 0 | 0  |
| 2       | 0 | 2 | 0 | 4 | 3 | 0 | 0 | 0 | 0 | 0  |
| 3       | 0 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0  |
| 4       | 0 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0  |
| 5       | 0 | 4 | 4 | 0 | 4 | 2 | 0 | 0 | 0 | 0  |
| 6       | 0 | 4 | 4 | 0 | 4 | 4 | 0 | 0 | 0 | 0  |
| 7       | 0 | 3 | 3 | 2 | 4 | 4 | 0 | 0 | 0 | 0  |
| 8       | 0 | 4 | 2 | 2 | 4 | 4 | 0 | 0 | 0 | 0  |
| 9       | 0 | 3 | 2 | 0 | 4 | 4 | 0 | 0 | 0 | 0  |
| 10      | 0 | 2 | 3 | 0 | 3 | 2 | 0 | 0 | 0 | 0  |
| 11      | 3 | 2 | 4 | 0 | 3 | 4 | 0 | 0 | 0 | 0  |
| 12      | 4 | 4 | 4 | 0 | 4 | 4 | 3 | 0 | 0 | 0  |
| 13      | 4 | 4 | 4 | 0 | 3 | 4 | 3 | 0 | 0 | 0  |
| 14      | 4 | 4 | 0 | 0 | 4 | 4 | 3 | 0 | 0 | 0  |
| 15      | 4 | 4 | 0 | 3 | 2 | 4 | 4 | 0 | 0 | 0  |
| 16      | 3 | 0 | 0 | 3 | 0 | 4 | 3 | 0 | 0 | 0  |
| 17      | 4 | 0 | 0 | 4 | 0 | 3 | 3 | 0 | 0 | 0  |
| 18      | 2 | 0 | 0 | 3 | 0 | 3 | 3 | 0 | 0 | 0  |
| 19      | 0 | 3 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 0  |
| 20      | 0 | 4 | 0 | 3 | 3 | 0 | 2 | 0 | 0 | 0  |
| 21      | 0 | 4 | 3 | 4 | 3 | 0 | 3 | 0 | 0 | 0  |
| 22      | 0 | 4 | 3 | 3 | 4 | 0 | 0 | 0 | 0 | 0  |
| 23      | 0 | 3 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0  |
| 24      | 0 | 4 | 4 | 0 | 4 | 3 | 0 | 0 | 0 | 0  |
| 25      | 3 | 4 | 3 | 0 | 4 | 3 | 0 | 0 | 0 | 0  |
| 26      | 3 | 2 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 0  |
| 27      | 0 | 4 | 0 | 0 | 2 | 4 | 2 | 0 | 0 | 0  |
| 28      | 0 | 4 | 0 | 0 | 2 | 3 | 2 | 0 | 0 | 0  |
| 29      | 0 | 4 | 4 | 0 | 2 | 3 | 2 | 0 | 0 | 0  |
| 30      | 0 | 4 | 4 | 0 | 4 | 3 | 0 | 0 | 0 | 0  |
| average | 1 | 3 | 2 | 1 | 3 | 3 | 1 | 0 | 0 | 0  |
| maximum | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 0 | 0 | 0  |

|          |     |     |     |     |     |     |    |    |    |    |
|----------|-----|-----|-----|-----|-----|-----|----|----|----|----|
| total    | 30  | 30  | 30  | 30  | 30  | 30  | 30 | 30 | 30 | 30 |
| negative | 25  | 12  | 20  | 26  | 17  | 17  | 29 | 30 | 30 | 30 |
| positive | 5   | 18  | 10  | 4   | 13  | 13  | 1  | 0  | 0  | 0  |
| % +ve    | 17% | 60% | 33% | 13% | 43% | 43% | 3% | 0% | 0% | 0% |

| Sample  | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 0  | 0  | 2  | 3  | 0  | 0  | 4  | 0  | 0  | 3  |
| 2       | 0  | 0  | 2  | 4  | 0  | 0  | 2  | 0  | 0  | 3  |
| 3       | 0  | 0  | 2  | 3  | 0  | 0  | 2  | 0  | 0  | 0  |
| 4       | 0  | 0  | 0  | 3  | 0  | 0  | 3  | 0  | 0  | 0  |
| 5       | 0  | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 6       | 0  | 0  | 0  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 7       | 0  | 0  | 0  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 8       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 9       | 0  | 0  | 0  | 0  | 0  | 0  | 3  | 0  | 0  | 0  |
| 10      | 0  | 0  | 0  | 3  | 0  | 0  | 3  | 0  | 0  | 0  |
| 11      | 0  | 0  | 0  | 2  | 0  | 0  | 3  | 0  | 0  | 0  |
| 12      | 0  | 0  | 0  | 0  | 0  | 0  | 3  | 0  | 0  | 0  |
| 13      | 0  | 0  | 0  | 0  | 0  | 0  | 4  | 0  | 0  | 0  |
| 14      | 0  | 0  | 0  | 2  | 0  | 0  | 3  | 0  | 0  | 0  |
| 15      | 0  | 0  | 3  | 2  | 0  | 0  | 0  | 0  | 0  | 0  |
| 16      | 0  | 0  | 2  | 2  | 0  | 0  | 0  | 0  | 0  | 0  |
| 17      | 0  | 0  | 2  | 4  | 0  | 0  | 0  | 0  | 0  | 0  |
| 18      | 0  | 0  | 3  | 4  | 0  | 0  | 0  | 0  | 0  | 2  |
| 19      | 0  | 0  | 3  | 0  | 0  | 0  | 2  | 0  | 0  | 3  |
| 20      | 0  | 0  | 0  | 0  | 0  | 0  | 2  | 0  | 0  | 3  |
| 21      | 0  | 0  | 0  | 2  | 0  | 0  | 3  | 0  | 0  | 2  |
| 22      | 0  | 0  | 0  | 4  | 0  | 0  | 4  | 0  | 0  | 0  |
| 23      | 0  | 0  | 0  | 4  | 0  | 0  | 4  | 0  | 0  | 0  |
| 24      | 0  | 0  | 0  | 3  | 0  | 0  | 3  | 0  | 0  | 0  |
| 25      | 0  | 0  | 0  | 4  | 0  | 0  | 2  | 0  | 0  | 0  |
| 26      | 0  | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 27      | 0  | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  |
| 28      | 0  | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 3  |
| 29      | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 30      | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 2  |
| average | 0  | 0  | 1  | 2  | 0  | 0  | 2  | 0  | 0  | 1  |
| maximum | 0  | 0  | 3  | 4  | 0  | 0  | 4  | 0  | 0  | 3  |

1

|          |    |    |    |     |    |    |     |    |    |    |
|----------|----|----|----|-----|----|----|-----|----|----|----|
| total    | 30 | 30 | 30 | 30  | 30 | 30 | 30  | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 22  | 30 | 30 | 26  | 30 | 30 | 30 |
| positive | 0  | 0  | 0  | 8   | 0  | 0  | 4   | 0  | 0  | 0  |
| % +ve    | 0% | 0% | 0% | 27% | 0% | 0% | 13% | 0% | 0% | 0% |

| Sample  | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 2       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 3       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 4       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 5       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 6       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 7       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 8       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 9       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4  |
| 10      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4  |
| 11      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 12      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 13      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 14      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 15      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 16      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 17      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3  |
| 18      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4  |
| 19      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2  |
| 20      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 21      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 22      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 23      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 24      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 25      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2  |
| 26      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 2  |
| 27      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 28      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 29      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 30      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| average | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  |
| maximum | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4  |

|          |    |    |    |    |    |    |    |    |    |     |
|----------|----|----|----|----|----|----|----|----|----|-----|
| total    | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30  |
| negative | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 27  |
| positive | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 3   |
| % +ve    | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 10% |

| Sample  | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
|---------|----|----|----|----|----|----|----|----|----|----|
| 1       | 0  | 2  | 0  | 0  | 4  | 3  | 0  | 0  | 0  | 0  |
| 2       | 0  | 4  | 0  | 0  | 3  | 3  | 4  | 0  | 0  | 0  |
| 3       | 0  | 4  | 0  | 0  | 4  | 3  | 3  | 0  | 0  | 0  |
| 4       | 0  | 3  | 0  | 0  | 4  | 3  | 0  | 3  | 0  | 0  |
| 5       | 0  | 3  | 0  | 0  | 4  | 0  | 3  | 4  | 0  | 0  |
| 6       | 0  | 4  | 2  | 0  | 0  | 0  | 4  | 4  | 0  | 0  |
| 7       | 0  | 4  | 2  | 0  | 0  | 3  | 4  | 4  | 0  | 0  |
| 8       | 0  | 0  | 2  | 0  | 0  | 2  | 4  | 3  | 0  | 0  |
| 9       | 0  | 0  | 3  | 0  | 2  | 3  | 3  | 0  | 0  | 0  |
| 10      | 0  | 0  | 0  | 0  | 4  | 0  | 3  | 0  | 0  | 0  |
| 11      | 0  | 3  | 0  | 0  | 4  | 0  | 0  | 0  | 0  | 0  |
| 12      | 0  | 3  | 0  | 0  | 4  | 0  | 0  | 0  | 0  | 0  |
| 13      | 0  | 4  | 0  | 0  | 3  | 0  | 4  | 0  | 0  | 0  |
| 14      | 0  | 2  | 0  | 0  | 3  | 4  | 3  | 2  | 0  | 0  |
| 15      | 0  | 0  | 3  | 0  | 0  | 4  | 4  | 2  | 0  | 0  |
| 16      | 0  | 0  | 3  | 0  | 0  | 0  | 3  | 2  | 0  | 0  |
| 17      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4  | 0  | 0  |
| 18      | 0  | 0  | 0  | 0  | 2  | 0  | 0  | 4  | 0  | 0  |
| 19      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 4  | 0  | 0  |
| 20      | 0  | 4  | 0  | 0  | 0  | 0  | 2  | 4  | 0  | 0  |
| 21      | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
| 22      | 0  | 4  | 0  | 0  | 3  | 3  | 4  | 0  | 0  | 0  |
| 23      | 0  | 3  | 0  | 0  | 4  | 3  | 4  | 0  | 0  | 0  |
| 24      | 0  | 2  | 0  | 0  | 0  | 4  | 4  | 0  | 0  | 0  |
| 25      | 0  | 2  | 0  | 0  | 0  | 3  | 0  | 3  | 0  | 0  |
| 26      | 0  | 0  | 0  | 0  | 0  | 0  | 3  | 3  | 0  | 0  |
| 27      | 0  | 0  | 0  | 0  | 4  | 2  | 2  | 0  | 0  | 0  |
| 28      | 0  | 0  | 0  | 0  | 4  | 0  | 0  | 3  | 0  | 0  |
| 29      | 0  | 0  | 0  | 0  | 4  | 0  | 4  | 3  | 0  | 0  |
| 30      | 0  | 2  | 0  | 0  | 3  | 4  | 4  | 3  | 0  | 0  |
| average | 0  | 2  | 1  | 0  | 2  | 2  | 2  | 2  | 0  | 0  |
| maximum | 0  | 4  | 3  | 0  | 4  | 4  | 4  | 4  | 0  | 0  |

|          |    |     |    |    |     |     |     |     |    |    |
|----------|----|-----|----|----|-----|-----|-----|-----|----|----|
| total    | 30 | 30  | 30 | 30 | 30  | 30  | 30  | 30  | 30 | 30 |
| negative | 30 | 23  | 30 | 30 | 19  | 26  | 19  | 23  | 30 | 30 |
| positive | 0  | 7   | 0  | 0  | 11  | 4   | 11  | 7   | 0  | 0  |
| % +ve    | 0% | 23% | 0% | 0% | 37% | 13% | 37% | 23% | 0% | 0% |

| Sample  | 41 | 42 | 43 | 44 |
|---------|----|----|----|----|
| 1       | 3  | 0  | 0  | 0  |
| 2       | 3  | 0  | 0  | 0  |
| 3       | 0  | 0  | 0  | 0  |
| 4       | 0  | 0  | 0  | 0  |
| 5       | 0  | 0  | 0  | 0  |
| 6       | 0  | 0  | 0  | 0  |
| 7       | 0  | 0  | 0  | 0  |
| 8       | 0  | 0  | 0  | 0  |
| 9       | 0  | 0  | 0  | 0  |
| 10      | 0  | 0  | 0  | 0  |
| 11      | 0  | 0  | 0  | 0  |
| 12      | 2  | 0  | 0  | 0  |
| 13      | 2  | 0  | 0  | 0  |
| 14      | 3  | 0  | 0  | 0  |
| 15      | 0  | 0  | 0  | 0  |
| 16      | 0  | 0  | 0  | 0  |
| 17      | 0  | 0  | 0  | 0  |
| 18      | 0  | 0  | 0  | 0  |
| 19      | 2  | 0  | 0  | 0  |
| 20      | 3  | 0  | 0  | 0  |
| 21      | 0  | 0  | 0  | 0  |
| 22      | 0  | 0  | 0  | 0  |
| 23      | 2  | 0  | 0  | 0  |
| 24      | 0  | 0  | 0  | 0  |
| 25      | 0  | 0  | 0  | 0  |
| 26      | 0  | 0  | 0  | 0  |
| 27      | 0  | 0  | 0  | 0  |
| 28      | 0  | 0  | 0  | 0  |
| 29      | 0  | 0  | 0  | 0  |
| 30      | 0  | 0  | 0  | 0  |
| average | 1  | 0  | 0  | 0  |
| maximum | 3  | 0  | 0  | 0  |

|          |    |    |    |    |
|----------|----|----|----|----|
| total    | 30 | 30 | 30 | 30 |
| negative | 30 | 30 | 30 | 30 |
| positive | 0  | 0  | 0  | 0  |
| % +ve    | 0% | 0% | 0% | 0% |