



TP10 - 0.00-3.20mbgl



TP10 - 0.00-3.20mbgl



TP20 - 0.00-1.00mbgl



TP21 - 0.00-1.00mbgl



WS15 - 0.00-4.00mbgl

**Project Details**

WIB13235-102: Mount Pleasant - Phoenix Place Site

**Figure Title**

Figure B4: Site Photographs

**Figure Ref**

WIB13235-102\_GR\_GQRA\_B4A

**Date**

February 2017

**File Location**

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## **Appendix D**

## **Exploratory Hole Records**

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH11</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>11.11.16</b><br>End: <b>17.11.16</b> | Ground Level: <b>17.46</b> | National Grid Co-ordinate: <b>E:530926.3 N:182297.5</b> |  | Sheet: <b>1 of 5</b>  |

| Samples and In-situ Tests |    |        |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                                                         | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|--------|---------------------------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type   | Results                   |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 0.00-1.20                 | 1  | B      |                           |       |                            | MADE GROUND: Asphalt.                                                                                                                                                                                                                                                         | 17.26         | 0.20              |                         |
| 0.50                      | 1  | ES     | J+V+T                     |       |                            | MADE GROUND: Reddish grey and brown SAND and GRAVEL. Sand is fine to coarse. Gravel is subangular fine to coarse of concrete and brick.                                                                                                                                       |               | (1.60)            |                         |
| 0.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 1.00                      | 2  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 1.00                      |    | PID    | 0.1ppm                    |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 1.20                      | 2  | D      |                           |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 1.50-1.95                 | 1  | SPT(c) | 1,1/2,2,2,2<br>N=8        |       |                            |                                                                                                                                                                                                                                                                               | 15.66         | 1.80              |                         |
| 1.50-2.00                 | 3  | B      |                           |       |                            | MADE GROUND: Dark brown very clayey SAND and GRAVEL with a medium cobble content. Sand is fine to coarse. Gravel is subrounded to angular fine to coarse Flint, brick and concrete. Cobbles are subangular up to 150mm in diameter Concrete. With occasional Ash and clinker. |               | (1.70)            |                         |
| 1.50                      |    | PID    | 0.1ppm                    |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 1.50                      | 3  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 2.00                      | 4  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 2.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 2.20                      | 4  | D      |                           |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 2.50-2.95                 | 2  | SPT(c) | 1/1,1,1<br>N=3            |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 2.50-3.00                 | 5  | B      |                           |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 2.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 2.50                      | 5  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 3.00                      | 6  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 3.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                               | 13.96         | 3.50              |                         |
| 3.20                      | 6  | D      |                           |       |                            | Firm light orangish brown slightly sandy silty CLAY. Sand is fine.                                                                                                                                                                                                            |               |                   |                         |
| 3.50                      | 7  | D      |                           |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 3.50-3.95                 | 8  | U      | 100 blows<br>30% recovery |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 3.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 3.50                      | 7  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 3.90                      | 9  | D      |                           |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 4.00                      | 8  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 4.00                      |    | PID    | 0.1ppm                    |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 4.50                      | 9  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 4.50-4.95                 | 10 | SPT    | 2,3/3,4,4,4<br>N=15       |       |                            |                                                                                                                                                                                                                                                                               |               | (4.00)            |                         |
| 4.50-5.00                 | 11 | B      |                           |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 4.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 5.00                      | 10 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 5.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 5.50                      | 12 | D      |                           |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 6.00                      | 11 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 6.00-6.45                 | 13 | U      | 32 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 6.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 6.40                      | 14 | D      |                           |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 7.00                      | 12 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 7.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                               | 9.96          | 7.50              |                         |
| 7.50-7.95                 | 3  | SPT(c) | 1,2/3,3,3,4<br>N=13       |       |                            | Medium dense yellowish brown very clayey SAND and GRAVEL. Sand is fine to coarse. Gravel is subrounded to subangular fine to medium of flint.                                                                                                                                 |               | (0.70)            |                         |
| 7.50                      | 15 | D      |                           |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 7.50-8.00                 | 16 | B      |                           |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 8.00                      | 13 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |
| 8.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                               | 9.26          | 8.20              |                         |
| 8.20                      | 17 | D      |                           |       |                            | Stiff dark grey closely spaced fissured silty CLAY. With occasional selenite.<br>(LONDON CLAY FORMATION)                                                                                                                                                                      |               |                   |                         |
| 8.50                      | 18 | D      |                           |       |                            |                                                                                                                                                                                                                                                                               |               |                   |                         |

| Boring Progress and Water Observations |       |                |              |                        |                | Chiselling / Slow Progress |       |                  | General Remarks |
|----------------------------------------|-------|----------------|--------------|------------------------|----------------|----------------------------|-------|------------------|-----------------|
| Date                                   | Time  | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth    | From                       | To    | Duration (hh:mm) |                 |
| 11/11/16                               | 12:35 | 7.50           | 7.50         | 250                    | 15.00<br>16.50 | 16.20                      | 16.60 | 02:00            |                 |
| 15/11/16                               | 08:00 | 7.50           | 7.50         | 250                    |                |                            |       |                  |                 |
| 15/11/16                               | 11:35 | 15.00          | 15.00        | 250                    |                |                            |       |                  |                 |
| 15/11/16                               | 12:35 | 16.50          | 16.20        | 250                    |                |                            |       |                  |                 |
| 15/11/16                               | 18:35 | 18.00          | 18.00        | 250                    |                |                            |       |                  |                 |
| 16/11/16                               | 18:33 | 36.50          | 36.50        | 200                    |                |                            |       |                  |                 |
| 17/11/16                               | 17:44 | 41.80          | 36.50        | 200                    |                |                            |       |                  |                 |
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|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH11</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>11.11.16</b><br>End: <b>17.11.16</b> | Ground Level: <b>17.46</b> | National Grid Co-ordinate: <b>E:530926.3 N:182297.5</b> |  | Sheet: <b>2 of 5</b>  |

| Samples and In-situ Tests |          |           |                                    | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                       | Reduced Level | Depth (Thick ness) | Material Graphic Legend |
|---------------------------|----------|-----------|------------------------------------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|-------------------------|
| Depth                     | No       | Type      | Results                            |       |                            |                                                                                                                                                             |               |                    |                         |
| 9.00<br>9.00-9.45         | 14<br>19 | ES<br>U   | J+V+T<br>52 blows<br>100% recovery |       |                            | Stiff dark grey closely spaced fissured silty CLAY. With occasional selenite.<br>(LONDON CLAY FORMATION)<br>(stratum copied from 8.20m from previous sheet) |               |                    |                         |
| 9.00<br>9.40              |          | PID<br>D  | 0.0ppm                             |       |                            |                                                                                                                                                             |               |                    |                         |
| 10.00<br>10.00            | 15       | ES<br>PID | J+V+T<br>0.0ppm                    |       |                            |                                                                                                                                                             |               |                    |                         |
| 10.50-10.95               | 21       | SPT       | 2,3/4,4,5,5<br>N=18                |       |                            |                                                                                                                                                             |               |                    |                         |
| 10.50                     | 22       | D         |                                    |       |                            |                                                                                                                                                             |               |                    |                         |
| 11.50                     | 23       | D         |                                    |       |                            |                                                                                                                                                             |               | (6.80)             |                         |
| 12.00-12.45               | 24       | U         | 60 blows<br>100% recovery          |       |                            |                                                                                                                                                             |               |                    |                         |
| 12.40                     | 25       | D         |                                    |       |                            |                                                                                                                                                             |               |                    |                         |
| 13.00<br>13.00            | 16       | ES<br>PID | J+V+T<br>0.0ppm                    |       |                            |                                                                                                                                                             |               |                    |                         |
| 13.50-13.95               | 26       | SPT       | 3,4/5,5,5,6<br>N=21                |       |                            |                                                                                                                                                             |               |                    |                         |
| 13.50-14.00               | 27       | B         |                                    |       |                            |                                                                                                                                                             |               |                    |                         |
| 14.50                     | 28       | D         |                                    |       |                            |                                                                                                                                                             |               |                    |                         |
| 14.80<br>14.80            | 17       | ES<br>PID | J+V+T<br>0.0ppm                    |       |                            | Medium dense grey fine SAND.<br>(HARWICH FORMATION)                                                                                                         | 2.46          | 15.00              |                         |
| 15.00<br>15.00-15.45      | 29<br>30 | D<br>SPT  | 2,2/4,4,4,5<br>N=17                |       |                            |                                                                                                                                                             |               | (1.20)             |                         |
| 16.20-16.60               | 31       | B         |                                    |       |                            | Recovery of flat sub-angular coarse GRAVEL and COBBLES of medium strong to strong MUDSTONE.<br>(HARWICH FORMATION)                                          | 1.26          | 16.20              |                         |
| 16.50-16.52               | 4        | SPT(c)    | 25/50<br>for 12mm<br>N=1250*       |       |                            |                                                                                                                                                             | 0.86          | 16.60              |                         |
| 16.60                     | 32       | D         |                                    |       |                            | Stiff to very stiff light bluish grey and brown closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)                                 |               |                    |                         |
| 17.50                     | 33       | D         |                                    |       |                            |                                                                                                                                                             |               |                    |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress    |    |                  | General Remarks                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|-------------------------------|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                          | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                       |
|                                                       |      |                |              |                        |             |                               |    |                  | 4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 3.5 and 8.0mbgl. Pipe 2 - 50mm HDPE response zone 15m to 18m bgl.<br>5. Borehole backfilled with 3mm shingle gravel filter between 3.5m to 8.0mbgl & 15.0m to 18.0m bgl; sand filter from 3.0m to 3.5m bgl |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Plant Used: <b>Dando 3000</b> |    |                  | All dimensions in metres                                                                                                                                                                                                                                                              |
| Drilled By: <b>MC</b>                                 |      |                |              |                        |             | Logged By: <b>JBarron</b>     |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                                                                    |
| Checked By: <b>ST</b>                                 |      |                |              |                        |             | Checked By: <b>AGS</b>        |    |                  |                                                                                                                                                                                                                                                                                       |

|                                                |  |                        |                                         |                                                         |  |                       |  |
|------------------------------------------------|--|------------------------|-----------------------------------------|---------------------------------------------------------|--|-----------------------|--|
| Contract: <b>Mount Pleasant Sorting Office</b> |  |                        | Client: <b>Royal Mail Group Limited</b> |                                                         |  | Borehole: <b>BH11</b> |  |
| Contract Ref: <b>28549</b>                     |  | Start: <b>11.11.16</b> | Ground Level: <b>17.46</b>              | National Grid Co-ordinate: <b>E:530926.3 N:182297.5</b> |  | Sheet: <b>3 of 5</b>  |  |
|                                                |  | End: <b>17.11.16</b>   |                                         |                                                         |  |                       |  |

| Samples and In-situ Tests |          |           |                                               | Water Backfill & Instrumentation | Description of Strata                                                                                                                                                                           | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----------|-----------|-----------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No       | Type      | Results                                       |                                  |                                                                                                                                                                                                 |               |                   |                         |
| 18.00<br>18.00-18.45      | 18<br>34 | ES<br>U   | J+V+T<br>150 blows<br>100% recovery<br>0.0ppm |                                  | Stiff to very stiff light bluish grey and brown closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)<br>(stratum copied from 16.60m from previous sheet)                 |               | (5.40)            |                         |
| 18.00<br>18.40            | 35       | PID<br>D  |                                               |                                  |                                                                                                                                                                                                 |               |                   |                         |
| 19.00                     | 36       | D         |                                               |                                  |                                                                                                                                                                                                 |               |                   |                         |
| 19.50-19.95               | 37       | SPT       | 3,4/5,6,6,7<br>N=24                           |                                  |                                                                                                                                                                                                 |               |                   |                         |
| 19.50-20.00               | 38       | B         |                                               |                                  |                                                                                                                                                                                                 |               |                   |                         |
| 20.50                     | 39       | D         |                                               |                                  |                                                                                                                                                                                                 |               |                   |                         |
| 21.00-21.45               | 40       | U         | 72 blows<br>100% recovery                     |                                  |                                                                                                                                                                                                 |               |                   |                         |
| 22.00                     | 41       | D         |                                               |                                  |                                                                                                                                                                                                 |               |                   |                         |
| 22.50-22.95               | 42       | SPT       | 4,6/7,7,9,11<br>N=34                          |                                  |                                                                                                                                                                                                 |               |                   |                         |
| 22.50-23.00               | 43       | B         |                                               |                                  |                                                                                                                                                                                                 |               |                   |                         |
| 23.20                     | 44       | D         |                                               |                                  | Recovery of brown clayey fine SAND. (LAMBETH GROUP - UPPER MOTTLED BEDS - SAND CHANNEL)                                                                                                         | -4.54         | 22.00             |                         |
| 22.50-22.95               | 42       | SPT       | 4,6/7,7,9,11<br>N=34                          |                                  | Stiff to very stiff light bluish grey mottled brown closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)                                                                 | -5.04         | 22.50             |                         |
| 22.50-23.00               | 43       | B         |                                               |                                  |                                                                                                                                                                                                 | -5.74         | 23.20             |                         |
| 23.20                     | 44       | D         |                                               |                                  | Stiff to very stiff dark grey and light grey fissured silty CLAY.<br>With partings of light grey sand and occasional thin laminations of lignitic material.<br>(LAMBETH GROUP - LAMINATED BEDS) |               | (1.50)            |                         |
| 24.00-24.45               | 45       | U         | 58 blows<br>100% recovery                     |                                  |                                                                                                                                                                                                 | -7.24         | 24.70             |                         |
| 24.70                     | 46       | D         |                                               |                                  | Stiff to very stiff light grey mottled dark yellowish brown very closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)                                                    |               | (3.30)            |                         |
| 25.00<br>25.00            | 19       | ES<br>PID | J+V+T<br>0.0ppm                               |                                  |                                                                                                                                                                                                 |               |                   |                         |
| 25.50-25.95               | 47       | SPT       | 5,6/9,10,10,11<br>N=40                        |                                  | . . . At 25.5m bgl red mottling.                                                                                                                                                                |               |                   |                         |
| 25.50-26.00               | 48       | B         |                                               |                                  |                                                                                                                                                                                                 |               |                   |                         |
| 26.50                     | 49       | D         |                                               |                                  |                                                                                                                                                                                                 |               |                   |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress    |    |                  | General Remarks                                                                                                                                                                                                                                                      |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|-------------------------------|----|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                          | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                      |
|                                                       |      |                |              |                        |             |                               |    |                  | and 14.5m to 15.0m bgl & bentonite seal/grouting between 0.2m and 3.0m bgl;<br>8.0m to 14.5m bgl; 18.0m to 24.7m bgl with compacted backfill (sand/clay) to base of borehole and installation of flush cover.<br>6. PID = Photo ionisation detector with 10.6eV bulb |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Plant Used: <b>Dando 3000</b> |    |                  | All dimensions in metres                                                                                                                                                                                                                                             |
|                                                       |      |                |              |                        |             | Drilled By: <b>MC</b>         |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                                                   |
|                                                       |      |                |              |                        |             | Logged By: <b>JBarron</b>     |    |                  | Checked By: <b>ST</b>                                                                                                                                                                                                                                                |
|                                                       |      |                |              |                        |             |                               |    |                  |                                                                                                                                                                                                                                                                      |



# BOREHOLE LOG

|                                                   |                                                |                               |                                                            |  |                          |
|---------------------------------------------------|------------------------------------------------|-------------------------------|------------------------------------------------------------|--|--------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |                                                |                               | Client:<br><b>Royal Mail Group Limited</b>                 |  | Borehole:<br><b>BH11</b> |
| Contract Ref:<br><b>28549</b>                     | Start: <b>11.11.16</b><br>End: <b>17.11.16</b> | Ground Level:<br><b>17.46</b> | National Grid Co-ordinate:<br><b>E:530926.3 N:182297.5</b> |  | Sheet:<br><b>4 of 5</b>  |

| Samples and In-situ Tests |    |      |                             | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                                           | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|-----------------------------|-------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results                     |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 27.00-27.45               | 50 | U    | 75 blows<br>0% recovery     |       |                            | Stiff to very stiff light grey mottled dark yellowish brown very closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)<br><i>(stratum copied from 24.70m from previous sheet)</i>                                                         |               |                   |                         |
| 27.00-27.50               | 51 | B    |                             |       |                            |                                                                                                                                                                                                                                                                 | -10.54        | 28.00             |                         |
| 28.50-28.95               | 52 | SPT  | 4,7/9,9,10,10<br>N=38       |       |                            | Stiff dark grey and greenish grey sandy silty CLAY. Sand is fine glauconitic. With occasional discontinuous thin lamination sized pockets of grey fine sand.<br>(LAMBETH GROUP - UPNOR FORMATION)<br>... At 28.0m bgl grey and slightly sandy. Sand is fine.    |               | (1.00)            |                         |
| 28.50-29.00               | 53 | B    |                             |       |                            |                                                                                                                                                                                                                                                                 | -11.54        | 29.00             |                         |
| 29.00                     | 54 | D    |                             |       |                            | Stiff to very stiff green mottled light brownish yellow sandy silty CLAY. Sand is fine.<br>(LAMBETH GROUP - UPNOR FORMATION)                                                                                                                                    |               |                   |                         |
| 29.50-29.95               | 55 | U    | 150 blows<br>100% recovery  |       |                            |                                                                                                                                                                                                                                                                 |               | (1.50)            |                         |
| 30.00                     | 20 | ES   | J+V+T                       |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 30.00                     |    | PID  | 0.0ppm                      |       |                            |                                                                                                                                                                                                                                                                 | -13.04        | 30.50             |                         |
| 30.50                     | 56 | D    |                             |       |                            | Stiff to very stiff grey sandy gravelly CLAY. Sand is fine to medium. Gravel is rounded flat fine to coarse of black pebbles. Locally thinly to thickly laminated with thin laminations and partings light grey fine sand.<br>(LAMBETH GROUP - UPNOR FORMATION) |               |                   |                         |
| 31.00-31.45               | 57 | SPT  | 3,6/8,9,10,11<br>N=38       |       |                            |                                                                                                                                                                                                                                                                 |               | (2.00)            |                         |
| 31.00-31.50               | 58 | B    |                             |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 32.00                     | 59 | D    |                             |       |                            |                                                                                                                                                                                                                                                                 | -15.04        | 32.50             |                         |
| 32.50                     | 60 | D    |                             |       |                            | Very dense grey silty fine SAND.<br>(THANET SAND FORMATION)                                                                                                                                                                                                     |               |                   |                         |
| 32.50-32.57               | 61 | SPT  | 25/50<br>for 29mm<br>N=517* |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 32.50-33.00               | 62 | B    |                             |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 33.50                     | 63 | D    |                             |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 34.00-34.09               | 64 | SPT  | 25/50<br>for 66mm<br>N=227* |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 34.00-34.50               | 65 | B    |                             |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 35.00                     | 21 | ES   | J+V+T                       |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 35.00                     |    | PID  | 0.0ppm                      |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 35.50                     | 66 | D    |                             |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 35.50-36.00               | 67 | B    |                             |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                       |
|                                                       |      |                |              |                        |             |                            |    |                  | 7. Groundwater strike (medium to large flow) observed by driller at 15.0m bgl rising to 14.21m bgl after 20 mins.<br>8. Groundwater strike (medium to large flow) observed by driller at 16.5m bgl rising to 15.70m bgl after 20 mins.<br>9. 250L of water added to drill through the |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Drilled By: <b>MC</b>      |    |                  | All dimensions in metres Scale: <b>1:50</b>                                                                                                                                                                                                                                           |
| Plant Used: <b>Dando 3000</b>                         |      |                |              |                        |             | Logged By: <b>JBarron</b>  |    |                  | Checked By: <b>ST</b>                                                                                                                                                                                                                                                                 |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |                                                            |  |                          |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|------------------------------------------------------------|--|--------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |                                                            |  | Borehole:<br><b>BH11</b> |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>11.11.16</b><br>End: <b>17.11.16</b> | Ground Level:<br><b>17.46</b>              | National Grid Co-ordinate:<br><b>E:530926.3 N:182297.5</b> |  | Sheet:<br><b>5 of 5</b>  |

| Samples and In-situ Tests |    |        |                             | Water | Backfill & Instru-<br>mentation | Description of Strata                                                                                           | Reduced Level | Depth (Thick-<br>ness) | Material<br>Graphic<br>Legend |
|---------------------------|----|--------|-----------------------------|-------|---------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------|------------------------|-------------------------------|
| Depth                     | No | Type   | Results                     |       |                                 |                                                                                                                 |               |                        |                               |
| 37.00-37.10               | 68 | SPT    | 25/50<br>for 60mm<br>N=250* |       |                                 | Very dense grey silty fine SAND.<br>(THANET SAND FORMATION)<br>(stratum copied from 32.50m from previous sheet) |               | (9.33)                 |                               |
| 37.00-37.50               | 69 | B      |                             |       |                                 |                                                                                                                 |               |                        |                               |
| 38.00                     | 70 | D      |                             |       |                                 |                                                                                                                 |               |                        |                               |
| 38.50-38.60               | 71 | SPT    | 25/50<br>for 32mm<br>N=469* |       |                                 |                                                                                                                 |               |                        |                               |
| 38.50-39.00               | 72 | B      |                             |       |                                 |                                                                                                                 |               |                        |                               |
| 39.50                     | 73 | D      |                             |       |                                 |                                                                                                                 |               |                        |                               |
| 40.00                     | 22 | ES     | J+V+T                       |       |                                 | Borehole terminated at 41.83m bgl due to refusal.                                                               |               |                        |                               |
| 40.00-40.08               | 74 | SPT    | 25/50<br>for 43mm<br>N=349* |       |                                 |                                                                                                                 |               |                        |                               |
| 40.00-40.50               | 75 | B      |                             |       |                                 |                                                                                                                 |               |                        |                               |
| 40.00                     |    | PID    | 0.0ppm                      |       |                                 |                                                                                                                 |               |                        |                               |
| 41.00                     | 76 | D      |                             |       |                                 |                                                                                                                 |               |                        |                               |
| 41.80-41.83               | 5  | SPT(c) | 25/50<br>for 20mm<br>N=750* |       |                                 |                                                                                                                 | -24.37        | 41.83                  |                               |

| Boring Progress and Water Observations |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks                                                        |  |  |
|----------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|------------------------------------------------------------------------|--|--|
| Date                                   | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  | Thanet Sand.<br>10. Driller chiselling from 16.2m to 16.6m bgl: 2 hrs. |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
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|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                        |  |  |
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# BOREHOLE LOG

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH12</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>17.11.16</b><br>End: <b>23.11.16</b> | Ground Level: <b>16.05</b> | National Grid Co-ordinate: <b>E:530973.0 N:182282.1</b> |  | Sheet: <b>1 of 5</b>  |

| Samples and In-situ Tests |    |        |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                                                                           | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|--------|---------------------------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type   | Results                   |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
|                           |    |        |                           |       |                            | MADE GROUND: Dark greyish brown SAND and GRAVEL. Compacted.                                                                                                                                                                                                                                     | 15.85         | 0.20              |                         |
| 0.50-1.00                 | 1  | B      |                           |       |                            | MADE GROUND: Greyish brown clayey SAND and GRAVEL with a medium cobble content. Sand is fine to coarse. Gravel is subrounded to angular fine to coarse Flint, brick and concrete. Cobbles are subangular up to 150mm in diameter Concrete and brick. With occasional Ash and clinker.           |               |                   |                         |
| 0.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 0.50                      | 1  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 1.00                      | 2  | D      |                           |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 1.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 1.01                      | 2  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 1.20-1.65                 | 3  | SPT(c) | 2,3/3,2,2,2<br>N=9        |       |                            |                                                                                                                                                                                                                                                                                                 |               | (3.00)            |                         |
| 1.20-1.70                 | 4  | B      |                           |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 1.50                      | 3  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 1.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 2.00                      | 4  | ES     | J+V+T                     |       |                            | MADE GROUND: Dark greyish brown very clayey SAND and GRAVEL with a medium cobble content. Sand is fine to coarse. Gravel is subrounded to angular fine to coarse Flint, brick and concrete. Cobbles are subangular up to 150mm in diameter Concrete and brick. With occasional Ash and clinker. |               |                   |                         |
| 2.00                      |    | PID    | 0.1ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 2.50                      | 5  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 2.50                      |    | PID    | 0.1ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 3.00                      | 6  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                                                 | 12.85         | 3.20              |                         |
| 3.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 3.20-3.65                 | 5  | SPT    | 1,3/2,3,4,3<br>N=12       |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 3.50                      | 7  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 3.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 3.70-4.20                 | 6  | B      |                           |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 4.00                      | 8  | ES     | J+V+T                     |       |                            | MADE GROUND: Dark greyish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of flint, concrete and brick. With occasional Ash and clinker.                                                                                                   |               |                   |                         |
| 4.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 4.20-4.65                 | 7  | U      | 29 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 4.50                      | 9  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 4.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 5.00                      | 10 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 5.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 5.20-5.65                 | 8  | SPT    | 2,2/4,2,4,3<br>N=13       |       |                            |                                                                                                                                                                                                                                                                                                 |               | (4.80)            |                         |
| 5.20-5.70                 | 9  | B      |                           |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 6.00                      | 11 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 6.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 6.50-6.95                 | 10 | U      | 32 blows<br>100% recovery |       |                            | MADE GROUND: Dark greyish brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of flint, concrete and brick. With occasional Ash and clinker.                                                                                                   |               |                   |                         |
| 7.00                      | 12 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 7.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 8.00-8.45                 | 11 | SPT    | 4,4/4,4,4,4<br>N=16       |       |                            |                                                                                                                                                                                                                                                                                                 | 8.05          | 8.00              |                         |
| 8.00-8.50                 | 12 | B      |                           |       |                            |                                                                                                                                                                                                                                                                                                 |               | (0.70)            |                         |
| 8.00                      | 13 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 8.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                 | 7.35          | 8.70              |                         |
| 8.70                      | 13 | D      |                           |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
| 8.70-9.10                 | 14 | B      |                           |       |                            |                                                                                                                                                                                                                                                                                                 |               |                   |                         |
|                           |    |        |                           |       |                            | Description on next sheet                                                                                                                                                                                                                                                                       |               |                   |                         |

| Boring Progress and Water Observations                |       |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------|-------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time  | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                                                             |
| 17/11/16                                              | 17:35 | 15.00          | 15.00        | 250                    |             |                            |    |                  | 1. Hand dug inspection pit to 1.20m bgl.<br>2. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.<br>3. Borehole drilled in following diameters: 20.0m bgl in 250mm; 32.5m bgl in 200mm; 40.0m bgl in 150mm casing to 20.0m bgl in 250mm; 32.5m bgl in 200mm and 40.0m bgl in 150mm |
| 18/11/16                                              | 13:33 | 20.00          | 20.00        | 250                    |             |                            |    |                  |                                                                                                                                                                                                                                                                                                                             |
| 21/11/16                                              | 17:35 | 23.00          | 23.00        | 200                    |             |                            |    |                  |                                                                                                                                                                                                                                                                                                                             |
| 22/11/16                                              | 17:38 | 32.00          | 32.00        | 200                    |             |                            |    |                  |                                                                                                                                                                                                                                                                                                                             |
| 23/11/16                                              | 17:47 | 40.00          | 40.00        | 150                    |             |                            |    |                  |                                                                                                                                                                                                                                                                                                                             |
| Method Used: <b>Inspection pit + Cable percussion</b> |       |                |              |                        |             | Drilled By: <b>MW</b>      |    |                  | All dimensions in metres                                                                                                                                                                                                                                                                                                    |
| Plant Used: <b>Dando 2000</b>                         |       |                |              |                        |             | Logged By: <b>JBarron</b>  |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                                                                                                          |
|                                                       |       |                |              |                        |             | Checked By: <b>ST</b>      |    |                  |                                                                                                                                                                                                                                                                                                                             |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                          |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH12</b> |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>17.11.16</b><br>End: <b>23.11.16</b> | Ground Level:<br><b>16.05</b>              |  | National Grid Co-ordinate:<br><b>E:530973.0 N:182282.1</b> |                          | Sheet:<br><b>2 of 5</b> |

| Samples and In-situ Tests |    |      |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                                                                                                                                | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|---------------------------|-------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results                   |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 9.00                      | 14 | ES   | J+V+T                     |       |                            | Firm greyish brown slightly sandy slightly gravelly silty CLAY. Sand is fine to medium. Gravel is subrounded to subangular fine to medium of flint.<br>(LONDON CLAY FORMATION)<br><i>(stratum copied from 8.70m from previous sheet)</i><br>Stiff dark grey closely spaced fissured silty CLAY. With occasional selenite.<br>(LONDON CLAY FORMATION) | 6.95          | 9.10              |                         |
| 9.00                      |    | PID  | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 9.10                      | 15 | D    |                           |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 9.10-9.40                 | 16 | B    |                           |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 9.50-9.95                 | 17 | U    | 47 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 10.00                     | 15 | ES   | J+V                       |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 10.00                     |    | PID  | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 11.00-11.45               | 18 | SPT  | 4,6/9,7,7,8<br>N=31       |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 11.00-11.50               | 19 | B    |                           |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               | (5.00)            |                         |
| 12.50-12.95               | 20 | U    | 64 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 13.00                     | 16 | ES   | J+V                       |       |                            | Stiff to very stiff light bluish grey and brown closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)                                                                                                                                                                                                                          | 1.95          | 14.10             |                         |
| 13.00                     |    | PID  | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 14.00-14.45               | 21 | SPT  | 3,5/7,9,9,9<br>N=34       |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 14.00-14.50               | 22 | B    |                           |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 15.50-15.95               | 23 | U    | 70 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 16.00                     | 17 | ES   | J+V                       |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 16.00                     |    | PID  | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 17.00-17.45               | 24 | SPT  | 7,6/7,8,9,9<br>N=33       |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
| 17.00-17.50               | 25 | B    |                           |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |
|                           |    |      |                           |       |                            |                                                                                                                                                                                                                                                                                                                                                      |               |                   |                         |

| Boring Progress and Water Observations |                                   |                |              |                        |             | Chiselling / Slow Progress |             |                  | General Remarks                                                                                                                                                                                                                                       |             |             |    |     |
|----------------------------------------|-----------------------------------|----------------|--------------|------------------------|-------------|----------------------------|-------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----|-----|
| Date                                   | Time                              | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To          | Duration (hh:mm) |                                                                                                                                                                                                                                                       |             |             |    |     |
|                                        |                                   |                |              |                        |             |                            |             |                  |                                                                                                                                                                                                                                                       |             |             |    |     |
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|                                        |                                   |                |              |                        |             |                            |             |                  | diameter.<br>4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 4.0 and 8.0mbgl. Pipe 2 - 50mm HDPE response zone 23m to 29m bgl.<br>5. Borehole backfilled with 3mm shingle gravel filter between 4.0m to 8.0mbgl & 23.0m to |             |             |    |     |
|                                        |                                   |                |              |                        |             |                            |             |                  | All dimensions in metres                                                                                                                                                                                                                              | Scale: 1:50 |             |    |     |
| Method Used:                           | Inspection pit + Cable percussion |                |              | Plant Used:            | Dando 2000  |                            | Drilled By: | MW               | Logged By:                                                                                                                                                                                                                                            | JBarron     | Checked By: | ST | AGS |

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH12</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>17.11.16</b><br>End: <b>23.11.16</b> | Ground Level: <b>16.05</b> | National Grid Co-ordinate: <b>E:530973.0 N:182282.1</b> |  | Sheet: <b>3 of 5</b>  |

| Samples and In-situ Tests |    |      |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                           | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|---------------------------|-------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results                   |       |                            |                                                                                                                                                                                 |               |                   |                         |
| 18.50-18.95               | 26 | U    | 68 blows<br>100% recovery |       |                            | Stiff to very stiff light bluish grey and brown closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)<br>(stratum copied from 14.10m from previous sheet) |               | (8.40)            |                         |
| 20.00                     | 18 | ES   | J+V                       |       |                            |                                                                                                                                                                                 |               |                   |                         |
| 20.00-20.45               | 27 | SPT  | 4,8/7,8,10,9<br>N=34      |       |                            |                                                                                                                                                                                 |               |                   |                         |
| 20.00-20.50               | 28 | B    |                           |       |                            |                                                                                                                                                                                 |               |                   |                         |
| 20.00                     |    | PID  | 0.0ppm                    |       |                            |                                                                                                                                                                                 |               |                   |                         |
| 21.00-21.45               | 29 | SPT  | 8,9/7,10,11,11<br>N=39    |       |                            |                                                                                                                                                                                 |               |                   |                         |
| 22.50-22.95               | 30 | U    | 77 blows<br>100% recovery |       |                            | Stiff to very stiff dark grey and light grey fissured silty CLAY.<br>With partings of light grey sand and occasional lignitic deposits.<br>(LAMBETH GROUP - LAMINATED BEDS)     | -6.45         | 22.50             |                         |
| 24.00-24.45               | 31 | SPT  | 7,6/9,9,10,9<br>N=37      |       |                            |                                                                                                                                                                                 |               | (1.95)            |                         |
| 25.00                     | 19 | ES   | J+V                       |       |                            | Stiff to very stiff light bluish grey mottled light yellowish brown closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)                                 | -8.40         | 24.45             |                         |
| 25.00                     |    | PID  | 0.0ppm                    |       |                            |                                                                                                                                                                                 |               |                   |                         |
| 25.50-25.95               | 32 | U    | 88 blows<br>100% recovery |       |                            |                                                                                                                                                                                 |               | (4.45)            |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress    |    |                  | General Remarks                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|-------------------------------|----|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                          | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                                           |
|                                                       |      |                |              |                        |             |                               |    |                  | 29.0m bgl; sand filter from 3.5m to 4.0m bgl and 22.5m to 23.0m bgl & bentonite seal/grouting between 0.2m and 3.5m bgl; 8.0m to 22.5m bgl; 29.0m to 32.0m bgl with compacted backfill (sand/clay) to base of borehole and installation of flush cover.<br>6. PID = Photo ionisation detector with 10.6eV |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Plant Used: <b>Dando 2000</b> |    |                  | All dimensions in metres                                                                                                                                                                                                                                                                                  |
| Drilled By: <b>MW</b>                                 |      |                |              |                        |             | Logged By: <b>JBarron</b>     |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                                                                                        |
| Checked By: <b>ST</b>                                 |      |                |              |                        |             | Checked By: <b>AGS</b>        |    |                  |                                                                                                                                                                                                                                                                                                           |

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH12</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>17.11.16</b><br>End: <b>23.11.16</b> | Ground Level: <b>16.05</b> | National Grid Co-ordinate: <b>E:530973.0 N:182282.1</b> |  | Sheet: <b>4 of 5</b>  |

| Samples and In-situ Tests |    |      |                                  | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                                           | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|----------------------------------|-------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results                          |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 27.00-27.45               | 33 | SPT  | 8,8/8,9,11<br>N=37               |       |                            | Stiff to very stiff light bluish grey mottled light yellowish brown closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)<br>(stratum copied from 24.45m from previous sheet)                                                             |               |                   |                         |
| 28.50-28.95               | 34 | U    | 76 blows<br>100% recovery        |       |                            |                                                                                                                                                                                                                                                                 | -12.85        | 28.90             |                         |
| 28.95-29.05               | 35 | D    |                                  |       |                            | Stiff dark grey and greenish grey sandy silty CLAY. Sand is fine glauconitic. With occasional discontinuous thin lamination sized pockets of grey fine sand.<br>(LAMBETH GROUP - UPNOR FORMATION)                                                               | -13.85        | 29.90             |                         |
| 30.00                     | 20 | ES   | J+V                              |       |                            | Stiff to very stiff green mottled light brownish yellow sandy silty CLAY. Sand is fine.<br>(LAMBETH GROUP - UPNOR FORMATION)                                                                                                                                    | -14.45        | 30.50             |                         |
| 30.00-30.45               | 36 | SPT  | 6,8/9,9,12,13<br>N=43            |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 30.00                     |    | PID  | 0.0ppm                           |       |                            | Stiff to very stiff grey sandy gravelly CLAY. Sand is fine to medium. Gravel is rounded flat fine to coarse of black pebbles. Locally thinly to thickly laminated with thin laminations and partings light grey fine sand.<br>(LAMBETH GROUP - UPNOR FORMATION) |               | (1.50)            |                         |
| 31.50-31.95               | 37 | U    | 91 blows<br>100% recovery        |       |                            |                                                                                                                                                                                                                                                                 | -15.95        | 32.00             |                         |
| 32.00                     | 38 | D    |                                  |       |                            | Very dense grey fine SAND.<br>(THANET SAND FORMATION)                                                                                                                                                                                                           |               |                   |                         |
| 33.00-33.24               | 39 | SPT  | 16,9/21,29<br>for 50mm<br>N=120* |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 33.00-33.50               | 40 | B    |                                  |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 34.50-34.64               | 41 | SPT  | 25/47,3<br>for 5mm<br>N=188*     |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 35.00                     | 21 | ES   | J+V                              |       |                            |                                                                                                                                                                                                                                                                 |               |                   |                         |
| 35.00                     |    | PID  | 0.0ppm                           |       |                            |                                                                                                                                                                                                                                                                 |               | (8.00)            |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress    |    |                  | General Remarks                                                            |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|-------------------------------|----|------------------|----------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                          | To | Duration (hh:mm) |                                                                            |
|                                                       |      |                |              |                        |             |                               |    |                  | bulb<br>7. No groundwater seepage observed by the driller during drilling. |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Plant Used: <b>Dando 2000</b> |    |                  | All dimensions in metres                                                   |
| Drilled By: <b>MW</b>                                 |      |                |              |                        |             | Logged By: <b>JBarron</b>     |    |                  | Scale: <b>1:50</b>                                                         |
| Checked By: <b>ST</b>                                 |      |                |              |                        |             | Checked By: <b>AGS</b>        |    |                  |                                                                            |



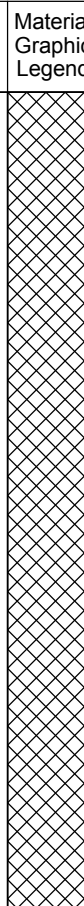
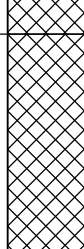
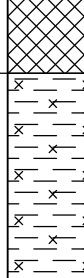
# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                          |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH12</b> |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>17.11.16</b><br>End: <b>23.11.16</b> | Ground Level:<br><b>16.05</b>              |  | National Grid Co-ordinate:<br><b>E:530973.0 N:182282.1</b> |                          | Sheet:<br><b>5 of 5</b> |

| Samples and In-situ Tests |    |           |                                 | Water | Backfill & Instru-<br>mentation | Description of Strata                                                                                     | Reduced Level | Depth (Thick-<br>ness) | Material<br>Graphic<br>Legend |
|---------------------------|----|-----------|---------------------------------|-------|---------------------------------|-----------------------------------------------------------------------------------------------------------|---------------|------------------------|-------------------------------|
| Depth                     | No | Type      | Results                         |       |                                 |                                                                                                           |               |                        |                               |
| 36.00-36.10               | 42 | SPT       | 23.2/25.25<br>for 7mm<br>N=882* |       |                                 | Very dense grey fine SAND.<br>(THANET SAND FORMATION)<br>(stratum copied from 32.00m from previous sheet) |               |                        |                               |
| 37.50-37.51               | 43 | SPT       | 25/50<br>for 7mm<br>N=2143*     |       |                                 |                                                                                                           |               |                        |                               |
| 39.00-39.02               | 44 | SPT       | 25/50<br>for 11mm<br>N=1364*    |       |                                 |                                                                                                           |               |                        |                               |
| 40.00<br>40.00            | 22 | ES<br>PID | J+V<br>0.0ppm                   |       |                                 | Borehole completed at 40.0m bgl.                                                                          | -23.95        | 40.00                  |                               |

| Boring Progress and Water Observations |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks |  |
|----------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|-----------------|--|
| Date                                   | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                 |  |
|                                        |      |                |              |                        |             |                            |    |                  |                 |  |
|                                        |      |                |              |                        |             |                            |    |                  |                 |  |
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| Samples and In-situ Tests |    |           |                                    | Water | Backfill & Instrumentation                                                                                                                                                                        | Description of Strata                                                                                                                                                                                                         | Reduced Level | Depth (Thickness)                                                                     | Material Graphic Legend                                                              |
|---------------------------|----|-----------|------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Depth                     | No | Type      | Results                            |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 0.00-1.20                 | 1  | B         |                                    |       |                                                                                                                 | MADE GROUND: Soft dark brown slightly sandy gravelly CLAY with low to medium cobble content of brick and concrete. Sand is fine to coarse. Gravel is subrounded to subangular fine to medium flint concrete brick and mortar. |               | (5.60)                                                                                |  |
| 0.50                      | 1  | ES<br>PID | J+V+T<br>0.1ppm                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 1.00                      | 2  | ES<br>PID | J+V+T<br>0.1ppm                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 1.50-1.81                 | 1  | SPT(c)    | 7,11/17,22,11<br>for 11mm<br>N=93* |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 1.50                      | 3  | ES<br>PID | J+V+T<br>0.3ppm                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 1.50-2.00                 | 2  | B         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 2.00                      | 4  | ES<br>PID | J+V+T<br>0.2ppm                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 2.20                      | 3  | D         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 2.50-2.95                 | 2  | SPT(c)    | 8,8/7,8,12,9<br>N=36               |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 2.50-3.00                 | 3  | B         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 2.50                      | 5  | ES<br>PID | J+V+T<br>0.2ppm                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 3.00                      | 6  | ES<br>PID | J+V+T<br>0.4ppm                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 3.20                      | 4  | D         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 3.30-3.60                 | 5  | B         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 3.50-3.95                 | 3  | SPT(c)    | 3,2/3,1,2,1<br>N=7                 |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 3.50                      | 7  | ES<br>PID | J+V+T<br>0.1ppm                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 3.60                      | 6  | D         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 3.60-4.00                 | 7  | B         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 4.00                      | 8  | ES<br>PID | J+V+T<br>0.1ppm                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 4.20                      | 8  | D         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 4.50-4.95                 | 9  | SPT       | 1,1/2,2,2,2<br>N=8                 |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 4.50-5.00                 | 10 | B         |                                    |       | MADE GROUND: Soft dark greyish brown very sandy slightly gravelly silty CLAY. Gravel is subrounded to subangular fine to coarse flint, concrete and brick. (Possible reworked alluvial material). |                                                                                                                                                                                                                               | (1.90)        |  |                                                                                      |
| 4.50                      | 9  | ES<br>PID | J+V+T<br>0.1ppm                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 4.50                      | 10 | ES<br>PID | J+V+T<br>0.2ppm                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 5.00                      | 11 | D         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 6.00                      | 11 | ES        | J+V+T                              |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 6.00-6.45                 | 12 | SPT       | 1/,1,1,1<br>N=3                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 6.00-6.50                 | 12 | B         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 6.00                      | 12 | PID       | 0.1ppm                             |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 7.00                      | 13 | D         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 7.00                      | 13 | PID       | 0.1ppm                             |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 7.50                      | 14 | D         |                                    |       | Stiff dark greyish brown fissured silty CLAY.<br>(LONDON CLAY FORMATION)                                                                                                                          |                                                                                                                                                                                                                               | 7.50          |  |                                                                                      |
| 7.50                      | 15 | U         | 109 blows<br>100% recovery         |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 7.90                      | 16 | D         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 8.00                      | 13 | ES<br>PID | J+V+T<br>0.1ppm                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
| 8.50                      | 17 | D         |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               |                                                                                       |                                                                                      |
|                           |    |           |                                    |       |                                                                                                                                                                                                   |                                                                                                                                                                                                                               |               | (3.00)                                                                                |                                                                                      |

RSK LIBRARY\_v8\_06.GLB LibVersion: v8\_06\_015 PrjVersion: v8\_06 - Core+Logs: -002 | Log CABLE PERCUSSION LOG - A4P | 28549\_MOUNT PLEASANT.GPJ - v8\_06; 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437550, Fax: 01442 437550, Web: www.rsk.co.uk. 30/01/17 - 12:02 | CB1 |



# BOREHOLE LOG

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH13</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>24.10.16</b><br>End: <b>28.10.16</b> | Ground Level: <b>14.69</b> | National Grid Co-ordinate: <b>E:531001.2 N:182249.2</b> |  | Sheet: <b>2 of 6</b>  |

| Samples and In-situ Tests |          |                |                              | Water | Backfill & Instrumentation | Description of Strata                                                                                                       | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----------|----------------|------------------------------|-------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No       | Type           | Results                      |       |                            |                                                                                                                             |               |                   |                         |
| 9.00<br>9.00-9.45         | 14<br>18 | ES<br>SPT      | J+V+T<br>3,4/4,5,6,6<br>N=21 |       |                            | Stiff dark greyish brown fissured silty CLAY.<br>(LONDON CLAY FORMATION)<br>(stratum copied from 7.50m from previous sheet) |               |                   |                         |
| 9.00-9.50<br>9.00         | 19       | B<br>PID       | 0.0ppm                       |       |                            |                                                                                                                             |               |                   |                         |
| 10.00<br>10.00<br>10.00   | 15<br>20 | ES<br>D<br>PID | J+V+T<br>0.0ppm              |       |                            |                                                                                                                             | 4.19          | 10.50             |                         |
| 10.50<br>10.50-10.95      | 21<br>22 | D<br>U         | 100 blows<br>100% recovery   |       |                            | Stiff becoming very stiff with depth light brown mottled bluish grey silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)    |               |                   |                         |
| 10.90                     | 23       | D              |                              |       |                            |                                                                                                                             |               |                   |                         |
| 12.00-12.45               | 24       | SPT            | 4,5/5,6,7,7<br>N=25          |       |                            |                                                                                                                             |               |                   |                         |
| 12.00-12.50               | 25       | B              |                              |       |                            |                                                                                                                             |               |                   |                         |
| 13.00<br>13.00<br>13.00   | 16<br>26 | ES<br>D<br>PID | J+V+T<br>0.0ppm              |       |                            |                                                                                                                             |               |                   |                         |
| 13.50-13.95               | 27       | U              | 98 blows<br>100% recovery    |       |                            |                                                                                                                             |               |                   |                         |
| 13.90                     | 28       | D              |                              |       |                            |                                                                                                                             |               | (7.50)            |                         |
| 14.50                     | 29       | D              |                              |       |                            |                                                                                                                             |               |                   |                         |
| 15.00-15.45               | 30       | SPT            | 5,6/9,11,12,12<br>N=44       |       |                            |                                                                                                                             |               |                   |                         |
| 15.00-15.50               | 31       | B              |                              |       |                            |                                                                                                                             |               |                   |                         |
| 15.50                     | 31       | D              |                              |       |                            |                                                                                                                             |               |                   |                         |
| 16.00<br>16.00            | 32       | D<br>PID       | 0.0ppm                       |       |                            |                                                                                                                             |               |                   |                         |
| 16.50-16.95               | 33       | SPT            | 6,7/11,10,12,12<br>N=45      |       |                            |                                                                                                                             |               |                   |                         |
| 16.50-17.00               | 34       | B              |                              |       |                            |                                                                                                                             |               |                   |                         |
| 17.50                     | 35       | D              |                              |       |                            |                                                                                                                             | -3.31         | 18.00             |                         |

| Boring Progress and Water Observations |       |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks |
|----------------------------------------|-------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|-----------------|
| Date                                   | Time  | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                 |
| 28/10/16                               | 15:21 |                | -            |                        |             |                            |    |                  |                 |
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|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH13</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>24.10.16</b><br>End: <b>28.10.16</b> | Ground Level: <b>14.69</b> | National Grid Co-ordinate: <b>E:531001.2 N:182249.2</b> |  | Sheet: <b>3 of 6</b>  |

| Samples and In-situ Tests |    |      |                            | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                    | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|----------------------------|-------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results                    |       |                            |                                                                                                                                                                                                                          |               |                   |                         |
| 18.00-18.45               | 36 | U    | 98 blows<br>100% recovery  |       |                            | Stiff to very stiff bluish grey mottled orangish brown fissured slightly sandy silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)                                                                                       | -3.81         | (0.50)            |                         |
| 18.40                     | 37 | D    |                            |       |                            | Stiff dark grey to grey silty sandy CLAY. Sand is fine.<br>(LAMBETH GROUP - LAMINATED BEDS)                                                                                                                              |               | 18.50             |                         |
| 18.50                     | 38 | D    |                            |       |                            |                                                                                                                                                                                                                          |               |                   |                         |
| 19.00                     | 18 | ES   | J+V+T                      |       |                            |                                                                                                                                                                                                                          |               | (2.00)            |                         |
| 19.00                     | 39 | D    |                            |       |                            |                                                                                                                                                                                                                          |               |                   |                         |
| 19.50-19.95               | 40 | SPT  | 2,3/6,7,7,7<br>N=27        |       |                            |                                                                                                                                                                                                                          |               |                   |                         |
| 19.50-20.00               | 41 | B    |                            |       |                            |                                                                                                                                                                                                                          |               |                   |                         |
| 20.00                     |    | PID  | 0.0ppm                     |       |                            |                                                                                                                                                                                                                          | -5.81         | 20.50             |                         |
| 20.50                     | 42 | D    |                            |       |                            | Stiff to very stiff bluish grey mottled orangish brown fissured slightly sandy CLAY.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)                                                                                             |               |                   |                         |
| 21.00-21.45               | 43 | U    | 106 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                          |               | (1.50)            |                         |
| 21.40                     | 44 | D    |                            |       |                            |                                                                                                                                                                                                                          | -7.31         | 22.00             |                         |
| 22.00                     | 45 | D    |                            |       |                            | Dense light orangish brown slightly silty fine to medium SAND.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS - SAND CHANNEL)                                                                                                    |               | (1.40)            |                         |
| 22.50-22.95               | 46 | SPT  | 6,7/8,9,9,10<br>N=36       |       |                            |                                                                                                                                                                                                                          | -8.71         | 23.40             |                         |
| 22.50-23.00               | 47 | B    |                            |       |                            |                                                                                                                                                                                                                          |               |                   |                         |
| 23.40                     | 48 | D    |                            |       |                            | Stiff to very stiff bluish grey mottled reddish brown fissured slightly sandy slightly silty CLAY.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)                                                                               |               | (1.00)            |                         |
| 24.00-24.45               | 49 | U    | 103 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                          | -9.71         | 24.40             |                         |
| 24.40                     | 50 | D    |                            |       |                            |                                                                                                                                                                                                                          |               | (1.10)            |                         |
| 25.00                     | 20 | ES   |                            |       |                            | Stiff to very stiff dark orangish brown to dark bluish grey slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is subrounded to angular fine to medium flint.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS) | -10.81        | 25.50             |                         |
| 25.00                     | 51 | D    | 0.0ppm                     |       |                            |                                                                                                                                                                                                                          |               |                   |                         |
| 25.00                     |    | PID  |                            |       |                            |                                                                                                                                                                                                                          |               |                   |                         |
| 25.50                     | 52 | D    |                            |       |                            |                                                                                                                                                                                                                          |               |                   |                         |
| 25.50-25.95               | 53 | SPT  | 9,11/11,12,13,13<br>N=49   |       |                            | Stiff to very stiff light orangish brown to light bluish grey slightly sandy CLAY. Sand is fine to coarse.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)                                                                       |               |                   |                         |
| 25.50-26.00               | 54 | B    |                            |       |                            |                                                                                                                                                                                                                          |               |                   |                         |
| 26.50                     | 55 | D    |                            |       |                            |                                                                                                                                                                                                                          |               | (3.00)            |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                                         |
|                                                       |      |                |              |                        |             |                            |    |                  | bgl; sand filter from 4.0m to 4.5m bgl and 22.5m to 23.0m bgl & bentonite seal/grouting between 0.2m and 1.0m bgl; 2.0m to 4.0m bgl; 8.0m to 10.0m bgl & 26.0m to 30m bgl with compacted backfill (sand/clay) between 10.0m to 26m bgl and 30m bgl to base of borehole and installation of flush cover. |
|                                                       |      |                |              |                        |             |                            |    |                  |                                                                                                                                                                                                                                                                                                         |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Drilled By: <b>MC</b>      |    |                  | All dimensions in metres                                                                                                                                                                                                                                                                                |
| Plant Used: <b>Dando 3000</b>                         |      |                |              |                        |             | Logged By: <b>JBarron</b>  |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                                                                                      |
|                                                       |      |                |              |                        |             | Checked By: <b>ST</b>      |    |                  |                                                                                                                                                                                                                                                                                                         |



# BOREHOLE LOG

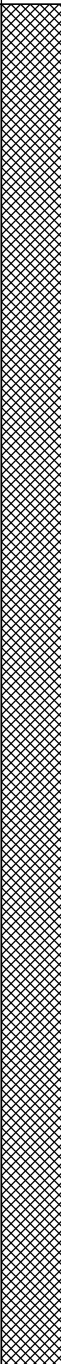
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|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|--|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH13</b> |                         |  |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>24.10.16</b><br>End: <b>28.10.16</b> | Ground Level:<br><b>14.69</b>              |  | National Grid Co-ordinate:<br><b>E:531001.2 N:182249.2</b> |                          | Sheet:<br><b>4 of 6</b> |  |

| Samples and In-situ Tests |     |      |                             | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                  | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|-----|------|-----------------------------|-------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No  | Type | Results                     |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 27.00-27.45               | 56  | U    | 130 blows<br>100% recovery  |       |                            | Stiff to very stiff light orangish brown to light bluish grey slightly sandy CLAY. Sand is fine to coarse.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)<br>(stratum copied from 25.50m from previous sheet) |               |                   |                         |
| 27.40                     | 57  | D    |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 28.00                     | 58  | D    |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 28.50-28.95               | 59  | SPT  | 7,9/10,10,12,12<br>N=44     |       |                            |                                                                                                                                                                                                        | -13.81        | 28.50             |                         |
| 28.50                     | 60  | D    |                             |       |                            | Dark greenish grey to dark orangish brown clayey slightly gravelly fine to coarse SAND. Gravel is rounded medium to coarse flint.<br>(LAMBETH GROUP - UPNOR FORMATION)                                 |               |                   |                         |
| 28.50-29.00               | 61  | B    |                             |       |                            |                                                                                                                                                                                                        |               | (1.50)            |                         |
| 29.50                     | 62  | D    |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 30.00                     | 21  | ES   |                             |       |                            | Very dense dark grey slightly silty fine to coarse SAND.<br>(THANET SAND FORMATION)                                                                                                                    | -15.31        | 30.00             |                         |
| 30.00-30.09               | 63  | SPT  | 25/50<br>for 31mm<br>N=484* |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 30.00                     | 64  | D    |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 30.00-30.50               | 65  | B    |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 30.00                     | PID |      | 0.0ppm                      |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 31.00                     | 66  | D    |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 31.50-31.58               | 67  | SPT  | 25/50<br>for 43mm<br>N=349* |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 31.50-32.00               | 68  | B    |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 32.50                     | 69  | D    |                             |       |                            |                                                                                                                                                                                                        |               | (5.60)            |                         |
| 33.00-33.09               | 70  | SPT  | 25/50<br>for 50mm<br>N=300* |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 33.00-33.50               | 71  | B    |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 34.00                     | 72  | D    |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 34.50-34.58               | 73  | SPT  | 25/50<br>for 46mm<br>N=326* |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 34.50-35.00               | 74  | B    |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 35.00                     | 22  | ES   |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 35.00                     | PID |      | 0.0ppm                      |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| 35.50                     | 75  | D    |                             |       |                            |                                                                                                                                                                                                        | -20.91        | 35.60             |                         |
| 35.60                     | 76  | D    |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |
| Description on next sheet |     |      |                             |       |                            |                                                                                                                                                                                                        |               |                   |                         |

| Boring Progress and Water Observations |      |                                   |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks                                                                                                                                                   |    |            |  |         |             |  |    |     |
|----------------------------------------|------|-----------------------------------|--------------|------------------------|-------------|----------------------------|----|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------|--|---------|-------------|--|----|-----|
| Date                                   | Time | Borehole Depth                    | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                                                                                                                                                                   |    |            |  |         |             |  |    |     |
|                                        |      |                                   |              |                        |             |                            |    |                  |                                                                                                                                                                   |    |            |  |         |             |  |    |     |
|                                        |      |                                   |              |                        |             |                            |    |                  | 6. PID = Photo ionisation detector with 10.6eV bulb<br>7. Small rate of groundwater seepage observed by the driller at 7.5m bgl rising to 7.0m bgl after 20 mins. |    |            |  |         |             |  |    |     |
|                                        |      |                                   |              |                        |             |                            |    |                  | All dimensions in metres                                                                                                                                          |    |            |  |         |             |  |    |     |
| Method Used:                           |      | Inspection pit + Cable percussion |              | Plant Used:            |             | Dando 3000                 |    | Drilled By:      |                                                                                                                                                                   | MC | Logged By: |  | JBarron | Checked By: |  | ST | AGS |



|                                                   |                                                |                               |                                                            |  |                          |
|---------------------------------------------------|------------------------------------------------|-------------------------------|------------------------------------------------------------|--|--------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |                                                |                               | Client:<br><b>Royal Mail Group Limited</b>                 |  | Borehole:<br><b>BH13</b> |
| Contract Ref:<br><b>28549</b>                     | Start: <b>24.10.16</b><br>End: <b>28.10.16</b> | Ground Level:<br><b>14.69</b> | National Grid Co-ordinate:<br><b>E:531001.2 N:182249.2</b> |  | Sheet:<br><b>5 of 6</b>  |

| Samples and In-situ Tests |    |        |                                     | Water                                                                              | Backfill & Instru-<br>mentation                                                                                                                                                                          | Description of Strata | Reduced<br>Level | Depth<br>(Thick-<br>ness)                                                            | Material<br>Graphic<br>Legend                               |  |  |                                                                                       |         |  |                                                                                       |
|---------------------------|----|--------|-------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------|--|--|---------------------------------------------------------------------------------------|---------|--|---------------------------------------------------------------------------------------|
| Depth                     | No | Type   | Results                             |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 36.00-36.38               | 4  | SPT(c) | 6,8/12,14,14,10<br>for 9mm<br>N=64* |  | Recovery of dark greenish grey to white silty sandy subrounded to angular fine to coarse GRAVEL of flint and CHALK.<br>(WHITE CHALK SUBGROUP)<br><i>(stratum copied from 35.60m from previous sheet)</i> | -22.31                | (1.40)           |   |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 36.00-36.50               | 77 | B      |                                     |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 37.00                     | 78 | D      |                                     |                                                                                    | Recovery of off white gravelly silt of CHALK.<br>(WHITE CHALK SUBGROUP)                                                                                                                                  |                       |                  |  |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 37.50-37.60               | 79 | SPT    | 25/50<br>for 70mm<br>N=214*         |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 37.50-38.00               | 80 | LB     |                                     |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 38.50                     | 81 | D      |                                     |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 39.00-39.11               | 82 | SPT    | 25/50<br>for 60mm<br>N=250*         |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 39.00-39.50               | 83 | LB     |                                     |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 40.00                     | 23 | ES     |                                     |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 40.00                     | 84 | D      |                                     |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 40.00                     |    | PID    | 0.0ppm                              |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 40.50-40.53               | 98 | SPT    | 25/50<br>for 15mm<br>N=1000*        |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      | . . . Driller indicates probable flint cobble at 40.5m bgl. |  |  |  |         |  |                                                                                       |
| 41.00                     | 85 | D      |                                     |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 41.50-41.55               | 5  | SPT(c) | 25/50<br>for 16mm<br>N=938*         |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 41.50-42.00               | 86 | B      |                                     |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 42.50                     | 87 | D      |                                     |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 43.00-43.02               | 6  | SPT(c) | 25/50<br>for 12mm<br>N=1250*        |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 43.00-43.50               | 88 | B      |                                     |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       | (13.10) |  |  |
| 44.00                     | 89 | D      |                                     |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |
| 44.50-44.55               | 7  | SPT(c) | 25/50<br>for 26mm<br>N=577*         |                                                                                    |                                                                                                                                                                                                          |                       |                  |                                                                                      |                                                             |  |  |                                                                                       |         |  |                                                                                       |

| Boring Progress and Water Observations |      |                                   |              |                        |             | Chiselling / Slow Progress |                |                  | General Remarks    |                          |                |     |
|----------------------------------------|------|-----------------------------------|--------------|------------------------|-------------|----------------------------|----------------|------------------|--------------------|--------------------------|----------------|-----|
| Date                                   | Time | Borehole Depth                    | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To             | Duration (hh:mm) |                    |                          |                |     |
|                                        |      |                                   |              |                        |             |                            |                |                  |                    |                          |                |     |
|                                        |      |                                   |              |                        |             |                            |                |                  |                    | All dimensions in metres |                |     |
| Method Used:                           |      | Inspection pit + Cable percussion |              | Plant Used: Dando 3000 |             |                            | Drilled By: MC |                  | Logged By: JBarron |                          | Checked By: ST | AGS |

Log Cable Percussion Ltd  
 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT  
 Tel: 01442 437550, Fax: 01442 437550, Web: www.logcablepercussion.co.uk  
 30/01/17 - 12:03 | CB1 |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                          |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH13</b> |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>24.10.16</b><br>End: <b>28.10.16</b> | Ground Level:<br><b>14.69</b>              |  | National Grid Co-ordinate:<br><b>E:531001.2 N:182249.2</b> |                          | Sheet:<br><b>6 of 6</b> |

| Samples and In-situ Tests              |                |                          |                                           | Water | Backfill & Instru-mentation | Description of Strata                                                                                                                                                                        | Reduced Level | Depth (Thick-ness) | Material Graphic Legend |
|----------------------------------------|----------------|--------------------------|-------------------------------------------|-------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|-------------------------|
| Depth                                  | No             | Type                     | Results                                   |       |                             |                                                                                                                                                                                              |               |                    |                         |
| 44.50-45.00<br>45.00<br>45.00<br>45.50 | 90<br>24<br>91 | B<br>ES<br>PID<br>D      | 0.0ppm                                    |       |                             | Recovery of off white gravelly silt of CHALK.<br>(WHITE CHALK SUBGROUP)<br>(stratum copied from 37.00m from previous sheet)<br><br>... Driller indicates probable flint cobble at 45.9m bgl. |               |                    |                         |
| 46.00-46.01                            | 8              | SPT(c)                   | 25/50<br>for 3mm<br>N=5000*               |       |                             |                                                                                                                                                                                              |               |                    |                         |
| 47.00                                  | 92             | D                        |                                           |       |                             |                                                                                                                                                                                              |               |                    |                         |
| 47.50-47.56                            | 9              | SPT(c)                   | 25/50<br>for 40mm<br>N=375*               |       |                             |                                                                                                                                                                                              |               |                    |                         |
| 48.50                                  | 93             | D                        |                                           |       |                             |                                                                                                                                                                                              |               |                    |                         |
| 49.00-49.04<br>49.00-49.50             | 10<br>94       | SPT(c)<br>B              | 25/50<br>for 27mm<br>N=556*               |       |                             |                                                                                                                                                                                              |               |                    |                         |
| 50.00-50.03<br>50.00<br>50.00<br>50.00 | 11<br>25<br>95 | SPT(c)<br>ES<br>D<br>PID | 25/50<br>for 23mm<br>N=652*<br><br>0.0ppm |       |                             | Borehole completed at 50.1m bgl.                                                                                                                                                             | -35.41        | 50.10              |                         |

| Boring Progress and Water Observations |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks |  |
|----------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|-----------------|--|
| Date                                   | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                 |  |
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|                                        |      |                |              |                        |             |                            |    |                  |                 |  |
|                                        |      |                |              |                        |             |                            |    |                  |                 |  |
|                                        |      |                |              |                        |             |                            |    |                  |                 |  |

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH14</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>21.11.16</b><br>End: <b>24.11.16</b> | Ground Level: <b>14.20</b> | National Grid Co-ordinate: <b>E:531011.6 N:182176.9</b> |  | Sheet: <b>1 of 5</b>  |

| Samples and In-situ Tests |    |        |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                                   | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|--------|---------------------------|-------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type   | Results                   |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 0.00-0.50                 | 1  | B      |                           |       |                            | MADE GROUND: Asphalt.                                                                                                                                                                                                                                   | 14.00         | 0.20              |                         |
| 0.50                      | 1  | ES     | J+V+T                     |       |                            | MADE GROUND: Dark brownish grey SAND and GRAVEL with a high cobble content. Sand is fine to coarse. Gravel is subrounded to subangular fine to coarse of concrete, brick and flint. Cobbles are of concrete and brick. With occasional ash and clinker. |               |                   |                         |
| 0.50-1.00                 | 2  | B      |                           |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 0.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 1.00                      | 2  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 1.00                      |    | PID    | 0.1ppm                    |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 1.10                      | 1  | D      |                           |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 1.20-1.65                 | 1  | SPT(c) | 1,2/2,3,2,3<br>N=10       |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 1.20-1.70                 | 3  | B      |                           |       |                            |                                                                                                                                                                                                                                                         |               | (3.60)            |                         |
| 1.50                      | 3  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 1.50                      |    | PID    | 0.1ppm                    |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 1.90                      | 2  | D      |                           |       |                            | MADE GROUND: Brown very clayey SAND and GRAVEL. Sand is fine to coarse. Gravel is subangular fine to coarse flint and brick.                                                                                                                            |               |                   |                         |
| 2.00-2.45                 | 2  | SPT(c) | 0,1/1<br>N=1              |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 2.00                      | 4  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 2.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 2.01-2.50                 | 4  | B      |                           |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 2.50                      | 5  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 2.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 2.80                      | 3  | D      |                           |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 3.00-3.45                 | 3  | SPT(c) | 1,2/2,1,1<br>N=4          |       |                            |                                                                                                                                                                                                                                                         | 10.40         | 3.80              |                         |
| 3.00-3.50                 | 5  | B      |                           |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 3.00                      | 6  | ES     | J+V+T                     |       |                            | MADE GROUND: Dark grey sandy gravelly silty CLAY. Gravel is rounded to subangular fine to coarse of flint and brick.                                                                                                                                    |               |                   |                         |
| 3.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 3.50                      | 7  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                         |               | (1.20)            |                         |
| 3.50                      |    | PID    | 0.1ppm                    |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 3.80                      | 4  | D      |                           |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 4.00-4.45                 | 4  | SPT(c) | 1,1/1,1<br>N=2            |       |                            |                                                                                                                                                                                                                                                         | 9.20          | 5.00              |                         |
| 4.00-4.50                 | 6  | B      |                           |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 4.00                      | 8  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 4.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 4.50                      | 9  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                         |               | (1.00)            |                         |
| 4.50                      |    | PID    | 0.0ppm                    |       |                            | Firm brown mottled light bluish grey CLAY. (LONDON CLAY FORMATION)                                                                                                                                                                                      |               |                   |                         |
| 4.80                      | 5  | D      |                           |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 5.00-5.45                 | 5  | SPT(c) | 0,1/1,1<br>N=2            |       |                            |                                                                                                                                                                                                                                                         | 8.20          | 6.00              |                         |
| 5.00                      | 10 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 5.00-5.50                 | 7  | B      |                           |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 5.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 6.00                      | 6  | D      |                           |       |                            |                                                                                                                                                                                                                                                         |               | (1.50)            |                         |
| 6.00                      | 11 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 6.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 6.20                      | 7  | D      |                           |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 6.50-6.95                 | 6  | SPT    | 2,3/3,4,4<br>N=15         |       |                            | Firm to stiff brownish grey extremely closely spaced silty CLAY. With rare relict roots and possible selenite crystals. (LONDON CLAY FORMATION)                                                                                                         |               |                   |                         |
| 7.00                      | 12 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                         | 6.70          | 7.50              |                         |
| 7.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 7.50                      | 8  | D      |                           |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 8.00-8.45                 | 1  | U      | 50 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 8.00                      | 13 | ES     | J+V                       |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 8.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
| 8.50                      | 9  | D      |                           |       |                            |                                                                                                                                                                                                                                                         |               |                   |                         |
|                           |    |        |                           |       |                            |                                                                                                                                                                                                                                                         |               | (3.00)            |                         |

| Boring Progress and Water Observations |                                   |                |              |                        |             | Chiselling / Slow Progress |             |                  | General Remarks |            |         |  |             |    |     |
|----------------------------------------|-----------------------------------|----------------|--------------|------------------------|-------------|----------------------------|-------------|------------------|-----------------|------------|---------|--|-------------|----|-----|
| Date                                   | Time                              | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To          | Duration (hh:mm) |                 |            |         |  |             |    |     |
| 21/11/16                               | 08:32                             | 9.00           | 9.00         | 250                    | 26.50       |                            |             |                  |                 |            |         |  |             |    |     |
| 21/11/16                               | 17:32                             | 9.50           | 9.50         | 250                    |             |                            |             |                  |                 |            |         |  |             |    |     |
| 23/11/16                               | 07:32                             | 9.50           | 9.50         | 250                    |             |                            |             |                  |                 |            |         |  |             |    |     |
| 23/11/16                               | 15:32                             | 26.50          | 26.50        | 200                    |             |                            |             |                  |                 |            |         |  |             |    |     |
| 23/11/16                               | 17:32                             | 27.50          | 27.50        | 200                    |             |                            |             |                  |                 |            |         |  |             |    |     |
| 24/11/16                               | 16:17                             | 40.00          | 28.00        | 200                    |             |                            |             |                  |                 |            |         |  |             |    |     |
|                                        |                                   |                |              |                        |             |                            |             |                  |                 |            |         |  |             |    |     |
|                                        |                                   |                |              |                        |             |                            |             |                  |                 |            |         |  |             |    |     |
| All dimensions in metres               |                                   |                |              |                        |             |                            |             |                  | Scale: 1:50     |            |         |  |             |    |     |
| Method Used:                           | Inspection pit + Cable percussion |                |              | Plant Used:            | Dando 2000  |                            | Drilled By: | DH               |                 | Logged By: | JBarron |  | Checked By: | ST | AGS |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |                               |  |                                                            |  |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|-------------------------------|--|------------------------------------------------------------|--|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |                               |  | Borehole:<br><b>BH14</b>                                   |  |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>21.11.16</b><br>End: <b>24.11.16</b> |                                            | Ground Level:<br><b>14.20</b> |  | National Grid Co-ordinate:<br><b>E:531011.6 N:182176.9</b> |  | Sheet:<br><b>2 of 5</b> |

| Samples and In-situ Tests |          |                |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                 | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----------|----------------|---------------------------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No       | Type           | Results                   |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 9.00<br>9.00<br>9.00      | 10<br>14 | D<br>ES<br>PID | J+V<br>0.0ppm             |       |                            | Firm to stiff brownish grey extremely closely spaced silty CLAY. With rare relict roots and possible selenite crystals.<br>(LONDON CLAY FORMATION)<br>(stratum copied from 7.50m from previous sheet) |               |                   |                         |
| 9.50-9.95                 | 7        | SPT            | 3,3/4,5,6,5<br>N=20       |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 10.00<br>10.00            | 15       | ES<br>PID      | J+V<br>0.0ppm             |       |                            |                                                                                                                                                                                                       | 3.70          | 10.50             |                         |
| 10.50<br>10.50            | 11<br>12 | D<br>D         |                           |       |                            | Stiff to very stiff light reddish brown mottled light bluish grey closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)                                                         |               |                   |                         |
| 11.00-11.45               | 2        | U              | 65 blows<br>100% recovery |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 11.50                     | 13       | D              |                           |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 12.00                     | 14       | D              |                           |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 12.50-12.95               | 8        | SPT            | 5,5/6,7,7,7<br>N=27       |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 13.00<br>13.00            | 16       | ES<br>PID      | J+V<br>0.0ppm             |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 13.50                     | 15       | D              |                           |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 14.00-14.45               | 3        | U              | 70 blows<br>100% recovery |       |                            |                                                                                                                                                                                                       |               | (7.00)            |                         |
| 14.50                     | 16       | D              |                           |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 15.00                     | 17       | D              |                           |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 15.50-15.95               | 9        | SPT            | 5,6/7,9,10,9<br>N=35      |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 16.00<br>16.00            | 17       | ES<br>PID      | J+V<br>0.0ppm             |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 16.50                     | 18       | D              |                           |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 17.00-17.45               | 4        | U              | 75 blows<br>100% recovery |       |                            |                                                                                                                                                                                                       |               |                   |                         |
| 17.50                     | 19       | D              |                           |       |                            | Description on next sheet                                                                                                                                                                             | -3.30         | 17.50             |                         |

| Boring Progress and Water Observations |                                   |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks                                                                                                                                                                                                                                                                       |                |     |
|----------------------------------------|-----------------------------------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|
| Date                                   | Time                              | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                       |                |     |
|                                        |                                   |                |              |                        |             |                            |    |                  |                                                                                                                                                                                                                                                                                       |                |     |
|                                        |                                   |                |              |                        |             |                            |    |                  |                                                                                                                                                                                                                                                                                       |                |     |
|                                        |                                   |                |              |                        |             |                            |    |                  | 4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 2.0 and 6.0mbgl. Pipe 2 - 50mm HDPE response zone 20m to 27m bgl.<br>5. Borehole backfilled with 3mm shingle gravel filter between 2.0m to 6.0mbgl & 20.0m to 27.0m bgl; sand filter from 1.5m to 2.0m bgl |                |     |
|                                        |                                   |                |              |                        |             |                            |    |                  | All dimensions in metres                                                                                                                                                                                                                                                              | Scale: 1:50    |     |
| Method Used:                           | Inspection pit + Cable percussion |                | Plant Used:  | Dando 2000             |             | Drilled By:                | DH |                  | Logged By: JBarron                                                                                                                                                                                                                                                                    | Checked By: ST | AGS |



# BOREHOLE LOG

|                                                   |                                                |                               |                                                            |  |                          |
|---------------------------------------------------|------------------------------------------------|-------------------------------|------------------------------------------------------------|--|--------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |                                                |                               | Client:<br><b>Royal Mail Group Limited</b>                 |  | Borehole:<br><b>BH14</b> |
| Contract Ref:<br><b>28549</b>                     | Start: <b>21.11.16</b><br>End: <b>24.11.16</b> | Ground Level:<br><b>14.20</b> | National Grid Co-ordinate:<br><b>E:531011.6 N:182176.9</b> |  | Sheet:<br><b>3 of 5</b>  |

| Samples and In-situ Tests  |          |             |                                | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                         | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|----------------------------|----------|-------------|--------------------------------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                      | No       | Type        | Results                        |       |                            |                                                                                                                                                                                                                               |               |                   |                         |
| 18.00                      | 20       | D           |                                |       |                            | Firm to stiff light grey and dark grey interlaminated SILT and silty CLAY with closely spaced thin laminations of lignitic material.<br>(LAMBETH GROUP - LAMINATED BEDS)<br>(stratum copied from 17.50m from previous sheet)  |               |                   |                         |
| 18.50-18.95                | 10       | SPT         | 7,7/9,10,10,12<br>N=41         |       |                            |                                                                                                                                                                                                                               |               | (2.00)            |                         |
| 19.00<br>19.00             | 18       | ES<br>PID   | J+V<br>0.0ppm                  |       |                            |                                                                                                                                                                                                                               |               |                   |                         |
| 19.50                      | 21       | D           |                                |       |                            |                                                                                                                                                                                                                               | -5.30         | 19.50             |                         |
| 20.00-20.45                | 5        | U           | 85 blows<br>100% recovery      |       |                            | Very stiff light greenish grey mottled orangish brown fissured silty CLAY.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)<br><br>... At 20.5m bgl slightly sandy. Sand is fine.<br><br>... At 21.0m bgl red mottling.                |               |                   |                         |
| 20.50                      | 22       | D           |                                |       |                            |                                                                                                                                                                                                                               |               |                   |                         |
| 21.00                      | 23       | D           |                                |       |                            |                                                                                                                                                                                                                               |               | (3.20)            |                         |
| 21.50-21.95                | 11       | SPT         | 7,8/9,11,10,11<br>N=41         |       |                            |                                                                                                                                                                                                                               |               |                   |                         |
| 22.00<br>22.00             | 19       | ES<br>PID   | J+V<br>0.0ppm                  |       |                            | Very dense light green to black sandy clayey fine to coarse GRAVEL. Sand is fine to coarse Quartz. Gravel is subrounded to rounded fine to coarse of black pebbles of mixed lithologies.<br>(LAMBETH GROUP - UPNOR FORMATION) |               |                   |                         |
| 22.50                      | 24       | D           |                                |       |                            |                                                                                                                                                                                                                               | -8.50         | 22.70             |                         |
| 22.70                      | 25       | D           |                                |       |                            |                                                                                                                                                                                                                               |               |                   |                         |
| 23.00-23.50<br>23.00-23.18 | 8<br>12  | B<br>SPT(c) | 19,6/50<br>for 75mm<br>N=200*  |       |                            |                                                                                                                                                                                                                               |               |                   |                         |
| 24.00                      | 26       | D           |                                |       |                            |                                                                                                                                                                                                                               |               |                   |                         |
| 24.50-25.00<br>24.50-24.68 | 9<br>13  | B<br>SPT(c) | 25/37,13<br>for 25mm<br>N=150* |       |                            |                                                                                                                                                                                                                               |               | (4.80)            |                         |
| 25.50                      | 27       | D           |                                |       |                            |                                                                                                                                                                                                                               |               |                   |                         |
| 26.00-26.50<br>26.00-26.45 | 10<br>14 | B<br>SPT(c) | 7,8/10,7,10,11<br>N=38         |       |                            |                                                                                                                                                                                                                               |               |                   |                         |

| Boring Progress and Water Observations |                                          |                |              |                        |                   | Chiselling / Slow Progress |             |                  | General Remarks                                                                                                                                                                                                                                                           |                    |             |           |            |
|----------------------------------------|------------------------------------------|----------------|--------------|------------------------|-------------------|----------------------------|-------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|-----------|------------|
| Date                                   | Time                                     | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth       | From                       | To          | Duration (hh:mm) |                                                                                                                                                                                                                                                                           |                    |             |           |            |
|                                        |                                          |                |              |                        |                   |                            |             |                  |                                                                                                                                                                                                                                                                           |                    |             |           |            |
|                                        |                                          |                |              |                        |                   |                            |             |                  |                                                                                                                                                                                                                                                                           |                    |             |           |            |
|                                        |                                          |                |              |                        |                   |                            |             |                  | and 19.5m to 20.0m bgl & bentonite seal/grouting between 0.2m and 1.5m bgl; 6.0m to 20.0m bgl; 27.0m to 30.0m bgl with compacted backfill (sand/clay) from 30m bgl to base of borehole and installation of flush cover.<br>6. PID = Photo ionisation detector with 10.6eV |                    |             |           |            |
|                                        |                                          |                |              |                        |                   |                            |             |                  | All dimensions in metres                                                                                                                                                                                                                                                  | Scale: <b>1:50</b> |             |           |            |
| Method Used:                           | <b>Inspection pit + Cable percussion</b> |                |              | Plant Used:            | <b>Dando 2000</b> |                            | Drilled By: | <b>DH</b>        | Logged By:                                                                                                                                                                                                                                                                | <b>JBarron</b>     | Checked By: | <b>ST</b> | <b>AGS</b> |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                          |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH14</b> |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>21.11.16</b><br>End: <b>24.11.16</b> | Ground Level:<br><b>14.20</b>              |  | National Grid Co-ordinate:<br><b>E:531011.6 N:182176.9</b> |                          | Sheet:<br><b>4 of 5</b> |

| Samples and In-situ Tests |    |      |                               | Water | Backfill & Instru-mentation | Description of Strata                                                | Reduced Level | Depth (Thick-ness) | Material Graphic Legend |
|---------------------------|----|------|-------------------------------|-------|-----------------------------|----------------------------------------------------------------------|---------------|--------------------|-------------------------|
| Depth                     | No | Type | Results                       |       |                             |                                                                      |               |                    |                         |
| 27.50-27.65               | 15 | SPT  | 19,6/50<br>for 50mm<br>N=300* |       |                             | Very dense grey slightly silty fine SAND.<br>(THANET SAND FORMATION) | -13.30        | 27.50              |                         |
| 27.50                     | 28 | D    |                               |       |                             |                                                                      |               |                    |                         |
| 28.00                     | 20 | ES   | J+V                           |       |                             |                                                                      |               |                    |                         |
| 28.00                     |    | PID  | 0.0ppm                        |       |                             |                                                                      |               |                    |                         |
| 28.50                     | 29 | D    |                               |       |                             |                                                                      |               |                    |                         |
| 29.00-29.10               | 16 | SPT  | 25/50<br>for 50mm<br>N=300*   |       |                             |                                                                      |               |                    |                         |
| 30.00                     | 30 | D    |                               |       |                             |                                                                      |               |                    |                         |
| 30.50-30.60               | 17 | SPT  | 25/50<br>for 50mm<br>N=300*   |       |                             |                                                                      |               |                    |                         |
| 31.50                     | 31 | D    |                               |       |                             |                                                                      |               |                    |                         |
| 32.00-32.13               | 18 | SPT  | 25/50<br>for 50mm<br>N=300*   |       |                             |                                                                      |               |                    |                         |
| 33.00                     | 21 | ES   | J+V                           |       |                             |                                                                      |               |                    |                         |
| 33.00                     | 32 | D    |                               |       |                             |                                                                      |               |                    |                         |
| 33.00                     |    | PID  | 0.0ppm                        |       |                             |                                                                      |               |                    |                         |
| 33.50-33.65               | 19 | SPT  | 19,6/50<br>for 50mm<br>N=300* |       |                             |                                                                      |               |                    |                         |
| 34.50                     | 33 | D    |                               |       |                             |                                                                      |               |                    |                         |
| 35.00-35.15               | 20 | SPT  | 25/50<br>for 70mm<br>N=214*   |       |                             |                                                                      |               |                    |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress    |    |                  | General Remarks                                                                                                                                                                                                                 |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|-------------------------------|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                          | To | Duration (hh:mm) |                                                                                                                                                                                                                                 |
|                                                       |      |                |              |                        |             |                               |    |                  | bulb<br>7. Small seepage observed by driller at 9.0m bgl sealed out at 9.5m bgl.<br>8. Small seepage observed by driller at 26.5m bgl sealed out at 27.5m bgl.<br>9. 300L water added to the borehole to drill the Thanet Sand. |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Plant Used: <b>Dando 2000</b> |    |                  | All dimensions in metres                                                                                                                                                                                                        |
| Drilled By: <b>DH</b>                                 |      |                |              |                        |             | Logged By: <b>JBarron</b>     |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                              |
| Checked By: <b>ST</b>                                 |      |                |              |                        |             | Checked By: <b>AGS</b>        |    |                  |                                                                                                                                                                                                                                 |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                          |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH14</b> |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>21.11.16</b><br>End: <b>24.11.16</b> | Ground Level:<br><b>14.20</b>              |  | National Grid Co-ordinate:<br><b>E:531011.6 N:182176.9</b> |                          | Sheet:<br><b>5 of 5</b> |

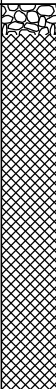
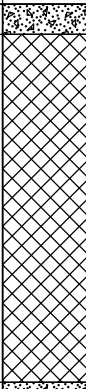
| Samples and In-situ Tests        |     |        |                               | Water | Backfill & Instru-<br>mentation | Description of Strata                                                                                                                    | Reduced Level | Depth (Thick-<br>ness) | Material<br>Graphic<br>Legend |
|----------------------------------|-----|--------|-------------------------------|-------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|-------------------------------|
| Depth                            | No  | Type   | Results                       |       |                                 |                                                                                                                                          |               |                        |                               |
| 36.00                            | 34  | D      |                               |       |                                 | Very dense grey slightly silty fine SAND.<br>(THANET SAND FORMATION)<br>(stratum copied from 27.50m from previous sheet)                 |               |                        |                               |
| 36.50-36.60                      | 21  | SPT    | 25/50<br>for 50mm<br>N=300*   |       |                                 |                                                                                                                                          |               |                        |                               |
| 37.50                            | 35  | D      |                               |       |                                 |                                                                                                                                          | -23.60        | 37.80                  |                               |
| 38.00                            | 22  | ES     | J+V                           |       |                                 | Recovery of greenish white sandy chalky sub-angular fine to<br>coarse GRAVEL of flint. (WHITE CHALK SUBGROUP).<br>(WHITE CHALK SUBGROUP) |               |                        |                               |
| 38.00-39.00                      | 36  | D      |                               |       |                                 |                                                                                                                                          |               |                        |                               |
| 38.00                            | PID |        | 0.0ppm                        |       |                                 |                                                                                                                                          |               |                        |                               |
| 38.01-38.16                      | 22  | SPT(c) | 19,6/50<br>for 50mm<br>N=300* |       |                                 |                                                                                                                                          |               | (2.20)                 |                               |
| 39.50-39.63                      | 23  | SPT(c) | 25/50<br>for 75mm<br>N=200*   |       |                                 |                                                                                                                                          |               |                        |                               |
| 39.50-40.00                      | 37  | D      |                               |       |                                 |                                                                                                                                          | -25.80        | 40.00                  |                               |
| Borehole completed at 40.0m bgl. |     |        |                               |       |                                 |                                                                                                                                          |               |                        |                               |

| Boring Progress and Water Observations |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks |  |
|----------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|-----------------|--|
| Date                                   | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                 |  |
|                                        |      |                |              |                        |             |                            |    |                  |                 |  |
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# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                          |                         |  |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|--|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH15</b> |                         |  |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>11.11.16</b><br>End: <b>11.11.16</b> | Ground Level:<br><b>14.81</b>              |  | National Grid Co-ordinate:<br><b>E:530963.0 N:182225.0</b> |                          | Sheet:<br><b>1 of 1</b> |  |

| Samples and In-situ Tests |    |        |                      | Water | Backfill                                                                           | Description of Strata                                                                                               | Reduced Level | Depth (Thickness) | Material Graphic Legend                                                              |
|---------------------------|----|--------|----------------------|-------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------|-------------------|--------------------------------------------------------------------------------------|
| Depth                     | No | Type   | Results              |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |
| 0.00-0.50                 | 1  | ES     | 0.0ppm               |       |   | MADE GROUND: Concrete.                                                                                              | 14.61         | 0.20              |   |
| 0.00-0.50                 | 1  | B      |                      |       |                                                                                    | MADE GROUND: Brown silty sand and gravel with high cobble content of concrete and brick with frequent whole bricks. |               |                   |                                                                                      |
| 0.00                      |    | PID    |                      |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |
|                           |    |        |                      |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |
| 1.00                      | 1  | D      |                      |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |
| 1.00                      | 2  | ES     |                      |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |
| 1.00                      |    | PID    |                      |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |
| 1.20-1.65                 | 1  | SPT(c) | 1,2/3,2,3,3<br>N=11  |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |
| 1.20-1.70                 | 2  | B      |                      |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |
| 1.50                      | 3  | ES     |                      |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |
| 1.50                      |    | PID    |                      |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |
| 1.90                      | 2  | D      |                      |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |
| 2.00-2.45                 | 2  | SPT(c) | 2,2/2,1,2,13<br>N=18 |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |
| 2.00-2.50                 | 3  | B      | 0.0ppm               |       |  | MADE GROUND: Concrete. Driller indicates possible slab.                                                             | 12.31         | 2.50              |  |
| 2.00                      | 4  | ES     |                      |       |                                                                                    | Refusal at 2.6m bgl due to concrete obstruction.                                                                    | 12.21         | 2.60              |                                                                                      |
| 2.00                      |    | PID    |                      |       |                                                                                    |                                                                                                                     |               |                   |                                                                                      |

| Boring Progress and Water Observations |       |                |              |                        |             | Chiselling / Slow Progress |      |                  | General Remarks |                    |                |     |
|----------------------------------------|-------|----------------|--------------|------------------------|-------------|----------------------------|------|------------------|-----------------|--------------------|----------------|-----|
| Date                                   | Time  | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To   | Duration (hh:mm) |                 |                    |                |     |
| 11/11/16                               | 11:00 | 2.60           | 2.50         | 250                    | Dry         | 2.50                       | 2.60 | 01:00            |                 |                    |                |     |
|                                        |       |                |              |                        |             |                            |      |                  |                 |                    |                |     |
| Method Used: Inspection pit + Hand dug |       |                |              |                        |             | Plant Used: Dando 2000     |      |                  | Drilled By: DH  | Logged By: JBarron | Checked By: ST | AGS |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |                                                            |  |                           |  |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|------------------------------------------------------------|--|---------------------------|--|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |                                                            |  | Borehole:<br><b>BH15A</b> |  |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>11.11.16</b><br>End: <b>11.11.16</b> | Ground Level:<br><b>14.85</b>              | National Grid Co-ordinate:<br><b>E:530961.8 N:182223.9</b> |  | Sheet:<br><b>1 of 1</b>   |  |

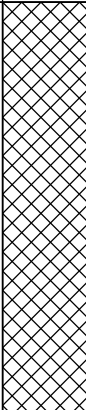
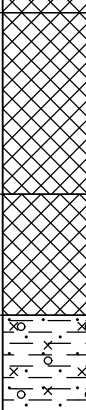
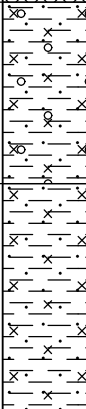
| Samples and In-situ Tests |    |      |         | Water | Backfill | Description of Strata                                                                                               | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|---------|-------|----------|---------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results |       |          |                                                                                                                     |               |                   |                         |
|                           |    |      |         |       |          | MADE GROUND: Concrete.                                                                                              | 14.65         | 0.20              |                         |
|                           |    |      |         |       |          | MADE GROUND: Brown silty sand and gravel with high cobble content of concrete and brick with frequent whole bricks. |               | (2.30)            |                         |
|                           |    |      |         |       |          |                                                                                                                     | 12.35         | 2.50              |                         |
|                           |    |      |         |       |          | MADE GROUND: Concrete. Driller indicates possible slab.                                                             | 12.25         | 2.60              |                         |
|                           |    |      |         |       |          | Refusal at 2.6m bgl due to concrete obstruction.                                                                    |               |                   |                         |

| Boring Progress and Water Observations        |       |                |              |                        |             | Chiselling / Slow Progress    |      |                  | General Remarks                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------|-------|----------------|--------------|------------------------|-------------|-------------------------------|------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                          | Time  | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                          | To   | Duration (hh:mm) |                                                                                                                                                                                                                                                                                                             |
| 11/11/16                                      | 14:00 | 2.60           | 2.50         | 250                    | Dry         | 2.00                          | 2.60 | 01:00            | 1. Hand dug inspection pit to 1.20m bgl.<br>2. Borehole drilled to 2.6m bgl in 250mm diameter.<br>3. Borehole refused at 2.6m bgl. Driller indicated due to concrete obstruction.<br>4. Borehole backfilled and reinstated at surface with concrete.<br>5. PID = Photo ionisation detector with 10.6eV bulb |
| Method Used: <b>Inspection pit + Hand dug</b> |       |                |              |                        |             | Plant Used: <b>Dando 2000</b> |      |                  | All dimensions in metres                                                                                                                                                                                                                                                                                    |
| Drilled By: <b>DH</b>                         |       |                |              |                        |             | Logged By: <b>JBarron</b>     |      |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                                                                                          |
| Checked By: <b>ST</b>                         |       |                |              |                        |             | Checked By: <b>AGS</b>        |      |                  |                                                                                                                                                                                                                                                                                                             |



# BOREHOLE LOG

|                                                   |                                                |                               |                                                            |  |                           |
|---------------------------------------------------|------------------------------------------------|-------------------------------|------------------------------------------------------------|--|---------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |                                                |                               | Client:<br><b>Royal Mail Group Limited</b>                 |  | Borehole:<br><b>BH15B</b> |
| Contract Ref:<br><b>28549</b>                     | Start: <b>15.11.16</b><br>End: <b>17.11.16</b> | Ground Level:<br><b>17.61</b> | National Grid Co-ordinate:<br><b>E:530954.0 N:182232.8</b> |  | Sheet:<br><b>1 of 5</b>   |

| Samples and In-situ Tests |    |        |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                                                   | Reduced Level | Depth (Thickness) | Material Graphic Legend                                                               |        |
|---------------------------|----|--------|---------------------------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|---------------------------------------------------------------------------------------|--------|
| Depth                     | No | Type   | Results                   |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 0.00-0.50                 | 1  | B      |                           |       |                            | MADE GROUND: Loose light brown silty very gravelly fine to coarse SAND with a low cobble content. Sand is fine and coarse Quartz. Gravel is subrounded to angular fine to coarse Brick, concrete, flint, ceramics and slate. Cobbles are subangular Brick and concrete. |               |                   |    |        |
| 0.50                      | 1  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 0.50-1.00                 | 2  | B      |                           |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 0.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 1.00                      | 2  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 1.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 1.10                      | 1  | D      |                           |       |                            |                                                                                                                                                                                                                                                                         |               | (2.80)            |                                                                                       |        |
| 1.20-1.65                 | 1  | SPT(c) | 1,1/1,1,1<br>N=3          |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 1.20-1.70                 | 3  | B      |                           |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 1.50                      | 3  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 1.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 1.90                      | 2  | D      |                           |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 2.00-2.45                 | 2  | SPT(c) | 1,1/1,1,1<br>N=3          |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 2.00                      | 4  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                         | 14.81         | 2.80              |                                                                                       |        |
| 2.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 2.50                      | 5  | ES     | J+V+T                     |       |                            | MADE GROUND: Soft dark brown to black sandy slightly gravelly silty CLAY. Sand is fine to coarse Quartz. Gravel is well rounded to subangular fine to coarse Flint, brick and concrete.                                                                                 |               |                   |   |        |
| 2.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 2.80                      | 3  | D      |                           |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 3.00-3.45                 | 3  | SPT(c) | 0,1/1,1<br>N=2            |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 3.00                      | 6  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 3.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 3.50                      | 7  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                         |               | 13.61             |                                                                                       | 4.00   |
| 3.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 3.70                      | 4  | D      |                           |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 4.00-4.45                 | 4  | SPT(c) | 1,1/1,1,2<br>N=4          |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 4.00                      | 8  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                         |               | 12.81             |                                                                                       | 4.80   |
| 4.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 4.50                      | 9  | ES     | J+V+T                     |       |                            | Soft to firm light greenish brown mottled bluish grey slightly sandy slightly gravelly silty CLAY. Gravel is angular fine Flint. With occasional Relict roots weak organic odour (possible reworked London Clay.)                                                       |               |                   |  |        |
| 4.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 4.80                      | 5  | D      |                           |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 5.00-5.45                 | 5  | SPT    | 2,2/2,3,2,3<br>N=10       |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       | (1.20) |
| 5.00                      | 10 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 5.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                         |               | 11.61             |                                                                                       | 6.00   |
| 6.00                      | 6  | D      |                           |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 6.00                      | 11 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 6.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 6.50-6.95                 | 1  | U      | 40 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 7.00                      | 7  | D      |                           |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 7.00                      | 12 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                         |               | (2.50)            |                                                                                       |        |
| 7.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 7.50                      | 8  | D      |                           |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 8.00-8.45                 | 6  | SPT    | 2,2/2,3,3,4<br>N=12       |       |                            |                                                                                                                                                                                                                                                                         |               |                   |                                                                                       |        |
| 8.00                      | 13 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                         | 9.11          | 8.50              |                                                                                       |        |
| 8.00                      |    | PID    | 0.0ppm                    |       |                            | Description on next sheet                                                                                                                                                                                                                                               |               |                   |  |        |

| Boring Progress and Water Observations        |       |                |              |                        |             | Chiselling / Slow Progress  |    |                  | General Remarks                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------|-------|----------------|--------------|------------------------|-------------|-----------------------------|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                          | Time  | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                        | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                                               |
| 15/11/16                                      | 16:00 | 18.00          | 9.00         | 250                    | 18.00       |                             |    |                  | 1. Hand dug inspection pit to 1.20m bgl.<br>2. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.<br>3. Borehole drilled in following diameters: 18.0m bgl in 250mm; 32.3m bgl in 200mm; 40.0m bgl in 150mm casing to 9.0m bgl in 250mm; 28.5m bgl in 200mm diameter. |
| 15/11/16                                      | 17:00 | 18.00          | 18.00        | 250                    |             |                             |    |                  |                                                                                                                                                                                                                                                                                                               |
| 16/11/16                                      | 06:30 | 18.00          | 18.00        | 250                    | 17.20       |                             |    |                  |                                                                                                                                                                                                                                                                                                               |
| 16/11/16                                      | 08:00 | 22.50          | 18.00        | 200                    | 22.50       |                             |    |                  |                                                                                                                                                                                                                                                                                                               |
| 16/11/16                                      | 15:00 | 32.30          | 28.50        | 200                    |             |                             |    |                  |                                                                                                                                                                                                                                                                                                               |
| 16/11/16                                      | 17:30 | 40.00          | 28.50        | 150                    |             |                             |    |                  |                                                                                                                                                                                                                                                                                                               |
| Method Used: <b>Inspection pit + Hand dug</b> |       |                |              |                        |             | Drilled By: <b>DH</b>       |    |                  | All dimensions in metres                                                                                                                                                                                                                                                                                      |
| Plant Used: <b>Dando 2000</b>                 |       |                |              |                        |             | Logged By: <b>JTownsend</b> |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                                                                                            |
|                                               |       |                |              |                        |             | Checked By: <b>ST</b>       |    |                  |                                                                                                                                                                                                                                                                                                               |



# BOREHOLE LOG

|                                                |                                                |                            |                                                         |  |                        |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|------------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH15B</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>15.11.16</b><br>End: <b>17.11.16</b> | Ground Level: <b>17.61</b> | National Grid Co-ordinate: <b>E:530954.0 N:182232.8</b> |  | Sheet: <b>2 of 5</b>   |

| Samples and In-situ Tests |          |                |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                               | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----------|----------------|---------------------------|-------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No       | Type           | Results                   |       |                            |                                                                                                                                                     |               |                   |                         |
| 9.00<br>9.00<br>9.00      | 9<br>14  | D<br>ES<br>PID | 0.0ppm                    |       |                            | Stiff dark grey fissured silty CLAY. With possible selenite crystals.<br>(LONDON CLAY FORMATION)<br>(stratum copied from 8.50m from previous sheet) |               |                   |                         |
| 9.50-9.95                 | 2        | U              | 50 blows<br>100% recovery |       |                            |                                                                                                                                                     |               |                   |                         |
| 10.00<br>10.00<br>10.00   | 10<br>15 | D<br>ES<br>PID | J+V+T<br>0.0ppm           |       |                            |                                                                                                                                                     |               |                   |                         |
| 10.50                     | 11       | D              |                           |       |                            |                                                                                                                                                     |               |                   |                         |
| 11.00-11.45               | 7        | SPT            | 3,4/4,5,5,5<br>N=19       |       |                            |                                                                                                                                                     |               | (6.20)            |                         |
| 12.00                     | 12       | D              |                           |       |                            |                                                                                                                                                     |               |                   |                         |
| 12.50-12.95               | 3        | U              | 60 blows<br>100% recovery |       |                            |                                                                                                                                                     |               |                   |                         |
| 13.00<br>13.00<br>13.00   | 13<br>16 | D<br>ES<br>PID | 0.0ppm                    |       |                            |                                                                                                                                                     |               |                   |                         |
| 13.50                     | 14       | D              |                           |       |                            |                                                                                                                                                     |               |                   |                         |
| 14.00-14.45               | 8        | SPT            | 4,4/5,6,7,7<br>N=25       |       |                            |                                                                                                                                                     |               |                   |                         |
| 15.00                     | 15       | D              |                           |       |                            | Stiff to very stiff light brown mottled bluish grey fissured slightly sandy silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)                     | 2.91          | 14.70             |                         |
| 15.50-15.95               | 4        | U              | 80 blows<br>100% recovery |       |                            |                                                                                                                                                     |               |                   |                         |
| 16.00<br>16.00<br>16.00   | 16<br>17 | D<br>ES<br>PID | J+V+T<br>0.0ppm           |       |                            |                                                                                                                                                     |               | (3.30)            |                         |
| 16.50                     | 17       | D              |                           |       |                            |                                                                                                                                                     |               |                   |                         |
| 17.00-17.45               | 9        | SPT            | 5,6/7,9,9,9<br>N=34       |       |                            |                                                                                                                                                     |               |                   |                         |
|                           |          |                |                           |       |                            |                                                                                                                                                     | -0.39         | 18.00             |                         |

| Boring Progress and Water Observations        |      |                |              |                        |             | Chiselling / Slow Progress  |    |                  | General Remarks                                                                                                                                                                                                                                                                              |
|-----------------------------------------------|------|----------------|--------------|------------------------|-------------|-----------------------------|----|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                          | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                        | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                              |
|                                               |      |                |              |                        |             |                             |    |                  | 4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 2.0 and 5.0mbgl. Pipe 2 - 33mm PVC response zone 17.5m to 19m bgl. Pipe 3 - 33mm PVC response zone 22.0m to 23.5m bgl.<br>5. Borehole backfilled with 3mm shingle gravel filter between 2.0m to 5.0mbgl; 17.5m to |
| Method Used: <b>Inspection pit + Hand dug</b> |      |                |              |                        |             | Drilled By: <b>DH</b>       |    |                  | All dimensions in metres Scale: <b>1:50</b>                                                                                                                                                                                                                                                  |
| Plant Used: <b>Dando 2000</b>                 |      |                |              |                        |             | Logged By: <b>JTownsend</b> |    |                  | Checked By: <b>ST</b>                                                                                                                                                                                                                                                                        |

|                                                |                                                |                            |                                                         |  |                        |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|------------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH15B</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>15.11.16</b><br>End: <b>17.11.16</b> | Ground Level: <b>17.61</b> | National Grid Co-ordinate: <b>E:530954.0 N:182232.8</b> |  | Sheet: <b>3 of 5</b>   |

| Samples and In-situ Tests |                |                |                                   | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                   | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----------------|----------------|-----------------------------------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No             | Type           | Results                           |       |                            |                                                                                                                                                                         |               |                   |                         |
| 18.00                     | 18             | D              |                                   |       |                            | Medium dense light grey silty fine SAND. Sand is fine Quartz. (UPPER MOTTLED BEDS - SAND CHANNEL).                                                                      |               | (0.80)            |                         |
| 18.50-18.95               | 10             | SPT            | 3,3/5,7,8,8<br>N=28               |       |                            |                                                                                                                                                                         | -1.19         | 18.80             |                         |
| 19.00<br>19.00            | 18             | ES<br>PID      | J+V+T<br>0.0ppm                   |       |                            | Very stiff light brown mottled bluish grey fissured CLAY. (LAMBETH GROUP - UPPER MOTTLED BEDS)                                                                          |               |                   |                         |
| 19.50                     | 19             | D              |                                   |       |                            |                                                                                                                                                                         |               |                   |                         |
| 20.00-20.45               | 5              | U              | 65 blows<br>100% recovery         |       |                            |                                                                                                                                                                         |               |                   |                         |
| 20.00<br>20.00<br>20.50   | 19<br>20       | ES<br>PID<br>D | J+V+T<br>0.0ppm                   |       |                            |                                                                                                                                                                         |               | (3.70)            |                         |
| 21.00-21.45               | 11             | SPT            | 6,6/8,9,10,12<br>N=39             |       |                            |                                                                                                                                                                         |               |                   |                         |
| 21.00                     | 21             | D              |                                   |       |                            |                                                                                                                                                                         |               |                   |                         |
| 22.50                     | 22             | D              |                                   |       |                            | Stiff to very stiff dark grey to black laminated slightly sandy silty CLAY. With very closely spaced laminations of lignitic material. (LAMBETH GROUP - LAMINATED BEDS) | -4.89         | 22.50             |                         |
| 23.00-23.45               | 6              | U              | 65 blows<br>100% recovery         |       |                            | Very stiff light bluish grey mottled light pinkish red fissured silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS)                                                        | -5.59         | 23.20             |                         |
| 23.50                     | 23             | D              |                                   |       |                            |                                                                                                                                                                         |               |                   |                         |
| 24.00                     | 24             | D              |                                   |       |                            |                                                                                                                                                                         |               | (1.80)            |                         |
| 24.50-24.95               | 12             | SPT            | 7,7/10,10,12,12<br>N=44           |       |                            |                                                                                                                                                                         |               |                   |                         |
| 25.00<br>25.00<br>25.50   | 20<br>25<br>26 | ES<br>D<br>PID | J+V+T<br>0.0ppm                   |       |                            | Very dense light orangish brown silty fine to medium SAND. Sand is fine to medium Quartz. (LAMBETH GROUP - LOWER MOTTLED BEDS - SAND CHANNEL)                           | -7.39         | 25.00             |                         |
| 26.00-26.28               | 13             | SPT            | 13,12/30,20<br>for 50mm<br>N=120* |       |                            |                                                                                                                                                                         |               | (2.40)            |                         |

| Boring Progress and Water Observations        |      |                |              |                        |             | Chiselling / Slow Progress  |    |                  | General Remarks                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------|------|----------------|--------------|------------------------|-------------|-----------------------------|----|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                          | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                        | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                                             |
|                                               |      |                |              |                        |             |                             |    |                  | 19.0m bgl and 22.0m to 23.5m bgl; sand filter from 1.5m to 2.0m bgl and 17.0m to 17.5m bgl & bentonite seal/grouting between 0.2m and 1.5m bgl; 5.0m to 17.0m bgl; 19.0m to 22.0m; 23.5m to 25.0m bgl with compacted backfill (sand/clay) from 25m bgl to base of borehole and installation of flush cover. |
| Method Used: <b>Inspection pit + Hand dug</b> |      |                |              |                        |             | Drilled By: <b>DH</b>       |    |                  | All dimensions in metres                                                                                                                                                                                                                                                                                    |
| Plant Used: <b>Dando 2000</b>                 |      |                |              |                        |             | Logged By: <b>JTownsend</b> |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                                                                                          |
|                                               |      |                |              |                        |             | Checked By: <b>ST</b>       |    |                  | <b>AGS</b>                                                                                                                                                                                                                                                                                                  |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                           |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|---------------------------|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH15B</b> |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>15.11.16</b><br>End: <b>17.11.16</b> | Ground Level:<br><b>17.61</b>              |  | National Grid Co-ordinate:<br><b>E:530954.0 N:182232.8</b> |                           | Sheet:<br><b>4 of 5</b> |

| Samples and In-situ Tests |    |        |                             | Water | Backfill & Instru-mentation | Description of Strata                                                                                                                                                                                                                                   | Reduced Level | Depth (Thick-ness) | Material Graphic Legend |
|---------------------------|----|--------|-----------------------------|-------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|-------------------------|
| Depth                     | No | Type   | Results                     |       |                             |                                                                                                                                                                                                                                                         |               |                    |                         |
| 27.00                     | 27 | D      |                             |       |                             |                                                                                                                                                                                                                                                         | -9.79         | 27.40              |                         |
| 27.50-27.87               | 14 | SPT    | 9,9/14,16,20 for 68mm N=69* |       |                             | Very stiff reddish brown mottled bluish grey very closely spaced fissured slightly sandy silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS)                                                                                                               |               |                    |                         |
| 28.50                     | 28 | D      |                             |       |                             |                                                                                                                                                                                                                                                         |               | (3.10)             |                         |
| 29.00-29.45               | 7  | U      | 95 blows<br>0% recovery     |       |                             |                                                                                                                                                                                                                                                         |               |                    |                         |
| 29.01-29.50               | 7  | B      |                             |       |                             |                                                                                                                                                                                                                                                         |               |                    |                         |
| 30.00                     | 21 | ES     | J+V                         |       |                             |                                                                                                                                                                                                                                                         | -12.89        | 30.50              |                         |
| 30.00                     | 29 | D      | 0.0ppm                      |       |                             |                                                                                                                                                                                                                                                         |               |                    |                         |
| 30.00                     |    | PID    |                             |       |                             |                                                                                                                                                                                                                                                         |               |                    |                         |
| 30.50-31.00               | 8  | B      |                             |       |                             | Very stiff light greyish brown mottled dark brownish green slightly sandy slightly gravelly silty CLAY. Sand is fine to medium Quartz. Gravel is well rounded medium to coarse Flint. With rare Relict root and slight organic odour. (UPNOR FORMATION) |               |                    |                         |
| 30.50-30.68               | 15 | SPT(c) | 25/30,20 for 50mm N=120*    |       |                             |                                                                                                                                                                                                                                                         |               | (1.80)             |                         |
| 31.50                     | 30 | D      |                             |       |                             |                                                                                                                                                                                                                                                         |               |                    |                         |
| 32.00-32.50               | 9  | B      |                             |       |                             |                                                                                                                                                                                                                                                         | -14.69        | 32.30              |                         |
| 32.00-32.13               | 16 | SPT(c) | 25/50 for 50mm N=300*       |       |                             | Very dense dark greenish brown silty fine SAND. (THANET SAND FORMATION)                                                                                                                                                                                 |               |                    |                         |
| 33.50-33.65               | 17 | SPT    | 25/37,13 for 25mm N=150*    |       |                             |                                                                                                                                                                                                                                                         |               |                    |                         |
| 34.50                     | 31 | D      |                             |       |                             |                                                                                                                                                                                                                                                         |               |                    |                         |
| 35.00-35.18               | 18 | SPT    | 19,6/50 for 75mm N=200*     |       |                             |                                                                                                                                                                                                                                                         |               |                    |                         |
| 35.00                     | 22 | ES     | J+V                         |       |                             |                                                                                                                                                                                                                                                         |               | (7.00)             |                         |
| 35.00                     |    | PID    | 0.0ppm                      |       |                             |                                                                                                                                                                                                                                                         |               |                    |                         |

| Boring Progress and Water Observations        |      |                |              |                        |             | Chiselling / Slow Progress    |    |                  | General Remarks                                                                                                                                                                                                                             |
|-----------------------------------------------|------|----------------|--------------|------------------------|-------------|-------------------------------|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                          | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                          | To | Duration (hh:mm) |                                                                                                                                                                                                                                             |
|                                               |      |                |              |                        |             |                               |    |                  | 6. PID = Photo ionisation detector with 10.6eV bulb<br>7. Small seepage observed by driller at 18.0m bgl.<br>8. Small seepage observed by driller at 22.5m bgl sealed out at 23.2m bgl.<br>9. Water level on 16/11/2016 at start of day was |
| Method Used: <b>Inspection pit + Hand dug</b> |      |                |              |                        |             | Plant Used: <b>Dando 2000</b> |    |                  | All dimensions in metres                                                                                                                                                                                                                    |
| Drilled By: <b>DH</b>                         |      |                |              |                        |             | Logged By: <b>JTownsend</b>   |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                          |
| Checked By: <b>ST</b>                         |      |                |              |                        |             | Checked By: <b>AGS</b>        |    |                  |                                                                                                                                                                                                                                             |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                           |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|---------------------------|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH15B</b> |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>15.11.16</b><br>End: <b>17.11.16</b> | Ground Level:<br><b>17.61</b>              |  | National Grid Co-ordinate:<br><b>E:530954.0 N:182232.8</b> |                           | Sheet:<br><b>5 of 5</b> |

| Samples and In-situ Tests |    |      |                                | Water | Backfill & Instru-mentation | Description of Strata                                                                                                                                                  | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|--------------------------------|-------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results                        |       |                             |                                                                                                                                                                        |               |                   |                         |
| 36.00                     | 32 | D    |                                |       |                             | Very dense dark greenish brown silty fine SAND.<br>(THANET SAND FORMATION)<br>(stratum copied from 32.30m from previous sheet)                                         |               |                   |                         |
| 36.50-36.63               | 19 | SPT  | 25/50<br>for 50mm<br>N=300*    |       |                             |                                                                                                                                                                        |               |                   |                         |
| 37.50                     | 33 | D    |                                |       |                             |                                                                                                                                                                        |               |                   |                         |
| 38.00-38.12               | 20 | SPT  | 25/50<br>for 70mm<br>N=214*    |       |                             |                                                                                                                                                                        |               |                   |                         |
| 39.00                     | 34 | D    |                                |       |                             |                                                                                                                                                                        |               |                   |                         |
| 39.50-39.70               | 21 | SPT  | 25/25,25<br>for 75mm<br>N=100* |       |                             | Very dense dark greenish brown slightly clayey sandy fine to coarse GRAVEL. Gravel is subrounded to angular fine to coarse Flint with Chalk.<br>(WHITE CHALK SUBGROUP) | -21.69        | 39.30             |                         |
| 39.50-40.00               | 35 | D    |                                |       |                             |                                                                                                                                                                        |               |                   |                         |
| 40.00                     | 23 | ES   |                                |       |                             |                                                                                                                                                                        | -22.39        | 40.00             |                         |
| 40.00                     |    | PID  | J+V<br>0.0ppm                  |       |                             | Borehole completed at 40.0m bgl.                                                                                                                                       |               |                   |                         |

| Boring Progress and Water Observations |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks                                                                                      |  |
|----------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|------------------------------------------------------------------------------------------------------|--|
| Date                                   | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                                                                                                      |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                                                      |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                                                      |  |
|                                        |      |                |              |                        |             |                            |    |                  | 17.2m bgl sealed out at 18.8m bgl.<br>10. 200L water added to the borehole to drill the Thanet Sand. |  |
|                                        |      |                |              |                        |             |                            |    |                  |                                                                                                      |  |
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|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH19</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>29.11.16</b><br>End: <b>02.12.16</b> | Ground Level: <b>18.72</b> | National Grid Co-ordinate: <b>E:530906.5 N:182329.4</b> |  | Sheet: <b>1 of 5</b>  |

| Samples and In-situ Tests |    |           |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                                                                                               | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|-----------|---------------------------|-------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type      | Results                   |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 0.00-0.50                 | 1  | B         |                           |       |                            | MADE GROUND: Light brown to dark grey silty very gravelly fine to coarse SAND with a medium cobble content. Sand is fine and coarse Quartz. Gravel is angular to subrounded fine to coarse brick, concrete, ceramics and slate. Cobbles are subangular to subrounded whole bricks and concrete.                     |               | (0.80)            |                         |
| 0.50<br>0.50              | 1  | ES<br>PID | J+V+T<br>0.0ppm           |       |                            |                                                                                                                                                                                                                                                                                                                     | 17.92         | 0.80              |                         |
| 1.00<br>1.00              | 2  | ES<br>PID | J+V+T<br>0.0ppm           |       |                            | MADE GROUND: CONCRETE.                                                                                                                                                                                                                                                                                              | 17.62         | 1.10              |                         |
| 1.20-1.65                 | 1  | SPT(c)    | 1/1,1,1<br>N=2            |       |                            | MADE GROUND: Dark brown to brown clayey gravelly fine to coarse SAND with a low cobble content. Sand is fine to coarse Quartz. Gravel is well rounded to angular fine to coarse brick, concrete, mortar, coal, ash and clinker. Cobbles are subangular cubic whole bricks and concrete. Occasional pockets of clay. |               |                   |                         |
| 1.20-1.70                 | 2  | B         |                           |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 1.50<br>1.50              | 3  | ES<br>PID | J+V+T<br>0.0ppm           |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 1.90                      | 1  | D         |                           |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 2.00-2.45                 | 2  | SPT(c)    | 1,1/1,1<br>N=2            |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 2.00-2.50                 | 3  | B         |                           |       |                            |                                                                                                                                                                                                                                                                                                                     |               | (3.00)            |                         |
| 2.00<br>2.50              | 4  | ES        | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 2.50<br>2.50              | 5  | ES<br>PID | J+V+T<br>0.0ppm           |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 2.70                      | 2  | D         |                           |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 3.00-3.45                 | 3  | SPT(c)    | 1,1/1,1,1<br>N=3          |       |                            |                                                                                                                                                                                                                                                                                                                     | 14.62         | 4.10              |                         |
| 3.00-3.50                 | 4  | B         |                           |       |                            | Medium dense light brown slightly silty slightly sandy subrounded to subangular fine to coarse GRAVEL of flint. Sand is fine and coarse Quartz. (HACKNEY GRAVEL)                                                                                                                                                    |               | (0.70)            |                         |
| 3.00<br>3.00              | 6  | ES<br>PID | J+V+T<br>0.0ppm           |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 3.50<br>3.70              | 7  | ES<br>D   | J+V+T                     |       |                            | Firm becoming stiff with depth light orangish brown mottled bluish grey fissured slightly sandy silty CLAY. Sand is fine Quartz. With occasional Relict roots. (LONDON CLAY FORMATION)                                                                                                                              |               |                   |                         |
| 4.00-4.45                 | 4  | SPT(c)    | 5,5/7,7,6,8<br>N=28       |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 4.00-4.50                 | 5  | B         |                           |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 4.00<br>4.00              | 8  | ES<br>PID | J+V+T<br>0.0ppm           |       |                            |                                                                                                                                                                                                                                                                                                                     | 13.92         | 4.80              |                         |
| 4.50<br>4.50              | 9  | ES<br>PID | J+V<br>0.0ppm             |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 4.70                      | 4  | D         |                           |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 4.90                      | 5  | D         |                           |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 5.00-5.45                 | 5  | SPT       | 2,2/2,3,2,2<br>N=9        |       |                            |                                                                                                                                                                                                                                                                                                                     |               | (1.90)            |                         |
| 5.00<br>5.00              | 10 | ES<br>PID | J+V<br>0.0ppm             |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 6.00<br>6.00              | 6  | D         | J+V                       |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 6.00<br>6.00              | 11 | ES<br>PID | J+V<br>0.0ppm             |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 6.50-6.95                 | 1  | U         | 50 blows<br>100% recovery |       |                            | Stiff dark greyish brown very closely spaced silty CLAY. With possible selenite crystals. (LONDON CLAY FORMATION)                                                                                                                                                                                                   | 12.02         | 6.70              |                         |
| 7.00                      | 7  | D         |                           |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 7.00                      | 12 | ES        | J+V                       |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 7.50                      | 8  | D         |                           |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 8.00-8.45                 | 6  | SPT       | 3,3/4,5,5,6<br>N=20       |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 8.00                      | 13 | ES        | J+V                       |       |                            |                                                                                                                                                                                                                                                                                                                     |               |                   |                         |
| 8.00                      |    | PID       | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                                                     |               | (4.30)            |                         |

| Boring Progress and Water Observations |       |                                   |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks                                                                                                                                                                                                                                                                     |           |  |
|----------------------------------------|-------|-----------------------------------|--------------|------------------------|-------------|----------------------------|----|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|
| Date                                   | Time  | Borehole Depth                    | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                     |           |  |
| 29/11/16                               | 17:00 | 10.00                             | 5.50         | 250                    | Dry         |                            |    |                  | 1. Hand dug inspection pit to 1.20m bgl.<br>2. Borehole progressed through machine excavated pit by JCB to 3.5m bgl due to presence of concrete obstruction from 0.8m to 1.1m bgl.<br>3. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size. |           |  |
| 29/11/16                               | 08:30 | 11.00                             | 10.50        | 250                    | 11.00       |                            |    |                  |                                                                                                                                                                                                                                                                                     |           |  |
| 29/11/16                               | 17:00 | 25.00                             | 25.00        | 250                    | Dry         |                            |    |                  |                                                                                                                                                                                                                                                                                     |           |  |
| 01/12/16                               | 10:30 | 27.50                             | 25.00        | 200                    | 27.50       |                            |    |                  |                                                                                                                                                                                                                                                                                     |           |  |
| 01/12/16                               | 17:00 | 40.00                             | 29.00        | 150                    |             |                            |    |                  |                                                                                                                                                                                                                                                                                     |           |  |
|                                        |       |                                   |              |                        |             |                            |    |                  |                                                                                                                                                                                                                                                                                     |           |  |
| Method Used:                           |       | Inspection pit + Cable percussion |              | Plant Used:            |             | Dando 2000                 |    | Drilled By:      |                                                                                                                                                                                                                                                                                     | DH        |  |
|                                        |       |                                   |              |                        |             |                            |    | Logged By:       |                                                                                                                                                                                                                                                                                     | JTownsend |  |
|                                        |       |                                   |              |                        |             |                            |    | Checked By:      |                                                                                                                                                                                                                                                                                     | ST        |  |
|                                        |       |                                   |              |                        |             |                            |    |                  |                                                                                                                                                                                                                                                                                     | AGS       |  |

|                                                   |  |                                                |                                            |                               |  |                                                            |  |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|-------------------------------|--|------------------------------------------------------------|--|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |                               |  | Borehole:<br><b>BH19</b>                                   |  |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>29.11.16</b><br>End: <b>02.12.16</b> |                                            | Ground Level:<br><b>18.72</b> |  | National Grid Co-ordinate:<br><b>E:530906.5 N:182329.4</b> |  | Sheet:<br><b>2 of 5</b> |

| Samples and In-situ Tests |    |        |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                   | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|--------|---------------------------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type   | Results                   |       |                            |                                                                                                                                                                         |               |                   |                         |
| 9.00                      | 9  | D      |                           | ↓     |                            | Stiff dark greyish brown very closely spaced silty CLAY. With possible selenite crystals.<br>(LONDON CLAY FORMATION)<br>(stratum copied from 6.70m from previous sheet) |               |                   |                         |
| 9.00                      | 14 | ES     | J+V                       |       |                            |                                                                                                                                                                         |               |                   |                         |
| 9.50-9.95                 | 2  | U      | 55 blows<br>100% recovery | ↓     |                            |                                                                                                                                                                         |               |                   |                         |
| 10.00                     | 10 | D      |                           |       |                            |                                                                                                                                                                         |               |                   |                         |
| 10.00                     | 15 | ES     | J+V                       |       |                            |                                                                                                                                                                         |               |                   |                         |
| 10.50                     | 11 | D      |                           |       |                            |                                                                                                                                                                         |               |                   |                         |
| 11.00-11.50               | 6  | B      |                           |       |                            |                                                                                                                                                                         |               |                   |                         |
| 11.00-11.45               | 7  | SPT(c) | 7,8/9,11,11,14<br>N=45    |       |                            |                                                                                                                                                                         | 7.72          | 11.00             |                         |
|                           |    |        |                           |       |                            |                                                                                                                                                                         |               | (0.50)            |                         |
|                           |    |        |                           |       |                            |                                                                                                                                                                         | 7.22          | 11.50             |                         |
|                           |    |        |                           |       |                            |                                                                                                                                                                         |               | (1.00)            |                         |
|                           |    |        |                           |       |                            |                                                                                                                                                                         |               | (1.00)            |                         |
| 12.00                     | 12 | D      |                           |       |                            |                                                                                                                                                                         | 6.22          | 12.50             |                         |
| 12.50-12.95               | 8  | SPT    | 3,4/4,5,5,6<br>N=20       |       |                            | Stiff becoming very stiff with depth dark greyish brown very closely spaced silty CLAY. With rare Relict roots and possible selenite crystals.<br>(HARWICH FORMATION)   |               |                   |                         |
| 13.00                     | 16 | ES     | J+V                       |       |                            |                                                                                                                                                                         |               |                   |                         |
| 13.50                     | 13 | D      |                           |       |                            |                                                                                                                                                                         |               |                   |                         |
| 14.00-14.45               | 3  | U      | 60 blows<br>0% recovery   |       |                            |                                                                                                                                                                         |               |                   |                         |
| 14.00-14.50               | 7  | B      |                           |       |                            |                                                                                                                                                                         |               |                   |                         |
| 15.00                     | 14 | D      |                           |       |                            |                                                                                                                                                                         |               |                   |                         |
| 15.50-15.95               | 9  | SPT    | 4,5/5,7,6,7<br>N=25       |       |                            |                                                                                                                                                                         |               |                   |                         |
| 16.00                     | 17 | ES     | J+V                       |       |                            |                                                                                                                                                                         |               |                   |                         |
| 16.00                     |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                         |               |                   |                         |
| 16.50                     | 15 | D      |                           |       |                            |                                                                                                                                                                         |               |                   |                         |
| 17.00-17.45               | 4  | U      | 60 blows<br>100% recovery |       |                            |                                                                                                                                                                         |               |                   |                         |
| 17.50                     | 16 | D      |                           |       |                            |                                                                                                                                                                         |               |                   |                         |

| Boring Progress and Water Observations                |      |                |                       |                        |             | Chiselling / Slow Progress  |    |                       | General Remarks                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------|------|----------------|-----------------------|------------------------|-------------|-----------------------------|----|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth          | Borehole Diameter (mm) | Water Depth | From                        | To | Duration (hh:mm)      |                                                                                                                                                                                                                                                                                                  |
|                                                       |      |                |                       |                        |             |                             |    |                       | 4. Borehole drilled in following diameters: 25.0m bgl in 250mm; 32.0m bgl in 200mm; 40.0m bgl in 150mm casing to 5.5m bgl in 250mm; 29.0m bgl in 200mm diameter.<br>5. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 1.0 and 5.0mbgl. Pipe 2 - 50mm HDPE response zone |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |                       |                        |             | All dimensions in metres    |    |                       | Scale: <b>1:50</b>                                                                                                                                                                                                                                                                               |
| Plant Used: <b>Dando 2000</b>                         |      |                | Drilled By: <b>DH</b> |                        |             | Logged By: <b>JTownsend</b> |    | Checked By: <b>ST</b> |                                                                                                                                                                                                                                                                                                  |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                          |                         |  |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|--|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH19</b> |                         |  |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>29.11.16</b><br>End: <b>02.12.16</b> | Ground Level:<br><b>18.72</b>              |  | National Grid Co-ordinate:<br><b>E:530906.5 N:182329.4</b> |                          | Sheet:<br><b>3 of 5</b> |  |

| Samples and In-situ Tests |     |      |                                      | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                     | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|-----|------|--------------------------------------|-------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No  | Type | Results                              |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 18.00                     | 17  | D    |                                      |       |                            | Stiff becoming very stiff with depth dark greyish brown very closely spaced silty CLAY. With rare Relict roots and possible selenite crystals.<br>(HARWICH FORMATION)<br>(stratum copied from 12.50m from previous sheet) |               |                   |                         |
| 18.50-18.95               | 10  | SPT  | 5,5/7,7,7,9<br>N=30                  |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 19.00                     | 18  | ES   | J+V                                  |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 19.50                     | 18  | D    |                                      |       |                            | Very stiff light orangish brown mottled light bluish grey fissured silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)                                                                                                    | -0.68         | 19.40             |                         |
| 20.00-20.45               | 5   | U    | 65 blows<br>100% recovery            |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 20.00                     | 19  | ES   | J+V                                  |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 20.00                     | PID |      | 0.0ppm                               |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 20.50                     | 19  | D    |                                      |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 21.00                     | 20  | D    |                                      |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 21.50-21.93               | 11  | SPT  | 7,5/10,10,17,13<br>for 54mm<br>N=54* |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 21.50                     | 21  | D    |                                      |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 23.00-23.45               | 6   | U    | 70 blows<br>100% recovery            |       |                            |                                                                                                                                                                                                                           |               | (7.10)            |                         |
| 23.50                     | 22  | D    |                                      |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 24.00                     | 23  | D    |                                      |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 25.00                     | 20  | ES   | J+V                                  |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 25.00                     | PID |      | 0.0ppm                               |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 25.50                     | 24  | D    |                                      |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 26.00-26.45               | 7   | U    | 75 blows<br>100% recovery            |       |                            |                                                                                                                                                                                                                           |               |                   |                         |
| 26.50                     | 25  | D    |                                      |       |                            |                                                                                                                                                                                                                           | -7.78         | 26.50             |                         |
| Description on next sheet |     |      |                                      |       |                            |                                                                                                                                                                                                                           |               | (1.00)            |                         |

| Boring Progress and Water Observations |                                   |                |              |                        |             | Chiselling / Slow Progress |             |                  | General Remarks                                                                                                                                                                                                                                                                                     |             |           |  |             |    |     |
|----------------------------------------|-----------------------------------|----------------|--------------|------------------------|-------------|----------------------------|-------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|--|-------------|----|-----|
| Date                                   | Time                              | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To          | Duration (hh:mm) |                                                                                                                                                                                                                                                                                                     |             |           |  |             |    |     |
|                                        |                                   |                |              |                        |             |                            |             |                  |                                                                                                                                                                                                                                                                                                     |             |           |  |             |    |     |
|                                        |                                   |                |              |                        |             |                            |             |                  |                                                                                                                                                                                                                                                                                                     |             |           |  |             |    |     |
|                                        |                                   |                |              |                        |             |                            |             |                  | 11.0m to 15m bgl. Pipe 3 - 33mm PVC response zone 27.0m to 28.0m bgl.<br>6. Borehole backfilled with 3mm shingle gravel filter between 1.0m to 5.0mbgl; 11.0m to 15.0m bgl and 27.0m to 28.0m bgl; sand filter from 0.8m to 1.0m bgl; 10.5m to 11.0m bgl & bentonite seal/grouting between 0.2m and |             |           |  |             |    |     |
|                                        |                                   |                |              |                        |             |                            |             |                  | All dimensions in metres                                                                                                                                                                                                                                                                            | Scale: 1:50 |           |  |             |    |     |
| Method Used:                           | Inspection pit + Cable percussion |                | Plant Used:  |                        | Dando 2000  |                            | Drilled By: | DH               |                                                                                                                                                                                                                                                                                                     | Logged By:  | JTownsend |  | Checked By: | ST | AGS |

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH19</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>29.11.16</b><br>End: <b>02.12.16</b> | Ground Level: <b>18.72</b> | National Grid Co-ordinate: <b>E:530906.5 N:182329.4</b> |  | Sheet: <b>4 of 5</b>  |

| Samples and In-situ Tests |    |      |                                | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                            | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|--------------------------------|-------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results                        |       |                            |                                                                                                                                                                                  |               |                   |                         |
| 27.00                     | 26 | D    |                                |       |                            | Stiff dark brownish grey laminated silty CLAY with closely spaced thin laminations of lignitic and shelly material. (LAMBETH GROUP - LAMINATED BEDS)                             | -8.78         | 27.50             |                         |
| 27.50-27.94               | 13 | SPT  | 7,8/12,12,14,12 for 60mm N=53* |       |                            | (stratum copied from 26.50m from previous sheet)<br>Very stiff light bluish grey mottled orangish brown fissured slightly sandy silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS) |               | (1.00)            |                         |
| 28.50                     | 27 | D    |                                |       |                            | Very stiff light bluish grey mottled light orangish brown fissured silty CLAY. (LAMBETH GROUP - LOWER MOTTLED BEDS)                                                              | -9.78         | 28.50             |                         |
| 29.00-29.45               | 8  | U    | 85 blows<br>100% recovery      |       |                            |                                                                                                                                                                                  |               |                   |                         |
| 29.50                     | 28 | D    |                                |       |                            |                                                                                                                                                                                  |               |                   |                         |
| 30.00                     | 21 | ES   | J+V                            |       |                            |                                                                                                                                                                                  |               | (3.50)            |                         |
| 30.00                     | 29 | D    |                                |       |                            |                                                                                                                                                                                  |               |                   |                         |
| 30.00                     |    | PID  | 0.0ppm                         |       |                            |                                                                                                                                                                                  |               |                   |                         |
| 30.50-30.65               | 14 | SPT  | 25/37,13 for 25mm N=150*       |       |                            |                                                                                                                                                                                  |               |                   |                         |
| 31.50                     | 30 | D    |                                |       |                            |                                                                                                                                                                                  |               |                   |                         |
| 32.00-32.18               | 15 | SPT  | 23,2/37,13 for 25mm N=150*     |       |                            | Very dense light greyish brown slightly silty fine SAND. (THANET SAND FORMATION)                                                                                                 | -13.28        | 32.00             |                         |
| 33.00                     | 31 | D    |                                |       |                            |                                                                                                                                                                                  |               |                   |                         |
| 33.50-33.63               | 16 | SPT  | 25/50 for 75mm N=200*          |       |                            |                                                                                                                                                                                  |               |                   |                         |
| 34.50                     | 32 | D    |                                |       |                            |                                                                                                                                                                                  |               |                   |                         |
| 35.00-35.13               | 17 | SPT  | 25/50 for 50mm N=300*          |       |                            |                                                                                                                                                                                  |               |                   |                         |
| 35.00                     | 22 | ES   | J+V                            |       |                            |                                                                                                                                                                                  |               |                   |                         |
| 35.00                     |    | PID  | 0.0ppm                         |       |                            |                                                                                                                                                                                  |               | (8.00)            |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress  |    |                  | General Remarks                                                                                                                                                                                                                                                                     |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|-----------------------------|----|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                        | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                     |
|                                                       |      |                |              |                        |             |                             |    |                  | 0.8m bgl; 5.0m to 10.5m bgl; 15.0m to 27.0m bgl and 28.0m to 30.0m bgl with compacted backfill (sand/clay) from 30m bgl to base of borehole and installation of flush cover.<br>7. PID = Photo ionisation detector with 10.6eV bulb<br>8. Groundwater strike (small to medium flow) |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Drilled By: <b>DH</b>       |    |                  | All dimensions in metres                                                                                                                                                                                                                                                            |
| Plant Used: <b>Dando 2000</b>                         |      |                |              |                        |             | Logged By: <b>JTownsend</b> |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                                                                  |
|                                                       |      |                |              |                        |             | Checked By: <b>ST</b>       |    |                  |                                                                                                                                                                                                                                                                                     |



# BOREHOLE LOG

|                                                   |                                                |                               |                                                            |  |  |                          |
|---------------------------------------------------|------------------------------------------------|-------------------------------|------------------------------------------------------------|--|--|--------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |                                                |                               | Client:<br><b>Royal Mail Group Limited</b>                 |  |  | Borehole:<br><b>BH19</b> |
| Contract Ref:<br><b>28549</b>                     | Start: <b>29.11.16</b><br>End: <b>02.12.16</b> | Ground Level:<br><b>18.72</b> | National Grid Co-ordinate:<br><b>E:530906.5 N:182329.4</b> |  |  | Sheet:<br><b>5 of 5</b>  |

| Samples and In-situ Tests |    |      |                             | Water | Backfill & Instrumentation | Description of Strata                                                                                                                   | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|-----------------------------|-------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results                     |       |                            |                                                                                                                                         |               |                   |                         |
| 36.00                     | 33 | D    |                             |       |                            | Very dense light greyish brown slightly silty fine SAND.<br>(THANET SAND FORMATION)<br>(stratum copied from 32.00m from previous sheet) |               |                   |                         |
| 36.50-36.60               | 18 | SPT  | 25/50<br>for 50mm<br>N=300* |       |                            |                                                                                                                                         |               |                   |                         |
| 37.50                     | 34 | D    |                             |       |                            |                                                                                                                                         |               |                   |                         |
| 38.00-38.15               | 19 | SPT  | 25/50<br>for 70mm<br>N=214* |       |                            |                                                                                                                                         |               |                   |                         |
| 39.00                     | 35 | D    |                             |       |                            |                                                                                                                                         |               |                   |                         |
| 39.50-39.61               | 20 | SPT  | 25/50<br>for 50mm<br>N=300* |       |                            |                                                                                                                                         | -21.28        | 40.00             |                         |
| 40.00                     | 23 | ES   | J+V                         |       |                            | Borehole completed at 40.0m bgl.                                                                                                        |               |                   |                         |
| 40.00                     | 36 | D    |                             |       |                            |                                                                                                                                         |               |                   |                         |
| 40.00                     |    | PID  | 0.0ppm                      |       |                            |                                                                                                                                         |               |                   |                         |

| Boring Progress and Water Observations |                                   |                |              |                        |             | Chiselling / Slow Progress |             |                  | General Remarks                                                                                                                                                                                                    |             |           |  |             |    |     |
|----------------------------------------|-----------------------------------|----------------|--------------|------------------------|-------------|----------------------------|-------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------|--|-------------|----|-----|
| Date                                   | Time                              | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To          | Duration (hh:mm) |                                                                                                                                                                                                                    |             |           |  |             |    |     |
|                                        |                                   |                |              |                        |             |                            |             |                  |                                                                                                                                                                                                                    |             |           |  |             |    |     |
|                                        |                                   |                |              |                        |             |                            |             |                  |                                                                                                                                                                                                                    |             |           |  |             |    |     |
|                                        |                                   |                |              |                        |             |                            |             |                  | observed by driller at 11.0m bgl rising to 9.4m bgl after 20 mins sealed out at 12.5m bgl.<br>9. Small seepage observed by driller at 27.5m bgl.<br>10. 200L water added to the borehole to drill the Thanet Sand. |             |           |  |             |    |     |
|                                        |                                   |                |              |                        |             |                            |             |                  | All dimensions in metres                                                                                                                                                                                           | Scale: 1:50 |           |  |             |    |     |
| Method Used:                           | Inspection pit + Cable percussion |                |              | Plant Used:            | Dando 2000  |                            | Drilled By: | DH               |                                                                                                                                                                                                                    | Logged By:  | JTownsend |  | Checked By: | ST | AGS |

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH20</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>08.11.16</b><br>End: <b>16.11.16</b> | Ground Level: <b>17.17</b> | National Grid Co-ordinate: <b>E:530946.8 N:182312.9</b> |  | Sheet: <b>1 of 5</b>  |

| Samples and In-situ Tests |    |        |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                                                          | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|--------|---------------------------|-------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type   | Results                   |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
|                           |    |        |                           |       |                            | MADE GROUND*: Concrete.                                                                                                                                                                                                                                                        | 17.07         | 0.10              |                         |
|                           |    |        |                           |       |                            | MADE GROUND*: Light brown gravelly SAND with low cobble content. Sand is medium to coarse. Gravel is fine to coarse subrounded to angular concrete, flint and gravels. Cobbles are subangular to angular concrete and bricks.                                                  | 16.52         | 0.65              |                         |
|                           |    |        |                           |       |                            | MADE GROUND*: Light brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular flint bricks concrete with occasional ash and clinker.                                                                                      | 15.57         | 1.60              |                         |
|                           |    |        |                           |       |                            | MADE GROUND*: Brown to dark brown slightly sandy slightly gravelly CLAY with occasional pockets of organic CLAY. (Possibly reworked alluvium)                                                                                                                                  |               | (1.50)            |                         |
|                           |    |        |                           |       |                            | MADE GROUND*: Dark grey slightly clayey gravelly SILT with mild organic odour. Gravel is fine to medium subrounded to angular flint. (Possibly reworked alluvium)                                                                                                              | 14.07         | 3.10              |                         |
|                           |    |        |                           |       |                            | MADE GROUND*: Dark greenish grey to orange slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium flint bricks with occasional chalk fragments.                                                                                               | 13.87         | 3.30              |                         |
|                           |    |        |                           |       |                            | MADE GROUND*: Dark brown very clayey SAND and GRAVEL with a medium cobble content. Sand is fine to coarse. Gravel is subrounded to angular fine to coarse Flint, brick and concrete. Cobbles are subangular up to 150mm in diameter Concrete. With occasional Ash and clinker. | 13.57         | 3.60              |                         |
| 4.00                      | 1  | ES     |                           |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 4.00                      |    | PID    | 0.1ppm                    |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 4.01-4.46                 | 1  | SPT(c) | 2,4/7,6,7,7<br>N=27       |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 4.01-4.45                 | 1  | B      |                           |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 4.50                      | 2  | ES     |                           |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 4.50                      |    | PID    | 0.2ppm                    |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 5.00-5.45                 | 1  | U      | 52 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 5.00                      | 3  | ES     |                           |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 5.00                      |    | PID    | 0.1ppm                    |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 6.00-6.45                 | 2  | SPT    | 1,3/3,5,5,5<br>N=18       |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 6.00                      | 4  | ES     |                           |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 6.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 6.01-6.45                 | 2  | B      |                           |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 7.00-7.45                 | 2  | U      | 57 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 7.00                      | 5  | ES     |                           |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 7.00                      |    | PID    | 0.3ppm                    |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 7.45                      | 3  | D      |                           |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 8.00-8.45                 | 3  | SPT    | 5,6/6,7,6,6<br>N=25       |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 8.00-8.45                 | 4  | B      |                           |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 8.00                      | 6  | ES     |                           |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
| 8.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                                |               |                   |                         |
|                           |    |        |                           |       |                            | Soft light orangish brown to dark brown sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is rounded to subangular fine to coarse Flint. (LONDON CLAY FORMATION)                                                                                                    | 11.17         | 6.00              |                         |
|                           |    |        |                           |       |                            |                                                                                                                                                                                                                                                                                |               | (1.00)            |                         |
|                           |    |        |                           |       |                            | Stiff dark grey closely spaced fissured silty CLAY. With occasional selenite. (LONDON CLAY FORMATION)                                                                                                                                                                          | 10.17         | 7.00              |                         |

| Boring Progress and Water Observations                |       |                       |              |                           |             | Chiselling / Slow Progress |    |                  | General Remarks                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------|-------|-----------------------|--------------|---------------------------|-------------|----------------------------|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time  | Borehole Depth        | Casing Depth | Borehole Diameter (mm)    | Water Depth | From                       | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                             |
| 08/11/16                                              | 17:18 | 10.00                 | 10.00        | 250                       |             |                            |    |                  | 1. *Borehole progressed through machine excavated trial pit TP1 excavated by JCB to 3.5m bgl.<br>2. Sampling commenced from 3.5m bgl.<br>3. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.<br>4. Borehole drilled in following diameters: 25.0m |
| 09/11/16                                              | 18:19 | 26.00                 | 10.00        | 200                       |             |                            |    |                  |                                                                                                                                                                                                                                                                                             |
| 10/11/16                                              | 17:30 | 29.00                 | 26.00        | 200                       |             |                            |    |                  |                                                                                                                                                                                                                                                                                             |
| 11/11/16                                              | 12:22 | 29.00                 | 26.00        | 200                       |             |                            |    |                  |                                                                                                                                                                                                                                                                                             |
| 14/11/16                                              | 16:24 | 33.00                 | 33.00        | 200                       |             |                            |    |                  |                                                                                                                                                                                                                                                                                             |
| 15/11/16                                              | 12:25 | 40.00                 | 33.00        | 150                       | Dry         |                            |    |                  |                                                                                                                                                                                                                                                                                             |
| Method Used: <b>Inspection pit + Cable percussion</b> |       |                       |              |                           |             | All dimensions in metres   |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                                                                          |
| Plant Used: <b>Dando 2000</b>                         |       | Drilled By: <b>MW</b> |              | Logged By: <b>JBarron</b> |             | Checked By:                |    |                  |                                                                                                                                                                                                                                                                                             |



# BOREHOLE LOG

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH20</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>08.11.16</b><br>End: <b>16.11.16</b> | Ground Level: <b>17.17</b> | National Grid Co-ordinate: <b>E:530946.8 N:182312.9</b> |  | Sheet: <b>2 of 5</b>  |

| Samples and In-situ Tests |    |           |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                       | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|-----------|---------------------------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type      | Results                   |       |                            |                                                                                                                                                             |               |                   |                         |
| 9.00-9.45                 | 3  | U         | 39 blows<br>100% recovery |       |                            | Stiff dark grey closely spaced fissured silty CLAY. With occasional selenite.<br>(LONDON CLAY FORMATION)<br>(stratum copied from 7.00m from previous sheet) |               |                   |                         |
| 9.00                      | 7  | ES<br>PID | 0.0ppm                    |       |                            |                                                                                                                                                             |               |                   |                         |
| 10.00-10.45               | 4  | SPT       | 4,6/6,8,9,9<br>N=32       |       |                            |                                                                                                                                                             |               |                   |                         |
| 10.00-10.45               | 5  | B         |                           |       |                            |                                                                                                                                                             |               |                   |                         |
| 10.00                     | 8  | ES<br>PID | 0.0ppm                    |       |                            |                                                                                                                                                             |               |                   |                         |
| 11.00-11.45               | 4  | U         | 39 blows<br>100% recovery |       |                            |                                                                                                                                                             |               | (8.00)            |                         |
| 12.00-12.45               | 5  | SPT       | 3,5/7,7,7,7<br>N=28       |       |                            |                                                                                                                                                             |               |                   |                         |
| 12.00-12.45               | 6  | B         |                           |       |                            |                                                                                                                                                             |               |                   |                         |
| 13.00-13.45               | 5  | U         | 41 blows<br>100% recovery |       |                            |                                                                                                                                                             |               |                   |                         |
| 13.00                     | 9  | ES<br>PID | 0.0ppm                    |       |                            |                                                                                                                                                             |               |                   |                         |
| 14.00-14.45               | 6  | SPT       | 4,4/6,4,8,7<br>N=25       |       |                            |                                                                                                                                                             |               |                   |                         |
| 14.00                     | 7  | B         |                           |       |                            |                                                                                                                                                             |               |                   |                         |
| 15.00-15.45               | 6  | U         | 57 blows<br>100% recovery |       |                            | Stiff to very stiff light bluish grey and brown closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)                                 | 2.17          | 15.00             |                         |
| 16.00-16.45               | 7  | SPT       | 6,5/8,9,9,9<br>N=35       |       |                            |                                                                                                                                                             |               |                   |                         |
| 16.00                     | 10 | ES        |                           |       |                            |                                                                                                                                                             |               |                   |                         |
| 16.00                     | 8  | B         |                           |       |                            |                                                                                                                                                             |               |                   |                         |
| 16.00                     |    | PID       | 0.0ppm                    |       |                            |                                                                                                                                                             |               |                   |                         |
| 17.00-17.45               | 7  | U         | 60 blows<br>100% recovery |       |                            |                                                                                                                                                             |               |                   |                         |

| Boring Progress and Water Observations |                                   |                |              |                        |             | Chiselling / Slow Progress |             |                  | General Remarks                                                                                                                                                                                                                                 |            |             |             |                                                                                       |
|----------------------------------------|-----------------------------------|----------------|--------------|------------------------|-------------|----------------------------|-------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-------------|---------------------------------------------------------------------------------------|
| Date                                   | Time                              | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To          | Duration (hh:mm) |                                                                                                                                                                                                                                                 |            |             |             |                                                                                       |
|                                        |                                   |                |              |                        |             |                            |             |                  |                                                                                                                                                                                                                                                 |            |             |             |                                                                                       |
|                                        |                                   |                |              |                        |             |                            |             |                  | bgl in 250mm; 40.0m bgl in 200mm casing to 10.0m bgl in 250mm; 33.0m bgl in 200mm diameter.<br>5. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 4.0 and 7.5m bgl. Pipe 2 - 33mm PVC response zone 32.5m to 38.5m bgl. |            |             |             |                                                                                       |
|                                        |                                   |                |              |                        |             |                            |             |                  | All dimensions in metres                                                                                                                                                                                                                        |            | Scale: 1:50 |             |                                                                                       |
| Method Used:                           | Inspection pit + Cable percussion |                |              | Plant Used:            | Dando 2000  |                            | Drilled By: | MW               |                                                                                                                                                                                                                                                 | Logged By: | JBarron     | Checked By: |  |

|                                                |  |                        |                                         |  |                                                         |                       |                      |
|------------------------------------------------|--|------------------------|-----------------------------------------|--|---------------------------------------------------------|-----------------------|----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |  |                        | Client: <b>Royal Mail Group Limited</b> |  |                                                         | Borehole: <b>BH20</b> |                      |
| Contract Ref: <b>28549</b>                     |  | Start: <b>08.11.16</b> | Ground Level: <b>17.17</b>              |  | National Grid Co-ordinate: <b>E:530946.8 N:182312.9</b> |                       | Sheet: <b>3 of 5</b> |
|                                                |  | End: <b>16.11.16</b>   |                                         |  |                                                         |                       |                      |

| Samples and In-situ Tests |    |      |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                              | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|---------------------------|-------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results                   |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 18.00-18.45               | 8  | SPT  | 3,5/7,7,10,10<br>N=34     |       |                            | Stiff to very stiff light bluish grey and brown closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)<br>(stratum copied from 15.00m from previous sheet)<br>... At 18.0 m bgl red mottling. |               |                   |                         |
| 18.00                     | 9  | B    |                           |       |                            |                                                                                                                                                                                                                    |               | (7.00)            |                         |
| 19.00-19.45               | 8  | U    | 58 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 19.00                     | 11 | ES   |                           |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 19.00                     |    | PID  | 0.0ppm                    |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 20.00-20.45               | 9  | SPT  | 4,4/6,7,9,9<br>N=31       |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 20.00                     | 10 | B    |                           |       |                            | Stiff to very stiff dark grey and light grey fissured silty CLAY.<br>With partings of light grey sand and occasional laminations of lignitic material.<br>(LAMBETH GROUP - LAMINATED BEDS)                         |               |                   |                         |
| 20.00                     | 12 | ES   |                           |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 20.00                     |    | PID  | 0.0ppm                    |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 21.00-21.45               | 9  | U    | 70 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 22.00-22.45               | 10 | SPT  | 5,7/8,8,9,10<br>N=35      |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 22.00                     | 11 | B    |                           |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 23.00-23.45               | 10 | U    | 53 blows<br>100% recovery |       |                            | Stiff to very stiff light grey mottled dark yellowish brown closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)                                                                            |               |                   |                         |
| 24.00-24.45               | 11 | SPT  | 5,6/4,9,9,11<br>N=33      |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 24.00                     | 12 | B    |                           |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 25.00-25.45               | 11 | U    | 54 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 25.00                     | 13 | ES   |                           |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 25.00                     |    | PID  | 0.0ppm                    |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 26.00-26.45               | 12 | SPT  | 5,7/7,9,11,10<br>N=37     |       |                            |                                                                                                                                                                                                                    |               |                   |                         |
| 26.00                     | 13 | B    |                           |       |                            |                                                                                                                                                                                                                    |               | (4.45)            |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress    |    |                  | General Remarks                                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|-------------------------------|----|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                          | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                                                       |
|                                                       |      |                |              |                        |             |                               |    |                  | 6. Borehole backfilled with 3mm shingle gravel filter between 4.0m to 7.5m bgl; 32.5m to 38.5m bgl; sand filter from 3.5m to 4.0m bgl & bentonite seal/grouting between 0.2m and 3.5m bgl; 7.5m to 10.0m bgl; 28.0m to 32.50m with compacted backfill (sand/clay) from 38.5m bgl to base of borehole and installation |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Plant Used: <b>Dando 2000</b> |    |                  | All dimensions in metres                                                                                                                                                                                                                                                                                              |
|                                                       |      |                |              |                        |             | Drilled By: <b>MW</b>         |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                                                                                                    |
|                                                       |      |                |              |                        |             | Logged By: <b>JBarron</b>     |    |                  | Checked By:                                                                                                                                                                                                                                                                                                           |

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH20</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>08.11.16</b><br>End: <b>16.11.16</b> | Ground Level: <b>17.17</b> | National Grid Co-ordinate: <b>E:530946.8 N:182312.9</b> |  | Sheet: <b>4 of 5</b>  |

| Samples and In-situ Tests |    |        |                              | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                       | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|--------|------------------------------|-------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type   | Results                      |       |                            |                                                                                                                                                                                             |               |                   |                         |
| 27.00-27.45               | 12 | U      | 63 blows<br>100% recovery    |       |                            | Stiff to very stiff light grey mottled dark yellowish brown closely spaced fissured silty CLAY.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)<br>(stratum copied from 24.45m from previous sheet) |               |                   |                         |
| 28.00-28.45               | 13 | SPT    | 4,4/7,7,9,9<br>N=32          |       |                            | . . . At 28.0m bgl grey and slightly sandy.Sand is fine.                                                                                                                                    |               |                   |                         |
| 28.00                     | 14 | B      |                              |       |                            |                                                                                                                                                                                             | -11.73        | 28.90             |                         |
| 29.00-29.45               | 13 | U      | 120 blows<br>100% recovery   |       |                            | Stiff to very stiff green mottled light brownish yellow fine sandy silty CLAY.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)                                                                      |               | (2.10)            |                         |
| 30.00                     | 14 | ES     |                              |       |                            |                                                                                                                                                                                             |               |                   |                         |
| 30.00                     | 15 | B      |                              |       |                            |                                                                                                                                                                                             |               |                   |                         |
| 30.00                     |    | PID    | 0.0ppm                       |       |                            |                                                                                                                                                                                             |               |                   |                         |
| 30.01-30.46               | 14 | SPT    | 7,9/9,12,13,13<br>N=47       |       |                            |                                                                                                                                                                                             | -13.83        | 31.00             |                         |
| 31.00-31.45               | 14 | U      | 81 blows<br>100% recovery    |       |                            | Stiff to very stiff grey sandy gravelly CLAY. Sand is fine to medium. Gravel is rounded flat fine to coarse of black pebbles.<br>(LAMBETH GROUP - UPNOR FORMATION)                          |               | (1.30)            |                         |
| 32.00-32.11               | 15 | SPT    | 25/50<br>for 50mm<br>N=300*  |       |                            |                                                                                                                                                                                             | -15.13        | 32.30             |                         |
| 32.00-32.45               | 16 | B      |                              |       |                            | Very dense grey silty fine SAND.<br>(THANET SAND FORMATION)                                                                                                                                 |               |                   |                         |
| 33.00-33.03               | 16 | SPT(c) | 25/50<br>for 24mm<br>N=625*  |       |                            |                                                                                                                                                                                             |               |                   |                         |
| 33.00-33.45               | 17 | B      |                              |       |                            |                                                                                                                                                                                             |               |                   |                         |
| 34.00-34.04               | 17 | SPT(c) | 25/50<br>for 22mm<br>N=682*  |       |                            |                                                                                                                                                                                             |               |                   |                         |
| 34.00-34.45               | 18 | B      |                              |       |                            |                                                                                                                                                                                             |               |                   |                         |
| 35.00                     | 15 | ES     |                              |       |                            |                                                                                                                                                                                             |               |                   |                         |
| 35.00-35.02               | 18 | SPT(c) | 25/50<br>for 13mm<br>N=1154* |       |                            |                                                                                                                                                                                             |               | (6.30)            |                         |
| 35.00-35.45               | 19 | B      |                              |       |                            |                                                                                                                                                                                             |               |                   |                         |
| 35.00                     |    | PID    | 0.0ppm                       |       |                            |                                                                                                                                                                                             |               |                   |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress    |    |                  | General Remarks                                                                                                                                                                                               |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|-------------------------------|----|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                          | To | Duration (hh:mm) |                                                                                                                                                                                                               |
|                                                       |      |                |              |                        |             |                               |    |                  | of flush cover.<br>7. PID = Photo ionisation detector with 10.6eV bulb<br>8. Groundwater strike not observed by the driller during drilling.<br>9. 400L water added to the borehole to drill the Thanet Sand. |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Plant Used: <b>Dando 2000</b> |    |                  | All dimensions in metres                                                                                                                                                                                      |
| Drilled By: <b>MW</b>                                 |      |                |              |                        |             | Logged By: <b>JBarron</b>     |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                            |
| Checked By: <b>AGS</b>                                |      |                |              |                        |             |                               |    |                  |                                                                                                                                                                                                               |



|                                                   |                                                |                               |                                                            |  |                          |
|---------------------------------------------------|------------------------------------------------|-------------------------------|------------------------------------------------------------|--|--------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |                                                |                               | Client:<br><b>Royal Mail Group Limited</b>                 |  | Borehole:<br><b>BH20</b> |
| Contract Ref:<br><b>28549</b>                     | Start: <b>08.11.16</b><br>End: <b>16.11.16</b> | Ground Level:<br><b>17.17</b> | National Grid Co-ordinate:<br><b>E:530946.8 N:182312.9</b> |  | Sheet:<br><b>5 of 5</b>  |

| Samples and In-situ Tests |          |              |                                   | Water | Backfill & Instrumentation | Description of Strata                                                                                                  | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----------|--------------|-----------------------------------|-------|----------------------------|------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No       | Type         | Results                           |       |                            |                                                                                                                        |               |                   |                         |
| 36.00-36.03               | 19       | SPT(c)       | 25/50<br>for 16mm<br>N=938*       |       |                            | Very dense grey silty fine SAND.<br>(THANET SAND FORMATION)<br><i>(stratum copied from 32.30m from previous sheet)</i> |               |                   |                         |
| 36.00-36.45               | 20       | B            |                                   |       |                            |                                                                                                                        |               |                   |                         |
| 37.00-37.03               | 20       | SPT(c)       | 25/50<br>for 21mm<br>N=714*       |       |                            |                                                                                                                        |               |                   |                         |
| 37.00-37.45               | 21       | B            |                                   |       |                            |                                                                                                                        |               |                   |                         |
| 38.00<br>38.00-38.18      | 16<br>21 | ES<br>SPT(c) | 21,4/22,28<br>for 11mm<br>N=174*  |       |                            |                                                                                                                        |               |                   |                         |
| 38.00-38.45<br>38.00      | 22       | B<br>PID     | 0.0ppm                            |       |                            |                                                                                                                        |               |                   |                         |
| 39.00-39.26               | 22       | SPT(c)       | 19,6/22,24,4<br>for 13mm<br>N=92* |       |                            |                                                                                                                        |               |                   |                         |
| 39.00-39.45               | 23       | B            |                                   |       |                            |                                                                                                                        |               |                   |                         |
|                           |          |              |                                   |       |                            | Recovery of sandy sub-angular medium to coarse GRAVEL of chalk and flint.<br>(WHITE CHALK SUBGROUP)                    | -21.43        | 38.60             |                         |
|                           |          |              |                                   |       |                            |                                                                                                                        |               | (1.40)            |                         |
|                           |          |              |                                   |       |                            |                                                                                                                        | -22.83        | 40.00             |                         |
|                           |          |              |                                   |       |                            | Borehole completed at 40.0m bgl.                                                                                       |               |                   |                         |

| Boring Progress and Water Observations |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks |  |
|----------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|-----------------|--|
| Date                                   | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                 |  |
|                                        |      |                |              |                        |             |                            |    |                  |                 |  |
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GINT\_LIBRARY\_v8\_06.GLB LibVersion: v8\_06\_015 PrivVersion: v8\_06 - Core+Logs - 002 | Log CABLE PERCUSSION LOG - A4P | 28549. MOUNT PLEASANT.GPJ - v8\_06\_06.  
Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437550, Fax: 01442 437550, Web: www.rsk.co.uk. | 30/01/17 - 12:09 | CB1



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|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH21</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>25.11.16</b><br>End: <b>02.12.16</b> | Ground Level: <b>16.92</b> | National Grid Co-ordinate: <b>E:530933.0 N:182269.3</b> |  | Sheet: <b>1 of 5</b>  |

| Samples and In-situ Tests |    |        |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                                                 | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|--------|---------------------------|-------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type   | Results                   |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 0.00-0.50                 | 1  | ES     | J+V+T                     |       |                            | MADE GROUND: Brownish grey sandy fine to coarse GRAVEL with a high cobble content. Sand is fine and coarse Quartz. Gravel is subrounded to angular fine to coarse Brick, concrete, flint, ceramics and slate. Cobbles are subangular Brick and concrete.              |               | (0.70)            |                         |
| 0.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       | 16.22         | 0.70              |                         |
| 1.00                      | 2  | ES     | J+V+T                     |       |                            | MADE GROUND: Loose greyish brown gravelly clayey fine to coarse SAND with a low cobble content. Sand is fine and coarse Quartz. Gravel is subrounded to angular fine to coarse Brick, concrete, flint, ceramics and slate. Cobbles are subangular Brick and concrete. |               |                   |                         |
| 1.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 1.50-1.95                 | 1  | SPT(c) | 1,1/1,2,1,1<br>N=5        |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 1.50-2.00                 | 1  | B      |                           |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 1.50                      | 3  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 1.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 2.00                      | 4  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 2.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 2.20                      | 2  | D      |                           |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 2.50-2.95                 | 2  | SPT(c) | 1/1,2,2,2<br>N=7          |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 2.50-3.00                 | 3  | B      |                           |       |                            | Firm light grey and yellowish brown very closely spaced fissured silty CLAY.<br>(LONDON CLAY FORMATION)                                                                                                                                                               |               |                   |                         |
| 2.50                      | 5  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 2.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 3.00                      | 6  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 3.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 3.20                      | 4  | D      |                           |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 3.50-3.95                 | 3  | SPT(c) | 1,1/1,2,2,1<br>N=6        |       |                            |                                                                                                                                                                                                                                                                       | 12.82         | 4.10              |                         |
| 3.50-4.00                 | 5  | B      |                           |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 3.50                      | 7  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 3.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 4.00                      | 8  | ES     | J+V+T                     |       |                            | Stiff dark grey fissured silty CLAY. With possible selenite crystals.<br>(LONDON CLAY FORMATION)                                                                                                                                                                      |               |                   |                         |
| 4.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 4.10                      | 6  | D      |                           |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 4.50-4.95                 | 7  | U      | 54 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                                       | 11.72         | 5.20              |                         |
| 4.50                      | 9  | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 4.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 4.90                      | 8  | D      |                           |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 5.00                      | 10 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 5.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 5.20                      | 9  | D      |                           |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 6.00-6.45                 | 10 | SPT    | 2,3/4,4,4,4<br>N=16       |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 6.00-6.50                 | 11 | B      |                           |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 6.00                      | 11 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 6.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 7.00                      | 12 | D      |                           |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 7.00                      | 12 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 7.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 7.50-7.95                 | 13 | U      | 65 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 7.90                      | 14 | D      |                           |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 8.00                      | 13 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |
| 8.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                                       |               |                   |                         |

| Boring Progress and Water Observations |                                   |                |              |                        |             | Chiselling / Slow Progress |             |                  | General Remarks                                                                                                                                                                                                                                                                                              |         |             |                                                                                       |
|----------------------------------------|-----------------------------------|----------------|--------------|------------------------|-------------|----------------------------|-------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|---------------------------------------------------------------------------------------|
| Date                                   | Time                              | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To          | Duration (hh:mm) |                                                                                                                                                                                                                                                                                                              |         |             |                                                                                       |
| 25/11/16                               | 12:10                             | 3.00           | 3.00         | 250                    | 15.00       |                            |             |                  | 1. Hand dug inspection pit to 1.20m bgl.<br>2. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.<br>3. Borehole drilled in following diameters: 4.5m bgl in 250mm; 34.0m bgl in 200mm; 40.0m bgl in 150mm casing to 4.5m bgl in 250mm; 34.0m bgl in 200mm diameter. |         |             |                                                                                       |
| 29/11/16                               | 17:30                             | 10.00          | 4.50         | 250                    |             |                            |             |                  |                                                                                                                                                                                                                                                                                                              |         |             |                                                                                       |
| 30/11/16                               | 11:30                             | 15.00          | 15.00        | 200                    |             |                            |             |                  |                                                                                                                                                                                                                                                                                                              |         |             |                                                                                       |
| 30/11/16                               | 18:00                             | 20.00          | 20.00        | 200                    |             |                            |             |                  |                                                                                                                                                                                                                                                                                                              |         |             |                                                                                       |
| 01/12/16                               | 17:30                             | 28.50          | 28.50        | 200                    |             |                            |             |                  |                                                                                                                                                                                                                                                                                                              |         |             |                                                                                       |
| 02/12/16                               | 17:30                             | 40.00          | 34.00        | 150                    |             |                            |             |                  |                                                                                                                                                                                                                                                                                                              |         |             |                                                                                       |
| All dimensions in metres               |                                   |                |              |                        |             |                            |             |                  | Scale: 1:50                                                                                                                                                                                                                                                                                                  |         |             |                                                                                       |
| Method Used:                           | Inspection pit + Cable percussion |                |              | Plant Used:            | Dando 3000  |                            | Drilled By: | MC               | Logged By:                                                                                                                                                                                                                                                                                                   | JBarron | Checked By: |  |

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH21</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>25.11.16</b><br>End: <b>02.12.16</b> | Ground Level: <b>16.92</b> | National Grid Co-ordinate: <b>E:530933.0 N:182269.3</b> |  | Sheet: <b>2 of 5</b>  |

| Samples and In-situ Tests |    |        |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                              | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|--------|---------------------------|-------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type   | Results                   |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 9.00                      | 14 | ES     | J+V+T                     |       |                            | Stiff dark grey fissured silty CLAY. With possible selenite crystals.<br>(LONDON CLAY FORMATION)<br><i>(stratum copied from 5.20m from previous sheet)</i>                                                                                         |               | (9.80)            |                         |
| 9.00-9.45                 | 15 | SPT    | 1,3/3,4,4,5<br>N=16       |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 9.00-9.50                 | 16 | B      |                           |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 9.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 10.00                     | 15 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 10.00                     | 17 | D      |                           |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 10.00                     |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 10.50-10.95               | 18 | U      | 71 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 10.90                     | 19 | D      |                           |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 12.00-12.45               | 20 | SPT    | 2,3/4,5,6,5<br>N=20       |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 12.00-12.50               | 21 | B      |                           |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 13.00                     | 16 | ES     | J+V+T                     |       |                            | Recovery of grey slightly clayey fine to coarse angular SAND and sub-angular and to sub-rounded fine to coarse GRAVEL of laminated slightly shelly MUDSTONE recovered with frequent rounded medium to coarse black pebbles.<br>(HARWICH FORMATION) | 1.92          | 15.00             |                         |
| 13.00                     | 22 | D      |                           |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 13.00                     |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 13.50-13.95               | 23 | U      | 69 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 13.90                     | 24 | D      |                           |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 15.00-15.45               | 4  | SPT(c) | 2,4/4,5,5,6<br>N=20       |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 15.00                     | 25 | D      |                           |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 15.00-15.50               | 26 | B      |                           |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 16.00                     | 17 | ES     | J+V+T                     |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 16.00                     | 27 | D      |                           |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 16.00                     |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 16.50-16.95               | 5  | SPT(c) | 2,3/3,4,5,4<br>N=16       |       |                            | Stiff to very stiff light brown and light bluish grey closely spaced fissured slightly sandy silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)                                                                                                   | 0.42          | 16.50             |                         |
| 16.50                     | 28 | D      |                           |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 16.50-17.00               | 29 | B      |                           |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |
| 17.50                     | 30 | D      |                           |       |                            |                                                                                                                                                                                                                                                    |               |                   |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                        |
|                                                       |      |                |              |                        |             |                            |    |                  | 4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 1.0 and 4.5mbgl. Pipe 2 - 50mm HDPE response zone 14m to 18m bgl.<br>5. Borehole backfilled with 3mm shingle gravel filter between 1.0m to 4.5m bgl & 14.0m to 18.0m bgl; sand filter from 0.8m to 1.0m bgl |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Drilled By: <b>MC</b>      |    |                  | All dimensions in metres<br>Scale: <b>1:50</b><br>Logged By: <b>JBarron</b><br>Checked By:                                                                                                                                                                                             |
| Plant Used: <b>Dando 3000</b>                         |      |                |              |                        |             |                            |    |                  |                                                                                                                                                                                                                                                                                        |



# BOREHOLE LOG

|                                                   |                                                |                               |                                                            |  |                          |
|---------------------------------------------------|------------------------------------------------|-------------------------------|------------------------------------------------------------|--|--------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |                                                |                               | Client:<br><b>Royal Mail Group Limited</b>                 |  | Borehole:<br><b>BH21</b> |
| Contract Ref:<br><b>28549</b>                     | Start: <b>25.11.16</b><br>End: <b>02.12.16</b> | Ground Level:<br><b>16.92</b> | National Grid Co-ordinate:<br><b>E:530933.0 N:182269.3</b> |  | Sheet:<br><b>3 of 5</b>  |

| Samples and In-situ Tests  |                 |                |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                       | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|----------------------------|-----------------|----------------|---------------------------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                      | No              | Type           | Results                   |       |                            |                                                                                                                                                                                                             |               |                   |                         |
| 18.00-18.45<br>18.00-18.50 | 31<br>32        | U<br>B         | 63 blows                  |       |                            | Stiff to very stiff light brown and light bluish grey closely spaced fissured slightly sandy silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)<br><i>(stratum copied from 16.50m from previous sheet)</i> |               |                   |                         |
| 19.00<br>19.00<br>19.00    | 18<br>33<br>PID | ES<br>D<br>PID | J+V+T<br>0.0ppm           |       |                            |                                                                                                                                                                                                             |               |                   |                         |
| 19.50-19.95                | 34              | SPT            | 3,4/5,5,6,7<br>N=23       |       |                            |                                                                                                                                                                                                             |               | (6.60)            |                         |
| 19.50-20.00                | 35              | B              |                           |       |                            |                                                                                                                                                                                                             |               |                   |                         |
| 20.00<br>20.00             | 19              | ES<br>PID      | J+V+T<br>0.0ppm           |       |                            |                                                                                                                                                                                                             |               |                   |                         |
| 20.50                      | 36              | D              |                           |       |                            |                                                                                                                                                                                                             |               |                   |                         |
| 21.00-21.45<br>21.00-21.50 | 37<br>38        | U<br>B         | 52 blows                  |       |                            |                                                                                                                                                                                                             |               |                   |                         |
| 21.90                      | 39              | D              |                           |       |                            |                                                                                                                                                                                                             |               |                   |                         |
| 22.50-22.95                | 40              | SPT            | 4,5/7,8,8,10<br>N=33      |       |                            |                                                                                                                                                                                                             |               |                   |                         |
| 22.50-23.00                | 41              | B              |                           |       |                            |                                                                                                                                                                                                             | -6.18         | 23.10             |                         |
| 23.10                      | 42              | D              |                           |       |                            | Stiff to very stiff dark grey to black laminated slightly sandy silty CLAY with occasional lignitic laminations.<br>(LAMBETH GROUP - LAMINATED BEDS)                                                        |               | (0.90)            |                         |
| 24.00<br>24.00-24.45       | 43<br>44        | D<br>U         | 66 blows<br>100% recovery |       |                            |                                                                                                                                                                                                             | -7.08         | 24.00             |                         |
| 24.40                      | 45              | D              |                           |       |                            | Very stiff light bluish grey mottled light pinkish red fissured silty CLAY.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS)                                                                                         |               |                   |                         |
| 25.00<br>25.00             | 20              | ES<br>PID      | J+V+T<br>0.0ppm           |       |                            |                                                                                                                                                                                                             |               | (3.00)            |                         |
| 25.50-25.95                | 44              | SPT            | 6,7/8,8,11,12<br>N=39     |       |                            |                                                                                                                                                                                                             |               |                   |                         |
| 25.50-26.00                | 47              | D              |                           |       |                            |                                                                                                                                                                                                             |               |                   |                         |
|                            |                 |                |                           |       |                            |                                                                                                                                                                                                             | -10.08        | 27.00             |                         |

| Boring Progress and Water Observations |                                   |                |              |                        |             | Chiselling / Slow Progress |             |                  | General Remarks                                                                                                                                                                                                                                                         |             |             |                                                                                       |
|----------------------------------------|-----------------------------------|----------------|--------------|------------------------|-------------|----------------------------|-------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|---------------------------------------------------------------------------------------|
| Date                                   | Time                              | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To          | Duration (hh:mm) |                                                                                                                                                                                                                                                                         |             |             |                                                                                       |
|                                        |                                   |                |              |                        |             |                            |             |                  |                                                                                                                                                                                                                                                                         |             |             |                                                                                       |
|                                        |                                   |                |              |                        |             |                            |             |                  |                                                                                                                                                                                                                                                                         |             |             |                                                                                       |
|                                        |                                   |                |              |                        |             |                            |             |                  | and 13.5m to 14.0m bgl & bentonite seal/grouting between 0.2m and 0.8m bgl; 4.5m to 13.5m bgl and 19.0m to 34.0m bgl with compacted backfill (sand) from 34m bgl to base of borehole and installation of flush cover.<br>6. PID = Photo ionisation detector with 10.6eV |             |             |                                                                                       |
|                                        |                                   |                |              |                        |             |                            |             |                  | All dimensions in metres                                                                                                                                                                                                                                                | Scale: 1:50 |             |                                                                                       |
| Method Used:                           | Inspection pit + Cable percussion |                |              | Plant Used:            | Dando 3000  |                            | Drilled By: | MC               | Logged By:                                                                                                                                                                                                                                                              | JBarron     | Checked By: |  |



# BOREHOLE LOG

|                                                   |                                                |                               |                                                            |  |  |                          |
|---------------------------------------------------|------------------------------------------------|-------------------------------|------------------------------------------------------------|--|--|--------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |                                                |                               | Client:<br><b>Royal Mail Group Limited</b>                 |  |  | Borehole:<br><b>BH21</b> |
| Contract Ref:<br><b>28549</b>                     | Start: <b>25.11.16</b><br>End: <b>02.12.16</b> | Ground Level:<br><b>16.92</b> | National Grid Co-ordinate:<br><b>E:530933.0 N:182269.3</b> |  |  | Sheet:<br><b>4 of 5</b>  |

| Samples and In-situ Tests                             |                      |                            |                                             | Water | Backfill & Instrumentation | Description of Strata                                                                                                                         | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|-------------------------------------------------------|----------------------|----------------------------|---------------------------------------------|-------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                                                 | No                   | Type                       | Results                                     |       |                            |                                                                                                                                               |               |                   |                         |
| 27.00-27.45<br>27.00-27.50<br>27.00<br>27.50          | 48<br>49<br>50<br>51 | U<br>B<br>D<br>D           | 59 blows                                    |       |                            | Very dense light orangish brown silty fine to medium SAND. Sand is fine to medium Quartz. (LAMBETH GROUP - LOWER MOTTLED BEDS - SAND CHANNEL) |               | (1.50)            |                         |
| 28.50-28.95<br>28.50-29.00<br>29.50                   | 52<br>53<br>54       | SPT<br>B<br>D              | 4,7/9,10,10,11<br>N=40                      |       |                            | Very stiff light greyish green mottled dark purple slightly sandy silty CLAY. Sand is fine to medium. (LAMBETH GROUP - LOWER MOTTLED BEDS)    | -11.58        | 28.50             |                         |
| 30.00<br>30.00-30.45<br>30.00-30.50<br>30.00          | 21<br>55<br>56       | ES<br>U<br>B<br>PID        | J+V+T<br>60 blows<br>0.0ppm                 |       |                            |                                                                                                                                               |               | (5.50)            |                         |
| 31.00<br>31.50-31.95<br>31.50-32.00                   | 57<br>58<br>59       | D<br>SPT<br>B              | 6,7/9,11,13,13<br>N=46                      |       |                            |                                                                                                                                               |               |                   |                         |
| 32.50<br>33.00-33.45<br>33.00-33.50                   | 60<br>61<br>62       | D<br>SPT<br>B              | 5,8/11,11,12,12<br>N=46                     |       |                            |                                                                                                                                               |               |                   |                         |
| 34.00<br>34.50-34.55<br>34.50-35.00<br>35.00<br>35.00 | 63<br>64<br>65<br>22 | D<br>SPT<br>B<br>ES<br>PID | 25/50 for 17mm<br>N=882*<br>J+V+T<br>0.0ppm |       |                            | Very dense grey silty fine SAND. (THANET SAND FORMATION)                                                                                      | -17.08        | 34.00             |                         |

| Boring Progress and Water Observations |                                   |                |              |                        |             | Chiselling / Slow Progress |             |                  | General Remarks                                                                                                                                                                  |            |             |             |                           |
|----------------------------------------|-----------------------------------|----------------|--------------|------------------------|-------------|----------------------------|-------------|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-------------|---------------------------|
| Date                                   | Time                              | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To          | Duration (hh:mm) |                                                                                                                                                                                  |            |             |             |                           |
|                                        |                                   |                |              |                        |             |                            |             |                  |                                                                                                                                                                                  |            |             |             |                           |
|                                        |                                   |                |              |                        |             |                            |             |                  | bulb<br>7. Groundwater strike (medium flow) observed by driller at 15.0m bgl rising to 11.3m bgl after 20 mins.<br>8. 300L water added to the borehole to drill the Thanet Sand. |            |             |             |                           |
|                                        |                                   |                |              |                        |             |                            |             |                  | All dimensions in metres                                                                                                                                                         |            | Scale: 1:50 |             |                           |
| Method Used:                           | Inspection pit + Cable percussion |                |              | Plant Used:            | Dando 3000  |                            | Drilled By: | MC               |                                                                                                                                                                                  | Logged By: | JBarron     | Checked By: | <div><div></div>AGS</div> |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                          |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH21</b> |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>25.11.16</b><br>End: <b>02.12.16</b> | Ground Level:<br><b>16.92</b>              |  | National Grid Co-ordinate:<br><b>E:530933.0 N:182269.3</b> |                          | Sheet:<br><b>5 of 5</b> |

| Samples and In-situ Tests |    |      |                              | Water | Backfill & Instrumentation | Description of Strata                                                                                           | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|------------------------------|-------|----------------------------|-----------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results                      |       |                            |                                                                                                                 |               |                   |                         |
| 36.00-36.07               | 66 | SPT  | 25/50 for 29mm N=517*        |       |                            | Very dense grey silty fine SAND.<br>(THANET SAND FORMATION)<br>(stratum copied from 34.00m from previous sheet) |               |                   |                         |
| 36.00-36.50               | 67 | D    |                              |       |                            |                                                                                                                 |               | (6.05)            |                         |
| 37.50-37.54               | 68 | SPT  | 25/50 for 11mm N=1364*       |       |                            |                                                                                                                 |               |                   |                         |
| 37.50-38.00               | 69 | D    |                              |       |                            |                                                                                                                 |               |                   |                         |
| 38.50-38.58               | 70 | SPT  | 25/50 for 55mm N=273*        |       |                            |                                                                                                                 |               |                   |                         |
| 38.50                     | 71 | D    |                              |       |                            |                                                                                                                 |               |                   |                         |
| 40.00                     | 23 | ES   | J+V+T                        |       |                            |                                                                                                                 | -23.13        | 40.05             |                         |
| 40.00-40.05               | 72 | SPT  | 25/50 for 33mm N=455* 0.0ppm |       |                            |                                                                                                                 |               |                   |                         |
| 40.00                     |    | PID  |                              |       |                            |                                                                                                                 |               |                   |                         |

| Boring Progress and Water Observations |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks |  |
|----------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|-----------------|--|
| Date                                   | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                 |  |
|                                        |      |                |              |                        |             |                            |    |                  |                 |  |
|                                        |      |                |              |                        |             |                            |    |                  |                 |  |
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|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH22</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>17.10.16</b><br>End: <b>21.10.16</b> | Ground Level: <b>11.89</b> | National Grid Co-ordinate: <b>E:531009.5 N:182200.0</b> |  | Sheet: <b>1 of 4</b>  |

| Samples and In-situ Tests |    |        |                         | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                                                  | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|--------|-------------------------|-------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type   | Results                 |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 0.00-1.20                 | 1  | B      |                         |       |                            | MADE GROUND: Dark reddish brown clayey very gravelly fine to coarse SAND with a low cobble content. Sand is fine and coarse quartz. Gravel is subrounded to subangular fine and coarse flint. Cobbles are subangular brick and concrete. Brick fragments and concrete. |               |                   |                         |
| 0.50                      | 1  | ES     | J+V+T                   |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 1.00                      | 2  | ES     | J+V+T                   |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 1.00                      |    | PID    | 0.2ppm                  |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 1.20                      | 2  | D      |                         |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 1.50-1.61                 | 1  | SPT(c) | 18,7/50 for 30mm N=500* |       |                            |                                                                                                                                                                                                                                                                        |               | (3.70)            |                         |
| 1.50-2.00                 | 3  | B      |                         |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 1.50                      |    | PID    | 0.2ppm                  |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 1.50                      | 3  | ES     | J+V+T                   |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 2.00                      | 4  | ES     | J+V+T                   |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 2.00                      |    | PID    | 0.4ppm                  |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 2.20                      | 4  | D      |                         |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 2.50-2.55                 | 2  | SPT(c) | 25/50 for 19mm N=789*   |       |                            | Dark greenish brown slightly silty CLAY. With rare selenite and roots. (ALLUVIUM)                                                                                                                                                                                      |               |                   |                         |
| 2.50-3.00                 | 5  | B      |                         |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 2.50                      |    | PID    | 0.1ppm                  |       |                            |                                                                                                                                                                                                                                                                        | 8.19          | 3.70              |                         |
| 2.50                      | 5  | ES     | J+V+T                   |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 3.00                      | 6  | ES     | J+V+T                   |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 3.00                      |    | PID    | 0.2ppm                  |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 3.20                      | 6  | D      |                         |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 3.30-3.50                 | 7  | B      |                         |       |                            |                                                                                                                                                                                                                                                                        |               | (1.30)            |                         |
| 3.50-3.95                 | 3  | SPT(c) | 7,9/3,4,4,4 N=15        |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 3.50                      |    | PID    | 0.2ppm                  |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 3.70                      | 8  | D      |                         |       |                            | Stiff dark greyish brown fissured silty CLAY. (LONDON CLAY FORMATION)                                                                                                                                                                                                  | 6.89          | 5.00              |                         |
| 3.70-4.00                 | 9  | B      |                         |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 4.00                      | 7  | ES     | J+V+T                   |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 4.00                      |    | PID    | 0.6ppm                  |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 4.20                      | 10 | D      |                         |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 4.50                      | 8  | ES     | J+V+T                   |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 4.50-4.95                 | 11 | U      | 34 blows 100% recovery  |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 4.50                      |    | PID    | 0.1ppm                  |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 4.90                      | 12 | D      |                         |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 5.00                      | 9  | ES     | J+V+T                   |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 5.00                      | 13 | D      |                         |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 5.00                      |    | PID    | 0.3ppm                  |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 6.00                      | 10 | ES     | J+V+T                   |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 6.00-6.45                 | 14 | SPT    | 3,4/5,4,5,6 N=20        |       |                            |                                                                                                                                                                                                                                                                        |               | (4.00)            |                         |
| 6.00-6.50                 | 15 | B      |                         |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 6.00                      |    | PID    | 0.2ppm                  |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 7.00                      | 11 | ES     | J+V+T                   |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 7.00                      | 16 | D      |                         |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 7.00                      |    | PID    | 0.1ppm                  |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 7.50-7.95                 | 17 | U      | 42 blows                |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 7.50-8.00                 | 18 | B      |                         |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 8.00                      | 12 | ES     | J+V+T                   |       |                            |                                                                                                                                                                                                                                                                        |               |                   |                         |
| 8.00                      |    | PID    | 0.0ppm                  |       |                            |                                                                                                                                                                                                                                                                        | 2.89          | 9.00              |                         |

| Boring Progress and Water Observations |       |                                   |              |                        |             | Chiselling / Slow Progress |       |                  | General Remarks<br><br>1. Hand dug inspection pit to 1.20m bgl.<br>2. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.<br>3. Borehole drilled in following diameters: 27.0m bgl in 250mm; 35.0m bgl in 200mm casing to 9.0m bgl in 250mm; 34.0m bgl in 200mm diameter.<br><br>All dimensions in metres      Scale: <b>1:50</b> |    |  |            |  |           |  |             |  |                                                                                       |  |
|----------------------------------------|-------|-----------------------------------|--------------|------------------------|-------------|----------------------------|-------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--|------------|--|-----------|--|-------------|--|---------------------------------------------------------------------------------------|--|
| Date                                   | Time  | Borehole Depth                    | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To    | Duration (hh:mm) |                                                                                                                                                                                                                                                                                                                                                                          |    |  |            |  |           |  |             |  |                                                                                       |  |
| 17/10/16                               | 10:33 | 3.70                              | 3.00         | 250                    | 3.70        | 35.00                      | 35.00 | 02:00            |                                                                                                                                                                                                                                                                                                                                                                          |    |  |            |  |           |  |             |  |                                                                                       |  |
| 17/10/16                               | 17:30 | 6.00                              | 6.00         | 250                    | Dry         |                            |       |                  |                                                                                                                                                                                                                                                                                                                                                                          |    |  |            |  |           |  |             |  |                                                                                       |  |
| 18/10/16                               | 07:33 | 6.00                              | 6.00         | 250                    | 3.10        |                            |       |                  |                                                                                                                                                                                                                                                                                                                                                                          |    |  |            |  |           |  |             |  |                                                                                       |  |
| 18/10/16                               | 17:36 | 21.60                             | 21.60        | 250                    | Dry         |                            |       |                  |                                                                                                                                                                                                                                                                                                                                                                          |    |  |            |  |           |  |             |  |                                                                                       |  |
| 19/10/16                               | 07:37 | 21.60                             | 21.60        | 250                    | 5.40        |                            |       |                  |                                                                                                                                                                                                                                                                                                                                                                          |    |  |            |  |           |  |             |  |                                                                                       |  |
| 19/10/16                               | 17:00 | 27.00                             | 27.00        | 250                    | Dry         |                            |       |                  |                                                                                                                                                                                                                                                                                                                                                                          |    |  |            |  |           |  |             |  |                                                                                       |  |
| 20/10/16                               | 17:39 | 34.00                             | 34.00        | 200                    | Dry         |                            |       |                  |                                                                                                                                                                                                                                                                                                                                                                          |    |  |            |  |           |  |             |  |                                                                                       |  |
| 21/10/16                               | 16:41 | 35.00                             | 35.00        | 200                    | Dry         |                            |       |                  |                                                                                                                                                                                                                                                                                                                                                                          |    |  |            |  |           |  |             |  |                                                                                       |  |
| Method Used:                           |       | Inspection pit + Cable percussion |              | Plant Used:            |             | Dando 3000                 |       | Drilled By:      |                                                                                                                                                                                                                                                                                                                                                                          | MC |  | Logged By: |  | JTownsend |  | Checked By: |  |  |  |



# BOREHOLE LOG

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH22</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>17.10.16</b><br>End: <b>21.10.16</b> | Ground Level: <b>11.89</b> | National Grid Co-ordinate: <b>E:531009.5 N:182200.0</b> |  | Sheet: <b>2 of 4</b>  |

| Samples and In-situ Tests |    |      |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                  | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|---------------------------|-------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results                   |       |                            |                                                                                                                                                                        |               |                   |                         |
| 9.00                      | 13 | ES   | J+V+T                     |       |                            | Stiff becoming very stiff with depth light brown mottled bluish grey silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)                                               |               |                   |                         |
| 9.00                      | 19 | D    |                           |       |                            |                                                                                                                                                                        |               |                   |                         |
| 9.00-9.50                 | 20 | B    |                           |       |                            |                                                                                                                                                                        |               |                   |                         |
| 9.00-9.45                 | 21 | SPT  | 4,4/7,8,9,9<br>N=33       |       |                            |                                                                                                                                                                        |               |                   |                         |
| 9.00                      |    | PID  | 0.0ppm                    |       |                            |                                                                                                                                                                        |               |                   |                         |
| 10.00                     | 14 | ES   | J+V+T                     |       |                            |                                                                                                                                                                        |               |                   |                         |
| 10.00                     | 22 | D    |                           |       |                            |                                                                                                                                                                        |               |                   |                         |
| 10.00                     |    | PID  | 0.2ppm                    |       |                            |                                                                                                                                                                        |               |                   |                         |
| 10.50-10.95               | 23 | U    | 96 blows<br>100% recovery |       |                            |                                                                                                                                                                        |               |                   |                         |
| 10.90                     | 24 | D    |                           |       |                            |                                                                                                                                                                        |               |                   |                         |
| 12.00-12.45               | 25 | SPT  | 4,5/7,9,10,10<br>N=36     |       |                            | Dense brown silty fine SAND.<br>(LAMBETH GROUP - LAMINATED BEDS - CHANNEL SANDS)                                                                                       |               | (7.10)            |                         |
| 12.00-12.50               | 26 | B    |                           |       |                            |                                                                                                                                                                        |               |                   |                         |
| 13.00                     | 15 | ES   | J+V+T                     |       |                            |                                                                                                                                                                        |               |                   |                         |
| 13.00                     | 27 | D    |                           |       |                            |                                                                                                                                                                        |               |                   |                         |
| 13.00                     |    | PID  | 0.0ppm                    |       |                            |                                                                                                                                                                        |               |                   |                         |
| 13.50-13.95               | 28 | U    | 99 blows                  |       |                            |                                                                                                                                                                        |               |                   |                         |
| 13.50-14.00               | 29 | B    |                           |       |                            |                                                                                                                                                                        |               |                   |                         |
| 14.50                     | 30 | D    |                           |       |                            |                                                                                                                                                                        |               |                   |                         |
| 15.00-15.45               | 31 | SPT  | 4,6/9,10,10,11<br>N=40    |       |                            |                                                                                                                                                                        |               |                   |                         |
| 15.00-15.50               | 32 | B    |                           |       |                            |                                                                                                                                                                        |               |                   |                         |
| 15.50                     | 33 | D    |                           |       |                            | Very stiff dark grey extremely closely spaced slightly silty CLAY. With occasional shell fragments and possible selenite crystals.<br>(LAMBETH GROUP - LAMINATED BEDS) |               |                   |                         |
| 15.90                     | 34 | D    |                           |       |                            |                                                                                                                                                                        |               |                   |                         |
| 16.00                     | 16 | ES   | J+V                       |       |                            |                                                                                                                                                                        | -4.21         | 16.10             |                         |
| 16.00                     |    | PID  | 0.0ppm                    |       |                            |                                                                                                                                                                        |               |                   |                         |
| 16.10                     | 35 | D    |                           |       |                            |                                                                                                                                                                        |               | (0.90)            |                         |
| 16.50-16.95               | 36 | SPT  | 3,9/11,10,10,12<br>N=43   |       |                            |                                                                                                                                                                        |               |                   |                         |
| 16.50                     | 37 | B    |                           |       |                            |                                                                                                                                                                        | -5.11         | 17.00             |                         |
| 17.00                     | 38 | D    |                           |       |                            |                                                                                                                                                                        |               | (0.80)            |                         |
| 17.80                     | 39 | D    |                           |       |                            |                                                                                                                                                                        | -5.91         | 17.80             |                         |
|                           |    |      |                           |       |                            | Description on next sheet                                                                                                                                              | -6.11         | 18.00             |                         |

| Boring Progress and Water Observations |                                          |                |              |                        |             | Chiselling / Slow Progress |           |                  | General Remarks                                                                                                                                                                                                                                                                       |                    |                                                                                       |
|----------------------------------------|------------------------------------------|----------------|--------------|------------------------|-------------|----------------------------|-----------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|
| Date                                   | Time                                     | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To        | Duration (hh:mm) |                                                                                                                                                                                                                                                                                       |                    |                                                                                       |
|                                        |                                          |                |              |                        |             |                            |           |                  |                                                                                                                                                                                                                                                                                       |                    |                                                                                       |
|                                        |                                          |                |              |                        |             |                            |           |                  |                                                                                                                                                                                                                                                                                       |                    |                                                                                       |
|                                        |                                          |                |              |                        |             |                            |           |                  | 4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 1.0 and 4.0mbgl.<br>5. Borehole backfilled with 3mm shingle gravel filter between 1.0m to 4.0mbgl; sand filter from 0.8m to 1.0m bgl & bentonite seal/grouting between 0.2m and 0.8m bgl; 4.0m to 6.0m bgl |                    |                                                                                       |
|                                        |                                          |                |              |                        |             |                            |           |                  | All dimensions in metres                                                                                                                                                                                                                                                              | Scale: <b>1:50</b> |                                                                                       |
| Method Used:                           | <b>Inspection pit + Cable percussion</b> |                | Plant Used:  | <b>Dando 3000</b>      |             | Drilled By:                | <b>MC</b> |                  | Logged By: <b>JTownsend</b>                                                                                                                                                                                                                                                           | Checked By:        |  |



# BOREHOLE LOG

|                                                   |                                                |                               |                                                            |  |                          |
|---------------------------------------------------|------------------------------------------------|-------------------------------|------------------------------------------------------------|--|--------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |                                                |                               | Client:<br><b>Royal Mail Group Limited</b>                 |  | Borehole:<br><b>BH22</b> |
| Contract Ref:<br><b>28549</b>                     | Start: <b>17.10.16</b><br>End: <b>21.10.16</b> | Ground Level:<br><b>11.89</b> | National Grid Co-ordinate:<br><b>E:531009.5 N:182200.0</b> |  | Sheet:<br><b>3 of 4</b>  |

| Samples and In-situ Tests |          |                |                            | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                                                                                                                       | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----------|----------------|----------------------------|-------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No       | Type           | Results                    |       |                            |                                                                                                                                                                                                                                                                                                                                             |               |                   |                         |
| 18.00<br>18.00-18.45      | 40<br>41 | D<br>SPT       | 7,7/11,12,12,12<br>N=47    |       |                            | Very stiff bluish grey extremely closely spaced slightly gravelly silty CLAY. Gravel is rounded fine to medium Calcrete. With rare Glauconite.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS - CALCRETE)<br><br>Stiff to very stiff bluish grey mottled orangish brown fissured slightly sandy silty CLAY.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS) |               |                   |                         |
| 18.00-18.50               | 42       | B              |                            |       |                            |                                                                                                                                                                                                                                                                                                                                             |               |                   |                         |
| 19.00<br>19.00            | 17<br>43 | ES<br>D        | J+V                        |       |                            |                                                                                                                                                                                                                                                                                                                                             |               |                   |                         |
| 19.50-19.95               | 44       | U              | 110 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                                                                                                             |               | (3.60)            |                         |
| 19.90<br>20.00<br>20.00   | 45<br>18 | D<br>ES<br>PID | J+V<br>0.0ppm              |       |                            |                                                                                                                                                                                                                                                                                                                                             |               |                   |                         |
| 21.00-21.45               | 46       | SPT            | 6,8/10,11,11,12<br>N=44    |       |                            |                                                                                                                                                                                                                                                                                                                                             |               |                   |                         |
| 21.00-21.50               | 47       | B              |                            |       |                            |                                                                                                                                                                                                                                                                                                                                             | -9.71         | 21.60             |                         |
| 21.60                     | 48       | D              |                            |       |                            | Very dense light brown sandy slightly clayey medium to coarse well rounded GRAVEL. Sand is fine well rounded flint.<br>(LAMBETH GROUP - UPNOR FORMATION)                                                                                                                                                                                    |               |                   |                         |
| 22.00                     | 49       | D              |                            |       |                            |                                                                                                                                                                                                                                                                                                                                             |               | (1.40)            |                         |
| 22.50-22.82               | 4        | SPT(c)         | 4,5/16,26,8<br>for 20mm    |       |                            |                                                                                                                                                                                                                                                                                                                                             |               |                   |                         |
| 22.80-23.00               | 50       | LB             |                            |       |                            |                                                                                                                                                                                                                                                                                                                                             | -11.11        | 23.00             |                         |
| 23.00                     | 51       | D              |                            |       |                            | Stiff to very stiff light orangish brown slightly sandy very gravelly CLAY. Gravel is well rounded medium to coarse flint.<br>(LAMBETH GROUP - UPNOR FORMATION)                                                                                                                                                                             |               |                   |                         |
| 24.00-24.27               | 5        | SPT(c)         | 10,7/28,22<br>for 45mm     |       |                            |                                                                                                                                                                                                                                                                                                                                             |               | (1.90)            |                         |
| 24.00-24.50               | 52       | LB             |                            |       |                            |                                                                                                                                                                                                                                                                                                                                             | -13.01        | 24.90             |                         |
| 24.90<br>25.00<br>25.00   | 53<br>19 | D<br>ES<br>PID | J+V<br>0.0ppm              |       |                            | Stiff to very stiff greenish brown very sandy slightly gravelly CLAY. Sand is fine to coarse quartz. Gravel is rounded medium to coarse flint.<br>(LAMBETH GROUP - UPNOR FORMATION)                                                                                                                                                         |               |                   |                         |
| 25.50-25.95               | 54       | U              | 150 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                                                                                                                                             |               | (1.30)            |                         |
| 26.20                     | 55       | D              |                            |       |                            | Very dense dark greyish green slightly sandy GRAVEL. Sand is fine to coarse quartz well rounded medium to coarse flint.<br>(LAMBETH GROUP - UPNOR FORMATION)                                                                                                                                                                                | -14.31        | 26.20             |                         |
|                           |          |                |                            |       |                            |                                                                                                                                                                                                                                                                                                                                             |               | (1.60)            |                         |

| Boring Progress and Water Observations |                                          |                |              |                        |                   | Chiselling / Slow Progress |             |                  | General Remarks                                                                                                                                                                                                                                              |            |                    |             |                                                                                                  |
|----------------------------------------|------------------------------------------|----------------|--------------|------------------------|-------------------|----------------------------|-------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------|-------------|--------------------------------------------------------------------------------------------------|
| Date                                   | Time                                     | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth       | From                       | To          | Duration (hh:mm) |                                                                                                                                                                                                                                                              |            |                    |             |                                                                                                  |
|                                        |                                          |                |              |                        |                   |                            |             |                  |                                                                                                                                                                                                                                                              |            |                    |             |                                                                                                  |
|                                        |                                          |                |              |                        |                   |                            |             |                  | and 18.0m to 21.6m bgl with compacted backfill (clay/sand) from 6.0m to 18.0m bgl and 21.6m bgl to base of borehole and installation of flush cover.<br>6. PID = Photo ionisation detector with 10.6eV bulb<br>7. Small water seepage observed by driller at |            |                    |             |                                                                                                  |
|                                        |                                          |                |              |                        |                   |                            |             |                  | All dimensions in metres                                                                                                                                                                                                                                     |            | Scale: <b>1:50</b> |             |                                                                                                  |
| Method Used:                           | <b>Inspection pit + Cable percussion</b> |                |              | Plant Used:            | <b>Dando 3000</b> |                            | Drilled By: | <b>MC</b>        |                                                                                                                                                                                                                                                              | Logged By: | <b>JTownsend</b>   | Checked By: | <div></div> |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                          |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH22</b> |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>17.10.16</b><br>End: <b>21.10.16</b> | Ground Level:<br><b>11.89</b>              |  | National Grid Co-ordinate:<br><b>E:531009.5 N:182200.0</b> |                          | Sheet:<br><b>4 of 4</b> |

| Samples and In-situ Tests |    |        |                      | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                         | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|--------|----------------------|-------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type   | Results              |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 27.00-27.26               | 6  | SPT(c) | 10,13/25,25 for 39mm |       |                            | Very dense dark greyish green slightly sandy GRAVEL. Sand is fine to coarse quartz well rounded medium to coarse flint. (LAMBETH GROUP - UPNOR FORMATION)<br>(stratum copied from 26.20m from previous sheet) | -15.91        | 27.80             |                         |
| 27.00-27.50               | 56 | LB     |                      |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 27.80                     | 57 | D      |                      |       |                            | Very dense grey silty fine SAND. (THANET SAND FORMATION)                                                                                                                                                      |               | (7.20)            |                         |
| 28.50-28.71               | 58 | SPT    | 19,6/29,21 for 45mm  |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 28.50-29.00               | 59 | B      |                      |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 29.50                     | 60 | D      |                      |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 30.00-30.07               | 61 | SPT    | 25/50 for 37mm       |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 30.00-30.50               | 62 | LB     |                      |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 31.00                     | 63 | D      |                      |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 31.50-31.63               | 64 | SPT    | 22,3/50 for 55mm     |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 31.50-32.00               | 65 | LB     |                      |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 32.50                     | 66 | D      |                      |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 33.00-33.05               | 67 | SPT    | 25/50 for 31mm       |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 33.00-33.50               | 68 | LB     |                      |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 34.00                     | 69 | LB     |                      |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 34.50-34.59               | 70 | SPT    | 25/50 for 39mm       |       |                            |                                                                                                                                                                                                               |               |                   |                         |
| 34.50-35.00               | 71 | B      |                      |       |                            |                                                                                                                                                                                                               |               |                   |                         |
|                           |    |        |                      |       |                            | Borehole terminated at 35.0m bgl. Driller indicated refusal due to very dense gravel bed at depth.                                                                                                            | -23.11        | 35.00             |                         |

| Boring Progress and Water Observations |                                   |                |              |                        |             | Chiselling / Slow Progress |             |                  | General Remarks                                                                                                           |           |             |                                                                                       |
|----------------------------------------|-----------------------------------|----------------|--------------|------------------------|-------------|----------------------------|-------------|------------------|---------------------------------------------------------------------------------------------------------------------------|-----------|-------------|---------------------------------------------------------------------------------------|
| Date                                   | Time                              | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To          | Duration (hh:mm) |                                                                                                                           |           |             |                                                                                       |
|                                        |                                   |                |              |                        |             |                            |             |                  |                                                                                                                           |           |             |                                                                                       |
|                                        |                                   |                |              |                        |             |                            |             |                  | 3.7m bgl with standing water level observed at 3.1m bgl.<br>8. 400L water added to the borehole to drill the Thanet Sand. |           |             |                                                                                       |
|                                        |                                   |                |              |                        |             |                            |             |                  | All dimensions in metres                                                                                                  |           |             |                                                                                       |
|                                        |                                   |                |              |                        |             |                            |             |                  | Scale: 1:50                                                                                                               |           |             |                                                                                       |
| Method Used:                           | Inspection pit + Cable percussion |                |              | Plant Used:            | Dando 3000  |                            | Drilled By: | MC               | Logged By:                                                                                                                | JTownsend | Checked By: |  |

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH23</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>02.11.16</b><br>End: <b>09.11.16</b> | Ground Level: <b>14.01</b> | National Grid Co-ordinate: <b>E:531043.8 N:182212.8</b> |  | Sheet: <b>1 of 5</b>  |

| Samples and In-situ Tests |    |        |                           | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                      | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|--------|---------------------------|-------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type   | Results                   |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
|                           |    |        |                           |       |                            | MADE GROUND: CONCRETE.                                                                                                                                                                                                     | 13.93         | 0.08              |                         |
| 0.40                      | 1  | ES     | T+J+V                     |       |                            | MADE GROUND: Dark reddish brown silty gravelly fine to coarse SAND. Sand is fine and coarse Quartz. Gravel is subrounded to subangular fine to coarse Flint with frequent brick, concrete and lead with rare whole bricks. |               |                   |                         |
| 0.40                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 0.80                      | 2  | ES     | T+J+V                     |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 0.80                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 1.50-1.95                 | 1  | SPT(c) | 1,1/1,1,1<br>N=3          |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 1.50                      | 3  | ES     | T+J+V                     |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 1.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                            |               | (4.12)            |                         |
| 1.50-2.00                 | 1  | B      |                           |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 2.00                      | 4  | ES     | T+J+V                     |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 2.00                      |    | PID    | 8.0ppm                    |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 2.20                      | 2  | D      |                           |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 2.50-2.95                 | 2  | SPT(c) | 1/1,1,1,1<br>N=4          |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 2.50                      | 5  | ES     | T+J+V                     |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 2.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 2.53-3.00                 | 3  | B      |                           |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 3.00                      | 6  | ES     | T+J+V                     |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 3.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 3.20                      | 4  | D      |                           |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 3.50-3.95                 | 3  | SPT(c) | 1/1,1,1,1<br>N=3          |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 3.50-4.00                 | 5  | B      |                           |       |                            |                                                                                                                                                                                                                            | 9.81          | 4.20              |                         |
| 3.50                      | 7  | ES     | T+J+V                     |       |                            | MADE GROUND: Soft light brown to black slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse Quartz. Gravel is subrounded to angular medium to coarse Flint, brick and concrete. Weak organic odour.         |               |                   |                         |
| 3.50                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 4.00                      | 8  | ES     | T+J+V                     |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 4.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                            |               | (1.30)            |                         |
| 4.20                      | 6  | D      |                           |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 4.50-4.95                 | 4  | SPT(c) | 1,1/2,1,2,1<br>N=6        |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 4.50-5.00                 | 7  | B      |                           |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 4.50                      | 9  | ES     | T+J+V                     |       |                            |                                                                                                                                                                                                                            | 8.51          | 5.50              |                         |
| 4.50                      |    | PID    | 0.0ppm                    |       |                            | Firm light orangish brown mottled bluish grey slightly sandy silty CLAY. With occasional Relict roots. (LONDON CLAY FORMATION)                                                                                             |               |                   |                         |
| 5.00                      | 10 | ES     | T+J+V                     |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 5.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 5.20                      | 8  | D      |                           |       |                            |                                                                                                                                                                                                                            |               | (1.50)            |                         |
| 5.50                      | 9  | D      |                           |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 6.00-6.45                 | 10 | U      | 72 blows<br>100% recovery |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 6.00                      | 11 | ES     | T+J+V                     |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 6.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 6.40                      | 11 | D      |                           |       |                            |                                                                                                                                                                                                                            | 7.01          | 7.00              |                         |
| 7.00                      | 12 | ES     | T+J+V                     |       |                            | Firm to stiff brownish grey extremely closely spaced fissured silty CLAY. With rare Relict roots and possible selenite crystals. (LONDON CLAY FORMATION)                                                                   |               |                   |                         |
| 7.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 7.01                      | 12 | D      |                           |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 7.50-7.95                 | 13 | SPT    | 2,3/3,4,4,4<br>N=15       |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 7.50-8.00                 | 14 | B      |                           |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 8.00                      | 13 | ES     | T+J+V                     |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 8.00                      |    | PID    | 0.0ppm                    |       |                            |                                                                                                                                                                                                                            |               |                   |                         |
| 8.50                      | 15 | D      |                           |       |                            |                                                                                                                                                                                                                            |               | (3.50)            |                         |

| Boring Progress and Water Observations |                                   |                |              |                        |             | Chiselling / Slow Progress |             |                  | General Remarks                                                                                                                                                                                                                                                                                                                                        |         |             |                |
|----------------------------------------|-----------------------------------|----------------|--------------|------------------------|-------------|----------------------------|-------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------|----------------|
| Date                                   | Time                              | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To          | Duration (hh:mm) |                                                                                                                                                                                                                                                                                                                                                        |         |             |                |
| 02/11/16                               | 18:00                             | 12.00          | 12.00        | 250                    | Dry         |                            |             |                  |                                                                                                                                                                                                                                                                                                                                                        |         |             |                |
| 03/11/16                               | 08:10                             | 12.00          | 12.00        | 250                    | Dry         |                            |             |                  |                                                                                                                                                                                                                                                                                                                                                        |         |             |                |
| 03/11/16                               | 18:00                             | 17.00          | 17.00        | 250                    | Dry         |                            |             |                  |                                                                                                                                                                                                                                                                                                                                                        |         |             |                |
| 07/11/16                               | 07:30                             | 17.00          | 17.00        | 250                    | Dry         |                            |             |                  |                                                                                                                                                                                                                                                                                                                                                        |         |             |                |
| 07/11/16                               | 17:45                             | 24.00          | 24.00        | 200                    | Dry         |                            |             |                  |                                                                                                                                                                                                                                                                                                                                                        |         |             |                |
| 08/11/16                               | 18:00                             | 33.00          | 33.00        | 150                    | Dry         |                            |             |                  |                                                                                                                                                                                                                                                                                                                                                        |         |             |                |
| 09/11/16                               | 17:45                             | 40.00          | 33.00        | 150                    | Dry         |                            |             |                  |                                                                                                                                                                                                                                                                                                                                                        |         |             |                |
|                                        |                                   |                |              |                        |             |                            |             |                  | <div>1. Hand dug inspection pit to 1.20m bgl.</div> <div>2. Clean drilling techniques adopted. Bentonite seal created before reduction in casing size.</div> <div>3. Borehole drilled in following diameters: 20.0m bgl in 250mm; 27.0m bgl in 200mm; 40m bgl in 150mm diameter casing to 9.0m bgl in 250mm; 27.0m bgl in 200mm and 33.0m bgl in</div> |         |             |                |
|                                        |                                   |                |              |                        |             | All dimensions in metres   |             |                  | Scale: 1:50                                                                                                                                                                                                                                                                                                                                            |         |             |                |
| Method Used:                           | Inspection pit + Cable percussion |                |              | Plant Used:            | Dando 3000  |                            | Drilled By: | MC               | Logged By:                                                                                                                                                                                                                                                                                                                                             | JBarron | Checked By: | <div>AGS</div> |

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH23</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>02.11.16</b><br>End: <b>09.11.16</b> | Ground Level: <b>14.01</b> | National Grid Co-ordinate: <b>E:531043.8 N:182212.8</b> |  | Sheet: <b>2 of 5</b>  |

| Samples and In-situ Tests |          |           |                                              | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                          | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----------|-----------|----------------------------------------------|-------|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No       | Type      | Results                                      |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 9.00<br>9.00-9.45         | 14<br>16 | ES<br>U   | T+J+V<br>86 blows<br>100% recovery<br>0.0ppm |       |                            | Firm to stiff brownish grey extremely closely spaced fissured silty CLAY. With rare Relict roots and possible selenite crystals.<br>(LONDON CLAY FORMATION)<br>(stratum copied from 7.00m from previous sheet) |               |                   |                         |
| 9.00<br>9.40              | 17       | PID<br>D  |                                              |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 10.00<br>10.00            | 15       | ES<br>PID | T+J+V<br>0.0ppm                              |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 10.50-10.95               | 18       | SPT       | 3,3/4,5,5,6<br>N=20                          |       |                            |                                                                                                                                                                                                                | 3.51          | 10.50             |                         |
| 10.50<br>10.50-11.00      | 19<br>20 | D<br>B    |                                              |       |                            | Stiff to very stiff light reddish brown mottled light bluish grey fissured silty CLAY.<br>(LAMBETH GROUP - UPPER MOTTLED BEDS)                                                                                 |               |                   |                         |
| 11.50                     | 21       | D         |                                              |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 12.00-12.45               | 22       | U         | 58 blows<br>100% recovery                    |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 12.40                     | 23       | D         |                                              |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 13.00<br>13.00            | 16       | ES<br>PID | T+J+V<br>0.0ppm                              |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 13.50-13.95               | 24       | SPT       | 2,3/4,5,6,6<br>N=21                          |       |                            |                                                                                                                                                                                                                |               | (6.60)            |                         |
| 13.50-14.00               | 25       | B         |                                              |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 14.50                     | 26       | D         |                                              |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 15.00-15.45               | 27       | U         | 69 blows<br>100% recovery                    |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 15.40                     | 28       | D         |                                              |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 16.00<br>16.00            | 17       | ES<br>PID | T+J+V<br>0.0ppm                              |       |                            | Medium dense light greenish brown slightly clayey silty fine SAND.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS - SAND CHANNEL)                                                                                      |               |                   |                         |
| 16.50-16.95               | 29       | SPT       | 3,5/6,6,7,7<br>N=26                          |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 16.50-17.00               | 30       | B         |                                              |       |                            |                                                                                                                                                                                                                |               |                   |                         |
| 17.10                     | 31       | D         |                                              |       |                            |                                                                                                                                                                                                                | -3.09         | 17.10             |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks                                                                                                                                                                                                                                          |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                                                                                                                                                                                                                                                          |
|                                                       |      |                |              |                        |             |                            |    |                  | 150mm diameter.<br>4. Monitoring well installations: Pipe 1 - 50mm HDPE response zone between 3.0 and 6.0m bgl. Pipe 2 - 33mm HDPE with 19mm piezo adapter 19mm piezometer tip installed at 24.8m bgl.<br>5. Borehole backfilled with 3mm shingle gravel |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Drilled By: <b>MC</b>      |    |                  | All dimensions in metres Scale: <b>1:50</b>                                                                                                                                                                                                              |
| Plant Used: <b>Dando 3000</b>                         |      |                |              |                        |             | Logged By: <b>JBarron</b>  |    |                  | Checked By:                                                                                                                                                                                                                                              |

|                                                |                                                |                            |                                                         |  |                       |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Borehole: <b>BH23</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>02.11.16</b><br>End: <b>09.11.16</b> | Ground Level: <b>14.01</b> | National Grid Co-ordinate: <b>E:531043.8 N:182212.8</b> |  | Sheet: <b>3 of 5</b>  |

| Samples and In-situ Tests |    |        |                                          | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                          | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|--------|------------------------------------------|-------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type   | Results                                  |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 18.00-18.45               | 32 | SPT    | 3,4/4,5,4,5<br>N=18                      |       |                            | Medium dense light greenish brown slightly clayey silty fine SAND.<br>(LAMBETH GROUP - LOWER MOTTLED BEDS - SAND CHANNEL)<br>(stratum copied from 17.10m from previous sheet)                                                  |               | (2.40)            |                         |
| 18.00-18.50               | 33 | B      |                                          |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 19.00                     | 18 | ES     | T+J+V                                    |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 19.00                     |    | PID    | 0.0ppm                                   |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 19.00                     |    | PID    | 0.0ppm                                   |       |                            |                                                                                                                                                                                                                                | -5.49         | 19.50             |                         |
| 19.50                     | 34 | D      |                                          |       |                            | Very stiff light greyish brown extremely closely spaced fissured slightly sandy silty CLAY. Sand is fine to medium Quartz. With occasional shell fragments and lignite weak organic odour.<br>(LAMBETH GROUP - LAMINATED BEDS) |               |                   |                         |
| 19.50-19.95               | 35 | U      | 100 blows<br>100% recovery               |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 19.90                     | 36 | D      |                                          |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 20.00                     | 19 | ES     | T+J+V                                    |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 20.00                     |    | PID    | 0.0ppm                                   |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 20.50-20.95               | 37 | SPT    | 4,5/6,7,8,8<br>N=29                      |       |                            | Stiff to very stiff bluish grey mottled reddish brown sandy very gravelly CLAY. Gravel is well rounded fine to coarse Flint.<br>(LAMBETH GROUP - UPNOR FORMATION)                                                              |               | (2.90)            |                         |
| 20.50-21.00               | 38 | B      |                                          |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 21.50                     | 39 | D      |                                          |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 22.00-22.45               | 40 | U      | 150 blows<br>100% recovery               |       |                            |                                                                                                                                                                                                                                | -8.39         | 22.40             |                         |
| 22.40                     | 41 | D      |                                          |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 23.00                     | 42 | D      |                                          |       |                            |                                                                                                                                                                                                                                |               | (1.60)            |                         |
| 23.50-23.75               | 5  | SPT(c) | 8,14/27,23<br>for 25mm<br>N=150*         |       |                            |                                                                                                                                                                                                                                | -9.99         | 24.00             |                         |
| 23.50-24.00               | 43 | B      |                                          |       |                            | Very dense light brown to black slightly sandy fine to coarse GRAVEL. Sand is fine to coarse Quartz. Gravel is well rounded fine to coarse Flint.<br>(LAMBETH GROUP - UPNOR FORMATION)                                         |               |                   |                         |
| 24.50                     | 44 | D      |                                          |       |                            |                                                                                                                                                                                                                                |               | (1.50)            |                         |
| 25.00-25.20               | 6  | SPT(c) | 22,3/41,9<br>for 36mm<br>N=135*<br>T+J+V |       |                            |                                                                                                                                                                                                                                | -11.49        | 25.50             |                         |
| 25.00                     | 20 | ES     |                                          |       |                            | Stiff light brown to greenish brown slightly sandy gravelly CLAY. Sand is fine to coarse Quartz. Gravel is well rounded to subangular fine and coarse Flint.<br>(LAMBETH GROUP - UPNOR FORMATION)                              |               |                   |                         |
| 25.00-25.50               | 45 | B      |                                          |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 25.00                     |    | PID    | 0.0ppm                                   |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 25.50                     | 46 | D      |                                          |       |                            |                                                                                                                                                                                                                                |               | (1.20)            |                         |
| 26.00-26.10               | 7  | SPT(c) | 25/38,12<br>for 10mm<br>N=176*           |       |                            |                                                                                                                                                                                                                                |               |                   |                         |
| 26.00-26.50               | 47 | B      |                                          |       |                            |                                                                                                                                                                                                                                | -12.69        | 26.70             |                         |
| 26.70                     | 48 | D      |                                          |       |                            | Description on next sheet                                                                                                                                                                                                      |               |                   |                         |

| Boring Progress and Water Observations                |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                                  | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                                                                                                                                                                                                                                                                                                            |
|                                                       |      |                |              |                        |             |                            |    |                  | filter between 3.0m to 6.0mbgl; sand filter from 2.5m to 3.0m bgl and 24.0m to 25.5m bgl & bentonite seal/grouting between 0.2m and 2.5m bgl; 6.0m to 8.0m bgl; 22.0m to 24.0m bgl and 25.5m to 27.5m bgl with compacted backfill (clay/sand) from 8.0m to 22.0m bgl and 27.5m bgl to base of borehole and |
| Method Used: <b>Inspection pit + Cable percussion</b> |      |                |              |                        |             | Drilled By: <b>MC</b>      |    |                  | All dimensions in metres                                                                                                                                                                                                                                                                                   |
| Plant Used: <b>Dando 3000</b>                         |      |                |              |                        |             | Logged By: <b>JBarron</b>  |    |                  | Scale: <b>1:50</b>                                                                                                                                                                                                                                                                                         |
| Checked By: <b>AGS</b>                                |      |                |              |                        |             |                            |    |                  |                                                                                                                                                                                                                                                                                                            |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                          |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH23</b> |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>02.11.16</b><br>End: <b>09.11.16</b> | Ground Level:<br><b>14.01</b>              |  | National Grid Co-ordinate:<br><b>E:531043.8 N:182212.8</b> |                          | Sheet:<br><b>4 of 5</b> |

| Samples and In-situ Tests |    |      |                             | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                                       | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|-----------------------------|-------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results                     |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 27.00                     | 49 | D    |                             |       |                            | Stiff dark greenish brown to light brown very sandy slightly gravelly CLAY. Sand is fine to medium Quartz. Gravel is rounded fine to medium Flint.<br>(LAMBETH GROUP - UPNOR FORMATION)<br>(stratum copied from 26.70m from previous sheet) |               |                   |                         |
| 27.50-27.95               | 50 | U    | 66 blows<br>100% recovery   |       |                            |                                                                                                                                                                                                                                             |               | (2.30)            |                         |
| 28.50                     | 51 | D    |                             |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
|                           |    |      |                             |       |                            | Becoming less sandy                                                                                                                                                                                                                         | -14.99        | 29.00             |                         |
| 29.00-29.11               | 52 | SPT  | 25/50<br>for 70mm<br>N=214* |       |                            | Very dense light greenish brown very silty slightly gravelly fine to medium SAND. Sand is fine to medium Quartz. Gravel is angular to subrounded fine Flint.<br>(THANET SAND FORMATION)                                                     |               |                   |                         |
| 29.00                     | 53 | D    |                             |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 29.00-29.50               | 54 | B    |                             |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 30.00                     | 21 | ES   | T+J+V                       |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 30.00                     | 55 | D    |                             |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 30.00                     |    | PID  | 0.0ppm                      |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 30.50-30.58               | 56 | SPT  | 25/50<br>for 44mm<br>N=341* |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 30.50-31.00               | 57 | B    |                             |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 31.50                     | 58 | D    |                             |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 32.00-32.09               | 59 | SPT  | 25/50<br>for 60mm<br>N=250* |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 32.00-32.50               | 60 | B    |                             |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 33.00                     | 61 | D    |                             |       |                            |                                                                                                                                                                                                                                             |               | (8.50)            |                         |
| 33.50-33.56               | 62 | SPT  | 25/50<br>for 45mm<br>N=333* |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 33.50-34.50               | 63 | B    |                             |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 34.50                     | 64 | D    |                             |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 35.00                     | 22 | ES   | T+J+V                       |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 35.00-35.07               | 65 | SPT  | 25/50<br>for 39mm<br>N=385* |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 35.00-35.50               | 66 | B    |                             |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |
| 35.00                     |    | PID  | 0.0ppm                      |       |                            |                                                                                                                                                                                                                                             |               |                   |                         |

| Boring Progress and Water Observations |                                          |                |              |                        |             | Chiselling / Slow Progress |           |                  | General Remarks                                                                                                                                                                                                    |
|----------------------------------------|------------------------------------------|----------------|--------------|------------------------|-------------|----------------------------|-----------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date                                   | Time                                     | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To        | Duration (hh:mm) |                                                                                                                                                                                                                    |
|                                        |                                          |                |              |                        |             |                            |           |                  |                                                                                                                                                                                                                    |
|                                        |                                          |                |              |                        |             |                            |           |                  | installation of flush cover.<br>6. PID = Photo ionisation detector with 10.6eV bulb<br>7. No groundwater observed by the driller during drilling.<br>8. 300L water added to the borehole to drill the Thanet Sand. |
|                                        |                                          |                |              |                        |             |                            |           |                  | All dimensions in metres                                                                                                                                                                                           |
|                                        |                                          |                |              |                        |             |                            |           |                  | Scale: <b>1:50</b>                                                                                                                                                                                                 |
| Method Used:                           | <b>Inspection pit + Cable percussion</b> |                | Plant Used:  | <b>Dando 3000</b>      |             | Drilled By:                | <b>MC</b> |                  | Logged By:                                                                                                                                                                                                         |
|                                        |                                          |                |              |                        |             |                            |           |                  | <b>JBarron</b>                                                                                                                                                                                                     |
|                                        |                                          |                |              |                        |             |                            |           |                  | Checked By:                                                                                                                                                                                                        |
|                                        |                                          |                |              |                        |             |                            |           |                  | <b>AGS</b>                                                                                                                                                                                                         |



# BOREHOLE LOG

|                                                   |  |                                                |                                            |  |                                                            |                          |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Borehole:<br><b>BH23</b> |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>02.11.16</b><br>End: <b>09.11.16</b> | Ground Level:<br><b>14.01</b>              |  | National Grid Co-ordinate:<br><b>E:531043.8 N:182212.8</b> |                          | Sheet:<br><b>5 of 5</b> |

| Samples and In-situ Tests |    |        |                             | Water | Backfill & Instru-<br>mentation | Description of Strata                                                                                                                                                                                                                       | Reduced Level | Depth (Thick-<br>ness) | Material<br>Graphic<br>Legend |
|---------------------------|----|--------|-----------------------------|-------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------|-------------------------------|
| Depth                     | No | Type   | Results                     |       |                                 |                                                                                                                                                                                                                                             |               |                        |                               |
| 36.00                     | 67 | D      |                             |       |                                 | Very dense light greenish brown very silty slightly gravelly fine to medium SAND. Sand is fine to medium Quartz. Gravel is angular to subrounded fine Flint.<br>(THANET SAND FORMATION)<br>(stratum copied from 29.00m from previous sheet) |               |                        |                               |
| 36.50-36.57               | 68 | SPT    | 25/50<br>for 31mm<br>N=484* |       |                                 |                                                                                                                                                                                                                                             |               |                        |                               |
| 36.50-37.00               | 69 | B      |                             |       |                                 |                                                                                                                                                                                                                                             |               |                        |                               |
| 37.50                     | 70 | D      |                             |       |                                 | Recovery of dark greenish brown slightly clayey sandy fine to medium GRAVEL. Sand is fine to medium Quartz. Gravel is subrounded to angular fine to medium Flint with Chalk.<br>(WHITE CHALK SUBGROUP)                                      | -23.49        | 37.50                  |                               |
| 38.00-38.08               | 8  | SPT(c) | 25/50<br>for 50mm<br>N=300* |       |                                 |                                                                                                                                                                                                                                             |               |                        |                               |
| 38.00-38.50               | 71 | B      |                             |       |                                 |                                                                                                                                                                                                                                             |               | (2.75)                 |                               |
| 39.00                     | 72 | D      |                             |       |                                 |                                                                                                                                                                                                                                             |               |                        |                               |
| 39.50-39.54               | 9  | SPT(c) | 25/50<br>for 22mm<br>N=682* |       |                                 |                                                                                                                                                                                                                                             |               |                        |                               |
| 39.50-40.00               | 73 | B      |                             |       |                                 |                                                                                                                                                                                                                                             |               |                        |                               |
| 40.00-40.03               | 10 | SPT(c) | 25/50<br>for 25mm<br>N=600* |       |                                 |                                                                                                                                                                                                                                             | -26.24        | 40.25                  |                               |
| 40.00                     |    | PID    | 0.0ppm                      |       |                                 | Borehole completed at 40.0m bgl.                                                                                                                                                                                                            |               |                        |                               |
| 40.01                     | 23 | ES     | T+J+V                       |       |                                 |                                                                                                                                                                                                                                             |               |                        |                               |

| Boring Progress and Water Observations |      |                |              |                        |             | Chiselling / Slow Progress |    |                  | General Remarks |  |
|----------------------------------------|------|----------------|--------------|------------------------|-------------|----------------------------|----|------------------|-----------------|--|
| Date                                   | Time | Borehole Depth | Casing Depth | Borehole Diameter (mm) | Water Depth | From                       | To | Duration (hh:mm) |                 |  |
|                                        |      |                |              |                        |             |                            |    |                  |                 |  |
|                                        |      |                |              |                        |             |                            |    |                  |                 |  |
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# WINDOW SAMPLE LOG

|                                                   |  |                                                |                                            |                               |  |                                                            |  |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|-------------------------------|--|------------------------------------------------------------|--|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |                               |  | Window Sample:<br><b>WS13</b>                              |  |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>04.10.16</b><br>End: <b>04.10.16</b> |                                            | Ground Level:<br><b>16.97</b> |  | National Grid Co-ordinate:<br><b>E:530939.8 N:182262.0</b> |  | Sheet:<br><b>1 of 1</b> |

| Progress   |              | Samples / Tests |           |         | Water | Backfill | Description of Strata                                                                                                                                                                                                     | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|------------|--------------|-----------------|-----------|---------|-------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Window Run | Depth        | No              | Type      | Results |       |          |                                                                                                                                                                                                                           |               |                   |                         |
|            | 0.15<br>0.15 | ES1             | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Light brown very silty gravelly fine to medium SAND. Gravel is fine to mediums subrounded to angular flint with occasional whole bricks with occasional brick, concrete, glass, metal and ceramics.          | 15.97         | (1.00)            |                         |
|            | 0.50<br>0.50 | ES2             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                           |               |                   |                         |
|            | 1.00<br>1.00 | ES3             | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Soft to firm light brown sandy slightly gravelly CLAY with rare roots and occasional pockets of SAND. Gravel is fine to coarse subrounded to angular flint with occasional brick, concrete, mortar and coal. | 14.37         | (1.60)            |                         |
|            | 1.40<br>1.40 | ES4             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                           |               |                   |                         |
|            | 2.00<br>2.00 | ES5             | ES<br>PID | 0.1ppm  |       |          | Soft dark brown to black slightly silty sandy slightly gravelly CLAY. Gravel is medium to coarse subrounded flint with brick fragments.                                                                                   | 13.87         | (0.50)            |                         |
|            | 2.60<br>2.60 | ES6             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                           |               |                   |                         |
|            | 3.00<br>3.00 | ES7             | ES<br>PID | 0.1ppm  |       |          | Orange brown slightly clayey slightly gravelly fine to coarse SAND. Gravel is fine subangular flint.                                                                                                                      | 13.57         | 3.40              |                         |
|            | 3.20<br>3.20 | ES8             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                           |               |                   |                         |
|            | 3.80<br>3.80 | ES9             | ES<br>PID | 0.1ppm  |       |          | Firm to stiff bluish grey with orange brown mottling extremely closely spaced thinly laminated slightly silty CLAY.                                                                                                       | (0.60)        |                   |                         |
|            |              |                 |           |         |       |          |                                                                                                                                                                                                                           | 12.97         | 4.00              |                         |
|            |              |                 |           |         |       |          | Terminated at 4.00m.                                                                                                                                                                                                      |               |                   |                         |

| Drilling Progress and Water Observations |                         |                    |                          |                        |                    | General Remarks |             |      |            |           |             |                            |
|------------------------------------------|-------------------------|--------------------|--------------------------|------------------------|--------------------|-----------------|-------------|------|------------|-----------|-------------|----------------------------|
| Date                                     | Time                    | Borehole Depth (m) | Casing Depth (m)         | Borehole Diameter (mm) | Water Depth (m)    |                 |             |      |            |           |             |                            |
|                                          |                         |                    |                          |                        |                    |                 |             |      |            |           |             |                            |
|                                          |                         |                    |                          |                        |                    |                 |             |      |            |           |             |                            |
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|                                          |                         |                    |                          |                        |                    |                 |             |      |            |           |             |                            |
|                                          |                         |                    | All dimensions in metres |                        |                    | Scale:          |             | 1:31 |            |           |             |                            |
| Method Used:                             | Tracked window sampling |                    |                          | Plant Used:            | Archway Competitor |                 | Drilled By: | ???  | Logged By: | JTownsend | Checked By: | <div><div></div></div> AGS |



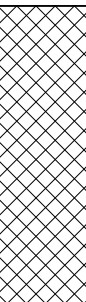
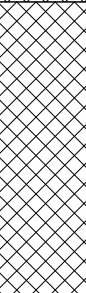
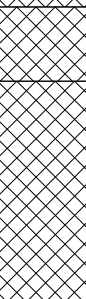
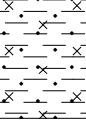
# WINDOW SAMPLE LOG

|                                                   |                                                |                               |                                                            |  |                               |
|---------------------------------------------------|------------------------------------------------|-------------------------------|------------------------------------------------------------|--|-------------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |                                                |                               | Client:<br><b>Royal Mail Group Limited</b>                 |  | Window Sample:<br><b>WS14</b> |
| Contract Ref:<br><b>28549</b>                     | Start: <b>04.10.16</b><br>End: <b>04.10.16</b> | Ground Level:<br><b>16.28</b> | National Grid Co-ordinate:<br><b>E:530967.2 N:182262.9</b> |  | Sheet:<br><b>1 of 1</b>       |

| Progress   |              | Samples / Tests |           |         | Water | Backfill | Description of Strata                                                                                                                                                                                                                          | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|------------|--------------|-----------------|-----------|---------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Window Run | Depth        | No              | Type      | Results |       |          |                                                                                                                                                                                                                                                |               |                   |                         |
|            | 0.20<br>0.20 | ES1             | ES<br>PID | 0.1ppm  |       |          | Light orange brown slightly silty gravelly fine to coarse SAND. Gravel is fine to coarse subangular to rounded flint with occasional brick fragments, concrete, slate, metal and with rare whole bricks and cobbles or igneous rock aggregate. |               | (0.60)            |                         |
|            | 0.50<br>0.50 | ES2             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                                | 15.68         | 0.60              |                         |
|            | 1.00<br>1.00 | ES3             | ES<br>PID | 0.1ppm  |       |          | Soft light brown slightly silty sandy slightly gravelly CLAY. Gravel is fine to medium subrounded flint with occasional brick fragments, concrete, shell fragments and slate.                                                                  |               |                   |                         |
|            | 1.50<br>1.50 | ES4             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                                |               | (1.80)            |                         |
|            | 2.00<br>2.00 | ES5             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                                | 13.88         | 2.40              |                         |
|            | 2.70<br>2.70 | ES6             | ES<br>PID | 0.1ppm  |       |          | Soft dark brown to black slightly silty sandy slightly gravelly CLAY. Gravel is fine subangular flint with occasional brick, concrete and coal.                                                                                                |               |                   |                         |
|            | 3.20<br>3.20 | ES7             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                                |               | (2.30)            |                         |
|            | 3.80<br>3.80 | ES8             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                                |               |                   |                         |
|            | 4.30<br>4.30 | ES9             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                                | 11.58         | 4.70              |                         |
|            | 4.70<br>4.70 | ES10            | ES<br>PID | 0.1ppm  |       |          | Soft light brown slightly silty slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular flint with occasional brick, concrete and matter.                                                                                   | 11.28         | 5.00              |                         |
|            |              |                 |           |         |       |          | Terminated at 5.00m.                                                                                                                                                                                                                           |               |                   |                         |

| Drilling Progress and Water Observations |                         |                    |                  |                        |                    | General Remarks                              |             |        |            |           |             |                                      |
|------------------------------------------|-------------------------|--------------------|------------------|------------------------|--------------------|----------------------------------------------|-------------|--------|------------|-----------|-------------|--------------------------------------|
| Date                                     | Time                    | Borehole Depth (m) | Casing Depth (m) | Borehole Diameter (mm) | Water Depth (m)    |                                              |             |        |            |           |             |                                      |
|                                          |                         |                    |                  |                        |                    | 1. Backfilled with arisings upon completion. |             |        |            |           |             |                                      |
|                                          |                         |                    |                  |                        |                    |                                              |             |        |            |           |             |                                      |
|                                          |                         |                    |                  |                        |                    | All dimensions in metres                     |             | Scale: | 1:31       |           |             |                                      |
| Method Used:                             | Tracked window sampling |                    |                  | Plant Used:            | Archway Competitor |                                              | Drilled By: | ???    | Logged By: | JTownsend | Checked By: | <div><div></div><div>AGS</div></div> |



| Progress   | Samples / Tests |      |           |         | Water | Backfill & Instrumentation                                                          | Description of Strata                                                                                                                                                                                                 | Reduced Level                                                                                                                                                                                           | Depth (Thickness) | Material Graphic Legend                                                               |        |                                                                                       |
|------------|-----------------|------|-----------|---------|-------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|
| Window Run | Depth           | No   | Type      | Results |       |                                                                                     |                                                                                                                                                                                                                       |                                                                                                                                                                                                         |                   |                                                                                       |        |                                                                                       |
|            | 0.20<br>0.20    | ES1  | ES<br>PID | 0.1ppm  |       |    | MADE GROUND: Light brown silty gravelly fine to coarse SAND with frequent whole bricks. Gravel is fine to coarse subrounded to subangular flint with occasional brick fragments, concrete.                            |                                                                                                                                                                                                         |                   |    |        |                                                                                       |
|            | 0.50<br>0.50    | ES2  | ES<br>PID | 0.1ppm  |       |                                                                                     |                                                                                                                                                                                                                       |                                                                                                                                                                                                         |                   |                                                                                       | (1.20) |                                                                                       |
|            | 1.20<br>1.20    | ES3  | ES<br>PID | 0.1ppm  |       |   | MADE GROUND: Dark brown to black slightly silty slightly gravelly fine to medium SAND with frequent wood fibers, paper. Gravel is fine to medium subangular to rounded flint with occasional brick, concrete and ash. | 12.96                                                                                                                                                                                                   | 1.20              |   |        |                                                                                       |
|            | 1.60<br>1.60    | ES4  | ES<br>PID | 0.1ppm  |       |                                                                                     |                                                                                                                                                                                                                       |                                                                                                                                                                                                         |                   |                                                                                       | (1.20) |                                                                                       |
|            | 2.00<br>2.00    | ES5  | ES<br>PID | 0.1ppm  |       |                                                                                     |                                                                                                                                                                                                                       |                                                                                                                                                                                                         |                   |                                                                                       |        |                                                                                       |
|            | 2.50<br>2.50    | ES6  | ES<br>PID | 0.1ppm  |       |                                                                                     |                                                                                                                                                                                                                       | MADE GROUND: Off cream to white slightly silty slightly sandy GRAVEL. Gravel is fine to medium subrounded to subangular flint with occasional concrete and mortar.                                      | 11.76             |                                                                                       | 2.40   |                                                                                       |
|            | 3.00<br>3.00    | ES7  | ES<br>PID | 0.1ppm  |       |                                                                                     |                                                                                                                                                                                                                       | MADE GROUND: Soft dark brown to black slightly sandy slightly gravelly CLAY with rare brick fragments. Gravel is fine to coarse subangular to rounded flint with occasional brick, concrete and mortar. | 11.46             |                                                                                       | 2.70   |  |
|            | 3.50<br>3.50    | ES8  | ES<br>PID | 0.1ppm  |       |                                                                                     |                                                                                                                                                                                                                       |                                                                                                                                                                                                         | (0.90)            |                                                                                       |        |                                                                                       |
|            | 4.00<br>4.00    | ES9  | ES<br>PID | 0.1ppm  |       |  | Dark brown to black slightly sandy slightly gravelly SILT. Gravel is fine subangular flint with rare brick fragment.                                                                                                  | 10.56                                                                                                                                                                                                   | 3.60              |  |        |                                                                                       |
|            | 4.40<br>4.40    | ES10 | ES<br>PID | 0.1ppm  |       |                                                                                     |                                                                                                                                                                                                                       |                                                                                                                                                                                                         |                   |                                                                                       | (0.90) |                                                                                       |
|            | 4.70<br>4.70    | ES12 | ES<br>PID | 0.1ppm  |       |                                                                                     |                                                                                                                                                                                                                       | Soft to firm orange brown with bluish mottling slightly silty slightly sandy CLAY.                                                                                                                      | 9.66              |                                                                                       | 4.50   |  |
|            | 4.80<br>4.80    | ES11 | ES<br>PID | 0.1ppm  |       |                                                                                     |                                                                                                                                                                                                                       |                                                                                                                                                                                                         |                   |                                                                                       | (0.50) |                                                                                       |
|            |                 |      |           |         |       |                                                                                     | Terminated at 5.00m.                                                                                                                                                                                                  | 9.16                                                                                                                                                                                                    | 5.00              |  |        |                                                                                       |

| Drilling Progress and Water Observations |                         |                    |                  |                        |                 | General Remarks          |        |            |            |             |                                                                                       |
|------------------------------------------|-------------------------|--------------------|------------------|------------------------|-----------------|--------------------------|--------|------------|------------|-------------|---------------------------------------------------------------------------------------|
| Date                                     | Time                    | Borehole Depth (m) | Casing Depth (m) | Borehole Diameter (mm) | Water Depth (m) |                          |        |            |            |             |                                                                                       |
|                                          |                         |                    |                  |                        |                 |                          |        |            |            |             |                                                                                       |
|                                          |                         |                    |                  |                        |                 |                          |        |            |            |             |                                                                                       |
|                                          |                         |                    |                  |                        |                 | All dimensions in metres | Scale: | 1:31       |            |             |                                                                                       |
| Method Used:                             | Tracked window sampling |                    | Plant Used:      | Archway Competitor     |                 | Drilled By:              | KDS    | Logged By: | J Townsend | Checked By: |  |

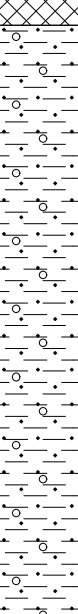
# WINDOW SAMPLE LOG

|                                                |                                                |                            |                                                         |  |                            |
|------------------------------------------------|------------------------------------------------|----------------------------|---------------------------------------------------------|--|----------------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                |                            | Client: <b>Royal Mail Group Limited</b>                 |  | Window Sample: <b>WS16</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>03.10.16</b><br>End: <b>03.10.16</b> | Ground Level: <b>11.89</b> | National Grid Co-ordinate: <b>E:531003.4 N:182202.5</b> |  | Sheet: <b>1 of 1</b>       |

| Progress   | Samples / Tests |     |      |         | Water | Backfill | Description of Strata                                                                                                                                                                                                                               | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|------------|-----------------|-----|------|---------|-------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Window Run | Depth           | No  | Type | Results |       |          |                                                                                                                                                                                                                                                     |               |                   |                         |
|            | 0.20            | ES1 | ES   |         |       |          | MADE GROUND: Dark brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse flint, bricks, concrete with rare mix of wood and occasional ash and clinker. Occasional fragments of cement bound asbestos (~50mm x 40mm). | 11.59         | 0.30              |                         |
|            | 0.80            | ES2 | ES   |         |       |          | Black slightly sandy slightly gravelly SILT. Sand is fine to medium. Gravel is fine to medium subrounded to subangular bricks, mortar and flint.                                                                                                    | 10.99         | 0.90              |                         |
|            |                 |     |      |         |       |          | Dark brown to black slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is rounded to angular flint bricks and mortar.                                                                                                                    | 10.49         | 1.40              |                         |
|            | 1.70            | ES3 | ES   |         |       |          | Brick orange to white very gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular bricks and mortar.                                                                                                                 | 9.99          | 1.90              |                         |
|            | 2.40            | ES4 | ES   |         |       |          | Brown to light brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to medium bricks and mortar.                                                                                                                     | 9.39          | 2.50              |                         |
|            | 2.80            | ES5 | ES   |         |       |          | Dark grey to black with greenish grey slightly sandy gravelly CLAY. Sand is fine to medium. Gravel is fine to coarse subrounded to angular bricks and flint.                                                                                        | 8.59          | 3.30              |                         |
|            |                 |     |      |         |       |          | Reddish brown slightly silty gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint, bricks and mortar.                                                                                                        | 8.19          | 3.70              |                         |
|            | 4.00            | ES6 | ES   |         |       |          | Black slightly silty SAND with mild organic odour. Sand is fine to coarse. Gravel is fine to medium bricks and flint.                                                                                                                               | 7.99          | 3.90              |                         |
|            |                 |     |      |         |       |          | Dark greyish to black slightly sandy CLAY with varied amounts of greenish and grey sand.                                                                                                                                                            | 7.19          | 4.70              |                         |
|            | 5.00            | ES7 | ES   |         |       |          | Dark greenish grey mottling slightly sandy CLAY.                                                                                                                                                                                                    | 6.89          | 5.00              |                         |
|            |                 |     |      |         |       |          | Terminated at 5.00m.                                                                                                                                                                                                                                |               |                   |                         |

| Drilling Progress and Water Observations |                                |                    |                  |                        |                           | General Remarks                                                                                                                                                                                                                                                                                                                                                                       |            |            |                  |
|------------------------------------------|--------------------------------|--------------------|------------------|------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------------|
| Date                                     | Time                           | Borehole Depth (m) | Casing Depth (m) | Borehole Diameter (mm) | Water Depth (m)           |                                                                                                                                                                                                                                                                                                                                                                                       |            |            |                  |
|                                          |                                |                    |                  |                        |                           | 1. Concrete coring to 0.33m followed by an Inspection pit hand dug to 1.1m depth.<br>2. Checks for buried ferrous objects carried out during excavation by specialist unexploded ordnance (UXO) officer using magnetometer.<br>3. No groundwater encountered.<br>4. 50mm diameter standpipe complete with flush protective cover installed on completion. Response zone 0.5m to 1.0m. |            |            |                  |
|                                          |                                |                    |                  |                        |                           | All dimensions in metres                                                                                                                                                                                                                                                                                                                                                              |            | Scale:     | <b>1:31</b>      |
| Method Used:                             | <b>Tracked window sampling</b> |                    |                  | Plant Used:            | <b>Archway Competitor</b> | Drilled By:                                                                                                                                                                                                                                                                                                                                                                           | <b>KDS</b> | Logged By: | <b>JTownsend</b> |
|                                          |                                |                    |                  |                        |                           | Checked By:                                                                                                                                                                                                                                                                                                                                                                           |            |            |                  |



| Progress   | Samples / Tests |      |           |         | Water | Backfill & Instrumentation | Description of Strata                                                                                                                                                                                                         | Reduced Level | Depth (Thickness) | Material Graphic Legend                                                               |
|------------|-----------------|------|-----------|---------|-------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|---------------------------------------------------------------------------------------|
| Window Run | Depth           | No   | Type      | Results |       |                            |                                                                                                                                                                                                                               |               |                   |                                                                                       |
|            |                 |      |           |         |       |                            | Concrete hard standing.                                                                                                                                                                                                       | 14.29         | 0.10              |    |
|            | 0.15<br>0.15    | ES1  | ES<br>PID | 0.1ppm  |       |                            | MADE GROUND: Light brown to dark brown silty gravelly fine to coarse SAND with rare cobble sized concrete and whole bricks. Gravel is fine to coarse subrounded to angular flint with occasional brick, concrete and clinker. |               | (1.20)            |    |
|            | 0.60<br>0.60    | ES2  | ES<br>PID | 0.1ppm  |       |                            |                                                                                                                                                                                                                               |               |                   |                                                                                       |
|            | 1.20<br>1.20    | ES3  | ES<br>PID | 0.1ppm  |       |                            | MADE GROUND: Soft dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular flint with occasional brick fragments, concrete, ash and clinker.                                                     | 13.09         | 1.30              |    |
|            | 1.50<br>1.50    | ES4  | ES<br>PID | 0.1ppm  |       |                            |                                                                                                                                                                                                                               |               | (0.70)            |    |
|            | 1.90<br>1.90    | ES5  | ES<br>PID | 0.1ppm  |       |                            | MADE GROUND: Dark brown slightly silty gravelly fine to coarse SAND with occasional pockets of soft CLAY. Gravel is fine to medium subrounded to angular flint with occasional brick, concrete and mortar.                    | 12.39         | 2.00              |   |
|            | 2.50<br>2.50    | ES6  | ES<br>PID | 0.1ppm  |       |                            |                                                                                                                                                                                                                               | 11.79         | 2.60              |  |
|            | 3.00<br>3.00    | ES7  | ES<br>PID | 0.1ppm  |       |                            | Dark brown to black silty slightly sandy slightly gravelly CLAY. Gravel is fine to medium subangular to rounded flint with occasional shell fragments.                                                                        |               | (2.40)            |  |
|            | 3.50<br>3.50    | ES8  | ES<br>PID | 0.1ppm  |       |                            |                                                                                                                                                                                                                               |               |                   |                                                                                       |
|            | 4.00<br>4.00    | ES9  | ES<br>PID | 0.2ppm  |       |                            |                                                                                                                                                                                                                               |               |                   |                                                                                       |
|            | 4.40<br>4.40    | ES10 | ES<br>PID | 0.1ppm  |       |                            |                                                                                                                                                                                                                               |               |                   |                                                                                       |
|            | 4.90<br>4.90    | ES11 | ES<br>PID | 0.1ppm  |       |                            |                                                                                                                                                                                                                               | 9.39          | 5.00              |  |
|            |                 |      |           |         |       |                            | Terminated at 5.00m.                                                                                                                                                                                                          |               |                   |                                                                                       |

GIGANT LIBRARY\_v8\_06.GLB LibVersion: v8\_06 - Core+Logs - 002 | Log WINDOW SAMPLE LOG - A4P | 28549\_MOUNT PLEASANT\_GPJ - v8\_06.  
Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437500, Fax: 01442 437550, Web: www.rsk.co.uk. | 07/02/17 - 09:29\_JB2 |



# WINDOW SAMPLE LOG

|                                                   |  |                                                |                                            |                               |  |                                                            |  |                         |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|-------------------------------|--|------------------------------------------------------------|--|-------------------------|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |                               |  | Window Sample:<br><b>WS18</b>                              |  |                         |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>04.10.16</b><br>End: <b>04.10.16</b> |                                            | Ground Level:<br><b>17.49</b> |  | National Grid Co-ordinate:<br><b>E:530938.4 N:182305.2</b> |  | Sheet:<br><b>1 of 1</b> |

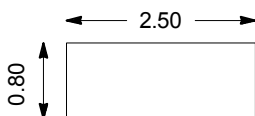
| Progress   |              | Samples / Tests |           |         | Water | Backfill | Description of Strata                                                                                                                                                                            | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|------------|--------------|-----------------|-----------|---------|-------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Window Run | Depth        | No              | Type      | Results |       |          |                                                                                                                                                                                                  |               |                   |                         |
|            |              |                 |           |         |       |          | Bituminous hard standing.                                                                                                                                                                        | 17.35         | 0.14              |                         |
|            | 0.15<br>0.15 | ES1             | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Light brown silty gravelly fine to coarse SAND. Gravel is fine to coarse subrounded to subangular flint with occasional brick, concrete and mortar.                                 |               | (0.76)            |                         |
|            | 0.50<br>0.50 | ES2             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                  | 16.59         | 0.90              |                         |
|            | 1.00<br>1.00 | ES3             | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Light to dark brown slightly silty clayey gravelly fine to coarse SAND. Gravel is fine to coarse subangular to rounded flint with occasional brick concrete and ash.                |               | (1.30)            |                         |
|            | 1.40<br>1.40 | ES4             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                  |               |                   |                         |
|            | 2.10<br>2.10 | ES5             | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Soft dark reddish brown to blackish brown sandy slightly gravelly CLAY. Gravel is fine to medium subangular to rounded flint with frequent brick occasional concrete, ash and coal. | 15.29         | 2.20              |                         |
|            | 2.90<br>2.90 | ES6             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                  |               | (1.20)            |                         |
|            | 3.20<br>3.20 | ES7             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                  | 14.09         | 3.40              |                         |
|            | 3.50<br>3.50 | ES8             | ES<br>PID | 0.1ppm  |       |          | Reddish brown very sandy GRAVEL. Gravel is fine to coarse subangular flint.                                                                                                                      |               | (0.40)            |                         |
|            |              |                 |           |         |       |          |                                                                                                                                                                                                  | 13.69         | 3.80              |                         |
|            |              |                 |           |         |       |          | Firm to stiff orange brown with bluish grey mottling extremely closely spaced thinly laminated slightly silty CLAY with rare relict roots with possible selenite crystals and mudstone.          |               | (1.20)            |                         |
|            | 4.50<br>4.50 | ES9             | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                  | 12.49         | 5.00              |                         |
|            |              |                 |           |         |       |          | Terminated at 5.00m.                                                                                                                                                                             |               |                   |                         |

| Drilling Progress and Water Observations |                         |                    |                  |                        |                    | General Remarks          |             |        |            |           |             |                                                                                       |
|------------------------------------------|-------------------------|--------------------|------------------|------------------------|--------------------|--------------------------|-------------|--------|------------|-----------|-------------|---------------------------------------------------------------------------------------|
| Date                                     | Time                    | Borehole Depth (m) | Casing Depth (m) | Borehole Diameter (mm) | Water Depth (m)    |                          |             |        |            |           |             |                                                                                       |
|                                          |                         |                    |                  |                        |                    |                          |             |        |            |           |             |                                                                                       |
|                                          |                         |                    |                  |                        |                    |                          |             |        |            |           |             |                                                                                       |
|                                          |                         |                    |                  |                        |                    |                          |             |        |            |           |             |                                                                                       |
|                                          |                         |                    |                  |                        |                    |                          |             |        |            |           |             |                                                                                       |
|                                          |                         |                    |                  |                        |                    | All dimensions in metres |             | Scale: | 1:31       |           |             |                                                                                       |
| Method Used:                             | Tracked window sampling |                    |                  | Plant Used:            | Archway Competitor |                          | Drilled By: | ???    | Logged By: | JTownsend | Checked By: |  |

|                                                   |  |                                                |                                            |  |                                                            |                          |  |                         |  |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|--|-------------------------|--|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Trial Pit:<br><b>TP1</b> |  |                         |  |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>14.10.16</b><br>End: <b>14.10.16</b> | Ground Level:<br><b>17.16</b>              |  | National Grid Co-ordinate:<br><b>E:530946.3 N:182313.1</b> |                          |  | Sheet:<br><b>1 of 1</b> |  |

| Samples and In-situ Tests |     |           |         | Water | Backfill | Description of Strata                                                                                                                                                                                                        | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|-----|-----------|---------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No  | Type      | Results |       |          |                                                                                                                                                                                                                              |               |                   |                         |
| 0.10<br>0.10              | ES1 | ES<br>PID | 0.1ppm  |       |          | Bituminous hardstanding.                                                                                                                                                                                                     | 17.06         | 0.10              |                         |
| 0.50<br>0.50              | ES2 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Light brown gravelly SAND with low cobble content. Sand is medium to coarse. Gravel is fine to coarse subrounded to angular concrete, flint and gravels. Cobbles are subangular to angular concrete and bricks. | 16.51         | 0.65<br>(0.55)    |                         |
| 1.00<br>1.00              | ES3 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Light brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular flint bricks concrete with occasional ash and clinker.                                     |               | (0.95)            |                         |
| 1.50<br>1.50              | ES4 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                              | 15.56         | 1.60              |                         |
| 2.00<br>2.00              | ES5 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Brown to dark brown slightly sandy slightly gravelly CLAY with occasional pockets of organic CLAY. (Possibly reworked alluvium)                                                                                 |               | (1.50)            |                         |
| 2.50<br>2.50              | ES6 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                              |               |                   |                         |
| 3.00<br>3.00              | ES7 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark grey slightly clayey gravelly SILT with mild organic odour. Gravel is fine to medium subrounded to angular flint. (Possibly reworked alluvium)                                                             | 14.06         | 3.10              |                         |
| 3.50<br>3.50              | ES8 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark greenish grey to orange slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium flint bricks with occasional chalk fragments.                                              | 13.86         | 3.30              |                         |
|                           |     |           |         |       |          | Terminated at 3.60m.                                                                                                                                                                                                         | 13.56         | 3.60              |                         |

Plan (Not to Scale)



## General Remarks

All dimensions in metres

Scale: **1:31**

Method Used:

**Machine dug**

Plant Used:

**JCB-3CX**

Logged By:

**JTownsend**

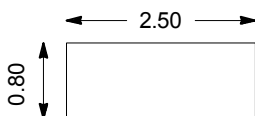
Checked By:



|                                                   |  |                                                |                                            |  |                                                            |                          |                         |  |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|-------------------------|--|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Trial Pit:<br><b>TP2</b> |                         |  |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>14.10.16</b><br>End: <b>14.10.16</b> | Ground Level:<br><b>17.63</b>              |  | National Grid Co-ordinate:<br><b>E:530917.1 N:182291.4</b> |                          | Sheet:<br><b>1 of 1</b> |  |

| Samples and In-situ Tests |     |           |         | Water | Backfill | Description of Strata                                                                                                                                                                                          | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|-----|-----------|---------|-------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No  | Type      | Results |       |          |                                                                                                                                                                                                                |               |                   |                         |
|                           |     |           |         |       |          | Concrete hardstanding.                                                                                                                                                                                         | 17.48         | 0.15              |                         |
|                           |     |           |         |       |          | MADE GROUND: Light brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is subrounded to angular flint, bricks, ash and clinker.                                                                | 17.13         | (0.35)            |                         |
| 0.50<br>0.50              | ES1 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark grey to black slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular bricks, flint, ash, clinker.                                           |               | (0.90)            |                         |
| 1.00<br>1.00              | ES2 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                | 16.23         | 1.40              |                         |
| 1.50<br>1.50              | ES3 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Greenish and yellowish grey slightly sandy slightly gravelly CLAY with dark grey to black inclusions. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular flint with brick. |               | (0.60)            |                         |
| 2.00<br>2.00              | ES4 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Light greenish grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular flint, brick, mortar and chalk.                                                |               | (0.60)            |                         |
| 2.50<br>2.50              | ES5 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark grey to black slightly clayey slightly sandy slightly gravelly SILT. Sand is fine to medium. Gravel is fine to medium rounded to angular flint and rare bricks.                              | 15.03         | 2.60              |                         |
| 3.00<br>3.00              | ES6 | ES<br>PID | 0.1ppm  |       |          | Stiff orange/red slightly sandy CLAY with grey mottling and occasional orange lenses. Grading into orange grey CLAY. (LONDON CLAY FORMATION)                                                                   | 14.63         | 3.00              |                         |
| 3.50<br>3.50              | ES7 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                | 14.03         | 3.60              |                         |
| Terminated at 3.60m.      |     |           |         |       |          |                                                                                                                                                                                                                |               |                   |                         |

Plan (Not to Scale)



## General Remarks

All dimensions in metres

Scale: **1:31**

Method Used:

**Machine dug**

Plant Used:

**JCB-3CX**

Logged By:

**JTownsend**

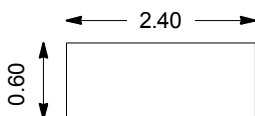
Checked By:



|                                                |  |                        |                                         |                                                         |  |                       |  |
|------------------------------------------------|--|------------------------|-----------------------------------------|---------------------------------------------------------|--|-----------------------|--|
| Contract: <b>Mount Pleasant Sorting Office</b> |  |                        | Client: <b>Royal Mail Group Limited</b> |                                                         |  | Trial Pit: <b>TP3</b> |  |
| Contract Ref: <b>28549</b>                     |  | Start: <b>14.10.16</b> | Ground Level: <b>17.69</b>              | National Grid Co-ordinate: <b>E:530939.6 N:182296.1</b> |  | Sheet: <b>1 of 1</b>  |  |
|                                                |  | End: <b>14.10.16</b>   |                                         |                                                         |  |                       |  |

| Samples and In-situ Tests |     |           |         | Water | Backfill | Description of Strata                                                                                                                                                                                                | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|-----|-----------|---------|-------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No  | Type      | Results |       |          |                                                                                                                                                                                                                      |               |                   |                         |
|                           |     |           |         |       |          | Concrete hardstanding.                                                                                                                                                                                               | 17.59         | 0.10              |                         |
|                           |     |           |         |       |          | Concrete bricks.                                                                                                                                                                                                     | 17.49         | 0.20              |                         |
|                           |     |           |         |       |          | MADE GROUND: Light brown gravelly CLAY.                                                                                                                                                                              | 17.29         | 0.40              |                         |
| 0.50<br>0.50              | ES1 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark reddish brown silty very gravelly fine to coarse SAND. Gravel is fine to coarse subangular to rounded flint with frequent pottery, ceramics with occasional brick and concrete, coal, ash, mortar. |               | (0.60)            |                         |
| 1.00<br>1.00              | ES2 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Soft dark reddish brown very sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to rounded flint with occasional brick, concrete, pottery and frequent bricks.                           | 16.69         | 1.00              |                         |
| 1.50<br>1.50              | ES3 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                      |               |                   |                         |
| 2.00<br>2.00              | ES4 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                      |               | (2.20)            |                         |
| 2.50<br>2.50              | ES5 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                      |               |                   |                         |
| 3.00<br>3.00              | ES6 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                      | 14.49         | 3.20              |                         |
| 3.50<br>3.50              | ES7 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Soft to firm orange brown sandy gravelly CLAY. Gravel is fine to coarse subangular to rounded flint with occasional brick, concrete, coal with rare whole bricks.                                       | 14.19         | 3.50              |                         |
|                           |     |           |         |       |          | Terminated at 3.50m.                                                                                                                                                                                                 |               |                   |                         |

Plan (Not to Scale)



## General Remarks

All dimensions in metres

Scale: **1:31**

Method Used:

**Machine dug**

Plant Used:

**JCB-3CX**

Logged By:

**JTownsend**

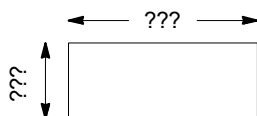
Checked By:



|                                                   |  |                                                |                                            |  |                                                            |                          |  |                         |  |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|--|-------------------------|--|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Trial Pit:<br><b>TP4</b> |  |                         |  |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>11.10.16</b><br>End: <b>11.10.16</b> | Ground Level:<br><b>16.95</b>              |  | National Grid Co-ordinate:<br><b>E:530929.6 N:182274.6</b> |                          |  | Sheet:<br><b>1 of 1</b> |  |

| Samples and In-situ Tests |     |           |         | Water | Backfill | Description of Strata                                                                                                                                                                                                                   | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|-----|-----------|---------|-------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No  | Type      | Results |       |          |                                                                                                                                                                                                                                         |               |                   |                         |
| 0.50<br>0.50              | ES1 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Small weeds over dark soft brown clayey gravelly SAND with low cobble content frequent ash, clinker and occasional glass. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint. Cobbles are brick. | 16.35         | (0.60)<br>0.60    |                         |
| 1.00<br>1.00              | ES2 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Brown to dark brown silty slightly gravelly SAND with frequent ash and clinker. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular flint and brick.                                                 | 15.45         | (0.90)<br>1.50    |                         |
| 1.50<br>1.50              | ES3 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark brown to black slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is fine to medium subrounded to subangular flint and bricks frequent ash and clinker.                                                     | 14.15         | 2.80              |                         |
| 2.00<br>2.00              | ES4 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                         |               | (1.30)            |                         |
| 2.50<br>2.50              | ES5 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                         |               |                   |                         |
| 3.00<br>3.00              | E6S | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Black slightly sandy slightly gravelly SILT with organic odour. Sand is fine to medium. Gravel is fine to medium subrounded to subangular flint bricks glass and rare rootlets.                                            | 13.55         | (0.60)<br>3.40    |                         |
| 3.50<br>3.50              | ES7 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Brown to black silty slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to medium subrounded to angular flint bricks and occasional ash and clinker.                                            | 13.45         | 3.50              |                         |

Plan (Not to Scale)



## General Remarks

All dimensions in metres

Scale: **1:31**

Method Used:

**Machine dug**

Plant Used:

**JCB-3CX**

Logged By:

**JTownsend**

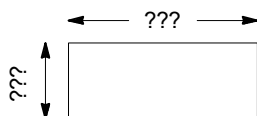
Checked By:



|                                                |  |                        |                                         |                                                         |  |                       |  |
|------------------------------------------------|--|------------------------|-----------------------------------------|---------------------------------------------------------|--|-----------------------|--|
| Contract: <b>Mount Pleasant Sorting Office</b> |  |                        | Client: <b>Royal Mail Group Limited</b> |                                                         |  | Trial Pit: <b>TP5</b> |  |
| Contract Ref: <b>28549</b>                     |  | Start: <b>11.10.16</b> | Ground Level: <b>16.98</b>              | National Grid Co-ordinate: <b>E:530955.3 N:182254.5</b> |  | Sheet: <b>1 of 1</b>  |  |
|                                                |  | End: <b>11.10.16</b>   |                                         |                                                         |  |                       |  |

| Samples and In-situ Tests |     |           |         | Water | Backfill | Description of Strata                                                                                                                                                                                                                                                                               | Reduced Level | Depth (Thickness)  | Material Graphic Legend |
|---------------------------|-----|-----------|---------|-------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------|-------------------------|
| Depth                     | No  | Type      | Results |       |          |                                                                                                                                                                                                                                                                                                     |               |                    |                         |
| 0.50<br>0.50              | ES1 | ES<br>PID | 0.1ppm  |       |          | Bituminous hardstanding.<br>MADE GROUND: Dark brown slightly clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular bricks, flint, mortar, concrete, ash and clinker. Cobbles are subangular to angular brick and concrete with occasional concrete boulders. | 16.93         | 0.05<br><br>(1.25) |                         |
| 1.00<br>1.00              | ES2 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                                                                                     | 15.68         | 1.30               |                         |
| 1.50<br>1.50              | ES3 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Light brown clayey gravelly SAND with cobble content. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular bricks, flints, concrete, ash and clinker. Cobbles are subangular brick.                                                                                  |               | (0.90)             |                         |
| 2.00<br>2.00              | ES4 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                                                                                     | 14.78         | 2.20               |                         |
| 2.50<br>2.50              | ES5 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Black silty slightly sandy slightly gravelly CLAY with organic odour. Sand is fine to medium. Gravel is subrounded to angular flint and brick.                                                                                                                                         |               | (1.30)             |                         |
| 3.00<br>3.00              | ES6 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                                                                                     | 13.48         | 3.50               |                         |
| 3.50<br>3.50              | ES7 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                                                                                     |               |                    |                         |

Plan (Not to Scale)



General Remarks

All dimensions in metres

Scale: **1:31**

Method Used:

**Machine dug**

Plant Used:

**JCB-3CX**

Logged By:

**JTownsend**

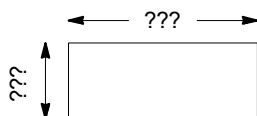
Checked By:



|                                                |  |                        |                                         |  |                                                         |                       |                      |  |
|------------------------------------------------|--|------------------------|-----------------------------------------|--|---------------------------------------------------------|-----------------------|----------------------|--|
| Contract: <b>Mount Pleasant Sorting Office</b> |  |                        | Client: <b>Royal Mail Group Limited</b> |  |                                                         | Trial Pit: <b>TP6</b> |                      |  |
| Contract Ref: <b>28549</b>                     |  | Start: <b>11.10.16</b> | Ground Level: <b>15.13</b>              |  | National Grid Co-ordinate: <b>E:530977.9 N:182232.5</b> |                       | Sheet: <b>1 of 1</b> |  |
|                                                |  | End: <b>11.10.16</b>   |                                         |  |                                                         |                       |                      |  |

| Samples and In-situ Tests |     |           |         | Water | Backfill | Description of Strata                                                                                                                                                                                        | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|-----|-----------|---------|-------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No  | Type      | Results |       |          |                                                                                                                                                                                                              |               |                   |                         |
|                           |     |           |         |       |          | Concrete hardstanding.                                                                                                                                                                                       | 15.03         | 0.10              |                         |
| 0.50<br>0.50              | ES1 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark brown orangish very sandy gravelly CLAY with boulder content. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint ash and clinker. Cobbles are subangular bricks. |               | (1.30)            |                         |
| 1.00<br>1.00              | ES2 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                              | 13.73         | 1.40              |                         |
| 1.50<br>1.50              | ES3 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark brown to black very sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint with frequent ash and brick.                                         |               | (0.60)            |                         |
| 2.00<br>2.00              | ES4 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark grey to black slightly sandy slightly gravelly SILT with strong organic odour. Silt is fine to coarse. Gravel is subrounded to angular bricks and mortar.                                  | 13.13         | 2.00              |                         |
| 2.50<br>2.50              | ES5 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                              |               | (0.70)            |                         |
| 3.00<br>3.00              | ES6 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Brown to dark brown slightly gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular bricks and mortar with frequent clinker and ash.                          | 12.43         | 2.70              |                         |
| 3.50<br>3.50              | ES7 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                              |               | (0.90)            |                         |
|                           |     |           |         |       |          |                                                                                                                                                                                                              | 11.53         | 3.60              |                         |
|                           |     |           |         |       |          | Terminated at 3.60m.                                                                                                                                                                                         |               |                   |                         |

Plan (Not to Scale)



## General Remarks

All dimensions in metres

Scale: **1:31**

Method Used:

**Machine dug**

Plant Used:

**JCB-3CX**

Logged By:

**JTownsend**

Checked By:



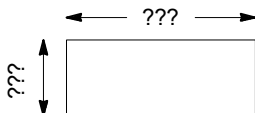
|                                                |                                                |                                         |                                                         |                       |
|------------------------------------------------|------------------------------------------------|-----------------------------------------|---------------------------------------------------------|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                | Client: <b>Royal Mail Group Limited</b> |                                                         | Trial Pit: <b>TP7</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>11.10.16</b><br>End: <b>11.10.16</b> | Ground Level: <b>12.57</b>              | National Grid Co-ordinate: <b>E:531004.6 N:182223.9</b> | Sheet: <b>1 of 1</b>  |

| Samples and In-situ Tests |     |           |         | Water | Backfill | Description of Strata                                                                                                                                                                                                                                                                                        | Reduced Level  | Depth (Thickness)      | Material Graphic Legend |
|---------------------------|-----|-----------|---------|-------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------|-------------------------|
| Depth                     | No  | Type      | Results |       |          |                                                                                                                                                                                                                                                                                                              |                |                        |                         |
| 0.50<br>0.50              | ES1 | ES<br>PID | 0.1ppm  |       |          | Bituminous hardstanding.<br><br>MADE GROUND: Bricks and soil reworked as dark brown slightly clayey gravelly SAND with boulder content. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse flint bricks bitimious concrete, ash and clinker. Cobbles are subrounded to angular brick. | 12.42<br>11.97 | 0.15<br>(0.45)<br>0.60 |                         |
| 1.00<br>1.00              | ES2 | ES<br>PID | 0.1ppm  |       |          | Bricks mortar and concrete hardstanding recovered cobble mudstone.                                                                                                                                                                                                                                           |                | (0.80)                 |                         |
| 1.50<br>1.50              | ES3 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Orangish brown very clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint bricks, ash and clinker.                                                                                                                                                 | 11.17          | 1.40                   |                         |
| 2.00<br>2.00              | ES4 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                                                                                              |                | (0.90)                 |                         |
| 2.50<br>2.50              | ES5 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark grey to black slightly sandy slightly gravelly CLAY. Sand is fine to medium. Gravel is fine to coarse subrounded to angular flint, ash and brick.                                                                                                                                          | 10.27          | 2.30                   |                         |
|                           |     |           |         |       |          |                                                                                                                                                                                                                                                                                                              |                | (0.80)                 |                         |
|                           |     |           |         |       |          | Dark greenish grey slightly silty CLAY with black mottling. (ALLUVIUM)                                                                                                                                                                                                                                       | 9.47           | 3.10                   |                         |
|                           |     |           |         |       |          |                                                                                                                                                                                                                                                                                                              | 9.17           | 3.40                   |                         |
|                           |     |           |         |       |          | Terminated at 3.40m.                                                                                                                                                                                                                                                                                         |                |                        |                         |

|                                 |  |                            |  |
|---------------------------------|--|----------------------------|--|
| Plan (Not to Scale)<br>         |  | General Remarks            |  |
| Method Used: <b>Machine dug</b> |  | Plant Used: <b>JCB-3CX</b> |  |
| Logged By: <b>JTownsend</b>     |  | Checked By: <b>AGS</b>     |  |
| All dimensions in metres        |  | Scale: <b>1:31</b>         |  |

|                                                |                                                |                                         |                                                         |                       |
|------------------------------------------------|------------------------------------------------|-----------------------------------------|---------------------------------------------------------|-----------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                | Client: <b>Royal Mail Group Limited</b> |                                                         | Trial Pit: <b>TP8</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>11.10.16</b><br>End: <b>11.10.16</b> | Ground Level: <b>12.10</b>              | National Grid Co-ordinate: <b>E:530991.6 N:182206.7</b> | Sheet: <b>1 of 1</b>  |

| Samples and In-situ Tests |    |      |         | Water | Backfill | Description of Strata                                                                                                                                                                             | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|----|------|---------|-------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No | Type | Results |       |          |                                                                                                                                                                                                   |               |                   |                         |
| 0.50                      |    | PID  | 0.1ppm  |       |          | Bituminous hardstanding.                                                                                                                                                                          | 11.95         | 0.15              |                         |
|                           |    |      |         |       |          | MADE GROUND: Dark reddish brown gravelly SAND with low cobble content. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular bricks flint concrete, mortar and occasional metal. | 11.60         | (0.35)<br>0.50    |                         |
|                           |    |      |         |       |          | MADE GROUND: Layer of bricks and mortar.                                                                                                                                                          | 11.40         | 0.70              |                         |
| 1.00                      |    | PID  | 0.1ppm  |       |          | MADE GROUND: Dark grey to black slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is fine to medium subrounded to subangular flint and brick fragments.                       |               | (0.50)<br>1.20    |                         |
|                           |    |      |         |       |          | Light brownish orange.                                                                                                                                                                            | 10.90         |                   |                         |
| 1.50                      |    | PID  | 0.1ppm  |       |          |                                                                                                                                                                                                   | 10.50         | 1.60              |                         |
|                           |    |      |         |       |          | MADE GROUND: Dark greyish brown sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium subrounded to subangular flint bricks and shell fragments.                         |               | (1.10)            |                         |
| 2.00                      |    | PID  | 0.1ppm  |       |          |                                                                                                                                                                                                   |               |                   |                         |
|                           |    |      |         |       |          |                                                                                                                                                                                                   |               |                   |                         |
| 2.50                      |    | PID  | 0.1ppm  |       |          |                                                                                                                                                                                                   | 9.40          | 2.70              |                         |
|                           |    |      |         |       |          | MADE GROUND: Dark grey with black silty inclusions very clayey gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular bricks, flints and shell fragments.       | 9.10          | 3.00              |                         |
| Terminated at 3.00m.      |    |      |         |       |          |                                                                                                                                                                                                   |               |                   |                         |

|                                                                                                                |  |                                                                                    |  |                                                                                                   |
|----------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------|
| Plan (Not to Scale)<br><br> |  | General Remarks<br><br><div style="border: 1px solid black; height: 100px;"></div> |  |                                                                                                   |
| Method Used: <b>Machine dug</b>                                                                                |  | Plant Used: <b>JCB-3CX</b>                                                         |  | Logged By: <b>JTownsend</b>                                                                       |
|                                                                                                                |  | Scale: <b>1:31</b>                                                                 |  | Checked By:  |

|                                                   |  |                                                |                                            |  |                                                            |                          |  |                         |  |
|---------------------------------------------------|--|------------------------------------------------|--------------------------------------------|--|------------------------------------------------------------|--------------------------|--|-------------------------|--|
| Contract:<br><b>Mount Pleasant Sorting Office</b> |  |                                                | Client:<br><b>Royal Mail Group Limited</b> |  |                                                            | Trial Pit:<br><b>TP9</b> |  |                         |  |
| Contract Ref:<br><b>28549</b>                     |  | Start: <b>18.10.16</b><br>End: <b>18.10.16</b> | Ground Level:<br><b>14.50</b>              |  | National Grid Co-ordinate:<br><b>E:530997.4 N:182173.3</b> |                          |  | Sheet:<br><b>1 of 1</b> |  |

| Samples and In-situ Tests |     |           |         | Water | Backfill | Description of Strata                                                                                                                                                                                                                         | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|-----|-----------|---------|-------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No  | Type      | Results |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
|                           |     |           |         |       |          | Bituminous hardstanding over concrete.                                                                                                                                                                                                        | 14.25         | 0.25              |                         |
| 0.50                      | ES1 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark brown very clayey slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint with ash, clinker and occasional fragments of glass, wood and metal.                                 |               | (0.45)            |                         |
| 0.50                      |     |           |         |       |          |                                                                                                                                                                                                                                               | 13.80         | 0.70              |                         |
|                           |     |           |         |       |          |                                                                                                                                                                                                                                               |               | (0.40)            |                         |
| 1.00                      |     | PID       | 0.1ppm  |       |          | Obstruction.                                                                                                                                                                                                                                  | 13.40         | 1.10              |                         |
|                           |     |           |         |       |          | MADE GROUND: Brown to light brown clayey slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint, tile, mortar.                                                                                  |               | (2.10)            |                         |
| 1.50                      | ES2 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
| 1.50                      |     |           |         |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
|                           |     |           |         |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
| 2.00                      | ES3 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
| 2.00                      |     |           |         |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
|                           |     |           |         |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
| 2.50                      | ES4 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
| 2.50                      |     |           |         |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
|                           |     |           |         |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
| 3.00                      | ES5 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
| 3.00                      |     |           |         |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
|                           |     |           |         |       |          |                                                                                                                                                                                                                                               |               |                   |                         |
| 3.50                      | ES6 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark to light brown slightly sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular brick, flint, mortar, ash and clinker. Cobbles are subangular to angular brick. | 11.30         | 3.20              |                         |
| 3.50                      |     |           |         |       |          |                                                                                                                                                                                                                                               |               | (0.40)            |                         |
|                           |     |           |         |       |          |                                                                                                                                                                                                                                               | 10.90         | 3.60              |                         |
|                           |     |           |         |       |          | Terminated at 3.60m.                                                                                                                                                                                                                          |               |                   |                         |

|                                 |                            |                             |                    |  |  |
|---------------------------------|----------------------------|-----------------------------|--------------------|--|--|
| Plan (Not to Scale)<br><br>     |                            |                             | General Remarks    |  |  |
|                                 |                            |                             |                    |  |  |
| All dimensions in metres        |                            |                             | Scale: <b>1:31</b> |  |  |
| Method Used: <b>Machine dug</b> | Plant Used: <b>JCB-3CX</b> | Logged By: <b>JTownsend</b> | Checked By:        |  |  |

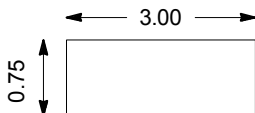
|                                                |                                                |                                         |                                                         |                        |
|------------------------------------------------|------------------------------------------------|-----------------------------------------|---------------------------------------------------------|------------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                | Client: <b>Royal Mail Group Limited</b> |                                                         | Trial Pit: <b>TP10</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>11.10.16</b><br>End: <b>11.10.16</b> | Ground Level: <b>12.35</b>              | National Grid Co-ordinate: <b>E:531020.0 N:182203.7</b> | Sheet: <b>1 of 1</b>   |

| Samples and In-situ Tests |     |           |         | Water | Backfill | Description of Strata                                                                                                                                                                                                                                                                                                             | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|-----|-----------|---------|-------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No  | Type      | Results |       |          |                                                                                                                                                                                                                                                                                                                                   |               |                   |                         |
| 0.50<br>0.50              | ES1 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Bitumen hardstanding.                                                                                                                                                                                                                                                                                                | 12.20         | 0.15              |                         |
| 1.00<br>1.00              | ES2 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark brown reddish brown clayey gravelly SAND with medium cobble content. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular bricks, ash and clinker with occasional flint. Cobbles are subrounded to angular bricks and concrete. Occasional fragments of cement bound asbestos (~50mm x 40mm). | 11.85         | 0.50              |                         |
| 1.50<br>1.50              | ES3 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark brown slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is sub-rounded to sub-angular fine to medium of brick, chalk, ash and clinker.                                                                                                                                                      | 11.65         | 0.70              |                         |
| 2.00<br>2.00              | ES4 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Light golden brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular brick, wood, flint, ash and clinker.                                                                                                                                                                  | 11.05         | 1.30              |                         |
| 2.50<br>2.50              | ES5 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Brownish greenish grey slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to coarse subrounded to angular flint with occasional chalk fragments, shells and inclusions of black silt. Moderate organic odour. (Possible reworked alluvium)                                                | 9.85          | 2.50              |                         |
| 3.00<br>3.00              | ES6 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Dark grey to black slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is fine to medium flint, brick, with rootlets and fragments of wood and moderate organic odour.                                                                                                                             | 9.25          | 3.10              |                         |
| 3.20<br>3.20              | ES7 | ES<br>PID | 0.1ppm  |       |          | ... Small rate of seepage of a possible red coloured liquid at base of trial pit.                                                                                                                                                                                                                                                 | 9.15          | 3.20              |                         |
|                           |     |           |         |       |          | MADE GROUND: Dark greenish grey/golden brown slightly sandy slightly gravelly CLAY with sand inclusions. Sand is fine to coarse. Gravel is fine to coarse subrounded to subangular flint with rare fragments of chalk.<br>Terminated at 3.20m.                                                                                    |               |                   |                         |

|                                 |  |                            |  |
|---------------------------------|--|----------------------------|--|
| <b>Plan (Not to Scale)</b><br>  |  | <b>General Remarks</b>     |  |
| Method Used: <b>Machine dug</b> |  | Plant Used: <b>JCB-3CX</b> |  |
| Logged By: <b>JTownsend</b>     |  | Checked By: <b>AGS</b>     |  |
| All dimensions in metres        |  | Scale: <b>1:31</b>         |  |

|                                                |                                                |                                         |                                       |                        |
|------------------------------------------------|------------------------------------------------|-----------------------------------------|---------------------------------------|------------------------|
| Contract: <b>Mount Pleasant Sorting Office</b> |                                                | Client: <b>Royal Mail Group Limited</b> |                                       | Trial Pit: <b>TP18</b> |
| Contract Ref: <b>28549</b>                     | Start: <b>19.10.16</b><br>End: <b>19.10.16</b> | Ground Level: <b>---</b>                | National Grid Co-ordinate: <b>---</b> | Sheet: <b>1 of 1</b>   |

| Samples and In-situ Tests |     |           |         | Water | Backfill | Description of Strata                                                                                                                                                                                                                                                                                                            | Reduced Level | Depth (Thickness) | Material Graphic Legend |
|---------------------------|-----|-----------|---------|-------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------------|-------------------------|
| Depth                     | No  | Type      | Results |       |          |                                                                                                                                                                                                                                                                                                                                  |               |                   |                         |
| 0.20<br>0.20              | ES1 | ES<br>PID | 0.1ppm  |       |          | MADE GROUND: Grass over dark brown silty gravelly fine to coarse SAND. Gravel is fine subrounded flint with occasional bricks, slate, concrete and timber with rare white bricks and cobble sized concrete, plastic and glass.<br><br>... Timber and glass at north of pit.<br><br>... from 1.00m concrete slab and whole bricks |               |                   |                         |
| 0.60<br>0.60              | ES2 | ES<br>PID | 0.1ppm  |       |          |                                                                                                                                                                                                                                                                                                                                  |               | (1.50)            |                         |
| 1.40<br>1.40              | ES3 | ES<br>PID | 0.2ppm  |       |          |                                                                                                                                                                                                                                                                                                                                  |               | 1.50              |                         |

|                                                                                                                   |  |                                                                                                                                                                                                                                   |  |
|-------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Plan (Not to Scale)</b><br> |  | <b>General Remarks</b><br>1. Trial pit excavated into bank from 1.4m above ground level (agl) to 1.5m below ground level (bgl).<br>2. Ease of trial pit excavation: easy<br>3. On completion, trial pit backfilled with arisings. |  |
| Method Used: <b>Machine dug</b>                                                                                   |  | Plant Used: <b>JCB-3CX</b>                                                                                                                                                                                                        |  |
| Logged By: <b>JTownsend</b>                                                                                       |  | Checked By: <b>AGS</b>                                                                                                                                                                                                            |  |
| All dimensions in metres                                                                                          |  | Scale: <b>1:25</b>                                                                                                                                                                                                                |  |

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PRINT LIBRARY\_V8\_06.GLB LibVersion: v8\_06\_015 PriVersion: v8\_06 - Core+Logs - 002 | Log TRIAL PIT LOG - A4P | 28549\_MOUNT PLEASANT GPJ - v8\_06\_06  
 18 Frogmore Road, Hemel Hempstead, Hertfordshire, HP3 9RT. Tel: 01442 437550, Fax: 01442 437550, Web: www.rsk.co.uk, 07/02/17 - 09:34 | JB2 |

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## Appendix E      Ground Gas Monitoring Results

### Ground Gas Monitoring Equipment List

| Equipment                 | Description                                           | Range/Accuracy                                              |
|---------------------------|-------------------------------------------------------|-------------------------------------------------------------|
| Gas Analyser              | Geotechnical Instruments GA94 Infrared Gas Analyser   | 0 -100 % / $\pm 0.1$ %                                      |
| Gas Analyser Flow Pod     | Geotechnical Instruments GA94 Flow Pods               | 0 -12 l/hr / $\pm 0.1$ l/hr                                 |
| Photo Ionisation Detector | 2020 Photoionisation Aire Monitor (Serial No. EKG328) | 0.5-2000ppm $\pm 10\%$ or $\pm 2$ ppm, whichever is greater |

[illegible][illegible]



## **Appendix F**

## **Groundwater Level Results**

| Borehole     | Ground Level<br>(mAOD) | Groundwater level<br>1 (mbgl) | Groundwater level<br>1 (mAOD) | Groundwater level<br>2 (mbgl) | Groundwater level<br>2 (mAOD) | Groundwater level<br>3 (mbgl) | Groundwater level<br>3 (mAOD) | Groundwater level<br>4 (mbgl) | Groundwater level<br>4 (mAOD) | Groundwater level<br>5 (mbgl) | Groundwater level<br>5 (mAOD) | Groundwater level<br>6 (mbgl) | Groundwater level<br>6 (mAOD) | Groundwater level<br>7 (mbgl) | Groundwater level<br>7 (mAOD) | Groundwater level<br>8 (mbgl) | Groundwater level<br>8 (mAOD) | Groundwater level<br>9 (mbgl) | Groundwater level<br>9 (mAOD) |
|--------------|------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| WS13         | 16.729                 | Dry                           | N/A                           | 2.920                         | 13.809                        | 2.850                         | 13.429                        | 2.850                         | 13.429                        | 2.980                         | 13.749                        |                               |                               |                               |                               |                               |                               |                               |                               |
| WS15         | 14.125                 | 3.490                         | 10.635                        | 3.500                         | 10.625                        | 3.500                         | 10.625                        | 3.400                         | 10.725                        | 3.450                         | 10.675                        |                               |                               |                               |                               |                               |                               |                               |                               |
| WS17         | 14.934                 | 3.860                         | 11.074                        | 3.910                         | 11.024                        | 3.890                         | 11.044                        | 3.850                         | 11.084                        |                               |                               |                               |                               |                               |                               |                               |                               |                               |                               |
| WS18         | 17.494                 | 2.980                         | 14.514                        | 2.990                         | 14.504                        | 2.960                         | 14.534                        | 3.000                         | 14.494                        | 3.000                         | 14.494                        | 3.000                         | 14.494                        | 3.000                         | 14.494                        |                               |                               |                               |                               |
| BH11         | 17.458                 | 5.840                         | 11.620                        | 5.600                         | 11.860                        | 5.590                         | 11.870                        | 5.570                         | 11.890                        | 5.770                         | 11.688                        | 5.670                         | 11.788                        | 5.670                         | 11.788                        | 5.690                         | 11.768                        |                               |                               |
| BH11 Deep    | 17.46                  | 10.400                        | 7.058                         | 10.420                        | 7.038                         | 10.410                        | 7.048                         | 10.450                        | 7.008                         | 10.400                        | 7.060                         | 10.350                        | 7.110                         | 10.350                        | 7.110                         | 10.560                        | 6.898                         |                               |                               |
| BH12         | 16.047                 | 4.770                         | 11.277                        | 4.820                         | 11.227                        | 4.750                         | 11.297                        | 4.670                         | 11.377                        | 4.670                         | 11.377                        | 4.620                         | 11.427                        | 4.640                         | 11.407                        | 4.640                         | 11.407                        | 4.820                         | 11.227                        |
| BH12 Deep    | 16.05                  | 10.120                        | -1.210                        | 17.140                        | -1.090                        | 17.970                        | -1.920                        | 17.850                        | -1.800                        | 17.970                        | -1.920                        | 17.650                        | -1.600                        | 19.500                        | -3.453                        | 19.500                        | -3.453                        | 19.390                        | -3.343                        |
| BH13         | 14.687                 | 1.950                         | 12.737                        | 1.960                         | 12.727                        | 1.960                         | 12.727                        | 1.970                         | 12.717                        | 1.960                         | 12.727                        | 1.960                         | 12.727                        |                               |                               |                               |                               |                               |                               |
| BH13 deep    | 14.69                  | 4.200                         | 10.490                        | 4.190                         | 10.500                        | 4.200                         | 10.490                        | 4.150                         | 10.540                        | 4.200                         | 10.487                        | 4.180                         | 10.507                        | 4.240                         | 10.447                        |                               |                               |                               |                               |
| BH14         | 14.204                 | 4.660                         | 9.544                         | 4.000                         | 10.204                        | 3.950                         | 10.254                        | 3.960                         | 10.244                        | 3.950                         | 10.254                        | 3.960                         | 10.244                        |                               |                               |                               |                               |                               |                               |
| BH14 Deep    | 14.2                   | 26.730                        | -12.530                       | 26.320                        | -12.120                       | 26.450                        | -12.250                       | 26.820                        | -12.620                       | 26.750                        | -12.550                       | 26.740                        | -12.560                       |                               |                               |                               |                               |                               |                               |
| BH15 Shallow | 17.611                 | Dry                           | N/A                           | Dry                           | N/A                           | Dry                           | N/A                           | Dry                           | N/A                           | Dry                           | N/A                           | Dry                           | N/A                           | Dry                           | N/A                           | Dry                           | N/A                           |                               |                               |
| BH15 Deep 1  | 17.611                 | 15.700                        | 1.911                         | 14.030                        | 3.581                         | 14.220                        | 3.391                         | 14.710                        | 2.901                         | 14.710                        | 2.090                         | 13.410                        | 4.201                         | 13.410                        | 4.201                         | 13.190                        | 4.421                         |                               |                               |
| Bh15 deep 2  | 17.611                 | Dry                           | N/A                           | Dry                           | N/A                           | Dry                           | N/A                           | Dry                           | N/A                           | 23.290                        | -5.679                        | 23.100                        | -5.489                        | 23.100                        | -5.489                        | 23.100                        | -5.489                        |                               |                               |
| BH19         | 18.723                 | 3.850                         | 14.873                        | 3.900                         | 14.823                        | 3.860                         | 14.863                        | 3.950                         | 14.773                        | 3.730                         | 14.993                        | 3.750                         | 14.973                        |                               |                               |                               |                               |                               |                               |
| BH19 Deep    | 18.723                 | 8.120                         | 10.603                        | 8.100                         | 10.623                        | 7.500                         | 11.223                        | 7.760                         | 10.963                        | 7.810                         | 10.913                        |                               |                               |                               |                               |                               |                               |                               |                               |
| BH19 deep 2  | 18.723                 | 21.690                        | -2.967                        | 21.500                        | -2.777                        | 21.580                        | -2.857                        | 21.550                        | -2.827                        | 21.470                        | -2.747                        |                               |                               |                               |                               |                               |                               |                               |                               |
| BH20         | 17.169                 | 5.370                         | 11.799                        | 5.420                         | 11.749                        | 5.500                         | 11.669                        | 5.590                         | 11.579                        | 5.690                         | 11.479                        |                               |                               |                               |                               |                               |                               |                               |                               |
| BH21         | 16.92                  | 4.300                         | 12.620                        | 3.010                         | 13.910                        | 2.990                         | 13.930                        | 3.010                         | 13.910                        | 2.750                         | 14.170                        | 2.840                         | 14.080                        | 2.840                         | 14.080                        | 2.980                         | 13.940                        |                               |                               |
| BH21 Deep    | 16.92                  | 9.850                         | 7.070                         | 9.830                         | 7.090                         | 9.830                         | 7.090                         | 9.830                         | 7.090                         | 9.800                         | 7.120                         | 9.740                         | 7.180                         | 9.740                         | 7.180                         | 9.530                         | 7.390                         |                               |                               |
| BH22         | 11.891                 | 1.970                         | 9.921                         | 2.070                         | 9.821                         | 1.990                         | 9.901                         | 1.990                         | 9.901                         | 2.000                         | 9.891                         |                               |                               |                               |                               |                               |                               |                               |                               |
| BH23         | 14.011                 | 3.530                         | 10.481                        | 3.570                         | 10.441                        | 3.600                         | 10.411                        | 3.510                         | 10.501                        | 3.630                         | 10.381                        |                               |                               |                               |                               |                               |                               |                               |                               |
| BH23 deep    | 14.011                 | 24.300                        | -10.289                       | 24.250                        | -10.239                       | 24.200                        | -10.189                       | 24.350                        | -10.339                       | 24.300                        | -10.289                       |                               |                               |                               |                               |                               |                               |                               |                               |



## **Appendix G**

## **Low Flow Groundwater Results**

| Borehole     | pH         |            |            | ORP (mV)   |            |            | Conductivity (µS/cm) |            |            | RDO (mg/l) |            |            | Temperature (°C) |            |            |
|--------------|------------|------------|------------|------------|------------|------------|----------------------|------------|------------|------------|------------|------------|------------------|------------|------------|
| Date         | 10/01/2017 | 30/01/2017 | 09/02/2017 | 10/01/2017 | 30/01/2017 | 09/02/2017 | 10/01/2017           | 30/01/2017 | 09/02/2017 | 10/01/2017 | 30/01/2017 | 09/02/2017 | 10/01/2017       | 30/01/2017 | 09/02/2017 |
| BH11         | N/A        | 13.66      | N/A        | N/A        | -62.33     | N/A        | N/A                  | 1417.36    | N/A        | N/A        | 0.40       | N/A        | N/A              | 13.66      | N/A        |
| BH11 Deep    | N/A        | 7.39       | N/A        | N/A        | -263.72    | N/A        | N/A                  | 1114.48    | N/A        | N/A        | 0.17       | N/A        | N/A              | 14.31      | N/A        |
| BH22 Shallow | N/A        | 10.25      | N/A        | N/A        | 72.70      | N/A        | N/A                  | 2449.03    | N/A        | N/A        | 2.20       | N/A        | N/A              | 10.25      | N/A        |
| BH12 Deep    | 12.9       | N/A        | N/A        | -84.55     | N/A        | N/A        | 16394.81             | N/A        | N/A        | 3.73       | N/A        | N/A        | 14.26            | N/A        | N/A        |
| BH12 Shallow | 11.61      | 12.39      | 12.66      | -281.31    | -225.17    | -249.33    | 1776.5               | 4076.62    | 4650.20    | 0.27       | 0.71       | 0.76       | 14               | 13.07      | 13.46      |
| BH21 Deep    | 8.29       | 7.63       | N/A        | -246.89    | -205.17    | N/A        | 1419.8               | 1471.27    | N/A        | 0.17       | 7.25       | N/A        | 13.94            | 14.49      | N/A        |
| BH21 Shallow | 7.34       | 7.29       | N/A        | 56.73      | 29.55      | N/A        | 1726.59              | 1388.46    | N/A        | 0.86       | 2.08       | N/A        | 13.24            | 12.52      | N/A        |
| BH13 Shallow | 7.19       | 7.35       | N/A        | -143.8     | -151.84    | N/A        | 3119.02              | 3288.44    | N/A        | 0.28       | 0.16       | N/A        | 12.95            | 13.54      | N/A        |
| BH14 Shallow | 7.61       | 7.44       | N/A        | -138.38    | -108.53    | N/A        | 1845.66              | 1740.58    | N/A        | 0.26       | 0.26       | N/A        | 12.99            | 13.29      | N/A        |
| BH19 Shallow | 7.28       | 7.18       | N/A        | 32.22      | 79.75      | N/A        | 2393.84              | 2288.77    | N/A        | 0.54       | 2.51       | N/A        | 12.81            | 12.95      | N/A        |
| BH20 Shallow | N/A        | N/A        | 11.56      | N/A        | N/A        | 13.04      | N/A                  | N/A        | 1617.02    | N/A        | N/A        | 0.11       | N/A              | N/A        | 14.85      |
| BH23 Shallow | 7.16       | 7.26       | N/A        | -126.25    | -33.56     | N/A        | 2562.1               | 2777.72    | N/A        | 0.3        | 0.31       | N/A        | 12.95            | 12.57      | N/A        |



## **Appendix H**

## **Laboratory Results Summary**

| Parameter |      | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  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    |      |      |
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| Revenue   | 2020 | 120  | 127  | 134  | 141  | 148  | 155  | 162  | 169  | 176  | 183  | 190  | 197  | 204  | 211  | 218  | 225  | 232  | 239  | 246  | 253  | 260  | 267  | 274  | 281  | 288  | 295  | 302  | 309  | 316  | 323  | 330  | 337  | 344  | 351  | 358  | 365  | 372  | 379  | 386  | 393  | 400  | 407  | 414  | 421  | 428  | 435  | 442  | 449  | 456  | 463  | 470  | 477  | 484  | 491  | 498  | 505  | 512  | 519  | 526  | 533  | 540  | 547  | 554  | 561  | 568  | 575  | 582  | 589  | 596  | 603  | 610  | 617  | 624  | 631  | 638  | 645  | 652  | 659  | 666  | 673  | 680  | 687  | 694  | 701  | 708  | 715  | 722  | 729  | 736  | 743  | 750 | 757 | 764 | 771 | 778 | 785 | 792 | 799 | 806 | 813 | 820 | 827 | 834 | 841 | 848 | 855 | 862 | 869 | 876 | 883 | 890 | 897 | 904 | 911 | 918 | 925 | 932 | 939 | 946 | 953 | 960 | 967 | 974 | 981 | 988 | 995 | 1002 | 1009 | 1016 | 1023 | 1030 | 1037 | 1044 | 1051 | 1058 | 1065 | 1072 | 1079 | 1086 | 1093 | 1100 | 1107 | 1114 | 1121 | 1128 | 1135 | 1142 | 1149 | 1156 | 1163 | 1170 | 1177 | 1184 | 1191 | 1198 | 1205 | 1212 | 1219 | 1226 | 1233 | 1240 | 1247 | 1254 | 1261 | 1268 | 1275 | 1282 | 1289 | 1296 | 1303 | 1310 | 1317 | 1324 | 1331 | 1338 | 1345 | 1352 | 1359 | 1366 | 1373 | 1380 | 1387 | 1394 | 1401 | 1408 | 1415 | 1422 | 1429 | 1436 | 1443 | 1450 | 1457 | 1464 | 1471 | 1478 | 1485 | 1492 | 1499 | 1506 | 1513 | 1520 | 1527 | 1534 | 1541 | 1548 | 1555 | 1562 | 1569 | 1576 | 1583 | 1590 | 1597 | 1604 | 1611 | 1618 | 1625 | 1632 | 1639 | 1646 | 1653 | 1660 | 1667 | 1674 | 1681 | 1688 | 1695 | 1702 | 1709 | 1716 | 1723 | 1730 | 1737 | 1744 | 1751 | 1758 | 1765 | 1772 | 1779 | 1786 | 1793 | 1800 | 1807 | 1814 | 1821 | 1828 | 1835 | 1842 | 1849 | 1856 | 1863 | 1870 | 1877 | 1884 | 1891 | 1898 | 1905 | 1912 | 1919 | 1926 | 1933 | 1940 | 1947 | 1954 | 1961 | 1968 | 1975 | 1982 | 1989 | 1996 | 2003 | 2010 | 2017 | 2024 | 2031 | 2038 | 2045 | 2052 | 2059 | 2066 | 2073 | 2080 | 2087 | 2094 | 2101 | 2108 | 2115 | 2122 | 2129 | 2136 | 2143 | 2150 | 2157 | 2164 | 2171 | 2178 | 2185 | 2192 | 2199 | 2206 | 2213 | 2220 | 2227 | 2234 | 2241 | 2248 | 2255 | 2262 | 2269 | 2276 | 2283 | 2290 | 2297 | 2304 | 2311 | 2318 | 2325 | 2332 | 2339 | 2346 | 2353 | 2360 | 2367 | 2374 | 2381 | 2388 | 2395 | 2402 | 2409 | 2416 | 2423 | 2430 | 2437 | 2444 | 2451 | 2458 | 2465 | 2472 | 2479 | 2486 | 2493 | 2500 | 2507 | 2514 | 2521 | 2528 | 2535 | 2542 | 2549 | 2556 | 2563 | 2570 | 2577 | 2584 | 2591 | 2598 | 2605 | 2612 | 2619 | 2626 | 2633 | 2640 | 2647 | 2654 | 2661 | 2668 | 2675 | 2682 | 2689 | 2696 | 2703 | 2710 | 2717 | 2724 | 2731 | 2738 | 2745 | 2752 | 2759 | 2766 | 2773 | 2780 | 2787 | 2794 | 2801 | 2808 | 2815 | 2822 | 2829 | 2836 | 2843 | 2850 | 2857 | 2864 | 2871 | 2878 | 2885 | 2892 | 2899 | 2906 | 2913 | 2920 | 2927 | 2934 | 2941 | 2948 | 2955 | 2962 | 2969 | 2976 | 2983 | 2990 | 2997 | 3004 | 3011 | 3018 | 3025 | 3032 | 3039 | 3046 | 3053 | 3060 | 3067 | 3074 | 3081 | 3088 | 3095 | 3102 | 3109 | 3116 | 3123 | 3130 | 3137 | 3144 | 3151 | 3158 | 3165 | 3172 | 3179 | 3186 | 3193 | 3200 | 3207 | 3214 | 3221 | 3228 | 3235 | 3242 | 3249 | 3256 | 3263 | 3270 | 3277 | 3284 | 3291 | 3298 | 3305 | 3312 | 3319 | 3326 | 3333 | 3340 | 3347 | 3354 | 3361 | 3368 | 3375 | 3382 | 3389 | 3396 | 3403 | 3410 | 3417 | 3424 | 3431 | 3438 | 3445 | 3452 | 3459 | 3466 | 3473 | 3480 | 3487 | 3494 | 3501 | 3508 | 3515 | 3522 | 3529 | 3536 | 3543 | 3550 | 3557 | 3564 | 3571 | 3578 | 3585 | 3592 | 3599 | 3606 | 3613 | 3620 | 3627 | 3634 | 3641 | 3648 | 3655 | 3662 | 3669 | 3676 | 3683 | 3690 | 3697 | 3704 | 3711 | 3718 | 3725 | 3732 | 3739 | 3746 | 3753 | 3760 | 3767 | 3774 | 3781 | 3788 | 3795 | 3802 | 3809 | 3816 | 3823 | 3830 | 3837 | 3844 | 3851 | 3858 | 3865 | 3872 | 3879 | 3886 | 3893 | 3900 | 3907 | 3914 | 3921 | 3928 | 3935 | 3942 | 3949 | 3956 | 3963 | 3970 | 3977 | 3984 | 3991 | 3998 | 4005 | 4012 | 4019 | 4026 | 4033 | 4040 | 4047 | 4054 | 4061 | 4068 | 4075 | 4082 | 4089 | 4096 | 4103 | 4110 | 4117 | 4124 | 4131 | 4138 | 4145 | 4152 | 4159 | 4166 | 4173 | 4180 | 4187 | 4194 | 4201 | 4208 | 4215 | 4222 | 4229 | 4236 | 4243 | 4250 | 4257 | 4264 | 4271 | 4278 | 4285 | 4292 | 4299 | 4306 | 4313 | 4320 | 4327 | 4334 | 4341 | 4348 | 4355 | 4362 | 4369 | 4376 | 4383 | 4390 | 4397 | 4404 | 4411 | 4418 | 4425 | 4432 | 4439 | 4446 | 4453 | 4460 | 4467 | 4474 | 4481 | 4488 | 4495 | 4502 | 4509 | 4516 | 4523 | 4530 | 4537 | 4544 | 4551 | 4558 | 4565 | 4572 | 4579 | 4586 | 4593 | 4600 | 4607 | 4614 | 4621 | 4628 | 4635 | 4642 | 4649 | 4656 | 4663 | 4670 | 4677 | 4684 | 4691 | 4698 | 4705 | 4712 | 4719 | 4726 | 4733 | 4740 | 4747 | 4754 | 4761 | 4768 | 4775 | 4782 | 4789 | 4796 | 4803 | 4810 | 4817 | 4824 | 4831 | 4838 | 4845 | 4852 | 4859 | 4866 | 4873 | 4880 | 4887 | 4894 | 4901 | 4908 | 4915 | 4922 | 4929 | 4936 | 4943 | 4950 | 4957 | 4964 | 4971 | 4978 | 4985 | 4992 | 4999 | 5006 | 5013 | 5020 | 5027 | 5034 | 5041 | 5048 | 5055 | 5062 | 5069 | 5076 | 5083 | 5090 | 5097 | 5104 | 5111 | 5118 | 5125 | 5132 | 5139 | 5146 | 5153 | 5160 | 5167 | 5174 | 5181 | 5188 | 5195 | 5202 | 5209 | 5216 | 5223 | 5230 | 5237 | 5244 | 5251 | 5258 | 5265 | 5272 | 5279 | 5286 | 5293 | 5300 | 5307 | 5314 | 5321 | 5328 | 5335 | 5342 | 5349 | 5356 | 5363 | 5370 | 5377 | 5384 | 5391 | 5398 | 5405 | 5412 | 5419 | 5426 | 5433 | 5440 | 5447 | 5454 | 5461 | 5468 | 5475 | 5482 | 5489 | 5496 | 5503 | 5510 | 5517 | 5524 | 5531 | 5538 | 5545 | 5552 | 5559 | 5566 | 5573 | 5580 | 5587 | 5594 | 5601 | 5608 | 5615 | 5622 | 5629 | 5636 | 5643 | 5650 | 5657 | 5664 | 5671 | 5678 | 5685 | 5692 | 5699 | 5706 | 5713 | 5720 | 5727 | 5734 | 5741 | 5748 | 5755 | 5762 | 5769 | 5776 | 5783 | 5790 | 5797 | 5804 | 5811 | 5818 | 5825 | 5832 | 5839 | 5846 | 5853 | 5860 | 5867 | 5874 | 5881 | 5888 | 5895 | 5902 | 5909 | 5916 | 5923 | 5930 | 5937 | 5944 | 5951 | 5958 | 5965 | 5972 | 5979 | 5986 | 5993 | 6000 | 6007 | 6014 | 6021 | 6028 | 6035 | 6042 | 6049 | 6056 | 6063 | 6070 | 6077 | 6084 | 6091 | 6098 | 6105 | 6112 | 6119 | 6126 | 6133 | 6140 | 6147 | 6154 | 6161 | 6168 | 6175 | 6182 | 6189 | 6196 | 6203 | 6210 | 6217 | 6224 | 6231 | 6238 | 6245 | 6252 | 6259 | 6266 | 6273 | 6280 | 6287 | 6294 | 6301 | 6308 | 6315 | 6322 | 6329 | 6336 | 6343 | 6350 | 6357 | 6364 | 6371 | 6378 | 6385 | 6392 | 6399 | 6406 | 6413 | 6420 | 6427 | 6434 | 6441 | 6448 | 6455 | 6462 | 6469 | 6476 | 6483 | 6490 | 6497 | 6504 | 6511 | 6518 | 6525 | 6532 | 6539 | 6546 | 6553 | 6560 | 6567 | 6574 | 6581 | 6588 | 6595 | 6602 | 6609 | 6616 | 6623 | 6630 | 6637 | 6644 | 6651 | 6658 | 6665 | 6672 | 6679 | 6686 | 6693 | 6700 | 6707 | 6714 | 6721 | 6728 | 6735 | 6742 | 6749 | 6756 | 6763 | 6770 | 6777 | 6784 | 6791 | 6798 | 6805 | 6812 | 6819 | 6826 | 6833 | 6840 | 6847 | 6854 | 6861 | 6868 | 6875 | 6882 | 6889 | 6896 | 6903 | 6910 | 6917 | 6924 | 6931 | 6938 | 6945 | 6952 | 6959 | 6966 | 6973 | 6980 | 6987 | 6994 | 7001 | 7008 | 7015 | 7022 | 7029 | 7036 | 7043 | 7050 | 7057 | 7064 | 7071 | 7078 | 7085 | 7092 | 7099 | 7106 | 7113 | 7120 | 7127 | 7134 | 7141 | 7148 | 7155 | 7162 | 7169 | 7176 | 7183 | 7190 | 7197 | 7204 | 7211 | 7218 | 7225 | 7232 | 7239 | 7246 | 7253 | 7260 | 7267 | 7274 | 7281 | 7288 | 7295 | 7302 | 7309 | 7316 | 7323 | 7330 | 7337 | 7344 | 7351 | 7358 | 7365 | 7372 | 7379 | 7386 | 7393 | 7400 | 7407 | 7414 | 7421 | 7428 | 7435 | 7442 | 7449 | 7456 | 7463 | 7470 | 7477 | 7484 | 7491 | 7498 | 7505 | 7512 | 7519 | 7526 | 7533 | 7540 | 7547 | 7554 | 7561 | 7568 | 7575 | 7582 | 7589 | 7596 | 7603 | 7610 | 7617 | 7624 | 7631 | 7638 | 7645 | 7652 | 7659 | 7666 | 7673 | 7680 | 7687 | 7694 | 7701 | 7708 | 7715 | 7722 | 7729 | 7736 | 7743 | 7750 | 7757 | 7764 | 7771 | 7778 | 7785 | 7792 | 7799 | 7806 | 7813 | 7820 | 7827 | 7834 | 7841 | 7848 | 7855 | 7862 | 7869 | 7876 | 7883 | 7890 | 7897 | 7904 | 7911 | 7918 | 7925 | 7932 | 7939 | 7946 | 7953 | 7960 | 7967 | 7974 | 7981 | 7988 | 7995 | 8002 | 8009 | 8016 | 8023 | 8030 | 8037 | 8044 | 8051 | 8058 | 8065 | 8072 | 8079 | 8086 | 8093 | 8100 | 8107 | 8114 | 8121 | 8128 | 8135 | 8142 | 8149 | 8156 | 8163 | 8170 | 8177 | 8184 | 8191 | 8198 | 8205 | 8212 | 8219 | 8226 | 8233 | 8240 | 8247 | 8254 | 8261 | 8268 | 8275 | 8282 | 8289 | 8296 | 8303 | 8310 | 8317 | 8324 | 8331 | 8338 | 8345 | 8352 | 8359 | 8366 | 8373 | 8380 | 8387 | 8394 | 8401 | 8408 | 8415 | 8422 | 8429 | 8436 | 8443 | 8450 | 8457 | 8464 | 8471 | 8478 | 8485 | 8492 | 8499 | 8506 | 8513 | 8520 | 8527 | 8534 | 8541 | 8548 | 8555 | 8562 | 8569 | 8576 | 8583 | 8590 | 8597 | 8604 | 8611 | 8618 | 8625 | 8632 | 8639 | 8646 | 8653 | 8660 | 8667 | 8674 | 8681 | 8688 | 8695 | 8702 | 8709 | 8716 | 8723 | 8730 | 8737 | 8744 | 8751 | 8758 | 8765 | 8772 | 8779 | 8786 | 8793 | 8800 | 8807 | 8814 | 8821 | 8828 | 8835 | 8842 | 8849 | 8856 | 8863 | 8870 | 8877 | 8884 | 8891 | 8898 | 8905 | 8912 | 8919 | 8926 | 8933 | 8940 | 8947 | 8954 | 8961 | 8968 | 8975 | 8982 | 8989 | 8996 | 9003 | 9010 | 9017 | 9024 | 9031 | 9038 | 9045 | 9052 | 9059 | 9066 | 9073 | 9080 | 9087 | 9094 | 9101 | 9108 | 9115 | 9122 | 9129 | 9136 | 9143 | 9150 | 9157 |



## **Appendix I**

## **Laboratory Analysis Results (Soil)**



# Exova Jones Environmental

Registered Address : Exova (UK) Ltd, Lochend Industrial Estate, Newbridge, Midlothian, EH28 8PL

Unit 3 Deeside Point  
Zone 3  
Deeside Industrial Park  
Deeside  
CH5 2UA

Waterman Infrastructure & Environment Limited  
Pickfords Wharf  
Clink Street  
London  
SE1 9DG

Tel: +44 (0) 1244 833780  
Fax: +44 (0) 1244 833781



|                                |                      |
|--------------------------------|----------------------|
| <b>Attention :</b>             | Ben Greenfield       |
| <b>Date :</b>                  | 24th January, 2017   |
| <b>Your reference :</b>        | WIE 13235            |
| <b>Our reference :</b>         | Test Report 16/15353 |
| <b>Location :</b>              | Phoenix St           |
| <b>Date samples received :</b> |                      |
| <b>Status :</b>                | Final report         |
| <b>Issue :</b>                 | 1                    |

**Compiled By:**

A handwritten signature in black ink, appearing to read 'Paul Boden'.

**Paul Boden BSc  
Project Manager**

**Client Name:** Waterman Infrastructure & Environment Limited  
**Reference:** WIE 13235  
**Location:** Phoenix St  
**Contact:** Ben Greenfield  
**JE Job No.:** 16/15353

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

| J E Sample No.        | 1-3              | 4-6              | 10-12            | 28-30             | 31-33      | 52-54      | 55-56                | 61-63              | 67-69      | 73-75      | Please see attached notes for all abbreviations and acronyms |       |            |
|-----------------------|------------------|------------------|------------------|-------------------|------------|------------|----------------------|--------------------|------------|------------|--------------------------------------------------------------|-------|------------|
| Sample ID             | WS18             | WS18             | WS18             | TP04              | TP04       | BH12       | BH21                 | BH15               | TP10       | TP10       |                                                              |       |            |
| Depth                 | 0.15             | 0.5              | 1.4              | 0.50              | 1.00       | 0.80       | 0.00-0.50            | 0.00-0.50          | 0.50       | 1.50       |                                                              |       |            |
| COC No / misc         |                  |                  |                  |                   |            |            |                      |                    |            |            |                                                              |       |            |
| Containers            | V J T            | V J T            | V J T            | V J T             | V J T      | V J T      | V J                  | V J T              | V J T      | V J T      |                                                              |       |            |
| Sample Date           | 04/10/2016 12:00 | 04/10/2016 12:00 | 04/10/2016 12:00 | 11/10/2016        | 11/10/2016 | 12/10/2016 | 12/10/2016           | 12/10/2016         | 12/10/2016 | 12/10/2016 |                                                              |       |            |
| Sample Type           | Soil             | Soil             | Soil             | Soil              | Soil       | Soil       | Soil                 | Soil               | Soil       | Soil       |                                                              |       |            |
| Batch Number          | 1                | 1                | 1                | 2                 | 2          | 3          | 3                    | 3                  | 3          | 3          |                                                              |       |            |
| Date of Receipt       | 06/10/2016       | 06/10/2016       | 06/10/2016       | 13/10/2016        | 13/10/2016 | 14/10/2016 | 14/10/2016           | 14/10/2016         | 14/10/2016 | 14/10/2016 | LOD/LOR                                                      | Units | Method No. |
| Arsenic #             | -                | 13.4             | 10.4             | NDP               | 16.6       | 14.6       | NDP                  | NDP                | -          | 19.0       | <0.5                                                         | mg/kg | TM30/PM15  |
| Arsenic               | -                | -                | -                | 25.9              | -          | -          | 18.4                 | 14.9               | -          | -          | <0.5                                                         | mg/kg | TM30/PM62  |
| Barium #              | -                | 151              | 110              | NDP               | 306        | 133        | NDP                  | NDP                | -          | 418        | <1                                                           | mg/kg | TM30/PM15  |
| Barium                | -                | -                | -                | 709               | -          | -          | 5052 <sup>AB</sup>   | 3136 <sup>AB</sup> | -          | -          | <1                                                           | mg/kg | TM30/PM62  |
| Beryllium             | -                | 1.2              | 0.7              | NDP               | 1.0        | 1.0        | NDP                  | NDP                | -          | 1.3        | <0.5                                                         | mg/kg | TM30/PM15  |
| Beryllium             | -                | -                | -                | 1.5               | -          | -          | 1.5                  | 0.7                | -          | -          | <0.5                                                         | mg/kg | TM30/PM62  |
| Cadmium #             | -                | <0.1             | <0.1             | NDP               | 0.1        | 0.1        | NDP                  | NDP                | -          | <0.1       | <0.1                                                         | mg/kg | TM30/PM15  |
| Cadmium               | -                | -                | -                | 4.5               | -          | -          | 5.1                  | 1.1                | -          | -          | <0.1                                                         | mg/kg | TM30/PM62  |
| Chromium #            | -                | 96.6             | 34.2             | NDP               | 55.4       | 84.0       | NDP                  | NDP                | -          | 70.6       | <0.5                                                         | mg/kg | TM30/PM15  |
| Chromium              | -                | -                | -                | 28.5              | -          | -          | 214.5                | 40.8               | -          | -          | <0.5                                                         | mg/kg | TM30/PM62  |
| Cobalt #              | -                | 8.2              | 5.3              | NDP               | 8.3        | 6.6        | NDP                  | NDP                | -          | 8.6        | <0.5                                                         | mg/kg | TM30/PM15  |
| Cobalt                | -                | -                | -                | 13.1              | -          | -          | 17.9                 | 10.3               | -          | -          | <0.5                                                         | mg/kg | TM30/PM62  |
| Copper #              | -                | 53               | 73               | NDP               | 132        | 116        | NDP                  | NDP                | -          | 123        | <1                                                           | mg/kg | TM30/PM15  |
| Copper                | -                | -                | -                | 477 <sup>AB</sup> | -          | -          | 14983 <sup>AE</sup>  | 85                 | -          | -          | <1                                                           | mg/kg | TM30/PM62  |
| Iron                  | -                | -                | -                | -                 | -          | -          | -                    | -                  | -          | 24440      | <20                                                          | mg/kg | TM30/PM15  |
| Iron                  | -                | -                | -                | -                 | -          | -          | -                    | -                  | -          | -          | <20                                                          | mg/kg | TM30/PM62  |
| Lead #                | -                | 342              | 787              | NDP               | 747        | 557        | NDP                  | NDP                | -          | 2402       | <5                                                           | mg/kg | TM30/PM15  |
| Lead                  | -                | -                | -                | 1546              | -          | -          | 582                  | 2837               | -          | -          | <5                                                           | mg/kg | TM30/PM62  |
| Mercury #             | -                | 2.4              | 5.4              | NDP               | 2.0        | 2.1        | NDP                  | NDP                | -          | 0.9        | <0.1                                                         | mg/kg | TM30/PM15  |
| Mercury               | -                | -                | -                | 2.8               | -          | -          | 1.7                  | 0.4                | -          | -          | <0.1                                                         | mg/kg | TM30/PM62  |
| Molybdenum #          | -                | 6.8              | 2.7              | NDP               | 4.6        | 7.2        | NDP                  | NDP                | -          | 8.5        | <0.1                                                         | mg/kg | TM30/PM15  |
| Molybdenum            | -                | -                | -                | 3.2               | -          | -          | 4.8                  | 1.2                | -          | -          | <0.1                                                         | mg/kg | TM30/PM62  |
| Nickel #              | -                | 25.0             | 17.1             | NDP               | 24.0       | 19.5       | NDP                  | NDP                | -          | 28.4       | <0.7                                                         | mg/kg | TM30/PM15  |
| Nickel                | -                | -                | -                | 101.9             | -          | -          | 3759.5 <sup>AD</sup> | 19.4               | -          | -          | <0.7                                                         | mg/kg | TM30/PM62  |
| Selenium #            | -                | 1                | <1               | NDP               | <1         | <1         | NDP                  | NDP                | -          | <1         | <1                                                           | mg/kg | TM30/PM15  |
| Selenium              | -                | -                | -                | <1                | -          | -          | 5                    | <1                 | -          | -          | <1                                                           | mg/kg | TM30/PM62  |
| Sulphur               | -                | -                | -                | -                 | -          | -          | -                    | -                  | -          | -          | <0.01                                                        | %     | TM30/PM15  |
| Sulphur               | -                | -                | -                | -                 | -          | -          | -                    | -                  | -          | -          | <0.01                                                        | %     | TM30/PM62  |
| Total Sulphate #      | -                | 4707             | -                | NDP               | 814        | 2150       | NDP                  | NDP                | -          | 654        | <50                                                          | mg/kg | TM50/PM29  |
| Total Sulphate        | -                | -                | -                | 2039              | -          | -          | 2522                 | 1991               | -          | -          | <50                                                          | mg/kg | TM50/PM29  |
| Total Sulphate BRE    | -                | -                | -                | -                 | -          | -          | -                    | -                  | -          | -          | <0.01                                                        | %     | TM50/PM29  |
| Total Sulphate BRE    | -                | -                | -                | -                 | -          | -          | -                    | -                  | -          | -          | <0.01                                                        | %     | TM50/PM29  |
| Vanadium              | -                | 41               | 28               | NDP               | 46         | 35         | NDP                  | NDP                | -          | 70         | <1                                                           | mg/kg | TM30/PM15  |
| Vanadium              | -                | -                | -                | 64                | -          | -          | 594 <sup>AB</sup>    | 41                 | -          | -          | <1                                                           | mg/kg | TM30/PM62  |
| Water Soluble Boron # | -                | 2.1              | 0.7              | NDP               | 1.0        | 2.1        | NDP                  | NDP                | -          | 1.6        | <0.1                                                         | mg/kg | TM74/PM32  |
| Water Soluble Boron   | -                | -                | -                | 1.2               | -          | -          | 1.4                  | 0.7                | -          | -          | <0.1                                                         | mg/kg | TM74/PM61  |
| Zinc #                | -                | 81               | 84               | NDP               | 117        | 210        | NDP                  | NDP                | -          | 123        | <5                                                           | mg/kg | TM30/PM15  |
| Zinc                  | -                | -                | -                | 1545              | -          | -          | 2309                 | 1794               | -          | -          | <5                                                           | mg/kg | TM30/PM62  |
| Magnesium             | -                | -                | -                | -                 | -          | -          | -                    | -                  | -          | -          | <0.0001                                                      | g/l   | TM30/PM20  |
| Magnesium             | -                | -                | -                | -                 | -          | -          | -                    | -                  | -          | -          | <0.0001                                                      | g/l   | TM30/PM60  |

**Client Name:** Waterman Infrastructure & Environment Limited  
**Reference:** WIE 13235  
**Location:** Phoenix St  
**Contact:** Ben Greenfield  
**JE Job No.:** 16/15353

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

| J E Sample No.                    | 1-3              | 4-6              | 10-12            | 28-30               | 31-33      | 52-54      | 55-56               | 61-63      | 67-69      | 73-75      | Please see attached notes for all abbreviations and acronyms |       |            |
|-----------------------------------|------------------|------------------|------------------|---------------------|------------|------------|---------------------|------------|------------|------------|--------------------------------------------------------------|-------|------------|
| Sample ID                         | WS18             | WS18             | WS18             | TP04                | TP04       | BH12       | BH21                | BH15       | TP10       | TP10       |                                                              |       |            |
| Depth                             | 0.15             | 0.5              | 1.4              | 0.50                | 1.00       | 0.80       | 0.00-0.50           | 0.00-0.50  | 0.50       | 1.50       |                                                              |       |            |
| COC No / misc                     |                  |                  |                  |                     |            |            |                     |            |            |            |                                                              |       |            |
| Containers                        | V J T            | V J T            | V J T            | V J T               | V J T      | V J T      | V J                 | V J T      | V J T      | V J T      |                                                              |       |            |
| Sample Date                       | 04/10/2016 12:00 | 04/10/2016 12:00 | 04/10/2016 12:00 | 11/10/2016          | 11/10/2016 | 12/10/2016 | 12/10/2016          | 12/10/2016 | 12/10/2016 | 12/10/2016 |                                                              |       |            |
| Sample Type                       | Soil             | Soil             | Soil             | Soil                | Soil       | Soil       | Soil                | Soil       | Soil       | Soil       |                                                              |       |            |
| Batch Number                      | 1                | 1                | 1                | 2                   | 2          | 3          | 3                   | 3          | 3          | 3          |                                                              |       |            |
| Date of Receipt                   | 06/10/2016       | 06/10/2016       | 06/10/2016       | 13/10/2016          | 13/10/2016 | 14/10/2016 | 14/10/2016          | 14/10/2016 | 14/10/2016 | 14/10/2016 | LOD/LOR                                                      | Units | Method No. |
| PAH MS                            |                  |                  |                  |                     |            |            |                     |            |            |            |                                                              |       |            |
| Naphthalene #                     | -                | <0.04            | <0.04            | 0.36 <sub>AB</sub>  | 0.06       | 0.05       | 0.37 <sub>AB</sub>  | 0.20       | -          | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Acenaphthylene                    | -                | <0.03            | <0.03            | 0.47 <sub>AB</sub>  | <0.03      | <0.03      | 1.53 <sub>AB</sub>  | 0.14       | -          | <0.03      | <0.03                                                        | mg/kg | TM4/PM8    |
| Acenaphthene #                    | -                | <0.05            | <0.05            | <0.25 <sub>AB</sub> | <0.05      | <0.05      | 0.50 <sub>AB</sub>  | 0.38       | -          | <0.05      | <0.05                                                        | mg/kg | TM4/PM8    |
| Fluorene #                        | -                | <0.04            | <0.04            | <0.20 <sub>AB</sub> | <0.04      | <0.04      | 0.49 <sub>AB</sub>  | 0.25       | -          | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Phenanthrene #                    | -                | 0.08             | <0.03            | 1.15 <sub>AB</sub>  | 0.17       | 0.11       | 7.16 <sub>AB</sub>  | 6.44       | -          | <0.03      | <0.03                                                        | mg/kg | TM4/PM8    |
| Anthracene #                      | -                | <0.04            | <0.04            | 0.65 <sub>AB</sub>  | <0.04      | <0.04      | 2.88 <sub>AB</sub>  | 1.91       | -          | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Fluoranthene #                    | -                | 0.25             | 0.06             | 1.82 <sub>AB</sub>  | 0.19       | 0.16       | 10.68 <sub>AB</sub> | 9.16       | -          | <0.03      | <0.03                                                        | mg/kg | TM4/PM8    |
| Pyrene #                          | -                | 0.25             | 0.05             | 1.44 <sub>AB</sub>  | 0.15       | 0.13       | 9.03 <sub>AB</sub>  | 7.52       | -          | <0.03      | <0.03                                                        | mg/kg | TM4/PM8    |
| Benzo(a)anthracene #              | -                | 0.19             | <0.06            | 0.99 <sub>AB</sub>  | 0.11       | 0.19       | 5.13 <sub>AB</sub>  | 4.14       | -          | <0.06      | <0.06                                                        | mg/kg | TM4/PM8    |
| Chrysene #                        | -                | 0.17             | 0.05             | 1.13 <sub>AB</sub>  | 0.11       | 0.12       | 6.18 <sub>AB</sub>  | 4.32       | -          | <0.02      | <0.02                                                        | mg/kg | TM4/PM8    |
| Benzo(bk)fluoranthene #           | -                | 0.32             | <0.07            | 1.96 <sub>AB</sub>  | 0.21       | 0.24       | 13.82 <sub>AB</sub> | 6.80       | -          | <0.07      | <0.07                                                        | mg/kg | TM4/PM8    |
| Benzo(a)pyrene #                  | -                | 0.19             | <0.04            | 1.10 <sub>AB</sub>  | 0.13       | 0.13       | 9.49 <sub>AB</sub>  | 4.06       | -          | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Indeno(123cd)pyrene #             | -                | 0.15             | <0.04            | 1.39 <sub>AB</sub>  | 0.12       | 0.10       | 8.76 <sub>AB</sub>  | 2.72       | -          | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Dibenzo(ah)anthracene #           | -                | <0.04            | <0.04            | <0.20 <sub>AB</sub> | <0.04      | <0.04      | 0.99 <sub>AB</sub>  | 0.32       | -          | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Benzo(ghi)perylene #              | -                | 0.12             | <0.04            | 2.22 <sub>AB</sub>  | 0.12       | 0.10       | 7.64 <sub>AB</sub>  | 2.43       | -          | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Coronene                          | -                | <0.04            | <0.04            | 0.83 <sub>AB</sub>  | <0.04      | <0.04      | 1.18 <sub>AB</sub>  | 0.45       | -          | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| PAH 17 Total                      | -                | 1.72             | <0.64            | 15.51 <sub>AB</sub> | 1.37       | 1.33       | 85.83 <sub>AB</sub> | 51.24      | -          | <0.64      | <0.64                                                        | mg/kg | TM4/PM8    |
| Benzo(b)fluoranthene              | -                | 0.23             | <0.05            | 1.41 <sub>AB</sub>  | 0.15       | 0.17       | 9.95 <sub>AB</sub>  | 4.90       | -          | <0.05      | <0.05                                                        | mg/kg | TM4/PM8    |
| Benzo(k)fluoranthene              | -                | 0.09             | <0.02            | 0.55 <sub>AB</sub>  | 0.06       | 0.07       | 3.87 <sub>AB</sub>  | 1.90       | -          | <0.02      | <0.02                                                        | mg/kg | TM4/PM8    |
| Benzo(a)pyrene fraction of C6-C40 | -                | <0.01            | -                | -                   | <0.01      | <0.01      | 0.48 <sub>AB</sub>  | 0.75       | -          | <0.01      | <0.01                                                        | %     | TM4/PM8    |
| Benzo(a)pyrene fraction of C6-C40 | -                | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | -                                                            | %     | TM4/PM8    |
| PAH Surrogate % Recovery          | -                | 118              | 118              | 112 <sub>AB</sub>   | 106        | 123        | 128 <sub>AB</sub>   | 113        | -          | 99         | <0                                                           | %     | TM4/PM8    |
| Naphthalene                       | 0.06             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Acenaphthylene                    | 0.03             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Acenaphthene                      | <0.05            | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.05                                                        | mg/kg | TM4/PM6    |
| Fluorene                          | 0.05             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Phenanthrene                      | 0.59             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Anthracene                        | 0.17             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Fluoranthene                      | 0.78             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Pyrene                            | 0.57             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Benzo(a)anthracene                | 0.42             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.06                                                        | mg/kg | TM4/PM6    |
| Chrysene                          | 0.30             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.02                                                        | mg/kg | TM4/PM6    |
| Benzo(bk)fluoranthene             | 0.41             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.07                                                        | mg/kg | TM4/PM6    |
| Benzo(a)pyrene                    | 0.19             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Indeno(123cd)pyrene               | 0.16             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Dibenzo(ah)anthracene             | <0.04            | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Benzo(ghi)perylene                | 0.16             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| PAH 16 Total                      | 3.9              | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.6                                                         | mg/kg | TM4/PM6    |
| Benzo(b)fluoranthene              | 0.30             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.05                                                        | mg/kg | TM4/PM6    |
| Benzo(k)fluoranthene              | 0.11             | -                | -                | -                   | -          | -          | -                   | -          | -          | -          | <0.02                                                        | mg/kg | TM4/PM6    |
| Methyl Tertiary Butyl Ether #     | -                | <0.002           | <0.002           | <0.002              | -          | <0.002     | -                   | -          | -          | -          | <0.002                                                       | mg/kg | TM15/PM10  |

**Client Name:** Waterman Infrastructure & Environment Limited  
**Reference:** WIE 13235  
**Location:** Phoenix St  
**Contact:** Ben Greenfield  
**JE Job No.:** 16/15353

**Report :** Solid

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

| J E Sample No.                          | 1-3              | 4-6              | 10-12            | 28-30              | 31-33      | 52-54      | 55-56      | 61-63      | 67-69      | 73-75      | Please see attached notes for all abbreviations and acronyms |       |               |
|-----------------------------------------|------------------|------------------|------------------|--------------------|------------|------------|------------|------------|------------|------------|--------------------------------------------------------------|-------|---------------|
| Sample ID                               | WS18             | WS18             | WS18             | TP04               | TP04       | BH12       | BH21       | BH15       | TP10       | TP10       |                                                              |       |               |
| Depth                                   | 0.15             | 0.5              | 1.4              | 0.50               | 1.00       | 0.80       | 0.00-0.50  | 0.00-0.50  | 0.50       | 1.50       |                                                              |       |               |
| COC No / misc                           |                  |                  |                  |                    |            |            |            |            |            |            |                                                              |       |               |
| Containers                              | V J T            | V J T            | V J T            | V J T              | V J T      | V J T      | V J        | V J T      | V J T      | V J T      |                                                              |       |               |
| Sample Date                             | 04/10/2016 12:00 | 04/10/2016 12:00 | 04/10/2016 12:00 | 11/10/2016         | 11/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016 |                                                              |       |               |
| Sample Type                             | Soil             | Soil             | Soil             | Soil               | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       |                                                              |       |               |
| Batch Number                            | 1                | 1                | 1                | 2                  | 2          | 3          | 3          | 3          | 3          | 3          |                                                              |       |               |
| Date of Receipt                         | 06/10/2016       | 06/10/2016       | 06/10/2016       | 13/10/2016         | 13/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | LOD/LOR                                                      | Units | Method No.    |
| Benzene #                               | -                | <0.003           | <0.003           | <0.003             | -          | 0.005      | -          | -          | -          | -          | <0.003                                                       | mg/kg | TM15/PM10     |
| Toluene #                               | -                | 0.004            | <0.003           | <0.003             | -          | <0.003     | -          | -          | -          | -          | <0.003                                                       | mg/kg | TM15/PM10     |
| Ethylbenzene #                          | -                | <0.003           | <0.003           | <0.003             | -          | <0.003     | -          | -          | -          | -          | <0.003                                                       | mg/kg | TM15/PM10     |
| p/m-Xylene #                            | -                | <0.005           | <0.005           | <0.005             | -          | <0.005     | -          | -          | -          | -          | <0.005                                                       | mg/kg | TM15/PM10     |
| o-Xylene #                              | -                | <0.003           | <0.003           | <0.003             | -          | <0.003     | -          | -          | -          | -          | <0.003                                                       | mg/kg | TM15/PM10     |
| Xylenes (sum of isomers) #              | -                | -                | -                | -                  | -          | -          | -          | -          | -          | -          | <0.008                                                       | mg/kg | TM15/PM10     |
| Surrogate Recovery Toluene D8           | -                | 93               | 93               | 72                 | -          | 101        | -          | -          | -          | -          | <0                                                           | %     | TM15/PM10     |
| Surrogate Recovery 4-Bromofluorobenzene | -                | 64               | 74               | 66                 | -          | 82         | -          | -          | -          | -          | <0                                                           | %     | TM15/PM10     |
| Interpretation - Gasoline               | -                | N                | -                | -                  | N          | N          | N          | N          | -          | N          |                                                              | None  | TM5/PM8       |
| Interpretation - Diesel                 | -                | N                | -                | -                  | N          | N          | N          | N          | -          | N          |                                                              | None  | TM5/PM8       |
| Mineral Oil (C10-C40)                   | -                | -                | -                | -                  | -          | <30        | -          | -          | -          | -          | <30                                                          | mg/kg | TM5/PM16      |
| EPH (C10-C40) with clean up             | -                | <30              | -                | -                  | <30        | <30        | 1984       | 542        | -          | <30        | <30                                                          | mg/kg | TM5/PM16      |
| TPH (C6-C40)                            | -                | <30              | -                | -                  | <30        | <30        | 1984       | 542        | -          | <30        | <30                                                          | mg/kg | TM5/PM16/PM15 |
| TPH CWG                                 |                  |                  |                  |                    |            |            |            |            |            |            |                                                              |       |               |
| <b>Aliphatics</b>                       |                  |                  |                  |                    |            |            |            |            |            |            |                                                              |       |               |
| >C5-C6 #                                | -                | -                | <0.1             | <1.0 <sub>AC</sub> | -          | -          | -          | -          | -          | -          | <0.1                                                         | mg/kg | TM36/PM12     |
| >C6-C8 #                                | -                | -                | <0.1             | <1.0 <sub>AC</sub> | -          | -          | -          | -          | -          | -          | <0.1                                                         | mg/kg | TM36/PM12     |
| >C8-C10                                 | -                | -                | <0.1             | <1.0 <sub>AC</sub> | -          | -          | -          | -          | -          | -          | <0.1                                                         | mg/kg | TM36/PM12     |
| >C10-C12 #                              | -                | -                | <0.2             | <0.2               | -          | -          | -          | -          | -          | -          | <0.2                                                         | mg/kg | TM5/PM16      |
| >C12-C16 #                              | -                | -                | <4               | <4                 | -          | -          | -          | -          | -          | -          | <4                                                           | mg/kg | TM5/PM16      |
| >C16-C21 #                              | -                | -                | <7               | 68                 | -          | -          | -          | -          | -          | -          | <7                                                           | mg/kg | TM5/PM16      |
| >C21-C35 #                              | -                | -                | <7               | 1337               | -          | -          | -          | -          | -          | -          | <7                                                           | mg/kg | TM5/PM16      |
| >C35-C44                                | -                | -                | <7               | 630                | -          | -          | -          | -          | -          | -          | <7                                                           | mg/kg | TM5/PM16      |
| Total aliphatics C5-44                  | -                | -                | <26              | 2035               | -          | -          | -          | -          | -          | -          | <26                                                          | mg/kg | TM5/PM16      |

**Client Name:** Waterman Infrastructure & Environment Limited  
**Reference:** WIE 13235  
**Location:** Phoenix St  
**Contact:** Ben Greenfield  
**JE Job No.:** 16/15353

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

| J E Sample No.                        | 1-3              | 4-6              | 10-12            | 28-30              | 31-33              | 52-54      | 55-56              | 61-63      | 67-69      | 73-75              | Please see attached notes for all abbreviations and acronyms |       |            |
|---------------------------------------|------------------|------------------|------------------|--------------------|--------------------|------------|--------------------|------------|------------|--------------------|--------------------------------------------------------------|-------|------------|
| Sample ID                             | WS18             | WS18             | WS18             | TP04               | TP04               | BH12       | BH21               | BH15       | TP10       | TP10               |                                                              |       |            |
| Depth                                 | 0.15             | 0.5              | 1.4              | 0.50               | 1.00               | 0.80       | 0.00-0.50          | 0.00-0.50  | 0.50       | 1.50               |                                                              |       |            |
| COC No / misc                         |                  |                  |                  |                    |                    |            |                    |            |            |                    |                                                              |       |            |
| Containers                            | V J T            | V J T            | V J T            | V J T              | V J T              | V J T      | V J                | V J T      | V J T      | V J T              |                                                              |       |            |
| Sample Date                           | 04/10/2016 12:00 | 04/10/2016 12:00 | 04/10/2016 12:00 | 11/10/2016         | 11/10/2016         | 12/10/2016 | 12/10/2016         | 12/10/2016 | 12/10/2016 | 12/10/2016         |                                                              |       |            |
| Sample Type                           | Soil             | Soil             | Soil             | Soil               | Soil               | Soil       | Soil               | Soil       | Soil       | Soil               |                                                              |       |            |
| Batch Number                          | 1                | 1                | 1                | 2                  | 2                  | 3          | 3                  | 3          | 3          | 3                  |                                                              |       |            |
| Date of Receipt                       | 06/10/2016       | 06/10/2016       | 06/10/2016       | 13/10/2016         | 13/10/2016         | 14/10/2016 | 14/10/2016         | 14/10/2016 | 14/10/2016 | 14/10/2016         | LOD/LOR                                                      | Units | Method No. |
| TPH CWG                               |                  |                  |                  |                    |                    |            |                    |            |            |                    |                                                              |       |            |
| <b>Aromatics</b>                      |                  |                  |                  |                    |                    |            |                    |            |            |                    |                                                              |       |            |
| >C5-EC7                               | -                | -                | <0.1             | <1.0 <sub>AC</sub> | -                  | -          | -                  | -          | -          | -                  | <0.1                                                         | mg/kg | TM36/PM12  |
| >C5-EC7 #                             | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.1                                                         | mg/kg | TM36/PM12  |
| >EC7-EC8                              | -                | -                | <0.1             | <1.0 <sub>AC</sub> | -                  | -          | -                  | -          | -          | -                  | <0.1                                                         | mg/kg | TM36/PM12  |
| >EC7-EC8 #                            | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.1                                                         | mg/kg | TM36/PM12  |
| >EC8-EC10 #                           | -                | -                | <0.1             | <1.0 <sub>AC</sub> | -                  | -          | -                  | -          | -          | -                  | <0.1                                                         | mg/kg | TM36/PM12  |
| >EC10-EC12                            | -                | -                | <0.2             | <0.2               | -                  | -          | -                  | -          | -          | -                  | <0.2                                                         | mg/kg | TM5/PM16   |
| >EC10-EC12 #                          | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.2                                                         | mg/kg | TM5/PM16   |
| >EC12-EC16                            | -                | -                | <4               | <4                 | -                  | -          | -                  | -          | -          | -                  | <4                                                           | mg/kg | TM5/PM16   |
| >EC12-EC16 #                          | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <4                                                           | mg/kg | TM5/PM16   |
| >EC16-EC21                            | -                | -                | <7               | 47                 | -                  | -          | -                  | -          | -          | -                  | <7                                                           | mg/kg | TM5/PM16   |
| >EC16-EC21 #                          | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <7                                                           | mg/kg | TM5/PM16   |
| >EC21-EC35                            | -                | -                | <7               | 955                | -                  | -          | -                  | -          | -          | -                  | <7                                                           | mg/kg | TM5/PM16   |
| >EC21-EC35 #                          | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <7                                                           | mg/kg | TM5/PM16   |
| >EC35-EC44                            | -                | -                | <7               | 772                | -                  | -          | -                  | -          | -          | -                  | <7                                                           | mg/kg | TM5/PM16   |
| Total aromatics C5-44                 | -                | -                | <26              | 1774               | -                  | -          | -                  | -          | -          | -                  | <26                                                          | mg/kg | TM5/PM16   |
| Total aliphatics and aromatics(C5-44) | -                | -                | <52              | 3809               | -                  | -          | -                  | -          | -          | -                  | <52                                                          | mg/kg | TM5/PM16   |
| GRO (>C4-C8) #                        | -                | <0.1             | -                | -                  | <0.1 <sup>SV</sup> | <0.1       | <1.0 <sub>AC</sub> | <0.1       | -          | <1.0 <sub>AC</sub> | <0.1                                                         | mg/kg | TM36/PM12  |
| GRO (>C8-C12) #                       | -                | <0.1             | -                | -                  | <0.1 <sup>SV</sup> | <0.1       | <1.0 <sub>AC</sub> | <0.1       | -          | <1.0 <sub>AC</sub> | <0.1                                                         | mg/kg | TM36/PM12  |
| GRO (>C4-C12) #                       | -                | <0.1             | -                | -                  | <0.1 <sup>SV</sup> | <0.1       | <1.0 <sub>AC</sub> | <0.1       | -          | <1.0 <sub>AC</sub> | <0.1                                                         | mg/kg | TM36/PM12  |
| GRO (C6-C10)                          | -                | <0.1             | -                | -                  | <0.1 <sup>SV</sup> | <0.1       | <1.0 <sub>AC</sub> | <0.1       | -          | <1.0 <sub>AC</sub> | <0.1                                                         | mg/kg | TM36/PM12  |
| MTBE #                                | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM31/PM12  |
| Benzene #                             | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM31/PM12  |
| Toluene #                             | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM31/PM12  |
| Ethylbenzene #                        | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM31/PM12  |
| m/p-Xylene #                          | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM31/PM12  |
| o-Xylene #                            | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM31/PM12  |
| PCB 28 #                              | -                | -                | -                | -                  | -                  | <0.005     | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 52 #                              | -                | -                | -                | -                  | -                  | <0.005     | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 101 #                             | -                | -                | -                | -                  | -                  | <0.005     | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 118 #                             | -                | -                | -                | -                  | -                  | <0.005     | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 138 #                             | -                | -                | -                | -                  | -                  | <0.005     | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 153 #                             | -                | -                | -                | -                  | -                  | <0.005     | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 180 #                             | -                | -                | -                | -                  | -                  | <0.005     | -                  | -          | -          | -                  | <0.005                                                       | mg/kg | TM17/PM8   |
| Total 7 PCBs #                        | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.035                                                       | mg/kg | TM17/PM8   |
| SEM                                   | -                | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <110                                                         | mg/kg | TM7/PM6    |
| SEM #                                 | 17433            | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <110                                                         | mg/kg | TM7/PM6    |
| Saturates (Aliphatics)                | 5.04             | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.01                                                        | %     | TM13/PM6   |
| Aromatics                             | 23.10            | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.01                                                        | %     | TM13/PM6   |
| Resins (Heterocyclics)                | 58.32            | -                | -                | -                  | -                  | -          | -                  | -          | -          | -                  | <0.01                                                        | %     | TM13/PM6   |

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**Contact:** Ben Greenfield  
**JE Job No.:** 16/15353

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

| J E Sample No.                            | 1-3              | 4-6              | 10-12            | 28-30      | 31-33      | 52-54      | 55-56      | 61-63      | 67-69      | 73-75      | Please see attached notes for all abbreviations and acronyms |          |            |
|-------------------------------------------|------------------|------------------|------------------|------------|------------|------------|------------|------------|------------|------------|--------------------------------------------------------------|----------|------------|
| Sample ID                                 | WS18             | WS18             | WS18             | TP04       | TP04       | BH12       | BH21       | BH15       | TP10       | TP10       |                                                              |          |            |
| Depth                                     | 0.15             | 0.5              | 1.4              | 0.50       | 1.00       | 0.80       | 0.00-0.50  | 0.00-0.50  | 0.50       | 1.50       |                                                              |          |            |
| COC No / misc                             |                  |                  |                  |            |            |            |            |            |            |            |                                                              |          |            |
| Containers                                | V J T            | V J T            | V J T            | V J T      | V J T      | V J T      | V J        | V J T      | V J T      | V J T      |                                                              |          |            |
| Sample Date                               | 04/10/2016 12:00 | 04/10/2016 12:00 | 04/10/2016 12:00 | 11/10/2016 | 11/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016 |                                                              |          |            |
| Sample Type                               | Soil             | Soil             | Soil             | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       |                                                              |          |            |
| Batch Number                              | 1                | 1                | 1                | 2          | 2          | 3          | 3          | 3          | 3          | 3          |                                                              |          |            |
| Date of Receipt                           | 06/10/2016       | 06/10/2016       | 06/10/2016       | 13/10/2016 | 13/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | LOD/LOR                                                      | Units    | Method No. |
| Asphaltenes                               | 13.54            | -                | -                | -          | -          | -          | -          | -          | -          | -          | <0.01                                                        | %        | TM13/PM6   |
| Natural Moisture Content                  | 7.8              | 11.8             | 18.3             | NDP        | 21.1       | 17.9       | NDP        | NDP        | -          | 24.8       | <0.1                                                         | %        | PM4/PM0    |
| Natural Moisture Content                  | -                | -                | -                | 28.3       | -          | -          | 14.2       | 18.4       | -          | -          | <0.1                                                         | %        | PM4/PM0    |
| Triterpanes 191m/z                        | Present          | -                | -                | -          | -          | -          | -          | -          | -          | -          |                                                              | None     | TM16/PM6   |
| Triaromatic Steranes 231m/z               | Present          | -                | -                | -          | -          | -          | -          | -          | -          | -          |                                                              | None     | TM16/PM6   |
| Ammoniacal Nitrogen as NH4                | -                | -                | -                | -          | -          | -          | -          | -          | -          | -          | <0.6                                                         | mg/kg    | TM38/PM20  |
| Chloride <sup>#</sup>                     | -                | 334              | -                | NDP        | 4          | 10         | NDP        | NDP        | -          | 6          | <2                                                           | mg/kg    | TM38/PM20  |
| Chloride (2:1 Ext BRE) <sup>#</sup>       | -                | -                | -                | -          | -          | -          | -          | -          | -          | -          | <0.002                                                       | g/l      | TM38/PM20  |
| Chloride (2:1 Ext BRE)                    | -                | -                | -                | -          | -          | -          | -          | -          | -          | -          | <0.002                                                       | g/l      | TM38/PM60  |
| Chloride                                  | -                | -                | -                | 4          | -          | -          | 14         | 5          | -          | -          | <2                                                           | mg/kg    | TM38/PM60  |
| Hexavalent Chromium <sup>#</sup>          | -                | <0.3             | <0.3             | 1.4        | <0.3       | <0.3       | <0.3       | <0.3       | -          | <0.3       | <0.3                                                         | mg/kg    | TM38/PM20  |
| Nitrate as NO3 (2:1 Ext BRE) <sup>#</sup> | -                | -                | -                | -          | -          | -          | -          | -          | -          | -          | <0.0025                                                      | g/l      | TM38/PM20  |
| Nitrate as NO3 (2:1 Ext BRE)              | -                | -                | -                | -          | -          | -          | -          | -          | -          | -          | <0.0025                                                      | g/l      | TM38/PM60  |
| Sulphate as SO4 (2:1 Ext) <sup>#</sup>    | -                | -                | -                | -          | -          | -          | -          | -          | -          | -          | <0.0015                                                      | g/l      | TM38/PM20  |
| Sulphate as SO4 (2:1 Ext)                 | -                | -                | -                | -          | -          | -          | -          | -          | -          | -          | <0.0015                                                      | g/l      | TM38/PM60  |
| Free Cyanide                              | -                | <0.5             | <0.5             | <0.5       | <0.5       | <0.5       | <0.5       | <0.5       | -          | <0.5       | <0.5                                                         | mg/kg    | TM89/PM45  |
| Total Cyanide <sup>#</sup>                | -                | <0.5             | <0.5             | 0.9        | <0.5       | 1.1        | 0.7        | <0.5       | -          | <0.5       | <0.5                                                         | mg/kg    | TM89/PM45  |
| Complex Cyanide                           | -                | <0.5             | <0.5             | 0.9        | <0.5       | 1.1        | 0.7        | <0.5       | -          | <0.5       | <0.5                                                         | mg/kg    | TM89/PM45  |
| Total Organic Carbon <sup>#</sup>         | -                | -                | -                | -          | -          | 1.62       | -          | -          | -          | -          | <0.02                                                        | %        | TM21/PM24  |
| Total Organic Carbon                      | -                | -                | -                | -          | -          | -          | -          | -          | -          | -          | <0.02                                                        | %        | TM21/PM89  |
| Organic Matter                            | -                | 3.3              | 3.1              | NDP        | 10.8       | 2.8        | NDP        | NDP        | NDP        | 16.5       | <0.2                                                         | %        | TM21/PM24  |
| Organic Matter                            | -                | -                | -                | 15.2       | -          | -          | 13.9       | 2.3        | 0.9        | -          | <0.2                                                         | %        | TM21/PM89  |
| Thiocyanate                               | -                | <0.6             | <0.6             | <0.6       | <0.6       | <0.6       | <0.6       | <0.6       | -          | <0.6       | <0.6                                                         | mg/kg    | TM107/PM45 |
| ANC at pH4                                | -                | -                | -                | -          | -          | 2.38       | -          | -          | -          | -          | <0.03                                                        | mol/kg   | TM77/PM0   |
| ANC at pH7                                | -                | -                | -                | -          | -          | 0.13       | -          | -          | -          | -          | <0.03                                                        | mol/kg   | TM77/PM0   |
| Coal Tar                                  | <0.1             | -                | -                | -          | -          | -          | -          | -          | -          | -          | <0.1                                                         | %        | TM16/PM6   |
| Loss on Ignition <sup>#</sup>             | -                | -                | -                | -          | -          | 4.9        | -          | -          | -          | -          | <1.0                                                         | %        | TM22/PM0   |
| Loss on Ignition                          | -                | -                | -                | -          | -          | -          | -          | -          | -          | -          | <1.0                                                         | %        | TM22/PM0   |
| pH <sup>#</sup>                           | -                | 8.93             | -                | 8.04       | 8.30       | 9.34       | 8.21       | 8.62       | -          | 7.88       | <0.01                                                        | pH units | TM73/PM11  |

Please see attached notes for all abbreviations and acronyms

**Client Name:** Waterman Infrastructure & Environment Limited  
**Reference:** WIE 13235  
**Location:** Phoenix St  
**Contact:** Ben Greenfield  
**JE Job No.:** 16/15353

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

| J E Sample No.                    | 79-81      | 85-87      | 88-90      | 97-99      | 100-102              | 115-117    | 124-126    | 130-132    | 142-144    | 154-156    | Please see attached notes for all abbreviations and acronyms |       |            |
|-----------------------------------|------------|------------|------------|------------|----------------------|------------|------------|------------|------------|------------|--------------------------------------------------------------|-------|------------|
| Sample ID                         | TP10       | TP10       | TP7        | TP7        | TP8                  | TP8        | WS16       | WS16       | TP5        | TP5        |                                                              |       |            |
| Depth                             | 2.50       | 3.20       | 0.50       | 2.00       | 0.40                 | 3.00       | 1.70       | 2.80       | 0.50       | 2.50       |                                                              |       |            |
| COC No / misc                     |            |            |            |            |                      |            |            |            |            |            |                                                              |       |            |
| Containers                        | V J T      | V J T      | V J T      | V J T      | V J T                | V J T      | V J T      | V J T      | V J T      | V J T      |                                                              |       |            |
| Sample Date                       | 12/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016           | 12/10/2016 | 12/10/2016 | 12/10/2016 | 13/10/2016 | 13/10/2016 |                                                              |       |            |
| Sample Type                       | Soil       | Soil       | Soil       | Soil       | Soil                 | Soil       | Soil       | Soil       | Soil       | Soil       |                                                              |       |            |
| Batch Number                      | 3          | 3          | 3          | 3          | 3                    | 3          | 3          | 3          | 4          | 4          |                                                              |       |            |
| Date of Receipt                   | 14/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016           | 14/10/2016 | 14/10/2016 | 14/10/2016 | 15/10/2016 | 15/10/2016 | LOD/LOR                                                      | Units | Method No. |
| PAH MS                            |            |            |            |            |                      |            |            |            |            |            |                                                              |       |            |
| Naphthalene #                     | <0.04      | <0.04      | 0.12       | <0.04      | 0.74 <sub>AC</sub>   | <0.04      | <0.04      | <0.04      | 0.11       | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Acenaphthylene                    | <0.03      | <0.03      | 0.44       | <0.03      | 9.54 <sub>AC</sub>   | <0.03      | <0.03      | <0.03      | 0.11       | <0.03      | <0.03                                                        | mg/kg | TM4/PM8    |
| Acenaphthene #                    | <0.05      | <0.05      | 0.11       | <0.05      | 1.05 <sub>AC</sub>   | <0.05      | <0.05      | <0.05      | <0.05      | <0.05      | <0.05                                                        | mg/kg | TM4/PM8    |
| Fluorene #                        | <0.04      | <0.04      | 0.07       | <0.04      | 1.35 <sub>AC</sub>   | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Phenanthrene #                    | 0.17       | <0.03      | 2.35       | <0.03      | 21.90 <sub>AC</sub>  | 0.05       | 0.04       | <0.03      | 0.57       | 0.12       | <0.03                                                        | mg/kg | TM4/PM8    |
| Anthracene #                      | <0.04      | <0.04      | 0.97       | <0.04      | 14.77 <sub>AC</sub>  | <0.04      | <0.04      | <0.04      | 0.15       | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Fluoranthene #                    | 0.07       | <0.03      | 5.84       | 0.04       | 94.97 <sub>AC</sub>  | 0.10       | <0.03      | 0.06       | 1.13       | 0.07       | <0.03                                                        | mg/kg | TM4/PM8    |
| Pyrene #                          | 0.06       | <0.03      | 5.35       | <0.03      | 93.35 <sub>AC</sub>  | 0.10       | <0.03      | 0.06       | 1.02       | 0.06       | <0.03                                                        | mg/kg | TM4/PM8    |
| Benzo(a)anthracene #              | <0.06      | <0.06      | 3.06       | <0.06      | 65.77 <sub>AC</sub>  | 0.11       | <0.06      | <0.06      | 0.68       | <0.06      | <0.06                                                        | mg/kg | TM4/PM8    |
| Chrysene #                        | 0.07       | <0.02      | 3.46       | <0.02      | 62.66 <sub>AC</sub>  | 0.07       | 0.02       | 0.03       | 0.76       | 0.06       | <0.02                                                        | mg/kg | TM4/PM8    |
| Benzo(bk)fluoranthene #           | <0.07      | <0.07      | 6.16       | <0.07      | 133.53 <sub>AC</sub> | 0.11       | <0.07      | <0.07      | 1.44       | <0.07      | <0.07                                                        | mg/kg | TM4/PM8    |
| Benzo(a)pyrene #                  | <0.04      | <0.04      | 3.40       | <0.04      | 82.51 <sub>AC</sub>  | 0.08       | <0.04      | <0.04      | 0.84       | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Indeno(123cd)pyrene #             | <0.04      | <0.04      | 2.22       | <0.04      | 51.51 <sub>AC</sub>  | <0.04      | <0.04      | <0.04      | 0.59       | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Dibenzo(ah)anthracene #           | <0.04      | <0.04      | 0.32       | <0.04      | 5.49 <sub>AC</sub>   | <0.04      | <0.04      | <0.04      | 0.08       | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Benzo(ghi)perylene #              | <0.04      | <0.04      | 1.82       | <0.04      | 38.74 <sub>AC</sub>  | <0.04      | <0.04      | <0.04      | 0.57       | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Coronene                          | <0.04      | <0.04      | 0.28       | <0.04      | 3.92 <sub>AC</sub>   | <0.04      | <0.04      | <0.04      | 0.09       | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| PAH 17 Total                      | <0.64      | <0.64      | 35.97      | <0.64      | 681.80 <sub>AC</sub> | <0.64      | <0.64      | <0.64      | 8.14       | <0.64      | <0.64                                                        | mg/kg | TM4/PM8    |
| Benzo(b)fluoranthene              | <0.05      | <0.05      | 4.44       | <0.05      | 96.14 <sub>AC</sub>  | 0.08       | <0.05      | <0.05      | 1.04       | <0.05      | <0.05                                                        | mg/kg | TM4/PM8    |
| Benzo(k)fluoranthene              | <0.02      | <0.02      | 1.72       | <0.02      | 37.39 <sub>AC</sub>  | 0.03       | <0.02      | <0.02      | 0.40       | <0.02      | <0.02                                                        | mg/kg | TM4/PM8    |
| Benzo(a)pyrene fraction of C6-C40 | <0.01      | <0.01      | 0.09       | <0.01      | 3.52 <sub>AC</sub>   | 0.05       | <0.01      | <0.01      | 0.20       | -          | <0.01                                                        | %     | TM4/PM8    |
| Benzo(a)pyrene fraction of C6-C40 | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | -                                                            | %     | TM4/PM8    |
| PAH Surrogate % Recovery          | 101        | 110        | 112        | 113        | 119 <sub>AC</sub>    | 102        | 112        | 104        | 114        | 98         | <0                                                           | %     | TM4/PM8    |
| Naphthalene                       | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Acenaphthylene                    | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Acenaphthene                      | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.05                                                        | mg/kg | TM4/PM6    |
| Fluorene                          | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Phenanthrene                      | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Anthracene                        | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Fluoranthene                      | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Pyrene                            | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Benzo(a)anthracene                | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.06                                                        | mg/kg | TM4/PM6    |
| Chrysene                          | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.02                                                        | mg/kg | TM4/PM6    |
| Benzo(bk)fluoranthene             | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.07                                                        | mg/kg | TM4/PM6    |
| Benzo(a)pyrene                    | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Indeno(123cd)pyrene               | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Dibenzo(ah)anthracene             | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Benzo(ghi)perylene                | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| PAH 16 Total                      | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.6                                                         | mg/kg | TM4/PM6    |
| Benzo(b)fluoranthene              | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.05                                                        | mg/kg | TM4/PM6    |
| Benzo(k)fluoranthene              | -          | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.02                                                        | mg/kg | TM4/PM6    |
| Methyl Tertiary Butyl Ether #     | <0.002     | -          | -          | -          | -                    | -          | -          | -          | -          | -          | <0.002                                                       | mg/kg | TM15/PM10  |

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**Reference:** WIE 13235  
**Location:** Phoenix St  
**Contact:** Ben Greenfield  
**JE Job No.:** 16/15353

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

| J E Sample No.                          | 79-81      | 85-87      | 88-90      | 97-99      | 100-102    | 115-117    | 124-126    | 130-132    | 142-144    | 154-156            | Please see attached notes for all abbreviations and acronyms |       |               |
|-----------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------|--------------------------------------------------------------|-------|---------------|
| Sample ID                               | TP10       | TP10       | TP7        | TP7        | TP8        | TP8        | WS16       | WS16       | TP5        | TP5                |                                                              |       |               |
| Depth                                   | 2.50       | 3.20       | 0.50       | 2.00       | 0.40       | 3.00       | 1.70       | 2.80       | 0.50       | 2.50               |                                                              |       |               |
| COC No / misc                           |            |            |            |            |            |            |            |            |            |                    |                                                              |       |               |
| Containers                              | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T              |                                                              |       |               |
| Sample Date                             | 12/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016 | 12/10/2016 | 13/10/2016 | 13/10/2016         |                                                              |       |               |
| Sample Type                             | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil               |                                                              |       |               |
| Batch Number                            | 3          | 3          | 3          | 3          | 3          | 3          | 3          | 3          | 4          | 4                  |                                                              |       |               |
| Date of Receipt                         | 14/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | 15/10/2016 | 15/10/2016         | LOD/LOR                                                      | Units | Method No.    |
| Benzene #                               | <0.003     | -          | -          | -          | -          | -          | -          | -          | -          | -                  | <0.003                                                       | mg/kg | TM15/PM10     |
| Toluene #                               | <0.003     | -          | -          | -          | -          | -          | -          | -          | -          | -                  | <0.003                                                       | mg/kg | TM15/PM10     |
| Ethylbenzene #                          | <0.003     | -          | -          | -          | -          | -          | -          | -          | -          | -                  | <0.003                                                       | mg/kg | TM15/PM10     |
| p/m-Xylene #                            | <0.005     | -          | -          | -          | -          | -          | -          | -          | -          | -                  | <0.005                                                       | mg/kg | TM15/PM10     |
| o-Xylene #                              | <0.003     | -          | -          | -          | -          | -          | -          | -          | -          | -                  | <0.003                                                       | mg/kg | TM15/PM10     |
| Xylenes (sum of isomers) #              | -          | -          | -          | -          | -          | -          | -          | -          | -          | -                  | <0.008                                                       | mg/kg | TM15/PM10     |
| Surrogate Recovery Toluene D8           | 89         | -          | -          | -          | -          | -          | -          | -          | -          | -                  | <0                                                           | %     | TM15/PM10     |
| Surrogate Recovery 4-Bromofluorobenzene | 59         | -          | -          | -          | -          | -          | -          | -          | -          | -                  | <0                                                           | %     | TM15/PM10     |
| Interpretation - Gasoline               | N          | N          | N          | N          | N          | N          | N          | N          | N          | -                  |                                                              | None  | TM5/PM8       |
| Interpretation - Diesel                 | N          | N          | N          | N          | N          | N          | N          | N          | N          | -                  |                                                              | None  | TM5/PM8       |
| Mineral Oil (C10-C40)                   | <30        | -          | -          | -          | -          | -          | -          | -          | -          | -                  | <30                                                          | mg/kg | TM5/PM16      |
| EPH (C10-C40) with clean up             | 301        | <30        | 3590       | <30        | 2342       | 173        | <30        | <30        | 417        | -                  | <30                                                          | mg/kg | TM5/PM16      |
| TPH (C6-C40)                            | 301        | <30        | 3590       | <30        | 2342       | 173        | <30        | <30        | 417        | -                  | <30                                                          | mg/kg | TM5/PM16/PM15 |
| TPH CWG                                 |            |            |            |            |            |            |            |            |            |                    |                                                              |       |               |
| <b>Aliphatics</b>                       |            |            |            |            |            |            |            |            |            |                    |                                                              |       |               |
| >C5-C6 #                                | -          | -          | -          | -          | -          | -          | -          | -          | -          | <1.0 <sup>AC</sup> | <0.1                                                         | mg/kg | TM36/PM12     |
| >C6-C8 #                                | -          | -          | -          | -          | -          | -          | -          | -          | -          | <1.0 <sup>AC</sup> | <0.1                                                         | mg/kg | TM36/PM12     |
| >C8-C10                                 | -          | -          | -          | -          | -          | -          | -          | -          | -          | <1.0 <sup>AC</sup> | <0.1                                                         | mg/kg | TM36/PM12     |
| >C10-C12 #                              | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.2               | <0.2                                                         | mg/kg | TM5/PM16      |
| >C12-C16 #                              | -          | -          | -          | -          | -          | -          | -          | -          | -          | <4                 | <4                                                           | mg/kg | TM5/PM16      |
| >C16-C21 #                              | -          | -          | -          | -          | -          | -          | -          | -          | -          | <7                 | <7                                                           | mg/kg | TM5/PM16      |
| >C21-C35 #                              | -          | -          | -          | -          | -          | -          | -          | -          | -          | 36                 | <7                                                           | mg/kg | TM5/PM16      |
| >C35-C44                                | -          | -          | -          | -          | -          | -          | -          | -          | -          | <7                 | <7                                                           | mg/kg | TM5/PM16      |
| Total aliphatics C5-44                  | -          | -          | -          | -          | -          | -          | -          | -          | -          | 36                 | <26                                                          | mg/kg | TM5/PM36/PM16 |

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| J E Sample No.                        | 79-81              | 85-87      | 88-90              | 97-99      | 100-102            | 115-117    | 124-126    | 130-132    | 142-144    | 154-156              | Please see attached notes for all abbreviations and acronyms |       |            |
|---------------------------------------|--------------------|------------|--------------------|------------|--------------------|------------|------------|------------|------------|----------------------|--------------------------------------------------------------|-------|------------|
| Sample ID                             | TP10               | TP10       | TP7                | TP7        | TP8                | TP8        | WS16       | WS16       | TP5        | TP5                  |                                                              |       |            |
| Depth                                 | 2.50               | 3.20       | 0.50               | 2.00       | 0.40               | 3.00       | 1.70       | 2.80       | 0.50       | 2.50                 |                                                              |       |            |
| COC No / misc                         |                    |            |                    |            |                    |            |            |            |            |                      |                                                              |       |            |
| Containers                            | V J T              | V J T      | V J T              | V J T      | V J T              | V J T      | V J T      | V J T      | V J T      | V J T                |                                                              |       |            |
| Sample Date                           | 12/10/2016         | 12/10/2016 | 12/10/2016         | 12/10/2016 | 12/10/2016         | 12/10/2016 | 12/10/2016 | 12/10/2016 | 13/10/2016 | 13/10/2016           |                                                              |       |            |
| Sample Type                           | Soil               | Soil       | Soil               | Soil       | Soil               | Soil       | Soil       | Soil       | Soil       | Soil                 |                                                              |       |            |
| Batch Number                          | 3                  | 3          | 3                  | 3          | 3                  | 3          | 3          | 3          | 4          | 4                    |                                                              |       |            |
| Date of Receipt                       | 14/10/2016         | 14/10/2016 | 14/10/2016         | 14/10/2016 | 14/10/2016         | 14/10/2016 | 14/10/2016 | 14/10/2016 | 15/10/2016 | 15/10/2016           | LOD/LOR                                                      | Units | Method No. |
| TPH CWG                               |                    |            |                    |            |                    |            |            |            |            |                      |                                                              |       |            |
| <b>Aromatics</b>                      |                    |            |                    |            |                    |            |            |            |            |                      |                                                              |       |            |
| >C5-EC7                               | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.1                                                         | mg/kg | TM36/PM12  |
| >C5-EC7 #                             | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | <1.0 <sup>AC</sup>   | <0.1                                                         | mg/kg | TM36/PM12  |
| >EC7-EC8                              | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.1                                                         | mg/kg | TM36/PM12  |
| >EC7-EC8 #                            | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | <1.0 <sup>AC</sup>   | <0.1                                                         | mg/kg | TM36/PM12  |
| >EC8-EC10 #                           | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | <1.0 <sup>AC</sup>   | <0.1                                                         | mg/kg | TM36/PM12  |
| >EC10-EC12                            | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | <0.2                 | <0.2                                                         | mg/kg | TM5/PM16   |
| >EC10-EC12 #                          | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.2                                                         | mg/kg | TM5/PM16   |
| >EC12-EC16                            | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | <4                   | <4                                                           | mg/kg | TM5/PM16   |
| >EC12-EC16 #                          | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <4                                                           | mg/kg | TM5/PM16   |
| >EC16-EC21                            | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | 22                   | <7                                                           | mg/kg | TM5/PM16   |
| >EC16-EC21 #                          | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <7                                                           | mg/kg | TM5/PM16   |
| >EC21-EC35                            | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | 171                  | <7                                                           | mg/kg | TM5/PM16   |
| >EC21-EC35 #                          | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <7                                                           | mg/kg | TM5/PM16   |
| >EC35-EC44                            | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | 45                   | <7                                                           | mg/kg | TM5/PM16   |
| Total aromatics C5-44                 | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | 238                  | <26                                                          | mg/kg | TM5/PM16   |
| Total aliphatics and aromatics(C5-44) | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | 274                  | <52                                                          | mg/kg | TM5/PM16   |
| GRO (>C4-C8) #                        | <1.0 <sup>AC</sup> | <0.1       | <1.0 <sup>AC</sup> | <0.1       | <1.0 <sup>AC</sup> | <0.1       | <0.1       | <0.1       | <0.1       | -                    | <0.1                                                         | mg/kg | TM36/PM12  |
| GRO (>C8-C12) #                       | <1.0 <sup>AC</sup> | <0.1       | <1.0 <sup>AC</sup> | <0.1       | <1.0 <sup>AC</sup> | <0.1       | <0.1       | <0.1       | <0.1       | -                    | <0.1                                                         | mg/kg | TM36/PM12  |
| GRO (>C4-C12) #                       | <1.0 <sup>AC</sup> | <0.1       | <1.0 <sup>AC</sup> | <0.1       | <1.0 <sup>AC</sup> | <0.1       | <0.1       | <0.1       | <0.1       | -                    | <0.1                                                         | mg/kg | TM36/PM12  |
| GRO (C6-C10)                          | <1.0 <sup>AC</sup> | <0.1       | <1.0 <sup>AC</sup> | <0.1       | <1.0 <sup>AC</sup> | <0.1       | <0.1       | <0.1       | <0.1       | -                    | <0.1                                                         | mg/kg | TM36/PM12  |
| MTBE #                                | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | <0.050 <sup>AC</sup> | <0.005                                                       | mg/kg | TM31/PM12  |
| Benzene #                             | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | <0.050 <sup>AC</sup> | <0.005                                                       | mg/kg | TM31/PM12  |
| Toluene #                             | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | <0.050 <sup>AC</sup> | <0.005                                                       | mg/kg | TM31/PM12  |
| Ethylbenzene #                        | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | <0.050 <sup>AC</sup> | <0.005                                                       | mg/kg | TM31/PM12  |
| m/p-Xylene #                          | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | <0.050 <sup>AC</sup> | <0.005                                                       | mg/kg | TM31/PM12  |
| o-Xylene #                            | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | <0.050 <sup>AC</sup> | <0.005                                                       | mg/kg | TM31/PM12  |
| PCB 28 #                              | <0.005             | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 52 #                              | <0.005             | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 101 #                             | <0.005             | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 118 #                             | <0.005             | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 138 #                             | <0.005             | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 153 #                             | <0.005             | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 180 #                             | <0.005             | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.005                                                       | mg/kg | TM17/PM8   |
| Total 7 PCBs #                        | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.035                                                       | mg/kg | TM17/PM8   |
| SEM                                   | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <110                                                         | mg/kg | TM7/PM6    |
| SEM #                                 | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <110                                                         | mg/kg | TM7/PM6    |
| Saturates (Aliphatics)                | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.01                                                        | %     | TM13/PM6   |
| Aromatics                             | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.01                                                        | %     | TM13/PM6   |
| Resins (Heterocyclics)                | -                  | -          | -                  | -          | -                  | -          | -          | -          | -          | -                    | <0.01                                                        | %     | TM13/PM6   |

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| J E Sample No.                    | 166-168    | 175-177    | 184-186    | 193-195    | 220-222    | 226-228    | 241-243    | 250-252    | 262-264    | 268-270    | Please see attached notes for all abbreviations and acronyms |       |            |
|-----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------------------------------------------------|-------|------------|
| Sample ID                         | TP6        | TP6        | TP02       | TP02       | BH22       | BH22       | TP01       | TP01       | TP03       | TP03       |                                                              |       |            |
| Depth                             | 1.00       | 2.50       | 0.50       | 2.00       | 3.00       | 4.00       | 0.50       | 2.00       | 0.50       | 1.50       |                                                              |       |            |
| COC No / misc                     |            |            |            |            |            |            |            |            |            |            |                                                              |       |            |
| Containers                        | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      |                                                              |       |            |
| Sample Date                       | 13/10/2016 | 13/10/2016 | 13/10/2016 | 13/10/2016 | 13/10/2016 | 13/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 | 14/10/2016 |                                                              |       |            |
| Sample Type                       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       |                                                              |       |            |
| Batch Number                      | 4          | 4          | 5          | 5          | 6          | 6          | 7          | 7          | 7          | 7          |                                                              |       |            |
| Date of Receipt                   | 15/10/2016 | 15/10/2016 | 15/10/2016 | 15/10/2016 | 15/10/2016 | 15/10/2016 | 18/10/2016 | 18/10/2016 | 18/10/2016 | 18/10/2016 | LOD/LOR                                                      | Units | Method No. |
| PAH MS                            |            |            |            |            |            |            |            |            |            |            |                                                              |       |            |
| Naphthalene #                     | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | 0.13       | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Acenaphthylene                    | <0.03      | <0.03      | <0.03      | <0.03      | 0.05       | <0.03      | <0.03      | <0.03      | <0.03      | <0.03      | <0.03                                                        | mg/kg | TM4/PM8    |
| Acenaphthene #                    | <0.05      | <0.05      | <0.05      | <0.05      | <0.05      | <0.05      | <0.05      | <0.05      | <0.05      | <0.05      | <0.05                                                        | mg/kg | TM4/PM8    |
| Fluorene #                        | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Phenanthrene #                    | 0.06       | 0.08       | 0.05       | <0.03      | 0.20       | <0.03      | 0.21       | <0.03      | 0.31       | <0.03      | <0.03                                                        | mg/kg | TM4/PM8    |
| Anthracene #                      | <0.04      | <0.04      | <0.04      | <0.04      | 0.09       | <0.04      | 0.07       | <0.04      | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Fluoranthene #                    | 0.08       | <0.03      | 0.10       | <0.03      | 0.41       | 0.04       | 0.56       | <0.03      | 0.08       | <0.03      | <0.03                                                        | mg/kg | TM4/PM8    |
| Pyrene #                          | 0.07       | <0.03      | 0.08       | <0.03      | 0.38       | 0.04       | 0.49       | <0.03      | 0.11       | <0.03      | <0.03                                                        | mg/kg | TM4/PM8    |
| Benzo(a)anthracene #              | <0.06      | <0.06      | 0.08       | <0.06      | 0.29       | <0.06      | 0.25       | <0.06      | 0.18       | <0.06      | <0.06                                                        | mg/kg | TM4/PM8    |
| Chrysene #                        | 0.03       | 0.04       | 0.07       | <0.02      | 0.32       | <0.02      | 0.26       | <0.02      | 0.14       | <0.02      | <0.02                                                        | mg/kg | TM4/PM8    |
| Benzo(bk)fluoranthene #           | <0.07      | <0.07      | 0.11       | <0.07      | 0.68       | <0.07      | 0.43       | <0.07      | 0.22       | <0.07      | <0.07                                                        | mg/kg | TM4/PM8    |
| Benzo(a)pyrene #                  | <0.04      | <0.04      | 0.06       | <0.04      | 0.34       | <0.04      | 0.21       | <0.04      | 0.12       | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Indeno(123cd)pyrene #             | <0.04      | <0.04      | <0.04      | <0.04      | 0.23       | <0.04      | 0.13       | <0.04      | 0.08       | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Dibenzo(ah)anthracene #           | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Benzo(ghi)perylene #              | <0.04      | <0.04      | <0.04      | <0.04      | 0.20       | <0.04      | 0.12       | <0.04      | 0.07       | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Coronene                          | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| PAH 17 Total                      | <0.64      | <0.64      | <0.64      | <0.64      | 3.19       | <0.64      | 2.73       | <0.64      | 1.44       | <0.64      | <0.64                                                        | mg/kg | TM4/PM8    |
| Benzo(b)fluoranthene              | <0.05      | <0.05      | 0.08       | <0.05      | 0.49       | <0.05      | 0.31       | <0.05      | 0.16       | <0.05      | <0.05                                                        | mg/kg | TM4/PM8    |
| Benzo(k)fluoranthene              | <0.02      | <0.02      | 0.03       | <0.02      | 0.19       | <0.02      | 0.12       | <0.02      | 0.06       | <0.02      | <0.02                                                        | mg/kg | TM4/PM8    |
| Benzo(a)pyrene fraction of C6-C40 | <0.01      | <0.01      | <0.01      | -          | 0.13       | -          | 0.17       | -          | <0.01      | -          | <0.01                                                        | %     | TM4/PM8    |
| Benzo(a)pyrene fraction of C6-C40 | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -                                                            | %     | TM4/PM8    |
| PAH Surrogate % Recovery          | 107        | 107        | 106        | 114        | 106        | 105        | 108        | 103        | 109        | 102        | <0                                                           | %     | TM4/PM8    |
| Naphthalene                       | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Acenaphthylene                    | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Acenaphthene                      | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.05                                                        | mg/kg | TM4/PM6    |
| Fluorene                          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Phenanthrene                      | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Anthracene                        | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Fluoranthene                      | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Pyrene                            | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Benzo(a)anthracene                | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.06                                                        | mg/kg | TM4/PM6    |
| Chrysene                          | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.02                                                        | mg/kg | TM4/PM6    |
| Benzo(bk)fluoranthene             | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.07                                                        | mg/kg | TM4/PM6    |
| Benzo(a)pyrene                    | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Indeno(123cd)pyrene               | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Dibenzo(ah)anthracene             | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Benzo(ghi)perylene                | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| PAH 16 Total                      | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.6                                                         | mg/kg | TM4/PM6    |
| Benzo(b)fluoranthene              | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.05                                                        | mg/kg | TM4/PM6    |
| Benzo(k)fluoranthene              | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.02                                                        | mg/kg | TM4/PM6    |
| Methyl Tertiary Butyl Ether #     | -          | -          | <0.002     | <0.002     | -          | -          | -          | -          | -          | -          | <0.002                                                       | mg/kg | TM15/PM10  |

**Client Name:** Waterman Infrastructure & Environment Limited  
**Reference:** WIE 13235  
**Location:** Phoenix St  
**Contact:** Ben Greenfield  
**JE Job No.:** 16/15353

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

| J E Sample No.                          | 166-168    | 175-177    | 184-186    | 193-195    | 220-222    | 226-228    | 241-243    | 250-252            | 262-264    | 268-270    | Please see attached notes for all abbreviations and acronyms |       |               |
|-----------------------------------------|------------|------------|------------|------------|------------|------------|------------|--------------------|------------|------------|--------------------------------------------------------------|-------|---------------|
| Sample ID                               | TP6        | TP6        | TP02       | TP02       | BH22       | BH22       | TP01       | TP01               | TP03       | TP03       |                                                              |       |               |
| Depth                                   | 1.00       | 2.50       | 0.50       | 2.00       | 3.00       | 4.00       | 0.50       | 2.00               | 0.50       | 1.50       |                                                              |       |               |
| COC No / misc                           |            |            |            |            |            |            |            |                    |            |            |                                                              |       |               |
| Containers                              | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T              | V J T      | V J T      |                                                              |       |               |
| Sample Date                             | 13/10/2016 | 13/10/2016 | 13/10/2016 | 13/10/2016 | 13/10/2016 | 13/10/2016 | 14/10/2016 | 14/10/2016         | 14/10/2016 | 14/10/2016 |                                                              |       |               |
| Sample Type                             | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil               | Soil       | Soil       |                                                              |       |               |
| Batch Number                            | 4          | 4          | 5          | 5          | 6          | 6          | 7          | 7                  | 7          | 7          |                                                              |       |               |
| Date of Receipt                         | 15/10/2016 | 15/10/2016 | 15/10/2016 | 15/10/2016 | 15/10/2016 | 15/10/2016 | 18/10/2016 | 18/10/2016         | 18/10/2016 | 18/10/2016 | LOD/LOR                                                      | Units | Method No.    |
| Benzene #                               | -          | -          | <0.003     | <0.003     | -          | -          | -          | -                  | -          | -          | <0.003                                                       | mg/kg | TM15/PM10     |
| Toluene #                               | -          | -          | <0.003     | <0.003     | -          | -          | -          | -                  | -          | -          | <0.003                                                       | mg/kg | TM15/PM10     |
| Ethylbenzene #                          | -          | -          | <0.003     | <0.003     | -          | -          | -          | -                  | -          | -          | <0.003                                                       | mg/kg | TM15/PM10     |
| p/m-Xylene #                            | -          | -          | <0.005     | <0.005     | -          | -          | -          | -                  | -          | -          | <0.005                                                       | mg/kg | TM15/PM10     |
| o-Xylene #                              | -          | -          | <0.003     | <0.003     | -          | -          | -          | -                  | -          | -          | <0.003                                                       | mg/kg | TM15/PM10     |
| Xylenes (sum of isomers) #              | -          | -          | -          | -          | -          | -          | -          | -                  | -          | -          | <0.008                                                       | mg/kg | TM15/PM10     |
| Surrogate Recovery Toluene D8           | -          | -          | 103        | 104        | 94         | 97         | 90         | 99                 | 97         | 100        | <0                                                           | %     | TM15/PM10     |
| Surrogate Recovery 4-Bromofluorobenzene | -          | -          | 91         | 105        | 85         | 102        | 74         | 80                 | 59         | 82         | <0                                                           | %     | TM15/PM10     |
| Interpretation - Gasoline               | N          | N          | N          | -          | N          | -          | N          | -                  | N          | -          |                                                              | None  | TM5/PM8       |
| Interpretation - Diesel                 | N          | N          | N          | -          | N          | -          | N          | -                  | N          | -          |                                                              | None  | TM5/PM8       |
| Mineral Oil (C10-C40)                   | -          | -          | <30        | -          | -          | -          | 97         | <30                | <30        | -          | <30                                                          | mg/kg | TM5/PM16      |
| EPH (C10-C40) with clean up             | <30        | <30        | <30        | -          | 264        | -          | 125        | -                  | <30        | -          | <30                                                          | mg/kg | TM5/PM16      |
| TPH (C6-C40)                            | <30        | <30        | <30        | -          | 265        | -          | 125        | -                  | <30        | -          | <30                                                          | mg/kg | TM5/PM16/PM10 |
| TPH CWG                                 |            |            |            |            |            |            |            |                    |            |            |                                                              |       |               |
| <b>Aliphatics</b>                       |            |            |            |            |            |            |            |                    |            |            |                                                              |       |               |
| >C5-C6 #                                | -          | -          | -          | <0.1       | -          | <0.1       | -          | <1.0 <sub>AC</sub> | -          | <0.1       | <0.1                                                         | mg/kg | TM36/PM12     |
| >C6-C8 #                                | -          | -          | -          | <0.1       | -          | <0.1       | -          | <1.0 <sub>AC</sub> | -          | <0.1       | <0.1                                                         | mg/kg | TM36/PM12     |
| >C8-C10                                 | -          | -          | -          | <0.1       | -          | <0.1       | -          | <1.0 <sub>AC</sub> | -          | <0.1       | <0.1                                                         | mg/kg | TM36/PM12     |
| >C10-C12 #                              | -          | -          | -          | <0.2       | -          | <0.2       | -          | <0.2               | -          | <0.2       | <0.2                                                         | mg/kg | TM5/PM16      |
| >C12-C16 #                              | -          | -          | -          | <4         | -          | <4         | -          | <4                 | -          | <4         | <4                                                           | mg/kg | TM5/PM16      |
| >C16-C21 #                              | -          | -          | -          | <7         | -          | <7         | -          | <7                 | -          | <7         | <7                                                           | mg/kg | TM5/PM16      |
| >C21-C35 #                              | -          | -          | -          | <7         | -          | <7         | -          | <7                 | -          | <7         | <7                                                           | mg/kg | TM5/PM16      |
| >C35-C44                                | -          | -          | -          | <7         | -          | <7         | -          | <7                 | -          | <7         | <7                                                           | mg/kg | TM5/PM16      |
| Total aliphatics C5-44                  | -          | -          | -          | <26        | -          | <26        | -          | <26                | -          | <26        | <26                                                          | mg/kg | TM5/PM16/PM10 |

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| J E Sample No.                        | 166-168    | 175-177            | 184-186    | 193-195    | 220-222    | 226-228    | 241-243    | 250-252            | 262-264            | 268-270    | Please see attached notes for all abbreviations and acronyms |       |            |
|---------------------------------------|------------|--------------------|------------|------------|------------|------------|------------|--------------------|--------------------|------------|--------------------------------------------------------------|-------|------------|
| Sample ID                             | TP6        | TP6                | TP02       | TP02       | BH22       | BH22       | TP01       | TP01               | TP03               | TP03       |                                                              |       |            |
| Depth                                 | 1.00       | 2.50               | 0.50       | 2.00       | 3.00       | 4.00       | 0.50       | 2.00               | 0.50               | 1.50       |                                                              |       |            |
| COC No / misc                         |            |                    |            |            |            |            |            |                    |                    |            |                                                              |       |            |
| Containers                            | V J T      | V J T              | V J T      | V J T      | V J T      | V J T      | V J T      | V J T              | V J T              | V J T      |                                                              |       |            |
| Sample Date                           | 13/10/2016 | 13/10/2016         | 13/10/2016 | 13/10/2016 | 13/10/2016 | 13/10/2016 | 14/10/2016 | 14/10/2016         | 14/10/2016         | 14/10/2016 |                                                              |       |            |
| Sample Type                           | Soil       | Soil               | Soil       | Soil       | Soil       | Soil       | Soil       | Soil               | Soil               | Soil       |                                                              |       |            |
| Batch Number                          | 4          | 4                  | 5          | 5          | 6          | 6          | 7          | 7                  | 7                  | 7          |                                                              |       |            |
| Date of Receipt                       | 15/10/2016 | 15/10/2016         | 15/10/2016 | 15/10/2016 | 15/10/2016 | 15/10/2016 | 18/10/2016 | 18/10/2016         | 18/10/2016         | 18/10/2016 | LOD/LOR                                                      | Units | Method No. |
| TPH CWG                               |            |                    |            |            |            |            |            |                    |                    |            |                                                              |       |            |
| <b>Aromatics</b>                      |            |                    |            |            |            |            |            |                    |                    |            |                                                              |       |            |
| >C5-EC7                               | -          | -                  | -          | <0.1       | -          | <0.1       | -          | -                  | -                  | <0.1       | <0.1                                                         | mg/kg | TM36/PM12  |
| >C5-EC7 #                             | -          | -                  | -          | -          | -          | -          | -          | <1.0 <sub>AC</sub> | -                  | -          | <0.1                                                         | mg/kg | TM36/PM12  |
| >EC7-EC8                              | -          | -                  | -          | <0.1       | -          | <0.1       | -          | -                  | -                  | <0.1       | <0.1                                                         | mg/kg | TM36/PM12  |
| >EC7-EC8 #                            | -          | -                  | -          | -          | -          | -          | -          | <1.0 <sub>AC</sub> | -                  | -          | <0.1                                                         | mg/kg | TM36/PM12  |
| >EC8-EC10 #                           | -          | -                  | -          | <0.1       | -          | <0.1       | -          | <1.0 <sub>AC</sub> | -                  | <0.1       | <0.1                                                         | mg/kg | TM36/PM12  |
| >EC10-EC12                            | -          | -                  | -          | <0.2       | -          | <0.2       | -          | <0.2               | -                  | <0.2       | <0.2                                                         | mg/kg | TM5/PM16   |
| >EC10-EC12 #                          | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <0.2                                                         | mg/kg | TM5/PM16   |
| >EC12-EC16                            | -          | -                  | -          | <4         | -          | <4         | -          | <4                 | -                  | <4         | <4                                                           | mg/kg | TM5/PM16   |
| >EC12-EC16 #                          | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <4                                                           | mg/kg | TM5/PM16   |
| >EC16-EC21                            | -          | -                  | -          | <7         | -          | <7         | -          | <7                 | -                  | <7         | <7                                                           | mg/kg | TM5/PM16   |
| >EC16-EC21 #                          | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <7                                                           | mg/kg | TM5/PM16   |
| >EC21-EC35                            | -          | -                  | -          | <7         | -          | <7         | -          | <7                 | -                  | <7         | <7                                                           | mg/kg | TM5/PM16   |
| >EC21-EC35 #                          | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <7                                                           | mg/kg | TM5/PM16   |
| >EC35-EC44                            | -          | -                  | -          | <7         | -          | <7         | -          | <7                 | -                  | <7         | <7                                                           | mg/kg | TM5/PM16   |
| Total aromatics C5-44                 | -          | -                  | -          | <26        | -          | <26        | -          | <26                | -                  | <26        | <26                                                          | mg/kg | TM5/PM16   |
| Total aliphatics and aromatics(C5-44) | -          | -                  | -          | <52        | -          | <52        | -          | <52                | -                  | <52        | <52                                                          | mg/kg | TM5/PM16   |
| GRO (>C4-C8) #                        | <0.1       | <0.1 <sup>SV</sup> | <0.1       | -          | 0.4        | -          | <0.1       | -                  | <1.0 <sub>AC</sub> | -          | <0.1                                                         | mg/kg | TM36/PM12  |
| GRO (>C8-C12) #                       | <0.1       | <0.1 <sup>SV</sup> | <0.1       | -          | 0.6        | -          | <0.1       | -                  | <1.0 <sub>AC</sub> | -          | <0.1                                                         | mg/kg | TM36/PM12  |
| GRO (>C4-C12) #                       | <0.1       | <0.1 <sup>SV</sup> | <0.1       | -          | 1.0        | -          | <0.1       | -                  | <1.0 <sub>AC</sub> | -          | <0.1                                                         | mg/kg | TM36/PM12  |
| GRO (C6-C10)                          | <0.1       | <0.1 <sup>SV</sup> | <0.1       | -          | 0.8        | -          | <0.1       | -                  | <1.0 <sub>AC</sub> | -          | <0.1                                                         | mg/kg | TM36/PM12  |
| MTBE #                                | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <0.005                                                       | mg/kg | TM31/PM12  |
| Benzene #                             | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <0.005                                                       | mg/kg | TM31/PM12  |
| Toluene #                             | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <0.005                                                       | mg/kg | TM31/PM12  |
| Ethylbenzene #                        | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <0.005                                                       | mg/kg | TM31/PM12  |
| m/p-Xylene #                          | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <0.005                                                       | mg/kg | TM31/PM12  |
| o-Xylene #                            | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <0.005                                                       | mg/kg | TM31/PM12  |
| PCB 28 #                              | -          | -                  | <0.005     | -          | -          | -          | 0.009      | <0.005             | <0.005             | -          | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 52 #                              | -          | -                  | <0.005     | -          | -          | -          | <0.005     | <0.005             | <0.005             | -          | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 101 #                             | -          | -                  | <0.005     | -          | -          | -          | 0.007      | <0.005             | <0.005             | -          | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 118 #                             | -          | -                  | <0.005     | -          | -          | -          | <0.005     | <0.005             | <0.005             | -          | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 138 #                             | -          | -                  | <0.005     | -          | -          | -          | 0.010      | <0.005             | <0.005             | -          | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 153 #                             | -          | -                  | <0.005     | -          | -          | -          | 0.009      | <0.005             | <0.005             | -          | <0.005                                                       | mg/kg | TM17/PM8   |
| PCB 180 #                             | -          | -                  | <0.005     | -          | -          | -          | 0.007      | <0.005             | <0.005             | -          | <0.005                                                       | mg/kg | TM17/PM8   |
| Total 7 PCBs #                        | -          | -                  | <0.035     | -          | -          | -          | 0.042      | <0.035             | <0.035             | -          | <0.035                                                       | mg/kg | TM17/PM8   |
| SEM                                   | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <110                                                         | mg/kg | TM7/PM6    |
| SEM #                                 | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <110                                                         | mg/kg | TM7/PM6    |
| Saturates (Aliphatics)                | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <0.01                                                        | %     | TM13/PM6   |
| Aromatics                             | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <0.01                                                        | %     | TM13/PM6   |
| Resins (Heterocyclics)                | -          | -                  | -          | -          | -          | -          | -          | -                  | -                  | -          | <0.01                                                        | %     | TM13/PM6   |

Please see attached notes for all abbreviations and acronyms

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**Reference:** WIE 13235  
**Location:** Phoenix St  
**Contact:** Ben Greenfield  
**JE Job No.:** 16/15353

**Report : Solid**

**Solids:** V=60g VOC jar, J=250g glass jar, T=plastic tub

| J E Sample No.                    | 292-294              | 298-300    | 304-306              | 310-312    | 334-336    | 337-339    | 352-354    | 370-372    | 385-387    | 397-399    | Please see attached notes for all abbreviations and acronyms |       |            |
|-----------------------------------|----------------------|------------|----------------------|------------|------------|------------|------------|------------|------------|------------|--------------------------------------------------------------|-------|------------|
| Sample ID                         | TP18                 | TP19       | TP20                 | TP21       | TP9        | TP9        | TP9        | BH13       | BH13       | BH13       |                                                              |       |            |
| Depth                             | 0.60                 | 0.40       | 0.80                 | 0.60       | 0.05       | 0.50       | 3.00       | 2.00       | 4.50       | 8.00       |                                                              |       |            |
| COC No / misc                     |                      |            |                      |            |            |            |            |            |            |            |                                                              |       |            |
| Containers                        | V J T                | V J T      | V J T                | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      |                                                              |       |            |
| Sample Date                       | 19/10/2016           | 19/10/2016 | 19/10/2016           | 19/10/2016 | 18/10/2016 | 18/10/2016 | 18/10/2016 | 24/10/2016 | 24/10/2016 | 24/10/2016 |                                                              |       |            |
| Sample Type                       | Soil                 | Soil       | Soil                 | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       |                                                              |       |            |
| Batch Number                      | 9                    | 9          | 9                    | 9          | 9          | 9          | 9          | 11         | 11         | 11         |                                                              |       |            |
| Date of Receipt                   | 20/10/2016           | 20/10/2016 | 20/10/2016           | 20/10/2016 | 20/10/2016 | 20/10/2016 | 20/10/2016 | 27/10/2016 | 27/10/2016 | 27/10/2016 | LOD/LOR                                                      | Units | Method No. |
| PAH MS                            |                      |            |                      |            |            |            |            |            |            |            |                                                              |       |            |
| Naphthalene #                     | 5.26 <sup>AB</sup>   | 0.12       | 0.79 <sup>AB</sup>   | 0.13       | -          | 0.09       | <0.04      | -          | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Acenaphthylene                    | 10.91 <sup>AB</sup>  | 0.20       | 0.85 <sup>AB</sup>   | 0.86       | -          | 0.15       | <0.03      | -          | <0.03      | <0.03      | <0.03                                                        | mg/kg | TM4/PM8    |
| Acenaphthene #                    | 2.01 <sup>AB</sup>   | 0.06       | 1.83 <sup>AB</sup>   | 0.24       | -          | <0.05      | <0.05      | -          | <0.05      | <0.05      | <0.05                                                        | mg/kg | TM4/PM8    |
| Fluorene #                        | 7.36 <sup>AB</sup>   | 0.11       | 1.77 <sup>AB</sup>   | 0.29       | -          | 0.05       | <0.04      | -          | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Phenanthrene #                    | 66.40 <sup>AB</sup>  | 1.58       | 16.63 <sup>AB</sup>  | 3.61       | -          | 0.87       | <0.03      | -          | <0.03      | <0.03      | <0.03                                                        | mg/kg | TM4/PM8    |
| Anthracene #                      | 16.52 <sup>AB</sup>  | 0.42       | 4.38 <sup>AB</sup>   | 1.78       | -          | 0.29       | <0.04      | -          | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Fluoranthene #                    | 69.61 <sup>AB</sup>  | 3.18       | 23.81 <sup>AB</sup>  | 11.35      | -          | 2.15       | <0.03      | -          | <0.03      | 0.04       | <0.03                                                        | mg/kg | TM4/PM8    |
| Pyrene #                          | 53.80 <sup>AB</sup>  | 2.69       | 18.50 <sup>AB</sup>  | 9.95       | -          | 1.88       | <0.03      | -          | <0.03      | <0.03      | <0.03                                                        | mg/kg | TM4/PM8    |
| Benzo(a)anthracene #              | 31.01 <sup>AB</sup>  | 2.72       | 12.53 <sup>AB</sup>  | 9.27       | -          | 1.32       | <0.06      | -          | <0.06      | <0.06      | <0.06                                                        | mg/kg | TM4/PM8    |
| Chrysene #                        | 24.85 <sup>AB</sup>  | 1.75       | 10.82 <sup>AB</sup>  | 6.20       | -          | 1.11       | <0.02      | -          | <0.02      | <0.02      | <0.02                                                        | mg/kg | TM4/PM8    |
| Benzo(bk)fluoranthene #           | 44.57 <sup>AB</sup>  | 3.34       | 18.11 <sup>AB</sup>  | 12.76      | -          | 2.43       | <0.07      | -          | <0.07      | <0.07      | <0.07                                                        | mg/kg | TM4/PM8    |
| Benzo(a)pyrene #                  | 26.76 <sup>AB</sup>  | 1.93       | 10.78 <sup>AB</sup>  | 7.94       | -          | 1.52       | <0.04      | -          | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Indeno(123cd)pyrene #             | 16.56 <sup>AB</sup>  | 1.25       | 6.24 <sup>AB</sup>   | 4.98       | -          | 1.06       | <0.04      | -          | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Dibenzo(ah)anthracene #           | 2.55 <sup>AB</sup>   | 0.17       | 0.98 <sup>AB</sup>   | 0.67       | -          | 0.13       | <0.04      | -          | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Benzo(ghi)perylene #              | 13.28 <sup>AB</sup>  | 0.92       | 5.13 <sup>AB</sup>   | 3.40       | -          | 0.79       | <0.04      | -          | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| Coronene                          | 2.81 <sup>AB</sup>   | 0.21       | 0.94 <sup>AB</sup>   | 0.66       | -          | 0.18       | <0.04      | -          | <0.04      | <0.04      | <0.04                                                        | mg/kg | TM4/PM8    |
| PAH 17 Total                      | 394.26 <sup>AB</sup> | 20.65      | 134.09 <sup>AB</sup> | 74.09      | -          | 14.02      | <0.64      | -          | <0.64      | <0.64      | <0.64                                                        | mg/kg | TM4/PM8    |
| Benzo(b)fluoranthene              | 32.09 <sup>AB</sup>  | 2.40       | 13.04 <sup>AB</sup>  | 9.19       | -          | 1.75       | <0.05      | -          | <0.05      | <0.05      | <0.05                                                        | mg/kg | TM4/PM8    |
| Benzo(k)fluoranthene              | 12.48 <sup>AB</sup>  | 0.94       | 5.07 <sup>AB</sup>   | 3.57       | -          | 0.68       | <0.02      | -          | <0.02      | <0.02      | <0.02                                                        | mg/kg | TM4/PM8    |
| Benzo(a)pyrene fraction of C6-C40 | 4.72 <sup>AB</sup>   | 1.13       | 1.21 <sup>AB</sup>   | 0.35       | -          | 1.06       | <0.01      | -          | -          | <0.01      | <0.01                                                        | %     | TM4/PM8    |
| Benzo(a)pyrene fraction of C6-C40 | -                    | -          | -                    | -          | -          | -          | -          | -          | -          | -          | -                                                            | %     | TM4/PM8    |
| PAH Surrogate % Recovery          | 98 <sup>AB</sup>     | 108        | 76 <sup>AB</sup>     | 107        | -          | 105        | 102        | -          | 112        | 107        | <0                                                           | %     | TM4/PM8    |
| Naphthalene                       | -                    | -          | -                    | -          | 0.04       | -          | <0.04      | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Acenaphthylene                    | -                    | -          | -                    | -          | 0.25       | -          | <0.03      | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Acenaphthene                      | -                    | -          | -                    | -          | <0.05      | -          | <0.05      | -          | -          | -          | <0.05                                                        | mg/kg | TM4/PM6    |
| Fluorene                          | -                    | -          | -                    | -          | 0.07       | -          | <0.04      | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Phenanthrene                      | -                    | -          | -                    | -          | 0.17       | -          | 0.12       | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Anthracene                        | -                    | -          | -                    | -          | 0.30       | -          | <0.04      | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Fluoranthene                      | -                    | -          | -                    | -          | 7.66       | -          | <0.03      | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Pyrene                            | -                    | -          | -                    | -          | 9.31       | -          | <0.03      | -          | -          | -          | <0.03                                                        | mg/kg | TM4/PM6    |
| Benzo(a)anthracene                | -                    | -          | -                    | -          | 4.32       | -          | <0.06      | -          | -          | -          | <0.06                                                        | mg/kg | TM4/PM6    |
| Chrysene                          | -                    | -          | -                    | -          | 5.58       | -          | <0.02      | -          | -          | -          | <0.02                                                        | mg/kg | TM4/PM6    |
| Benzo(bk)fluoranthene             | -                    | -          | -                    | -          | 11.02      | -          | <0.07      | -          | -          | -          | <0.07                                                        | mg/kg | TM4/PM6    |
| Benzo(a)pyrene                    | -                    | -          | -                    | -          | 4.58       | -          | <0.04      | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Indeno(123cd)pyrene               | -                    | -          | -                    | -          | 4.04       | -          | <0.04      | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Dibenzo(ah)anthracene             | -                    | -          | -                    | -          | 0.90       | -          | <0.04      | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| Benzo(ghi)perylene                | -                    | -          | -                    | -          | 3.42       | -          | <0.04      | -          | -          | -          | <0.04                                                        | mg/kg | TM4/PM6    |
| PAH 16 Total                      | -                    | -          | -                    | -          | 51.7       | -          | <0.6       | -          | -          | -          | <0.6                                                         | mg/kg | TM4/PM6    |
| Benzo(b)fluoranthene              | -                    | -          | -                    | -          | 7.93       | -          | <0.05      | -          | -          | -          | <0.05                                                        | mg/kg | TM4/PM6    |
| Benzo(k)fluoranthene              | -                    | -          | -                    | -          | 3.09       | -          | <0.02      | -          | -          | -          | <0.02                                                        | mg/kg | TM4/PM6    |
| Methyl Tertiary Butyl Ether #     | -                    | -          | -                    | -          | -          | -          | -          | -          | <0.002     | -          | <0.002                                                       | mg/kg | TM15/PM10  |

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| J E Sample No.                          | 292-294    | 298-300    | 304-306    | 310-312    | 334-336    | 337-339    | 352-354    | 370-372    | 385-387    | 397-399    | Please see attached notes for all abbreviations and acronyms |       |            |
|-----------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------------------------------------------------|-------|------------|
| Sample ID                               | TP18       | TP19       | TP20       | TP21       | TP9        | TP9        | TP9        | BH13       | BH13       | BH13       |                                                              |       |            |
| Depth                                   | 0.60       | 0.40       | 0.80       | 0.60       | 0.05       | 0.50       | 3.00       | 2.00       | 4.50       | 8.00       |                                                              |       |            |
| COC No / misc                           |            |            |            |            |            |            |            |            |            |            |                                                              |       |            |
| Containers                              | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      | V J T      |                                                              |       |            |
| Sample Date                             | 19/10/2016 | 19/10/2016 | 19/10/2016 | 19/10/2016 | 18/10/2016 | 18/10/2016 | 18/10/2016 | 24/10/2016 | 24/10/2016 | 24/10/2016 |                                                              |       |            |
| Sample Type                             | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       | Soil       |                                                              |       |            |
| Batch Number                            | 9          | 9          | 9          | 9          | 9          | 9          | 9          | 11         | 11         | 11         |                                                              |       |            |
| Date of Receipt                         | 20/10/2016 | 20/10/2016 | 20/10/2016 | 20/10/2016 | 20/10/2016 | 20/10/2016 | 20/10/2016 | 27/10/2016 | 27/10/2016 | 27/10/2016 | LOD/LOR                                                      | Units | Method No. |
| Benzene #                               | -          | -          | -          | -          | -          | -          | -          | -          | <0.003     | -          | <0.003                                                       | mg/kg | TM15/PM10  |
| Toluene #                               | -          | -          | -          | -          | -          | -          | -          | -          | <0.003     | -          | <0.003                                                       | mg/kg | TM15/PM10  |
| Ethylbenzene #                          | -          | -          | -          | -          | -          | -          | -          | -          | <0.003     | -          | <0.003                                                       | mg/kg | TM15/PM10  |
| p/m-Xylene #                            | -          | -          | -          | -          | -          | -          | -          | -          | <0.005     | -          | <0.005                                                       | mg/kg | TM15/PM10  |
| o-Xylene #                              | -          | -          | -          | -          | -          | -          | -          | -          | <0.003     | -          | <0.003                                                       | mg/kg | TM15/PM10  |
| Xylenes (sum of isomers) #              | -          | -          | -          | -          | -          | -          | -          | -          | -          | -          | <0.008                                                       | mg/kg | TM15/PM10  |
| Surrogate Recovery Toluene D8           | 88         | 93         | 86         | 91         | -          | 90         | 92         | -          | 86         | -          | <0                                                           | %     | TM15/PM10  |
| Surrogate Recovery 4-Bromofluorobenzene | 78         | 76         | 77         | 71         | -          | 76         | 84         | -          | 78         | -          | <0                                                           | %     | TM15/PM10  |
| Interpretation - Gasoline               | N          | N          | N          | N          | -          | N          | N          | -          | -          | N          |                                                              | None  | TM5/PM8    |
| Interpretation - Diesel                 | N          | N          | N          | N          | -          | N          | N          | -          | -          | N          |                                                              | None  | TM5/PM8    |
| Mineral Oil (C10-C40)                   | 152        | -          | -          | -          | -          | -          | -          | -          | -          | -          | <30                                                          | mg/kg | TM5/PM16   |
| EPH (C10-C40) with clean up             | 567        | 171        | 889        | 2295       | -          | 143        | <30        | -          | -          | <30        | <30                                                          | mg/kg | TM5/PM16   |
| TPH (C6-C40)                            | 567        | 171        | 889        | 2295       | -          | 143        | <30        | -          | -          | <30        | <30                                                          | mg/kg | TM5/PM16   |
| TPH CWG                                 |            |            |            |            |            |            |            |            |            |            |                                                              |       |            |
| <b>Aliphatics</b>                       |            |            |            |            |            |            |            |            |            |            |                                                              |       |            |
| >C5-C6 #                                | -          | -          | -          | -          | -          | -          | -          | -          | <0.1       | -          | <0.1                                                         | mg/kg | TM36/PM12  |
| >C6-C8 #                                | -          | -          | -          | -          | -          | -          | -          | -          | <0.1       | -          | <0.1                                                         | mg/kg | TM36/PM12  |
| >C8-C10                                 | -          | -          | -          | -          | -          | -          | -          | -          | <0.1       | -          | <0.1                                                         | mg/kg | TM36/PM12  |
| >C10-C12 #                              | -          | -          | -          | -          | -          | -          | -          | -          | <0.2       | -          | <0.2                                                         | mg/kg | TM5/PM16   |
| >C12-C16 #                              | -          | -          | -          | -          | -          | -          | -          | -          | <4         | -          | <4                                                           | mg/kg | TM5/PM16   |
| >C16-C21 #                              | -          | -          | -          | -          | -          | -          | -          | -          | <7         | -          | <7                                                           | mg/kg | TM5/PM16   |
| >C21-C35 #                              | -          | -          | -          | -          | -          | -          | -          | -          | <7         | -          | <7                                                           | mg/kg | TM5/PM16   |
| >C35-C44                                | -          | -          | -          | -          | -          | -          | -          | -          | <7         | -          | <7                                                           | mg/kg | TM5/PM16   |
| Total aliphatics C5-44                  | -          | -          | -          | -          | -          | -          | -          | -          | <26        | -          | <26                                                          | mg/kg | TM5/PM16   |