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## ENGINEERING BOREHOLE

FOR GEOTECHNICAL TERMS AND SYMBOLS REFER FORM F:GEOT 017/3-2005

| BOREHOLE No  | <u>AH33</u>                 |
|--------------|-----------------------------|
| SHEET        | _ <u>1_</u> of _ <u>1</u> _ |
| REFERENCE No | <u>H9702</u>                |

| PROLET No <u>155404</u>  | PROJECT No FGS404       SURFACE R.L _ 20.51       DATE STARTED _ 100005       DATUM _ Ipex/ch Motorway         JOB No       149/17A/57       DATUM _ AHD       DATE COMPLETED _ 100005       DRILLER _ Drillsure         Image: Complex  | PROJ<br>LOCA  |       |       |             |        | RWAY / LOGAN MOTORWAY INTERCHANGE GI<br>About Chainage 385m, 3m right of control MCJ1-( |                   |                    |                 |             | <u>N</u><br>DORDINATES <u>30152.8 E; 147324.5 N</u> | — — —<br>N       |
|--|--|---|-------|-------|-------------|--------|---|-------------------|--------------------|-----------------|-------------|---|------------------|
| NL<br>B         NOD<br>(1)<br>(2)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3)<br>(3   | NL<br>m         NL<br>m <th< td=""><td>PROJ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>  | PROJ  |       |       |             |        |   |                   |                    |                 |             |   |                  |
| Image:   | Employee         (1)%         MATERIAL<br>DESCRIPTION         Image: Second<br>(1)%         Second<br>(1)%         MATERIAL<br>(1)%         Image: Second<br>(1)%         Image: S  |   |       |       |             |        |   | DAT               | E COMPLETE         | ED <u>10/08</u> | <u>3/05</u> | DRILLER <u>Drillsure</u>                            |                  |
| Subtraction of the second  | 2.2.1.1     SILT_Tropello Grey.       Pale yelkey grey, most, fine to medium grained, medium degrees of undiffere log.       Very little cohesion. Slight clay content increases SP.       SLIGHTLY CLAYEY SAND (Alluvium)       Crey, fine to medium grained, dense. Only minor day content.       SC       Borehole terminated at 2.95m  |   | (m)   | AUGER | ()%<br>CORE | SAMPLE |   | USC<br>WEATHERING | INTACT<br>STRENGTH |                 | GRAPHIC LOG | AND   | SAMPLES<br>TESTS |
| Pale yellow grey, moist, fine to medium<br>grained, medium dense to dense.<br>With depth.  | Pale yellow grey, moist, fine to medium<br>gramed, medium, dense to dense.<br>SP<br>With depth.<br>SIGHTLY CLAYEY SAND (Alluvium)<br>Grey, fine to medium graned, dense. Only<br>St.GHTLY CLAYEY SAND (Alluvium)<br>Grey, fine to medium graned, dense. Only<br>St.GHTLY CLAYEY SAND (Alluvium)<br>Grey, fine to medium graned, dense. Only<br>St.<br>ST.<br>St.GHTLY CLAYEY SAND (Alluvium)<br>Grey, fine to medium graned, dense. Only<br>St.<br>St.<br>St.<br>St.<br>St.<br>St.<br>St.<br>St.   |   | 20.41 |       |             |        | SILT (Topsoil) Grey.  | $\vdash$          |                    |                 |             | Based on drillers log.                              |                  |
| 2         18.51         SLIGHTLY CLAYEY SAND (Alluvium)         8.4         8.1  | 1         17.56         Subtraction of the second process of the second proces of the second proces of the second proces of the second | -<br>-<br>-<br>-<br>-   |       |       |             |        | Pale yellow grey, moist, fine to medium grained, medium dense to dense.                 |                   |                    |                 |             | 6,18,20<br>N=38                                     | SPT              |
| 17.58     Borehole terminated at 2.95m       0     0 </td <td>19.51       SLIGHTLY CLAYEY SAND (Alluvium)       7.12.19       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.61       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.61       Rowning rained, dense. Only       SM       SC       814.18       SPT         18.61       Rowning rained, dense. Only       Rowning rained, dense.18       SC       184.18       SC         19.61       Rowning rained, dense.18       Rowning rained, dense.18       Rown</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Very little cohesion. Slight clay content increases with depth.</td> <td></td> <td></td> <td></td> <td></td> <td>8,11,24<br/>N=35</td> <td>SPT</td>  | 19.51       SLIGHTLY CLAYEY SAND (Alluvium)       7.12.19       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.56       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.61       Rowning rained, dense. Only       SM       SC       814.18       SPT         17.61       Rowning rained, dense. Only       SM       SC       814.18       SPT         18.61       Rowning rained, dense. Only       Rowning rained, dense.18       SC       184.18       SC         19.61       Rowning rained, dense.18       Rowning rained, dense.18       Rown   |   |       |       |             |        | Very little cohesion. Slight clay content increases with depth.                         |                   |                    |                 |             | 8,11,24<br>N=35                                     | SPT              |
| Grey, fine to medium grained, dense. Only Ste<br>17.56<br>T. 17.56<br>T. 17.57<br>T. 17.56 | Image: Series   | -2  | 18.51 |       |             |        |   |                   |                    |                 |             | N=14  | SPT              |
| 3     7.56     8.14.18     SPT       3     17.56     80rehole terminated at 2.95m     1     1       4     1     1     1     1       5     1     1     1     1       10     1     1     1     1   | 17.56       minor day content.       SC  |   |       |       |             |        | Grey, fine to medium grained, dense. Only   | SM-               |                    |                 |             |   | SPT              |
|  | Dolence (enimised al 2.301)  |   | 17.56 |       |             |        | minor clay content.   | SC                |                    |                 |             | 8,14,18<br>N=32                                     | SPT              |
|  |  | ENGINEEKING BUREHOLE FG5444 - AUGER 6 9 09.647 GLD MAIN KUADS.GDT 16/17/05<br>1 | MARKS |       |             |        |   |                   |                    |                 |             | _   |                  |

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