

## **Appendix A: Borehole and Trial Pit Logs**

|                              |               |             |                    |                    |                                   |   |                                      |                 |                                       |  |
|------------------------------|---------------|-------------|--------------------|--------------------|-----------------------------------|---|--------------------------------------|-----------------|---------------------------------------|--|
| <b>BOREHOLE CONSTRUCTION</b> | <b>SAMPLE</b> |             |                    |                    | <b>BOREHOLE NUMBER: PRIO_BH04</b> |   | <b>PAGE 1 of 1</b>                   |                 |                                       |  |
|                              | <b>NUMBER</b> | <b>TYPE</b> | <b>PID READING</b> | <b>GROUNDWATER</b> | <b>DEPTH (m)</b>                  | <b>GEOLOGY</b>  | <b>DRILLING DATES: 21 March 2006</b> |                 | <b>DRILLING METHODS : Hollow Stem</b> |  |
|                              |               |             |                    |                    |                                   |   | <b>DRILLER : GES</b>                 |                 | <b>BOREHOLE DIAMETER : 200mm</b>      |  |
|                              |               |             |                    |                    |                                   |   | <b>LOGGED BY : Graeme Thornton</b>   |                 | <b>SCREEN TYPE &amp; DIAM: 50mm</b>   |  |
|                              |               |             |                    |                    |                                   |   | <b>CHECKED BY : Sophie Smith</b>     |                 | <b>SCREEN SLOT SIZE: 2mm</b>          |  |
|                              |               |             |                    |                    |                                   |   |                                      | <b>COMMENTS</b> |                                       |  |
|                              |               |             |                    |                    |                                   | <b>CONCRETE</b>   |                                      | NEC             |                                       |  |
|                              |               | 0ppm        |                    | 1.0                |                                   |   |                                      |                 |                                       |  |
|                              |               | 0.5ppm      |                    |                    |                                   | <b>GRAVEL</b><br>Loose brown wet clayey medium angular GRAVEL.  |                                      | NEC             |                                       |  |
|                              |               | 0.8ppm      |                    | 2.0                |                                   |   |                                      | NEC             |                                       |  |
|                              |               |             |                    |                    |                                   | <b>GRAVEL</b><br>Medium dense black clayey rounded GRAVEL with some rotten wood.  |                                      | NEC             |                                       |  |
|                              |               | 0.7ppm      |                    | 3.0                |                                   |   |                                      |                 |                                       |  |
|                              |               |             |                    |                    |                                   | <b>GRAVEL</b><br>Dense grey clayey rounded GRAVEL.  |                                      | NEC             |                                       |  |
|                              |               |             |                    | 4.0                |                                   |   |                                      |                 |                                       |  |
|                              |               | 0ppm        |                    |                    |                                   | <b>CLAY</b><br>Stiff grey slightly sandy slightly gravelly CLAY with occasional cobbles. Sand is fine. Gravel is angular. |                                      | NEC             |                                       |  |
|                              |               |             |                    | 5.0                |                                   |   |                                      |                 |                                       |  |
|                              |               |             |                    |                    |                                   | <b>GRAVEL</b><br>Dense brown medium angular GRAVEL.   |                                      | NEC             |                                       |  |
|                              |               |             |                    | 6.0                |                                   |   |                                      |                 |                                       |  |
|                              |               |             |                    |                    |                                   | <b>CLAY</b><br>Stiff grey slightly sandy slightly gravelly CLAY with occasional cobbles. Sand is fine. Gravel is angular  |                                      | NEC             |                                       |  |
|                              |               |             |                    |                    |                                   | End of Borehole   |                                      |                 |                                       |  |

**LOCATION / NOTES:**  
 NEC= No Evidence of Contamination  
 Seepage at 1.4m.  
 Water strike fast at 2.5m.

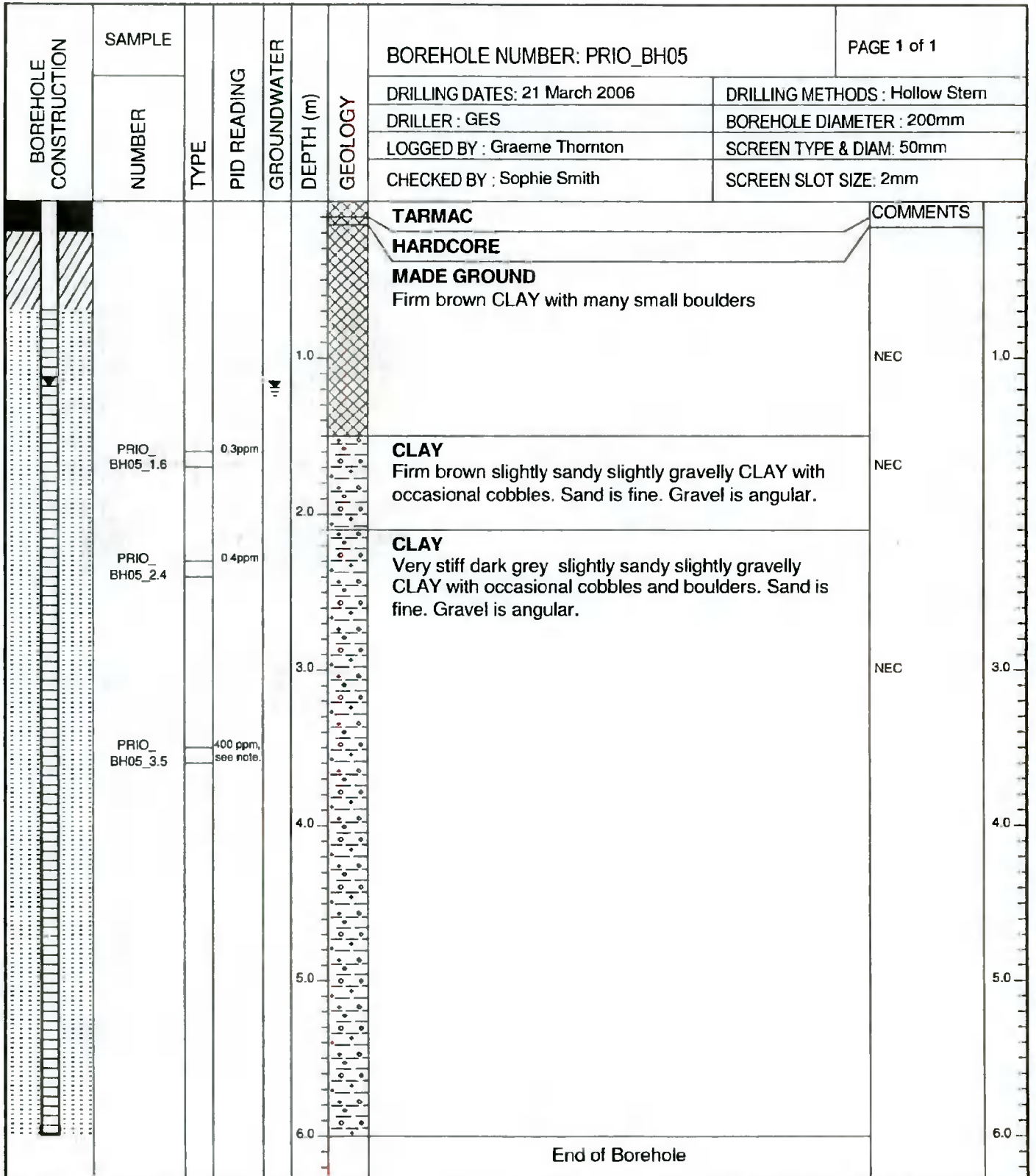
**LEGEND**

|  |                        |
|--|------------------------|
|  | Disturbed Sample       |
|  | Undisturbed Sample     |
|  | PID Headspace Analysis |
|  | Down Borehole Analysis |
|  | Groundwater Table      |
|  | Perched Water Table    |

**BOREHOLE LOG**

Job Title: Environmental Site Assessment of Esso Retail Sites, R.O.I.  
 Location: Priory SS, Nutgrove Avenue, Rathfarnham, Dublin 14.  
 Client: ABB Engineering Ltd.

|  |                 |                  |
|--|-----------------|------------------|
|  | App'd: GW       | Date: April 2006 |
|  | Drawn: GT       | Ref: 04201       |
|  | Scale: As shown | Job No: 45078281 |
|  | Dr. Size: A4    | BOREHOLE LOG     |



**LOCATION / NOTES:**  
 NEC= No Evidence of Contamination

The PID reading of 400ppm at 3.5m is an anomaly.  
 Seepage at 1.3m

- LEGEND**
- Disturbed Sample
  - Undisturbed Sample
  - PID Headspace Analysis
  - Down Borehole Analysis
  - Groundwater Table
  - Perched Water Table

**BOREHOLE LOG**

Job Title: Environmental Site Assessment of Esso Retail Sites, R.O.I.  
 Location: Prory SS, Nutgrove Avenue, Rathfarnham, Dublin 14  
 Client: ABB Engineering Ltd.

|     |                 |                  |
|-----|-----------------|------------------|
| URS | App'd: CW       | Date: April 2006 |
|     | Drawn : GT      | Ref: 04201       |
|     | Scale: As shown | Job No: 45078281 |
|     | Dwg. Size: A4   | BOREHOLE LOG     |

| BOREHOLE CONSTRUCTION | SAMPLE |                  | GROUNDWATER | DEPTH (m) | GEOLOGY   | BOREHOLE NUMBER: PRIO_BH06   |          | PAGE 1 of 1                   |  |
|-----------------------|--------|------------------|-------------|-----------|---|--|----------|-------------------------------|--|
|                       | NUMBER | TYPE             |             |           |   | DRILLING DATES: 22 March 2006  |          | DRILLING METHODS: Hollow Stem |  |
|                       |        |                  |             |           |   | DRILLER: GES   |          | BOREHOLE DIAMETER: 200mm      |  |
|                       |        |                  |             |           |   | LOGGED BY: Graeme Thornton   |          | SCREEN TYPE & DIAM: 50mm      |  |
|                       |        |                  |             |           |   | CHECKED BY: Sophie Smith   |          | SCREEN SLOT SIZE: 2mm         |  |
|                       |        |                  |             |           |   | <b>TOPSOIL</b>   | COMMENTS |                               |  |
|                       |        |                  |             |           |   | <b>MADE GROUND</b><br>Soft light brown slightly gravelly CLAY. Gravel is coarse and angular. | NEC      | 1.0                           |  |
| PRIO_BH06_1.6         |        | 0.1ppm<br>0.3ppm |             | 1.0       | <b>CLAY</b><br>Soft dark grey CLAY with rootlets.   | NEC<br>NEC   | 2.0      |                               |  |
| PRIO_BH06_2.3         |        | 0.2ppm           |             | 2.0       | <b>CLAY</b><br>Firm brown slightly sandy slightly gravelly CLAY with occasional cobbles. Sand is fine. Gravel is angular.           |  |          |                               |  |
|                       |        | 0ppm             |             | 3.0       | <b>BOULDERS</b><br>Boulders   |  | 3.0      |                               |  |
| PRIO_BH06_4           |        | 0.5ppm           |             | 4.0       | <b>CLAY</b><br>Very stiff dark grey slightly sandy slightly gravelly CLAY with occasional cobbles. Sand is fine. Gravel is angular. | NEC  | 4.0      |                               |  |
|                       |        |                  |             | 5.0       |   |  | 5.0      |                               |  |
|                       |        |                  |             | 6.0       |   |  | 6.0      |                               |  |
|                       |        |                  |             |           |   | End of Borehole  |          |                               |  |

**LOCATION / NOTES:**  
 NEC= No Evidence of Contamination  
 Seepage at 1.6m

**LEGEND**

- Disturbed Sample
- Undisturbed Sample
- PID Headspace Analysis
- Down Borehole Analysis
- Groundwater Table
- Perched Water Table

**BOREHOLE LOG**







Job Title: Environmental Site Assessment of Esso Retail Sites, R.O.I.  
 Location: Priory SS, Nutgrove Avenue, Rathfarnham, Dublin 14.  
 Client: ABB Engineering Ltd

|                 |                  |
|-----------------|------------------|
| App'd: GW       | Date: April 2006 |
| Drawn: GT       | Ref: 04201       |
| Scale: As shown | Job No: 45078281 |
| Drg. Size: A4   | BOREHOLE LOG     |

**URS**

|                       |        |      |                            |             |  |             |                              |                                |
|-----------------------|--------|------|----------------------------|-------------|--|-------------|------------------------------|--------------------------------|
| BOREHOLE CONSTRUCTION | SAMPLE |      | BOREHOLE NUMBER: PRIO_BH07 |             |  | PAGE 1 of 1 |                              |                                |
|                       | NUMBER | TYPE | PID READING                | GROUNDWATER | DEPTH (m)  | GEOLOGY     | DRILLING DATES: 20 May 2006  | DRILLING METHODS : Hollow Stem |
|                       |        |      |                            |             |  |             | DRILLER : GRL                | BOREHOLE DIAMETER : 200mm      |
|                       |        |      |                            |             |  |             | LOGGED BY : Graeme Thornton  | SCREEN TYPE & DIAM: 60mm       |
|                       |        |      |                            |             |  |             | CHECKED BY : Graeme Thornton | SCREEN SLOT SIZE: 2mm          |
| PRIO_BH07_0.5         |        |      |                            |             | TOPSOIL  | COMMENTS    |                              |                                |
|                       |        |      |                            | 1.0         | MADE GROUND<br>Medium dense brown gravelly SAND with occasional cobbles and brick fragments. Gravel is coarse and angular. | NEC         |                              |                                |
|                       |        |      |                            |             | SAND<br>Loose brown gravelly SAND. Gravel is angular   | NEC         |                              |                                |
| PRIO_BH07_1.5         |        | 2ppm |                            | 2.0         | CLAY<br>Soft dark brown sandy slightly gravelly CLAY with red brick. Sand is fine. Gravel is angular                       | NEC         |                              |                                |
|                       |        |      |                            |             | CLAY<br>Firm light brown CLAY with occasional small cobbles.   | NEC         |                              |                                |
| PRIO_BH07_2.5         |        | 1ppm |                            | 3.0         | BOULDERS<br>Boulders. No more progress.  |             |                              |                                |
|                       |        |      |                            |             | End of Borehole  |             |                              |                                |

**LOCATION / NOTES:**  
 NEC= No Evidence of Contamination  
 Seepage at 1.4m

- LEGEND**
-  Disturbed Sample
  -  Undisturbed Sample
  -  PID Headspace Analysis
  -  Down Borehole Analysis
  -  Groundwater Table
  -  Perched Water Table

**BOREHOLE LOG**

Job Title: Environmental Site Assessment of Esso Retail Sites, R.O.I.  
 Location: Priory SS, Nutgrove Avenue, Rathfarnham, Dublin 14.  
 Client: ABB Engineering Ltd.

|     |                 |                  |
|-----|-----------------|------------------|
| URS | App'd: GT       | Date: June 2006  |
|     | Drawn : GT      | Ref: 04201       |
|     | Scale: As shown | Job No: 45078281 |
|     | Drg. Size: A4   | BOREHOLE LOG     |



| BOREHOLE CONSTRUCTION | SAMPLE |      | PID READING | GROUNDWATER | DEPTH (m) | GEOLOGY  | BOREHOLE NUMBER: PRIO_BH08   |                 | PAGE 1 of 1                    |  |
|-----------------------|--------|------|-------------|-------------|-----------|--|------------------------------|-----------------|--------------------------------|--|
|                       | NUMBER | TYPE |             |             |           |  | DRILLING DATES: 20 May 2006  |                 | DRILLING METHODS : Hollow Stem |  |
|                       |        |      |             |             |           |  | DRILLER : GRL                |                 | BOREHOLE DIAMETER : 200mm      |  |
|                       |        |      |             |             |           |  | LOGGED BY : Graeme Thornton  |                 | SCREEN TYPE & DIAM: 60mm       |  |
|                       |        |      |             |             |           |  | CHECKED BY : Graeme Thornton |                 | SCREEN SLOT SIZE: 2mm          |  |
|                       |        |      |             |             |           | <b>TOPSOIL</b>   |                              | <b>COMMENTS</b> |                                |  |
| PRIO_BH08_0.5         |        |      |             |             |           | <b>MADE GROUND</b><br>Dense brown gravelly SAND with brick fragments and glass shards. Gravel is coarse and angular.               | NEG                          |                 |                                |  |
| PRIO_BH08_1.5         |        | 5ppm |             | 1.0         |           | <b>MADE GROUND</b><br>Dense brown gravelly SAND with many cobbles, brick fragments and glass shards. Gravel is coarse and angular. | NEG                          |                 | 1.0                            |  |
| PRIO_BH08_2.5         |        | 1ppm |             | 2.0         |           | <b>CLAY</b><br>Soft brown sandy CLAY. Sand is fine.  | NEG                          |                 | 2.0                            |  |
| PRIO_BH08_2.7         |        | 1ppm |             | 3.0         |           | <b>SILT</b><br>Soft grey SILT with flecks of white seashells   | NEG                          |                 |                                |  |
|                       |        |      |             |             |           | <b>CLAY</b><br>Soft dark brown slightly sandy CLAY with occasional small cobbles. Sand is fine.                                    | NEG                          |                 | 3.0                            |  |
|                       |        |      |             |             |           | <b>BOULDERS</b><br>No further progress.  |                              |                 |                                |  |
|                       |        |      |             |             |           | End of Borehole  |                              |                 |                                |  |

**LOCATION / NOTES:**  
 NEC= No Evidence of Contamination  
 Seepage at 1.8m


**LEGEND**

- Disturbed Sample
- Undisturbed Sample
- PID Headspace Analysis
- Down Borehole Analysis
- Groundwater Table
- Perched Water Table

**BOREHOLE LOG**







Job Title: Environmental Site Assessment of Esso Retail Sites, R.O.I.  
 Location: Priory SS, Nutgrove Avenue, Rathfarnham, Dublin 14  
 Client: ABB Engineering Ltd.

|                 |                  |
|-----------------|------------------|
| App'd: GT       | Date: June 2006  |
| Drawn: GT       | Ref: 04201       |
| Scale: As shown | Job No: 45078261 |
| Dr. Size: A4    | BOREHOLE LOG     |



|                       |        |        |             |             |                            |  |                             |  |                               |  |
|-----------------------|--------|--------|-------------|-------------|----------------------------|--|-----------------------------|--|-------------------------------|--|
| BOREHOLE CONSTRUCTION | SAMPLE |        |             |             | BOREHOLE NUMBER: PRIO_BH09 |  | PAGE 1 of 1                 |  |                               |  |
|                       | NUMBER | TYPE   | PID READING | GROUNDWATER | DEPTH (m)                  | GEOLOGY  | DRILLING DATES: 20 May 2006 |  | DRILLING METHODS: Hollow Stem |  |
|                       |        |        |             |             |                            |  | DRILLER: GRL                |  | BOREHOLE DIAMETER: 200mm      |  |
|                       |        |        |             |             |                            |  | LOGGED BY: Graeme Thornton  |  | SCREEN TYPE & DIAM: 60mm      |  |
|                       |        |        |             |             |                            |  | CHECKED BY: Graeme Thornton |  | SCREEN SLOT SIZE: 2mm         |  |
| PRIO_BH09_0.5         |        |        |             |             | TOPSOIL                    | COMMENTS   |                             |  |                               |  |
|                       |        |        |             |             | MADE GROUND                | Dense brown gravelly SAND with occasional cobbles and brick fragments. Gravel is coarse and angular. |                             |  |                               |  |
|                       |        |        |             | 1.0         | SAND                       | Loose brown slightly gravelly SAND. Gravel is coarse and angular.                                    |                             |  |                               |  |
| PRIO_BH09_1.5         |        | 3.5ppm |             |             | CLAY                       | Soft dark brown sandy CLAY. Sand is fine.  |                             |  |                               |  |
|                       |        |        | 3ppm        | 2.0         | CLAY                       | Soft brown slightly gravelly CLAY  |                             |  |                               |  |
|                       |        |        |             |             | CLAY                       | Firm grey very sandy CLAY with occasional small rounded cobbles. Sand is fine.                       |                             |  |                               |  |
| PRIO_BH09_2.5         |        | 2ppm   |             | 3.0         | BOULDERS                   | No further progress.   |                             |  |                               |  |
|                       |        |        |             |             | End of Borehole            |  |                             |  |                               |  |

**LOCATION / NOTES:**  
 NEC= No Evidence of Contamination  
 Seepage at 1.4m

- LEGEND**
-  Disturbed Sample
  -  Undisturbed Sample
  -  PID Headspace Analysis
  -  Down Borehole Analysis
  -  Groundwater Table
  -  Perched Water Table

**BOREHOLE LOG**

Job Title: Environmental Site Assessment of Esso Retail Sites, R.O.I.  
 Location: Priory SS, Nutgrove Avenue, Rathfarnham, Dublin 14.  
 Client: ABB Engineering Ltd.

|     |                 |                  |
|-----|-----------------|------------------|
| URS | App'd: GT       | Date: June 2006  |
|     | Drawn: GT       | Ref: 04201       |
|     | Scale: As shown | Job No: 45078281 |
|     | Org. Size: A4   | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY                                   | TEST PIT NUMBER: TP01  |                              | PAGE 1 of 1     |                             |
|----------------|------|-------------------|-------------|-----------|---|--|------------------------------|-----------------|-----------------------------|
| ID             | TYPE |                   |             |           |   | EXCAVATION DATES: 24/01/08   | EXCAVATOR TYPE: Tracked Case | CONTRACTOR: MSI | PIT DIMENSIONS: 2.5x0.5x3.4 |
| PRIO_TP01_0.5m |      | *0.0ppm           |             | 0.0       |   | <b>DESCRIPTION</b>   |                              | <b>COMMENTS</b> | 0.0                         |
|                |      |                   |             | 0.0 - 1.0 |   | <b>Made Ground</b><br>Loose dark brown silty sandy gravel  |                              | NEC             |                             |
| PRIO_TP01_1.5m |      | *0.2ppm           |             | 1.0       |   | <b>Made Ground</b><br>Soft brown sandy gravelly silt. Gravel is subangular to subrounded   |                              | NEC             | 1.0                         |
| PRIO_TP01_2.5m |      | *0.3ppm           |             | 2.0       |   | <b>Made Ground</b><br>Firm brown medium coarse sandy gravelly clay. Gravel is subangular to subrounded. Containing frequent cobbles, subangular to subrounded.                 |                              | NEC<br>Moist    | 2.0                         |
| PRIO_TP01_3.4m |      | *0.2ppm           |             | 3.0       |   | <b>Gravelly CLAY</b><br>Firm brown grey sandy gravelly CLAY. Sand is medium to coarse. Gravel is subangular to subrounded. Containing frequent cobbles, subrounded to rounded. |                              | NEC             | 3.0                         |
|                |      |                   |             | 4.0       | End of hole at 3.4m<br>Refusal on cobbles |  |                              | 4.0             |                             |
|                |      |                   |             | 5.0       |   |  |                              | 5.0             |                             |

**LOCATION / NOTES:**  
 NEC = No evidence of contamination

- LEGEND**
- Disturbed Sample
  - Undisturbed Sample
  - Suspected Asbestos Containing Material (ACM)
  - Groundwater Table
  - Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.

|  |                 |                  |
|--|-----------------|------------------|
|  | App'd: SES      | Date: Feb 2008   |
|  | Drawn: RR       | Ref: RR/EOH/DUB  |
|  | Scale: As Shown | Job No: 45078651 |
|  | Dwg. Size: A4   | BOREHOLE LOG     |








| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY | TEST PIT NUMBER: TP02   |                              | PAGE 1 of 1     |                             |
|----------------|------|-------------------|-------------|-----------|---------|---|------------------------------|-----------------|-----------------------------|
| ID             | TYPE |                   |             |           |         | EXCAVATION DATES: 24/01/08  | EXCAVATOR TYPE: Tracked Case | CONTRACTOR: MSI | PIT DIMENSIONS: 2.5x0.5x3.5 |
|                |      |                   |             | 0.0       |         | <b>Made Ground</b><br>Loose dark brown silty sandy gravel. Gravel is subangular to angular.   |                              |                 | 0.0                         |
| PRIO_TP02_0.5m |      | *0.3ppm           |             |           |         | <b>Made Ground</b><br>Soft black ashy sandy gravel. Containing porcelain and plastics.  | NEC                          |                 |                             |
|                |      |                   |             | 1.0       |         | <b>Made Ground</b><br>Soft to firm brown sandy gravelly silt/clay. Gravel is subangular to angular.   | NEC<br>Moist                 |                 | 1.0                         |
| PRIO_TP02_1.5m |      | *0.2ppm           |             |           |         |   |                              |                 |                             |
|                |      |                   |             | 2.0       |         | <b>Gravelly CLAY</b><br>Firm grey brown sandy gravelly CLAY. Gravel is subangular to subrounded.  | NEC                          |                 | 2.0                         |
|                |      |                   |             | 3.0       |         | <b>Gravelly CLAY</b><br>Firm to stiff grey brown sandy gravelly CLAY. Gravel is subangular to subrounded. Containing frequent cobbles, subrounded to rounded. | NEC                          |                 | 3.0                         |
| PRIO_TP02_3.1m |      | *0.2ppm           |             |           |         |   |                              |                 |                             |
|                |      |                   |             | 4.0       |         | End of hole at 3.5m<br>Refusal on cobbles   |                              |                 | 4.0                         |
|                |      |                   |             | 5.0       |         |   |                              |                 | 5.0                         |

**LOCATION / NOTES:**

NEC = No evidence of contamination

**LEGEND**

-  Disturbed Sample
-  Undisturbed Sample
-  Suspected Asbestos Containing Material (ACM)
-  Groundwater Table
-  Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station

Location: Rathfarnham, Dublin

Client: ABB Ltd.



|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn: RR       | Ref: RR/EOH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Dwg. Size: A4   | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY | TEST PIT NUMBER: TP03  |                               | PAGE 1 of 1                  |
|----------------|------|-------------------|-------------|-----------|---------|--|-------------------------------|------------------------------|
| ID             | TYPE |                   |             |           |         | EXCAVATION DATES: 24/01/08   | EXCAVATOR TYPE : Tracked Case |                              |
|                |      |                   |             |           |         | CONTRACTOR : MSI   |                               | PIT DIMENSIONS : 2.5x0.5x3.0 |
|                |      |                   |             |           |         | LOGGED BY : RR   |                               |                              |
|                |      |                   |             |           |         | CHECKED BY : SM  |                               |                              |
|                |      |                   |             |           |         | DESCRIPTION  | COMMENTS                      |                              |
| PRIO_TP03_0.4m |      | *0.2ppm           |             | 0.0       |         | <b>Made Ground</b><br>Loose dark brown silty sandy gravel  |                               | 0.0                          |
|                |      |                   |             |           |         | <b>Made Ground</b><br>Firm brown sandy gravelly silt/clay. Gravel is subangular to subrounded.   |                               |                              |
|                |      |                   |             | 1.0       |         | <b>Made Ground</b><br>Loose brown ashy sandy gravel  |                               | 1.0                          |
| PRIO_TP03_1.5m |      | *0.1ppm           |             |           |         | <b>Gravelly CLAY</b><br>Soft brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded. Containing frequent cobbles, subangular to subrounded. | Moist                         |                              |
|                |      |                   |             | 2.0       |         |  |                               | 2.0                          |
| PRIO_TP03_2.5m |      | *0.0ppm           |             | 3.0       |         |  | Wet                           | 3.0                          |
|                |      |                   |             | 4.0       |         | End of hole at 3.0m<br>Refusal on cobbles  |                               | 4.0                          |
|                |      |                   |             | 5.0       |         |  |                               | 5.0                          |

**LOCATION / NOTES:**

NEC = No evidence of contamination

Machine broke down  
Cobble lodged in hydraulics  
Leaking oil

**LEGEND**

- Disturbed Sample
- Undisturbed Sample
- Suspected Asbestos Containing Material (ACM)
- Groundwater Table
- Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station






Location: Rathfarnham, Dublin






Client: ABB Ltd.



|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn : RR      | Ref: RR/EOH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Drg. Size: A4   | BOREHOLE LOG     |

| SAMPLE |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP04      |                               | PAGE 1 of 1                  |
|--------|------|-------------------|-------------|-----------|---|----------------------------|-------------------------------|------------------------------|
| ID     | TYPE |                   |             |           |   | EXCAVATION DATES: 24/01/08 | EXCAVATOR TYPE : Tracked Case |                              |
|        |      |                   |             |           |   | CONTRACTOR : MSI           |                               | PIT DIMENSIONS : 2.5x0.5x2.8 |
|        |      |                   |             |           |   | LOGGED BY : RR             |                               |                              |
|        |      |                   |             |           |   | CHECKED BY : SM            |                               |                              |
|        |      |                   |             |           | DESCRIPTION   | COMMENTS                   |                               |                              |
|        |      |                   |             | 0.0       | <b>Made Ground</b><br>Loose dark brown silty sandy gravel   |                            |                               | 0.0                          |
|        |      |                   |             | 0.3       |   |                            |                               |                              |
|        |      |                   |             | 1.0       | <b>Made Ground</b><br>Loose light brown sandy gravel. Gravel is subangular to angular. Containing frequent brick fragments. | Moist                      | NEC                           | 1.0                          |
|        |      |                   |             | 1.6       |   |                            |                               |                              |
|        |      |                   |             | 2.0       | <b>Gravelly CLAY</b><br>Firm brown silty sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded.   |                            | NEC                           | 2.0                          |
|        |      |                   |             | 2.5       |   |                            |                               |                              |
|        |      |                   |             | 2.8       | <b>Gravelly CLAY</b><br>Stiff brown sandy gravelly CLAY. Gravel is subangular to subrounded.                                |                            | NEC                           | 2.8                          |
|        |      |                   |             | 3.0       | End of hole at 2.8m   |                            |                               | 3.0                          |
|        |      |                   |             | 3.5       | Refusal on cobbles  |                            |                               | 3.5                          |
|        |      |                   |             | 4.0       |   |                            |                               | 4.0                          |
|        |      |                   |             | 5.0       |   |                            |                               | 5.0                          |






|  |   |  |                  |
|--|---|--|------------------|
| <b>LOCATION / NOTES:</b><br>NEC = No evidence of contamination | <b>LEGEND</b><br> Disturbed Sample<br> Undisturbed Sample<br> Suspected Asbestos Containing Material (ACM)<br> Groundwater Table<br> Perched Water Table | <b>TEST PIT LOG</b>  |                  |
|  |   | Job Title: Decommissioning of Retail Service Station<br>Location: Rathfarnham, Dublin<br>Client: ABB ltd |                  |
| <b>URS</b>   |   | App'd: SES   | Date: Feb 2008   |
|  |   | Drawn: RR  | Ref: RR/EOH/DUB  |
|  |   | Scale: As Shown  | Job No: 45078651 |
|  |   | Drg. Size: A4  | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER  | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP05   | PAGE 1 of 1                   |
|----------------|------|-------------------|--|-----------|---|---|-------------------------------|
| ID             | TYPE |                   |  |           |   | EXCAVATION DATES: 24/01/08  | EXCAVATOR TYPE : Tracked Case |
|                |      |                   |  |           |   | CONTRACTOR : MSI  | PIT DIMENSIONS : 2.5x0.5x3.5  |
|                |      |                   |  |           |   | LOGGED BY : RR  |                               |
|                |      |                   |  |           |   | CHECKED BY : SM   |                               |
|                |      |                   |  |           |   | DESCRIPTION   | COMMENTS                      |
|                |      |                   |  | 0.0       |    | <b>Made Ground</b><br>Loose dark brown silty sandy gravel   | 0.0<br>NEC                    |
| PRIO_TP05_0.9m |      | *0.3ppm           |  | 1.0       |    | <b>Made Ground</b><br>Soft brownsandy gravelly silt/clay  | 1.0<br>Moist                  |
| PRIO_TP05_1.6m |      | *0.3ppm           |  | 2.0       |   | <b>Gravelly CLAY</b><br>Soft brown sandy gravelly CLAY. Gravel is subangular to subrounded. Containing frequent cobbles, subrounded to rounded. | 2.0<br>NEC                    |
| PRIO_TP05_2.4m |      | *0.3ppm           |  Perched | 3.0       |  | <b>Clayey GRAVEL</b><br>Loose brown sandy clayey/silty GRAVEL. Sand is coarse. Gravel is subangular to subrounded.                              | 3.0<br>Wet                    |
| PRIO_TP05_3.1m |      | *0.0ppm           |  | 4.0       |   | Cobbles at 3.0m Subangular to subrounded.   |                               |
|                |      |                   |  | 5.0       |   | End of hole at 3.5m<br>Refusal on cobbles   |                               |

**LOCATION / NOTES:**

NEC = No evidence of contamination

**LEGEND**




-  Disturbed Sample
-  Undisturbed Sample
-  Suspected Asbestos Containing Material (ACM)
-  Groundwater Table
-  Perched Water Table

**TEST PIT LOG**






Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.



|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn: RR       | Ref: RR/EOH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Drg. Size: A4   | BOREHOLE LOG     |


| SAMPLE                      |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY  | TEST PIT NUMBER: TP06   |                               | PAGE 1 of 1 |
|-----------------------------|------|-------------------|-------------|-----------|--|---|-------------------------------|-------------|
| ID                          | TYPE |                   |             |           |  | EXCAVATION DATES: 25/01/08  | EXCAVATOR TYPE : Tracked Case |             |
|                             |      |                   |             |           |  | DESCRIPTION   |                               | COMMENTS    |
| PRIO_TP06_0.5m<br>(Shallow) |      | *0.2ppm           |             | 0.0       |   | <b>Made Ground</b><br>Loose dark brown silty sandy gravel   | NEC                           | 0.0         |
| PRIO_TP06_1.5m<br>(Deep)    |      | *0.2ppm           |             | 1.0       |   | <b>Made Ground</b><br>Soft brown slightly gravelly sandy clay. Sand is fine to medium coarse. Gravel is subangular to subrounded.   | Moist                         | 1.0         |
| PRIO_TP06_2.9m<br>(Deep)    |      | *0.3ppm           |             | 2.0       |  | <b>Gravelly CLAY</b><br>Soft grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded. Containing frequent cobbles 40-60cm, subangular to subrounded. | Dry<br>NEC                    | 2.0         |
| PRIO_TP06_3.6m<br>(Deep)    |      | *0.2ppm           |             | 3.0       |  |   |                               | 3.0         |
|                             |      |                   |             | 4.0       |  | End of hole at 3.8m<br>Refusal on cobbles   |                               | 4.0         |
|                             |      |                   |             | 5.0       |  |   |                               | 5.0         |

**LOCATION / NOTES:**  
 NEC = No evidence of contamination  
 Culvert encountered at 0.7m. Shallow sample (0.5m) taken. Test pit moved 2.5m north where remaining samples were taken




- LEGEND**
-  Disturbed Sample
  -  Undisturbed Sample
  -  Suspected Asbestos Containing Material (ACM)
  -  Groundwater Table
  -  Perched Water Table

**TEST PIT LOG**






Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd

|  |                 |                  |
|--|-----------------|------------------|
|  | App'd: SES      | Date: Feb 2008   |
|  | Drawn : RR      | Ref: RR/EOH/DUB  |
|  | Scale: As Shown | Job No: 45078651 |
|  | Drg Size: A4    | BOREHOLE LOG     |




| SAMPLE         |      | PID READING (ppm) | GROUNDWATER       | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP07      | PAGE 1 of 1                   |     |
|----------------|------|-------------------|-------------------|-----------|---|----------------------------|-------------------------------|-----|
| ID             | TYPE |                   |                   |           |   | EXCAVATION DATES: 25/01/08 | EXCAVATOR TYPE : Tracked Case |     |
|                |      |                   |                   |           |   | CONTRACTOR : MSI           | PIT DIMENSIONS : 2.5x0.5x3.2  |     |
|                |      |                   |                   |           |   | LOGGED BY : RR             |                               |     |
|                |      |                   |                   |           |   | CHECKED BY : SM            |                               |     |
|                |      |                   |                   |           |   | DESCRIPTION                | COMMENTS                      |     |
| PRIO_TP07_0.5m |      | *0.1ppm           | Seepage Northeast | 0.0       |  <b>Made Ground</b><br>Loose dark brown silty sandy gravel. Cotains angular cobbles, brick and timber.         |                            | 0.0                           |     |
|                |      |                   |                   | 1.0       |   |                            | Moist                         |     |
| PRIO_TP07_1.8m |      | *0.1ppm           |                   | 2.0       |  <b>Made Ground</b><br>Soft brown fine slightly gravelly sandy clay. Contains large angular cobbles.          |                            | Moist                         | 2.0 |
|                |      |                   |                   | 3.0       |   |                            | Moist                         |     |
| PRIO_TP07_2.5m |      | *0.1ppm           |                   |           |  <b>Sandy CLAY</b><br>Soft grey sandy CLAY. Sand is fine to coarse. Containing frequent muscovite fragments. |                            | 3.0                           |     |
|                |      |                   |                   |           |   |                            | Moist                         | 3.0 |
| PRIO_TP07_3.1m |      | *0.1ppm           |                   | 3.0       |   |                            | Moist                         | 3.0 |
|                |      |                   |                   | 4.0       | End of hole at 3.2m   |                            |                               | 4.0 |
|                |      |                   |                   | 5.0       | Refusal on cobbles  |                            |                               | 5.0 |









**LOCATION / NOTES:**  
 NEC = No evidence of contamination

- LEGEND**
-  Disturbed Sample
  -  Undisturbed Sample
  -  Suspected Asbestos Containing Material (ACM)
  -  Groundwater Table
  -  Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.

|  |                 |                  |
|--|-----------------|------------------|
|  | App'd: SES      | Date: Feb 2008   |
|  | Drawn: RR       | Ref: RR/ECH/DUB  |
|  | Scale: As Shown | Job No: 45078651 |
|  | Dwg. Size: A4   | BOREHOLE LOG     |

| SAMPLE   |                 | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP08   |                               | PAGE 1 of 1  |                              |                |            |                |            |                 |                 |                  |               |              |
|--|-----------------|-------------------|-------------|-----------|---|---|-------------------------------|--|------------------------------|----------------|------------|----------------|------------|-----------------|-----------------|------------------|---------------|--------------|
| ID   | TYPE            |                   |             |           |   | EXCAVATION DATES: 25/01/08  | EXCAVATOR TYPE : Tracked Case | CONTRACTOR : MSI   | PIT DIMENSIONS : 2.5x0.5x3.7 | LOGGED BY : RR |            |                |            |                 |                 |                  |               |              |
|  |                 |                   |             |           |   | DESCRIPTION   |                               | COMMENTS   |                              |                |            |                |            |                 |                 |                  |               |              |
| PRIO_TP08_0.4m   |                 | *0.1ppm           |             | 0.0       |  <p><b>Made Ground</b><br/>Loose dark brown silty sandy gravel. Contains brick fragments.<br/><br/>Subrounded to rounded cobbles at 1.4m</p> |   |                               | 0.0  |                              |                |            |                |            |                 |                 |                  |               |              |
| PRIO_TP08_1.5m   |                 | *0.2ppm           |             | 1.0       |   |   |                               |  | 1.0                          |                |            |                |            |                 |                 |                  |               |              |
| PRIO_TP08_2.7m   |                 | *0.1ppm           |             | 2.0       |  <p><b>Sandy CLAY</b><br/>Soft grey black slightly gravelly sandy CLAY. Gravel is subrounded to rounded. Sand is fine to coarse.</p>        |   |                               | 2.0  |                              |                |            |                |            |                 |                 |                  |               |              |
| PRIO_TP08_3.5m   |                 | *0.2ppm           |             | 3.0       |   |   |                               |  | 3.0                          |                |            |                |            |                 |                 |                  |               |              |
|  |                 |                   |             | 4.0       |  <p><b>Sandy CLAY</b><br/>Soft black grey silty sandy CLAY</p>   |   |                               | 4.0  |                              |                |            |                |            |                 |                 |                  |               |              |
|  |                 |                   |             | 5.0       |   |   |                               |  | 5.0                          |                |            |                |            |                 |                 |                  |               |              |
| <p><b>LOCATION / NOTES:</b><br/>NEC = No evidence of contamination</p> |                 |                   |             |           |   | <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li> Disturbed Sample</li> <li> Undisturbed Sample</li> <li> Suspected Asbestos Containing Material (ACM)</li> <li> Groundwater Table</li> <li> Perched Water Table</li> </ul> |                               | <p><b>TEST PIT LOG</b></p> <p>Job Title: Decommissioning of Retail Service Station<br/>Location: Rathfarnham, Dublin<br/>Client: ABB Ltd.</p> <table border="1"> <tr> <td rowspan="4" style="font-size: 2em; font-weight: bold; text-align: center;">URS</td> <td>App'd: SES</td> <td>Date: Feb 2008</td> </tr> <tr> <td>Drawn : RR</td> <td>Ref: RR/EOH/DUB</td> </tr> <tr> <td>Scale: As Shown</td> <td>Job No: 45078651</td> </tr> <tr> <td>Dwg. Size: A4</td> <td>BOREHOLE LOG</td> </tr> </table> |                              | URS            | App'd: SES | Date: Feb 2008 | Drawn : RR | Ref: RR/EOH/DUB | Scale: As Shown | Job No: 45078651 | Dwg. Size: A4 | BOREHOLE LOG |
| URS  | App'd: SES      | Date: Feb 2008    |             |           |   |   |                               |  |                              |                |            |                |            |                 |                 |                  |               |              |
|  | Drawn : RR      | Ref: RR/EOH/DUB   |             |           |   |   |                               |  |                              |                |            |                |            |                 |                 |                  |               |              |
|  | Scale: As Shown | Job No: 45078651  |             |           |   |   |                               |  |                              |                |            |                |            |                 |                 |                  |               |              |
|  | Dwg. Size: A4   | BOREHOLE LOG      |             |           |   |   |                               |  |                              |                |            |                |            |                 |                 |                  |               |              |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY                                   | TEST PIT NUMBER: TP09   |                              | PAGE 1 of 1     |                             |
|----------------|------|-------------------|-------------|-----------|---|---|------------------------------|-----------------|-----------------------------|
| ID             | TYPE |                   |             |           |   | EXCAVATION DATES: 25/01/08  | EXCAVATOR TYPE: Tracked Case | CONTRACTOR: MSI | PIT DIMENSIONS: 2.5x0.5x3.7 |
| PRIO_TP09_0.4m |      | *0.1ppm           |             | 0.0       |   | <b>DESCRIPTION</b>  |                              | <b>COMMENTS</b> | 0.0                         |
|                |      |                   |             | 1.0       |   | <b>Made Ground</b><br>Loose dark brown silty sandy gravel. Contains frequent subangular to angular cobbles and brick fragments. | NEC                          |                 | 1.0                         |
| PRIO_TP09_1.9m |      | *0.1ppm           |             | 2.0       |   | <b>Sandy CLAY</b><br>Firm grey sandy CLAY. Sand is fine to coarse. Becoming softer with muscovite fragments.                    | Slightly moist               |                 | 2.0                         |
| PRIO_TP09_2.5m |      | *0.1ppm           |             | 3.0       |   | <b>Sandy SILT/CLAY</b><br>Soft brown sandy gravelly SILT/CLAY. Sand is fine to coarse. Gravel is subangular to subrounded.      | Organic odour                |                 | 3.0                         |
| PRIO_TP09_3.5m |      | *0.1ppm           |             | 4.0       | End of hole at 3.7m<br>Refusal on cobbles | NEC   |                              | 4.0             |                             |
|                |      |                   |             | 5.0       |   |   |                              | 5.0             |                             |

**LOCATION / NOTES:**

NEC = No evidence of contamination

Located adjacent to TP10

**LEGEND**

- Disturbed Sample
- Undisturbed Sample
- Suspected Asbestos Containing Material (ACM)
- Groundwater Table
- Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station

Location: Rathfarnham, Dublin

Client: ABB Ltd.








|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn: RR       | Ref: RR/EOH/DUB  |
| Scale: As Shown | Job No: 45076651 |
| Org. Size: A4   | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP10      |                               | PAGE 1 of 1      |   |
|----------------|------|-------------------|-------------|-----------|---|----------------------------|-------------------------------|------------------|---|
| ID             | TYPE |                   |             |           |   | EXCAVATION DATES: 25/01/08 | EXCAVATOR TYPE : Tracked Case | CONTRACTOR : MSI | PIT DIMENSIONS : 2.5x0.5x4.0              |
| PRIO_TP10_0.4m |      | *0.1ppm           |             | 0.0       | <b>Made Ground</b><br>Loose dark brown silty sandy gravel. Contains frequent subangular to angular cobbles and brick fragments. | DESCRIPTION<br>COMMENTS    |                               | 0.0              |   |
| PRIO_TP10_1.5m |      | *0.1ppm           |             | 1.0       |   |                            |                               |                  | NEC<br>Slightly moist                     |
| PRIO_TP10_2.5m |      | *0.2ppm           |             | 2.0       | <b>Sandy CLAY</b><br>Firm grey sandy CLAY. Sand is fine to coarse.<br>Becoming softer with muscovite fragments.                 | DESCRIPTION<br>COMMENTS    |                               | 2.0              |   |
| PRIO_TP10_3.5m |      | *0.1ppm           |             | 3.0       |   |                            |                               |                  | Organic odour<br>NEC                      |
|                |      |                   |             | 4.0       | <b>Sandy SILT/CLAY</b><br>Soft brown sandy gravelly SILT/CLAY. Sand is fine to coarse. Gravel is subangular to subrounded.      | DESCRIPTION<br>COMMENTS    |                               | 4.0              |   |
|                |      |                   |             | 5.0       |   |                            |                               |                  | End of hole at 4.0m<br>Refusal on cobbles |

**LOCATION / NOTES:**

NEC = No evidence of contamination  
 Located adjacent to TP09

**LEGEND**

-  Disturbed Sample
-  Undisturbed Sample
-  Suspected Asbestos Containing Material (ACM)
-  Groundwater Table
-  Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.








|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn : RR      | Ref: RRVCH/DUB   |
| Scale: As Shown | Job No. 45078651 |
| Dwg. Size: A4   | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY | TEST PIT NUMBER: TP11   |                              | PAGE 1 of 1     |                             |
|----------------|------|-------------------|-------------|-----------|---------|---|------------------------------|-----------------|-----------------------------|
| ID             | TYPE |                   |             |           |         | EXCAVATION DATES: 25/01/08  | EXCAVATOR TYPE: Tracked Case | CONTRACTOR: MSI | PIT DIMENSIONS: 2.5x0.5x3.7 |
|                |      |                   |             | 0.0       |         | <b>Made Ground</b><br>Loose brown silty sandy gravel. Contains brick and scrap metal.   |                              |                 | 0.0                         |
| PRIO_TP11_0.5m |      | *0.0ppm           |             |           |         |   |                              | NEC             |                             |
|                |      |                   |             | 1.0       |         | <b>Concrete</b><br><b>Made Ground</b><br>Loose brown silty sandy gravel. Contains brick and scrap metal.  |                              |                 | 1.0                         |
| PRIO_TP11_1.5m |      | *0.1ppm           |             |           |         |   |                              | NEC             |                             |
|                |      |                   |             | 2.0       |         | <b>Made Ground</b><br>Soft to firm light brown sandy gravelly clay. Sand is fine to coarse. Gravel is subrounded to subangular. Contains few brick fragments. |                              |                 |                             |
|                |      |                   |             |           |         | <b>Sandy CLAY</b><br>Soft grey black sandy CLAY. Sand is fine to coarse.  |                              |                 | 2.0                         |
| PRIO_TP11_2.5m |      | *0.1ppm           |             |           |         |   |                              | NEC             |                             |
|                |      |                   |             | 3.0       |         | <b>Gravelly CLAY</b><br>Firm brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded.   |                              |                 | 3.0                         |
| PRIO_TP11_3.5m |      | *0.1ppm           |             |           |         |   |                              | NEC             |                             |
|                |      |                   |             | 4.0       |         | End of hole at 3.7m<br>Refusal on cobbles   |                              |                 | 4.0                         |
|                |      |                   |             | 5.0       |         |   |                              |                 | 5.0                         |

**LOCATION / NOTES:**

NEC = No evidence of contamination

**LEGEND**

-  Disturbed Sample
-  Undisturbed Sample
-  Suspected Asbestos Containing Material (ACM)
-  Groundwater Table
-  Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.



|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn: RR       | Ref: RR/EQH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Dwg. Size: A4   | BOREHOLE LOG     |



TEST PIT NUMBER: TP12

EXCAVATION DATES: 25/01/08

EXCAVATOR TYPE : Tracked Case

CONTRACTOR : MSI

PIT DIMENSIONS : 2.5x0.5x3.7

LOGGED BY : RR






CHECKED BY : SM

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | DESCRIPTION     | COMMENTS |
|----------------|------|-------------------|-------------|-----------|---|-----------------|----------|
| ID             | TYPE |                   |             |           |   |                 |          |
| PRIO_TP12_0.5m |      | *0.1ppm           |             | 0.0       | <b>Made Ground</b><br>Loose brown silty sandy gravel  | NEC             | 0.0      |
|                |      |                   |             | 1.0       | <b>Concrete</b><br><b>Made Ground</b><br>Firm brown sandy gravelly clay. Sand is fine to coarse. Gravel is angular. Containing glass and brick fragments. | NEC<br>Wet      | 1.0      |
| PRIO_TP12_2.0m |      | *0.1ppm           |             | 2.0       | <b>Sandy CLAY</b><br>Firm grey sandy CLAY. Sand is fine.  | NEC             | 2.0      |
| PRIO_TP12_3.0m |      | *0.1ppm           |             | 3.0       | <b>Gravelly CLAY</b><br>Firm brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded.                                       | NEC<br>Very wet | 3.0      |
| PRIO_TP12_3.5m |      | *0.1ppm           |             | 4.0       | <b>Sandy GRAVEL</b><br>Loose grey silty/clayey sandy GRAVEL. Sand is fine to coarse. Gravel is rounded.   | NEC             | 4.0      |
|                |      |                   |             | 4.0       | End of hole at 3.6m   |                 | 4.0      |
|                |      |                   |             | 5.0       | Refusal on cobbles  |                 | 5.0      |

LOCATION / NOTES:

NEC = No evidence of contamination

LEGEND

-  Disturbed Sample
-  Undisturbed Sample
-  Suspected Asbestos Containing Material (ACM)
-  Groundwater Table
-  Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station

Location: Rathfarnham, Dublin

Client: ABB Ltd.



App'd: SES Date: Feb 2008

Drawn: RR Ref: RR/EOH/DUB

Scale: As Shown Job No: 4507865 f






Drg Size: A4 BOREHOLE LOG

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY | TEST PIT NUMBER: TP13  |                               | PAGE 1 of 1      |                              |
|----------------|------|-------------------|-------------|-----------|---------|--|-------------------------------|------------------|------------------------------|
| ID             | TYPE |                   |             |           |         | EXCAVATION DATES: 25/01/08   | EXCAVATOR TYPE : Tracked Case | CONTRACTOR : MSI | PIT DIMENSIONS : 2.5x0.5x2.7 |
|                |      |                   |             | 0.0       |         | <b>Made Ground</b><br>Loose brown silty sandy gravel. Containing frequent brick fragments.   |                               |                  | 0.0                          |
| PRIO_TP13_0.7m |      | *0.1ppm           |             | 1.0       |         | <b>Concrete</b>  |                               |                  |                              |
|                |      |                   |             | 1.0       |         | <b>Made Ground</b><br>Loose brown silty sandy gravel. Sand is fine to coarse. Gravel is subangular to angular. Containing granite cobbles. | NEC                           |                  | 1.0                          |
| PRIO_TP13_1.5m |      | *0.1ppm           |             | 2.0       |         | <b>Sandy CLAY</b><br>Soft to firm grey black sandy CLAY  | NEC                           |                  | 2.0                          |
|                |      |                   |             | 2.0       |         |  |                               |                  |                              |
| PRIO_TP13_2.5m |      | *0.1ppm           |             | 3.0       |         | <b>Sandy CLAY</b><br>Loose brown gravelly sandy CLAY. Gravel is rounded. Containing frequent cobbles, subrounded to rounded.               | NEC                           |                  | 3.0                          |
|                |      |                   |             | 3.0       |         | End of hole at 2.7m  |                               |                  | 3.0                          |
|                |      |                   |             | 4.0       |         | Refusal on large boulder/solid surface   |                               |                  | 4.0                          |
|                |      |                   |             | 5.0       |         |  |                               |                  | 5.0                          |

**LOCATION / NOTES:**

NEC = No evidence of contamination

**LEGEND**





-  Disturbed Sample
-  Undisturbed Sample
-  Suspected Asbestos Containing Material (ACM)
-  Groundwater Table
-  Perched Water Table







**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.



|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn: RR       | Ref: RR/EQH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Dwg. Size: A4   | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP14   |                              | PAGE 1 of 1 |
|----------------|------|-------------------|-------------|-----------|---|---|------------------------------|-------------|
| ID             | TYPE |                   |             |           |   | EXCAVATION DATES: 28/01/08  | EXCAVATOR TYPE: Tracked Case |             |
|                |      |                   |             |           |   | DESCRIPTION   |                              | COMMENTS    |
| PRIO_TP14_0.5m |      | *0.3ppm           |             | 0.0       |    | <b>Made Ground</b><br>Loose brown silty sandy gravel. Containing concrete           |                              | 0.0         |
| PRIO_TP14_1.9m |      | *0.2ppm           |             | 1.0       |    | <b>Made Ground</b><br>Soft brown sandy gravelly clay. Containing brick fragments.   | NEC                          | 1.0         |
| PRIO_TP14_2.6m |      | *0.3ppm           |             | 2.0       |    | <b>Gravelly CLAY</b><br>Soft brown sandy gravelly CLAY. Containing frequent cobbles | NEC                          | 2.0         |
| PRIO_TP14_3.5m |      | *0.3ppm           |             | 3.0       |  |   | NEC                          | 3.0         |
|                |      |                   |             | 4.0       |   | End of hole at 3.7m<br><br>Cobbles continue to cave into hole                       |                              | 4.0         |
|                |      |                   |             | 5.0       |   |   |                              | 5.0         |

|  |   |  |                  |
|--|---|--|------------------|
| <b>LOCATION / NOTES:</b><br>NEC = No evidence of contamination                       | <b>LEGEND</b><br> Disturbed Sample<br> Undisturbed Sample<br> Suspected Asbestos Containing Material (ACM)<br> Groundwater Table<br> Perched Water Table | <b>TEST PIT LOG</b>  |                  |
|  |   | Job Title: Decommissioning of Retail Service Station<br>Location: Rathfamham, Dublin<br>Client: ABB Ltd. |                  |
|  |   | App'd: SES   | Date: Feb 2008   |
|  |   | Drawn: RR  | Ref: RR/EOH/DUB  |
|  |   | Scale: As Shown  | Job No: 45078651 |
|  |   | Drg. Size: A4  | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY | TEST PIT NUMBER: TP15  |                               | PAGE 1 of 1  |
|----------------|------|-------------------|-------------|-----------|---------|--|-------------------------------|--------------|
| ID             | TYPE |                   |             |           |         | EXCAVATION DATES: 28/01/08   | EXCAVATOR TYPE : Tracked Case |              |
|                |      |                   |             |           |         | DESCRIPTION  |                               | COMMENTS     |
| PRIO_TP15_0.4m |      | *0.1ppm           |             | 0.0       |         | <b>Made Ground</b><br>Loose brown silty sandy gravel   | 0.0                           | NEC          |
|                |      |                   |             |           |         | <b>Made Ground</b><br>Loose crushed brick  |                               | NEC          |
|                |      |                   |             |           |         | <b>Made Ground</b><br>Loose brown silty sandy gravel. Containing brick fragments.  |                               | NEC          |
| PRIO_TP15_1.5m |      | *0.1ppm           |             | 1.0       |         | <b>Made Ground</b><br>Soft brown black sandy gravelly clay. Sand is fine to coarse. Gravel is subangular to subrounded.  | 1.0                           | NEC<br>Moist |
|                |      |                   |             |           |         | <b>Gravelly CLAY</b><br>Soft black grey sandy gravelly CLAY. Gravel is subangular to subrounded.                         |                               | NEC          |
| PRIO_TP15_2.8m |      | *0.1ppm           |             | 2.0       |         | <b>Clayey GRAVEL</b><br>Soft to firm brown sandy clayey GRAVEL. Sand is fine to coarse. Gravel is subrounded to rounded. | 2.0                           | NEC          |
|                |      |                   |             |           |         | <b>Sandy CLAY</b><br>Soft to firm brown sandy CLAY.  |                               | NEC          |
| PRIO_TP15_3.5m |      | *0.1ppm           |             | 3.0       |         | <b>Gravelly CLAY</b><br>Stiff black gravelly CLAY. Gravel is subangular to subrounded.                                   | 3.0                           | NEC          |
| PRIO_TP15_4.0m |      | *0.1ppm           |             | 4.0       |         | <b>Gravelly CLAY</b><br>Stiff black gravelly CLAY. Gravel is subangular to subrounded.                                   | 4.0                           | NEC          |
|                |      |                   |             |           |         | End of hole at 4.0m  |                               |              |
|                |      |                   |             | 5.0       |         |  | 5.0                           |              |

**LOCATION / NOTES:**

NEC = No evidence of contamination

**LEGEND**

- Disturbed Sample
- Undisturbed Sample
- Suspected Asbestos Containing Material (ACM)
- Groundwater Table
- Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.



|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2006   |
| Drawn : RR      | Ref: RR/EOH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Dwg Size: A4    | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY | TEST PIT NUMBER: TP16  |                               | PAGE 1 of 1                  |
|----------------|------|-------------------|-------------|-----------|---------|--|-------------------------------|------------------------------|
| ID             | TYPE |                   |             |           |         | EXCAVATION DATES: 15/02/08   | EXCAVATOR TYPE : Tracked Case |                              |
|                |      |                   |             |           |         | CONTRACTOR : MSI   |                               | PIT DIMENSIONS : 2.5x0.5x4.0 |
|                |      |                   |             |           |         | LOGGED BY : RR   |                               |                              |
|                |      |                   |             |           |         | CHECKED BY : SM  |                               |                              |
|                |      |                   |             |           |         | DESCRIPTION  | COMMENTS                      |                              |
|                |      |                   |             | 0.0       |         | <b>Made Ground</b><br>Loose brown sandy gravel with concrete blocks and ceramics.      | NEC                           | 0.0                          |
| PRIO_TP16_0.5m |      | *0.0ppm           |             |           |         |  |                               |                              |
|                |      |                   |             | 1.0       |         | <b>Concrete slab</b>   |                               | 1.0                          |
|                |      |                   |             |           |         |  |                               |                              |
| PRIO_TP16_1.5m |      | *0.0ppm           |             |           |         | <b>Made Ground</b><br>Loose brown gravelly sand. Gravel is angular                     | NEC                           |                              |
|                |      |                   |             | 2.0       |         | <b>Gravelly CLAY</b><br>Firm brown gravelly CLAY. Gravel is subangular to subrounded.  |                               | 2.0                          |
|                |      |                   |             |           |         |  |                               |                              |
| PRIO_TP16_2.5m |      | *0.0ppm           |             |           |         |  | NEC                           |                              |
|                |      |                   |             | 3.0       |         | <b>Gravelly CLAY</b><br>Stiff black gravelly CLAY. Gravel is subangular to subrounded. | NEC                           | 3.0                          |
|                |      |                   |             |           |         |  |                               |                              |
| PRIO_TP16_3.3m |      | *0.0ppm           |             |           |         | End of hole at 3.3m  |                               |                              |
|                |      |                   |             | 4.0       |         |  |                               | 4.0                          |
|                |      |                   |             | 5.0       |         |  |                               | 5.0                          |






| LOCATION / NOTES:                  | LEGEND   | TEST PIT LOG  |                  |
|------------------------------------|--|---|------------------|
| NEC = No evidence of contamination | Disturbed Sample<br>Undisturbed Sample<br>Suspected Asbestos Containing Material (ACM)<br>Groundwater Table<br>Perched Water Table | Job Title: Decommissioning of Retail Service Station<br>Location: Rathfarnham, Dublin<br>Client: ABB Ltd. |                  |
|                                    |  | App'd: SES  | Date: Feb 2008   |
|                                    |  | Drawn : RR  | Ref: RR/ECH/DUB  |
|                                    |  | Scale: As Shown   | Job No: 45078651 |
|                                    |  | Drg Size: A4  | BOREHOLE LOG     |





| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP17      |                               | PAGE 1 of 1 |
|----------------|------|-------------------|-------------|-----------|---|----------------------------|-------------------------------|-------------|
| ID             | TYPE |                   |             |           |   | EXCAVATION DATES: 15/02/08 | EXCAVATOR TYPE : Tracked Case |             |
|                |      |                   |             |           |   | DESCRIPTION                | COMMENTS                      |             |
| PRIO_TP17_0.5m |      | *0.0ppm           |             | 0.0       | <b>Made Ground</b><br>Loose brown gravelly sand with concrete blocks and ceramics.                            |                            | NEC                           | 0.0         |
|                |      |                   |             |           | <b>Concrete slab</b>  |                            | Wet                           |             |
| PRIO_TP17_1.5m |      | *0.0ppm           |             | 1.0       | <b>Made Ground</b><br>Soft to firm brown gravelly clay. Gravel is subangular to subrounded. Containing brick. |                            | NEC                           | 1.0         |
| PRIO_TP17_1.5m |      | *0.0ppm           |             | 1.5       | <b>Made Ground</b><br>Soft black silty/clayey gravel. Containing brick fragments.                             |                            | NEC<br>Moist                  | 1.5         |
| PRIO_TP17_2.6m |      | *0.0ppm           |             | 2.0       | <b>Gravelly CLAY</b><br>Firm brown gravelly CLAY. Gravel is angular to subangular.                            |                            | NEC                           | 2.0         |
| PRIO_TP17_3.5m |      | *0.0ppm           |             | 3.0       |   |                            |                               | 3.0         |
| PRIO_TP17_3.9m |      | *0.0ppm           |             | 4.0       | <b>Gravelly CLAY</b><br>Stiff brown to black gravelly CLAY. Gravel is subangular to subrounded.               |                            | NEC                           | 4.0         |
|                |      |                   |             | 4.3       | End of hole at 3.9m   |                            |                               | 4.3         |
|                |      |                   |             | 5.0       |   |                            |                               | 5.0         |

**LOCATION / NOTES:**  
NEC = No evidence of contamination

- LEGEND**
-  Disturbed Sample
  -  Undisturbed Sample
  -  Suspected Asbestos Containing Material (ACM)
  -  Groundwater Table
  -  Perched Water Table

**TEST PIT LOG**






Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.

**URS**

|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn: RR       | Rel: RR/EOH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Dwg. Size: A4   | BOREHOLE LOG     |


| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY | TEST PIT NUMBER: TP18   |                               | PAGE 1 of 1 |
|----------------|------|-------------------|-------------|-----------|---------|---|-------------------------------|-------------|
| ID             | TYPE |                   |             |           |         | EXCAVATION DATES: 15/02/08  | EXCAVATOR TYPE : Tracked Case |             |
|                |      |                   |             |           |         | DESCRIPTION   |                               | COMMENTS    |
|                |      |                   |             | 0.0       |         | <b>Made Ground</b><br>Loose brown gravelly sand. Sand is fine to coarse.  |                               | 0.0         |
| PRIO_TP18_0.5m |      | *0.0ppm           |             | 0.5       |         | <b>Made Ground</b><br>Soft to firm brown clayey gravel. Containing brick fragments.<br><br>Concrete fragments at 1.1m | Wet                           | 0.5         |
| PRIO_TP18_1.5m |      | *0.0ppm           |             | 1.5       |         |   | NEC                           | 1.0         |
|                |      |                   |             | 2.0       |         | <b>Gravelly CLAY</b><br>Firm brown gravelly CLAY. Gravel is subangular to subrounded.                                 | Dry                           | 2.0         |
| PRIO_TP18_3.0m |      | *0.0ppm           |             | 3.0       |         |   | NEC                           | 3.0         |
| PRIO_TP18_3.4m |      | *0.0ppm           |             | 3.4       |         | End of hole at 3.4m   |                               | 3.4         |
|                |      |                   |             | 4.0       |         |   |                               | 4.0         |
|                |      |                   |             | 5.0       |         |   |                               | 5.0         |




**LOCATION / NOTES:**  
NEC = No evidence of contamination

- LEGEND**
-  Disturbed Sample
  -  Undisturbed Sample
  -  Suspected Asbestos Containing Material (ACM)
  -  Groundwater Table
  -  Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.






|  |                 |                  |
|--|-----------------|------------------|
|  | App'd: SES      | Date: Feb 2008   |
|  | Drawn: RR       | Ref: RR/EOH/DUB  |
|  | Scale: As Shown | Job No. 45078651 |
|  | Org. Size: A4   | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY  | TEST PIT NUMBER: TP19  |                               | PAGE 1 of 1                  |
|----------------|------|-------------------|-------------|-----------|--|--|-------------------------------|------------------------------|
| ID             | TYPE |                   |             |           |  | EXCAVATION DATES: 15/02/08   | EXCAVATOR TYPE : Tracked Case |                              |
|                |      |                   |             |           |  | LOGGED BY : RR   |                               | PIT DIMENSIONS : 2.5x0.5x4.0 |
|                |      |                   |             |           |  | CHECKED BY : SM  |                               |                              |
|                |      |                   |             |           |  | DESCRIPTION  | COMMENTS                      |                              |
| PRIO_TP19_0.5m |      | *0.0ppm           |             | 0.0       |   | <b>Made Ground</b><br>Loose brown sandy gravel. Sand is fine to coarse. Containing shale, brick and porcelain. | NEC                           | 0.0                          |
| PRIO_TP19_1.7m |      | *0.0ppm           |             | 1.0       |   | <b>Made Ground</b><br>Firm brown sandy gravelly CLAY (possibly reworked). Gravel is subangular to subrounded.  | NEC                           | 1.0                          |
| PRIO_TP19_2.4m |      | *0.0ppm           |             | 2.0       |  | <b>Gravelly CLAY</b><br>Stiff brown sandy gravelly CLAY. Gravel is subangular to subrounded.                   | Wet<br>NEC                    | 2.0                          |
| PRIO_TP19_3.0m |      | *0.0ppm           |             | 3.0       |  | End of hole at 3.0m<br>Refusal on hard surface.  |                               | 3.0                          |
|                |      |                   |             | 4.0       |  |  |                               | 4.0                          |
|                |      |                   |             | 5.0       |  |  |                               | 5.0                          |

**LOCATION / NOTES:**

NEC = No evidence of contamination

**LEGEND**

-  Disturbed Sample
-  Undisturbed Sample
-  Suspected Asbestos Containing Material (ACM)
-  Groundwater Table
-  Perched Water Table

**TEST PIT LOG**






Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.



|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn : RR      | Ref: RR/EOH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Dwg. Size: A4   | BOREHOLE LOG     |


| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY  | TEST PIT NUMBER: TP20      |  | PAGE 1 of 1                   |  |
|----------------|------|-------------------|-------------|-----------|--|----------------------------|--|-------------------------------|--|
| ID             | TYPE |                   |             |           |  | EXCAVATION DATES: 18/02/08 |  | EXCAVATOR TYPE : Tracked Case |  |
|                |      |                   |             |           |  | CONTRACTOR : MSI           |  | PIT DIMENSIONS : 2.5x0.5x4.0  |  |
|                |      |                   |             |           |  | LOGGED BY : RR             |  |                               |  |
|                |      |                   |             |           |  | CHECKED BY : SM            |  |                               |  |
|                |      |                   |             |           |  | DESCRIPTION                |  | COMMENTS                      |  |
| PRIO_TP20_0.5m |      | *0.0ppm           |             | 0.0       | <b>Tarmac</b><br><b>Made Ground</b><br>Stiff brown sandy gravelly clay. Containing compacted saw chips.<br><br>Brick fragments at 1.0m | NEC                        |  | 0.0                           |  |
| PRIO_TP20_1.5m |      | *0.0ppm           |             | 1.0       | <b>Gravelly CLAY</b><br>Stiff brown gravelly CLAY. Gravel is subrounded to rounded.<br><br>Cobble at 3.0m, 40cm.                       | Wet<br>Dry<br>NEC          |  | 1.0                           |  |
| PRIO_TP20_2.5m |      | *0.0ppm           |             | 2.0       |  |                            |  | 2.0                           |  |
| PRIO_TP20_3.5m |      | *0.0ppm           |             | 3.0       |  |                            |  | 3.0                           |  |
|                |      |                   |             | 4.0       | Refusal at 3.5m.<br><br>Hard surface.  |                            |  | 4.0                           |  |
|                |      |                   |             | 5.0       |  |                            |  | 5.0                           |  |

**LOCATION / NOTES:**  
 NEC = No evidence of contamination

- LEGEND**
-  Disturbed Sample
  -  Undisturbed Sample
  -  Suspected Asbestos Containing Material (ACM)
  -  Groundwater Table
  -  Perched Water Table






**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.

|  |                 |                  |
|--|-----------------|------------------|
|  | App'd: SES      | Date: Feb 2008   |
|  | Drawn : RR      | Ref. RR/EOH/DUB  |
|  | Scale: As Shown | Job No: 45078651 |
|  | Dwg. Size: A4   | BOREHOLE LOG     |


| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP21      |                              | PAGE 1 of 1 |
|----------------|------|-------------------|-------------|-----------|---|----------------------------|------------------------------|-------------|
| ID             | TYPE |                   |             |           |   | EXCAVATION DATES: 18/02/08 | EXCAVATOR TYPE: Tracked Case |             |
|                |      |                   |             |           |   | DESCRIPTION                | COMMENTS                     |             |
| PRIO_TP21_0.5m |      | *0.0ppm           |             | 0.0       | <b>Tarmac</b><br><b>Made Ground</b><br>Stiff grey to brown sandy gravelly clay. Containing brick fragments. |                            | NEC<br>Very dry              | 0.0         |
| PRIO_TP21_1.5m |      | *0.0ppm           |             | 1.0       | <b>Gravelly CLAY</b><br>Soft to firm brown gravelly CLAY. Gravel is subangular to subrounded.               |                            |                              | 1.0         |
| PRIO_TP21_2.5m |      | *0.0ppm           |             | 2.0       |   |                            | NEC                          | 2.0         |
|                |      |                   |             | 3.0       | End of hole at 2.7m<br>Refusal on hard surface/cobble.  |                            |                              | 3.0         |
|                |      |                   |             | 4.0       |   |                            |                              | 4.0         |
|                |      |                   |             | 5.0       |   |                            |                              | 5.0         |

**LOCATION / NOTES:**  
NEC = No evidence of contamination

- LEGEND**
-  Disturbed Sample
  -  Undisturbed Sample
  -  Suspected Asbestos Containing Material (ACM)
  -  Groundwater Table
  -  Perched Water Table

**TEST PIT LOG**






Job Title: Decommissioning of Retail Service Station  
 Location: Rathlamham, Dublin  
 Client: ABB Ltd.

|  |                 |                  |
|--|-----------------|------------------|
|  | App'd: SES      | Date: Feb 2008   |
|  | Drawn: RR       | Ref: RR/EOH/DJB  |
|  | Scale: As Shown | Job No. 45078651 |
|  | Dwg. Size: A4   | BOREHOLE LOG     |



| SAMPLE          |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP22      |          | PAGE 1 of 1                   |  |
|-----------------|------|-------------------|-------------|-----------|---|----------------------------|----------|-------------------------------|--|
| ID              | TYPE |                   |             |           |   | EXCAVATION DATES: 18/02/08 |          | EXCAVATOR TYPE : Tracked Case |  |
|                 |      |                   |             |           |   | CONTRACTOR : MSI           |          | PIT DIMENSIONS : 2.5x0.5x4.0  |  |
|                 |      |                   |             |           |   | LOGGED BY : RR             |          |                               |  |
| CHECKED BY : SM |      |                   |             |           |   |                            |          |                               |  |
|                 |      |                   |             |           |   | DESCRIPTION                | COMMENTS |                               |  |
| PRIO_TP22_0.5m  |      | *0.0ppm           |             | 0.0       | <b>Cobblelock</b><br>Loose coarse sand.<br><b>Concrete</b><br><b>Fuel pipes</b><br><b>Made Ground</b><br>Firm brown slightly gravelly sandy clay. | NEC                        |          | 0.0                           |  |
| PRIO_TP22_1.5m  |      | *0.0ppm           |             | 1.0       | <b>Gravelly CLAY</b><br>Stiff brown gravelly CLAY. Gravel is subangular to subrounded.  | NEC                        |          | 1.0                           |  |
| PRIO_TP22_3.1m  |      | *0.0ppm           |             | 3.0       | <b>Gravelly CLAY</b><br>Stiff black gravelly CLAY. Gravel is angular to subangular.<br><br>End of hole at 3.1m<br><br>Refusal on hard surface.    | NEC                        |          | 3.0                           |  |
|                 |      |                   |             | 4.0       |   |                            |          | 4.0                           |  |
|                 |      |                   |             | 5.0       |   |                            |          | 5.0                           |  |







**LOCATION / NOTES:**  
 NEC = No evidence of contamination

- LEGEND**
-  Disturbed Sample
  -  Undisturbed Sample
  -  Suspected Asbestos Containing Material (ACM)
  -  Groundwater Table
  -  Perched Water Table






**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.

|            |                 |                  |
|------------|-----------------|------------------|
| <b>URS</b> | App'd: SES      | Date: Feb 2008   |
|            | Drawn : RR      | Ref: RR/EOH/DUB  |
|            | Scale: As Shown | Job No: 45078651 |
|            | Org. Size: A4   | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP23   |                               | PAGE 1 of 1 |
|----------------|------|-------------------|-------------|-----------|---|---|-------------------------------|-------------|
| ID             | TYPE |                   |             |           |   | EXCAVATION DATES: 18/02/08  | EXCAVATOR TYPE : Tracked Case |             |
|                |      |                   |             |           |   | DESCRIPTION   | COMMENTS                      |             |
| PRIO_TP23_0.5m |      | *0.0ppm           |             | 0.0       |    | <b>Tarmac</b>   |                               | 0.0         |
|                |      |                   |             |           |    | <b>Made Ground</b><br>Dense clayey angular gravel.  | NEC                           |             |
|                |      |                   |             | 1.0       |    | <b>Made Ground</b><br>Firm brown sandy gravelly clay  | NEC                           | 1.0         |
| PRIO_TP23_1.5m |      | *0.0ppm           |             | 2.0       |    | <b>Gravelly CLAY</b><br>Firm brown gravelly CLAY. Gravel is subangular to subrounded.               | NEC                           | 2.0         |
| PRIO_TP23_2.5m |      | *0.0ppm           |             | 3.0       |    | <b>Gravelly CLAY</b><br>Soft to firm brown sandy gravelly CLAY. Gravel is subangular to subrounded. | Wet<br>Dry                    | 3.0         |
| PRIO_TP23_3.5m |      | *0.0ppm           |             | 4.0       |  | <b>Gravelly CLAY</b><br>Soft to firm brown sandy gravelly CLAY. Gravel is subangular to subrounded. | Wet<br>NEC                    | 4.0         |
|                |      |                   |             | 5.0       |   | End of hole at 3.6m<br>Refusal on cobbles.  |                               | 5.0         |







LOCATION / NOTES:  
NEC = No evidence of contamination

- LEGEND
-  Disturbed Sample
  -  Undisturbed Sample
  -  Suspected Asbestos Containing Material (ACM)
  -  Groundwater Table
  -  Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.

|  |                 |                  |
|--|-----------------|------------------|
|  | App'd: SES      | Date: Feb 2008   |
|  | Drawn: RR       | Ref: RR/EOH/DUB  |
|  | Scale: As Shown | Job No: 45078651 |
|  | Dwg. Size: A4   | BOREHOLE LOG     |

| SAMPLE   |      | PID READING (ppm) | GROUNDWATER | DEPTH (m)   | GEOLOGY | TEST PIT NUMBER: TP24   |  | PAGE 1 of 1      |                              |                |                 |  |
|--|------|-------------------|-------------|---|---------|---|--|------------------|------------------------------|----------------|-----------------|--|
| ID   | TYPE |                   |             |   |         | EXCAVATION DATES: 18/02/08  | EXCAVATOR TYPE : Tracked Case  | CONTRACTOR : MSI | PIT DIMENSIONS : 2.5x0.5x4.0 | LOGGED BY : RR | CHECKED BY : SM |  |
|  |      |                   |             | 0.0   |         | <b>Gravel</b>   |  | 0.0              | NEC                          |                |                 |  |
|  |      |                   |             |   |         | <b>Sand</b>   |  |                  | NEC                          |                |                 |  |
|  |      |                   |             |   |         | <b>Concrete, Pipes and Metal</b>  |  |                  | NEC                          |                |                 |  |
|  |      |                   |             |   |         | <b>Made Ground</b><br>Loose brown clayey sandy gravel. Gravel is subangular to angular.     |  |                  |                              |                |                 |  |
|  |      |                   |             | 1.0   |         | <b>Gravelly CLAY</b><br>Soft brown sandy gravelly CLAY. Gravel is subangular to subrounded. |  | 1.0              |                              |                |                 |  |
|  |      |                   |             | 2.0   |         |   |  | 2.0              | NEC                          |                |                 |  |
|  |      |                   |             | 3.0   |         |   |  | 3.0              | NEC                          |                |                 |  |
|  |      |                   |             |   |         | <b>Gravelly CLAY</b><br>Stiff black gravelly CLAY. Gravel is subangular to subrounded.      |  |                  |                              |                |                 |  |
|  |      |                   |             |   |         | End of hole at 3.1m   |  |                  |                              |                |                 |  |
|  |      |                   |             | 4.0   |         |   |  | 4.0              |                              |                |                 |  |
|  |      |                   |             | 5.0   |         |   |  | 5.0              |                              |                |                 |  |
| <b>LOCATION / NOTES:</b><br>NEC = No evidence of contamination |      |                   |             | <b>LEGEND</b><br> Disturbed Sample<br> Undisturbed Sample<br> Suspected Asbestos Containing Material (ACM)<br> Groundwater Table<br> Perched Water Table |         |   | <b>TEST PIT LOG</b><br>Job Title: Decommissioning of Retail Service Station<br>Location: Rathfarnham, Dublin<br>Client: ABB ltd.<br><br>App'd: SES      Date: Feb 2008<br>Drawn: RR      Ref: RR/EOH/DUB<br>Scale: As Shown      Job No: 45078651<br>Drg. Size: A4      BOREHOLE LOG |                  |                              |                |                 |  |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP25      |                              | PAGE 1 of 1     |                             |               |
|----------------|------|-------------------|-------------|-----------|---|----------------------------|------------------------------|-----------------|-----------------------------|---------------|
| ID             | TYPE |                   |             |           |   | EXCAVATION DATES: 18/02/08 | EXCAVATOR TYPE: Tracked Case | CONTRACTOR: MSI | PIT DIMENSIONS: 2.5x0.5x4.0 | LOGGED BY: RR |
| PRIO_TP25_0.5m |      | *0.0ppm           |             | 0.0       | <p><b>Cobblelock</b><br/><b>Sand</b><br/><b>Gravel</b><br/><b>Made Ground</b><br/>Soft to firm brown gravelly clay<br/>Natural at possibly 1.0m.</p> <p><b>Gravelly CLAY</b><br/>Stiff brown gravelly CLAY</p> <p>End of hole at 3.1m</p> |                            |                              |                 | 0.0                         |               |
| PRIO_TP25_1.5m |      | *0.0ppm           |             | 1.0       |   |                            |                              |                 |                             | 1.0           |
| PRIO_TP25_2.5m |      | *0.0ppm           |             | 2.0       |   |                            |                              |                 | NEC                         | 2.0           |
| PRIO_TP25_3.0m |      | *0.0ppm           |             | 3.0       |   |                            |                              |                 | NEC                         | 3.0           |
|                |      |                   |             | 4.0       |   |                            |                              |                 |                             | 4.0           |
|                |      |                   |             | 5.0       |   |                            |                              |                 | 5.0                         |               |

**LOCATION / NOTES:**

NEC = No evidence of contamination

**LEGEND**

- Disturbed Sample
- Undisturbed Sample
- Suspected Asbestos Containing Material (ACM)
- Groundwater Table
- Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station

Location: Rathfanham, Dublin

Client: ABB Ltd.








|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2006   |
| Drawn: RR       | Ref: RR/ECH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Dwg. Size: A4   | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY | TEST PIT NUMBER: TP26   |                               | PAGE 1 of 1 |
|----------------|------|-------------------|-------------|-----------|---------|---|-------------------------------|-------------|
| ID             | TYPE |                   |             |           |         | EXCAVATION DATES: 18/02/08  | EXCAVATOR TYPE : Tracked Case |             |
|                |      |                   |             |           |         | DESCRIPTION   | COMMENTS                      |             |
| PRIO_TP26_0.5m |      | *0.0ppm           |             | 0.0       |         | <b>Cobblelock</b><br><b>Sand</b><br><b>Concrete</b><br><b>Made Ground</b><br>Firm brown gravelly clay. Gravel is angular. Containing fabric, bricks, etc. | NEC<br>NEC<br>NEC             | 0.0         |
| PRIO_TP26_1.5m |      | *0.0ppm           |             | 1.0       |         | <b>Made Ground</b><br>Firm brown sandy gravelly clay. Gravel is subangular to angular. Containing timber and concrete blocks.                             | NEC                           | 1.0         |
| PRIO_TP26_2.5m |      | *0.0ppm           |             | 2.0       |         |   | NEC                           | 2.0         |
| PRIO_TP26_3.0m |      | *0.0ppm           |             | 3.0       |         | <b>Gravelly CLAY</b><br>Stiff brown-black gravelly CLAY. Gravel is subangular to subrounded.<br><b>End of hole at 3.1m</b>                                | NEC                           | 3.0         |
|                |      |                   |             | 4.0       |         |   |                               | 4.0         |
|                |      |                   |             | 5.0       |         |   |                               | 5.0         |

**LOCATION / NOTES:**

NEC = No evidence of contamination

**LEGEND**

-  Disturbed Sample
-  Undisturbed Sample
-  Suspected Asbestos Containing Material (ACM)
-  Groundwater Table
-  Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station

Location: Rathfarnham, Dublin

Client: ABB Ltd



|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn: RR       | Rel: RR/EOH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Drg. Size: A4   | BOREHOLE LOG     |








| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY | TEST PIT NUMBER: TP27   |                               | PAGE 1 of 1      |                              |
|----------------|------|-------------------|-------------|-----------|---------|---|-------------------------------|------------------|------------------------------|
| ID             | TYPE |                   |             |           |         | EXCAVATION DATES: 19/02/08  | EXCAVATOR TYPE : Tracked Case | CONTRACTOR : MSI | PIT DIMENSIONS : 2.5x0.5x4.0 |
|                |      |                   |             | 0.0       |         | <b>Cobblelock</b>   |                               | 0.0              | NEC                          |
|                |      |                   |             |           |         | <b>Sand</b>   |                               |                  | NEC                          |
|                |      |                   |             |           |         | <b>Concrete</b>   |                               |                  | NEC                          |
| PRIO_TP27_0.5m |      | *0.0ppm           |             |           |         | <b>Made Ground</b><br>Medium dense brown clayey sandy gravel. Containing cobbles, bricks and concrete blocks. |                               |                  |                              |
| PRIO_TP27_1.5m |      | *0.0ppm           |             | 1.0       |         |   |                               |                  | NEC                          |
| PRIO_TP27_2.5m |      | *0.0ppm           |             | 2.0       |         |   |                               |                  |                              |
| PRIO_TP27_3.0m |      | *0.0ppm           |             | 3.0       |         | <b>Gravelly CLAY</b><br>Firm brown sandy gravelly CLAY. Gravel is subangular to subrounded.                   |                               |                  | NEC                          |
|                |      |                   |             |           |         | End of hole at 3.0m<br>Refusal on cobbles   |                               |                  |                              |
|                |      |                   |             | 4.0       |         |   |                               |                  |                              |
|                |      |                   |             | 5.0       |         |   |                               |                  |                              |

**LOCATION / NOTES:**

NEC = No evidence of contamination

**LEGEND**

-  Disturbed Sample
-  Undisturbed Sample
-  Suspected Asbestos Containing Material (ACM)
-  Groundwater Table
-  Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham Dublin  
 Client: ABB Ltd.








|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn : RR      | Ref: RR/EOH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Drg. Size: A4   | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY  | TEST PIT NUMBER: TP28      |                              | PAGE 1 of 1                 |
|----------------|------|-------------------|-------------|-----------|--|----------------------------|------------------------------|-----------------------------|
| ID             | TYPE |                   |             |           |  | EXCAVATION DATES: 19/02/08 | EXCAVATOR TYPE: Tracked Case |                             |
|                |      |                   |             |           |  | CONTRACTOR: MSI            |                              | PIT DIMENSIONS: 2.5x0.5x4.0 |
|                |      |                   |             |           |  | LOGGED BY: RR              |                              |                             |
|                |      |                   |             |           |  | CHECKED BY: SM             |                              |                             |
|                |      |                   |             |           | DESCRIPTION  | COMMENTS                   |                              |                             |
|                |      |                   |             | 0.0       | <b>Cobblelock</b>  | NEC                        |                              | 0.0                         |
|                |      |                   |             |           | <b>Sand</b>  | NEC                        |                              |                             |
|                |      |                   |             |           | <b>Concrete</b>  | NEC                        |                              |                             |
| PRIO_TP28_0.5m |      | *0.0ppm           |             |           | <b>Made Ground</b><br>Loose brown sandy gravel. Gravel is angular                          |                            |                              |                             |
|                |      |                   |             | 1.0       | <b>Made Ground</b><br>Soft brown sandy gravelly clay. Gravel is subangular to angular.     |                            |                              | 1.0                         |
| PRIO_TP28_1.5m |      | *0.0ppm           |             |           |  | NEC                        |                              |                             |
|                |      |                   |             | 2.0       | <b>Gravelly CLAY</b><br>Firm brown gravelly CLAY. Gravel is subangular to subrounded.      |                            |                              | 2.0                         |
| PRIO_TP28_2.5m |      | *0.0ppm           |             |           |  | NEC                        |                              |                             |
|                |      |                   |             | 3.0       | End of hole at 2.7m<br><br>Insufficient space to dig deeper between concrete slab and BH01 |                            |                              | 3.0                         |
|                |      |                   |             | 4.0       |  |                            |                              | 4.0                         |
|                |      |                   |             | 5.0       |  |                            |                              | 5.0                         |

**LOCATION / NOTES:**

NEC = No evidence of contamination  
Concrete slab at 1.5m. Moved testpit 1.0m west.

**LEGEND**

-  Disturbed Sample
-  Undisturbed Sample
-  Suspected Asbestos Containing Material (ACM)
-  Groundwater Table
-  Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
Location: Rathfarnham, Dublin  
Client: ABB Ltd.








|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn: RR       | Ref: RR/EOH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Dwg. Size: A4   | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY  | TEST PIT NUMBER: TP29                       |                               | PAGE 1 of 1      |                              |
|----------------|------|-------------------|-------------|-----------|--|---|-------------------------------|------------------|------------------------------|
| ID             | TYPE |                   |             |           |  | EXCAVATION DATES: 19/02/08                  | EXCAVATOR TYPE : Tracked Case | CONTRACTOR : MSI | PIT DIMENSIONS : 2.5x0.5x4.0 |
|                |      |                   |             |           |  | DESCRIPTION                                 | COMMENTS                      |                  |                              |
| PRIO_TP29_0.5m |      | *0.0ppm           |             | 0.0       | <p><b>Cobblelock</b></p> <p><b>Sand</b></p> <p><b>Concrete</b></p> <p><b>Made Ground</b><br/>Loose brown sandy gravel. Gravel is angular</p> <p><b>Made Ground</b><br/>Firm brown sandy gravelly clay. Containing bricks, concrete, etc.</p> | <p>NEC</p> <p>NEC</p> <p>NEC</p> <p>NEC</p> | 0.0                           |                  |                              |
| PRIO_TP29_1.5m |      | *0.0ppm           |             | 1.0       | <p>Less brick and concrete at 1.2m</p> <p>Possibly natural at 2.8m</p>   | NEC   |                               |                  |                              |
| PRIO_TP29_2.5m |      | *0.0ppm           |             | 2.0       |  |   |                               |                  |                              |
| PRIO_TP29_3.0m |      | *0.0ppm           |             | 3.0       | <p>End of hole at 3.0m</p> <p>Refusal on cobbles</p>   |   |                               |                  |                              |
|                |      |                   |             | 4.0       |  |   |                               |                  |                              |
|                |      |                   |             | 5.0       |  |   |                               |                  |                              |

**LOCATION / NOTES:**

NEC = No evidence of contamination

**LEGEND**

-  Disturbed Sample
-  Undisturbed Sample
-  Suspected Asbestos Containing Material (ACM)
-  Groundwater Table
-  Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.



|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn : RR      | Ref: RR/ECH/DUB  |
| Scale: As Shown | Job No: 45078551 |
| Org. Size: A4   | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY | TEST PIT NUMBER: TP30   |                              | PAGE 1 of 1 |
|----------------|------|-------------------|-------------|-----------|---------|---|------------------------------|-------------|
| ID             | TYPE |                   |             |           |         | EXCAVATION DATES: 19/02/08  | EXCAVATOR TYPE: Tracked Case |             |
|                |      |                   |             |           |         | LOGGED BY: RR   | PIT DIMENSIONS: 2.5x0.5x4.0  |             |
|                |      |                   |             |           |         | CHECKED BY: SM  |                              |             |
|                |      |                   |             |           |         | DESCRIPTION   | COMMENTS                     |             |
|                |      |                   |             | 0.0       |         | <b>Tarmac</b>   | NEC                          | 0.0         |
|                |      |                   |             |           |         | <b>Gravel</b><br>Black angular gravel   | NEC                          |             |
| PRIO_TP30_0.5m |      | *0.0ppm           |             |           |         | <b>Made Ground</b><br>Loose brown sandy gravel. Gravel is angular. Containing brick fragments and glass.                    | NEC                          |             |
|                |      |                   |             | 1.0       |         | <b>Gravelly CLAY</b><br>Soft to firm brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded. | NEC                          | 1.0         |
| PRIO_TP30_1.5m |      | *0.0ppm           |             |           |         |   |                              |             |
|                |      |                   |             | 2.0       |         | End of hole at 2.0m<br>Pipe at 2.0m   |                              | 2.0         |
|                |      |                   |             | 3.0       |         |   |                              | 3.0         |
|                |      |                   |             | 4.0       |         |   |                              | 4.0         |
|                |      |                   |             | 5.0       |         |   |                              | 5.0         |

**LOCATION / NOTES:**

NEC = No evidence of contamination

Pipe at 1.0m. Moved testpit 1.0m south.

Pipe at 2.0m. End of hole.

**LEGEND**

- Disturbed Sample
- Undisturbed Sample
- Suspected Asbestos Containing Material (ACM)
- Groundwater Table
- Perched Water Table

**TEST PIT LOG**







Job Title: Decommissioning of Retail Service Station

Location: Rathfarnham, Dublin

Client: ABB Ltd.









|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn: RR       | Ref: RR/EOH/DUB  |
| Scale: As Shown | Job No: 45078651 |
| Drg. Size: A4   | BOREHOLE LOG     |






| SAMPLE   |      | PID READING (ppm) | GROUNDWATER | DEPTH (m)   | GEOLOGY | TEST PIT NUMBER: TP31  |   | PAGE 1 of 1     |                             |               |                |  |
|--|------|-------------------|-------------|---|---------|--|---|-----------------|-----------------------------|---------------|----------------|--|
| ID   | TYPE |                   |             |   |         | EXCAVATION DATES: 19/02/08   | EXCAVATOR TYPE: Tracked Case  | CONTRACTOR: MSI | PIT DIMENSIONS: 2.5x0.5x4.0 | LOGGED BY: RR | CHECKED BY: SM |  |
|  |      |                   |             | 0.0   |         | <b>Concrete</b>  | DESCRIPTION   | COMMENTS        | 0.0                         |               |                |  |
|  |      |                   |             |   |         | <b>Made Ground</b><br>Firm brown gravelly clay. Gravel is subangular to subrounded.                                      |   | NEC             |                             |               |                |  |
|  |      |                   |             | 1.0   |         | <b>Gravelly CLAY</b><br>Soft dark brown sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded. |   | NEC             | 1.0                         |               |                |  |
|  |      |                   |             | 2.0   |         | Less gravelly at 2.5m  |   | NEC             | 2.0                         |               |                |  |
|  |      |                   |             | 3.0   |         |  |   | NEC             | 3.0                         |               |                |  |
|  |      |                   |             | 4.0   |         | <b>Gravelly CLAY</b><br>Stiff black gravelly CLAY. Gravel is subangular to subrounded.                                   |   | NEC             | 4.0                         |               |                |  |
|  |      |                   |             | 5.0   |         | End of hole at 3.8m  |   |                 | 5.0                         |               |                |  |
| <b>LOCATION / NOTES:</b><br>NEC = No evidence of contamination |      |                   |             | <b>LEGEND</b><br> Disturbed Sample<br> Undisturbed Sample<br> Suspected Asbestos Containing Material (ACM)<br> Groundwater Table<br> Perched Water Table |         |  | <b>TEST PIT LOG</b><br>Job Title: Decommissioning of Retail Service Station<br>Location: Rathfarnham, Dublin<br>Client: ABB Ltd<br><br>App'd: SES Date: Feb 2008<br>Drawn: RR Ref: RR/EOH/DUB<br>Scale: As Shown Job No: 45078651<br>Drg. Size: A4 BOREHOLE LOG |                 |                             |               |                |  |








| SAMPLE |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY | TEST PIT NUMBER: TP32  |                               | PAGE 1 of 1 |
|--------|------|-------------------|-------------|-----------|---------|--|-------------------------------|-------------|
| ID     | TYPE |                   |             |           |         | EXCAVATION DATES: 19/02/08   | EXCAVATOR TYPE : Tracked Case |             |
|        |      |                   |             |           |         | CONTRACTOR : MSI   | PIT DIMENSIONS : 2.5x0.5x4.0  |             |
|        |      |                   |             |           |         | LOGGED BY : RR   |                               |             |
|        |      |                   |             |           |         | CHECKED BY : SM  |                               |             |
|        |      |                   |             | 0.0       |         | <b>Concrete</b>  |                               | 0.0         |
|        |      |                   |             |           |         | <b>Made Ground</b><br>Loose brown gravelly clay. Containing brick and concrete fragments.              | NEC                           |             |
|        |      |                   |             | 1.0       |         | <b>Sandy CLAY</b><br>Soft dark brown slightly gravelly sandy CLAY. Gravel is subangular to subrounded. | Moist                         | 1.0         |
|        |      |                   |             | 2.0       |         | <b>Gravelly CLAY</b><br>Stiff black gravelly CLAY. Gravel is subangular to subrounded.                 | NEC                           | 2.0         |
|        |      |                   |             | 3.0       |         | End of hole at 2.5m  | NEC                           | 3.0         |
|        |      |                   |             | 4.0       |         |  |                               | 4.0         |
|        |      |                   |             | 5.0       |         |  |                               | 5.0         |

|  |   |  |   |
|--|---|--|---|
| <b>LOCATION / NOTES:</b><br>NEC = No evidence of contamination | <b>LEGEND</b><br>Disturbed Sample<br>Undisturbed Sample<br>Suspected Asbestos Containing Material (ACM)<br>Groundwater Table<br>Perched Water Table | <b>TEST PIT LOG</b>  |   |
|  |   | Job Title: Decommissioning of Retail Service Station<br>Location: Rathfarnham, Dublin<br>Client: ABB Ltd |   |
|  |   |  | App'd: SES      Date: Feb 2008<br>Drawn : RR      Ref: RR/EOH/DUB<br>Scale: As Shown      Job No: 45078651<br>Drg. Size: A4      BOREHOLE LOG |

| SAMPLE  |      | PID READING (ppm) | GROUNDWATER | DEPTH (m)   | GEOLOGY  | TEST PIT NUMBER: TP33      |   | PAGE 1 of 1     |                             |
|---|------|-------------------|-------------|---|--|----------------------------|---|-----------------|-----------------------------|
| ID  | TYPE |                   |             |   |  | EXCAVATION DATES: 21/02/08 | EXCAVATOR TYPE: Tracked Case  | CONTRACTOR: MSI | PIT DIMENSIONS: 2.5x0.5x4.0 |
|   |      |                   |             | 0.0   | <b>Gravel</b><br>Coarse black 804 gravel   |                            |   | 0.0             | 0.0                         |
|   |      |                   |             | 1.0   | <b>Made Ground</b><br>Concrete footing   |                            |   | 1.0             | 1.0                         |
|   |      |                   |             | 2.0   | <b>Made Ground</b><br>Soft brown slightly gravelly sandy clay.                         |                            |   | 2.0             | 2.0                         |
| PRIO_TP33_2.0m  |      | *0.0ppm           |             | 2.0   |  |                            |   | 2.0             | 2.0                         |
|   |      |                   |             | 3.0   | <b>Gravelly CLAY</b><br>Stiff black gravelly CLAY. Gravel is subangular to subrounded. |                            |   | 3.0             | 3.0                         |
| PRIO_TP33_3.0m  |      | *0.0ppm           |             | 3.0   |  |                            |   | 3.0             | 3.0                         |
|   |      |                   |             | 4.0   |  |                            |   | 4.0             | 4.0                         |
|   |      |                   |             | 5.0   |  |                            |   | 5.0             | 5.0                         |
| <b>LOCATION / NOTES:</b><br>NEC = No evidence of contamination<br><br>Test pit completed after footing for northeast pump island was removed. |      |                   |             | <b>LEGEND</b><br> Disturbed Sample<br> Undisturbed Sample<br> Suspected Asbestos Containing Material (ACM)<br> Groundwater Table<br> Perched Water Table |  |                            | <b>TEST PIT LOG</b><br>Job Title: Decommissioning of Retail Service Station<br>Location: Ralfhamham, Dublin<br>Client: ABB Ltd.<br><br>App'd: SES      Date: Feb 2008<br>Drawn: RR      Ref: RR/EOH/DUB<br>Scale: As Shown      Job No: 45078651<br>Drg. Size: A4      BOREHOLE LOG |                 |                             |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP34  |                               | PAGE 1 of 1 |
|----------------|------|-------------------|-------------|-----------|---|--|-------------------------------|-------------|
| ID             | TYPE |                   |             |           |   | EXCAVATION DATES: 21/02/08   | EXCAVATOR TYPE : Tracked Case |             |
|                |      |                   |             |           |   | DESCRIPTION  | COMMENTS                      |             |
| PRIO_TP34_0.5m |      | *0.0ppm           |             | 0.0       |    | <b>Tarmac</b>  | NEC                           | 0.0         |
|                |      |                   |             |           |    | <b>Made Ground</b><br>Loose brown sandy gravel. Containing brick and concrete.         |                               |             |
| PRIO_TP34_1.5m |      | *0.0ppm           |             | 1.0       |    | <b>Made Ground</b><br>Soft slightly clayey gravelly sand. Containing brick fragments.  | NEC                           | 1.0         |
|                |      |                   |             |           |   |  |                               |             |
| PRIO_TP34_2.5m |      | *0.0ppm           |             | 2.0       |  | <b>Gravelly CLAY</b><br>Stiff brown sandy gravelly CLAY. Containing some cobbles.      | NEC                           | 2.0         |
|                |      |                   |             |           |   |  |                               |             |
| PRIO_TP34_3.5m |      | *0.0ppm           |             | 3.0       |  | <b>Gravelly CLAY</b><br>Stiff brown gravelly CLAY. Gravel is subangular to subrounded. | NEC                           | 3.0         |
|                |      |                   |             |           |   |  |                               |             |
|                |      |                   |             | 4.0       |   | End of hole at 3.8m  |                               | 4.0         |
|                |      |                   |             | 5.0       |   |  |                               | 5.0         |

**LOCATION / NOTES:**  
 NEC = No evidence of contamination

- LEGEND**
-  Disturbed Sample
  -  Undisturbed Sample
  -  Suspected Asbestos Containing Material (ACM)
  -  Groundwater Table
  -  Perched Water Table






**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd

|  |                 |                  |
|--|-----------------|------------------|
|  | App'd: SES      | Date: Feb 2008   |
|  | Drawn: RR       | Ref: RR/EOH/DUB  |
|  | Scale: As Shown | Job No: 45078651 |
|  | Drw. Size: A4   | BOREHOLE LOG     |

| SAMPLE                       |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP35      |                               | PAGE 1 of 1 |
|------------------------------|------|-------------------|-------------|-----------|---|----------------------------|-------------------------------|-------------|
| ID                           | TYPE |                   |             |           |   | EXCAVATION DATES: 21/02/08 | EXCAVATOR TYPE : Tracked Case |             |
|                              |      |                   |             |           |   | DESCRIPTION                | COMMENTS                      |             |
| PRIO_TP35_0.5m<br>PRIO_DUP01 |      | *0.0ppm           |             | 0.0       | Tarmac  |                            |                               | 0.0         |
|                              |      |                   |             | 1.0       | Made Ground<br>Loose brown sandy gravel. Containing brick fragments |                            | NEC                           | 1.0         |
|                              |      |                   |             | 2.0       | Pipes   |                            | NEC                           | 2.0         |
| PRIO_TP35_2.5m               |      | *0.0ppm           |             | 2.0       | Made Ground<br>Loose brown fine to coarse sand.                     |                            | NEC                           | 2.0         |
|                              |      |                   |             | 3.0       |   |                            | NEC                           | 3.0         |
| PRIO_TP35_3.7m               |      | *0.0ppm           |             | 3.7       | Gravelly CLAY<br>Stiff black gravelly CLAY                          |                            | NEC                           | 3.7         |
|                              |      |                   |             | 4.0       | End of hole at 3.7m   |                            |                               | 4.0         |
|                              |      |                   |             | 5.0       |   |                            |                               | 5.0         |






**LOCATION / NOTES:**  
 NEC = No evidence of contamination  
 Pipes located at southern end of testpit.

- LEGEND**
-  Disturbed Sample
  -  Undisturbed Sample
  -  Suspected Asbestos Containing Material (ACM)
  -  Groundwater Table
  -  Perched Water Table

**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
 Location: Rathfarnham, Dublin  
 Client: ABB Ltd.






|            |                 |                  |
|------------|-----------------|------------------|
| <b>URS</b> | App'd: SES      | Date: Feb 2008   |
|            | Drawn: RR       | Ref: RR/EOM/DUB  |
|            | Scale: As Shown | Job No: 45078651 |
|            | Drg. Size: A4   | BOREHOLE LOG     |

| SAMPLE         |      | PID READING (ppm) | GROUNDWATER | DEPTH (m) | GEOLOGY   | TEST PIT NUMBER: TP36      |                               | PAGE 1 of 1 |
|----------------|------|-------------------|-------------|-----------|---|----------------------------|-------------------------------|-------------|
| ID             | TYPE |                   |             |           |   | EXCAVATION DATES: 21/02/08 | EXCAVATOR TYPE : Tracked Case |             |
|                |      |                   |             |           |   | DESCRIPTION                | COMMENTS                      |             |
|                |      |                   |             | 0.0       |  <b>Concrete</b>   |                            |                               | 0.0         |
|                |      |                   |             | 0.0 - 2.0 |  <b>Carwash Interceptor</b>  |                            |                               | 1.0         |
|                |      |                   |             | 2.0       |  <b>Made Ground</b><br>Loose brown gravelly sand. Containing brick and concrete fragments. |                            |                               | 2.0         |
| PRIO_TP36_2.0m |      | *0.0ppm           |             | 2.0       |  <b>Gravelly CLAY</b><br>Firm brown gravelly CLAY. Gravel is subangular to subrounded.    |                            |                               | 2.0         |
|                |      |                   |             | 3.0       |   |                            |                               | 3.0         |
| PRIO_TP36_3.7m |      | *0.0ppm           |             | 4.0       |  <b>Gravelly CLAY</b><br>Stiff black gravelly CLAY. Gravel is subangular to subrounded.  |                            |                               | 4.0         |
|                |      |                   |             | 4.0 - 3.7 | End of hole at 3.7m   |                            |                               | 4.0         |
|                |      |                   |             | 5.0       |   |                            |                               | 5.0         |

**LOCATION / NOTES:**

NEC = No evidence of contamination  
Pipes located at southern end of testpit.

**LEGEND**

-  Disturbed Sample
-  Undisturbed Sample
-  Suspected Asbestos Containing Material (ACM)
-  Groundwater Table
-  Perched Water Table






**TEST PIT LOG**

Job Title: Decommissioning of Retail Service Station  
Location: Rathfarnham, Dublin  
Client: ABB Ltd.



|                 |                  |
|-----------------|------------------|
| App'd: SES      | Date: Feb 2008   |
| Drawn: RR       | Ref: RR/EOH/DUB  |
| Scale: As Shown | Job No. 45078651 |
| Dwg. Size: A4   | BOREHOLE LOG     |



| SAMPLE   |      | PID READING (ppm) | GROUNDWATER | DEPTH (m)  | GEOLOGY | TEST PIT NUMBER: TP37  |   | PAGE 1 of 1      |                              |                |
|--|------|-------------------|-------------|--|---------|--|---|------------------|------------------------------|----------------|
| ID   | TYPE |                   |             |  |         | EXCAVATION DATES: 21/02/08   | EXCAVATOR TYPE : Tracked Case   | CONTRACTOR : MSI | PIT DIMENSIONS : 2.5x0.5x4.0 | LOGGED BY : RR |
|  |      |                   |             | 0.0  |         | <b>Tarmac</b>  |   |                  | 0.0                          |                |
| PRIO_TP37_0.5m   |      | *0.0ppm           |             | 0.5  |         | <b>Made Ground</b><br>Loose brown gravelly sand. Gravel is angular. Containing large cobbles and frequent brick fragments. |   |                  |                              |                |
|  |      |                   |             | 1.0  |         |  |   | NEC              | 1.0                          |                |
| PRIO_TP37_2.0m   |      | *0.0ppm           |             | 2.0  |         | <b>Gravelly CLAY</b><br>Firm brown sandy gravelly CLAY. Gravel is subangular to subrounded.                                |   |                  |                              |                |
|  |      |                   |             | 3.0  |         |  |   | NEC              | 3.0                          |                |
| PRIO_TP37_4.0m   |      | *0.0ppm           |             | 4.0  |         | <b>Gravelly CLAY</b><br>Stiff black gravelly CLAY. Gravel is subangular to subrounded.                                     |   |                  |                              |                |
|  |      |                   |             | 4.0  |         | End of hole at 4.0m  |   | NEC              | 4.0                          |                |
|  |      |                   |             | 5.0  |         |  |   |                  | 5.0                          |                |
| <b>LOCATION / NOTES:</b><br>NEC = No evidence of contamination |      |                   |             | <b>LEGEND</b>  |         |  | <b>TEST PIT LOG</b>   |                  |                              |                |
|  |      |                   |             | <ul style="list-style-type: none"> <li> Disturbed Sample</li> <li> Undisturbed Sample</li> <li> Suspected Asbestos Containing Material (ACM)</li> <li> Groundwater Table</li> <li> Perched Water Table</li> </ul> |         |  | Job Title: Decommissioning of Retail Service Station<br>Location: Rathfarnham, Dublin<br>Client: ABB Ltd. |                  |                              |                |
|  |      |                   |             | <b>URS</b>   |         |  | App'd: SES  |                  | Date: Feb 2008               |                |
|  |      |                   |             |  |         |  | Drawn: RR   |                  | Ref: RR/EOH/DUB              |                |
|  |      |                   |             |  |         |  | Scale: As Shown   |                  | Job No. 45078651             |                |
|  |      |                   |             |  |         |  | Drg. Size: A4   |                  | BOREHOLE LOG                 |                |