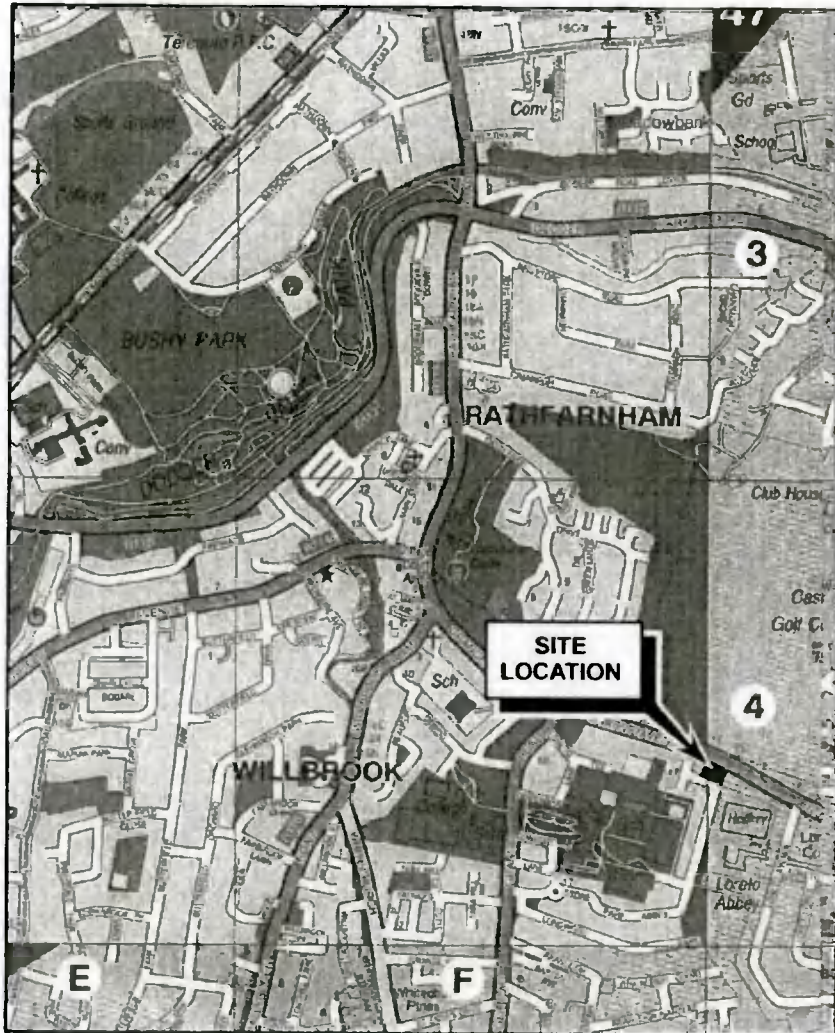
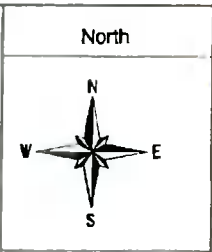


Figures



Ordnance Survey Ireland Licence No EN 0001905
 ©Ordnance Survey Ireland and Government of Ireland

CLIENT
ABB LTD.

PROJECT LOCATION
**CLOSURE REPORT
 PRIORY SERVICE STATION
 NUTGROVE AVENUE, RATHFARNHAM, DUBLIN**

DRAWING TITLE
FIGURE 1 - SITE LOCATION PLAN

ENVIRONMENTAL CONSULTANTS



veagh Court, 6-8 Harcourt Road, Dublin2
 TEL +353 1 4155100 FAX +353 1 4155101

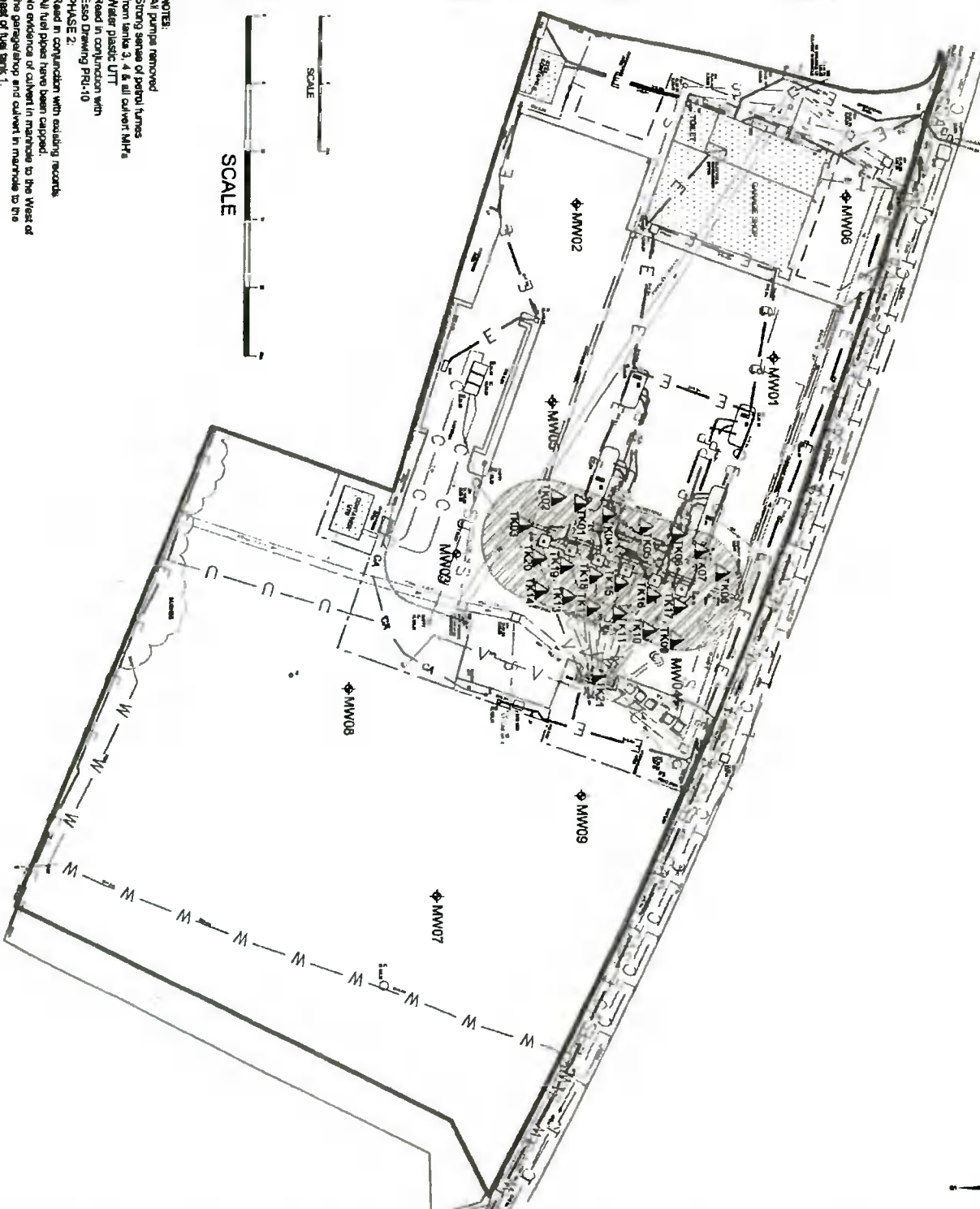
DRAWN SML	TRACED	CHECKED SS	APPROVED SSDUB	DATE APR 2008
SCALE 1:15,000	Job No. 45078651		REV. A	



◊ MW01 MONITORING WELL LOCATION
 — ESSO PROPERTY BOUNDARY
 ▲ TK05 TANK PULL VALIDATION SAMPLE

Information relating to underground services has been provided by outside sources and URS is not independently checked if this information is carried.

KEY	
1	100mm DIA. 100mm DEPTH MONITORING WELL
2	150mm DIA. 150mm DEPTH MONITORING WELL
3	200mm DIA. 200mm DEPTH MONITORING WELL
4	300mm DIA. 300mm DEPTH MONITORING WELL
5	400mm DIA. 400mm DEPTH MONITORING WELL
6	500mm DIA. 500mm DEPTH MONITORING WELL
7	600mm DIA. 600mm DEPTH MONITORING WELL
8	700mm DIA. 700mm DEPTH MONITORING WELL
9	800mm DIA. 800mm DEPTH MONITORING WELL
10	900mm DIA. 900mm DEPTH MONITORING WELL
11	1000mm DIA. 1000mm DEPTH MONITORING WELL
12	1100mm DIA. 1100mm DEPTH MONITORING WELL
13	1200mm DIA. 1200mm DEPTH MONITORING WELL
14	1300mm DIA. 1300mm DEPTH MONITORING WELL
15	1400mm DIA. 1400mm DEPTH MONITORING WELL
16	1500mm DIA. 1500mm DEPTH MONITORING WELL
17	1600mm DIA. 1600mm DEPTH MONITORING WELL
18	1700mm DIA. 1700mm DEPTH MONITORING WELL
19	1800mm DIA. 1800mm DEPTH MONITORING WELL
20	1900mm DIA. 1900mm DEPTH MONITORING WELL
21	2000mm DIA. 2000mm DEPTH MONITORING WELL
22	2100mm DIA. 2100mm DEPTH MONITORING WELL
23	2200mm DIA. 2200mm DEPTH MONITORING WELL
24	2300mm DIA. 2300mm DEPTH MONITORING WELL
25	2400mm DIA. 2400mm DEPTH MONITORING WELL
26	2500mm DIA. 2500mm DEPTH MONITORING WELL
27	2600mm DIA. 2600mm DEPTH MONITORING WELL
28	2700mm DIA. 2700mm DEPTH MONITORING WELL
29	2800mm DIA. 2800mm DEPTH MONITORING WELL
30	2900mm DIA. 2900mm DEPTH MONITORING WELL
31	3000mm DIA. 3000mm DEPTH MONITORING WELL
32	3100mm DIA. 3100mm DEPTH MONITORING WELL
33	3200mm DIA. 3200mm DEPTH MONITORING WELL
34	3300mm DIA. 3300mm DEPTH MONITORING WELL
35	3400mm DIA. 3400mm DEPTH MONITORING WELL
36	3500mm DIA. 3500mm DEPTH MONITORING WELL
37	3600mm DIA. 3600mm DEPTH MONITORING WELL
38	3700mm DIA. 3700mm DEPTH MONITORING WELL
39	3800mm DIA. 3800mm DEPTH MONITORING WELL
40	3900mm DIA. 3900mm DEPTH MONITORING WELL
41	4000mm DIA. 4000mm DEPTH MONITORING WELL
42	4100mm DIA. 4100mm DEPTH MONITORING WELL
43	4200mm DIA. 4200mm DEPTH MONITORING WELL
44	4300mm DIA. 4300mm DEPTH MONITORING WELL
45	4400mm DIA. 4400mm DEPTH MONITORING WELL
46	4500mm DIA. 4500mm DEPTH MONITORING WELL
47	4600mm DIA. 4600mm DEPTH MONITORING WELL
48	4700mm DIA. 4700mm DEPTH MONITORING WELL
49	4800mm DIA. 4800mm DEPTH MONITORING WELL
50	4900mm DIA. 4900mm DEPTH MONITORING WELL
51	5000mm DIA. 5000mm DEPTH MONITORING WELL
52	5100mm DIA. 5100mm DEPTH MONITORING WELL
53	5200mm DIA. 5200mm DEPTH MONITORING WELL
54	5300mm DIA. 5300mm DEPTH MONITORING WELL
55	5400mm DIA. 5400mm DEPTH MONITORING WELL
56	5500mm DIA. 5500mm DEPTH MONITORING WELL
57	5600mm DIA. 5600mm DEPTH MONITORING WELL
58	5700mm DIA. 5700mm DEPTH MONITORING WELL
59	5800mm DIA. 5800mm DEPTH MONITORING WELL
60	5900mm DIA. 5900mm DEPTH MONITORING WELL
61	6000mm DIA. 6000mm DEPTH MONITORING WELL
62	6100mm DIA. 6100mm DEPTH MONITORING WELL
63	6200mm DIA. 6200mm DEPTH MONITORING WELL
64	6300mm DIA. 6300mm DEPTH MONITORING WELL
65	6400mm DIA. 6400mm DEPTH MONITORING WELL
66	6500mm DIA. 6500mm DEPTH MONITORING WELL
67	6600mm DIA. 6600mm DEPTH MONITORING WELL
68	6700mm DIA. 6700mm DEPTH MONITORING WELL
69	6800mm DIA. 6800mm DEPTH MONITORING WELL
70	6900mm DIA. 6900mm DEPTH MONITORING WELL
71	7000mm DIA. 7000mm DEPTH MONITORING WELL
72	7100mm DIA. 7100mm DEPTH MONITORING WELL
73	7200mm DIA. 7200mm DEPTH MONITORING WELL
74	7300mm DIA. 7300mm DEPTH MONITORING WELL
75	7400mm DIA. 7400mm DEPTH MONITORING WELL
76	7500mm DIA. 7500mm DEPTH MONITORING WELL
77	7600mm DIA. 7600mm DEPTH MONITORING WELL
78	7700mm DIA. 7700mm DEPTH MONITORING WELL
79	7800mm DIA. 7800mm DEPTH MONITORING WELL
80	7900mm DIA. 7900mm DEPTH MONITORING WELL
81	8000mm DIA. 8000mm DEPTH MONITORING WELL
82	8100mm DIA. 8100mm DEPTH MONITORING WELL
83	8200mm DIA. 8200mm DEPTH MONITORING WELL
84	8300mm DIA. 8300mm DEPTH MONITORING WELL
85	8400mm DIA. 8400mm DEPTH MONITORING WELL
86	8500mm DIA. 8500mm DEPTH MONITORING WELL
87	8600mm DIA. 8600mm DEPTH MONITORING WELL
88	8700mm DIA. 8700mm DEPTH MONITORING WELL
89	8800mm DIA. 8800mm DEPTH MONITORING WELL
90	8900mm DIA. 8900mm DEPTH MONITORING WELL
91	9000mm DIA. 9000mm DEPTH MONITORING WELL
92	9100mm DIA. 9100mm DEPTH MONITORING WELL
93	9200mm DIA. 9200mm DEPTH MONITORING WELL
94	9300mm DIA. 9300mm DEPTH MONITORING WELL
95	9400mm DIA. 9400mm DEPTH MONITORING WELL
96	9500mm DIA. 9500mm DEPTH MONITORING WELL
97	9600mm DIA. 9600mm DEPTH MONITORING WELL
98	9700mm DIA. 9700mm DEPTH MONITORING WELL
99	9800mm DIA. 9800mm DEPTH MONITORING WELL
100	9900mm DIA. 9900mm DEPTH MONITORING WELL
101	10000mm DIA. 10000mm DEPTH MONITORING WELL



NOTES:
 All piping removed
 Strong sense of petrol fumes from tanks 3, 4 & all adjacent MHA
 Water plastic UTT
 Read in conjunction with Esso Drawing PRU-10
PHASE 2:
 Read in conjunction with existing records
 All fuel pipes have been capped
 No evidence of solvent in manhole to the West of east of fuel tank 1.
PHASE 3:
 Additional subsection of central location south of the site (south of container UTS), Subsection completed on 13.01.08 by Geomatic Solutions

<p align="center">CONSULTING ENGINEERS</p> <p align="center">URS</p> <p align="center">4th Floor, Vauxhall Centre, 54th Street, Dublin 2, Tel: 01 453 1100</p>	
Office of Origin DUBLIN	Date of Issue APR 08
Client ABB Ltd.	Drawn 40SEVENGEOMATC 04.02.08 SS/DUB
Checked AS SHOWN	Date APR 08
Project Name CLOSURE REPORT PRIORITY SERVICE STATION NUTGROVE AVENUE, RATHFARHAM, DUBLIN	Scale AS SHOWN
Drawing No. 45078651	Revision No. A3

**FIGURE 3. SITE LAYOUT PLAN
SHOWING TANK PULL VALIDATION SAMPLE
LOCATIONS**

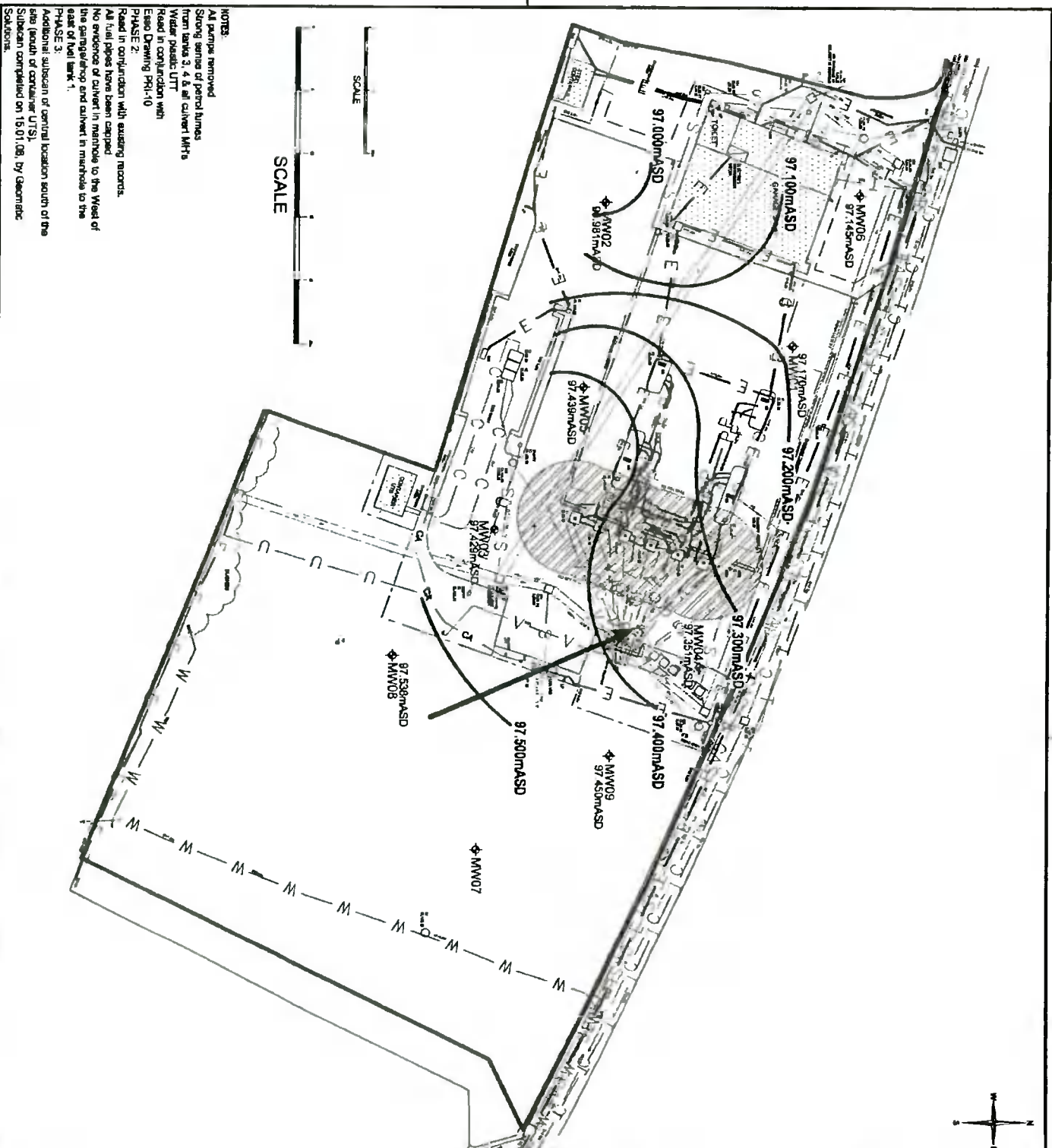


ABB Ltd.

CONSULTING ENGINEERS

URS

40 River Valley Court, Dalkey Road, Dublin 2, Tel: 00353 (0)1 4546100

DUBLIN

Client: **ABB Ltd.**

Contract: **40SEVEN/SEMATIC 04.02.08 SS/DUB**

Drawn: **APR 08**

Checked: **APR 08**

Scale: **A3**

Dimensions in mm unless stated otherwise. DO NOT SCALE

KEY

- MW01 MONITORING WELL LOCATION
- ESSO PROPERTY BOUNDARY
- INTERPOLATED PIEZOMETRIC CONTOUR
- DIRECTION
- RELATIVE WATER LEVEL
- 98.9mASD (metres above arbitrary site datum)

Information relating to underground services has been provided by external sources and URS has not independently checked it via information in contract.

TRAIL CODES

1.00: 100% COMPLETE

2.00: 20% COMPLETE

3.00: 10% COMPLETE

4.00: 5% COMPLETE

5.00: 2% COMPLETE

6.00: 1% COMPLETE

7.00: 0.5% COMPLETE

8.00: 0.2% COMPLETE

9.00: 0.1% COMPLETE

10.00: 0% COMPLETE

ABBREVIATIONS

AS: ABOVE GRADE

BS: BELOW GRADE

CD: CENTERLINE

CL: CENTERLINE

CR: CENTERLINE

CU: CENTERLINE

CV: CENTERLINE

CA: CENTERLINE

CB: CENTERLINE

CC: CENTERLINE

CD: CENTERLINE

CE: CENTERLINE

CF: CENTERLINE

CG: CENTERLINE

CH: CENTERLINE

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FIGURE 5 - GROUNDWATER CONTOUR PLAN

14th JANUARY 2008

Pg. No. **45078651**







BOREHOLE CONSTRUCTION	SAMPLE		PID READING	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: PRIO_BH03		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 21 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	
						TARMAC	COMMENTS			
	PRIO_BH03_0.4		0ppm			HARDCORE	<p>CLAY Firm brown sandy CLAY with occasional cobbles. Sand is fine.</p> <p>1.0</p> <p>2.0</p> <p>3.0</p> <p>4.0</p> <p>5.0</p> <p>6.0</p> <p>End of Borehole</p>			
	PRIO_BH03_1.4		2.7ppm							
	PRIO_BH03_2.2		1.6ppm			CLAY Firm brown wet slightly sandy slightly gravelly CLAY with occasional cobbles. Band of gravel 4cm in thickness. Gravel is medium and angular.				
	PRIO_BH03_3.5		1.1ppm			CLAY Very stiff dark grey slightly sandy slightly gravelly CLAY with occasional cobbles and boulders. Sand is fine. Gravel is fine and angular.	<p>1.0</p> <p>3.0</p> <p>4.0</p> <p>5.0</p> <p>6.0</p>			
			2ppm							

LOCATION / NOTES:

NEC= No Evidence of Contamination

Seepage at 2m

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
Dwg. Size: A4	BOREHOLE LOG

BOREHOLE CONSTRUCTION	SAMPLE		PID READING	GROUNDWATER	DEPTH (m)	GEOLOGY	BOREHOLE NUMBER: PRIO_BH01		PAGE 1 of 1	
	NUMBER	TYPE					DRILLING DATES: 22 March 2006	DRILLING METHODS: Hollow Stem	DRILLER: GES	BOREHOLE DIAMETER: 200mm
	PRIO_BH01_0.6		0.5ppm		0.6	COBBLE LOCK CONCRETE CLAY Firm brown gravelly slightly sandy CLAY with occasional cobbles. Gravel is coarse and rounded. Soil wet at 1.2m.	NEC	1.0		
	PRIO_BH01_2		1ppm		2.0	CLAY Very stiff dark grey slightly gravelly CLAY with occasional cobbles and boulders. Gravel is medium and angular.	NEC	2.0		
	PRIO_BH01_3		1ppm		3.0		NEC	3.0		
			0.5ppm		4.0					
		0ppm		5.0						
		0ppm		6.0		End of Borehole				

LOCATION / NOTES:
 NEC= No Evidence of Contamination
 Seepage at 1.2m

- 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, Nulgrove Avenue, Rathfarnham, Dublin 14.
 Client: ABB Engineering Ltd.

URS

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