

Equipment & Methods
Cable tool percussion boring, 150mm dia. GL to 10.00mbgl; cased to 10.00mbgl

Location No. 190055
Location WESTTHORN RECREATION GROUND, LONDON ROAD, GLASGOW.

Carried out for
GLASGOW CITY COUNCIL

Ground Level 17.23m AOD
Coordinates 530.7E
353.0N
Date 15/03/00
to 16/03/00

Description	Reduced Level	Legend	Depth & (Thickness)	Samples/Tests			Field Records	
				Depth	Sample Type	Sample No		Test
Mixed clay, ash, stones and rubble fill. #	18.83	[Pattern]	0.40					
Soft becoming firm brown mottled slightly sandy CLAY. Traces of fine gravel. (possible MADE GROUND)	18.03	[Pattern]	0.95	0.50 - 0.95	U	01		14 blows 250mm recovery
			1.28	0.95	D	02		
Brown sandy mottled clay. #	15.83	[Pattern]	1.40	1.50 - 1.95	D	03	S N#7	(1, 1, 2, 2, 2)
				1.50 - 1.95	B	04		
Soft thinly laminated brown becoming grey brown slightly sandy CLAY. (ALLUVIUM)		[Pattern]	2.95	2.50 - 2.95	U	05		14 blows 410mm recovery
				2.95	D	06		
		[Pattern]	3.95	3.50 - 3.95	D	07	S N#2	(1, 1, 1, 1)
			4.10	3.50 - 3.95	B	08		
		[Pattern]	4.95	4.50 - 4.95	WE	09		
			4.95	4.50 - 4.95	D	10	S N#5	(1, 1, 1, 1, 2)
		[Pattern]	8.00	8.00 - 8.45	B	11		
			8.00	8.00 - 8.45	D	12	S N#4	(1, 1, 1, 1, 1)
		[Pattern]	7.95	7.50 - 7.95	U			
			7.95	7.50 - 7.95	B	14		
		[Pattern]	9.45	9.00 - 9.45	D	15	S N#5	(1, 1, 2, 1, 1, 1)
			9.45	9.00 - 9.45	B	16		

Borehole complete at 10.00 m

Remarks
Denotes Foreman's description.

Note - Environmental samples are suffixed "E".

Logged by

Scale
1:50

Fig

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Equipment & Methods

(As Sheet One)

Location No 180055

Location WESTTHORN RECREATION GROUND, LONDON ROAD, GLASGOW.

Carried out for

GLASGOW CITY COUNCIL

Ground Level

Coordinates

Date

(As Sheet One)

Water Level Observations during Boring

Date	Time	Depth of Hole (m)	Depth of Casing (m)	Depth to Water (m)	Remarks
15/03/00	1800	8.00	8.00	5.80	
16/03/00	0800	8.00	6.00	5.40	
18/03/00	1800	10.00	10.00	8.30	
18/03/00	1900	10.00	8.00	6.70	

Hole Diameter by Depth Table

Depth of Hole (m)	Diameter of Hole (mm)	Diameter of Casing (mm)	Depth of Casing (m)
10.00	150	150	10.00

Water Strike Table

Depth of Strike (m)	Casing Depth (m)	Date	Time	Post Strike Depth (m)	Minutes After Strike	Sealed at (m)	Remarks
4.10	4.10	15/03/00	N/R	4.10	20	N/R	no rise in level

Depth Related Remarks Table

Top Depth (m)	Remarks

Remarks

Equipment & Methods
Cable tool percussion boring, 150mm dia., GL to 10.00mbgl; cased to 6.00mbgl.

Location No. 190055
Location WESTHORN RECREATION GROUND, LONDON ROAD, GLASGOW.

Carried out for
GLASGOW CITY COUNCIL.

Ground Level 17.71m AOD
Coordinates 618 5E
276 8N
Date 26/03/00

Description	Reduced Level	Legend	Depth & (Thickness)	Samples/Tests			Field Records
				Depth	Sample Type No	Test	
Topsoil and ash fill. #	17.31		0.40				
Orange brown becoming brown slightly gravelly sandy SILT. Gravel is fine and medium. Some pockets of dark brown CLAY.			0.50 - 0.95 0.50 - 0.95	D B	01 02	S N=6	(2.1.1.1,2.2)
	16.41		(1.95)				
			1.50 - 1.95 1.50 - 1.95	D B	03 04	S N=6	(1.1.1.1,2.2)
Soft becoming firm thinly laminated slightly sandy CLAY. (ALLUVIUM)	15.41		2.30				
			2.50 - 2.95	U	05		16 blows 380mm recovery
			3.00	D	06		
			3.50 - 3.95	U	07		16 blows 430mm recovery
			4.00	D	08		
			4.50 - 4.95	U	09		20 blows 450mm recovery
			5.00	Q	10		
			5.50 - 5.95	U	11		21 blows 430mm recovery
			6.00	D	12		
			(7.70)				
	7.71		7.00 - 7.45	U	13		20 blows 450mm recovery
			7.50	D	14		
	7.71		8.00 - 8.45	D	15	S N=11	(2.2.2.3,3.3)
			9.50 - 9.95	U	16		20 blows 480mm recovery
<i>Borehole complete at 10.00 m</i>	7.71		10.00				

Remarks
1 # Denotes Foreman's description
2 Refer to sheet 3 of 3 for installation details.

Note - Environmental samples are suffixed "E".

Logged by:
Scale 1:50
Fig. 36

Equipment & Methods

(As Sheet One)

Location No. 190055

Location WESTTHORN RECREATION GROUND, LONDON ROAD, GLASGOW.

Carried out for

GLASGOW CITY COUNCIL.

Ground Level

Coordinates

Date

(As Sheet One)

Water Level Observations during Boring

Date	Time	Depth of Hole (m)	Depth of Casing (m)	Depth to Water (m)	Remarks
26/03/00	1600	10.00	5.00	DRY	
28/03/00	1600	10.00	6.00	DRY	

Hole Diameter by Depth Table

Depth of Hole (m)	Diameter of Hole (mm)	Diameter of Casing (mm)	Depth of Casing (m)
10.00	150	150	6.00

Water Strike Table

Depth of Strike (m)	Casing Depth (m)	Date	Time	Post Strike Depth (m)	Minutes After Strike	Sealed at (m)	Remarks

Depth Related Remarks Table

Top Depth (m)	Remarks

Remarks

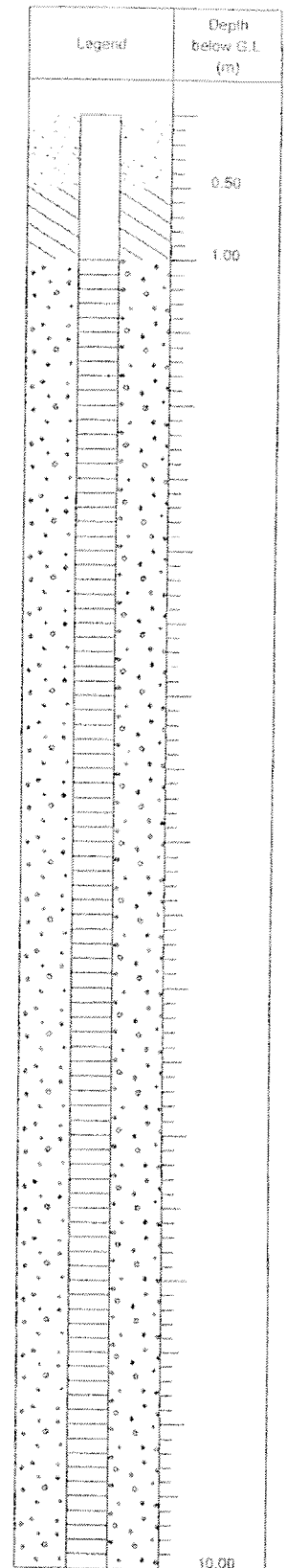
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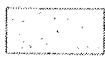
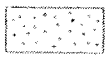
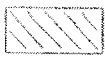


Location No. 190055
Location WESTTHORN RECREATION GROUND,
LONDON ROAD, GLASGOW.

Type of installation:- GAS WELL
Date of installation:- 26/03/00
Internal diameter of tubing:- 50mm
Response zone:- Top=1.00m Base=10.00m
Diameter of filter:- 150mm

Depth (m)		Summary of installation
From	To	
		Surface protection:- Stand up cover.
0.00	0.50	Concrete
0.50	1.00	Bentonite seal
1.00	10.00	Gravel



KEY

-  Concrete
-  Sand
-  Gravel
-  Bentonite seal
-  Bentonite/cement grout
-  Backfill

Remarks
1. Ground level and co-ordinates as sheet 1.

Scale
1:50

Fig.
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Equipment & Methods
Cable tool percussion boring, 150mm dia., GL to 10.00mbgl, cased to 6.60mbgl.

Location No. 190055
Location WESTTHORN RECREATION GROUND, LONDON ROAD, GLASGOW.

Carried out for
GLASGOW CITY COUNCIL

Ground Level 18.19m AOD
Coordinates 677 3E
193.8N
Date 15/03/00
to 16/03/00

Description	Reduced Level	Legend	Depth & (Thickness)	Samples/Tests			Field Records
				Depth	Sample Type No	Test	
Topsoil, #	17.69		(0.30)				
Firm brown slightly sandy slightly gravelly CLAY. Gravel is fine and medium including ceramics and red blaes. Some pockets of ash. (MADE GROUND)	17.49		(0.40)	0.50 - 0.95	U 01		20 blows 390mm recovery
Firm pinkish grey mottled orange sandy CLAY. Traces of rootlets.	17.19		(0.50)	1.00	D 02	S N=14	(2,2,3,3,4)
Firm thinly laminated brown mottled grey brown slightly sandy CLAY (ALLUVIUM)			1.00	1.00 - 1.45	O 03		
				1.00 - 1.45	B 04		
			1.50	1.50 - 1.95	U 05		20 blows 450mm recovery
			(1.70)	2.00	D 06		
			2.50	2.50 - 2.95	U 07		22 blows 450mm recovery
	16.40		2.50	2.50	W 08		
Uncompact thinly laminated brown slightly sandy SILT. Occasional laminae of clay.			3.00	3.00 - 3.45	D 09	S N=5	(1,1,1,1)
			3.00	3.00 - 3.45	O 09		
			3.00	3.00 - 3.45	B 10		
			(3.50)	4.00 - 4.45	D 11	S N=7	(1,1,1,2,3)
				4.00 - 4.45	B 12		
			5.00	5.00 - 5.45	D 13	S N=7	(1)
				5.00 - 5.45	B 14		
			6.00	6.00 - 6.45	U 15		23 blows 400mm recovery
	11.00		6.20	6.50	D 17		
Firm thinly laminated dark brown slightly sandy CLAY. (ALLUVIUM)			(3.50)	7.50 - 7.95	U 18		20 blows No recovery
				7.50 - 8.00	B 18		
			8.00	8.00 - 8.45	D 19	S N=11	(2,2,2,3,3,3)
				8.00 - 8.45	B 20		
			9.00	9.00 - 9.95	D 21	S N=9	(1,1,2,3,3)
	5.12		10.00				

Borehole complete at 10.00 m

Remarks
1 # Dencles Foreman's description

Note: Environmental samples are suffixed "E".

Logged by

Scale

1:50

Fig

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Equipment & Methods

(As Sheet One)

Location No 190055

Location WESTHORN RECREATION GROUND, LONDON ROAD, GLASSOW.

Carried out for

GLASGOW CITY COUNCIL

Ground Level

Coordinates

Date

(As Sheet One)

Water Level Observations during Boring

Date	Time	Depth of Hole (m)	Depth of Casing (m)	Depth to Water (m)	Remarks
15/02/00	1800	6.00	6.00	DRY	-
16/02/00	0800	6.00	6.00	2.50	-
16/02/00	1900	10.00	6.00	0.00	damp
16/02/00	1600	10.00	6.00	6.00	-

Hole Diameter by Depth Table

Depth of Hole (m)	Diameter of Hole (mm)	Diameter of Casing (mm)	Depth of Casing (m)
10.00	150	150	6.60

Water Strike Table

Depth of Strike (m)	Casing Depth (m)	Date	Time	Post Strike Depth (m)	Minutes After Strike	Sealed at (m)	Remarks

Depth Related Remarks Table

Top Depth (m)	Remarks

Remarks

Fig.

Equipment & Methods
Cable tool percussion boring, 150mm dia., GL to 10.00mbgl; casing to 6.60mbgl

Location No. 190055
Location WESTTHORN RECREATION GROUND, LONDON ROAD, GLASGOW.

Carried out for
GLASGOW CITY COUNCIL.

Ground Level 17.02m AOD
Coordinates 262 464.5E
663 284.1N
Date 27/03/00

Description	Reduced Level	Legend	Depth & (Thickness)	Samples/Tests			Field Records
				Depth	Sample Type No	Test	
Topsoil #	16.87		0.15				
Orange brown mottled grey slightly gravelly slightly sandy CLAY. (possible MADE GROUND)			(0.85)	0.50 - 0.95 0.50 - 0.95	D B	01 02	S N+4 (1.1.1.1.1)
Firm orange brown mottled pinkish grey slightly sandy CLAY.	16.22		0.80	1.00 - 1.45	U	03	18 blows 410mm recovery
Firm thinly laminated brown slightly sandy CLAY. Occasional laminae of grey clay.	15.75		1.30	1.50	D	04	
Thinly laminated brown sandy SILT (ALLUVIUM)	15.32		1.70	1.60	D	05	
Firm becoming soft thinly laminated CLAY. Occasional thin laminae of silt. (ALLUVIUM)	15.12		1.90	2.00 - 2.45	U	06	18 blows 450mm recovery
				2.50	D	07	
				3.00 - 3.45	U	08	18 blows 450mm recovery
			(3.15)	3.50	D	09	
				4.00 - 4.45	U	10	18 blows 430mm recovery
				4.50	D	11	
				5.00 - 5.45	U	12	19 blows 440mm recovery
				5.50	D	13	
Soft becoming firm thinly interlaminated slightly sandy CLAY and SILT. (ALLUVIUM)	12.02		5.00	6.00 - 6.45 6.00 - 6.45	D B	14 15	S N+9 (1.1.2.2.2.3)
				7.50 - 7.95	U	16	20 blows 430mm recovery
			(5.00)	8.00	D	17	
				9.00 - 9.45	U	18	19 blows 450mm recovery
				9.50	D	19	
Borehole complete at 10.00 m	7.02		10.00				

Remarks
1. # Denotes Foreman's description.

Note: Environmental samples are suffixed "E".

Logged by
Scale 1:50
Fig. 32

Equipment & Methods

(As Sheet One)

Location No. 190055

Location WESTTHORN RECREATION GROUND, LONDON ROAD, GLASGOW.

Carried out for

GLASGOW CITY COUNCIL

Ground Level

Coordinates

Date

(As Sheet One)

Water Level Observations during Boring

Date	Time	Depth of Hole (m)	Depth of Casing (m)	Depth to Water (m)	Remarks
27/03/00	1900	10.00	6.60	DRY	
27/03/00	1650	10.00	0.00	DRY	

Hole Diameter by Depth Table

Depth of Hole (m)	Diameter of Hole (mm)	Diameter of Casing (mm)	Depth of Casing (m)
10.00	150	150	6.60

Water Strike Table

Depth of Strike (m)	Casing Depth (m)	Date	Time	Post Strike Depth (m)	Minutes After Strike	Sealed at (m)	Remarks

Depth Related Remarks Table

Top Depth (m)	Remarks

Remarks

Fig

Equipment & Methods
Cable foot percussion boring, 150mm dia., GL to 10.00mbgl; cased to 6.60mbgl.

Location No 190055
Location WESTHORN RECREATION GROUND, LONDON ROAD, GLASGOW.

Carried out for
GLASGOW CITY COUNCIL.

Ground Level
16.25m AOD

Description	Reduced Level	Legend	Depth & (Thickness)	Samples/Tests		
				Depth	Sample Type No	Test
Topsoil. #	16.05					
Orange mottled brown very sandy CLAY. Traces of coal.	16.26				B B 61 62	S N=6
Uncompact mottled pinkish grey, orange and brown slightly sandy slightly gravelly SILT. Gravel is fine and medium. (ALLUVIUM)	12.85				C B 63 64	S N=10
Firm thinly laminated brown slightly sandy CLAY. Occasional laminae of silt. (ALLUVIUM)	10.26				U 65 66 67 68 69 70 71 72	S N=9
Thinly laminated brown CLAY. (ALLUVIUM)	10.00				U B 13 14 15 16	S N=8
	10.00				D 17	S N=9

Borehole complete at 10.00 m

Remarks
1. # Denotes Foreman's description

Note:- Environmental samples are suffixed "E".

Equipment & Methods

(As Sheet One)

Location No 190053

Location WESTTHORN RECREATION GROUND, LONDON ROAD, GLASGOW

Carried out for

GLASGOW CITY COUNCIL

Ground Level

Coordinates

Date

(As Sheet One)

Water Level Observations during Boring

Date	Time	Depth of Hole (m)	Depth of Casing (m)	Depth to Water (m)	Remarks
16/03/00	1600	6.00	4.60	DRY	-
17/03/00	0800	6.00	4.60	3.00	-
17/03/00	1900	10.00	6.60	0.00	damp
17/03/00	1600	10.00	0.00	6.00	-

Hole Diameter by Depth Table

Depth of Hole (m)	Diameter of Hole (mm)	Diameter of Casing (mm)	Depth of Casing (m)
10.00	150	150	6.60

Water Strike Table

Depth of Strike (m)	Casing Depth (m)	Date	Time	Post Strike Depth (m)	Minutes After Strike	Sealed at (m)	Remarks

Depth Related Remarks Table

Top Depth (m)	Remarks

Remarks

Fig

Equipment & Methods
Cable tool percussion boring, 250mm dia., GL to 24.50mbgl; cased to 22.00mbgl.

Location No 190055
Location WEST THORN RECREATION GROUND, LONDON ROAD, GLASGOW.

Carried out for
GLASGOW CITY COUNCIL

Ground Level 17.43m AOD
Coordinates 26 2614 2E
26 3100 5N
Date 17/03/00
to 25/03/00

Description	Reduced Level	Legend	Depth & (Thickness)	Samples/Tests			Field Records
				Depth	Sample Type No	Test	
Topsoil. #	17.13		(0.30) 0.30				
Orange brown mottled pinkish grey slightly gravelly sandy SILT. Gravel is fine. Some pockets of clay. Traces of coal.	18.43		(0.70) 0.50 - 0.95 0.90 - 0.95	D B	01 02	S N#8	(1,1,1,1,2,2)
Orange mottled brown sandy SILT.	18.43		1.00 (1.30) 1.50 - 1.95 1.50 - 1.95	D B	03 04	S N#4	(1,1,1,1,1,1)
Brown mottled dark grey sandy CLAY. Many pockets of silt.	15.13		2.30 (1.00) 2.50 - 2.95 2.50 - 2.95	D B	05 06	S N#1	(1,1,1,1,1)
Firm brown mottled grey slightly sandy slightly gravelly CLAY. Gravel is fine including coal. Occasional thin laminations. (ALLUVIUM)	14.13		3.30 (0.90) 3.50 - 3.95 4.00	U D	07 08		20 blows 450mm recovery
Firm becoming soft thinly laminated brown slightly sandy CLAY. (ALLUVIUM)	13.23		4.20 4.50 - 4.95 4.50 - 4.95	D B	09 10	S N#9	(1,1,1,2,3,3)
			(1.90) 5.00 - 6.45 6.00 - 6.45	D B	11 12	S N#11	(1,1,2,3,3,3)
			7.00 - 7.45 7.50	U D	13 14		20 blows 450mm recovery
			8.50 - 8.95	U	15		21 blows 350mm recovery
Firm thinly laminated brown CLAY. (ALLUVIUM)	6.63		9.00	D	16		

Continued next sheet

- Remarks
- # Denotes Foreman's description.
 - Borehole terminated on rock or boulder obstruction at 24.50mbgl.
 - Refer to sheet 5 of 5 for installation details.

Note:- Environmental samples are suffixed 'E'.

Logged by

Scale

1:50

Fig.

Equipment & Methods
Cable tool percussion boring, 200mm dia., GL to 24.50mbgl, cased to 22.00mbgl.

Location No. 190055
Location WESTTHORN RECREATION GROUND, LONDON ROAD, GLASGOW.

Carried out for
GLASGOW CITY COUNCIL

Ground Level 17.43m AOD
Coordinates 614.2E
100.5N
Date 17/03/00
to 25/03/00

Description	Reduced Level	Legend	Depth & (Thickness)	Samples/Tests			Field Records	
				Depth	Sample			Test
					Type	No		
Firm thinly laminated brown CLAY. (ALLUVIUM)				10.00 - 10.45	U	17		19 blows 420mm recovery
				10.50	D	18		
				11.50 - 11.95	U	19		23 blows 390mm recovery
			(5.70)	12.00	D	20		
				13.00 - 13.45	U	21		20 blows 400mm recovery
				13.50	D	22		
				13.50	W	23		
				14.50 - 14.95	D	23	S	(3,4,4,5,5)
				14.50 - 14.95	B	24	10*20	
		1.93		15.50				
Thinly laminated dark brown SILT. Occasional lenses of clay. (ALLUVIUM)				16.00 - 16.45	D	25	S	(1,1,1,2,2,3)
				16.00 - 16.45	B	26	10*6	
				17.50 - 17.95	D	27	S	(1,1,2,2,2,2)
			(4.50)	17.50 - 17.95	B	28	10*6	
				18.00 - 18.45	D	29	S	(1,1,2,2,2,3)
				18.00 - 18.45	B	30	10*6	
Continued next sheet								
	2.57		20.00					

Remarks

Logged by

Scale
1:50

Fig.

Note:- Environmental samples are suffixed "E".

Equipment & Methods Cable tool percussion boring, 200mm dia., GL to 24.50mbgl; cased to 22.00mbgl	Location No 190055 Location WESTTHORN RECREATION GROUND, LONDON ROAD, GLASGOW
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Carried out for GLASGOW CITY COUNCIL	Ground Level 17.43m AOD	Coordinates 614 2E 100 5N	Date 17/03/00 to 25/03/00
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Description	Reduced Level	Legend	Depth & (Thickness)	Samples/Tests			Field Records	
				Depth	Sample Type	Sample No		Test
Thinly laminated dark brown SILT. Occasional lenses of clay. (ALLUVIUM) Dark brown slightly sandy SILT. (ALLUVIUM)	2.57		20.00	95	C	31	S	(2,2,2,2,2)
				95	B	32	N=8	
Dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse of mixed lithology (GLACIAL TILL)	5.21		(2.75)	22.00 - 22.45	C	34	S	(1,1,2,2,3)
				22.00 - 22.45	B	35	N=10	
Dark brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse of mixed lithology (GLACIAL TILL)	5.21		(1.60)	23.00 - 23.45	U			50 blows No recovery
				23.00 - 23.50	B			
Recovered as white fine to coarse subangular calcareous sandstone GRAVEL. (possible weathered SANDSTONE) Borehole complete at 24.50 m	6.67 7.07		24.30	23.50 - 23.95	C	37	S	(4,5,6,6,7,8)
				23.50 - 23.95	B	38	N=27	
	6.67 7.07		24.30	24.30	-			(50 for 10mm per)
				24.30		39		

Remarks Note:- Environmental samples are suffixed "E".	Logged by
	Scale 1:50
	Fig 34

Equipment & Methods

(As Sheet One)

Location No 190055

Location WESTTHORN RECREATION GROUND, LONDON ROAD, GLASGOW.

Carried out for

GLASGOW CITY COUNCIL

Ground Level

Coordinates

Date

(As Sheet One)

Date	Time	Depth of Hole (m)	Depth of Casing (m)	Depth to Water (m)	Remarks
17/03/00	1800	4.00	3.30	DRY	
22/03/00	0900	4.00	3.30	DRY	
22/03/00	1600	13.00	12.30	DRY	
23/03/00	0800	13.00	12.30	DRY	
23/03/00	1600	18.00	16.00	DRY	
24/03/00	0900	18.00	15.00	DRY	
24/03/00	1600	22.00	22.00	DRY	
25/03/00	0900	22.00	22.00	13.00	
25/03/00	1800	24.00	22.00	DRY	
26/03/00	1800	24.50	0.00	DRY	

Depth of Hole (m)	Diameter of Hole (mm)	Diameter of Casing (mm)	Depth of Casing (m)
24.50	200	200	22.00

Depth of Strike (m)	Casing Depth (m)	Date	Time	Post Strike Depth (m)	Minutes After Strike	Sealed at (m)	Remarks

Top Depth (m)	Remarks
24.30	24.30 to 24.50m bgl 1.0m chiselling

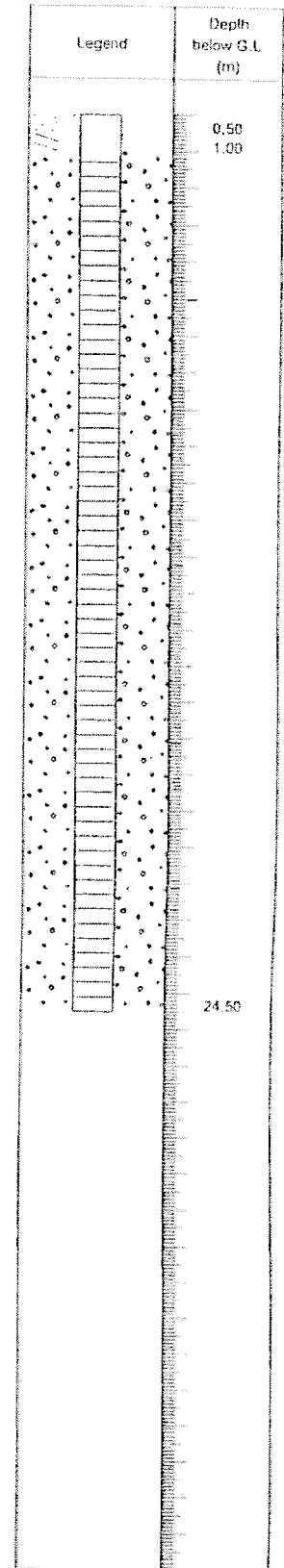
Remarks

Carried out for
GLASGOW CITY COUNCIL



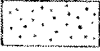
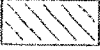


Location No 190055
Location WESTTHORN RECREATION GROUND,
LONDON ROAD, GLASGOW.

Type of installation:- GAS WELL
Date of installation:- 25/03/00
Internal diameter of tubing:- 50mm
Response zone:- Top=1.00m Base=24.50m
Diameter of filter:- 200mm

Depth (m)		Summary of installation
From	To	
		Surface protection:- Stand up cover.
0.00	0.50	Concrete
0.50	1.00	Bentonite seal
1.00	24.50	Gravel



KEY

-  Concrete
-  Sand
-  Gravel
-  Bentonite seal
-  Bentonite/cement grout
-  Backfill

Remarks
1 Ground level and co-ordinates as sheet 1.

Scale
1:200

Fig

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