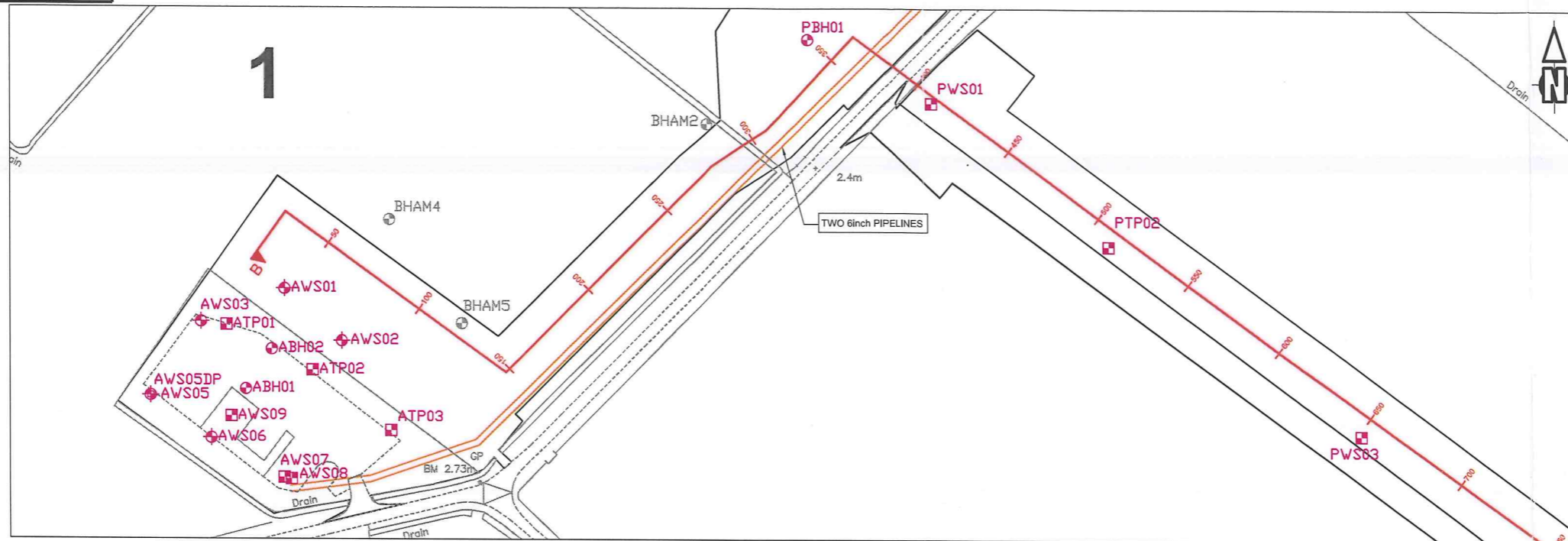
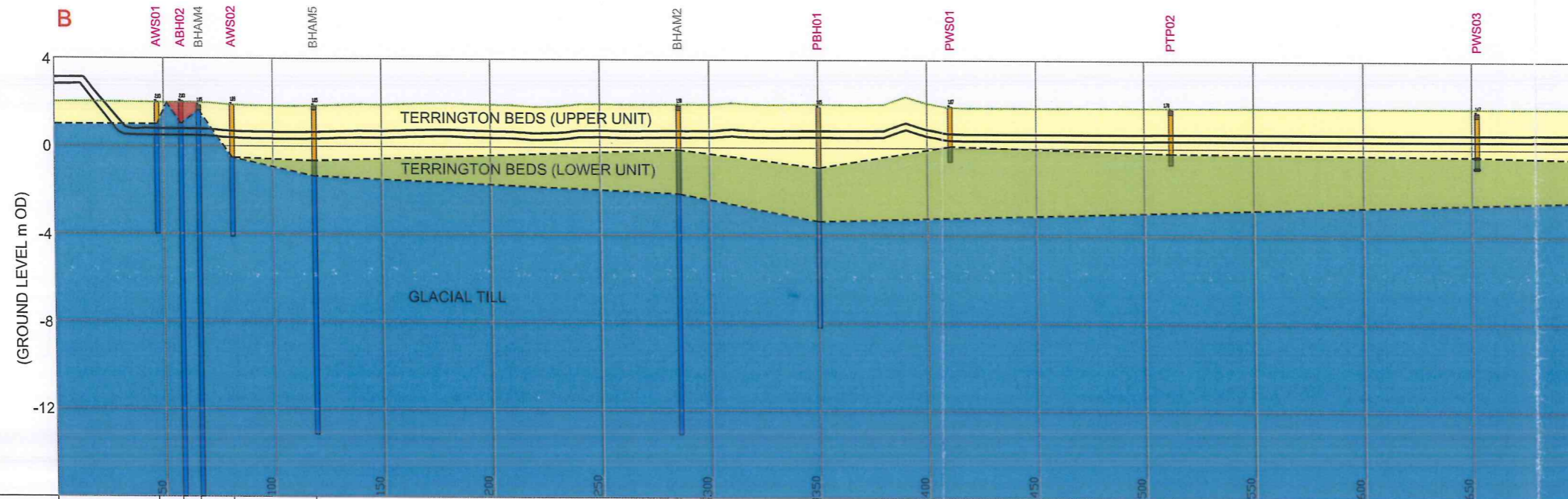


Appendix A. Pipeline Route Geological Long Sections



PLAN : SCALE 1:2500



EXISTING GROUND LEVEL (m OD)	CHAINAGE	INVERT LEVEL (m OD)
2	46	
2.03	57	
1.85	66	
1.89	80	
1.85	119	
1.90	286	
1.85	349	
1.87	410	
1.78	511	
1.80	512	
1.67	652	

LONGSECTION ALONG B-B' : SCALE HORZ 1:2500 VERT 1:250

ATKINS

Legend

- Fill Material
- Topsoil
- Terrington Beds (Upper Unit)
- Terrington Beds (Lower Unit)
- Peat
- Glacial Till

- Section Line
- Existing 10inch Pipeline
- Existing Pipeline
- Existing Ground Level
- Proposed Pipeline
- Indicative Geological Boundary
- 2011 Ground Investigation
- 1999 Ground Investigation

Notes:

- The stratigraphy shown is based on information from the nearest exploratory holes to the chosen section. The actual stratigraphy could differ from what is shown due to local variations in ground conditions.
- For information on groundwater please see the interpretative report.
- These drawings should not be used as service information drawings. Some pipeline information is shown where it was available from Fluor's baseline plans. The accuracy of this information and the potential presence of other services has not been checked by Atkins.
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- The ground surface profile, which was provided by Fluor, was developed from topographic survey data. At some locations, where the survey data is at a distance from the pipe-line route, the actual topographic profile will differ from that shown on this plan.

0	FOR CLIENT COMMENT	DH	29.07.11	AD	JB
REV	DESCRIPTION	BY	DATE	CHKD	AUTH

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TITLE:

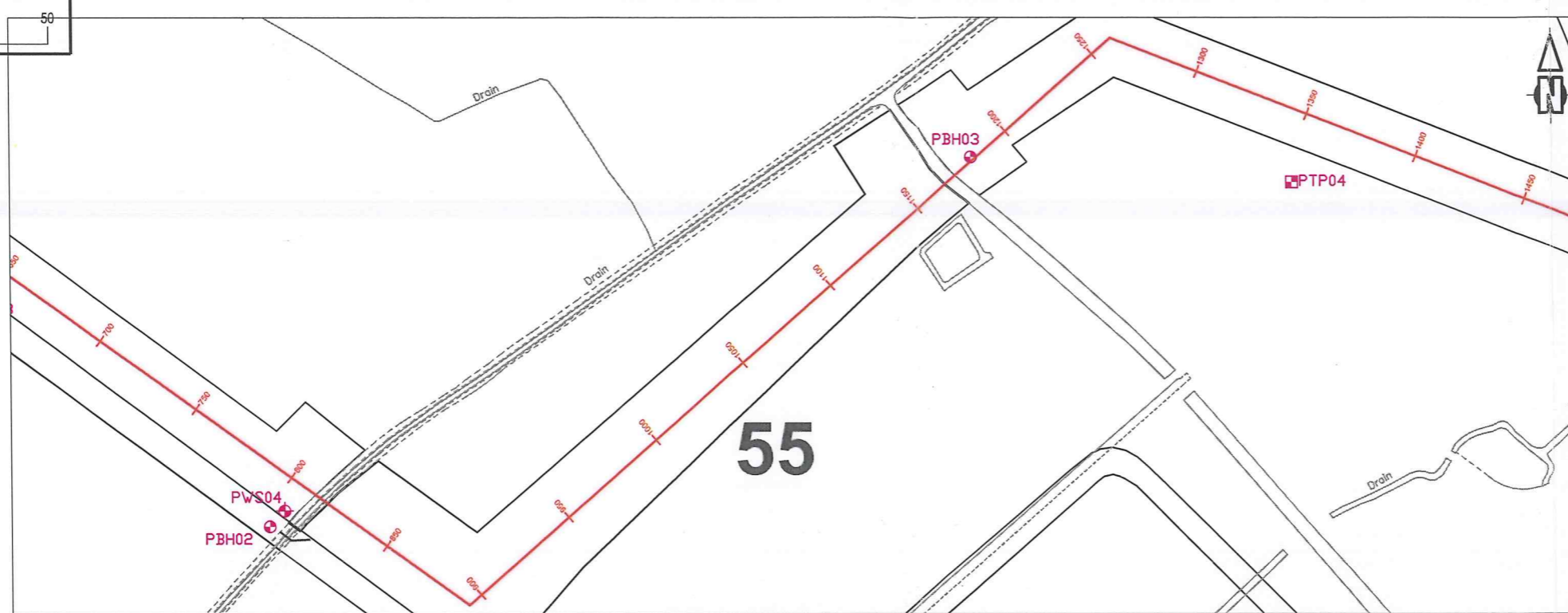
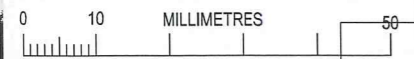
FIGURE 1 : PIPELINE ROUTE
 GEOLOGICAL LONG SECTION

SCALE:	ORIGINAL SIZE:	DESIGNED:	DRAWN:	CHECKED:	AUTHORISED:
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OFFICE:	DATE:	DATE:	DATE:	DATE:	DATE:
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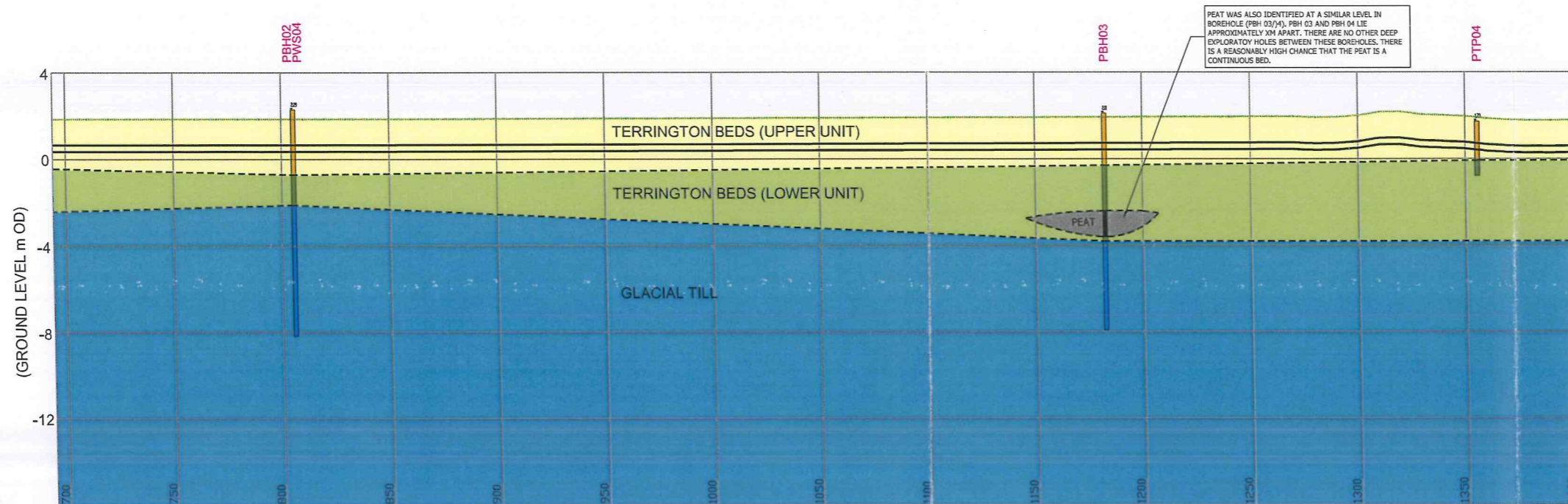
PROJECT NO:	REV:
5097367_GTG20093413	/0

PROJECT NO:
5097367_GTG20093413

REV:
/0



PLAN : SCALE 1:2500



PEAT WAS ALSO IDENTIFIED AT A SIMILAR LEVEL IN BOREHOLE (PBH 03/4). PBH 03 AND PBH 04 LIE APPROXIMATELY 3M APART. THERE ARE NO OTHER DEEP EXPLORATORY HOLES BETWEEN THESE BOREHOLES, THERE IS A REASONABLY HIGH CHANCE THAT THE PEAT IS A CONTINUOUS BED.

EXISTING GROUND LEVEL (m OD)		2.29		2.11		1.73
CHAINAGE		805		1181		1355
INVERT LEVEL (m OD)						

LONGSECTION ALONG B-B' : SCALE HORZ 1:2500 VERT 1:250

ATKINS

Legend

- Fill Material
- Topsoil
- Terrington Beds (Upper Unit)
- Terrington Beds (Lower Unit)
- Peat
- Glacial Till

- Section Line
- Existing 10inch Pipeline
- Existing Pipeline
- Existing Ground Level
- Proposed Pipeline
- Indicative Geological Boundary
- 2011 Ground Investigation
- 1999 Ground Investigation

Notes:

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2. For information on groundwater please see the interpretative report.
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5. The ground surface profile, which was provided by Fluor, was developed from topographic survey data. At some locations, where the survey data is at a distance from the pipe-line route, the actual topographic profile will differ from that shown on this plan.

0	FOR CLIENT COMMENT	DH	29.07.11	AD	JB
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TITLE:

FIGURE 2 : PIPELINE ROUTE
GEOLOGICAL LONG SECTION

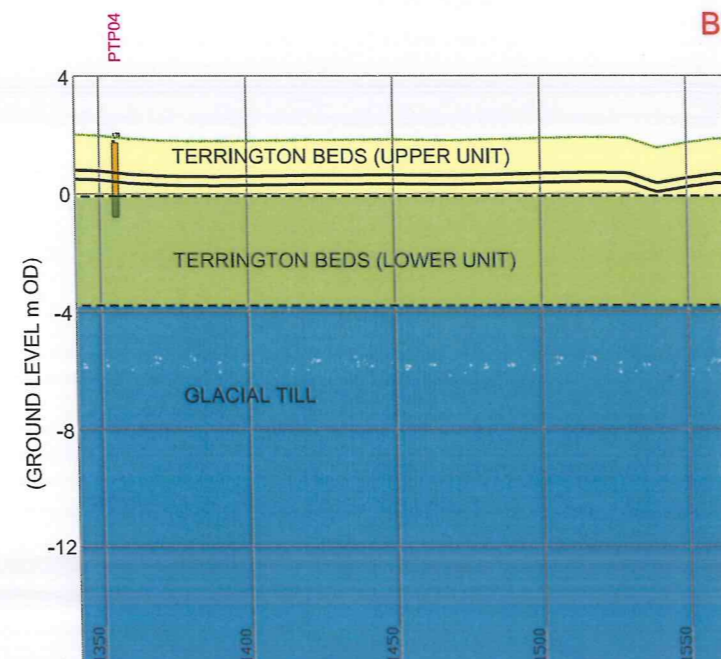
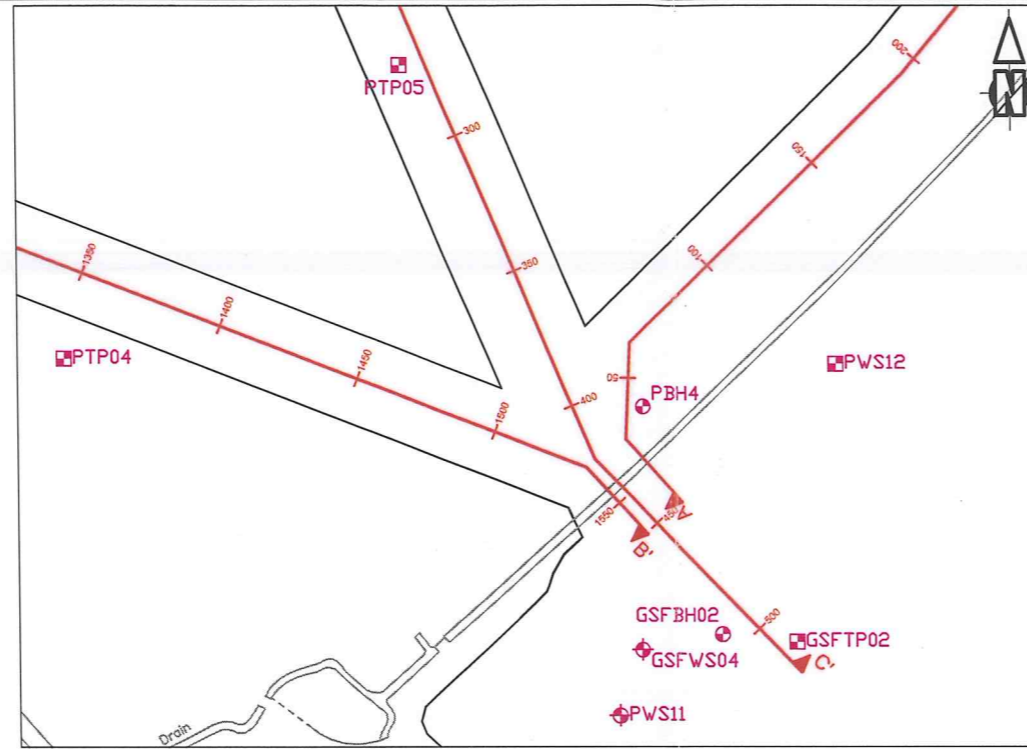
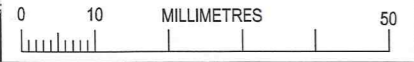
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SHOWN	OFFICE:	DATE: 29.07.11	DATE: 29.07.11	DATE: 29.07.11	DATE: 29.07.11

PROJECT NO: 5097367_GTG20093413

REV: /0

PROJECT NO: 5097367_GTG20093413

REV: /0



LONGSECTION ALONG B-B' : SCALE HORZ 1:2500 VERT 1:250

ATKINS

- Legend**
- Fill Material
 - Topsoil
 - Terrington Beds (Upper Unit)
 - Terrington Beds (Lower Unit)
 - Peat
 - Glacial Till
- Section Line**
- Existing 10 inch Pipeline
 - Existing Pipeline
 - Existing Ground Level
 - Proposed Pipeline
 - Indicative Geological Boundary
- Notes:**
- The stratigraphy shown is based on information from the nearest exploratory holes to the chosen section. The actual stratigraphy could differ from what is shown due to local variations in ground conditions.
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 - The stratigraphy shown is a conjecture, based on information from the nearest exploratory holes to the chosen section. The actual stratigraphy could differ from what is shown due to local variations in ground conditions.
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0	FOR CLIENT COMMENT	DH	29.07.11	AD	JB
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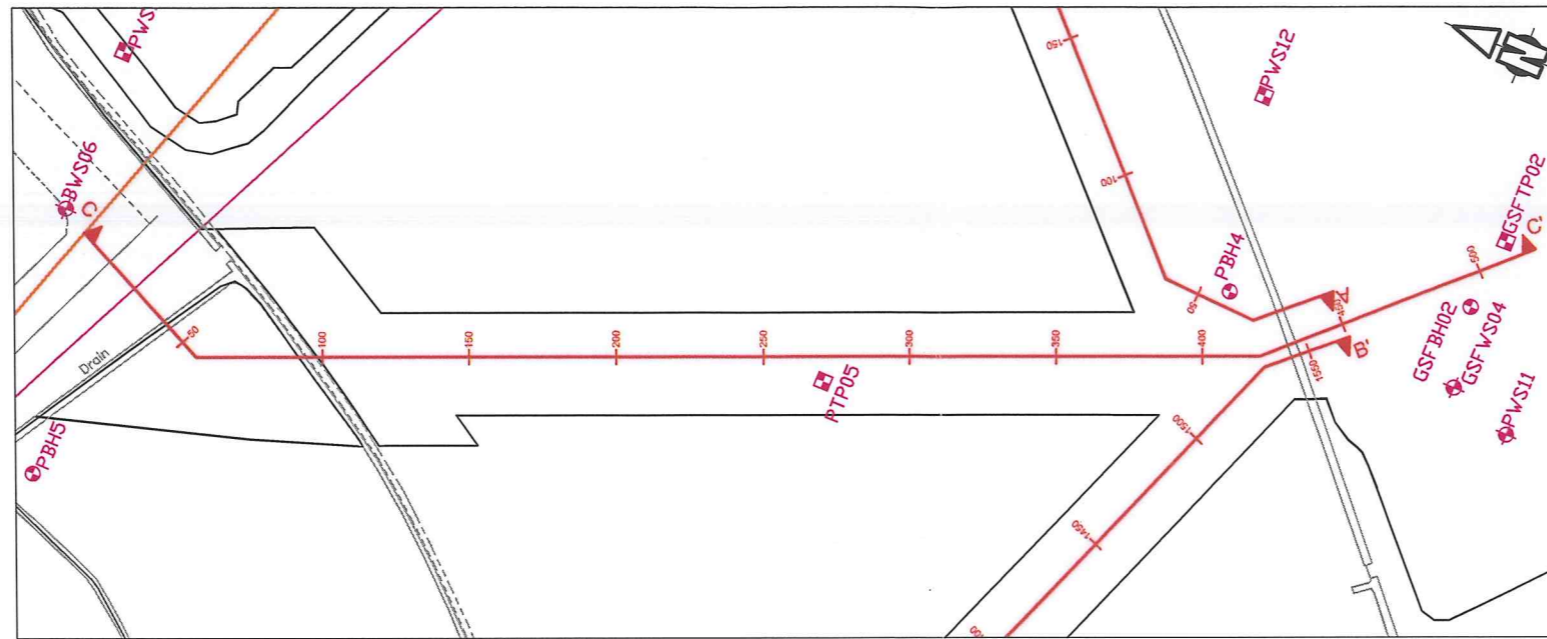
PROJECT:
 UGS SALTFLEETBY

TITLE:
 FIGURE 3 : PIPELINE ROUTE
 GEOLOGICAL LONG SECTION

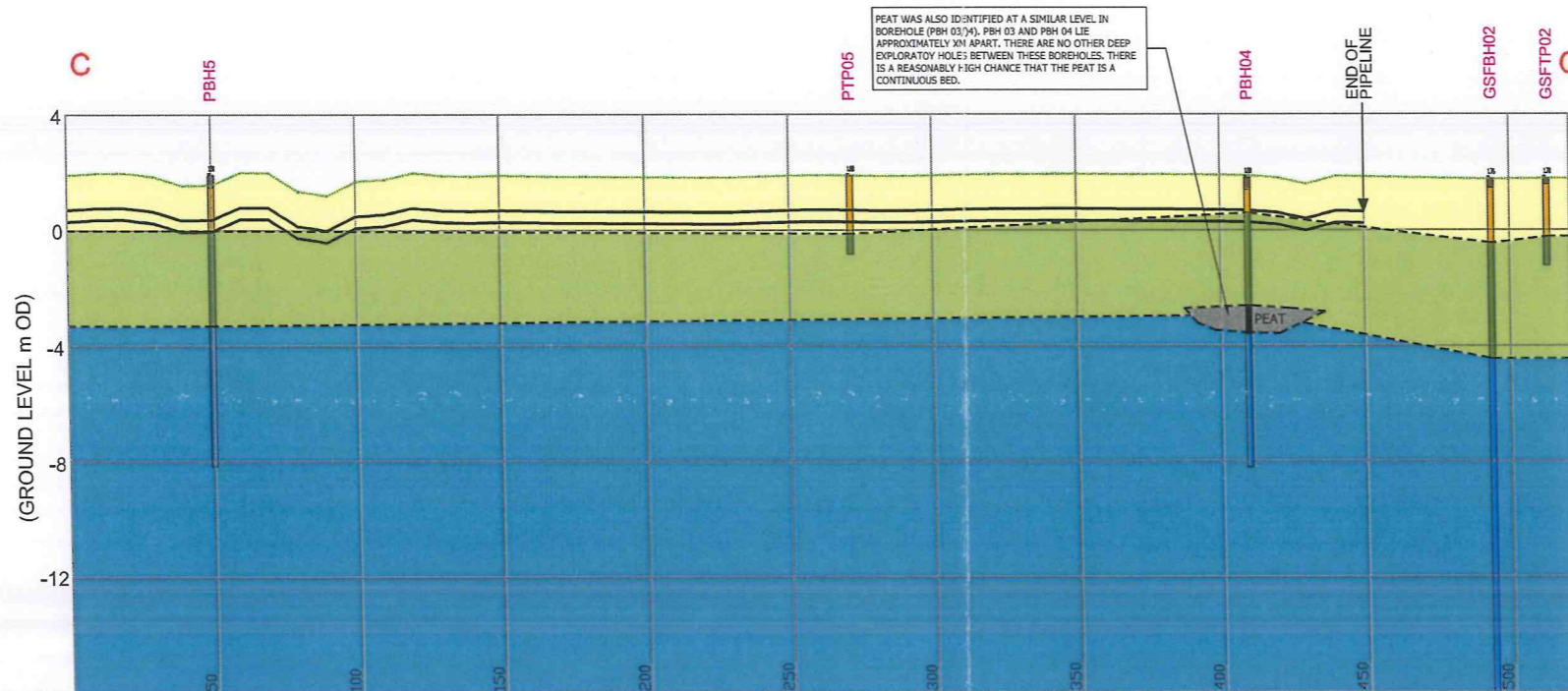
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OFFICE:	DATE:	DATE:	DATE:	DATE:	DATE:
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PROJECT NO:	5097367_GTG20093413				REV:
					0

PROJECT NO: 5097367_GTG20093413

REV: 0



PLAN : SCALE 1:2500



PEAT WAS ALSO IDENTIFIED AT A SIMILAR LEVEL IN BOREHOLE (PBH 03/4). PBH 03 AND PBH 04 LIE APPROXIMATELY 20M APART. THERE ARE NO OTHER DEEP EXPLORATORY HOLES BETWEEN THESE BOREHOLES, THERE IS A REASONABLY HIGH CHANCE THAT THE PEAT IS A CONTINUOUS BED.

EXISTING GROUND LEVEL (m OD)	1.91	1.88	1.85	1.76	1.78
CHAINAGE	49	271	410	493	512
INVERT LEVEL (m OD)					

LONGSECTION ALONG C-C' : SCALE HORZ 1:2500 VERT 1:250

ATKINS

Legend

- Fill Material
- Topsoil
- Terrington Beds (Upper Unit)
- Terrington Beds (Lower Unit)
- Peat
- Glacial Till

- Section Line
- Existing 10inch Pipeline
- Existing Pipeline
- Existing Ground Level
- Proposed Pipeline
- Indicative Geological Boundary
- 2011 Ground Investigation
- 1999 Ground Investigation

Notes:

- The stratigraphy shown is based on information from the nearest exploratory holes to the chosen section. The actual stratigraphy could differ from what is shown due to local variations in ground conditions.
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PROJECT:
 UGS SALT FLEETBY

TITLE:
 FIGURE 4 : PIPELINE ROUTE 2
 GEOLOGICAL LONG SECTION

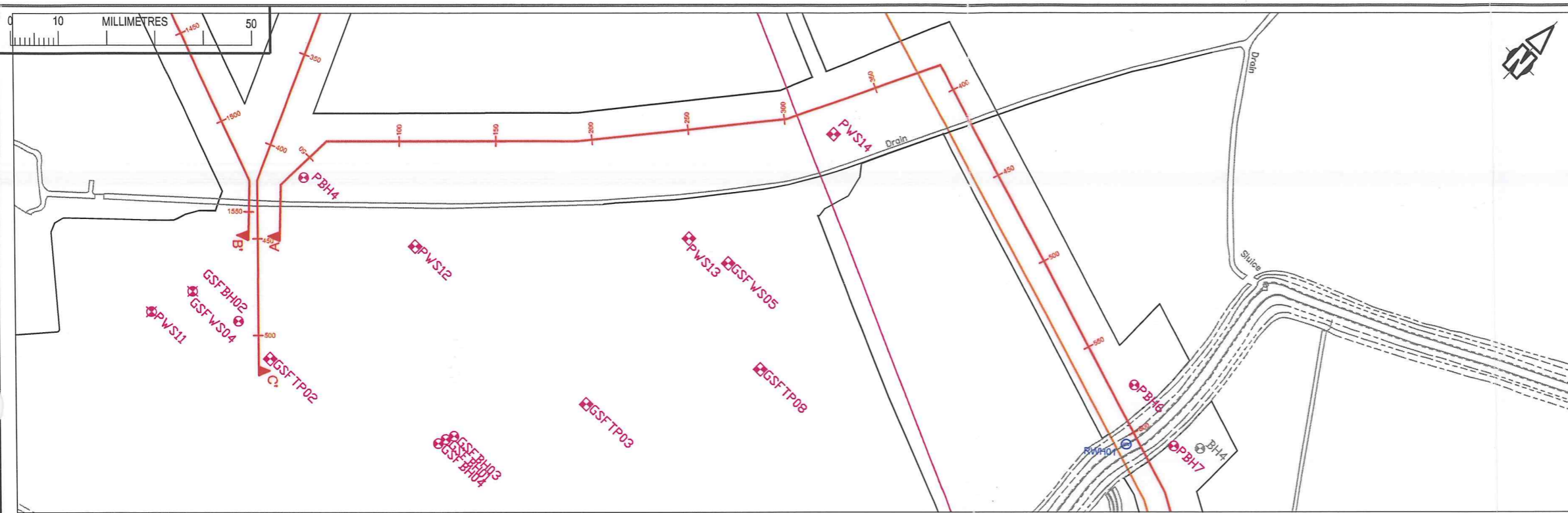
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PROJECT NO:
 5097367_GTG20093413

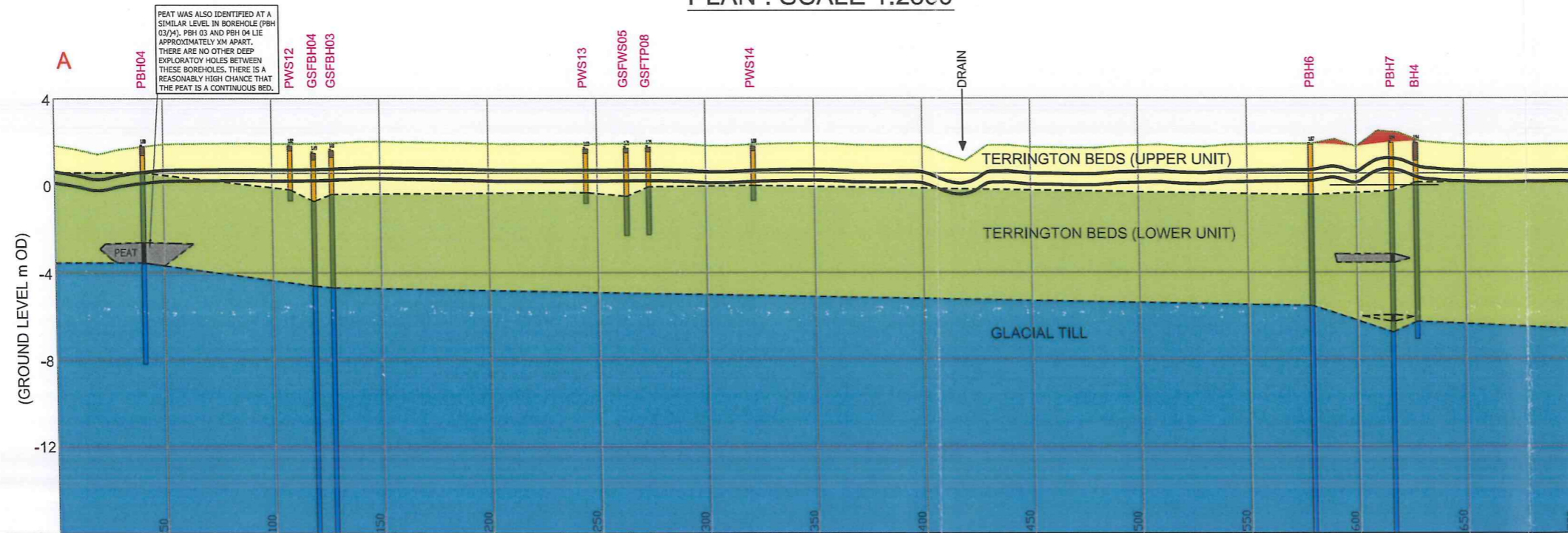
PROJECT NO: 5097367_GTG20093413

REV: /0

REV: /0



PLAN : SCALE 1:2500



PEAT WAS ALSO IDENTIFIED AT A SIMILAR LEVEL IN BOREHOLE (PBH 03/04). PBH 03 AND PBH 04 LIE APPROXIMATELY 2M APART. THERE ARE NO OTHER DEEP EXPLORATORY HOLES BETWEEN THESE BOREHOLES. THERE IS A REASONABLY HIGH CHANCE THAT THE PEAT IS A CONTINUOUS BED.

EXISTING GROUND LEVEL (m OD)	CHAINAGE	INVERT LEVEL (m OD)
1.85	41	
1.82	108	
1.49	118	
1.61	127	
1.68	244	
1.71	263	
1.75	273	
1.80	321	
1.87	578	
1.94	616	

LONGSECTION ALONG A-A' : SCALE HORZ 1:2500 VERT 1:250

ATKINS

Legend

- Fill Material
- Topsoil
- Terrington Beds (Upper Unit)
- Terrington Beds (Lower Unit)
- Peat
- Glacial Till
- Section Line
- Existing 10inch Pipeline
- Existing Pipeline
- Existing Ground Level
- Proposed Pipeline
- Indicative Geological Boundary
- 2011 Ground Investigation
- 1999 Ground Investigation
- Surface Water Sample

Notes:

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0	FOR CLIENT COMMENT	DH	29.07.11	AD	JB
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 Hampshire GU14 7BF

PROJECT:
 UGS SALT FLEETBY

TITLE:
 FIGURE 5 : PIPELINE ROUTE
 GEOLOGICAL LONG SECTION

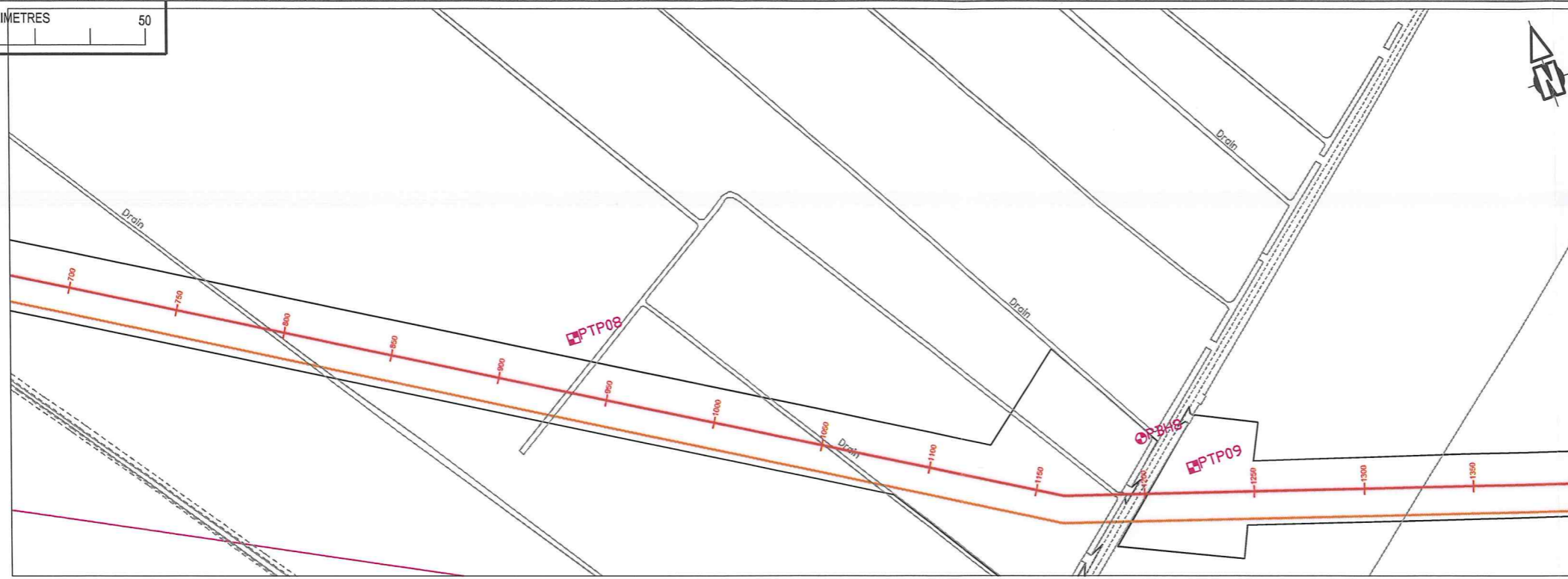
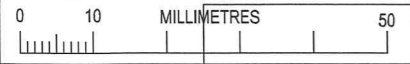
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OFFICE:	DATE:	DATE:	DATE:	DATE:	DATE:
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PROJECT NO:
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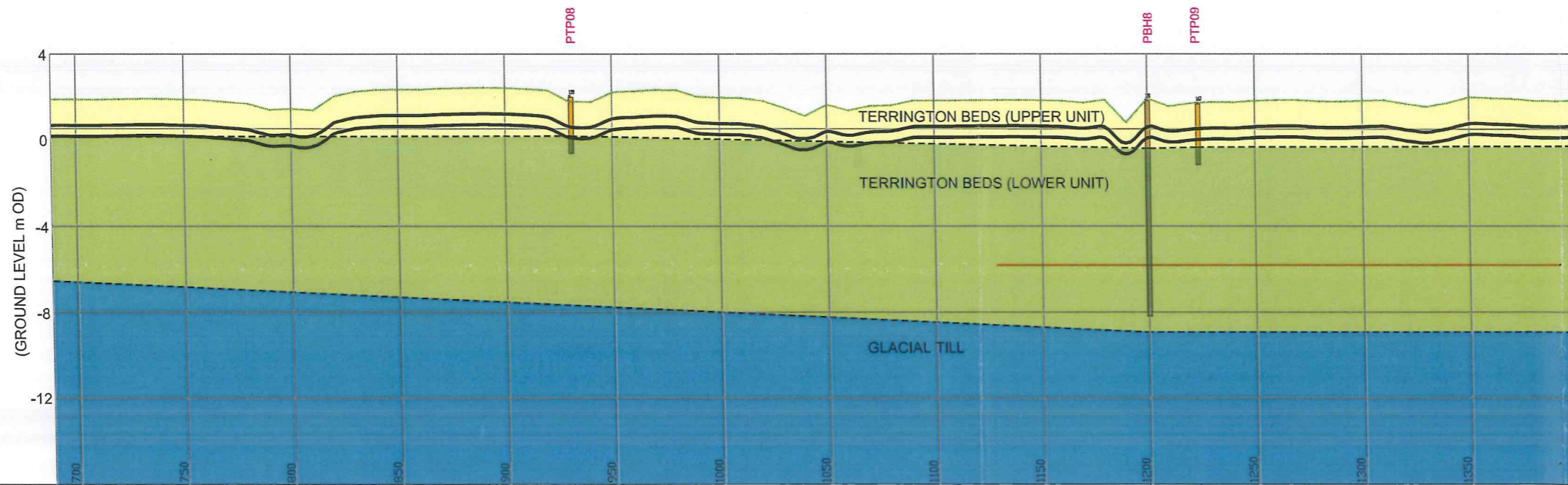
PROJECT NO: 5097367_GTG20093413

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REV: /0



PLAN : SCALE 1:2500



EXISTING GROUND LEVEL (m OD)		1.99	1.81	1.67
CHAINAGE		930	1199	1223
INVERT LEVEL (m OD)				

LONGSECTION ALONG A-A' : SCALE HORZ 1:2500 VERT 1:250

ATKINS

- Legend**
- Fill Material
 - Topsoil
 - Terrington Beds (Upper Unit)
 - Terrington Beds (Lower Unit)
 - Peat
 - Glacial Till
 - Section Line
 - Existing 10inch Pipeline
 - Existing Pipeline
 - Existing Ground Level
 - Proposed Pipeline
 - Indicative Geological Boundary
 - 2011 Ground Investigation
 - 1999 Ground Investigation
 - Surface Water Sample

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0	FOR CLIENT COMMENT	DH	29.07.11	AD	JB
REV	DESCRIPTION	BY	DATE	CHK'D	AUTH

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PROJECT:
 UGS SALTFLEETBY

TITLE:
 FIGURE 6 : PIPELINE ROUTE
 GEOLOGICAL LONG SECTION

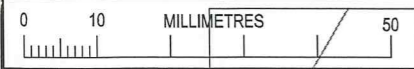
SCALE:	ORIGINAL SIZE:	DESIGNED:	DRAWN:	CHECKED:	AUTHORISED:
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PROJECT NO:
5097367_GTG20093413

REV:
/0

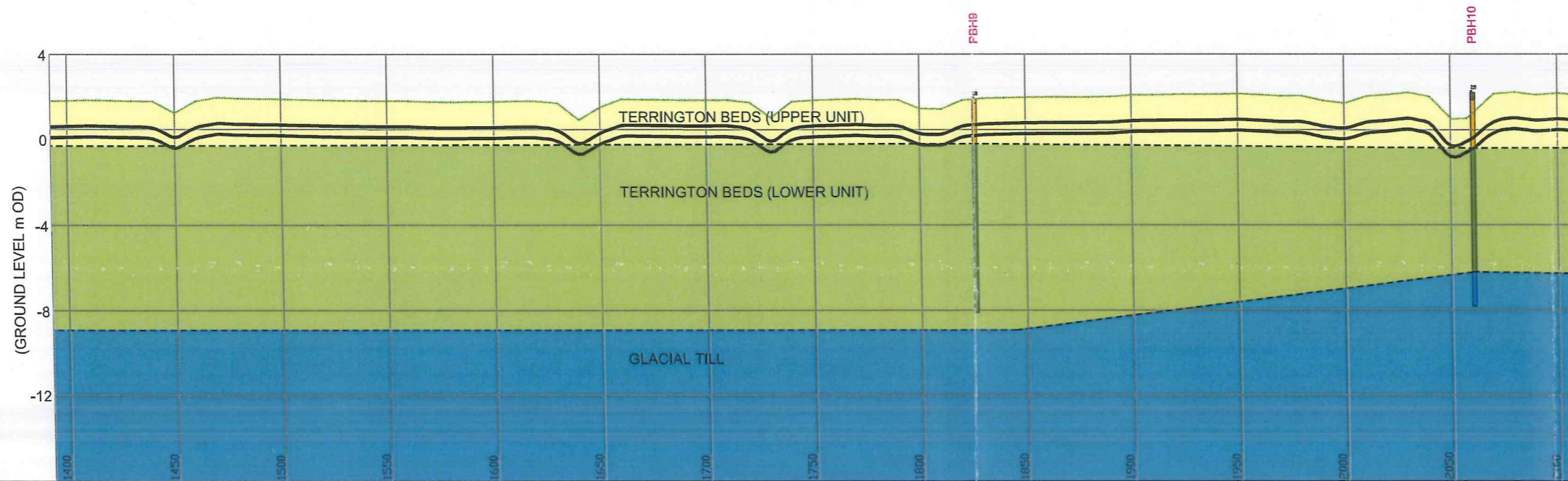


PLAN : SCALE 1:2500

ATKINS

- Legend**
- Fill Material
 - Topsoil
 - Terrington Beds (Upper Unit)
 - Terrington Beds (Lower Unit)
 - Peat
 - Glacial Till
 - Section Line
 - Existing 10inch Pipeline
 - Existing Pipeline
 - Existing Ground Level
 - Proposed Pipeline
 - Indicative Geological Boundary
 - 2011 Ground Investigation
 - 1999 Ground Investigation
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EXISTING GROUND LEVEL (m OD)		1.90	2.19
CHAINAGE		1825	2048
INVERT LEVEL (m OD)			

LONGSECTION ALONG A-A' : SCALE HORZ 1:2500 VERT 1:250

PROJECT NO: 5097367_GTG20093413

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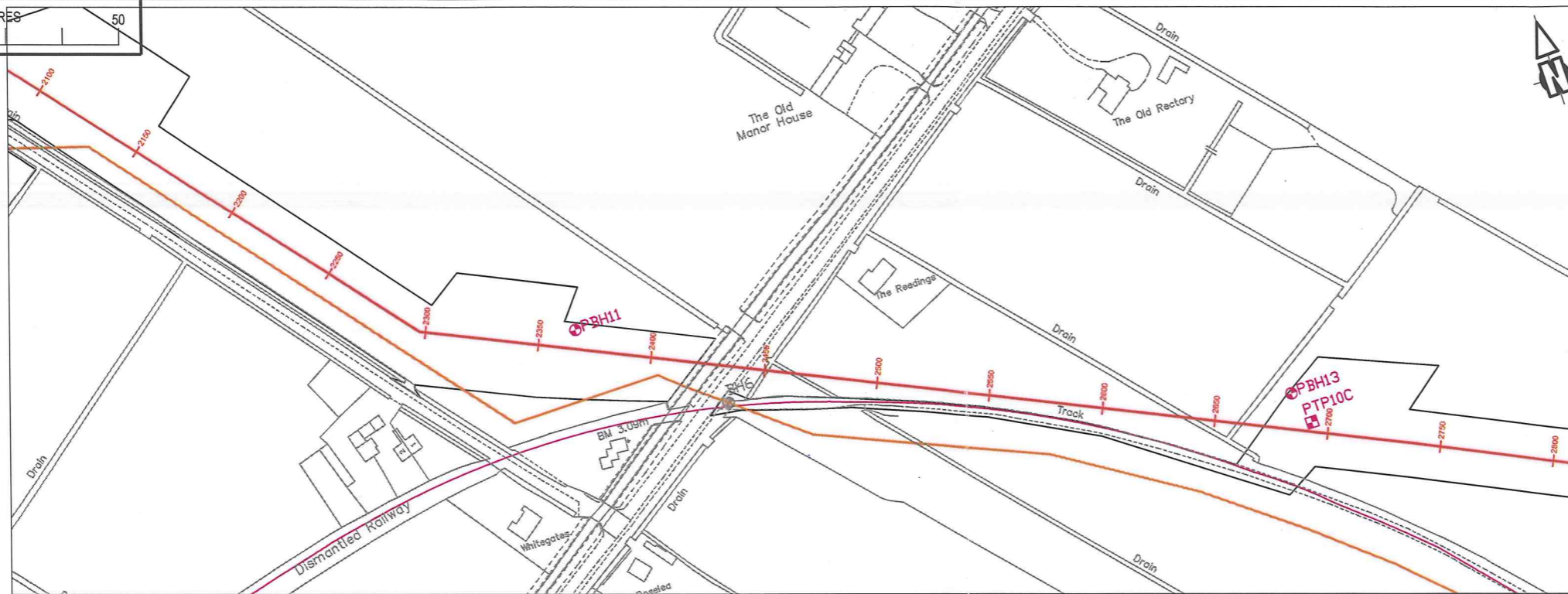
UGS SALT FLEETBY

TITLE:

FIGURE 7 : PIPELINE ROUTE
GEOLOGICAL LONG SECTION

SCALE:	ORIGINAL SIZE:	DESIGNED:	DRAWN:	CHECKED:	AUTHORISED:
SHOWN	A3	RS	DH	AD	JB
OFFICE:	DATE:	DATE:	DATE:	DATE:	DATE:
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PROJECT NO: 5097367_GTG20093413 REV: /0

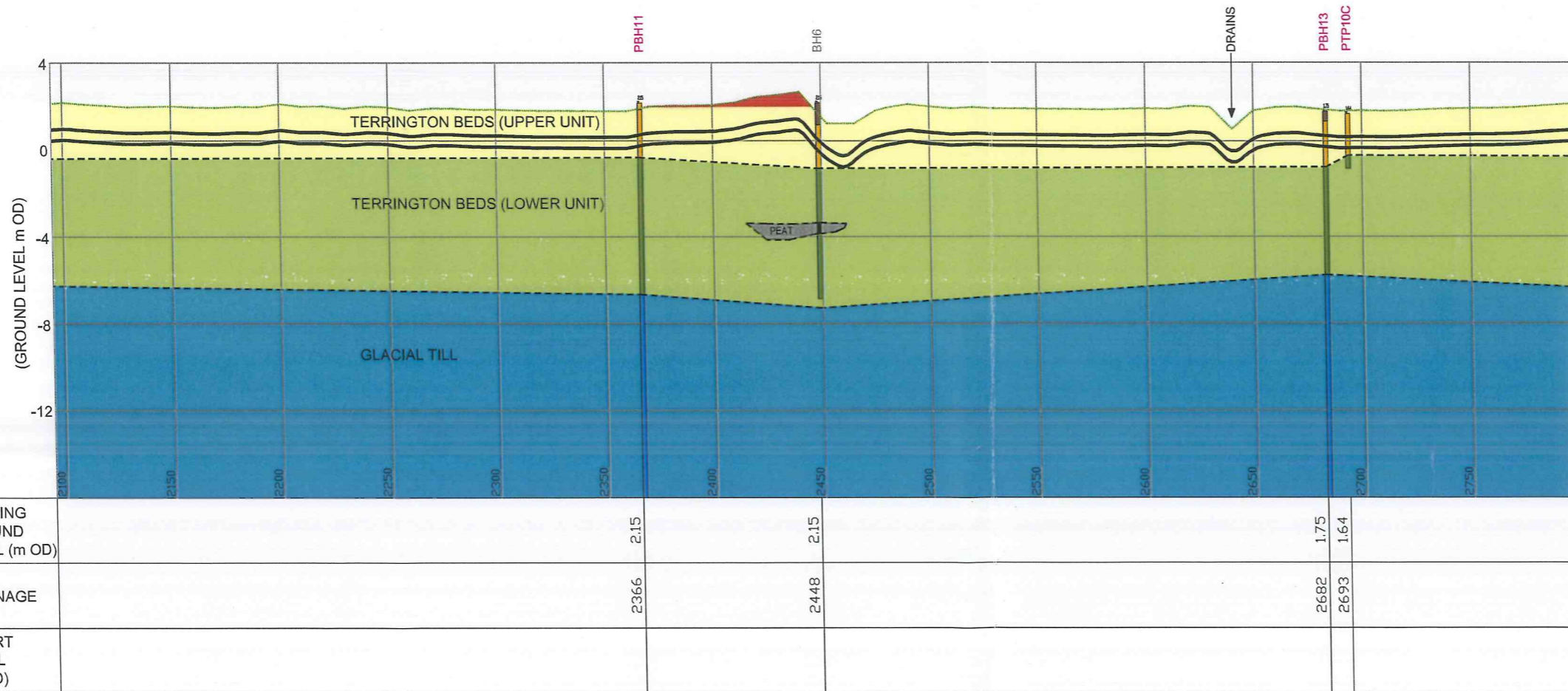


PLAN : SCALE 1:2500

ATKINS

- Legend**
- Fill Material
 - Topsoil
 - Terrington Beds (Upper Unit)
 - Terrington Beds (Lower Unit)
 - Peat
 - Glacial Till
 - Section Line
 - Existing 10inch Pipeline
 - Existing Pipeline
 - Existing Ground Level
 - Proposed Pipeline
 - Indicative Geological Boundary
 - 2011 Ground Investigation
 - 1999 Ground Investigation
 - Surface Water Sample

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LONGSECTION ALONG A-A' : SCALE HORZ 1:2500 VERT 1:250

PROJECT NO: 5097367_GTG20093413

REV: /0

FOR CLIENT COMMENT	DH	29.07.11	AD	JB
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REV	DESCRIPTION	BY	DATE	CHK'D	AUTH
Atkins Limited Chadwick House Birchwood Park Warrington WA3 6AE England Telephone +44(0)1925 238000 Fax +44(0)1925 238500					

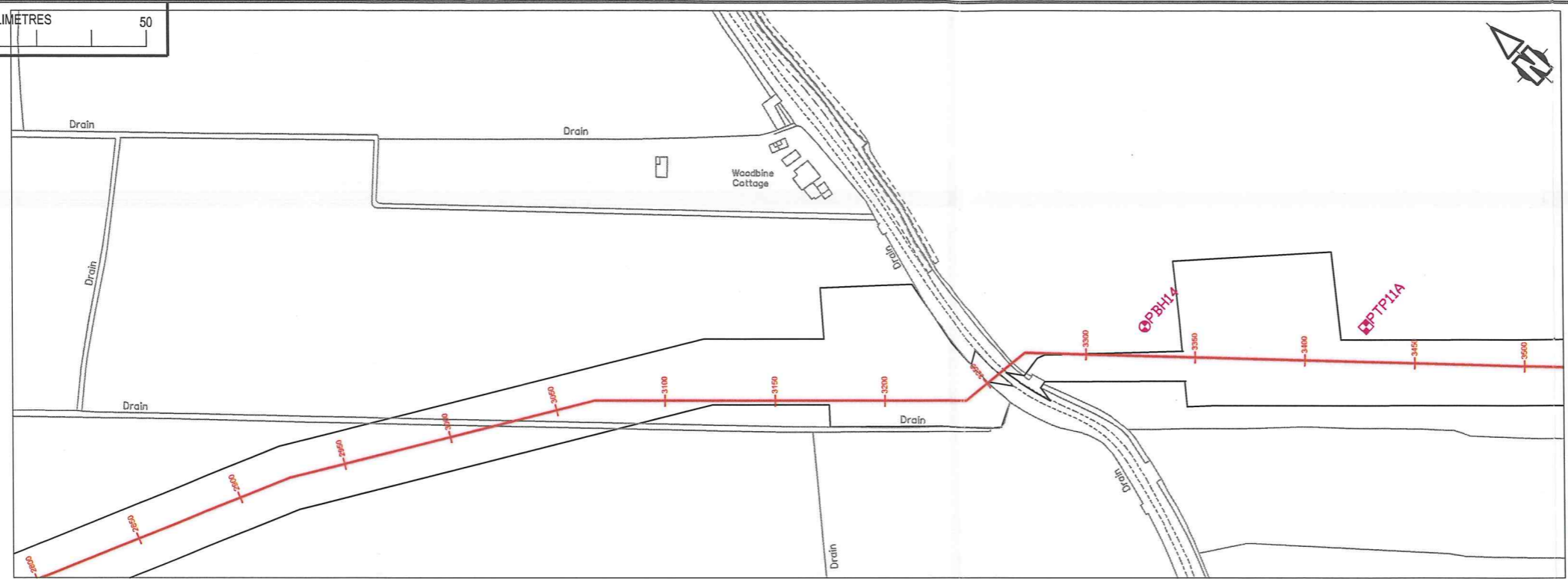
CLIENT:	Fluor Limited Fluor Centre 140 Pinehurst Road Farnborough Hampshire GU14 7BF
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PROJECT: UGS SALTFLLEETBY

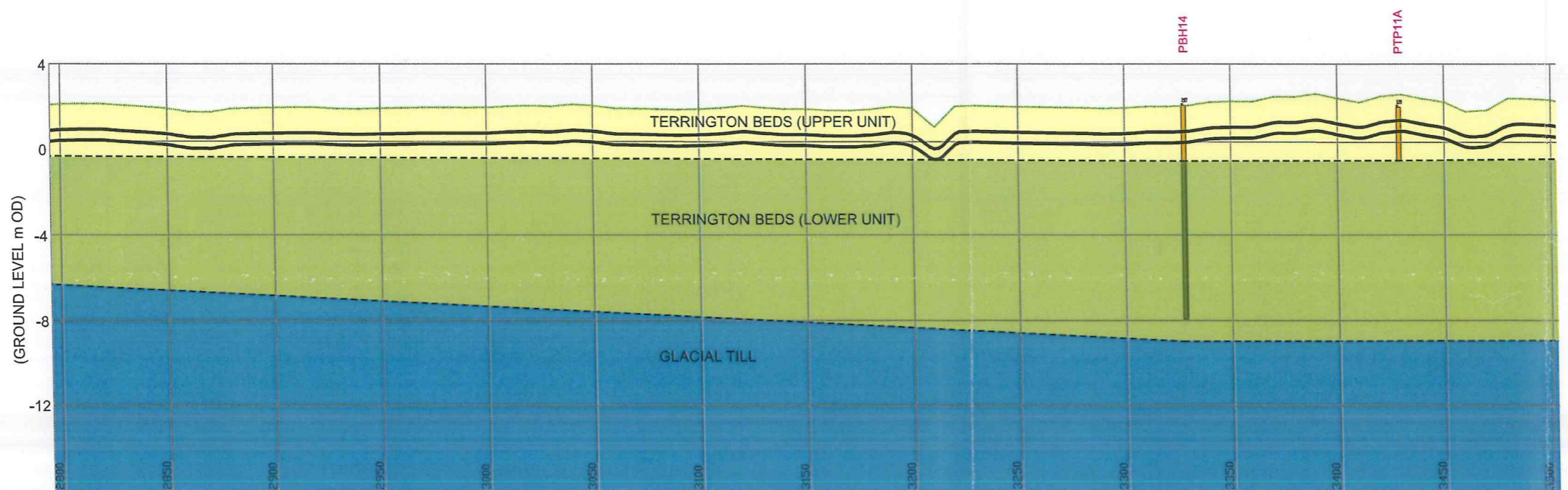
TITLE: FIGURE 8 : PIPELINE ROUTE GEOLOGICAL LONG SECTION

SCALE:	ORIGINAL SIZE:	DESIGNED:	DRAWN:	CHECKED:	AUTHORISED:
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	OFFICE:	DATE:	DATE:	DATE:	DATE:
		29.07.11	29.07.11	29.07.11	29.07.11

PROJECT NO: 5097367_GTG20093413 /0



PLAN : SCALE 1:2500



EXISTING GROUND LEVEL (m OD)	2.900	2.950	2.900	2.950	2.900	2.950	3.000	3.050	3.100	3.150	3.200	3.250	3.300	3.350	3.400	3.450
CHAINAGE									3327						3428	
INVERT LEVEL (m OD)																

LONGSECTION ALONG A-A' : SCALE HORIZ 1:2500 VERT 1:250

ATKINS

Legend

- Fill Material
- Topsoil
- Terrington Beds (Upper Unit)
- Terrington Beds (Lower Unit)
- Peat
- Glacial Till

- Section Line
- Existing 10inch Pipeline
- Existing Pipeline
- Existing Ground Level
- Proposed Pipeline
- Indicative Geological Boundary
- 2011 Ground Investigation
- 1999 Ground Investigation
- Surface Water Sample

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TITLE:
FIGURE 9 : PIPELINE ROUTE
GEOLOGICAL LONG SECTION

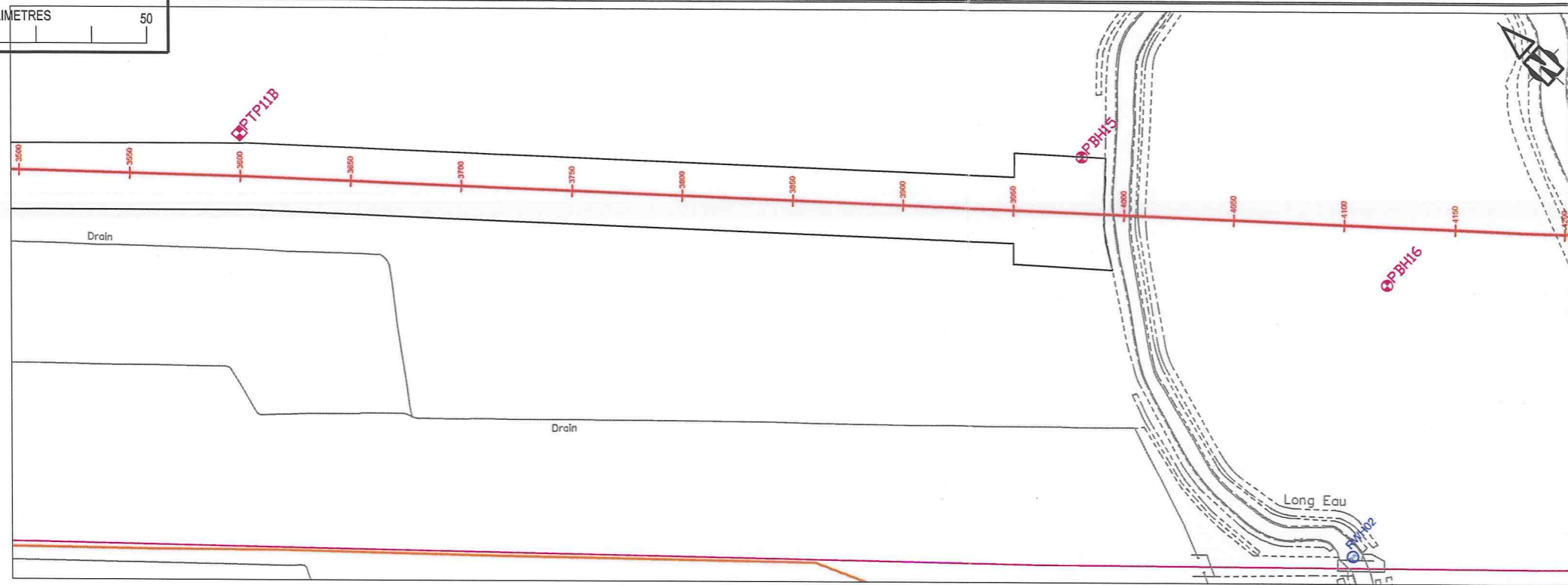
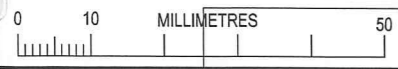
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	OFFICE:	DATE:	DATE:	DATE:	DATE:
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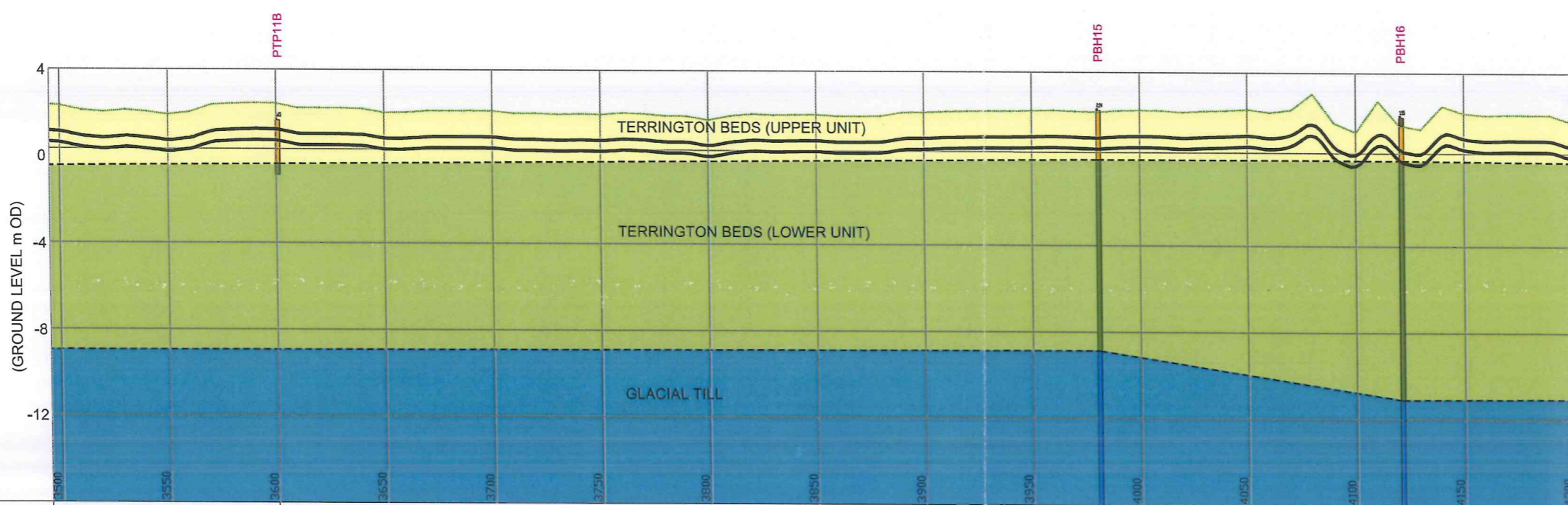
REV:
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5097367_GTG20093413

REV:
0



PLAN : SCALE 1:2500



EXISTING GROUND LEVEL (m OD)		1.65		2.24		1.95	
CHAINAGE		3600		3980		4120	
INVERT LEVEL (m OD)							

LONGSECTION ALONG A-A' : SCALE HORZ 1:2500 VERT 1:250

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- Legend**
- Fill Material
 - Topsoil
 - Terrington Beds (Upper Unit)
 - Terrington Beds (Lower Unit)
 - Peat
 - Glacial Till
- Notes:**
- The stratigraphy shown is based on information from the nearest exploratory holes to the chosen section. The actual stratigraphy could differ from what is shown due to local variations in ground conditions.
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TITLE:

FIGURE 10 : PIPELINE ROUTE
GEOLOGICAL LONG SECTION

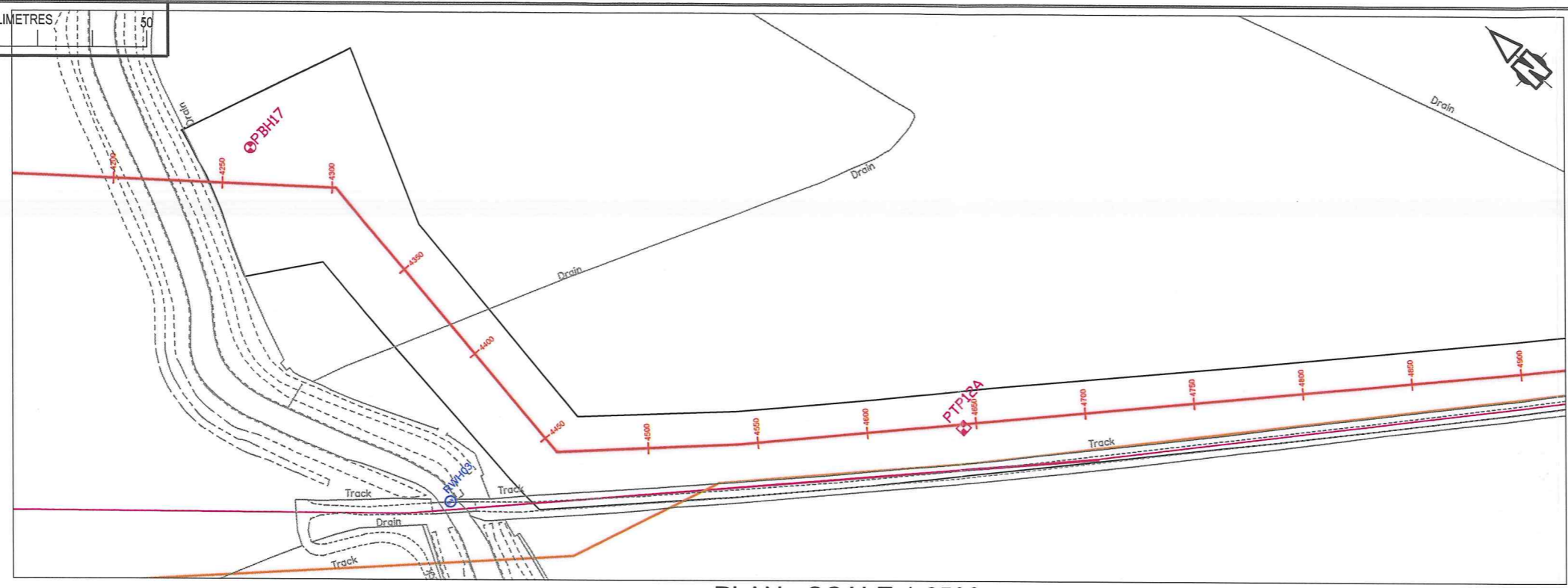
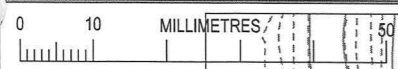
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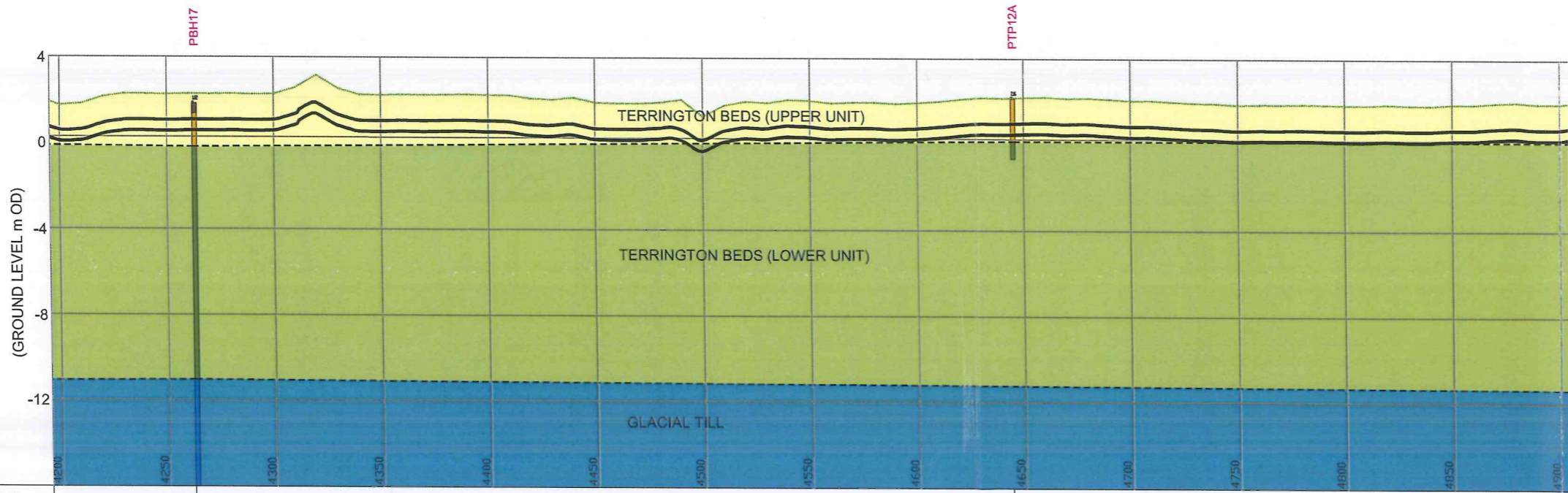
REV: /0

PROJECT NO: 5097367_GTG20093

REV: /0



PLAN : SCALE 1:2500



EXISTING GROUND LEVEL (m OD)	1.82	2.16
CHAINAGE	4262	4644
INVERT LEVEL (m OD)		

LONGSECTION ALONG A-A' : SCALE HORZ 1:2500 VERT 1:250

ATKINS

Legend

Fill Material	Terrington Beds (Lower Unit)
Topsoil	Peat
Terrington Beds (Upper Unit)	Glacial Till

- Section Line
- Existing 10inch Pipeline
- Existing Pipeline
- Existing Ground Level
- Proposed Pipeline
- Indicative Geological Boundary
- 2011 Ground Investigation
- 1999 Ground Investigation
- Surface Water Sample

- Notes:**
- The stratigraphy shown is based on information from the nearest exploratory holes to the chosen section. The actual stratigraphy could differ from what is shown due to local variations in ground conditions.
 - For information on groundwater please see the interpretative report.
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TITLE:

FIGURE 11 : PIPELINE ROUTE
GEOLOGICAL LONG SECTION

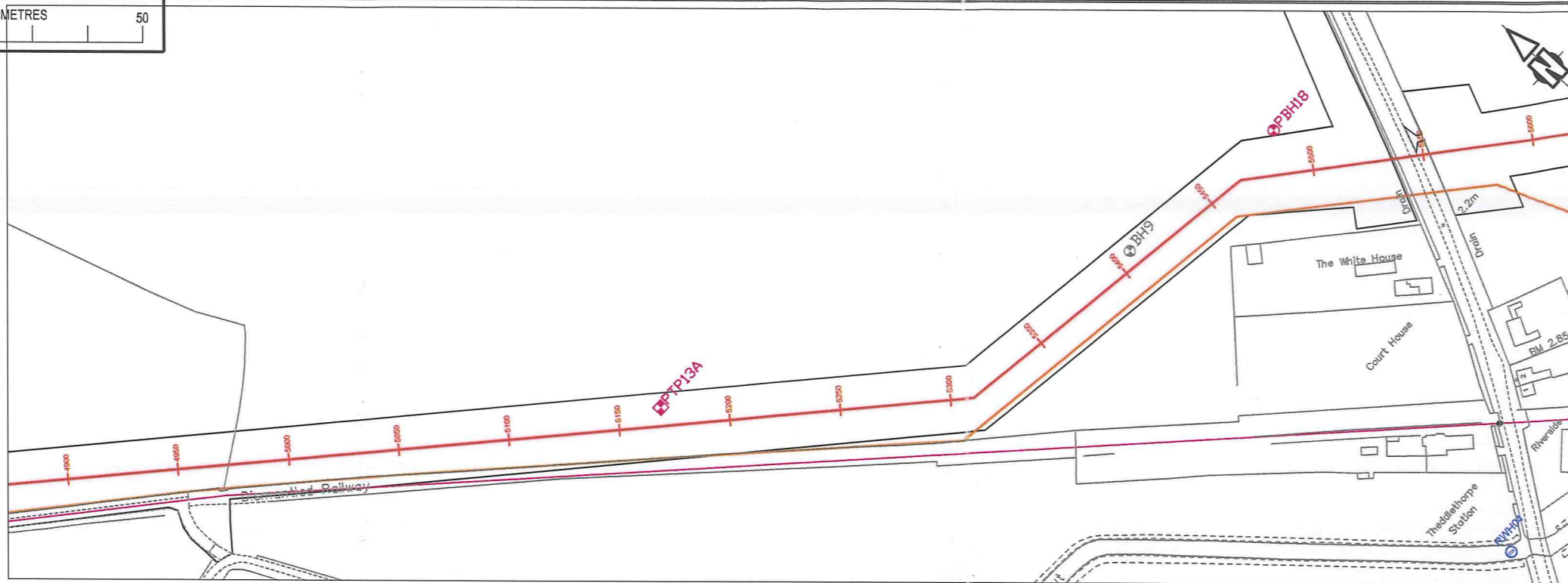
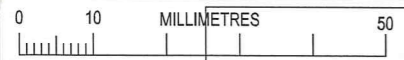
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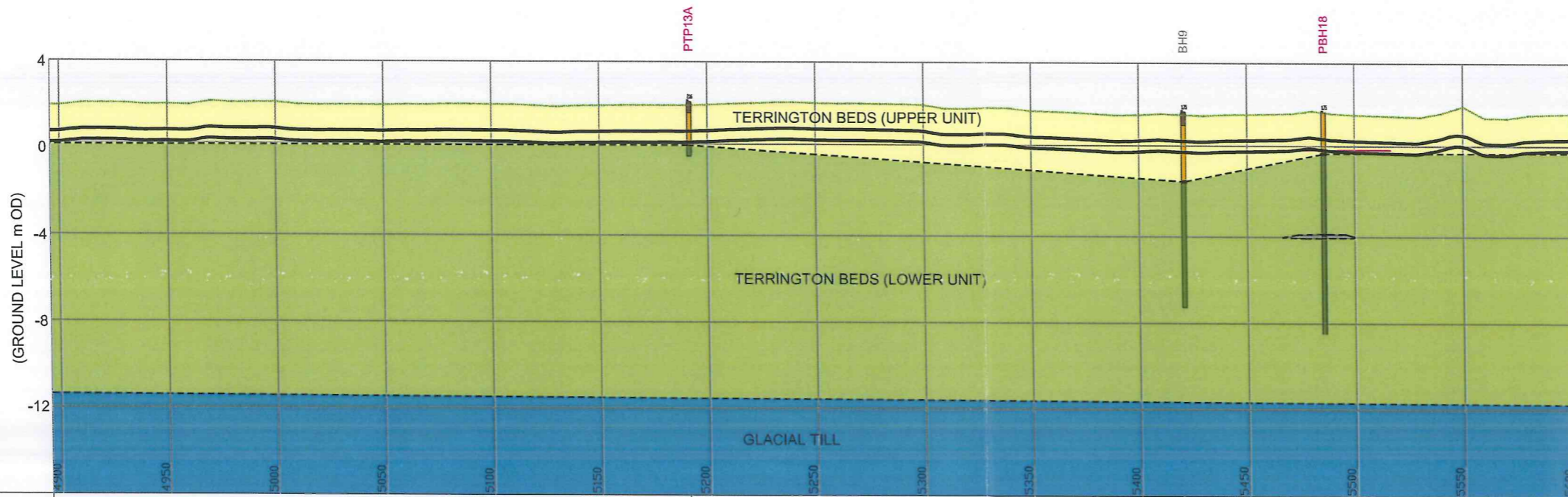
REV: 0

PROJECT NO: 5097367_GTG20093413

REV: 0



PLAN : SCALE 1:2500



EXISTING GROUND LEVEL (m OD)	CHAINAGE	INVERT LEVEL (m OD)
2.16	5190	
1.75	5420	
1.75	5485	

LONGSECTION ALONG A-A' : SCALE HORZ 1:2500 VERT 1:250

ATKINS

Legend

Fill Material	Terrington Beds (Lower Unit)
Topsoil	Peat
Terrington Beds (Upper Unit)	Glacial Till

- Section Line
- Existing 10inch Pipeline
- Existing Pipeline
- Existing Ground Level
- Proposed Pipeline
- Indicative Geological Boundary
- 2011 Ground Investigation
- 1999 Ground Investigation
- Surface Water Sample

- Notes:
- The stratigraphy shown is based on information from the nearest exploratory holes to the chosen section. The actual stratigraphy could differ from what is shown due to local variations in ground conditions.
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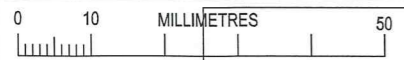
TITLE:
 FIGURE 12 : PIPELINE ROUTE
 GEOLOGICAL LONG SECTION

SCALE:	ORIGINAL SIZE:	DESIGNED:	DRAWN:	CHECKED:	AUTHORISED:
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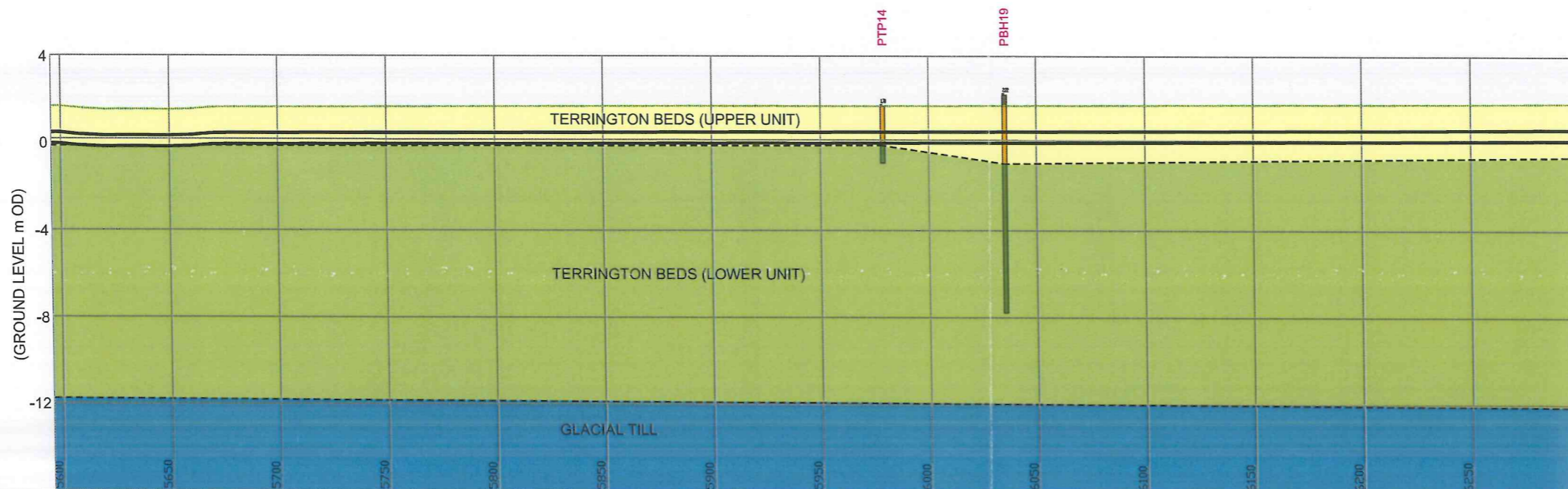
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 5097367_GTG20093413

REV:
 / 0



PLAN : SCALE 1:2500



EXISTING GROUND LEVEL (m OD)	CHAINAGE	INVERT LEVEL (m OD)
	5978	1.70
	6035	2.22

LONGSECTION ALONG A-A' : SCALE HORZ 1:2500 VERT 1:250

ATKINS

- Legend**
- Fill Material
 - Topsoil
 - Terrington Beds (Upper Unit)
 - Terrington Beds (Lower Unit)
 - Peat
 - Glacial Till
- Notes:**
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TITLE:

FIGURE 13 : PIPELINE ROUTE
GEOLOGICAL LONG SECTION

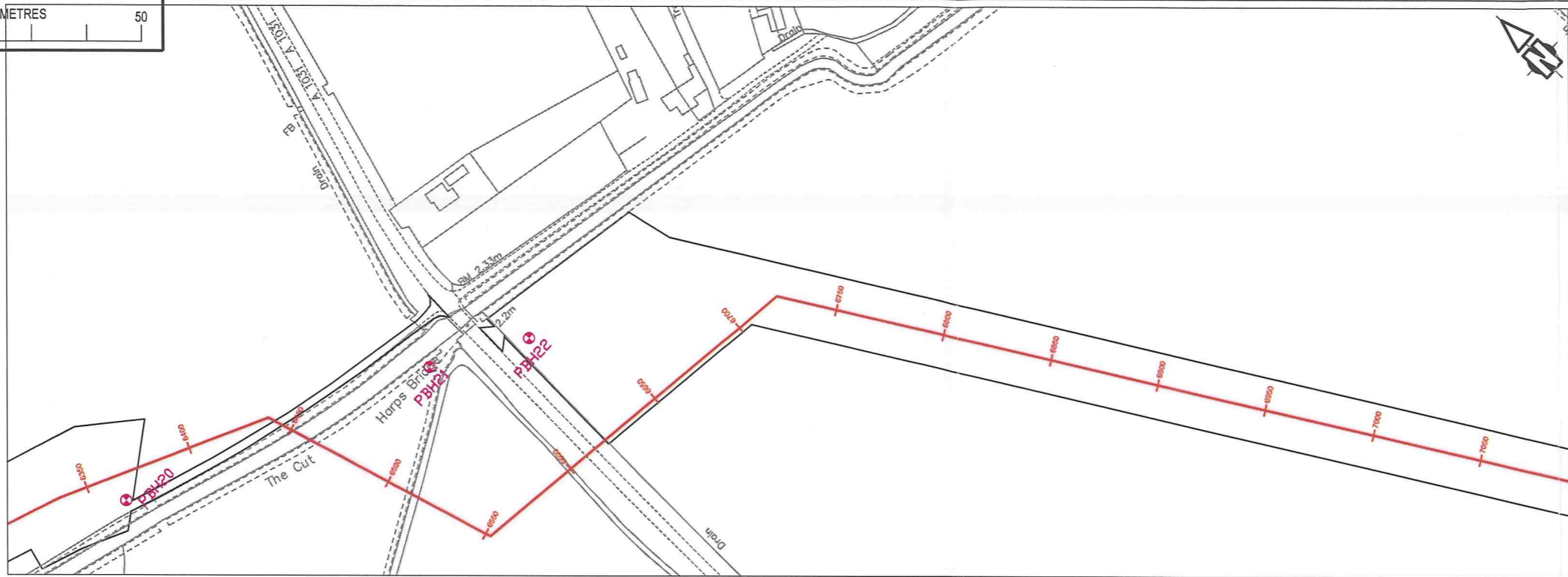
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SHOWN:	OFFICE:	DATE: 29.07.11	DATE: 29.07.11	DATE: 29.07.11	DATE: 29.07.11

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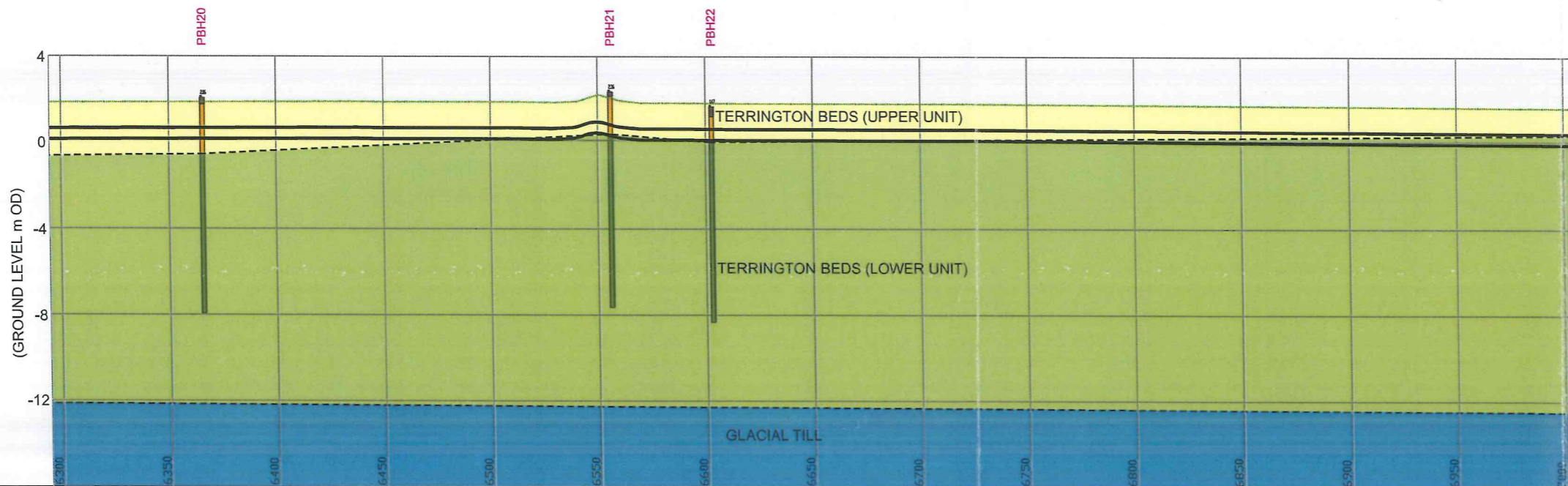
REV: /0

PROJECT NO: 5097367_GTG20093413

REV: /0



PLAN : SCALE 1:2500



EXISTING GROUND LEVEL (m OD)	CHAINAGE	INVERT LEVEL (m OD)
2.06	6365	
2.36	6555	
1.67	6602	

LONGSECTION ALONG A-A' : SCALE HORZ 1:2500 VERT 1:250

ATKINS

- Legend**
- Fill Material
 - Topsoil
 - Terrington Beds (Upper Unit)
 - Terrington Beds (Lower Unit)
 - Peat
 - Glacial Till
- Notes:**
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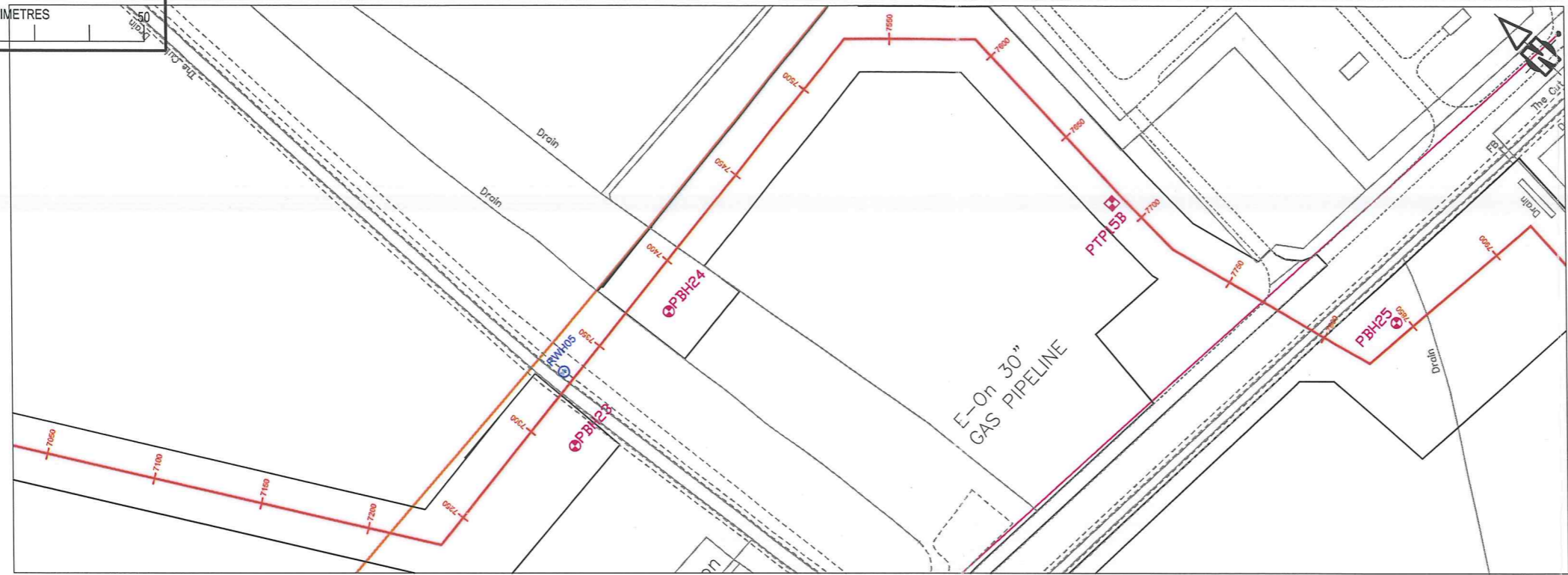
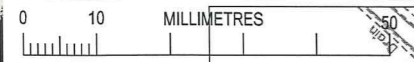
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 FIGURE 14 : PIPELINE ROUTE
 GEOLOGICAL LONG SECTION

SCALE:	ORIGINAL SIZE:	DESIGNED:	DRAWN:	CHECKED:	AUTHORISED:
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OFFICE:	DATE:	DATE:	DATE:	DATE:	DATE:
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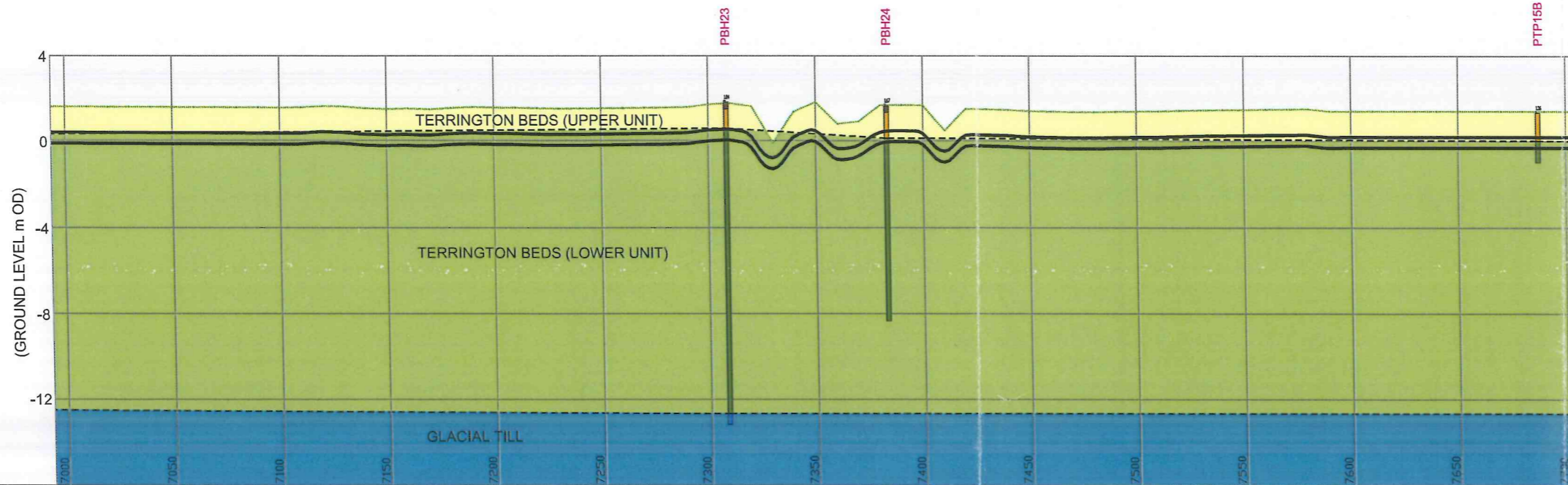
PROJECT NO: 5097367_GTG20093413
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REV: /0



PLAN : SCALE 1:2500



EXISTING GROUND LEVEL (m OD)		1.84	1.67	1.36
CHAINAGE		7307	7382	7686
INVERT LEVEL (m OD)				

LONGSECTION ALONG A-A' : SCALE HORZ 1:2500 VERT 1:250

ATKINS

- Legend**
- Fill Material
 - Topsoil
 - Terrington Beds (Upper Unit)
 - Terrington Beds (Lower Unit)
 - Peat
 - Glacial Till
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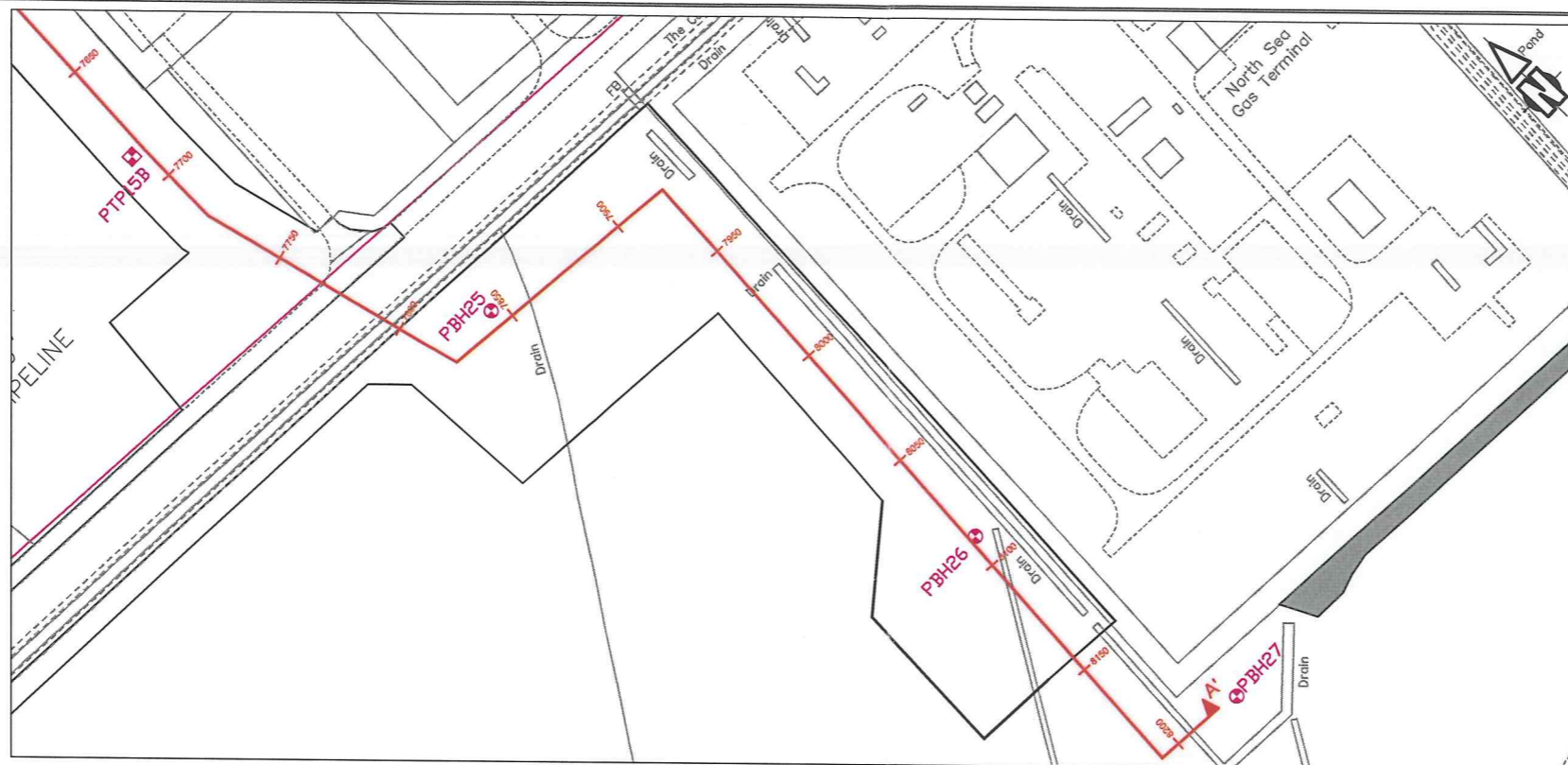
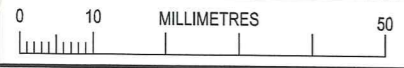
FIGURE 15 : PIPELINE ROUTE
 GEOLOGICAL LONG SECTION

SCALE:	ORIGINAL SIZE:	DESIGNED:	DRAWN:	CHECKED:	AUTHORISED:
SHOWN	A3	RS	DH	AD	JB
OFFICE:	DATE:	DATE:	DATE:	DATE:	DATE:
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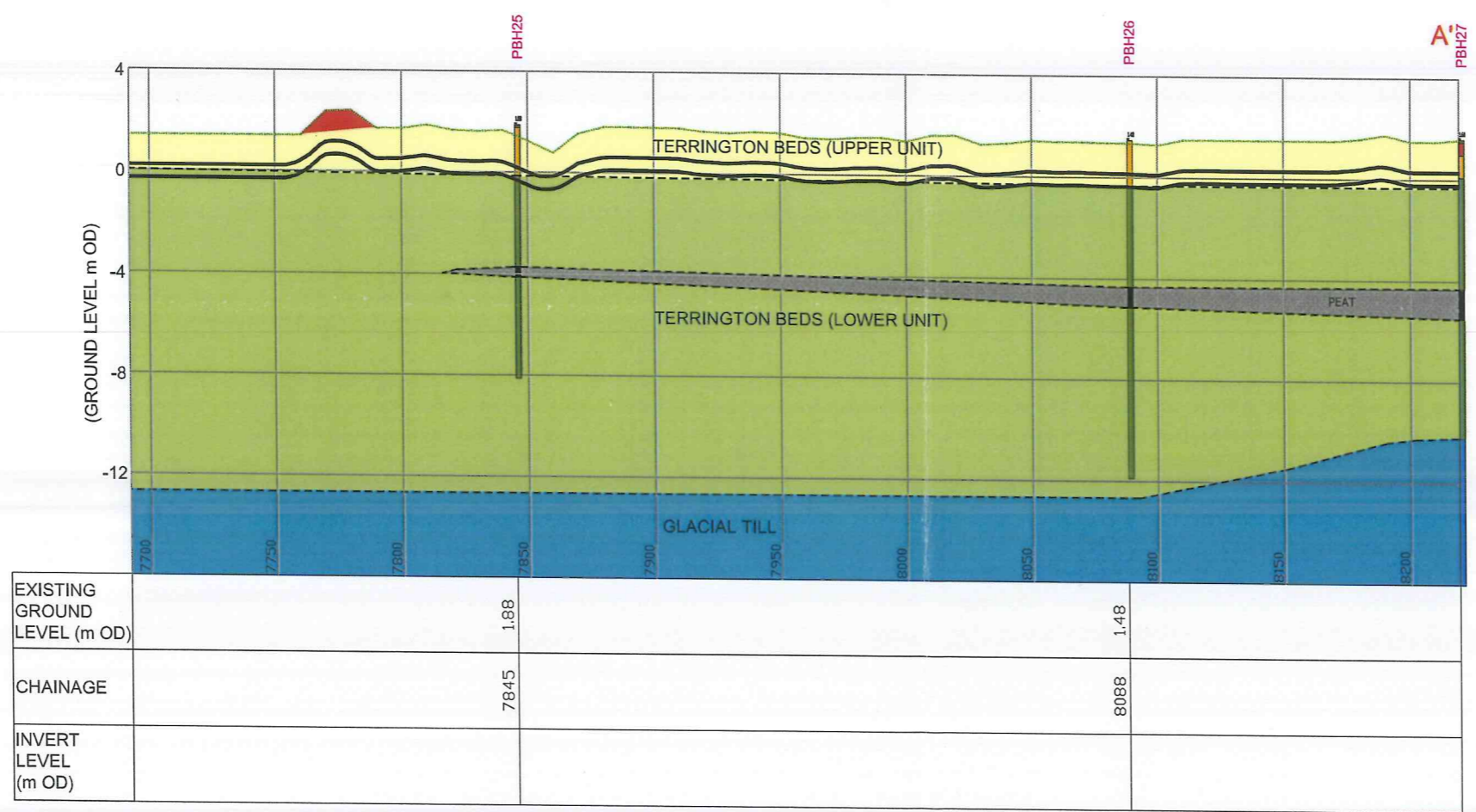
PROJECT NO: 5097367_GTG20093413

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PROJECT NO: 5097367_GTG20093413



PLAN : SCALE 1:2500



LONGSECTION ALONG A-A' : SCALE HORZ 1:2500 VERT 1:250

ATKINS

- Legend**
- Fill Material
 - Topsoil
 - Terrington Beds (Upper Unit)
 - Terrington Beds (Lower Unit)
 - Peat
 - Glacial Till
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TITLE:
 FIGURE 16 : PIPELINE ROUTE
 GEOLOGICAL LONG SECTION

SCALE:	ORIGINAL SIZE:	DESIGNED:	DRAWN:	CHECKED:	AUTHORISED:
SHOWN	A3	RS	DH	AD	JB
OFFICE:	DATE:	DATE:	DATE:	DATE:	DATE:
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PROJECT NO:	5097367_GTG20093413				REV:
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