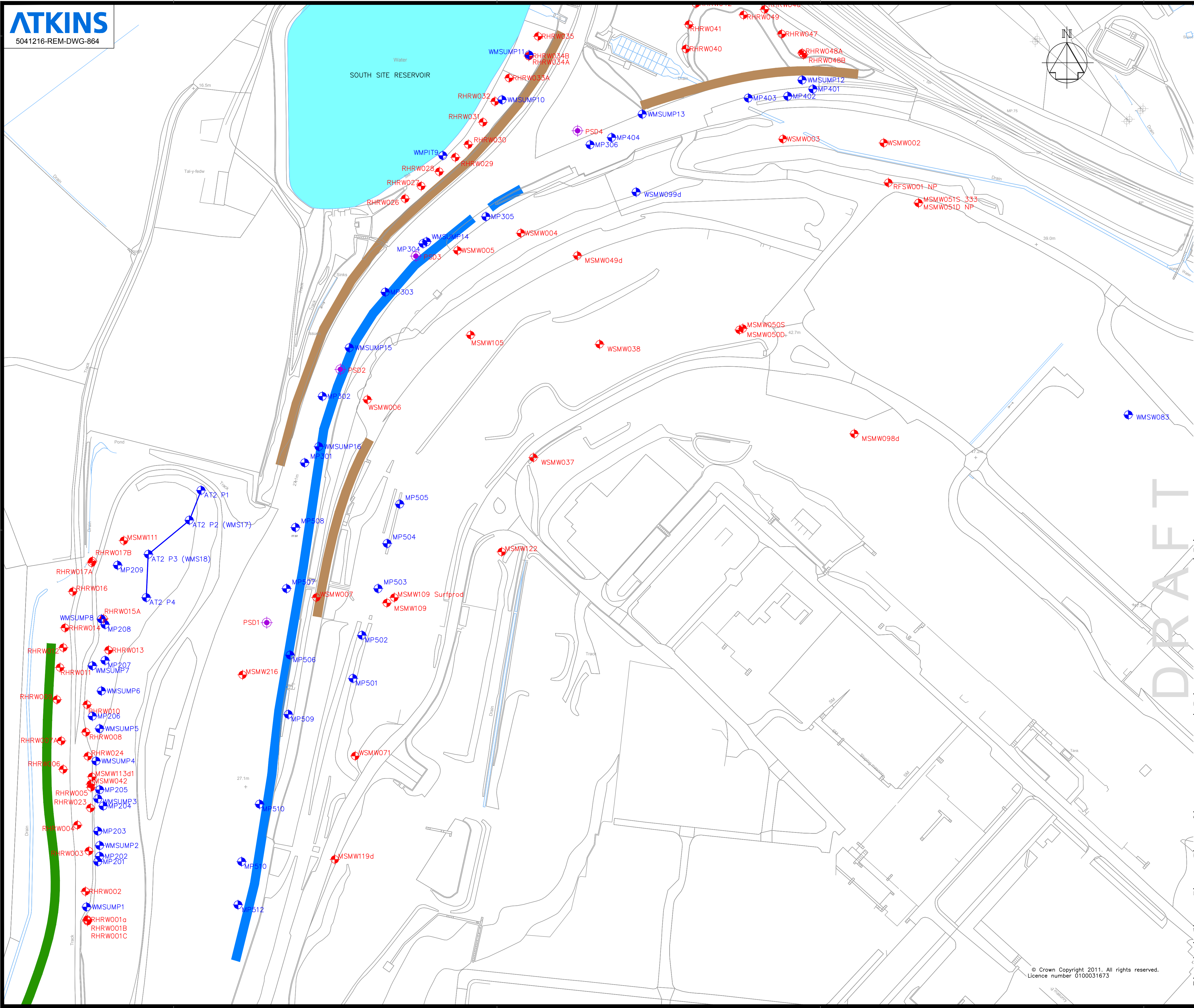




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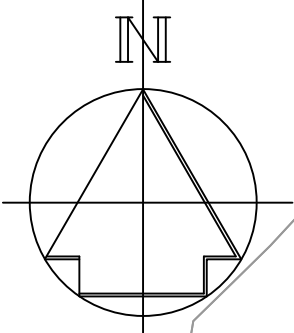
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- TRENCH
- AT2 TRIAL PIT LOG? AT2P1-4
- PSD SOIL SAMPLING FOR PSD TEST
- WMS MONITORING SUMP
- RHRW DRAW DOWN TESTS UNDERTAKEN AT EACH HISTORICAL BOREHOLE LOCATION
- FREE PRODUCT MONITORING/INTERCEPTION
- CONSTRUCTED WETLAND
- SURFACE WATER MONITORING TRENCH

NOTE

WMS17 INSTALLED AT AT2P2
WMS18 INSTALLED AT AT2P3

REVISIONS				Drawn By	Checked By	Date
PURPOSE OF ISSUE				Rev.	Authorised for issue	Date
Atkins Limited Telford Office Cornerstone House Stafford Park 13 Telford TF3 3AZ Tel 01952 201234 Fax 01952 200981				Birmingham Office The Axis, 10 Holliday Street Birmingham West Midlands B1 1TF Tel 0121 483 5000 Fax 0121 483 5252		
THIS DRAWING IS NOT TO BE SCALED						
CLIENT				ST.MODWEN		
PROJECT				COED DARCY URBAN VILLAGE		
DRAWING TITLE				COMPOSITE EXPLORATORY HOLE LOCATION PLAN		
Scale	1:1000	DRAWN	M.J.	CHECKED	T.A.	CO-ORD CHECK
DATE	27.01.11	DATE	27.01.11	DATE		
0				SHEET	A1	PLOT DATE
DRAWING NO				REV		
5041216-REM-DWG-864				-		

0 10 100
Millimetres



DO NOT SCALE

KEY:

- PHASE BOUNDARY
- SPECIAL PROCESS AREAS
- 1 BARRELING PLANT
- 2 SUBSTATION
- 3 BENZENE RAILHEAD
- 4 TPH
- AREA OF PROPOSED COMMERCIAL END USE
- AREA OF PROPOSED PUBLIC OPEN SPACE END USE
- RECENT GROUND INVESTIGATION
- FOLLOW-UP GROUND INVESTIGATION

P01	03/11/15	FIRST ISSUE FOR INFORMATION	HS	CS	BP
Rev.	Date	Description	By	Chk'd	App'd
Rev.	Date	Description	By	Chk'd	App'd

Drawing Status	FOR INFORMATION	Suitability	S2
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Project Title
COED DARCY

Drawing Title
MONITOR PHASE 68
ALL RECENT EXPLORATORY HOLES

Scale	Designed	Drawn	Checked	Authorised
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Original Size	Date	Date	Date	Date
A1	03/11/15	03/11/15	03/11/15	--/--/--

Drawing Number	Revision
5041216-ATK-DR-C-REM-002136	P 1

KEY

	MONITOR PHASE BOUNDARY
	TRIAL PIT
	EXCEEDANCE OF VISUAL / OLFACTORY CRITERIA
	PIPE LOCATION
	RBSL EXCEEDANCES

[illegible]

P01	03/11/15	FIRST ISSUE	MJ	CS	MP
Rev.	Date	Description	By	Chk'd	App'd

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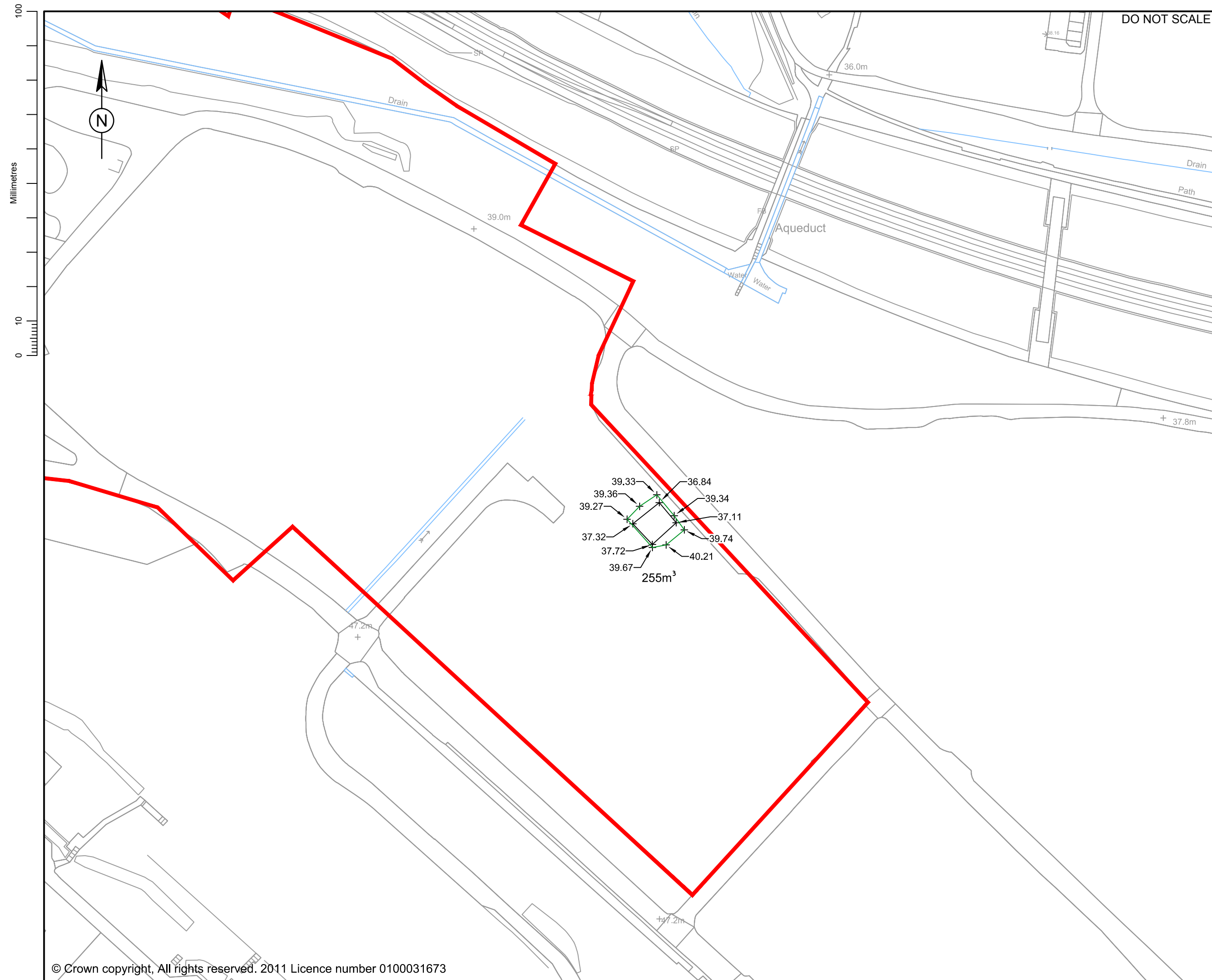
COED DARCY

Drawing Title

MONITOR PHASE 68 EXCEEDANCES

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Original Site A1	Date 03/11/15	Date 03/11/15	Date 03/11/15	Date 03/11/15

Drawing Number	Revision
5041216-REM-DWG-002135	P 1



LOCATION PLAN
SCALE 1:25,000

KEY:

PHASE 68 BOUNDARY

[illegible]

P1	03/11/15	FIRST ISSUE	MJ	CS	MP
Rev.	Date	Description	By	Chk'd	App'd

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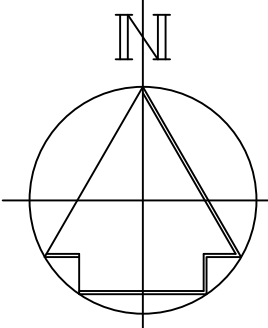
Drawing Title

MONITOR PHASE 68
BASE OF EXCAVATION SURVEY
IP4177

Scale 1:1000	Designed CS	Drawn MJ	Checked CS	Authorised MP
Original Size A3	Date 03/11/15	Date 03/11/15	Date 03/11/15	Date 03/11/15

Drawing Number	Revision
5041216-ATK-DR-C-REM-2134	P 1

100
Millimetres
0 10



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CONSTRUCTION

MAINTENANCE/CLEANING

DECOMMISSIONING/DEMOLITION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

KEY:

- PHASE 68 BOUNDARY
- MAJOR CONTOURS
- MINOR CONTOURS

Rev.	Date	Description	By	Chk'd	App'd
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Drawing Status	FOR INFORMATION	Suitability	S2
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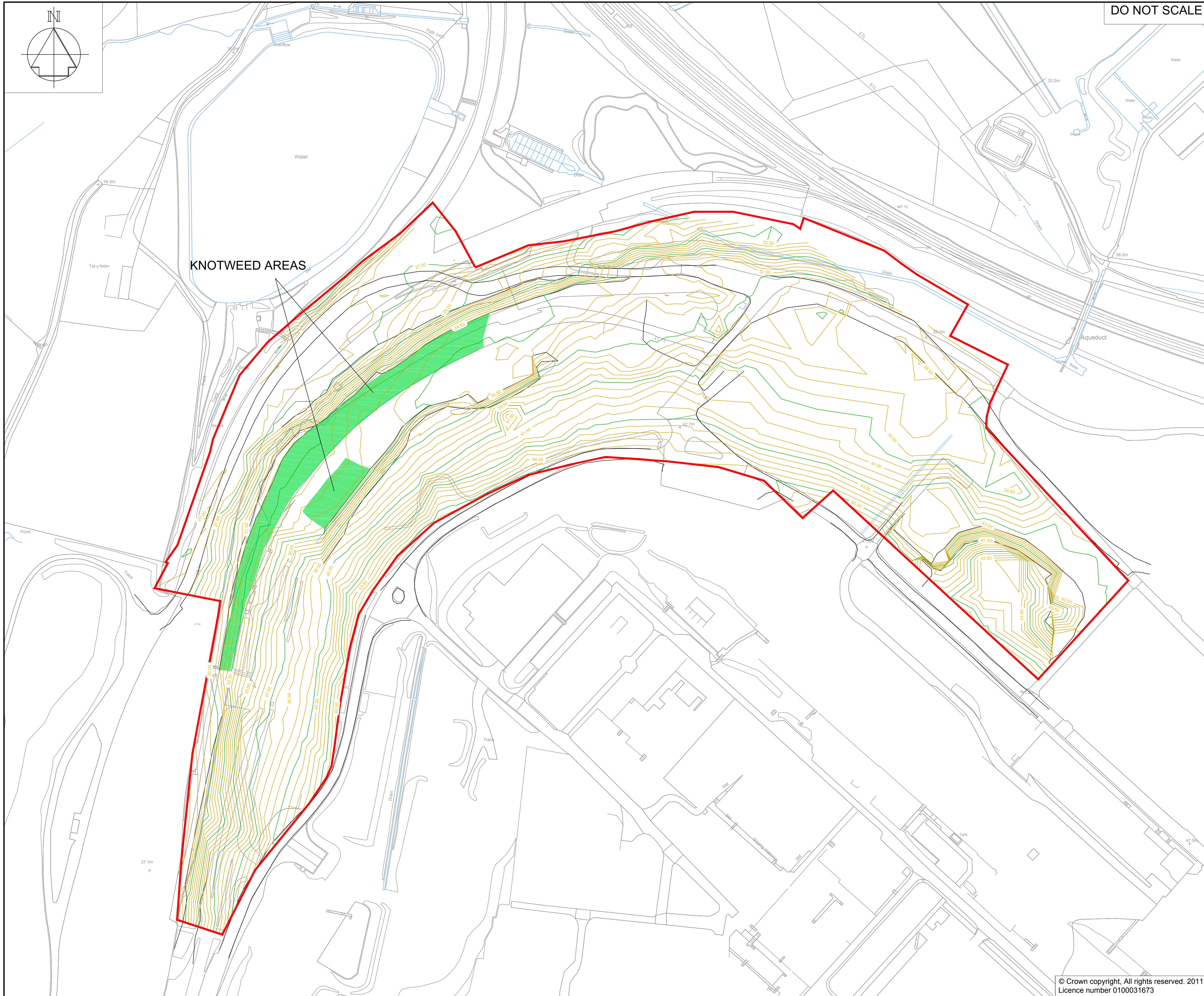
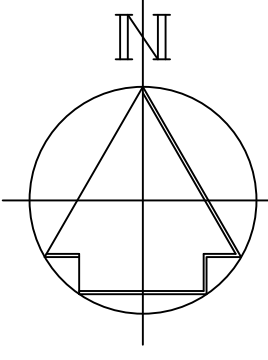
Drawing Title

MONITOR PHASE 68
POST-WORKS TOPO SURVEY

Scale	Designed	Drawn	Checked	Authorised
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Original Size	Date	Date	Date	Date
A1	03/11/15	03/11/15	03/11/15	--/--/--

Drawing Number	Revision
5041216-ATK-DR-C-REM-002133	P 1

100
Millimetres
0 10



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KEY:

- PHASE 68 BOUNDARY
- MAJOR CONTOURS
- MINOR CONTOURS

Rev.	Date	Description	By	Chk'd	App'd
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Drawing Status	FOR INFORMATION	Suitability	S2
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Project Title

COED DARCY

Drawing Title

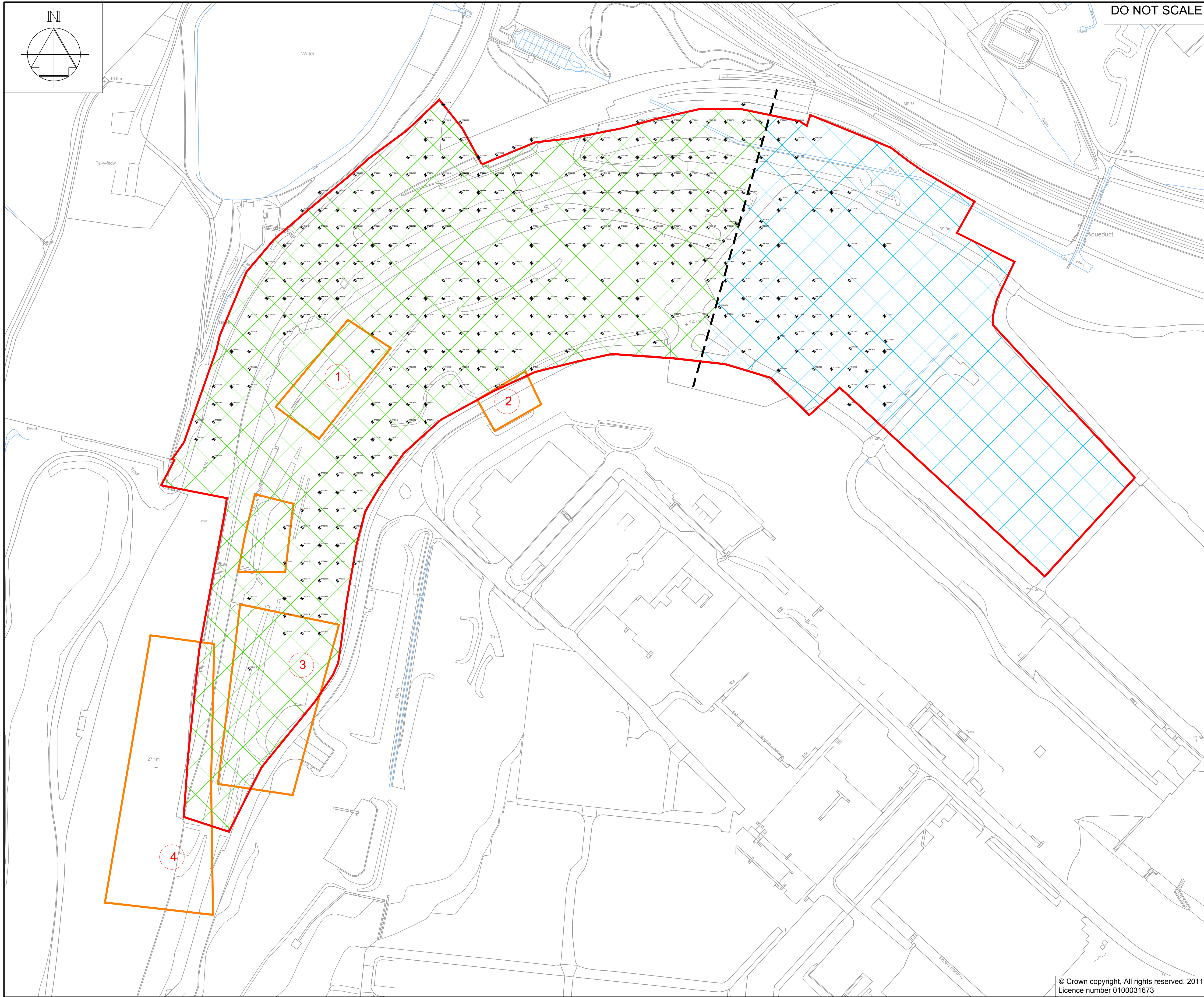
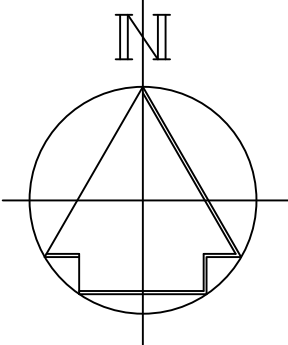
MONITOR PHASE 68
PRE-WORKS TOPO SURVEY

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Original Size	Date	Date	Date	Date
A1	03/11/15	03/11/15	03/11/15	--/--/--

Drawing Number	Revision
5041216-ATK-DR-C-REM-002132	P 1

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Millimetres
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INFORMATION

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DECOMMISSIONING/DEMOLITION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

KEY:

- PHASE BOUNDARY
- SPECIAL PROCESS AREAS
- 1 BARRELING PLANT
- 2 SUBSTATION
- 3 BENZENE RAILHEAD
- 4 TPH
- AREA OF PROPOSED COMMERCIAL END USE
- AREA OF PROPOSED PUBLIC OPEN SPACE END USE

P01	03/11/15	FIRST ISSUE FOR INFORMATION	HS	CS	BP
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Project Title

COED DARCY

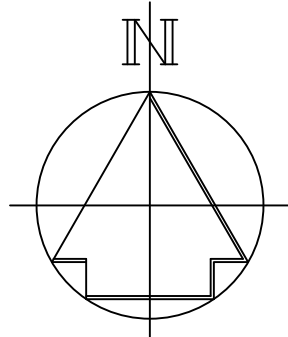
Drawing Title

PHASE 68 RECENT EXPLORATORY HOLE
LOCATION PLAN

Scale	Designed	Drawn	Checked	Authorised
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Original Size	Date	Date	Date	Date
A1	22/05/15	22/05/15	22/05/15	--/--/--

Drawing Number	Revision
5041216-REM-DWG-0001970	P 1

100
0 10
Millimetres



RESERVOIR

OIL SEPARATORS

PUMP HOUSE

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In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

MAINTENANCE/CLEANING

DECOMMISSIONING/DEMOLITION

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

KEY:

- PHASE BOUNDARY
- SPECIAL PROCESS AREAS

- 1 BARRELLING PLANT
- 2 SUBSTATION
- 3 BENZENE RAILHEAD
- 4 TPH

- AREA OF PROPOSED COMMERCIAL END USE
- AREA OF PROPOSED PUBLIC OPEN SPACE END USE

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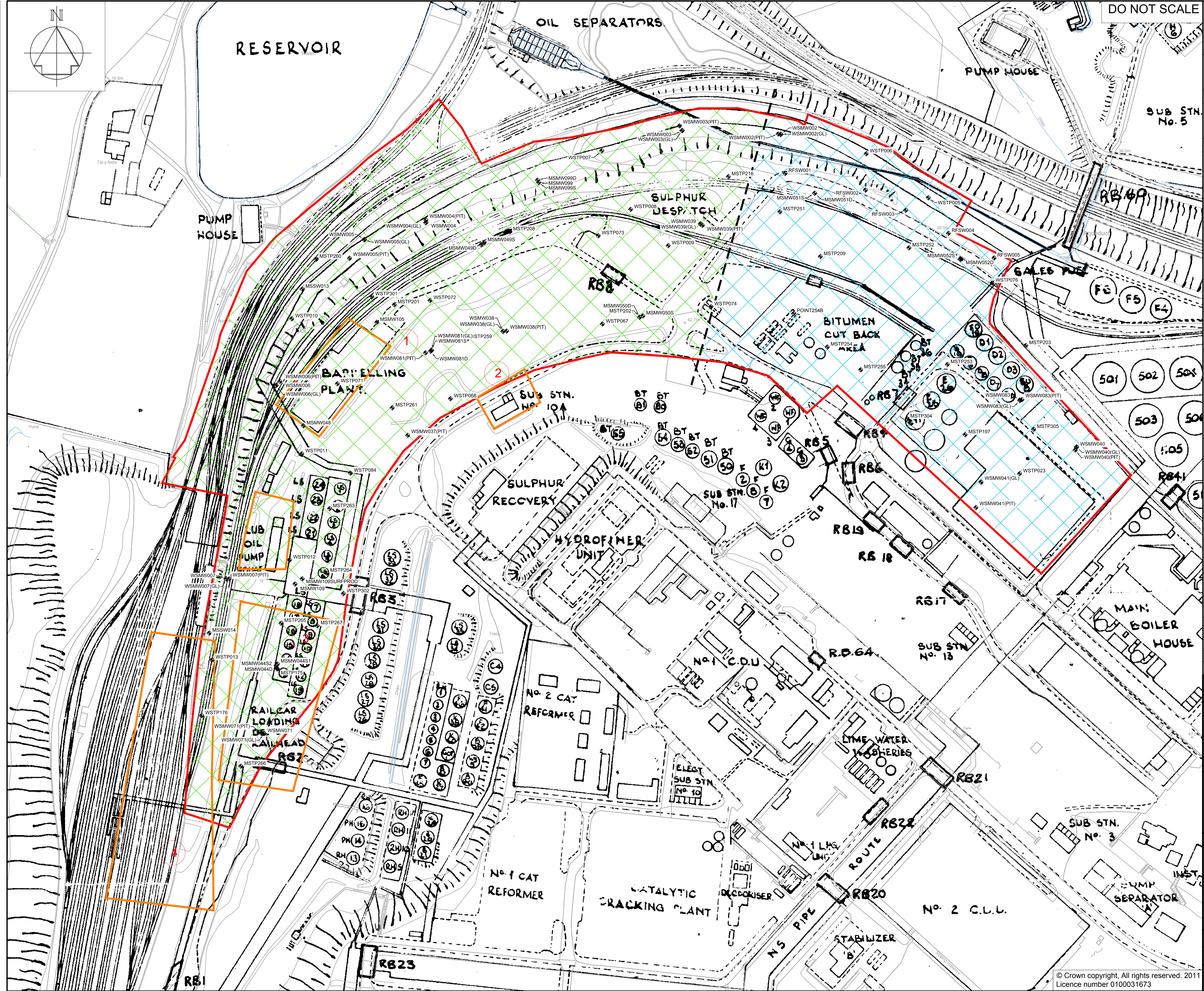
COED DARCY

PHASE 68 HISTORIC EXPLORATORY
HOLE LOCATION PLAN

Scale	Designed	Drawn	Checked	Authorised
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Original Size	Date	Date	Date	Date
A1	22/05/15	22/05/15	22/05/15	--/--/--

Drawing Number 5041216-REM-DWG-0001969 P 1

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Appendices

Appendix A. Summary of Adopted Thresholds

Lowest of the Remedial Target Criterion/Risk Based Screening Level for Commercial land use, Deep Soil (>1m)

Contaminant	Minimum RBSL/ RTC 1% (mg/kg)	Minimum of RBSL/ RTC 3% (mg/kg)
Benzo(a)pyrene	>sat	>sat
Benzene	5	5
Toluene	389	389
Ethylbenzene	>sat	>sat
Xylene	>sat	>sat
TPH aromatic C7-C8	617	617
TPH aromatic C8-C10	547	547
TPH aromatic C10-C12	>sat	>sat
TPH aromatic C12-C16	>sat	>sat
TPH aliphatic C6-C8	>sat	>sat
TPH aliphatic C8-C10	>sat	>sat
TPH aliphatic C10-C12	>sat	>sat
TPH aliphatic C12-C16	>sat	>sat
TPH aliphatic C16-C21	None	None
TPH aliphatic C21-C35	None	None
TPH aromatic C16-C21	None	None
TPH aromatic C21-C35	None	None
Total TPH (Phase 1)	81956	81956
Total TPH (Process Area)	35014	35014
Total TPH (North Tank Farm)	13974	13974
Total TPH (South Tank Farm)	34797	34797
1,2-Dichloroethane	0.65	0.65
1,1,1-Trichloroethane	3250	3250
Tetrachloroethene	368	368
Trichloroethene	28	28
Vinyl chloride	0.154	0.214
Dichloromethane	665	665
Cis-1,2-Dichloroethene	35.1	67
Trans-1,2 Dichloroethene	53.4	91
Acenaphthene	>sat	>sat
Anthracene	>sat	>sat
Benzo(a)anthracene	>sat	>sat
Benzo(b)fluoranthene	>sat	>sat
Benzo(g,h,i)perylene	>sat	>sat
Benzo(k)fluoranthene	>sat	>sat
Chrysene	>sat	>sat
Dibenz(a,h)anthracene	>sat	>sat
Fluoranthene	>sat	>sat
Fluorene	>sat	>sat
Indeno(1,2,3-cd)pyrene	>sat	>sat
Pyrene	>sat	>sat
Phenol	>sat	>sat
Mercury, methyl	>sat	>sat
Mercury, elemental	>sat	>sat
Naphthalene	>sat	>sat
1,1,1,2-Tetrachloroethane	278	768
1,1,2,2-Tetrachloroethane	718	1720
Carbon tetrachloride	7.34	19
Chlorobenzene (mono)	>sat	>sat
TPH aliphatic C5-C6	>sat	>sat
TPH aromatic C5-C7	71	152

Notes

- Where the lower of the vapour or aqueous saturation limits have been exceeded by the RTC calculated, the hazard quotient is considered to be less than 1 and as such >sat has been presented
- Xylene - the lowest RTC of the three isomers has been presented. Users must consider total exposure from all xylene isomers and not consider them in isolation
- TPH >C16 are not considered to be volatile according to TPHCWG. Consequently the inhalation of vapour pathways have not been considered and therefore no RTC value has been presented here
- "None" indicates theoretical RBSL greater than solubility limit
- In the S106 only one value was presented for 1,2-dichloroethene of 91 mg/kg
- 'Total' TPH RBSL derived for an area of development, based on individual RBSL and available mass fraction TPH data in soil at time of derivation, using the inverse weighted average approach
- Benzo(a)pyrene RBSL to be compared against sum of 16 US EPA Priority List PAHs using Toxicity Equivalence approach
- TPH aromatic C7-C8 is considered to comprise toluene only by Atkins
- No RTC was produced for total TPH as this will be considered further at validation stage
- Asbestos has not been considered here as it is being considered in a separate report
- Additivity for TPHs and PAHs to be undertaken in line with guidance in Atkins report 5041216-REM-RPT-000476
- The potential presence of free product should be assessed in accordance with information in the S106
- TPH aromatic C5-C7 is considered to comprise benzene only by Atkins
- Values for phenol are calculated to be protective of dermal effects in line with the approach used by the Environment Agency to derive the commercial phenol SGV

Lowest of the Remedial Target Criterion/Risk Based Screening Level for Parks land use, Deep Soil (>1m)

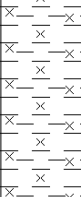
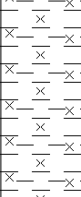
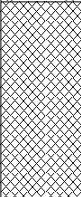
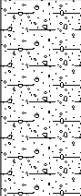
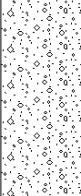
Contaminant	Minimum of RTC (1%) / RBSL mg/kg	Minimum of RTC (3%) / RBSL mg/kg
Benzo(a)pyrene	>sat	>sat
Benzene	48	48
Toluene	>sat	>sat
Ethylbenzene	>sat	>sat
Xylene	478	1330
TPH aromatic C7-C8	>sat	>sat
TPH aromatic C8-C10	>sat	>sat
TPH aromatic C10-C12	>sat	>sat
TPH aromatic C12-C16	>sat	>sat
TPH aliphatic C6-C8	>sat	>sat
TPH aliphatic C8-C10	>sat	>sat
TPH aliphatic C10-C12	>sat	>sat
TPH aliphatic C12-C16	>sat	>sat
TPH aromatic C16-C21	>sat	>sat
TPH aromatic C21-C35	>sat	>sat
TPH aliphatic C16-C21	>sat	>sat
TPH aliphatic C21-C35	>sat	>sat
Total TPH (Phase 1)	>sat	>sat
Total TPH (Process Area)	>sat	>sat
Total TPH (North Tank Farm)	>sat	>sat
Total TPH (South Tank Farm)	>sat	>sat
1,2-Dichloroethane	6	6
1,1,1-Trichloroethane	>sat	>sat
Tetrachloroethene	1780	1780
Trichloroethene	269	269
Vinyl chloride	8.21	11.4
Dichloromethane	6220	6220
Cis-1,2-Dichloroethene	881	881
Trans-1,2 Dichloroethene	881	881
Acenaphthene	>sat	>sat
Anthracene	>sat	>sat
Benzo(a)anthracene	>sat	>sat
Benzo(b)fluoranthene	>sat	>sat
Benzo(g,h,i)perylene	>sat	>sat
Benzo(k)fluoranthene	>sat	>sat
Chrysene	>sat	>sat
Dibenz(ah)anthracene	>sat	>sat
Fluoranthene	>sat	>sat
Fluorene	>sat	>sat
Indeno(1,2,3-cd)pyrene	>sat	>sat
Pyrene	>sat	>sat
Phenol	>sat	>sat
Mercury (methyl)	>sat	>sat
Mercury (elemental)	>sat	>sat
Naphthalene	>sat	>sat
TPH aromatic C5-C7	432	928
TPH aliphatic C5-C6	>sat	>sat
1,1,1,2-Tetrachloroethane	>sat	>sat
1,1,2,2-Tetrachloroethane	>sat	>sat
Carbon tetrachloride	301	778
Chlorobenzene	>sat	>sat

Notes

- Where the lower of the vapour or aqueous saturation limits has been exceeded by the RTC calculated, the hazard quotient is considered to be less than 1 and as such >sat has been presented
- Xylene - Users must consider total exposure from all xylene isomers and not consider them in isolation. It should be noted that the value presented is the lowest of the aqueous or vapour saturation limits. The lowest saturation limit of the three isomers has been presented.
- TPH aromatic C7-C8 is considered to comprise toluene only by Atkins
- TPH >C16 are not considered to be volatile according to TPHCWG. Consequently the inhalation of vapour pathways have not been considered and therefore no value has been presented here
- 'Total' TPH RBSL derived for an area of development, based on individual RBSL and available mass fraction TPH data in soil at time of derivation, using the inverse weighted average approach.
- Benzo(a)pyrene RBSL to be compared against sum of 16 US EPA Priority List PAHs using Toxicity Equivalence approach
- Asbestos has not been considered here as it is being considered in a separate report
- Additivity for TPHs and PAHs to be undertaken in line with guidance in Atkins report 5041216-REM-RPT-00216
- TPH aromatic C5-C7 is considered to comprise benzene only

Appendix B. Exploratory Hole Logs

				Trial Pit Log				Trialpit No TPE2339	
Project Name: Coed Darcy Site Wide Sign Off				Project No. 5122307_SWP_Rev2		Co-ords: 270830.01 - 195935.45 Level: mAOS		Date 04/08/2015	
Location: Coed Darcy				Dimensions (m):		Scale 1:25		Logged	
Client: St Modwen				Depth 4.70					

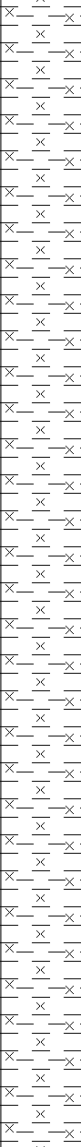
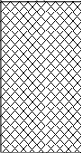
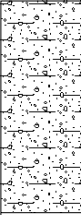
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES					Soft brownish red slightly silty CLAY with occasional fine subrounded sandstone gravel. (Red Marl clay import)	0	0	1
	1.50	ES								2
	2.50	ES		2.20			Grey clayey gravelly SAND with wood and brick.	2	1	
				2.90			Pale brown clayey gravelly cobbly SAND with occasional pockets of orangish brown clay.			3
	3.50	ES		3.90			Grey gravelly cobbly SAND. Cobbles are subround to round sandstone. Gravel is fine to coarse subround to subangular sandstone.			4
				4.70			Apparent SANDSTONE bedrock. End of pit at 4.70 m			5

Remarks: Terminated on apparent SANDSTONE bedrock.

Stability:
 GroundWater
 Remarks:



				Trial Pit Log				Trialpit No TPE2340	
Project Name: Coed Darcy Site Wide Sign Off				Project No. 5122307_SWP_Rev2		Co-ords: 270830.03 - 195955.45 Level: mAOS		Date 04/08/2015	
Location: Coed Darcy				Dimensions (m):		Scale 1:25		Logged	
Client: St Modwen				Depth 6.00					

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
							Soft brownish red slightly silty CLAY with occasional fine subround sandstone gravel.			1
							Black silty gravelly cobbly SAND with occasional clay pockets, brick, plastic and roots.	0	0	2
							Grey slightly clayey gravelly cobbly SAND. Cobbles are round to subround sandstone. Gravel is fine to coarse subround to subangular sandstone.			3
	4.50	ES		3.80						
				4.30				2	1	4
										5

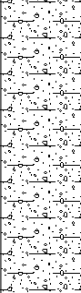
Continued on next sheet

Remarks: Terminated on apparent sandstone bedrock.

Stability:
 GroundWater
 Remarks:



				Trial Pit Log				Trialpit No TPE2340	
Project Name: Coed Darcy Site Wide Sign Off				Project No. 5122307_SWP_Rev2		Co-ords: 270830.03 - 195955.45 Level: mAOS		Date 04/08/2015	
Location: Coed Darcy				Dimensions (m):		Scale 1:25		Logged	
Client: St Modwen				Depth 6.00					

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	5.50	ES						3	4	
				6.00 6.00			Apparent SANDSTONE bedrock. End of pit at 6.00 m			6
										7
										8
										9
										10

Remarks: Terminated on apparent sandstone bedrock.

Stability:
 GroundWater
 Remarks:



Trial Pit Log

Trialpit No
TPE2348
Sheet 1 of 1

Project Name: Coed Darcy Site Wide Sign Off

Project No. 5122307_SWP_Rev2

Co-ords: 270840.00 - 195955.45

Date 04/08/2015

Location: Coed Darcy

Dimensions (m):

Depth 4.70

Scale 1:25

Logged

Client: St Modwen

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50			0.90		incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key Strata 1 (North pit): Brownish red slightly silty CLAY with rare subround sandstone gravel. (Red Mark clay import) Strata 2 (South pit): Pale brown clayey silty SAND. With occasional fine to medium subangular sandstone gravel.	0	0		
	1.50					incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key Brown silty SAND with brick rubble.	1	0	1	
	2.50					incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key incorrect incorrect incorrect key key key Bluish grey gravelly cobbly fine to medium SAND. Cobbles are round to subround sandstone. Gravel is fine to medium subround sandstone.			2	
	3.50			4.70				4	4	3
	4.50			4.70			Apparent SANDSTONE bedrock. End of pit at 4.70 m			4
										5

Remarks: Terminated on apparent sandstone bedrock.

Stability:

GroundWater

Remarks:

Trial Pit Log

Trialpit No
TPE2375

Sheet 1 of 2

Project Name: Coed Darcy Site Wide Sign Off

Project No. 5122307_SWP_Rev2

Co-ords: 270850.00 - 195955.45

Level: mAOS

Date
04/08/2015

Location: Coed Darcy

Client: St Modwen

Dimensions (m):

Depth 5.30

m

Scale
1:25

Logged

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES		0.40			Soft to firm brownish red slightly silty CLAY with occasional fine subround sandstone gravel. (Red Marl clay import)	0	0	1
							Brown cobbly gravelly SAND with thin discontinuous layers of black medium ash and brick fragments.	2	1	
	1.50	ES		1.10			Greyish brown slightly clayey silty gravelly SAND. Gravel is fine to coarse subround to subangular sandstone.			2
	2.50	ES								3
	3.50	ES								4
	4.50	ES								5
Continued on next sheet										

Remarks: Terminated on apparent sandstone bedrock.

Stability:

GroundWater

Remarks:

ATKINS				Trial Pit Log				Trialpit No TPE2375 Sheet 2 of 2		
Project Name: Coed Darcy Site Wide Sign Off				Project No. 5122307_SWP_Rev2		Co-ords: 270850.00 - 195955.45 Level: mAOS		Date 04/08/2015		
Location: Coed Darcy				Dimensions (m): Depth 5.30		m 		Scale 1:25		
Client: St Modwen								Logged		
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
				5.30 5.30			Apparent SANDSTONE bedrock. End of pit at 5.30 m			
										6
										7
										8
										9
										10
Remarks: Terminated on apparent sandstone bedrock.										AGS
Stability:										
GroundWater										
Remarks:										

Project Name: Monitor Phase Sign Off

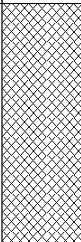
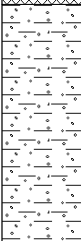
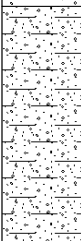
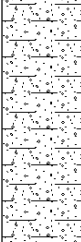
Project No.
5122307.MPCo-ords: -
Level:Date
22/07/2015

Location: Llandarcy

Dimensions
(m):Scale
1:25

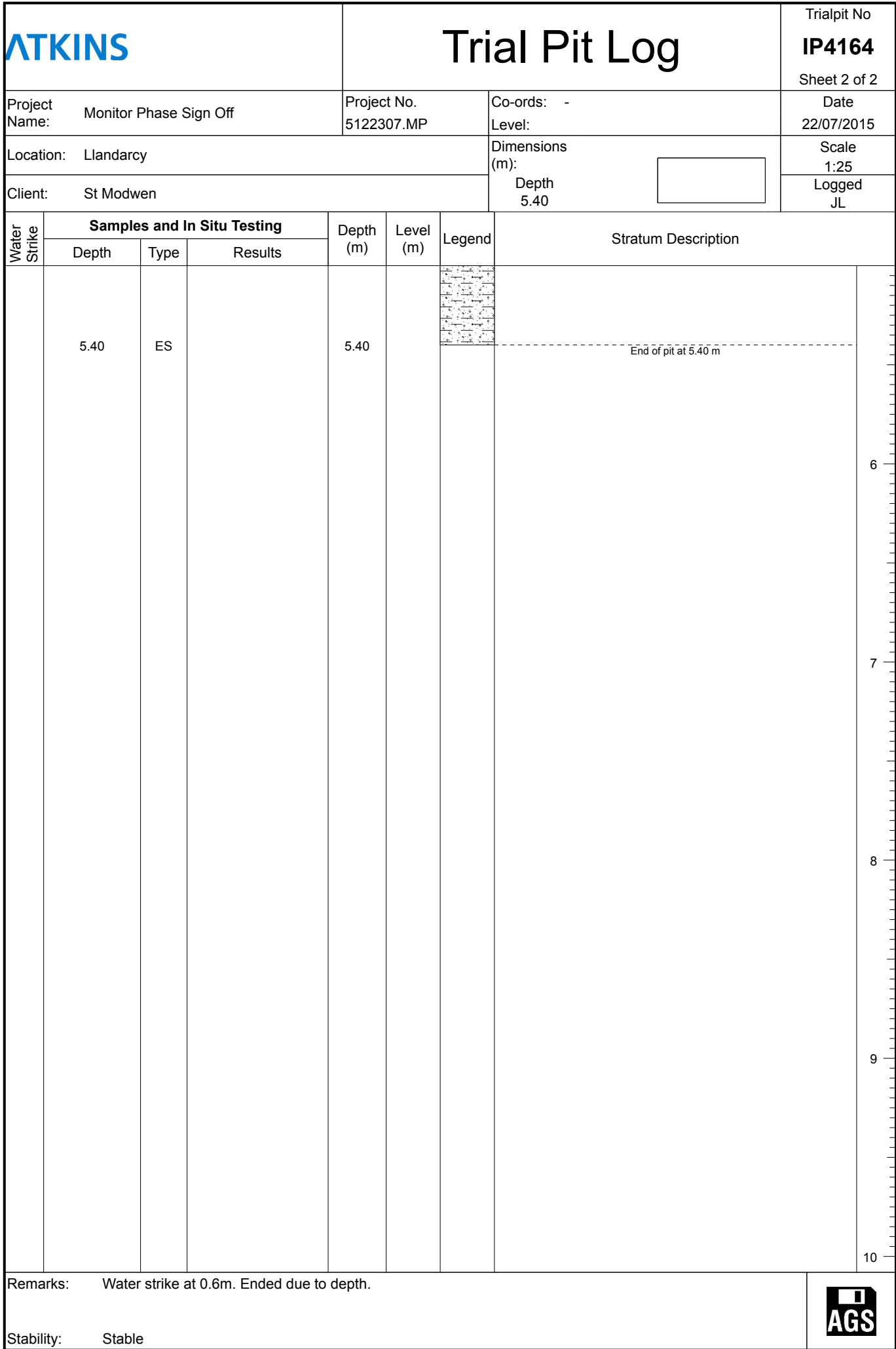
Client: St Modwen

Depth
5.40Logged
JL

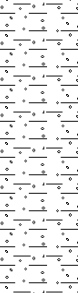
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼	0.40	ES					MADE GROUND. Brown sandy fine to coarse angular to subangular GRAVEL of sandstone and concrete with rare concrete blocks and metal cables.	
				0.80			Brownish blue slightly gravelly CLAY. Gravel is medium to fine subangular sandstone.	1
	1.50	ES		1.60			Brown slightly clayey gravelly medium SAND. Gravel is fine to coarse subangular to subrounded sandstone.	2
	2.80	ES						3
	3.70	ES		4.20			Greyish blue slightly sandy gravelly CLAY. Gravel is fine to coarse subrounded to rounded sandstone. Sand is fine to coarse,	4
							Continued on next sheet	5

Remarks: Water strike at 0.6m. Ended due to depth.

Stability: Stable

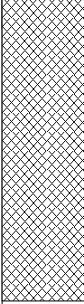


				Trial Pit Log			Trialpit No IP4166 Sheet 1 of 1		
Project Name: Monitor Phase Sign Off				Project No. 5122307.MP		Co-ords: - Level:		Date 23/06/2015	
Location: Llandarcy				Dimensions (m):				Scale 1:25	
Client: St Modwen				Depth 4.00				Logged WS	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼	0.50	ES		0.90			Dark brown-orange light grey slightly clayey gravelly fine to coarse SAND with cobbles of angular to sub-rounded fine to coarse sandstone and quartz	1
	1.10	ES					Dark grey clayey gravelly fine to coarse SAND with boulders and cobbles of angular to sub-rounded sandstone. Gravel of angular to sub-rounded fine to coarse sandstone. Petroleum bitumen staining on on south-side of pit	
	2.40	ES		2.30			Firm dark brown mottled dark grey slightly sandy gravelly CLAY with cobbles of angular to sub-rounded fine to coarse sandstone. Gravel of angular to sub-rounded fine to coarse sandstone	3
	3.40	ES					3.30	
			4.00			----- End of pit at 4.00 m -----		5

Remarks: Pit terminated at 4.00m within weathered bedrock		
Stability:		

				Trial Pit Log			Trialpit No IP4190 Sheet 1 of 1		
Project Name: Monitor Phase Sign Off				Project No. 5122307.MP		Co-ords: - Level:		Date 25/06/2015	
Location: Llandarcy						Dimensions (m):		Scale 1:25	
Client: St Modwen						Depth 1.00		Logged KS	

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	
	Depth	Type	Results					
▼				0.10			Concrete/brick with metal pipe, running W-E orientation, black oily material in pipe gushed out. Concrete/brick with metal pipe, running W-E orientation, black oily material in pipe gushed out. Dark grey, slightly clayey, gravelly, SAND with rounded to sub-angular cobbles of sandstone. Fragments of metal, brick and concrete.	
	0.50	ES						
				1.00			End of pit at 1.00 m	1
								2
								3
								4
								5

Remarks: pit stopped due to pipe filled with black water		
Stability:		

Project Name: Monitor Phase Sign Off

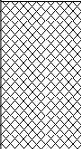
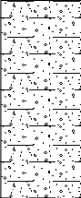
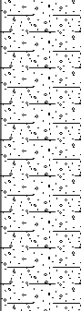
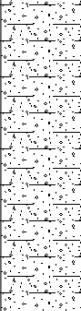
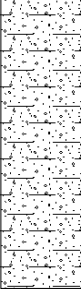
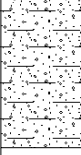
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Level: mAOSDate
23/06/2015

Location: Llandarcy

Dimensions (m): mScale
1:25

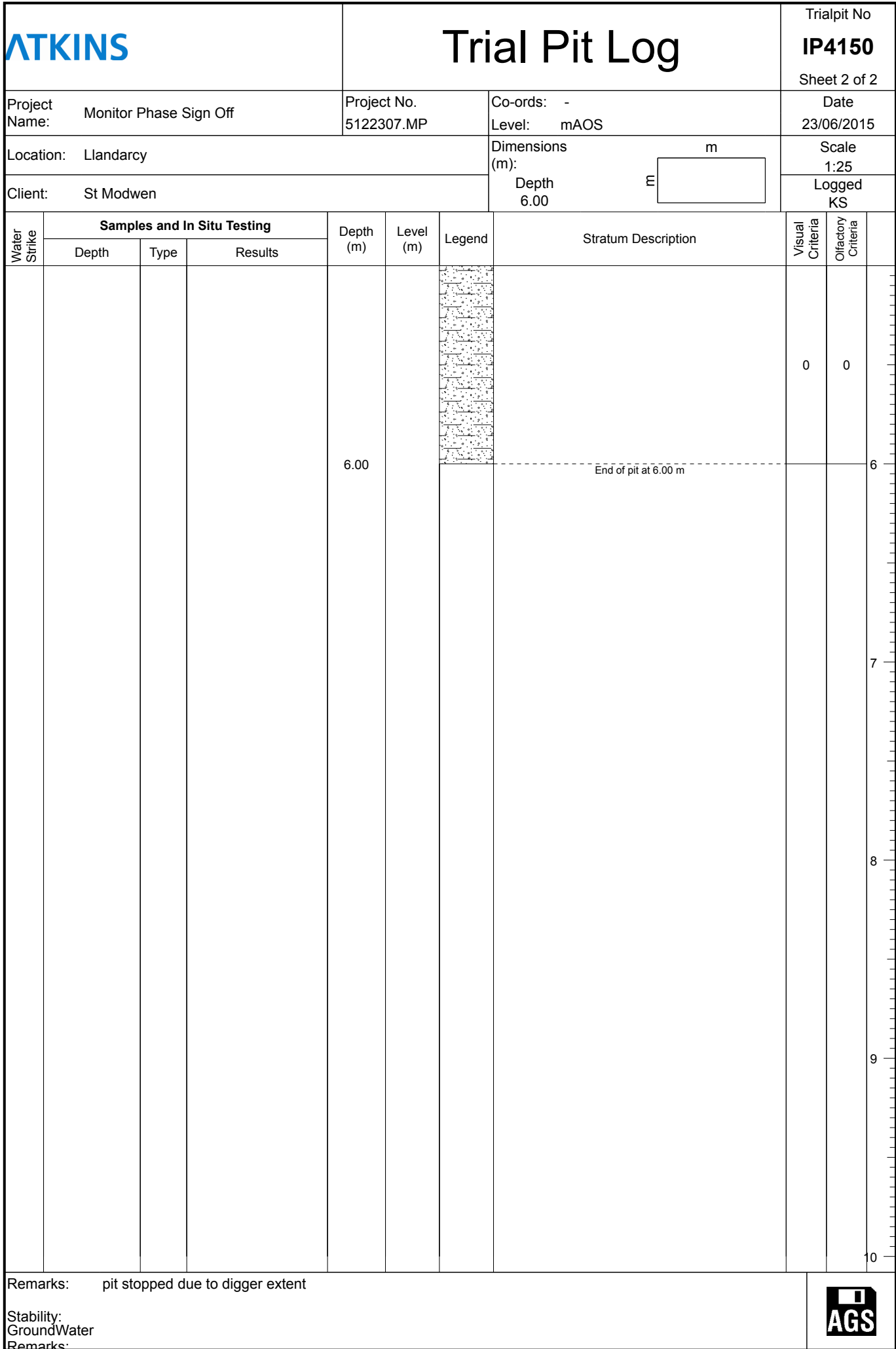
Client: St Modwen

Depth
6.00Logged
KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.40	ES		0.50			MG: drk brn, sl clay, gr, SAND with s-a/s-r SST cobbles. Gr=s-a/s-r. Sa=F-C.	0	1	
	0.60	ES		0.80			Bitumen Layer: black, sticky solid material.	5	1	
	1.50	ES					NG: drk br-orange, clay, SAND. Sa=F-M. Becomes gravellier @ 2.5 m. Cobbles s-r of SST.			1
	2.50	ES								2
	3.50	ES						0	1	3
	4.50	ES		4.50						4
							NG: drk grey, sl clay, gr, SAND. Gr=F-M s-a/s-r. Sa=F-M.			5
Continued on next sheet										

Remarks: pit stopped due to digger extent

Stability:
GroundWater
Remarks:



Project Name: Monitor Phase Sign Off

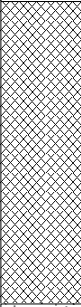
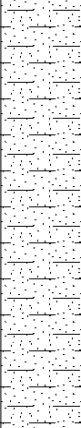
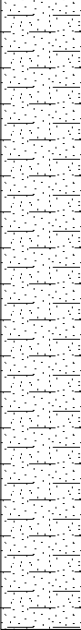
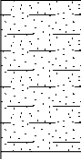
Project No.
5122307.MPCo-ords: -
Level: mAOSDate
24/06/2015

Location: Llandarcy

Dimensions (m): mScale
1:25

Client: St Modwen

Depth
5.50Logged
KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES		1.00			MG: drk brn, sl gr, sa, CLAY. Gr=s-a/s-r, F-C. Sa=F-M. Some frags of tarlike bitumen. Becomes sandier near bottom of layer.	1	0	
	1.50	ES					NG: orange-drk brn, sly clay, SAND. Sa=F-M. Some drk grey clay layers in it.			1
	2.50	ES								2
	3.50	ES		4.50			NG: light grey-orange, clay, SAND. Sa=F-C. Lots of rounded cobbles of SST present.			3
	5.00	ES					Continued on next sheet			4
										5

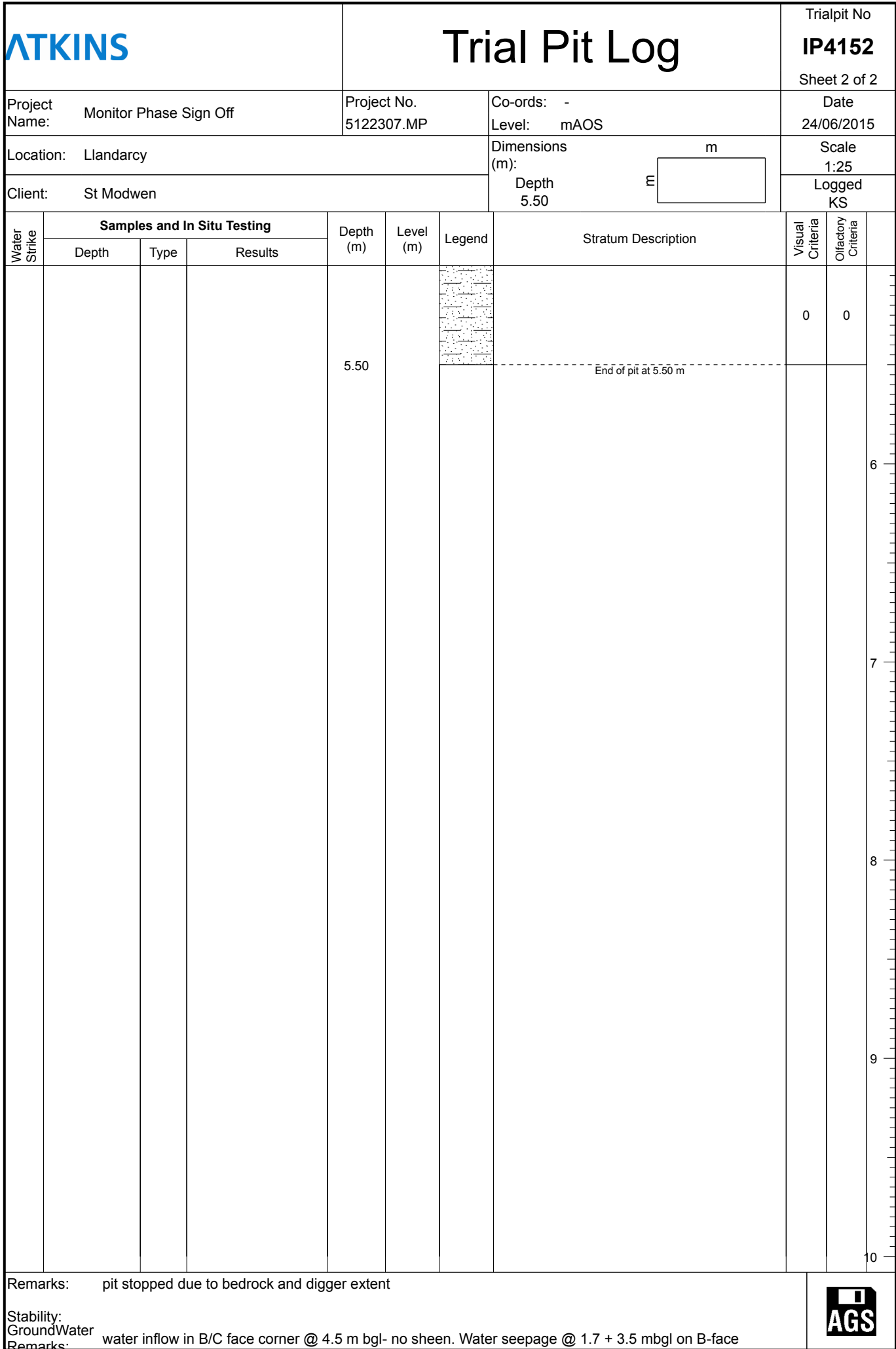
Remarks: pit stopped due to bedrock and digger extent

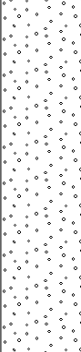
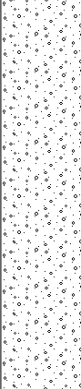
Stability:

GroundWater

Remarks:

water inflow in B/C face corner @ 4.5 m bgl- no sheen. Water seepage @ 1.7 + 3.5 mbgl on B-face



				Trial Pit Log				Trialpit No IP4162 Sheet 1 of 1		
Project Name: Monitor Phase Sign Off				Project No. 5122307.MP		Co-ords: - Level: mAOS		Date 24/06/2015		
Location: Llandarcy				Dimensions (m):		m		Scale 1:25		
Client: St Modwen				Depth 2.50				Logged KS		
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES		1.20			NG: light gry-brn, GRAVEL. Gr= F-M, s-a.	0	0	1
	1.50	ES					NG: light grey, sl sa, GRAVEL. Gr=M-C s-a/ s-r. Sa=F-C.	0	0	2
					2.50		End of pit at 2.50 m			
										4
										5
Remarks: pit stopped due to hole collapse and water inflow										
Stability: GroundWater water inflow in gravel layer between 1.2-2.5 m bgl, brown foam on surface of water Remarks:										



Project Name: Monitor Phase Sign Off

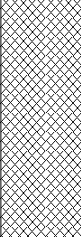
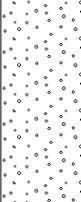
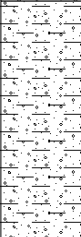
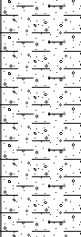
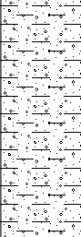
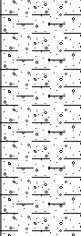
Project No.
5122307.MPCo-ords: -
Level: mAOSDate
23/06/2015

Location: Llandarcy

Dimensions (m): mScale
1:25

Client: St Modwen

Depth
5.00Logged
KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
▼	0.50	ES					Concrete on half of Trial Pit. Other half is MG: drk brn, sl gr, sl clay, SAND. Gr=F-M s-r/s-a. Sa=F-C. Frags of concrete. Acetone smell.	1	2	
				0.80			NG: Black-drk grey, GRAVEL. Gr=F-C, s-a/s-r.	3	3	1
	1.20	ES					NG: drk grey-orange/drk brn, sl gr, sa, CLAY. Gr=F-M, s-a/r. Sa=F. Rounded cobbles of SST present. Becoming a clay, SAND @ 3mbgl.			2
	2.50	ES								3
	3.50	ES						1	1	4
	4.50	ES								5
				5.00			End of pit at 5.00 m			

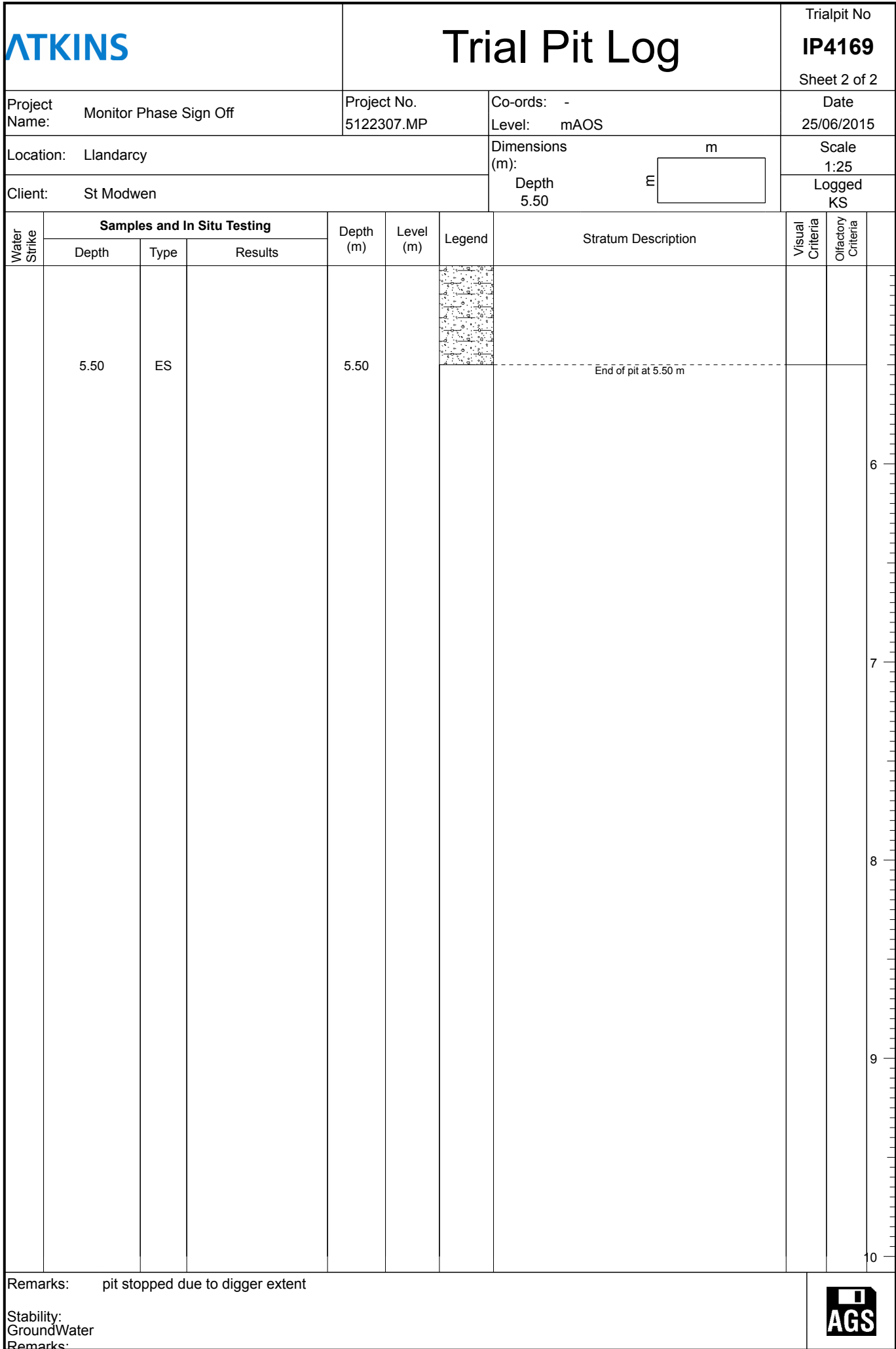
Remarks: pit stopped due to digger extent and hole collapse

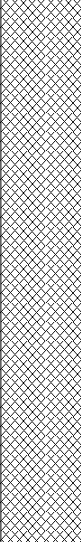
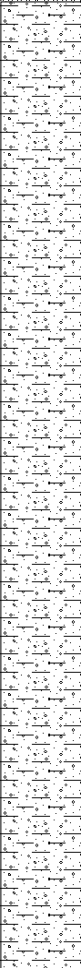
Stability:

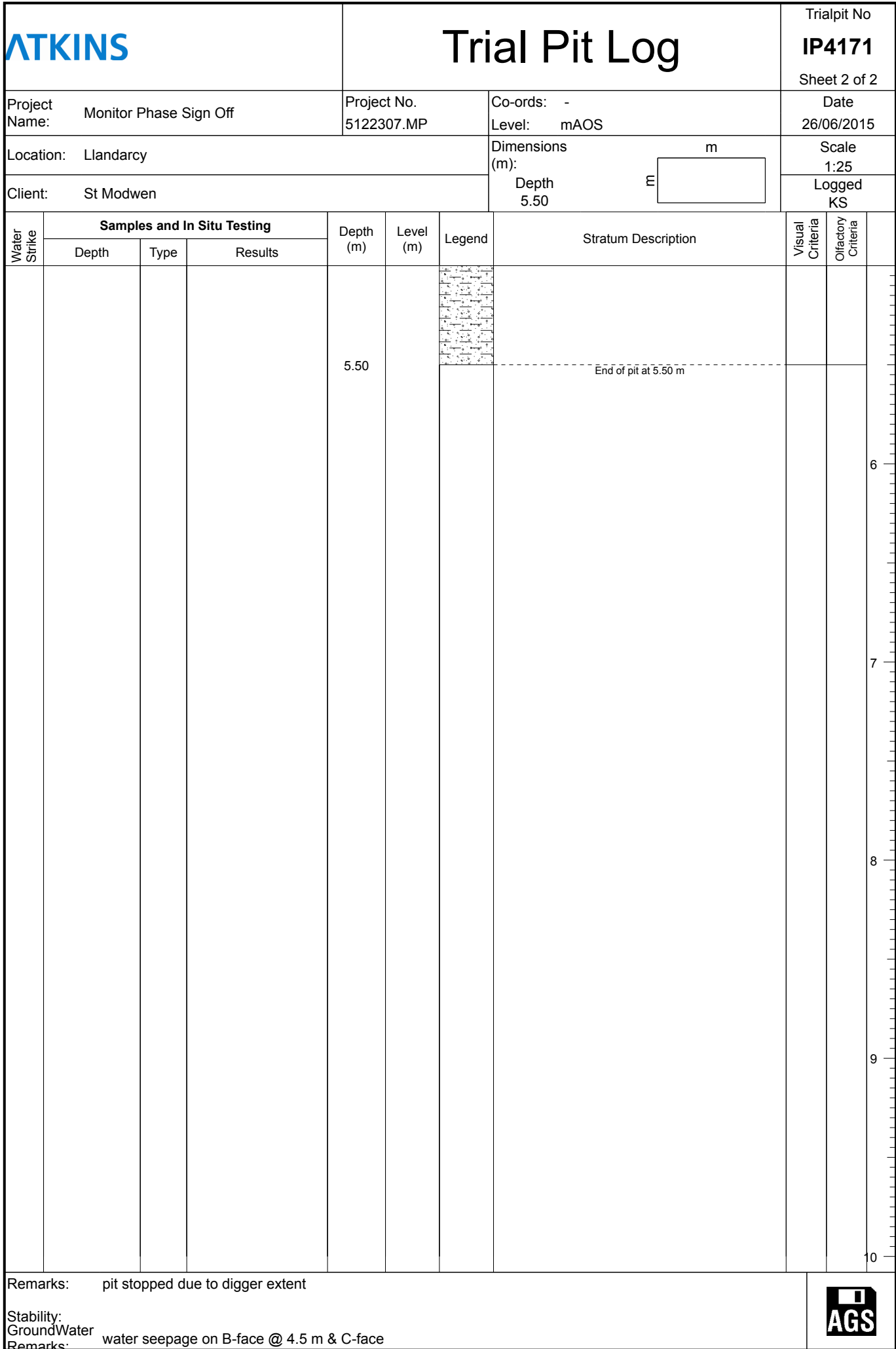
GroundWater

Remarks:

water inflow in black gravel layer between 0.8-1.5 mbgl sheen on water



				Trial Pit Log				Trialpit No IP4171 Sheet 1 of 2	
Project Name: Monitor Phase Sign Off				Project No. 5122307.MP		Co-ords: - Level: mAOS		Date 26/06/2015	
Location: Llandarcy						Dimensions (m): m		Scale 1:25	
Client: St Modwen						Depth 5.50		Logged KS	
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria
	Depth	Type	Results						
	0.50	ES		1.80			MG: dr grey-red sl gr, clay, SAND. Gr= F-M, rounded to sub-rounded. Sa=F-M. Large rounded SST cobbles. Some black staining.	2	1
	1.50	ES							
	2.50	ES				NG: drk grey, sl sa, gr, CLAY. Gr=ang-rounded. Large rounded SST cobbles. Acetone smell.			
	3.50	ES							
	4.50	ES							
Continued on next sheet									
Remarks: pit stopped due to digger extent									
Stability: GroundWater water seepage on B-face @ 4.5 m & C-face Remarks:									
									



Project Name: Monitor Phase Sign Off

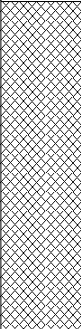
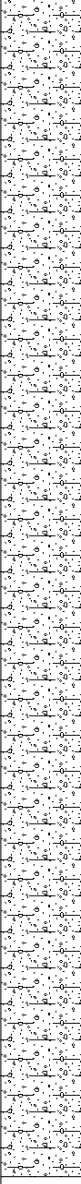
Project No.
5122307.MPCo-ords: -
Level: mAOSDate
26/06/2015

Location: Llandarcy

Dimensions (m): mScale
1:25

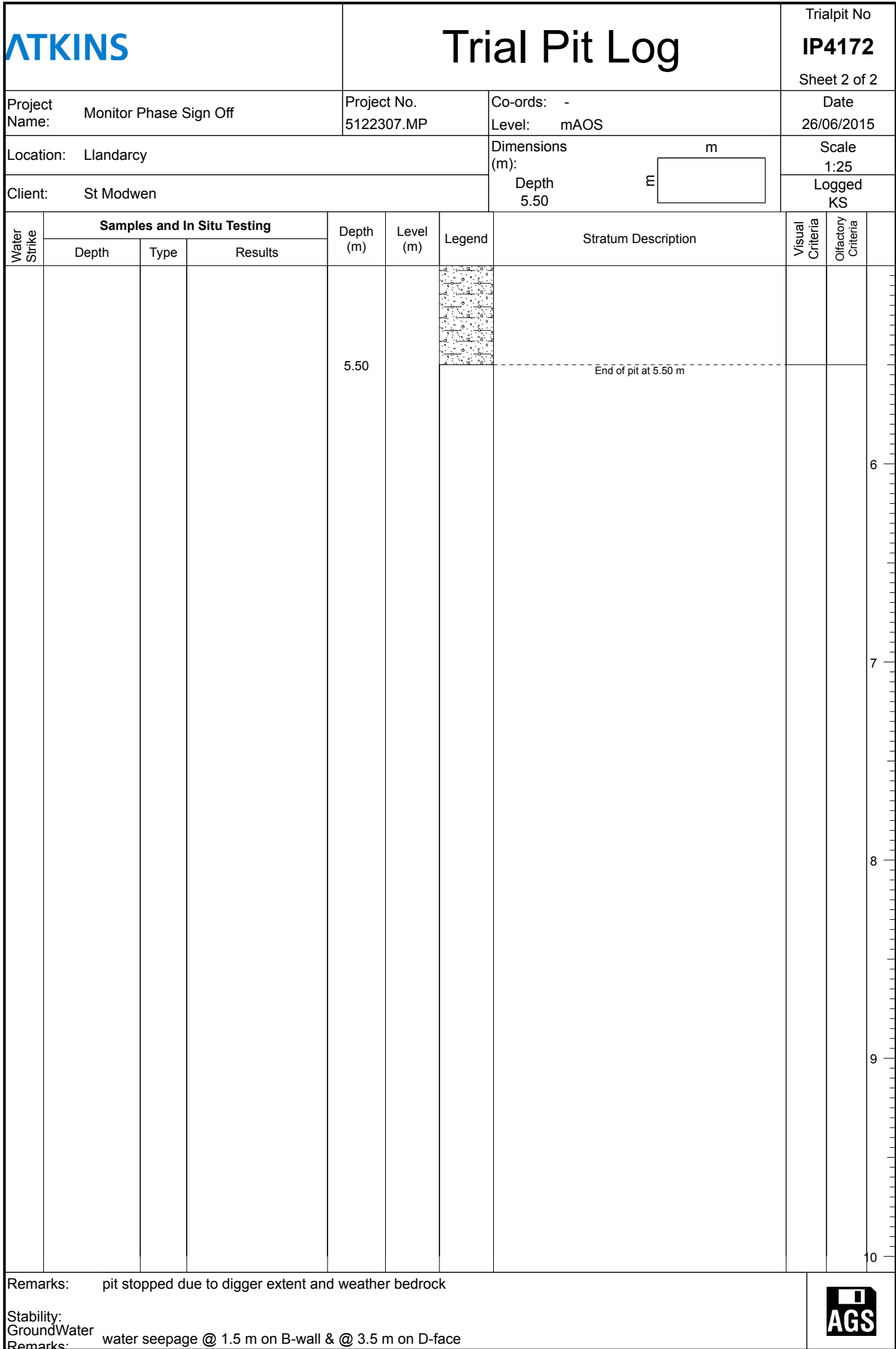
Client: St Modwen

Depth
5.50Logged
KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
▼	0.50	ES		1.10			MG: black, sa, GRAVEL. Gr=F-C rounded to sub-rounded. Sa=C. Ashy, rounded SST cobbles.	3	0	1
▼	1.50	ES					NG: grey-brown, sl gr, clay, SAND. Rounded to sub-rounded SST cobbles present. Slight sheen on some gravel, black staining @ 3.5 m onwards, weathered bedrock fragments.			2
▼	2.50	ES								3
▼	3.50	ES						1	2	4
	4.50	ES								5
Continued on next sheet										

Remarks: pit stopped due to digger extent and weather bedrock

Stability:
GroundWater
Remarks: water seepage @ 1.5 m on B-wall & @ 3.5 m on D-face



Project Name: Monitor Phase Sign Off

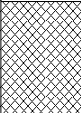
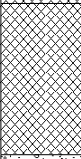
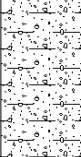
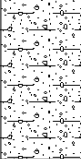
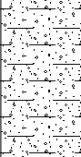
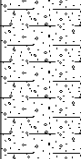
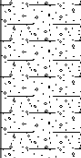
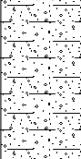
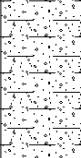
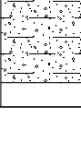
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Level: mAOSDate
25/06/2015

Location: Llandarcy

Dimensions (m): mScale
1:25

Client: St Modwen

Depth
5.50Logged
KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.30	ES		0.40			MG: drk brn-orange, sl clay, gr, SAND. Gr=s-r/s-r, F_C. Sa=F-C. Frags of brick, concrete, re-bar & metal pipe.	1	1	
							Concrete in half of pit.			
				0.90			NG: drk grey, sl cly,gr, SAND. Gr=M-C, r-s/a. Sa=F-M. Sheen on gravel. Large rounded cobbles. Black staining.			1
▼	1.50	ES						2	2	
▼				2.00						2
	2.50	ES								3
	3.50	ES						1	1	
	4.50	ES								4
										5
										

Continued on next sheet

Remarks: pit stopped due to digger extent and hole unstable

Stability:
GroundWater
Remarks: water seepage @ 1.5 m bgl on C-face and 2 m bgl on C-face

Project Name: Monitor Phase Sign Off

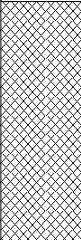
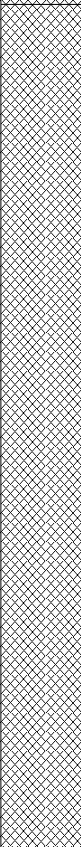
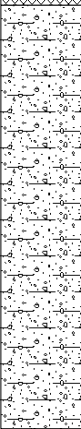
Project No.
5122307.MPCo-ords: -
Level: mAOSDate
25/06/2015

Location: Llandarcy

Dimensions (m): mScale
1:25

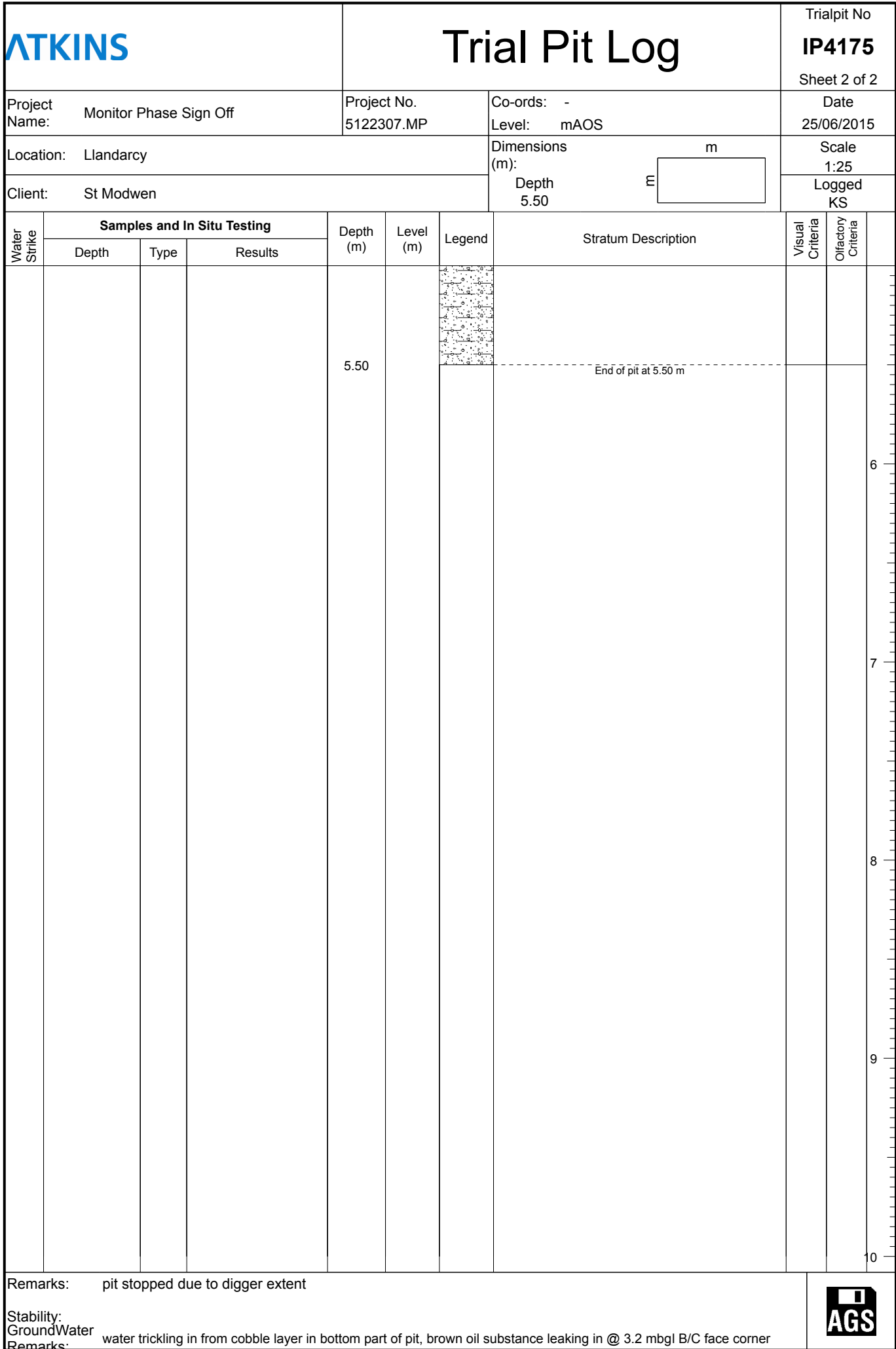
Client: St Modwen

Depth
5.50Logged
KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
▼				0.80			MG: drk brn-black, sl gr, clay, SAND.	1	1	
							MG: drk brn-drk grey, sl clay, sl gr, SAND. Gr= sub-ang to sub-rounded. @ 3m sheen on gravel with large round cobbles with V/O=1/3.			1
				3.60			NG: drk gr-drk brn, sl clay, SAND matrix in cobbles. Cobbles= rounded to sub-rounded, 2-20cm. Very wet layer-slight sheen to water on cobbles.	1	2	4
							Continued on next sheet			5

Remarks: pit stopped due to digger extent

 Stability:
 GroundWater
 Remarks: water trickling in from cobble layer in bottom part of pit, brown oil substance leaking in @ 3.2 mbgl B/C face corner



Project Name: Monitor Phase Sign Off

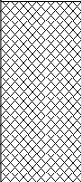
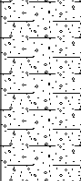
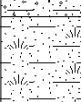
Project No.
5122307.MPCo-ords: -
Level: mAOSDate
24/06/2015

Location: Llandarcy

Dimensions (m): mScale
1:25

Client: St Modwen

Depth
2.80Logged
KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
▼	0.40	ES		0.60			MG: drk grey-black, sa, GRAVEL. Sa=M-C. Gr=F-M, s-r/r. Some rounded/s-r cobbles present.	1	0	
	1.00	ES		1.30			NG: orange-brn, sl clay, sl gr, SAND. Gr=F-M, s-r/s-a. Sa=F-C. Plant roots and fibres.	0	0	1
	1.50	ES		1.60			NG: black, sl gr, clay, SAND. Gr=F-M, s-r. Sa=F-M. lack plant, org rich pockets of fibres/roots.	2	3	
	2.00	ES					NG: drk gry-brn, clay, SAND. Sa=F-M. Become browner @ 2m. Some black staining.	1	2	2
	2.50	ES		2.80						
							End of pit at 2.80 m			3
										4
										5

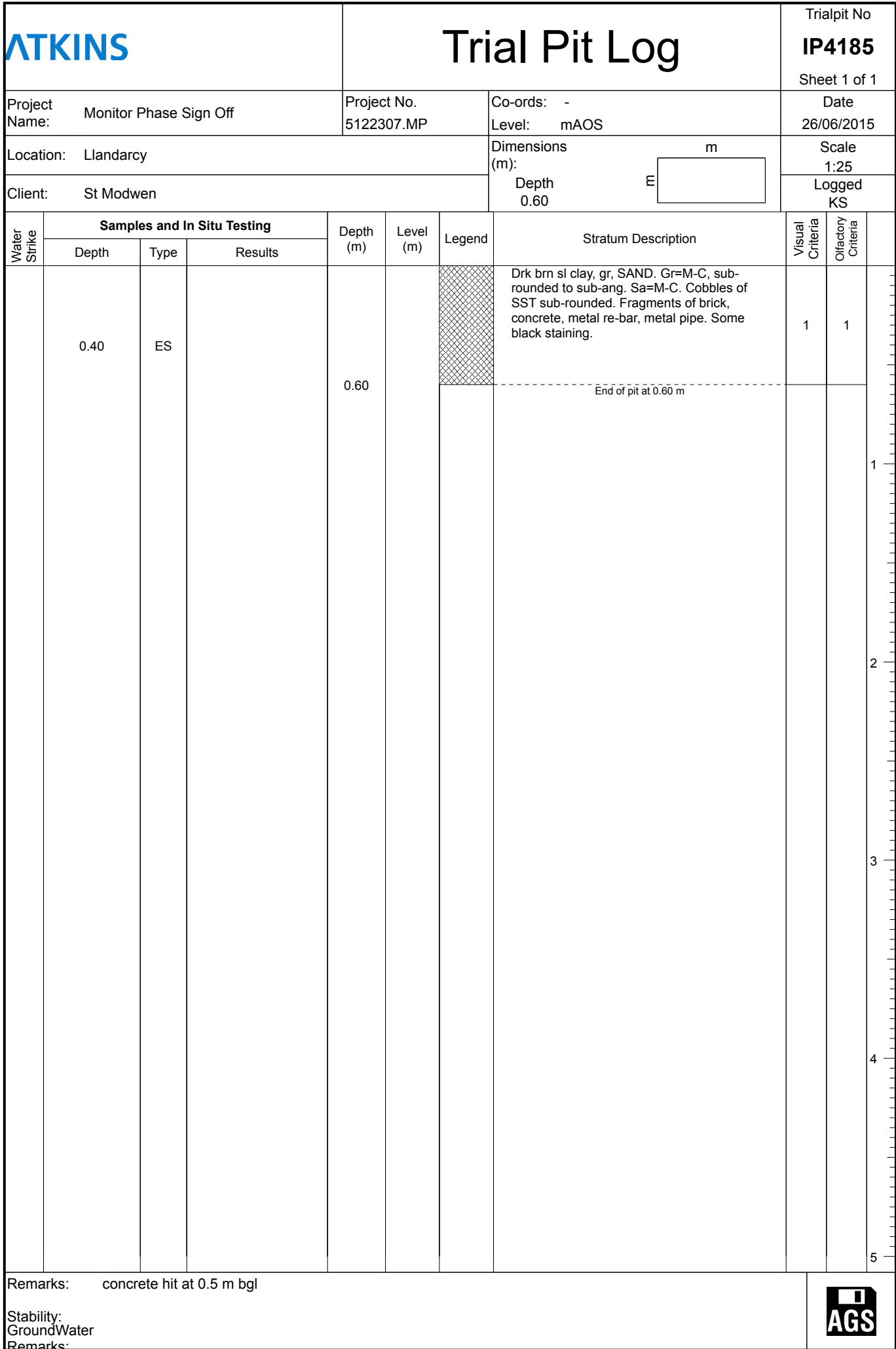
Remarks: pit stopped due to pipe filled with black water

Stability:

GroundWater

Remarks:

Clay pipe at 1.7 m bgl filled with black coloured water, water has sheen.



Project Name: Monitor Phase Sign Off

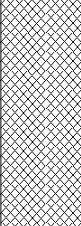
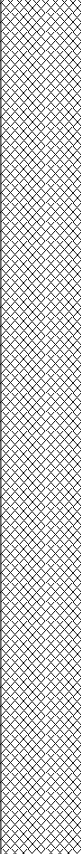
Project No.
5122307.MPCo-ords: -
Level: mAOSDate
25/06/2015

Location: Llandarcy

Dimensions (m): mScale
1:25

Client: St Modwen

Depth
5.20Logged
KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES		0.80			MG: drk brown-black sa, CLAY. With ashy black layers. Lots of cobbles present rounded to sub-ang.	0	2	
	1.50	ES					MG: drk brn -black sa, CLAY with ashy black layers. Lots of cobbles present rounded to sub-ang. Becoming sl gr @ approximately 3 m.			1
	2.50	ES		3.70				2	2	2
	3.50	ES								3
	4.50	ES					NG: drk gr-drk brn, sl clay, SAND matrix in cobbles. Cobbles= rounded to sub-rounded, 2-20cm.	1	2	4
							Continued on next sheet			5

Remarks: pit stopped due to digger extent

Stability:
GroundWater
Remarks: water trickling in @ 1.2 mbgl on C-face, black/brown in colour

				Trial Pit Log				Trialpit No IP4187 Sheet 1 of 1		
Project Name: Monitor Phase Sign Off				Project No. 5122307.MP		Co-ords: - Level: mAOS		Date 26/06/2015		
Location: Llandarcy				Dimensions (m):				Scale 1:25		
Client: St Modwen				Depth 3.20				Logged KS		
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
							Concrete			
	0.50	ES		0.40			MG: black ashy, SAND with bits of bricks, concrete & SST cobbles.	1	3	1
	1.50	ES		1.20			NG: drk brn-grey, sl gr, clay, SAND. Round-sub-rounded cobbles of SST.			
	2.50	ES						1	3	2
				3.20			End of pit at 3.20 m			3
										4
										5
Remarks: pit stopped due to hole being too narrow due to concrete on either side of the hole										
Stability: GroundWater Remarks:										

Project Name: Monitor Phase Sign Off

Project No.
5122307.MPCo-ords: -
Level: mAOSDate
26/06/2015

Location: Llandarcy

Dimensions (m): mScale
1:25

Client: St Modwen

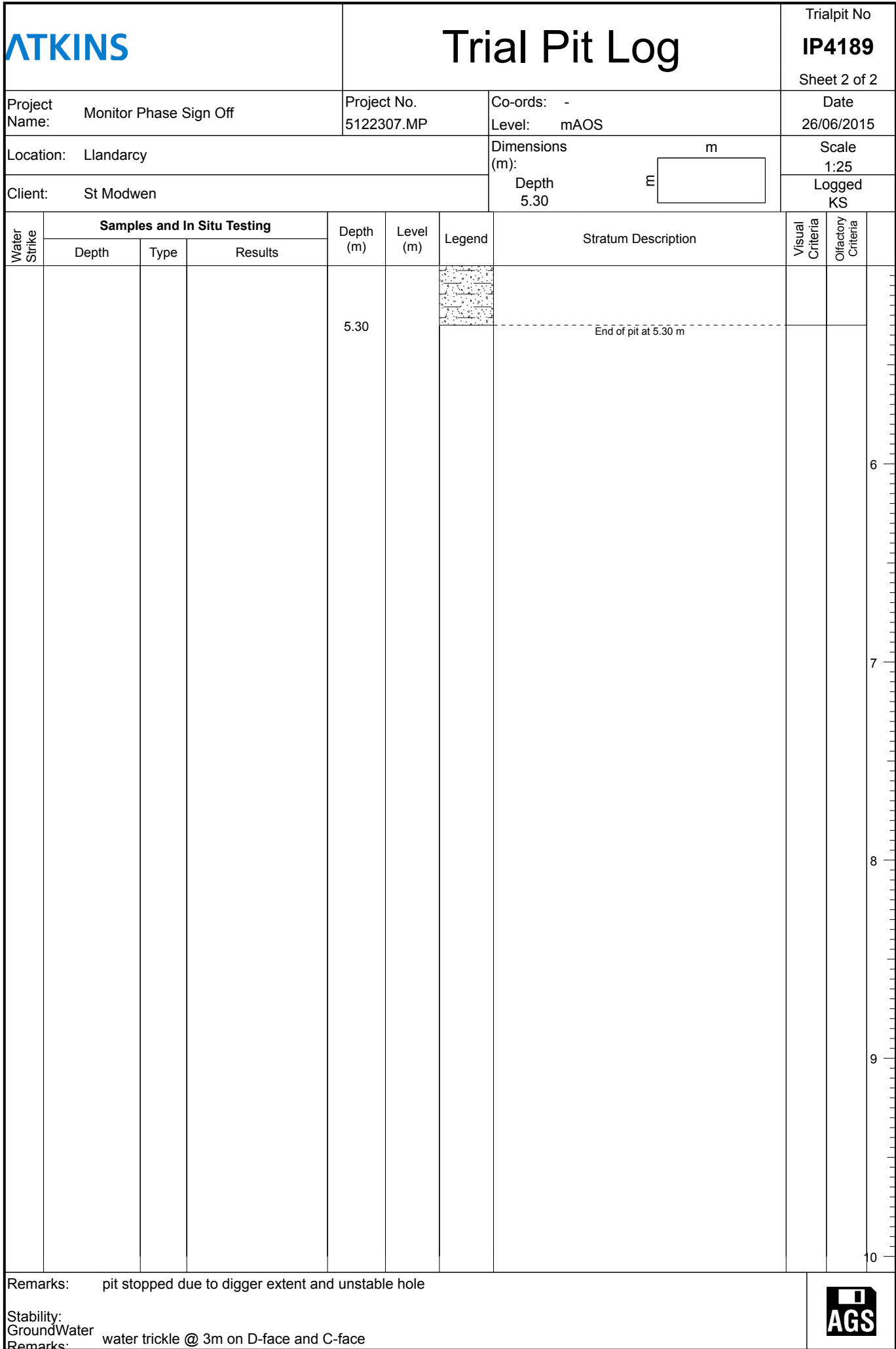
Depth
5.30Logged
KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES					MG: drk grey sl gr, clay, SAND. Gr=M-C, Sa=F-M. Black staining. Fragments of brick, concrete. Rounded-sub-rounded cobbles.	2	1	
	1.10	ES		1.20						1
	2.50	ES					NG: orange-drk brn, sl gr, clay, SAND. Gr=F-C, Sa= M-C.			2
▼	3.50	ES						0	2	3
	5.00	ES								4
										5

Continued on next sheet

Remarks: pit stopped due to digger extent and unstable hole

Stability:
GroundWater
Remarks: water trickle @ 3m on D-face and C-face





IP4191

Sheet 1 of 1

Co-ords: -
Level: mAOS

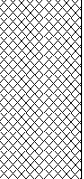
Date
25/06/2015

Dimensions (m):

Scale
1:25

Depth
0.60

Logged
KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES		0.60			Concrete hit @ 0.6 m. soil matrix= drk grey-black sl clay, gr, SAND. With rounded to sub-ang cobbles of SST. Frags of brick, plastic, metal, concrete. Black sheen on some fragments. Solvent/sulphury smell on soil.	1	1	
							End of pit at 0.60 m			

Remarks:	concrete hit at 0.6 m bgl
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Stability:
GroundWater
Remarks:



Project Name: Monitor Phase Sign Off

Project No.
5122307.MPCo-ords: -
Level: mAOSDate
25/06/2015

Location: Llandarcy

Dimensions (m):

m

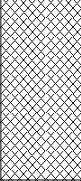
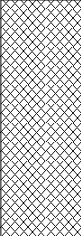
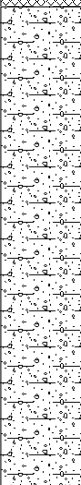
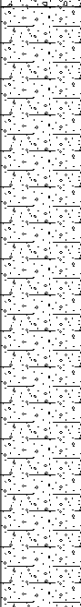
Scale
1:25

Client: St Modwen

Depth
5.50

m

Logged
KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
				0.60			Concrete/bricks			
				1.40			MG: black ashy, SAND with bits of bricks, concrete & SST cobbles.	3	2	1
	1.50	ES					NG: drk brn-grey sl clay, gr, SAND. Gr=F-M, sub-rounded to sub-ang. Sa=F-M. Sub-rounded to sub-ang cobbles of SST.			2
	2.50	ES					NG: orange sl gr, clay, SAND. Strong, tangy, solventy smell.			3
	3.50	ES		3.00						
	4.50	ES						1	4	4
										5

Continued on next sheet

Remarks: pit stopped due to digger extent

Stability:
GroundWater
Remarks: water seepage @ 4.5 mbgl on C-face



IP4202

Sheet 2 of 2

Project Name: Monitor Phase Sign Off

Project No.	5122307.MP
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Co-ords:	-
Level:	mAOS

Date
25/06/2015

Location: Llandarcy

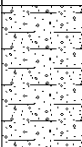
Dimensions (m):

Scale
1:25

Client: St Modwen

Depth
5.50

Logged
KS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	Remarks
	Depth	Type	Results							
	5.50	ES		5.50			End of pit at 5.50 m			

Remarks:	pit stopped due to digger extent
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Stability:
GroundWater
Remarks: water seepage @ 4.5 mbgl on C-face



Date
24/06/2015

Scale
1:25

Logged
WS

A vertical bar with five horizontal tick marks. The tick marks are labeled 1, 2, 3, 4, and 5 from top to bottom.

Stability:
GroundWater
Remarks: None encountered

Project Name: Monitor Phase Sign Off

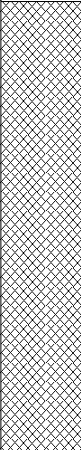
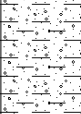
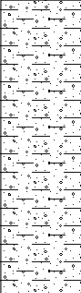
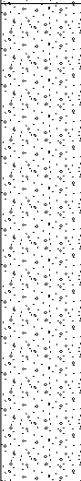
Project No.
5122307.MPCo-ords: -
Level: mAOSDate
23/06/2015

Location: Llandarcy

Dimensions (m): mScale
1:25

Client: St Modwen

Depth
4.50Logged
WS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES					MADE GROUND: Dark brown light grey slightly silty gravelly fine to medium SAND. Gravel of angular to sub-rounded fine to coarse sandstone. Cobbles of angular sandstone. Bitumen streaks on soil at 1.50m	0	3	1
	1.60	ES		1.50			Soft dark brown mottled light grey sandy gravelly CLAY with cobbles of angular to sub-rounded sandstone. Gravel of angular to rounded fine to coarse sandstone. Frequent petroleum bitumen staining and odour. Primarily migrating through gravel in clay, with staining on gravel content	3	4	2
	2.00	ES		1.90			Soft dark brown mottled light grey sandy gravelly CLAY with cobbles of angular to sub-rounded sandstone. Gravel of angular to rounded fine to coarse sandstone	0	1	
	3.00	ES		2.90			Dark yellow slightly silty slightly clayey gravelly fine to medium SAND with cobbles of angular sandstone. Gravel of angular to rounded fine to coarse sandstone.	0	0	3
	4.00	ES								4
				4.50			End of pit at 4.50 m			5

Remarks: Pit terminated at 4.50m within weathered bedrock

Stability:
GroundWater
Remarks: None encountered

Project Name: Monitor Phase Sign Off

Project No.
5122307.MPCo-ords: -
Level: mAOSDate
24/06/2015

Location: Llandarcy

Dimensions (m):

m

Scale
1:25

Client: St Modwen

Depth
3.50

E

Logged
WS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
▼	0.50	ES		0.66			Dark brown light grey slightly clayey gravelly fine to coarse SAND with cobbles of sub-rounded sandstone. Gravel of angular to sub-rounded fine to coarse sandstone	0	3	1
	1.00	ES		1.40			Dark brown very clayey slightly silty gravelly fine to coarse SAND with cobbles of sub-rounded sandstone. Gravel of sub-angular to sub-rounded fine to coarse sandstone	3	1	
	1.50	ES		2.40			Soft to firm dark brown very sandy gravelly CLAY with cobbles of sub-rounded sandstone. Sand is fine to coarse. Gravel of sub-angular to sub-rounded fine to coarse sandstone	1	1	
	2.50	ES		2.60			Grey slightly clayey very gravelly coarse SAND with boulders of rounded to sub-rounded sandstone. Gravel of rounded fine to coarse sandstone	0	1	3
	3.00	ES		3.50			Dark orange brown slightly silty gravelly medium to coarse SAND with cobbles of sub-rounded sandstone. Gravel of sub-rounded fine to coarse sandstone	0	2	
							End of pit at 3.50 m			4
										5

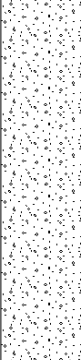
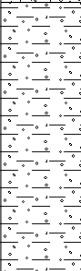
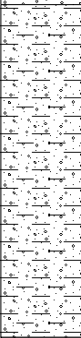
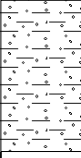
Remarks: Pit terminated at 3.50m due to collapse to 2.60m

Stability:

GroundWater

Remarks:

Water ingress at 1.20m from south of the pit

				Trial Pit Log				Trialpit No IP4170 Sheet 1 of 1		
Project Name: Monitor Phase Sign Off				Project No. 5122307.MP		Co-ords: - Level: mAOS		Date 25/06/2015		
Location: Llandarcy				Dimensions (m):		m		Scale 1:25		
Client: St Modwen				Depth 3.70				Logged WS		
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES		1.20			Dark grey blue to black slightly clayey gravelly fine to coarse SAND with cobbles of angular to very angular sandstone. Gravel of angular to very angular fine to coarse sandstone	3	4	1
	1.30	ES						Stiff brown gravelly CLAY with cobbles of sub-rounded sandstone. Gravel of sub-angular to sub-rounded fine to coarse sandstone. Strong chlorinated solvent odour	2	4
	2.20	ES		3.20			Firm to stiff dark brown blue sandy gravelly CLAY with cobbles of sub-angular to sub-rounded sandstone. Gravel of sub-angular to sub-rounded fine to coarse sandstone	2	3	3
	3.30	ES						Stiff dark brown gravelly CLAY with cobbles and boulders sub-rounded sandstone. Gravel of angular to sub-rounded fine to coarse sandstone. Strong chlorinated solvent odour	2	4
				3.70			End of pit at 3.70 m			5
Remarks: Pit terminated at 3.70m due to collapse										
Stability: GroundWater Remarks: Water ingress at 2.60m										
										

Project Name: Monitor Phase Sign Off

Project No.
5122307.MPCo-ords: -
Level: mAOSDate
25/06/2015

Location: Llandarcy

Dimensions (m):

m

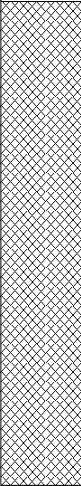
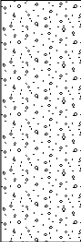
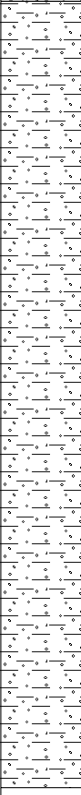
Scale
1:25

Client: St Modwen

Depth
5.00

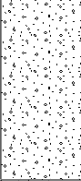
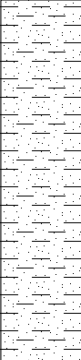
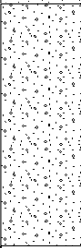
m

Logged
WS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES					MADE GROUND: Dark grey-dark blue slightly clayey very gravelly fine to coarse SAND with cobbles of angular to very angular sandstone. Gravel of angular to very angular fine to coarse sandstone. Pipe at 0.40m north-eastern side of pit	2	3	1
	1.50	ES		1.60			Dark brown dark blue clayey fine to coarse SAND and GRAVEL with cobbles of sub-rounded sandstone. Gravel of very angular to sub-rounded fine to coarse sandstone	2	3	2
	2.00	ES		2.40			Firm to stiff brown gravelly CLAY with cobbles and boulders of sub-rounded sandstone. Gravel of sub-rounded fine to coarse sandstone	0	0	3
	3.00	ES								4
				5.00			End of pit at 5.00 m			5

Remarks: Pit terminated at 5.00m within weathered bedrock

Stability:
GroundWater
Remarks: None encountered

				Trial Pit Log				Trialpit No IP4177 Sheet 1 of 1		
Project Name: Monitor Phase Sign Off				Project No. 5122307.MP		Co-ords: - Level: mAOS		Date 24/06/2015		
Location: Llandarcy				Dimensions (m):		m		Scale 1:25		
Client: St Modwen				Depth 2.60				Logged WS		
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES		0.60			Dark brown-light grey slightly clayey gravelly fine to coarse SAND with cobbles of sub-rounded sandstone. Gravel of angular to sub-rounded fine to coarse sandstone. Strong VOC/solvent odour	0	4	1
	0.90	ES						Soft dark grey slightly gravelly very sandy CLAY/very clayey SAND with cobbles of sub-rounded sandstone. Gravel of angular to sub-rounded fine to coarse sandstone. Sand is fine to coarse. Strong solvent odour	0	
	2.00	ES		1.80			Dark grey slightly silty gravelly SAND with cobbles and boulders of sub-rounded sandstone. Sand is coarse. Gravel of angular to sub-rounded fine to coarse sandstone. Strong solvent odour	0	4	2
				2.60		End of pit at 2.60 m				
										4
										5
Remarks: Pit terminated at 2.60m due to collapse to 1.80m										
Stability: GroundWater Fast inflow at 1.80m from south of the pit Remarks:										
										

Project Name: Monitor Phase Sign Off

Project No.
5122307.MPCo-ords: -
Level: mAOSDate
25/06/2015

Location: Llandarcy

Dimensions (m):

m

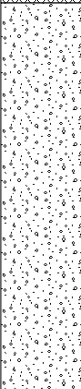
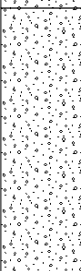
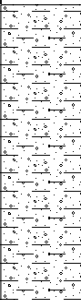
Scale
1:25

Client: St Modwen

Depth
4.40

E

Logged
WS

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
▼	0.20			0.20			MADE GROUND: Light yellow fine to medium SAND with cobbles of sub-rounded concrete.	0	0	
	0.50	ES					Dark grey dark blue clayey SAND and GRAVEL with cobbles and boulders of sub-rounded sandstone. Gravel of angular to sub-rounded fine to coarse sandstone. Sand is fine to coarse	2	3	1
	1.50	ES		1.50						
	2.00	ES					Dark grey dark blue clayey SAND and GRAVEL with cobbles and boulders of sub-rounded sandstone. Gravel of angular to sub-rounded fine to coarse sandstone. Sand is fine to coarse	2	2	2
	2.50	ES		2.40						
▼	3.50	ES					Soft dark brown gravelly very sandy CLAY with cobbles of angular to sub-angular sandstone. Gravel of angular to very angular fine to coarse sandstone			3
								0	1	4
				4.40			End of pit at 4.40 m			5

Remarks: Pit terminated at 4.40m due to partial collapse

Stability:
GroundWater
Remarks: Water ingress at 3.40m

Trial Pit Log

Trialpit No

IP4168

Sheet 1 of 2

Project Name: Coed Darcy Site Wide Sign Off

Project No.
5122307_SWP_Rev2

Co-ords: 271250.00 - 196115.45

Level: mAOS

Date

20/07/2015

Location: Coed Darcy

Dimensions (m):

m

Scale

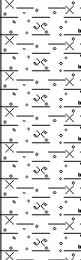
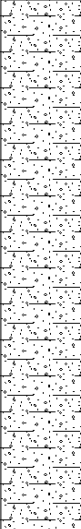
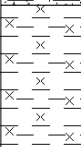
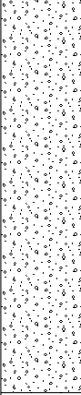
1:25

Client: St Modwen

Depth
5.30

E

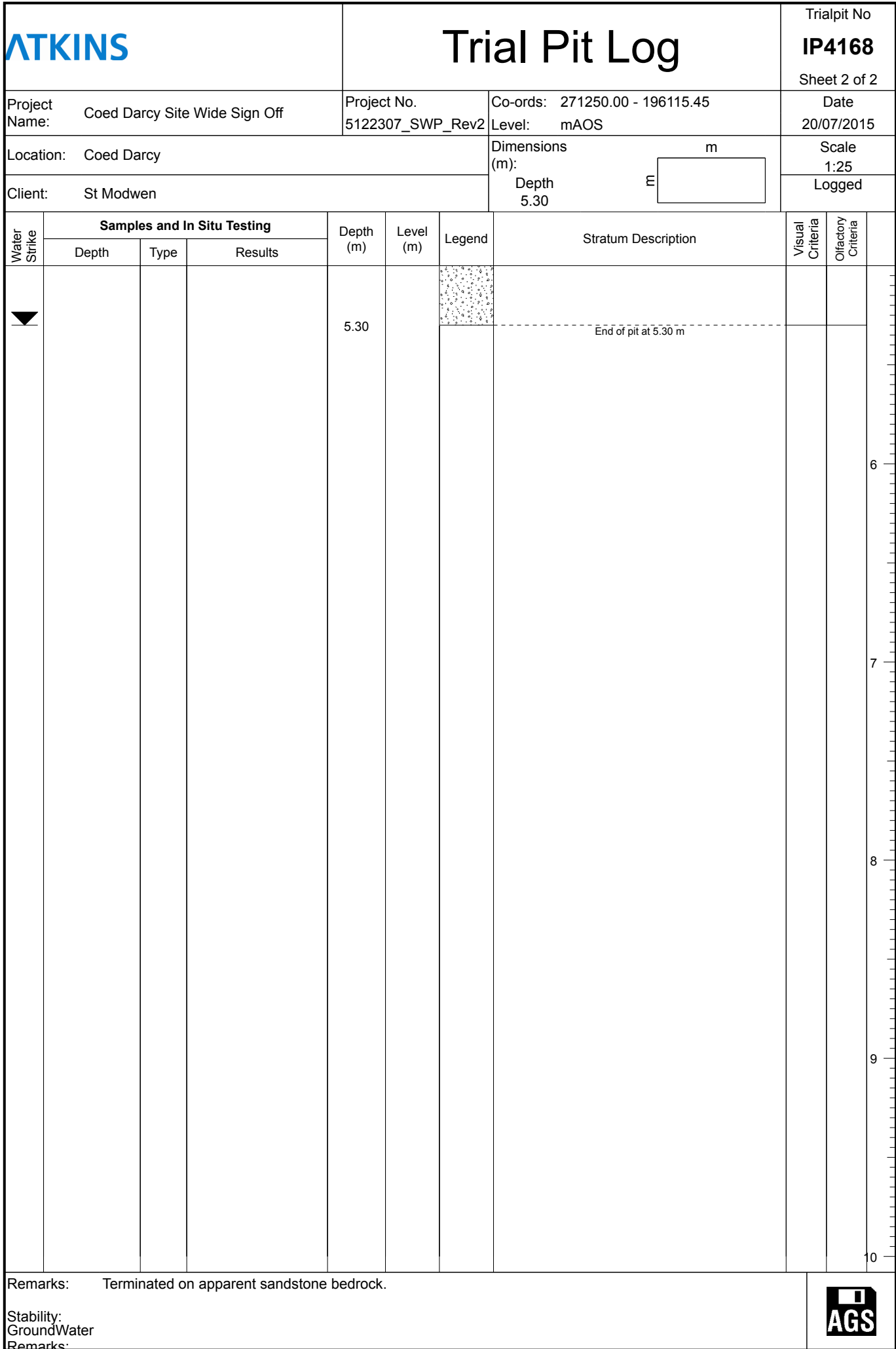
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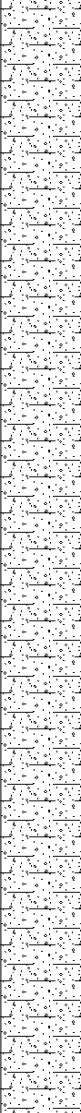
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES		0.50			Concrete blocks.			
							Brown sandy silty gravelly CLAY with occasional patches of bitumen. Gravel is fine to coarse angular to subround sandstone.	5	3	1
	1.50	ES		1.40			Brown clayey gravelly SAND. Gravel is fine to coarse subround sandstone.			2
	2.50	ES					Brown occasionally grey stained silty CLAY with rare gravel patches. Gravel is fine to medium subangular to subround sandstone.	1	4	
							Brown coarse SAND and GRAVEL with rounded sandstone cobbles.	4	4	3
	3.50	ES		3.20						
	4.50	ES		3.70						4
								3	4	
										5
							Continued on next sheet			

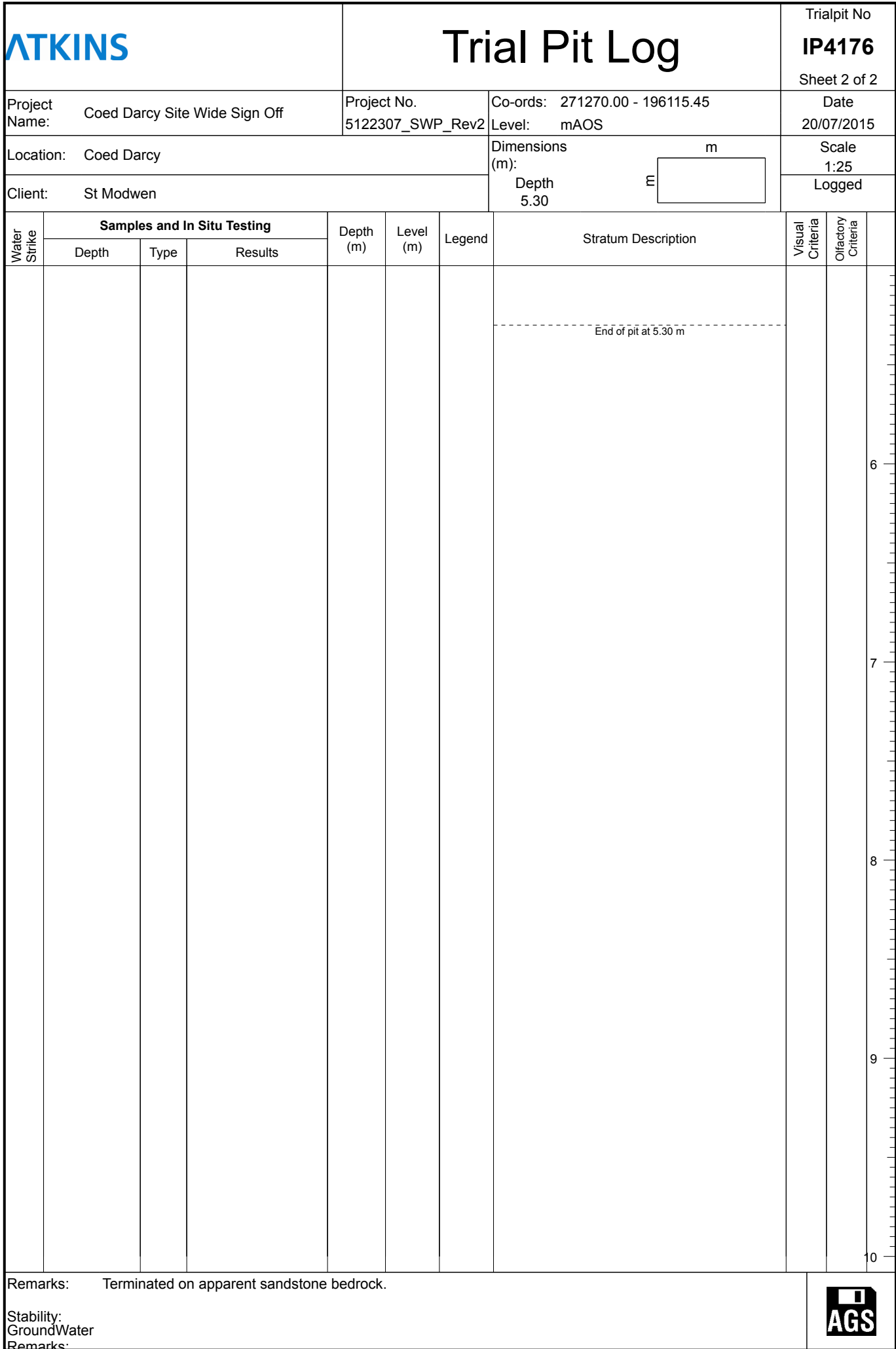
Remarks: Terminated on apparent sandstone bedrock.

Stability:
GroundWater

Remarks:



				Trial Pit Log				Trialpit No IP4176 Sheet 1 of 2		
Project Name: Coed Darcy Site Wide Sign Off				Project No. 5122307_SWP_Rev2		Co-ords: 271270.00 - 196115.45 Level: mAOS		Date 20/07/2015		
Location: Coed Darcy						Dimensions (m):		Scale 1:25		
Client: St Modwen						Depth 5.30		Logged		
Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
	0.50	ES		0.70			CONCRETE slab.			
	1.50	ES						Brown frequently grey stained clayey gravelly SAND. Gravel is fine to coarse subround to subangular sandstone.		
	2.50	ES								
	3.50	ES								
	4.50	ES		4.40 4.40			Apparent SANDSTONE bedrock.			
Continued on next sheet										
Remarks: Terminated on apparent sandstone bedrock.										
Stability: GroundWater Remarks:										





Trialpit No
IP4149
Sheet 1 of 1

Project Name: Monitor Phase Sign Off

Project No.
5122307.MP

Co-ords: -
Level: mAOS

Date
21/07/2015

Location: Llandarcy

Dimensions
(m):

m

Scale
1:25

Client: St Modwen

Depth
2.20

3

Logged
JL

[illegible]

Remarks:	Very fast GW strike at 1.5m, slight hydrocarbon sheen on GW. Ended due to flooding.
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Stability: Stable
GroundWater

Remarks:





Trialpit No
IP4153
Sheet 2 of 2

Project Name: Monitor Phase Sign Off

Project No.
5122307.MP

Co-ords: -
Level: mAOS

Date
14/07/2015

Location: Llandarcy

Dimensions
(m):

m

Scale
1:25

Client: St Modwen

Depth
5.70

3

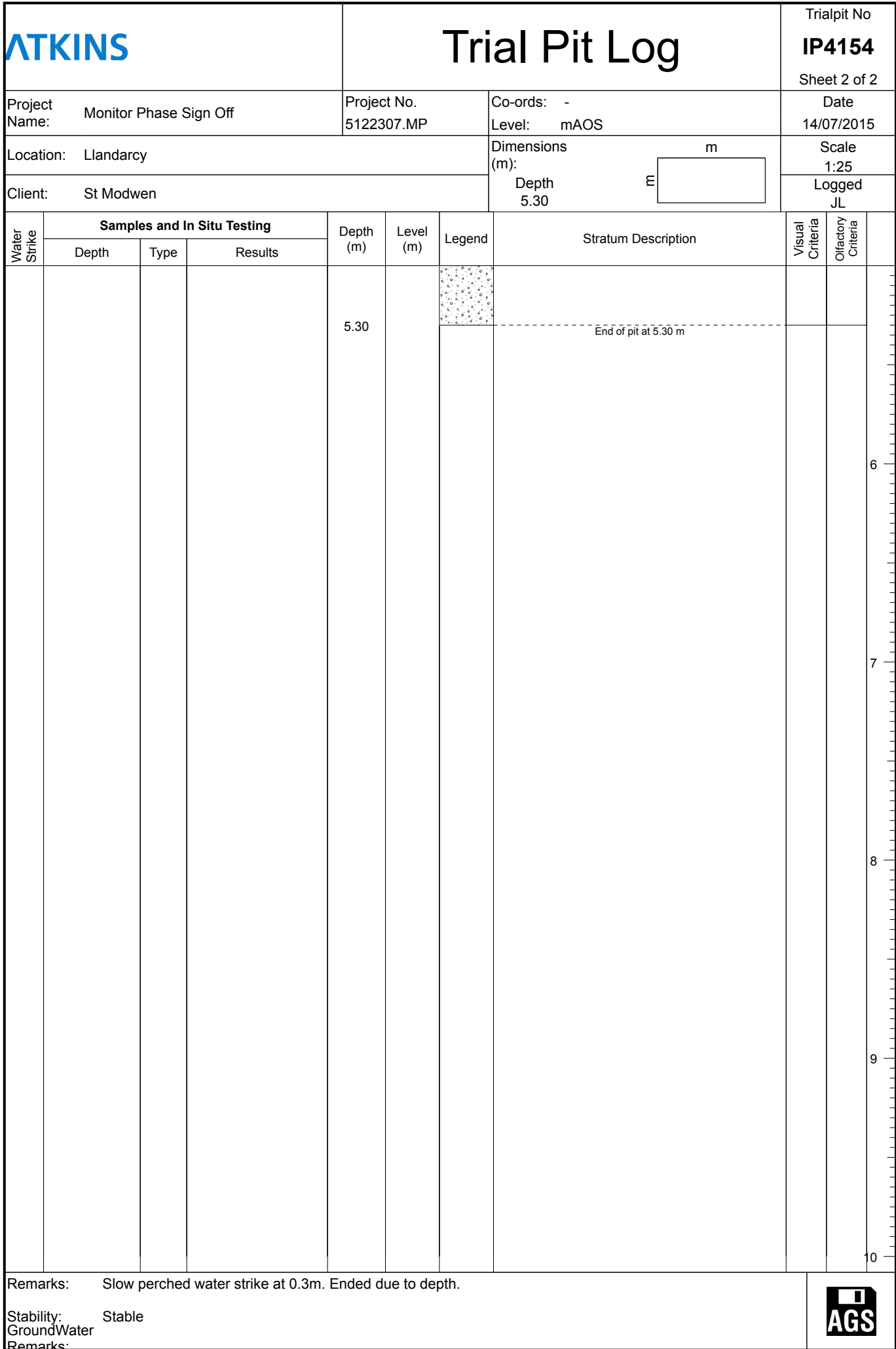
Logged
JL

[illegible]

Remarks:	No GW strikes. Ended due to depth.
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Stability:	Stable
GroundWater	
Remarks:	





Project Name: Monitor Phase Sign Off

Project No.
5122307.MP

Co-ords: -
Level: mAOS

Date
15/07/2015

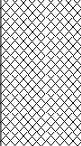
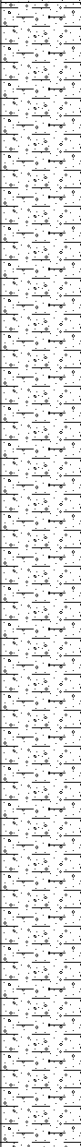
Location: Llandarcy

Dimensions (m):
Depth 5.90 m

Scale
1:25

Client: St Modwen

Logged
JL

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
▼	0.30	ES		0.50			MADE GROUND. Brown gravelly medium to coarse SAND. Gravel is angular to subangular medium coarse of concrete.	0	0	1
	0.70	ES					Orangish brown sandy CLAY. Sand is fine to medium.	0	0	
	1.60	ES		1.20			Grey sandy gravelly CLAY. Gravel is subrounded to rounded fine to coarse of sandstone. Sand is fine to coarse.	0	0	2
	2.40	ES								
	3.80	ES								3
										4
										5

Continued on next sheet

Remarks: Water strike at 0.9m. Ended due to depth.

Stability: Stable

GroundWater

Remarks:

Trial Pit Log



Trialpit No
IP4156
Sheet 1 of 2

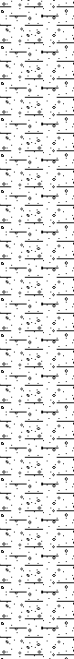
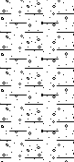
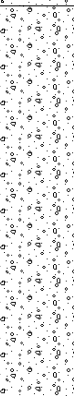
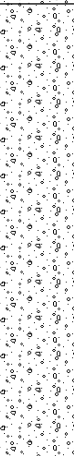
Co-ords:	-
Level:	mAOS

Date
15/07/2015

Scale
1:25

Logged
JL

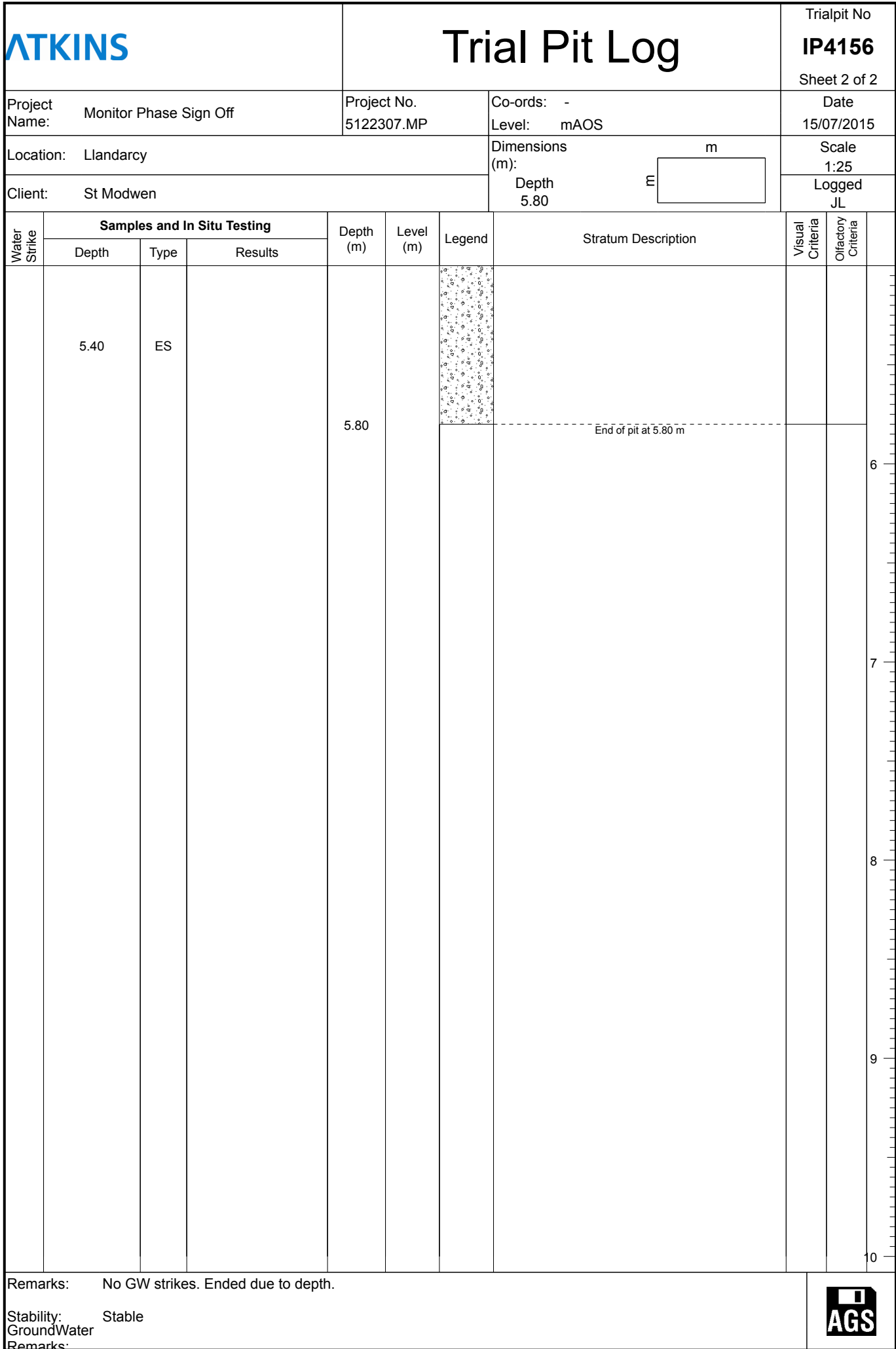
Depth	5.80
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Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria		
	Depth	Type	Results								
	0.50	ES		2.20			Brown slightly sandy gravelly CLAY. Gravel is subangular to subrounded of sandstone. Sand is fine coarse.	0	0	1	
	1.70	ES					Brown sandy cobbley angular to subrounded fine to coarse GRAVEL of sandstone.	2	1	2	
	2.50	ES					Brown sandy cobbley subangular fine to coarse GRAVEL of sandstone.	1	1	3	
	3.80	ES					Brown sandy cobbley subangular fine to coarse GRAVEL of sandstone.	1	1	4	
											5
	Continued on next sheet										

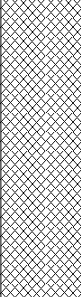
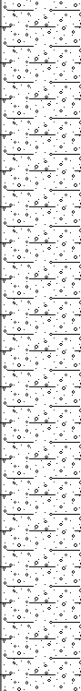
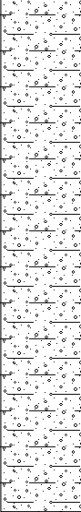
Remarks:	No GW strikes. Ended due to depth.
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Stability:	Stable
GroundWater	
Remarks:	





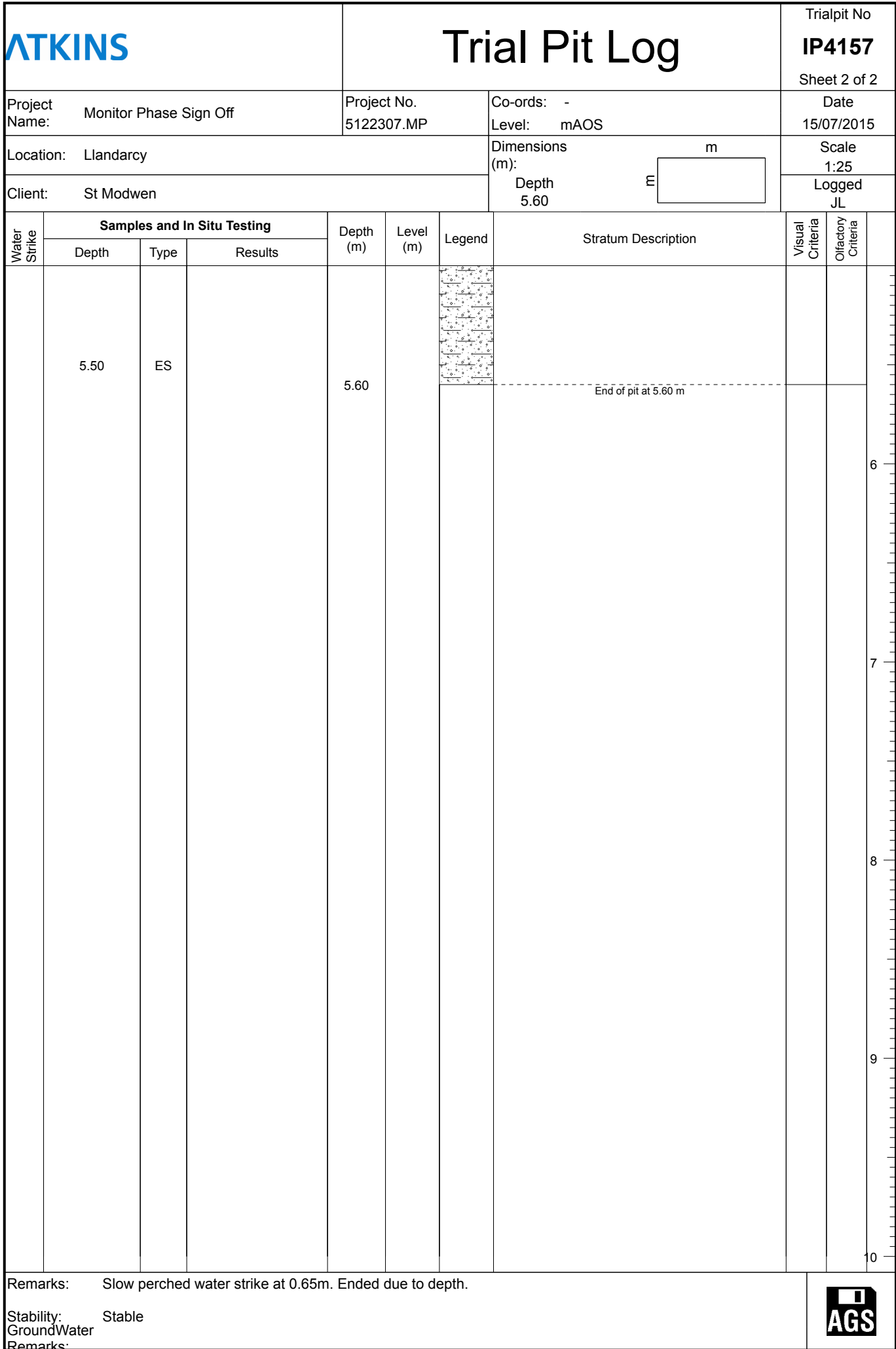
				Trial Pit Log				Trialpit No IP4157 Sheet 1 of 2	
Project Name: Monitor Phase Sign Off				Project No. 5122307.MP		Co-ords: - Level: mAOS		Date 15/07/2015	
Location: Llandarcy				Dimensions (m):		Scale 1:25		Logged JL	
Client: St Modwen				Depth 5.60					

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria		
	Depth	Type	Results								
	0.40	ES		1.00		MADE GROUND. Blueish brown slightly clayey gravelly fine to coarse SAND. Gravel is fine to coarse subrounded of sandstone. Rare brick and rebar.	1	3	1		
	1.60	ES					Brownish blue slightly sandy clayey medium to coarse subrounded to subangular GRAVEL of sandstone.	3		2	2
	2.50	ES									
	4.00	ES				3.30		Brown slightly sandy clayey angular to subangular medium to coarse GRAVEL of sandstone with rare angular cobbles of sandstone.		0	0
Continued on next sheet									5		

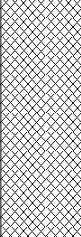
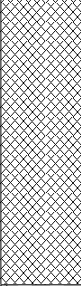
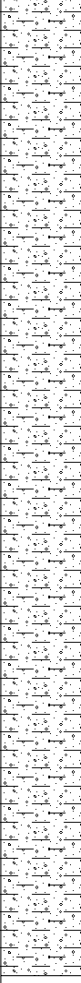
Remarks: Slow perched water strike at 0.65m. Ended due to depth.

Stability: Stable
 GroundWater
 Remarks:





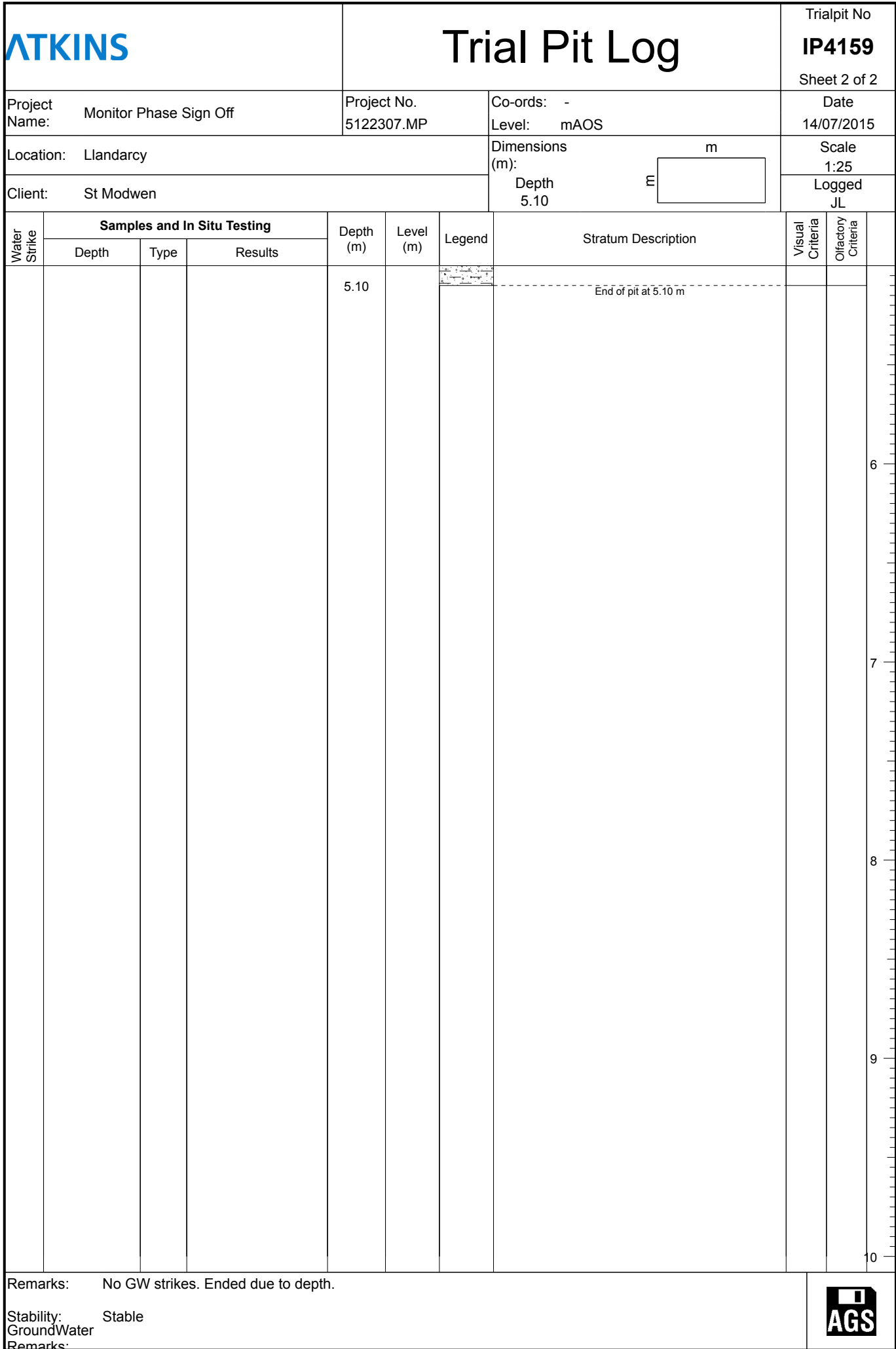
				Trial Pit Log				Trialpit No IP4159 Sheet 1 of 2	
Project Name: Monitor Phase Sign Off				Project No. 5122307.MP		Co-ords: - Level: mAOS		Date 14/07/2015	
Location: Llandarcy				Dimensions (m):		Scale 1:25		Logged JL	
Client: St Modwen				Depth 5.10					

Water Strike	Samples and In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description	Visual Criteria	Olfactory Criteria	
	Depth	Type	Results							
				0.80			MADE GROUND. Concrete pad and brick rubble. Pecker used to remove.			
	1.50	ES		1.75			MADE GROUND. Black and brown bitumen and sandy clay. Pipe on D face running E-W (removed).	5	2	1
	2.50	ES					Light greyish brown slightly sandy gravelly CLAY. Gravel is fine to coarse subangular to subrounded of sandstone. Sand is fine to coarse.			2
	3.50	ES						1	3	3
	4.70	ES								4
							Continued on next sheet			5

Remarks: No GW strikes. Ended due to depth.

Stability: Stable
 GroundWater
 Remarks:







Trialpit No
IP4163
Sheet 1 of 1

Co-ords: -
Level: mAOS

Date
22/07/2015

Dimensions (m):

Scale
1:25

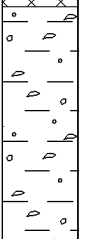
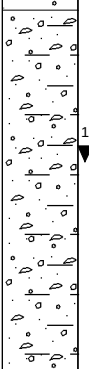
Depth
2.20

Logged
JL

[illegible]

Stability:	Stable
GroundWater	
Remarks:	

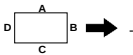


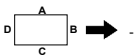
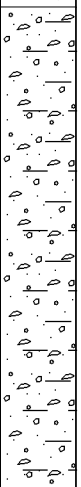
Logged AJ	Start 16/02/2015	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.3m Terminated on bedrock.	Dimensions and Orientation Width 1.60 m Length 3.50 m		Ground Level Coordinates National Grid Chainage	
Checked AP	End 16/02/2015					
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level (Thickness)	Legend	Backfill/ Instruments
0.30	ES 1		1 (MADE GROUND) Dark brown sandy slightly clayey subangular to subrounded, fine to coarse GRAVEL of sandstone and clinker. Sand is fine to coarse of ash. Frequent roots and rootlets. (VO = 0,0)	0.30		
			2 Soft grey sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse of sandstone. (VO = 2,3)	(0.80)		
1.50	ES 2		3 Grey sandy clayey subangular to subrounded frequently tabular, fine to coarse GRAVEL of sandstone with high cobble content. Sand is fine to coarse. Cobbles are subangular to subrounded of sandstone. (VO = 3,3)	1.10		
2.30	ES 3		EXPLORATORY HOLE ENDS AT 2.30 m	2.30		

Trial Pit Log

Logged CB Checked AP		Start 10/02/2015 End 10/02/2015	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.5m Terminated on bedrock.	Dimensions and Orientation Width 1.50 m Length 3.00 m 	Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata	Depth, Level/ (Thickness) Legend Backfill/ Instruments		
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.80	ES 1		1 (MADE GROUND) Soft dark brown slightly gravelly sandy SILT with frequent cobbles. Sand is fine to coarse. Gravel is angular to subrounded, fine to coarse of sandstone and frequent brick. Cobbles are angular to subrounded of sandstone and frequent brick. Frequent roots and rootlets. (VO = 0,0)	0.30		
1.80	ES 2		2 (MADE GROUND) Soft dark bluish brown slightly gravelly slightly sandy CLAY with medium cobble content. Gravel is angular to subrounded of sandstone. Sand is fine to coarse. Cobbles are angular to subrounded of sandstone. (VO = 0,0)	(1.50)		
			3 (MADE GROUND) Very soft dark bluish brown frequently stained black gravelly slightly sandy CLAY with low cobble content. Gravel is angular to subrounded, fine to coarse of sandstone and rare brick. Sand is fine to coarse. Cobbles are angular to subrounded of sandstone. (VO = 3,3)	1.80		
			EXPLORATORY HOLE ENDS AT 2.50 m 2.50 m bedrock	2.50		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Cloudy		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4804/03/2015 09:49:59			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit TPE3143 Sheet 1 of 1		

[illegible]

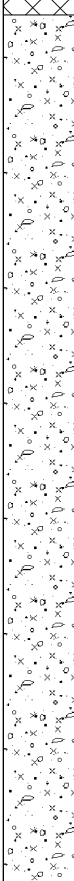
Logged CB	Start 10/02/2015	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 1.0m Terminated due to concrete pipe.	Dimensions and Orientation Width 1.50 m Length 3.00 m		Ground Level - Coordinates - National Grid - Chainage -	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (MADE GROUND) Soft light brown gravelly slightly sandy CLAY with medium cobble content. Gravel is well angular to subrounded, fine to coarse of sandstone and occasional brick. Sand is medium to coarse. Cobbles are well angular to subrounded of sandstone and rare brick. (VO = 0,0)	0.20 (0.80)		
			2 (MADE GROUND) Soft dark black brown slightly gravelly slightly sandy CLAY with low cobble content. Gravel is angular to subrounded of sandstone and rare brick. (VO = 1,0)	1.00		
			EXPLORATORY HOLE ENDS AT 1.00 m 1.00 m Concrete pipe (600mm diameter).			
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Cloudy	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4805/03/2015 10:23:27			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit TPE3393 Sheet 1 of 1	

Logged JH Checked AP	Start 16/02/2015 End 16/02/2015	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 2.9m Terminated on bedrock.	Dimensions and Orientation Width 1.60 m Length 3.50 m 		Ground Level Coordinates National Grid Chainage	-	-	-
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments		
0.50	ES 1		1 Dark brown sandy friable CLAY. Sand is fine to medium. Occasional roots. (VO = 0,0) 2 Soft brown sandy slightly gravelly CLAY with low cobble content. Gravel is subangular to rounded, fine to coarse of sandstone. Cobbles are subangular to rounded of sandstone. (VO = 0,0)	(0.30) 0.30 (1.00)				
1.50	ES 2		3 Grey slightly sandy clayey, fine to coarse subangular to rounded GRAVEL of sandstone with medium cobble content and low boulder content. Sand is fine to coarse. Cobbles and boulders are subrounded of sandstone. (VO = 1,1)	1.30 (1.60)				
2.80	ES 3		EXPLORATORY HOLE ENDS AT 2.90 m	2.90				
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Dry		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column.			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit TPE3566 Sheet 1 of 1		

Trial Pit Log



Logged JH Checked AP		Start 12/03/2015 End 12/03/2015	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.60m. Terminated on possible bedrock.	Dimensions and Orientation Width 1.60 m Length 3.50 m A B C D B →		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.50	ES 1		1 (MADE GROUND) Black slightly sandy subangular to subrounded fine to coarse GRAVEL of clinker. Sand is fine to caorse of ash. (VO = 0,0)	(1.60)			
1.50	ES 2			1.60			
2.50	ES 3		2 Orangish brown slightly sandy silty subangular to subrounded fine to coarse GRAVEL of sandstone with high cobble content. Sand is fine to coarse. Cobbles are subrounded to well rounded of sandstone. (VO = 0,1)	(2.00)			
3.50	ES 4			3.60			
			EXPLORATORY HOLE ENDS AT 3.60 m	3.60 m Possible bedrock.			
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)			Stability Stable Shoring None Weather Rain	
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4814/04/2015 11:39:36 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited			Trial Pit TPE2253 Sheet 1 of 1	

Logged JH Checked AP	Start 12/03/2015 End 12/03/2015	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.40m. Terminated on possible bedrock.	Dimensions and Orientation Width 1.60 m Length 3.50 m A D C B ➔	Ground Level Coordinates National Grid Chainage	- - -	
Samples and Tests			Strata			
Depth	Type & No.	Date Records	Description	Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 (MADE GROUND) Black sandy subangular to subrounded fine to coarse GRAVEL of clinker. Sand is fine to coarse of ash. (VO = 0,0)	0.50		
1.50	ES 2		2 Soft greyish orange slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of sandstone. Cobbles are subrounded to well rounded of sandstone. (VO = 1,1)	(2.90)		
2.50	ES 3					
			EXPLORATORY HOLE ENDS AT 3.40 m	3.40		
Depth	Type & No.	Records Date				
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)	Stability Stable Shoring None Weather Rain		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. Scale 1:25 (c) ESG www.esg.co.uk 426.4814/04/2015 11:39:40 			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited	Trial Pit TPE2254 Sheet 1 of 1		

Trial Pit Log



Logged JH Checked AP		Start 10/03/2015 End 10/03/2015	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 3.40m. Terminated on bedrock.	Dimensions and Orientation Width 1.60 m Length 3.50 m A B C D →		Ground Level Coordinates National Grid Chainage		- - -
Samples and Tests			Strata					
Depth	Type & No.	Date Records	Description		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments	
0.40	ES 1		1 Black brown sandy subangular to subrounded fine to coarse GRAVEL of clinker. Sand is fine to coarse of ash. (VO = 0,0)		(0.40)			
1.40	ES 2		2 Light brown grey slightly sandy clayey subangular to subrounded fine to coarse GRAVEL of sandstone with moderate cobble content. Sand is fine to coarse. Cobbles are subrounded to well rounded of sandstone. (VO =1,0)		0.40			
2.40	ES 3				(3.00)			
3.40	ES 4		EXPLORATORY HOLE ENDS AT 3.40 m		3.40			
			3.40 m Bedrock					
Depth	Type & No.	Records Date						
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Fine			
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4908/04/2015 13:14:27 AGS			Project Coed Darcy Site-wide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit TPE2279 Sheet 1 of 1			

Trial Pit Log



Logged JH Checked AP		Start 10/03/2015 End 10/03/2015	Equipment, Methods and Remarks Komatsu PC210 Machine excavated trial pit from GL to 4.00m. Terminated on bedrock.	Dimensions and Orientation Width 1.60 m Length 3.50 m A B C D		Ground Level Coordinates National Grid Chainage	
Samples and Tests			Strata				
Depth	Type & No.	Date Records	Description		Depth, Level/ (Thickness)	Legend	Backfill/ Instruments
0.50	ES 1		1 Dark brown sandy gravelly SILT. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of sandstone. (VO = 0,0)		(0.70)		
1.50	ES 2		2 Grey brown slightly sandy silty subangular to subrounded fine to coarse GRAVEL of sandstone with moderate cobble content. Sand is fine to coarse. Cobbles are subrounded to well rounded of sandstone. (VO = 0,2)		0.70		
2.50	ES 3				(3.30)		
3.50	ES 4						
			EXPLORATORY HOLE ENDS AT 4.00 m		4.00		
			4.00 m Bedrock.				
Depth	Type & No.	Records Date					
Groundwater Entries No. Struck Post Strike Behaviour (m) None observed (see Key Sheet)			Depth Related Remarks * From to (m)		Stability Stable Shoring None Weather Fine		
Notes: For explanation of symbols and abbreviations see key sheet. All depths and reduced levels in metres. Stratum thickness given in brackets in depth column. (c) ESG www.esg.co.uk 426.4908/04/2015 13:14:43 AGS			Project Coed Darcy Sitewide Trial Pitting Project No. H4039-14 Carried out for St Modwen Developments Limited		Trial Pit TPE2280 Sheet 1 of 1		

Scale 1:25

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