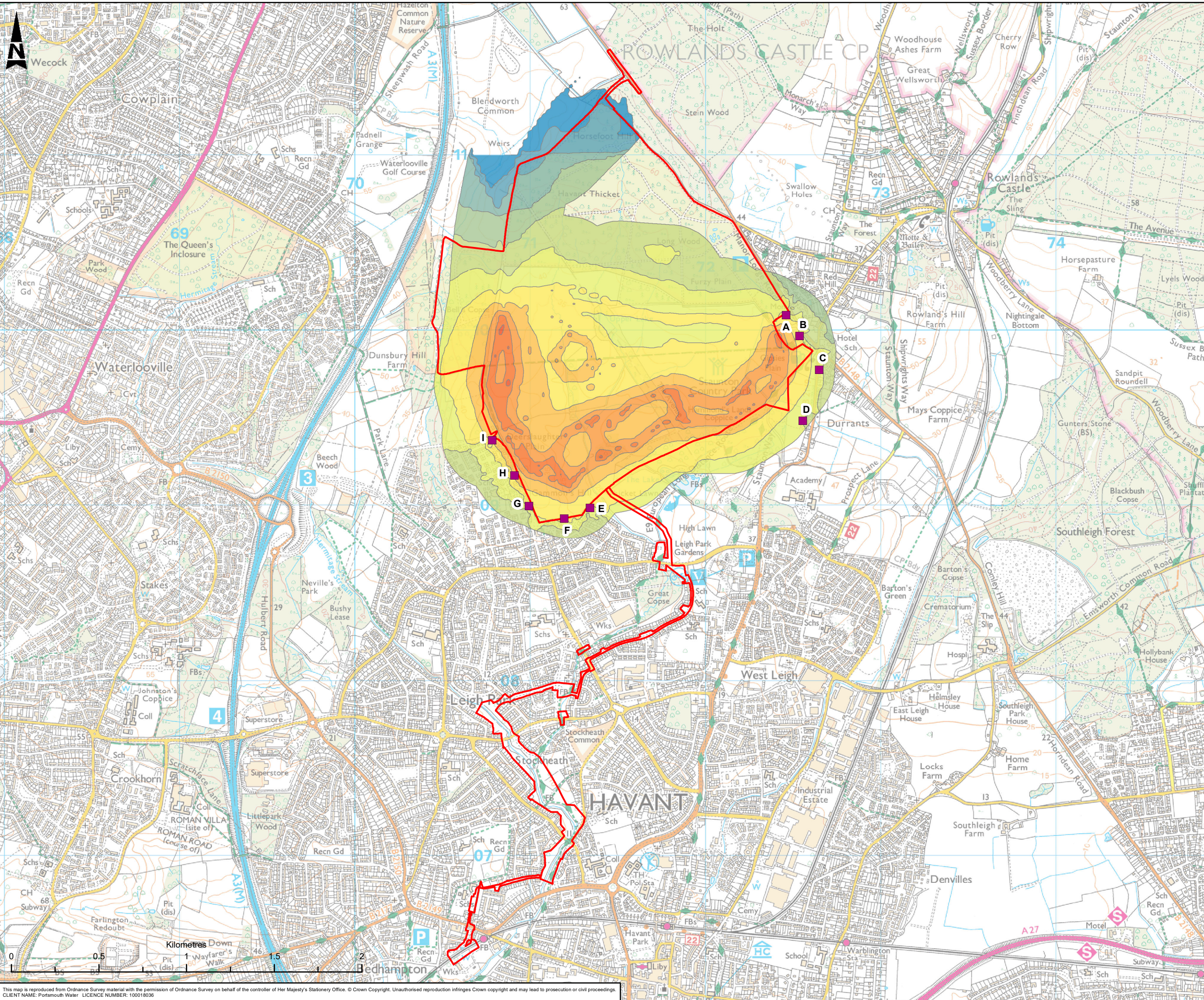




Red Line Boundary

Sample Receptor Location

Free-field calculated dB LAeq,T construction noise levels for 2023 Q2 at 4m above ground

25 - 30

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

55 - 60

60 - 65

65 - 70

70 - 75

75 - 80

80 - 85

C01	FD	DB	AL	LB	PUBLISHED	17/08/2020
P01	KP	DB	AL	WI	FOR REVIEW / COMMENT	10/07/2020
Rev	Dn By	Old By	Rev By	Auth By	Description	Date

ATKINS

Member of the SNC-Lavalin Group

Aztec West

500 Park Avenue

Almondsbury

Bristol

BS32 4RZ

Tel: +44 (0) 1454 6620000

Fax: +44 (0) 1454 663333

www.atkinsglobal.com

Copyright © Atkins Limited (2020)

Drawing Suitability	Status
PUBLISHED	A1

Contractors Drawing Number:
HTR - ATK - ZZ - ZZ - GS - Z - 0123
Project | Originator | Volume | Location | Type | Role | Number

Telephone: Havant (023) 9249 9888

Fax: Havant (023) 9245 3632

Website: www.portsmouthwater.co.uk

Registered Office: PO Box 8 West Street

Havant Hampshire PO9 1LG

REGISTERED IN ENGLAND No. 2536455

Project Ref. No	Sheet	Scale	Sheet Size
5169117	1 of 1	1:20,000	A3

Project Title

HAVANT THICKET RESERVOIR

Drawing Title

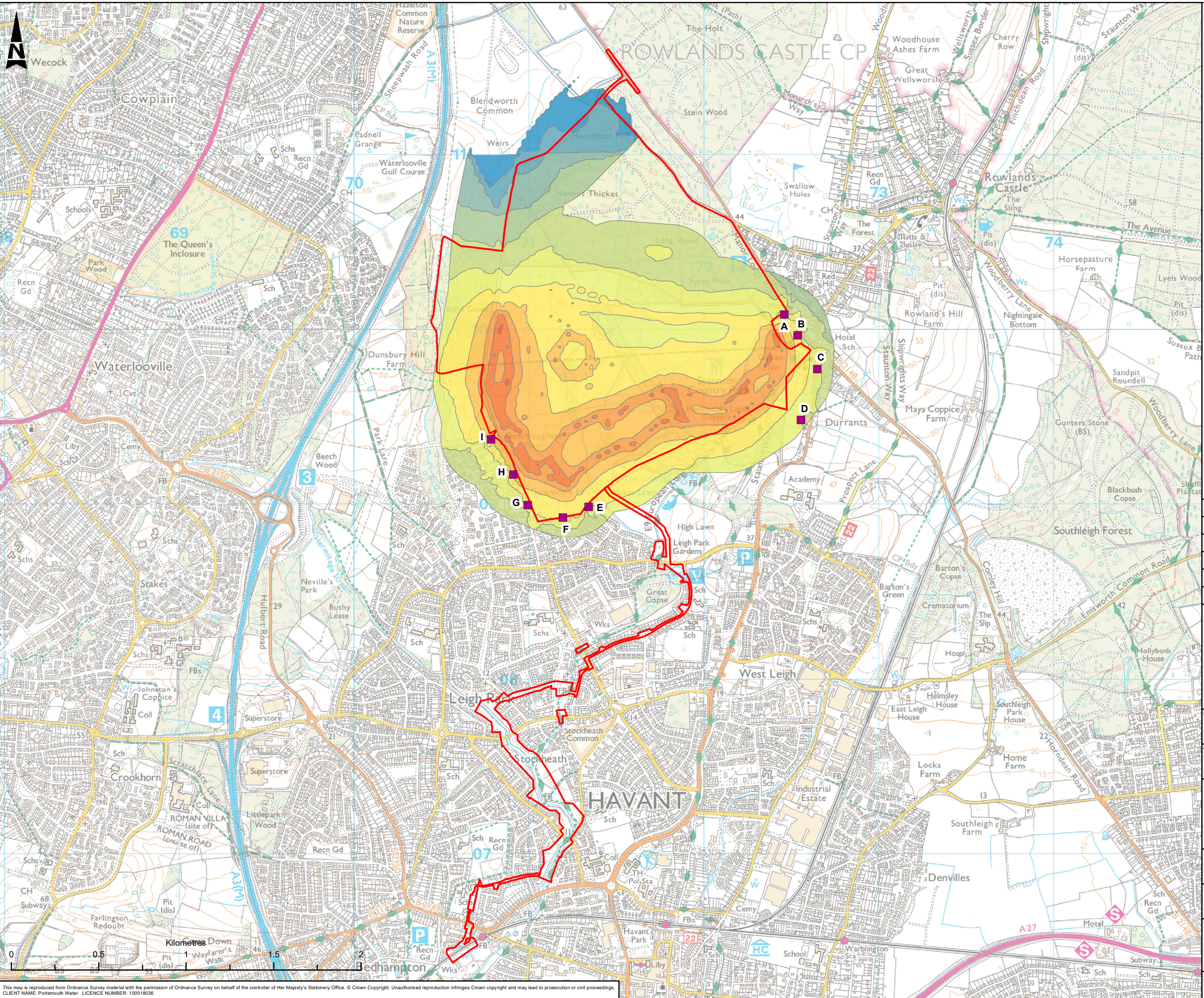
FIGURE 12.11
RESERVOIR CONSTRUCTION NOISE
CONTOUR - 2023 Q2

Portsmouth Water Drawing Number

Rev

C01

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
CLIENT NAME: Portsmouth Water LICENCE NUMBER: 100018036



Red Line Boundary

Sample Receptor Location

Free-field calculated dB LAeq,T construction noise levels for 2023 Q3 to 2026 Q2 at 4m above ground

25 - 30

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

55 - 60

60 - 65

65 - 70

70 - 75

75 - 80

80 - 85

C01	FD	DB	AL	LB	PUBLISHED	17/08/2020
P01	KP	DB	AL	WI	FOR REVIEW / COMMENT	10/07/2020
Rev	Dn By	Old By	Rev By	Auth By	Description	Date

ATKINS

Member of the SNC-Lavalin Group

Aztec West

500 Park Avenue

Almondsbury

Bristol

BS32 4RZ

Tel: +44 (0) 1454 6620000

Fax: +44 (0) 1454 663333

www.atkinsglobal.com

Copyright © Atkins Limited (2020)

Drawing Suitability	Status
PUBLISHED	A1

Contractors Drawing Number:
HTR - ATK - ZZ - ZZ - GS - Z - 0124
Project | Originator | Volume | Location | Type | Role | Number

Telephone: Havant (023) 9249 9888
Fax: Havant (023) 9245 3632
Website: www.portsmouthwater.co.uk
Registered Office: PO Box 8 West Street
Havant Hampshire PO9 1LG
REGISTERED IN ENGLAND No. 2536455

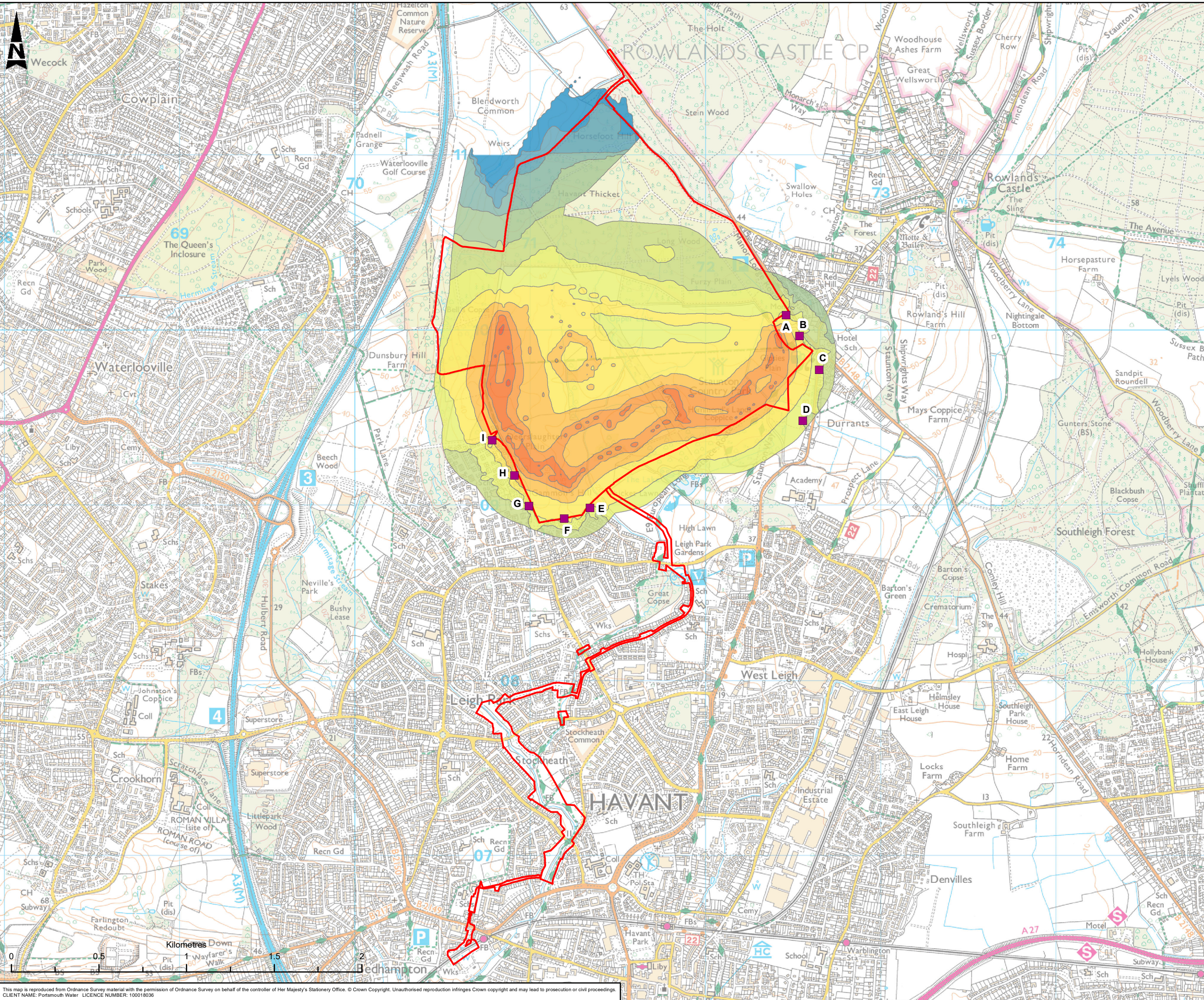
Project Ref. No	Sheet	Scale	Sheet Size
5169117	1 of 1	1:20,000	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
FIGURE 12.12
RESERVOIR CONSTRUCTION NOISE
CONTOUR - 2023 Q3 to 2026 Q2

Portsmouth Water Drawing Number
Rev
C01

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
CLIENT NAME: Portsmouth Water LICENCE NUMBER: 100018036



Red Line Boundary

Sample Receptor Location

Free-field calculated dB LAeq,T construction noise levels for 2026 Q3 at 4m above ground

25 - 30

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

55 - 60

60 - 65

65 - 70

70 - 75

75 - 80

80 - 85

C01	FD	DB	AL	LB	PUBLISHED	17/08/2020
P01	KP	DB	AL	WI	FOR REVIEW / COMMENT	10/07/2020
Rev	Dn By	Old By	Rev By	Auth By	Description	Date

ATKINS

Member of the SNC-Lavalin Group

Aztec West

500 Park Avenue

Almondsbury

Bristol

BS32 4RZ

Tel: +44 (0) 1454 6620000

Fax: +44 (0) 1454 663333

www.atkinsglobal.com

Copyright © Atkins Limited (2020)

Drawing Suitability	Status
PUBLISHED	A1

Contractors Drawing Number:
HTR - ATK - ZZ - ZZ - GS - Z - 0125
Project | Originator | Volume | Location | Type | Role | Number

Telephone: Havant (023) 9249 9888

Fax: Havant (023) 9245 3632

Website: www.portsmouthwater.co.uk

Registered Office: PO Box 8 West Street

Havant Hampshire PO9 1LG

REGISTERED IN ENGLAND No. 2536455

Project Ref. No	Sheet	Scale	Sheet Size
5169117	1 of 1	1:20,000	A3

Project Title

HAVANT THICKET RESERVOIR

Drawing Title

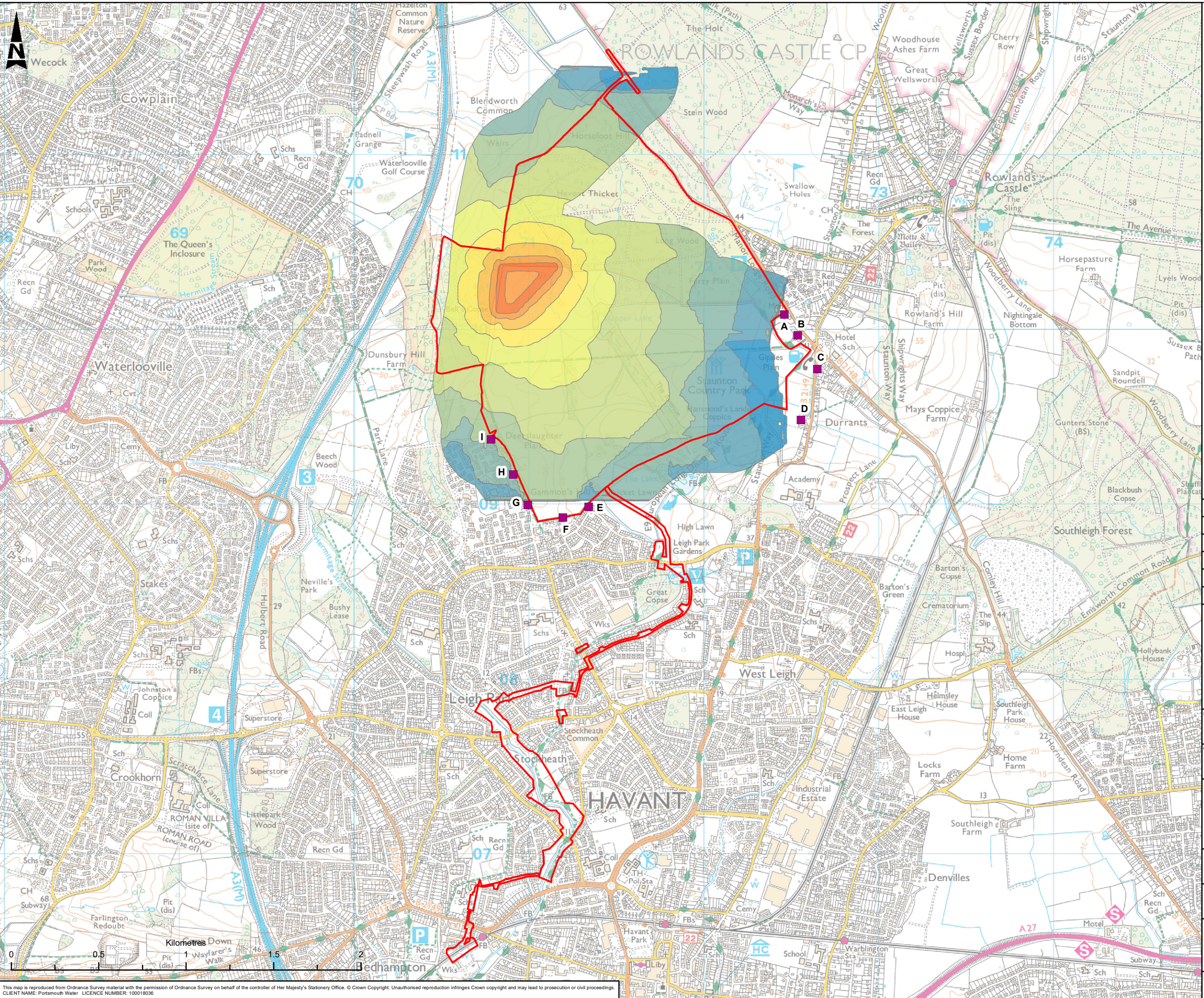
FIGURE 12.13
RESERVOIR CONSTRUCTION NOISE
CONTOUR - 2026 Q3

Portsmouth Water Drawing Number

Rev

C01

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
CLIENT NAME: Portsmouth Water LICENCE NUMBER: 100018036



Red Line Boundary

Sample Receptor Location

Free-field calculated dB LAeq,T construction noise level for 2028 Q2 to 2029 Q1 at 4m above ground

25 - 30

30 - 35

35 - 40

40 - 45

45 - 50

50 - 55

55 - 60

60 - 65

65 - 70

70 - 75

75 - 80

80 - 85

C01	FD	DB	AL	LB	PUBLISHED	17/08/2020
P01	KP	DB	AL	WI	FOR REVIEW / COMMENT	10/07/2020
Rev	Dn By	Old By	Rev By	Auth By	Description	Date

ATKINS

Member of the SNC-Lavalin Group

Aztec West

500 Park Avenue

Almondsbury

Bristol

BS32 4RZ

Tel: +44 (0) 1454 6620000

Fax: +44 (0) 1454 663333

www.atkinsglobal.com

Copyright © Atkins Limited (2020)

Drawing Suitability	Status
PUBLISHED	A1

Contractors Drawing Number:
HTR - ATK - ZZ - ZZ - GS - Z - 0126
Project | Originator | Volume | Location | Type | Role | Number

Telephone: Havant (023) 9249 9888
Fax: Havant (023) 9245 3632
Website: www.portsmouthwater.co.uk
Registered Office: PO Box 8 West Street
Havant Hampshire PO9 1LG
REGISTERED IN ENGLAND No. 2536455

Project Ref. No	Sheet	Scale	Sheet Size
5169117	1 of 1	1:20,000	A3

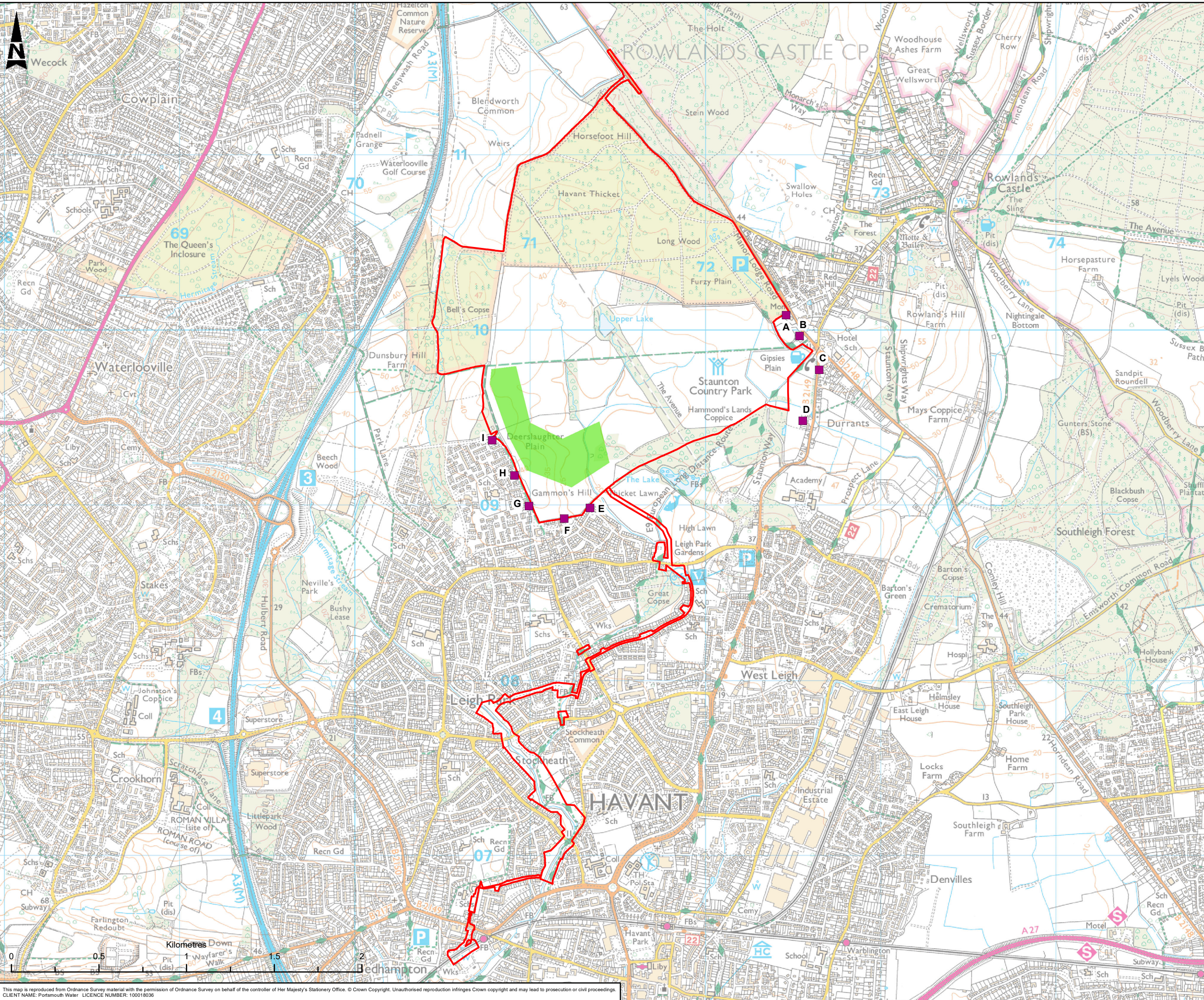
Project Title
HAVANT THICKET RESERVOIR

Drawing Title
FIGURE 12.14
RESERVOIR CONSTRUCTION NOISE
CONTOUR - 2028 Q2 TO 2029 Q1

Portsmouth Water Drawing Number

Rev
C01

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
CLIENT NAME: Portsmouth Water LICENCE NUMBER: 100018036



Red Line Boundary

Areas That Night Works Should Avoid

Sample Receptor Location

C01	KP	DB	AL	LB	PUBLISHED		10/07/2020
Rev	Dn By	Old By	Rev By	Auth By	Description		Date

ATKINS
Member of the SNC-Lavalin Group

Aztec West
500 Park Avenue
Almondsbury
Bristol
BS32 4RZ

Tel: +44 (0) 1454 6620000
Fax: +44 (0) 1454 663333
www.atkinsglobal.com

Copyright © Atkins Limited (2020)

Drawing Suitability	Status
PUBLISHED	A1

Contractors Drawing Number:
HTR - ATK - ZZ - ZZ - GS - Z - 0127
Project | Originator | Volume | Location | Type | Role | Number

Telephone: Havant (023) 9249 9888
Fax: Havant (023) 9245 3632
Website: www.portsmouthwater.co.uk
Registered Office: PO Box 8 West Street
Havant Hampshire PO9 1LG
REGISTERED IN ENGLAND No. 2536455

Project Ref. No	Sheet	Scale	Sheet Size
5169117	1 of 1	1:20,000	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
**FIGURE 12.15
AREAS THAT NIGHT WORKS
SHOULD AVOID**

Portsmouth Water Drawing Number

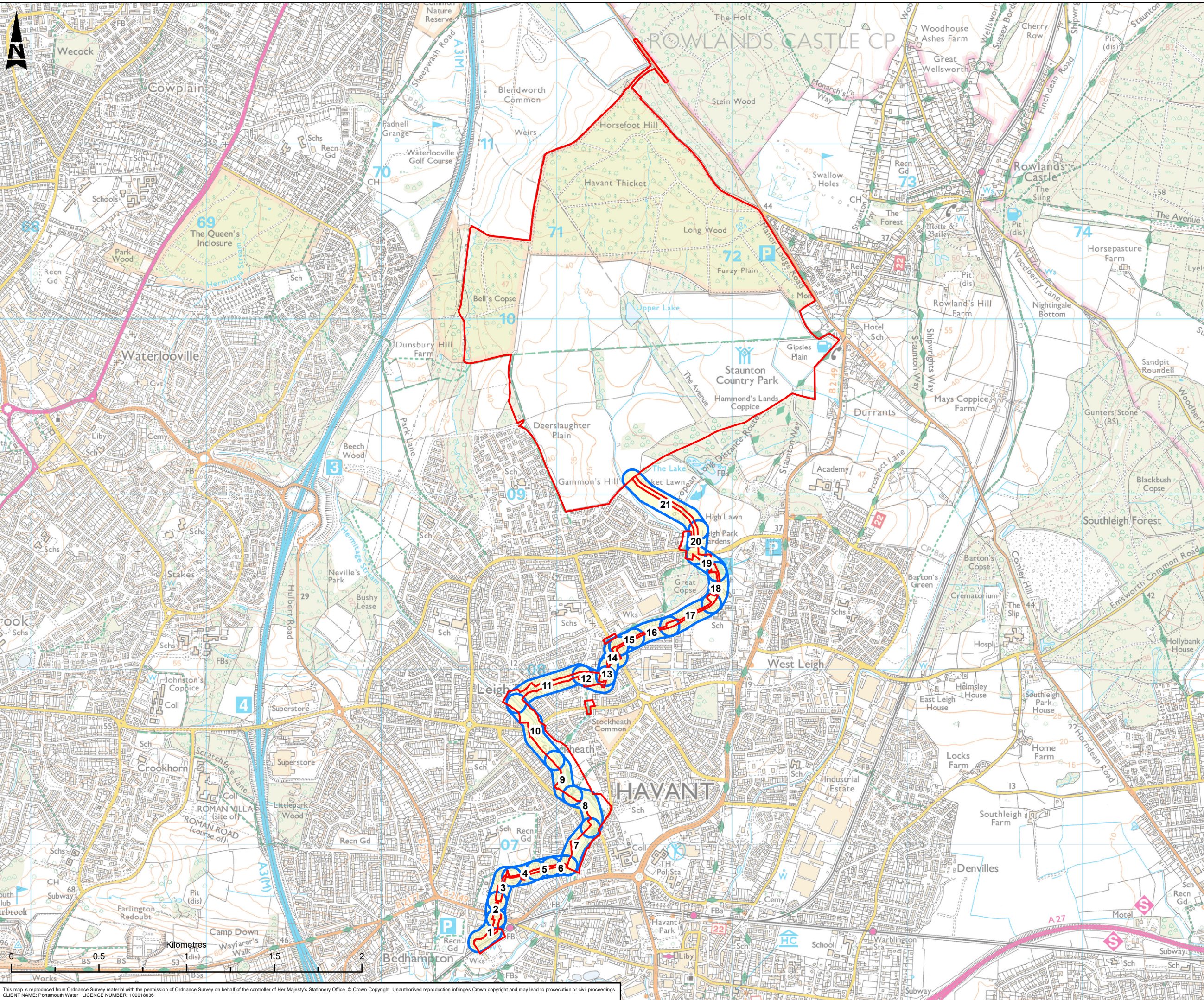
Rev
C01



Red Line Boundary

Maximum Area of Potentially Significant Day
Time Noise Effects From Trenchless Pipeline
Construction

C01	KP	DB	AL	LB	PUBLISHED	10/07/2020
Rev.	Dwn By	Ckd By	Rev By	Auth By	Description	Date
ATKINS Member of the SNC-Lavalin Group Aztec West 500 Park Avenue Almondsbury Bristol BS32 4RZ Tel: +44 (0) 1454 6620000 Fax: +44 (0) 1454 663333 www.atkinsglobal.com Copyright © Atkins Limited (2020)						
Drawing Suitability					Status	
PUBLISHED					A1	
Contractors Drawing Number:						
HTR - ATK - ZZ - ZZ - GS - Z - 0128						
Project Originator Volume Location Type Role Number						
Telephone: Havant (023) 9249 9888 Fax: Havant (023) 9245 3632 Website: www.portsmouthwater.co.uk Registered Office: PO Box 8 West Street Havant Hampshire PO9 1LG REGISTERED IN ENGLAND No. 2536455						
Project Ref. No		Sheet		Scale		Sheet Size
5169117		1 of 1		1:5,000		A3
Project Title						
HAVANT THICKET RESERVOIR						
Drawing Title						
FIGURE 12.16 TRENCHLESS PIPELINE CONSTRUCTION - POTENTIAL DAYTIME SIGNIFICANT NOISE EFFECTS						
Portsmouth Water Drawing Number					Rev	
					C01	



Red Line Boundary

Maximum area of potentially significant daytime noise effects from open trench pipeline construction

C01	KP	DB	AL	LB	PUBLISHED	17/09/2020
Rev.	Dm By	Old By	Rev By	Auth By	Description	Date

ATKINS
Member of the SNC-Lavalin Group

Aztec West
500 Park Avenue
Almondsbury
Bristol
BS32 4RZ

Tel: +44 (0) 1454 662000
Fax: +44 (0) 1454 663333
www.atkinsglobal.com

Copyright © Atkins Limited (2020)

Drawing Suitability	Status
PUBLISHED	A1

Contractors Drawing Number: HTR - ATK - ZZ - ZZ - GS - Z - 0129						
Project	Originator	Volume	Location	Type	Role	Number

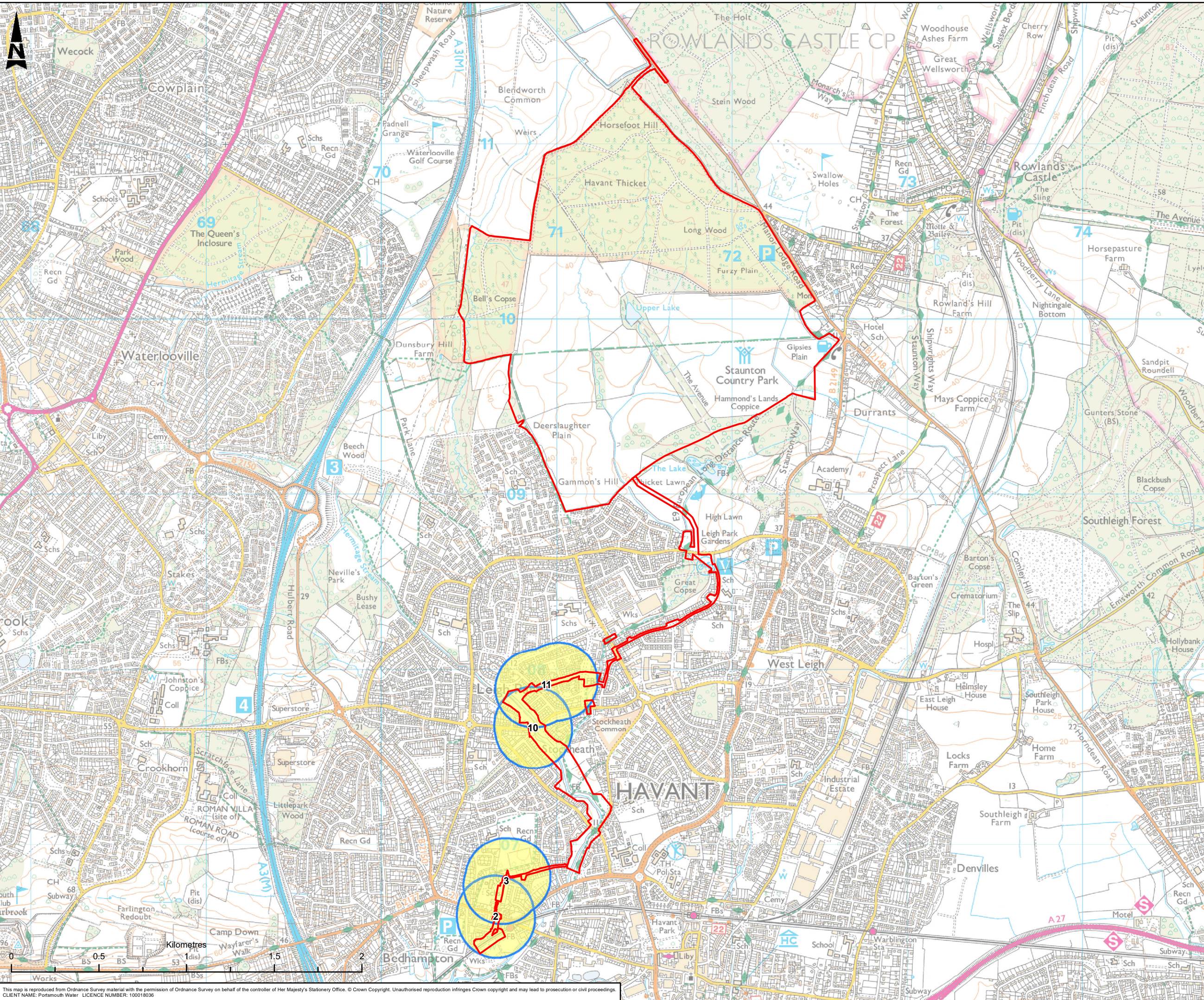
Telephone: Havant (023) 9249 9888
Fax: Havant (023) 9245 3632
Website: www.portsmouthwater.co.uk
Registered Office: PO Box 8 West Street
Havant Hampshire PO9 1LG
REGISTERED IN ENGLAND No. 2536455

Project Ref. No	Sheet	Scale	Sheet Size
5169117	1 of 1	1:20,000	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
**FIGURE 12.17
OPEN TRENCH PIPELINE CONSTRUCTION -
POTENTIAL DAYTIME SIGNIFICANT
NOISE EFFECTS MAP**

Portsmouth Water Drawing Number	Rev
	C01



- Red Line Boundary
- Maximum area of potentially significant night time noise effects from open trench pipeline construction

C01	KP	DB	AL	LB	PUBLISHED	17/09/2020
Rev.	Dn By	Old By	Rev By	Auth By	Description	Date

ATKINS
Member of the SNC-Lavalin Group

Aztec West
500 Park Avenue
Almondsbury
Bristol
BS32 4RZ

Tel: +44 (0) 1454 662000
Fax: +44 (0) 1454 663333
www.atkinsglobal.com

Copyright © Atkins Limited (2020)

Drawing Suitability	Status
PUBLISHED	A1

Contractors Drawing Number: HTR - ATK - ZZ - ZZ - GS - Z - 0130						
Project	Originator	Volume	Location	Type	Role	Number

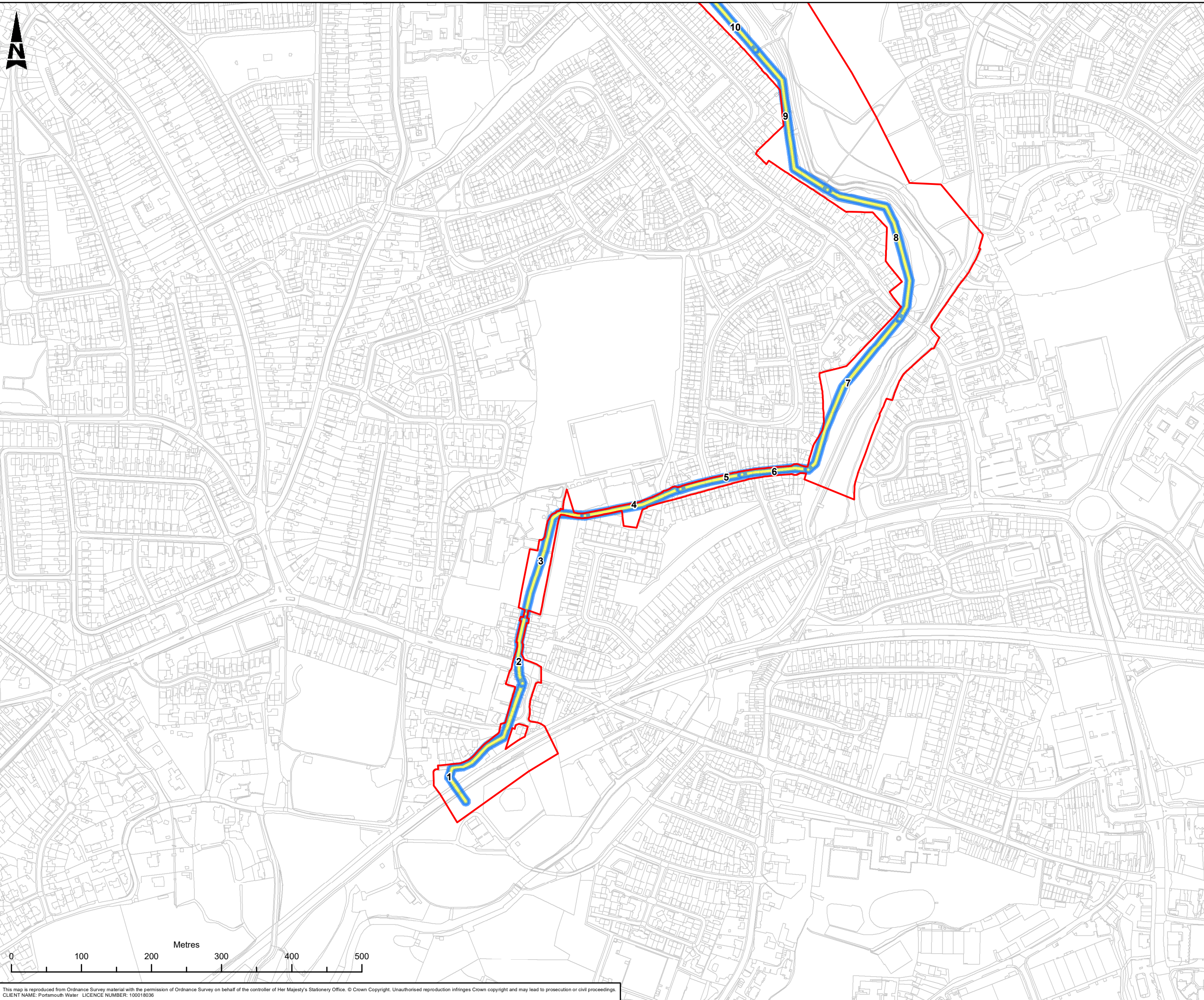
Telephone: Havant (023) 9249 9888
Fax: Havant (023) 9245 3632
Website: www.portsmouthwater.co.uk
Registered Office: PO Box 8 West Street
Havant Hampshire PO9 1LG
REGISTERED IN ENGLAND No. 2536455

Project Ref. No	Sheet	Scale	Sheet Size
5169117	1 of 1	1:20,000	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
FIGURE 12.18 OPEN TRENCH PIPELINE CONSTRUCTION - POTENTIAL NIGHT-TIME SIGNIFICANT NOISE EFFECTS MAP

Portsmouth Water Drawing Number	Rev
	C01



Red Line Boundary

Maximum area of potentially significant vibration effects on buildings from open trench pipeline construction

C01	KP	DB	AL	LB	PUBLISHED	10/07/2020
Rev.	Dwn By	Ckd By	Rev By	Auth By	Description	Date

ATKINS

Member of the SNC-Lavalin Group

Aztec West
500 Park Avenue
Almondsbury
Bristol
BS32 4RZ

Tel: +44 (0) 1454 6620000
Fax: +44 (0) 1454 663333
www.atkinsglobal.com

Copyright © Atkins Limited (2020)

Drawing Suitability			Status
PUBLISHED			A1

Contractors Drawing Number:
HTR - ATK - ZZ - ZZ - GS - Z - 0031

Project | Originator | Volume | Location | Type | Role | Number

Telephone: Havant (023) 9249 9888
Fax: Havant (023) 9245 3632
Website: www.portsmouthwater.co.uk
Registered Office: PO Box 8 West Street
Havant Hampshire PO9 1LG
REGISTERED IN ENGLAND No. 2536455

Project Ref. No	Sheet	Scale	Sheet Size
5169117	1 of 3	1:5,000	A3

Project Title

HAVANT THICKET RESERVOIR

Drawing Title

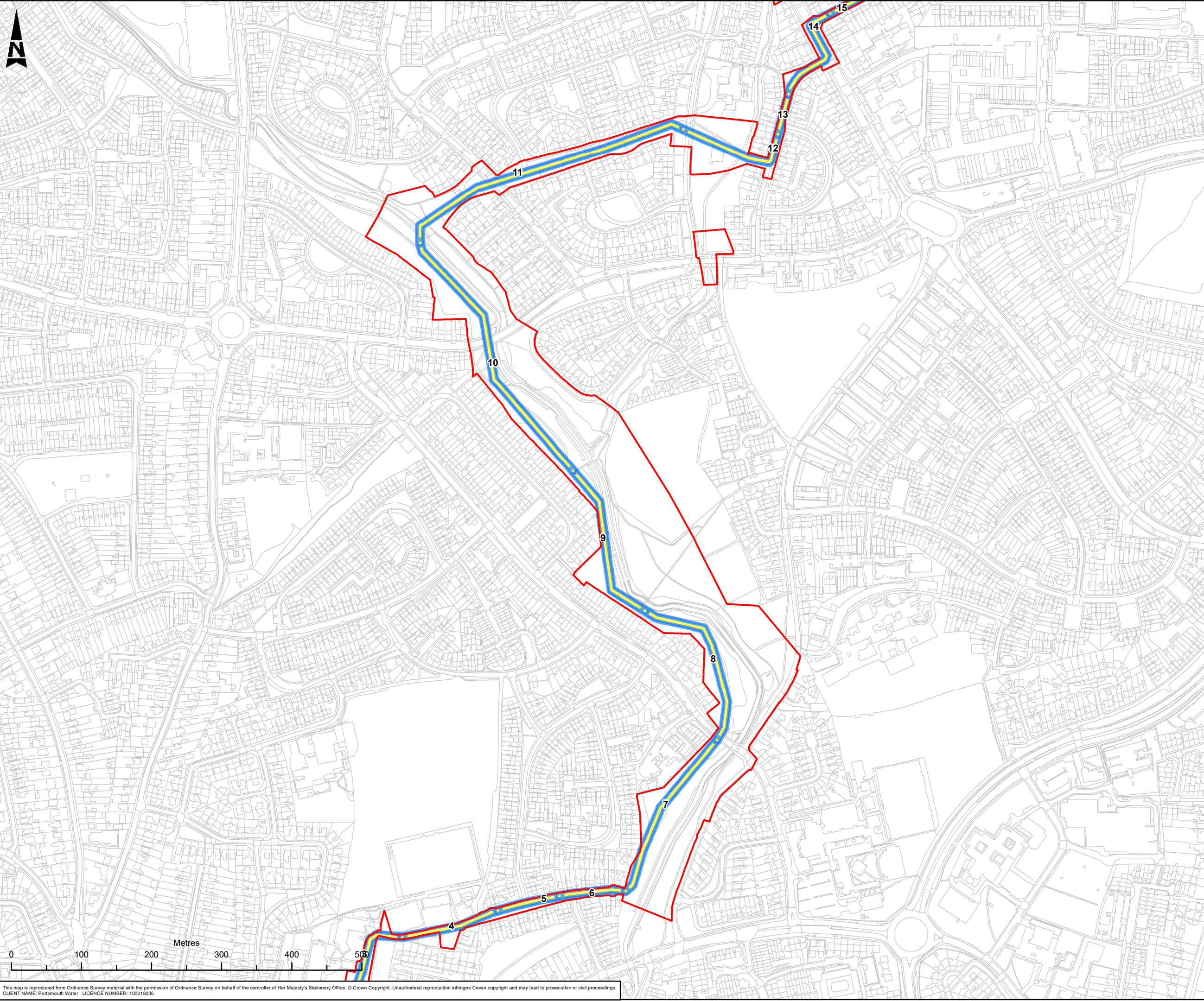
**FIGURE 12.19
OPEN TRENCH PIPELINE CONSTRUCTION -
POTENTIAL SIGNIFICANT VIBRATION
EFFECTS ON BUILDINGS**

Portsmouth Water Drawing Number

Rev

C01

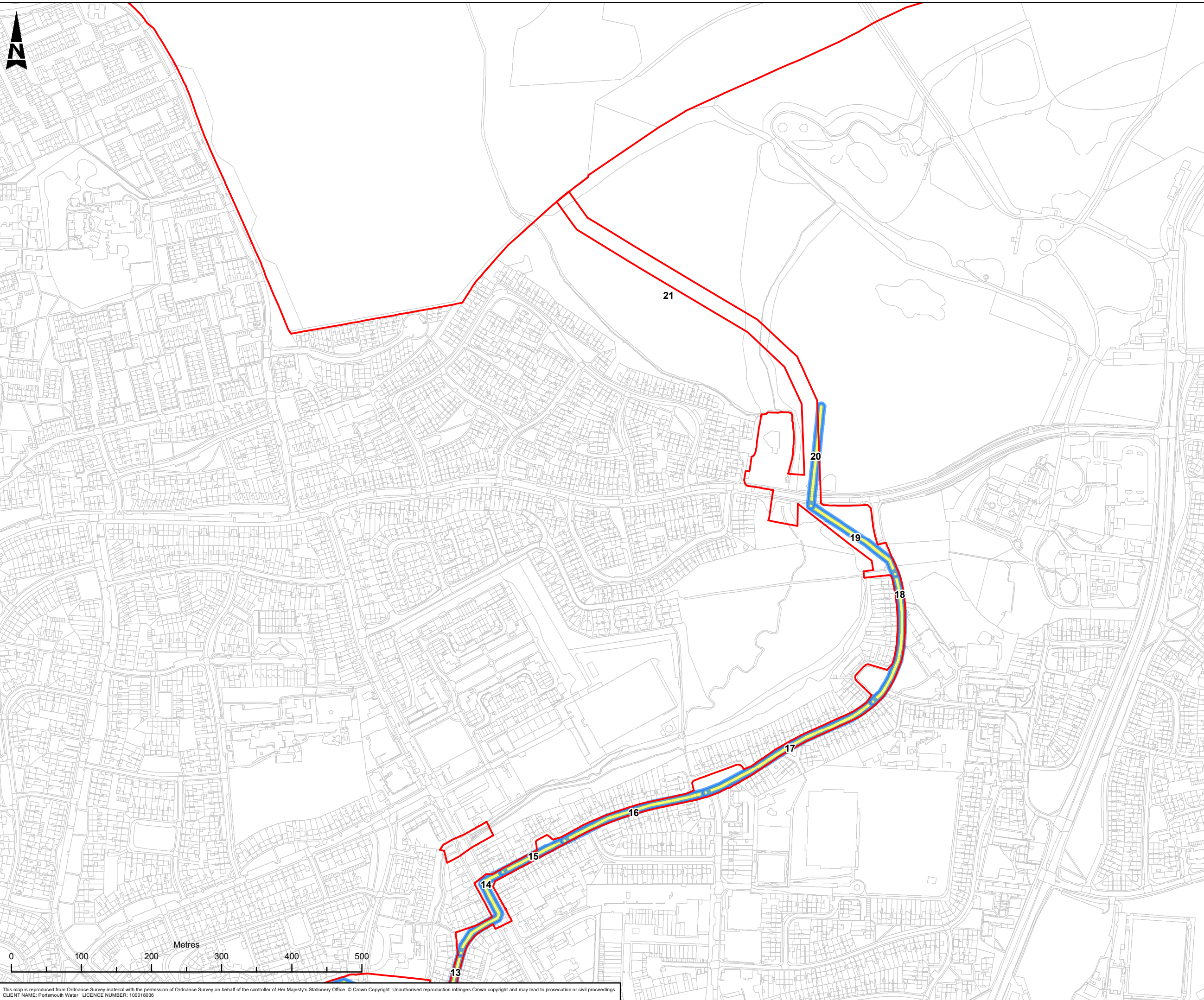
This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the controller of Her Majesty's Stationery Office. © Crown Copyright. Unauthorised reproduction infringes Crown copyright and may lead to prosecution or civil proceedings.
CLIENT NAME: Portsmouth Water LICENCE NUMBER: 100018036



Red Line Boundary

Maximum area of potentially significant vibration effects on buildings from open trench pipeline construction

C01	KP	DB	AL	LB	PUBLISHED	17/09/2020
Rev.	Dwn By	Ckd By	Rev By	Auth By	Description	Date
ATKINS Member of the SNC-Lavalin Group Aztec West 500 Park Avenue Almondsbury Bristol BS32 4RZ Tel: +44 (0) 1454 6620000 Fax: +44 (0) 1454 663333 www.atkinsglobal.com Copyright © Atkins Limited (2020)						
Drawing Suitability					Status	
PUBLISHED					A1	
Contractors Drawing Number:						
HTR - ATK - ZZ - ZZ - GS - Z - 0032						
Project Originator Volume Location Type Role Number						
Telephone: Havant (023) 9249 9888						
Fax: Havant (023) 9245 3632						
Website: www.portsmouthwater.co.uk						
Registered Office: PO Box 8 West Street						
Havant Hampshire PO9 1LG						
REGISTERED IN ENGLAND No. 2536455						
Project Ref. No		Sheet		Scale		Sheet Size
5169117		2 of 3		1:5,000		A3
Project Title						
HAVANT THICKET RESERVOIR						
Drawing Title						
FIGURE 12.19 OPEN TRENCH PIPELINE CONSTRUCTION - POTENTIAL SIGNIFICANT VIBRATION EFFECTS ON BUILDINGS						
Portsmouth Water Drawing Number					Rev	
					C01	



Red Line Boundary

Maximum area of potentially significant vibration effects on buildings from open trench pipeline construction

C01	KP	DB	AL	LB	PUBLISHED	17/09/2020
Rev.	Dwn By	Ckd By	Rev By	Auth By	Description	Date

ATKINS
Member of the SNC-Lavalin Group

Aztec West
500 Park Avenue
Almondsbury
Bristol
BS32 4RZ

Tel: +44 (0) 1454 6620000
Fax: +44 (0) 1454 663333
www.atkinsglobal.com

Copyright © Atkins Limited (2020)

Drawing Suitability			Status
PUBLISHED			A1

Contractors Drawing Number:
HTR - ATK - ZZ - ZZ - GS - Z - 0033
Project | Originator | Volume | Location | Type | Role | Number

Telephone: Havant (023) 9249 9888
Fax: Havant (023) 9245 3632
Website: www.portsmouthwater.co.uk
Registered Office: PO Box 8 West Street
Havant Hampshire PO9 1LG
REGISTERED IN ENGLAND No. 2536455

Project Ref. No

Sheet

Scale

Sheet Size

5169117

3 of 3

1:5,000

A3

Project Title

HAVANT THICKET RESERVOIR

Drawing Title

**FIGURE 12.19
OPEN TRENCH PIPELINE CONSTRUCTION -
POTENTIAL SIGNIFICANT VIBRATION
EFFECTS ON BUILDINGS**

Portsmouth Water Drawing Number

Rev

C01



Atkins Limited
The Hub
500 Park Avenue
Aztec West
Bristol
BS32 4RZ