Havant Thicket Reservoir Project

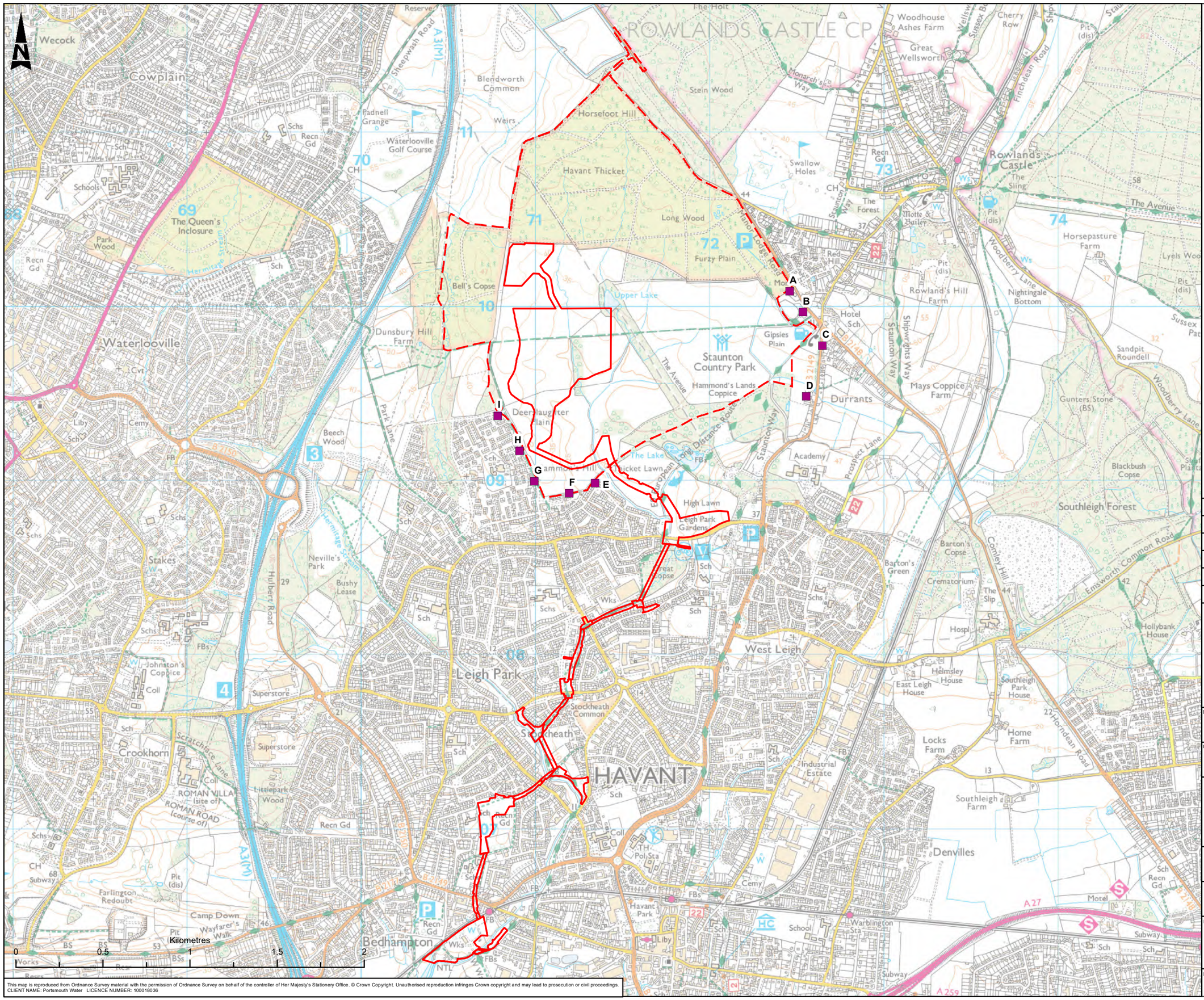
Environmental Statement Volume 3: Revised Chapter 12 Noise and Vibration Figures

Portsmouth Water Ltd.

May 2024

Schedule of Drawings included in this application:

Drawing title	Drawing number
Figure 12.1 Sample Receptor Location Map for Reservoir Site	HTR-ATK-ZZ-ZZ-GS-Z-0115
Figure 12.2 Baseline Daytime Noise Contours and Measurement Locations (rev)	HTR-ATK-ZZ-ZZ-GS-Z-0003
Figure 12.3 Baseline Night Time Noise Contours and Measurement Locations (rev)	HTR-ATK-ZZ-ZZ-GS-Z-0004
Figure 12.4 Reservoir Construction Noise Contours 2021 Q3	HTR-ATK-ZZ-ZZ-GS-Z-0116
Figure 12.5 Reservoir Construction Noise Contours 2021 Q4	HTR-ATK-ZZ-ZZ-GS-Z-0117
Figure 12.6 Reservoir Construction Noise Contours 2022 Q1	HTR-ATK-ZZ-ZZ-GS-Z-0118f
Figure 12.7 Reservoir Construction Noise Contours 2022 Q2	HTR-ATK-ZZ-ZZ-GS-Z-0119
Figure 12.8 Reservoir Construction Noise Contours 2022 Q3	HTR-ATK-ZZ-ZZ-GS-Z-0120
Figure 12.9 Reservoir Construction Noise Contours 2022 Q4	HTR-ATK-ZZ-ZZ-GS-Z-0121
Figure 12.10 Reservoir Construction Noise Contours 2023 Q1	HTR-ATK-ZZ-ZZ-GS-Z-0122
Figure 12.11 Reservoir Construction Noise Contours 2023 Q2	HTR-ATK-ZZ-ZZ-GS-Z-0123
Figure 12.12 Reservoir Construction Noise Contours 2023 Q2 to 2026 Q2	HTR-ATK-ZZ-ZZ-GS-Z-0124
Figure 12.13 Reservoir Construction Noise Contours 2026 Q3	HTR-ATK-ZZ-ZZ-GS-Z-0125
Figure 12.14 Reservoir Construction Noise Contours 2028 Q2 to 2029 Q1	HTR-ATK-ZZ-ZZ-GS-Z-0126
Figure 12.15 Areas that Night Works Should Avoid	HTR-ATK-ZZ-ZZ-GS-Z-0127
Figure 12.16 Trenchless Pipeline Construction - Potential Daytime Significant Noise Effects (rev)	HTR-ATK-ZZ-ZZ-GS-Z-0128
Figure 12.17 Open Trench Pipeline Construction - Potential Daytime Significant Noise Effects (rev)	HTR-ATK-ZZ-ZZ-GS-Z-0129
Figure 12.18 Open Trench Pipeline Construction - Potential Night Time Significant Noise Effects (rev)	HTR-ATK-ZZ-ZZ-GS-Z-0130
Figure 12.19 Open Trench Pipeline Construction - Potential Significant Vibration Effects on Buildings Page 1 (rev)	HTR-ATK-ZZ-ZZ-GS-Z-0131
Figure 12.19 Open Trench Pipeline Construction - Potential Significant Vibration Effects on Buildings Page 2 (rev)	HTR-ATK-ZZ-ZZ-GS-Z-0132
Figure 12.19 Open Trench Pipeline Construction - Potential Significant Vibration Effects on Buildings Page 3 (rev)	HTR-ATK-ZZ-ZZ-GS-Z-0133



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Project Title: HAVANT THICKET RESERVOIR

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SAMPLE RECEPTOR LOCATION MAP
FOR RESERVOIR SITE

Portsmouth Water Drawing Number

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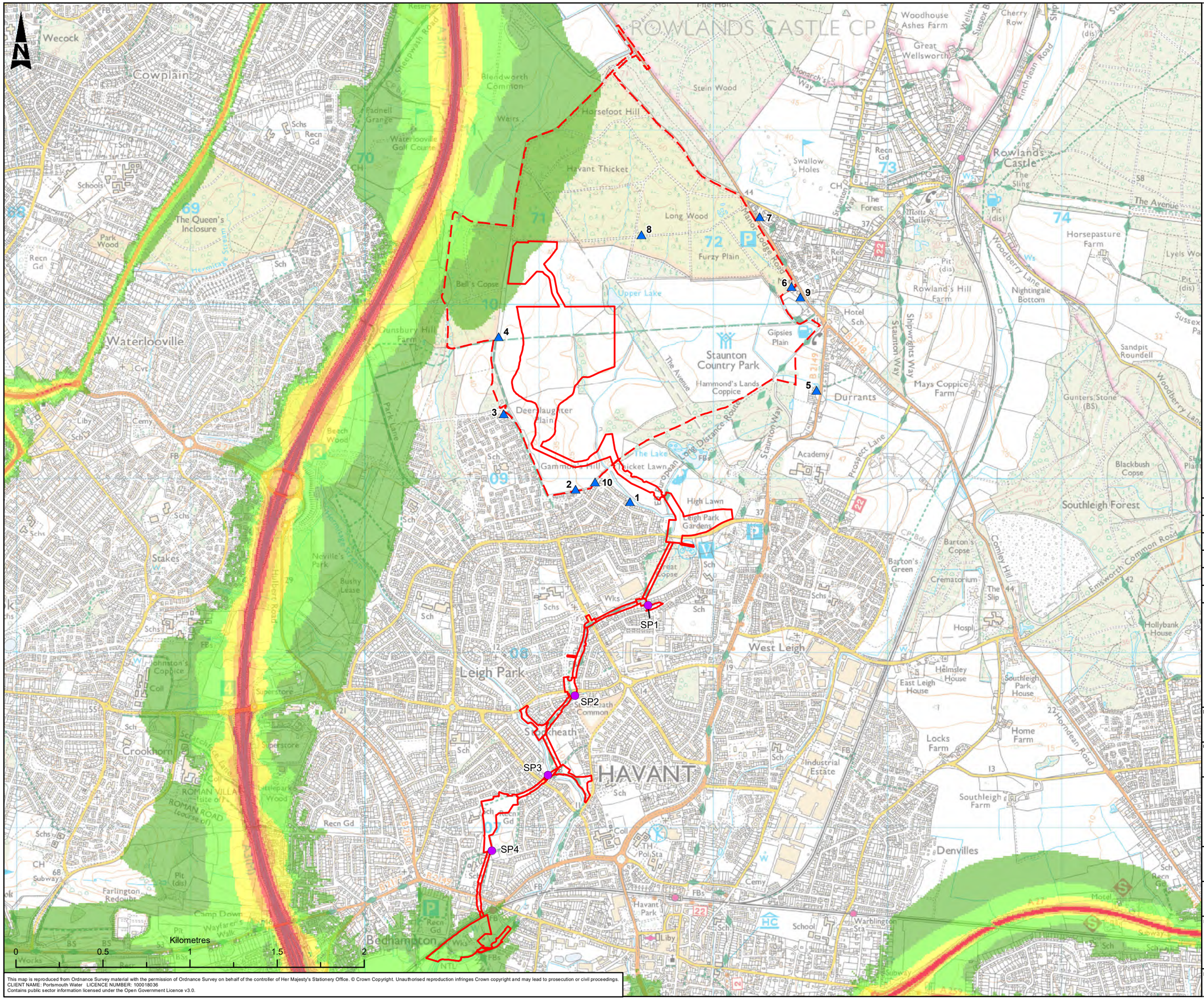

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Pipeline Red Line Boundary

Reservoir Red Line Boundary

Noise Monitoring Locations (Arup)

Noise Monitoring Locations (Atkins)

DEFRA Strategic Noise Maps (Major Road) 2017 – Daytime free-field L_{Aeq} (07:00 – 23:00)

- 55.0-59.9 dB
- 60.0-64.9 dB
- 65.0-69.9 dB
- 70.0-74.9 dB
- >=75.0 dB

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Drawing Title: FIGURE 12.2 BASELINE DAYTIME NOISE CONTOURS AND MEASUREMENT LOCATIONS

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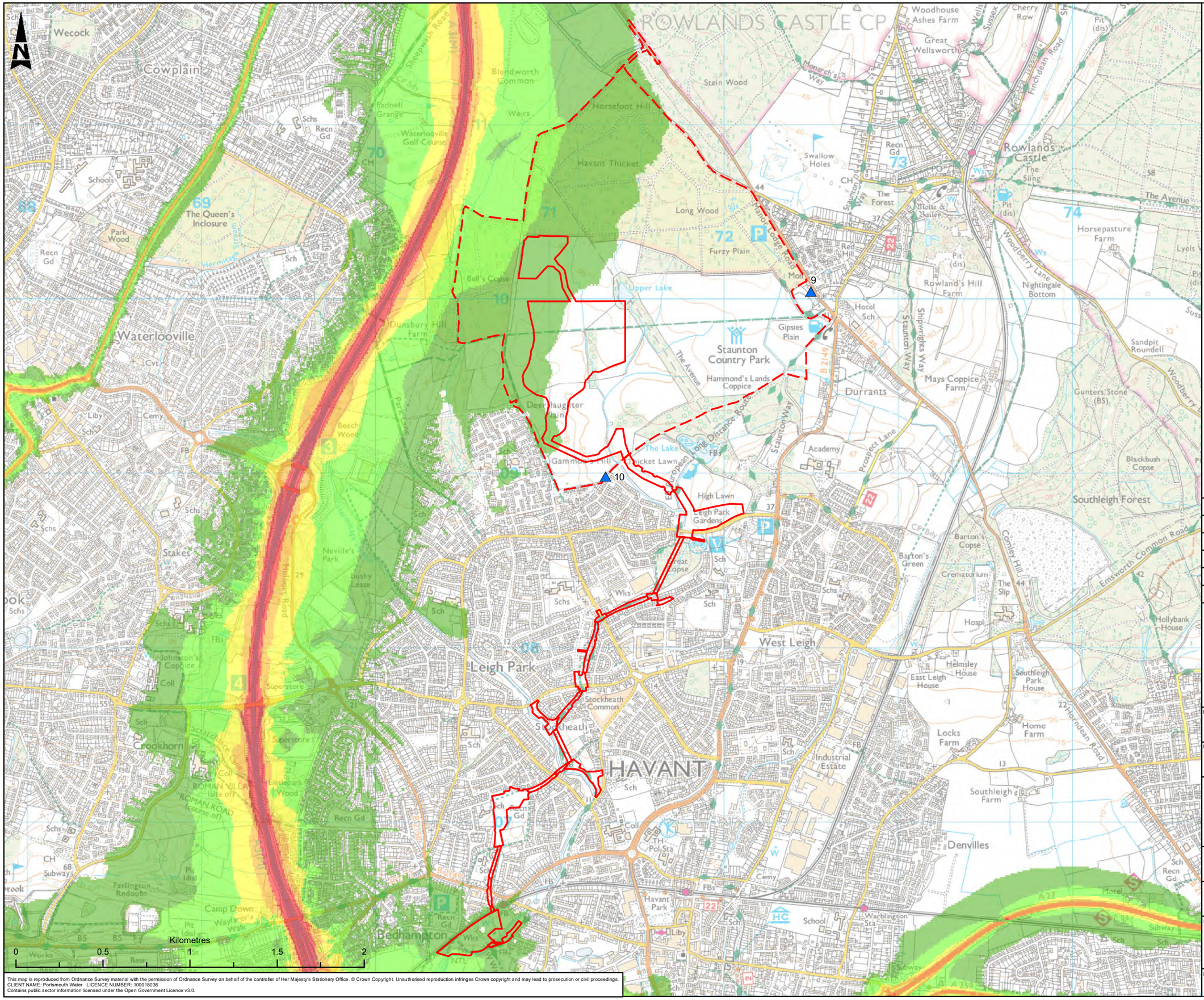

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Pipeline Red Line Boundary

Reservoir Red Line Boundary

Noise Monitoring Locations (Arup)

DEFRA Strategic Noise Maps (Major Road) 2017 – Night time free-field L_{night} (23:00 – 07:00)

- 50.0-54.9 dB
- 55.0-59.9 dB
- 60.0-64.9 dB
- 65.0-69.9 dB
- >=70.0 dB

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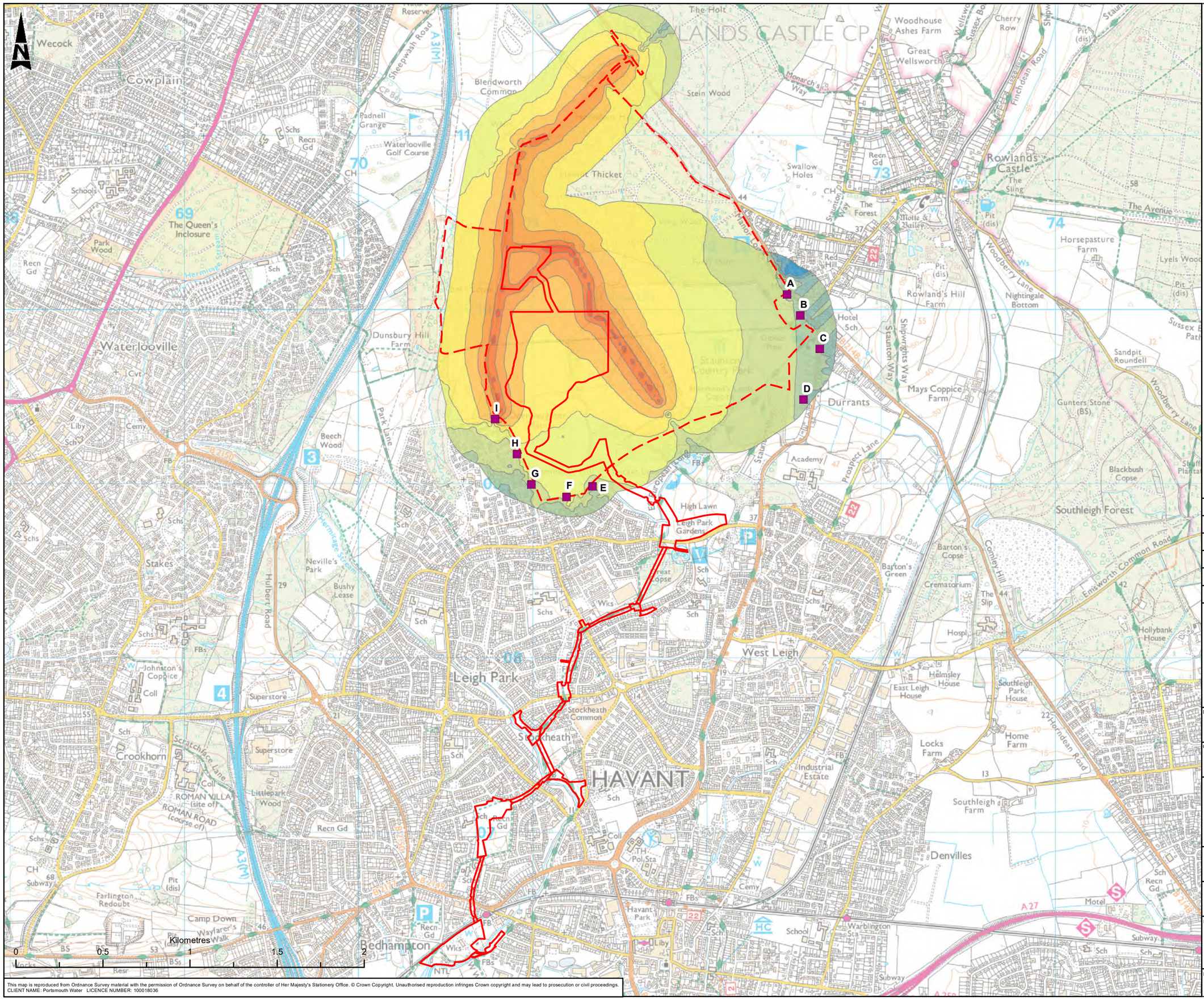

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Pipeline Red Line Boundary

Reservoir Red Line Boundary

Sample Receptor Location

Free-field calculated dB LAeq,T construction noise level for 2021 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

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FIGURE 12.4
RESERVOIR CONSTRUCTION NOISE CONTOUR - 2021 Q3

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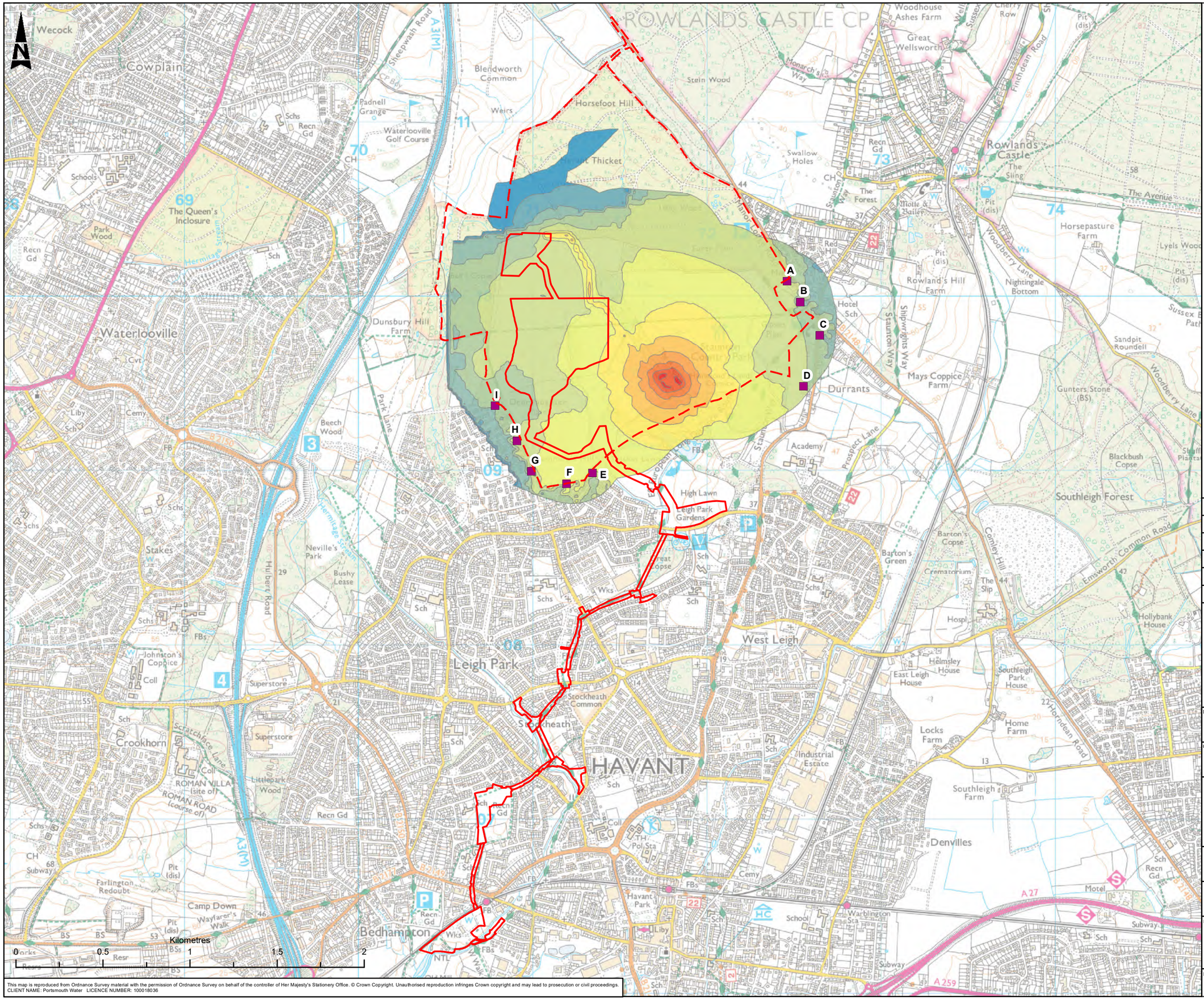

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Pipeline Red Line Boundary

Reservoir Red Line Boundary

Sample Receptor Location

Free-field calculated dB LAeq,T construction noise level for 2021 Q4 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

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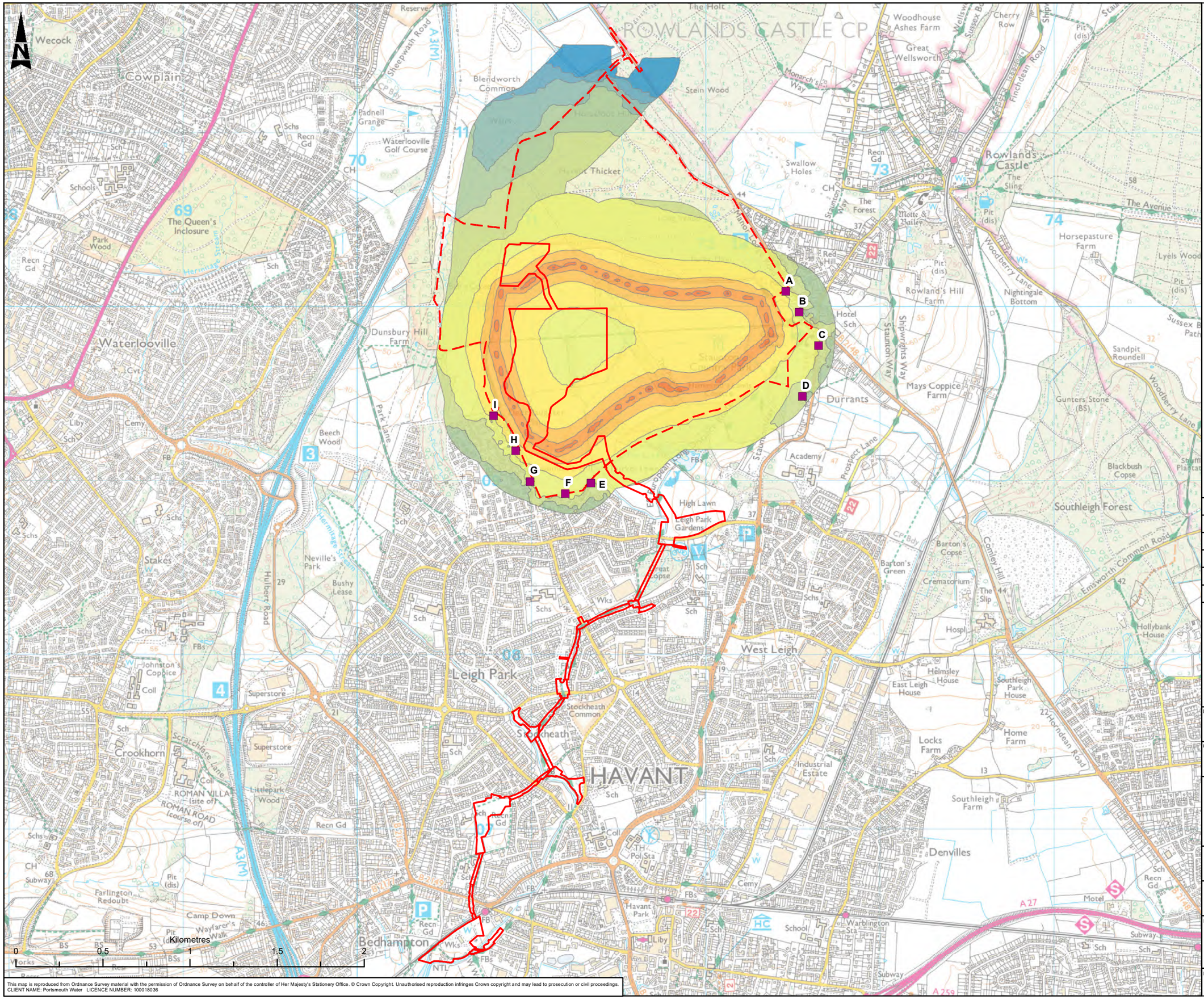

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Pipeline Red Line Boundary

Reservoir Red Line Boundary

ReceptorID

Sample Receptor Location

Free-field calculated dB LAeq,T construction noise level for 2022 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

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FIGURE 12.6
RESERVOIR CONSTRUCTION NOISE CONTOUR - 2022 Q1

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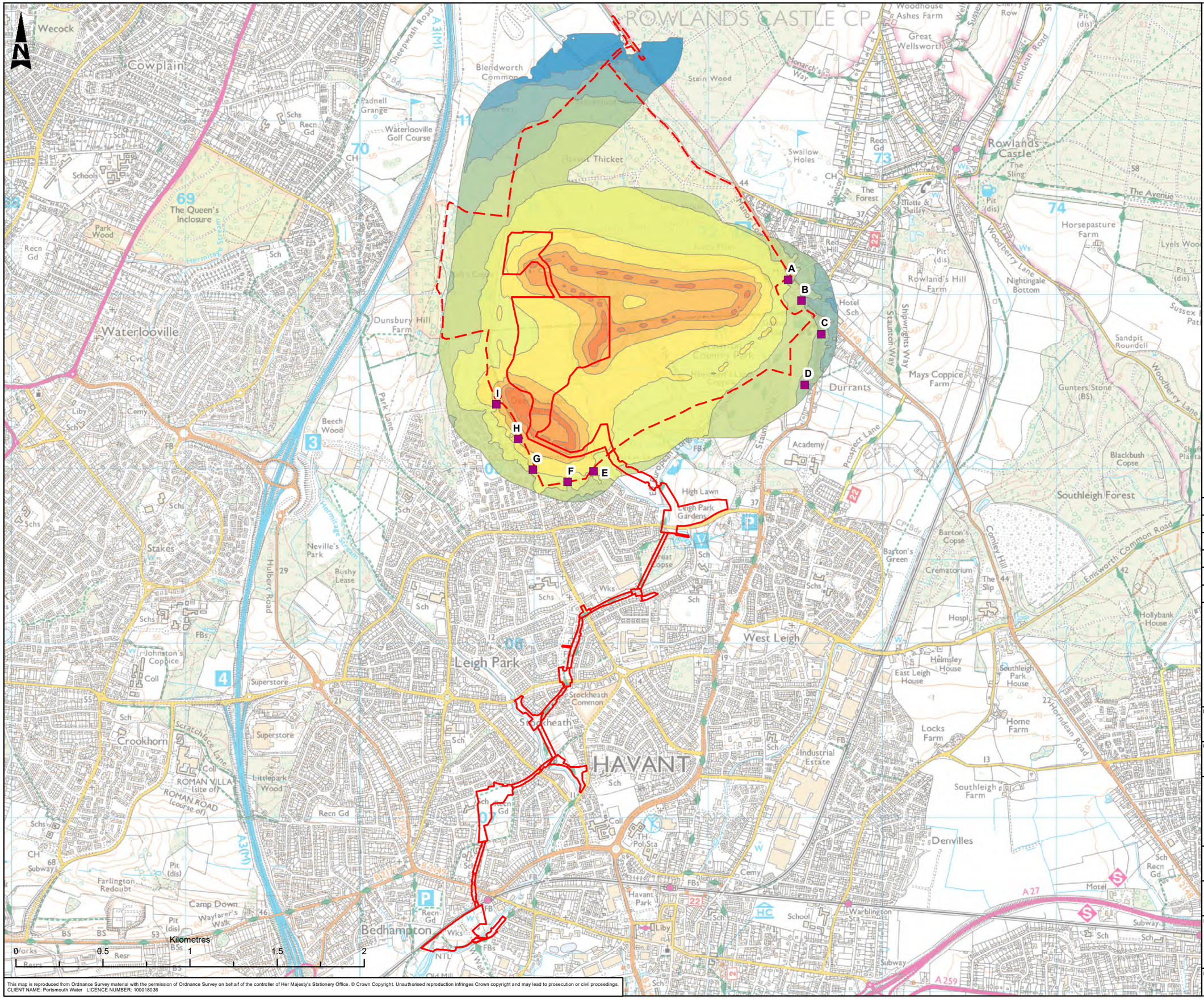

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Pipeline Red Line Boundary

Reservoir Red Line Boundary

Sample Receptor Location

Free-field calculated dB LAeq,T construction noise levels for 2022 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

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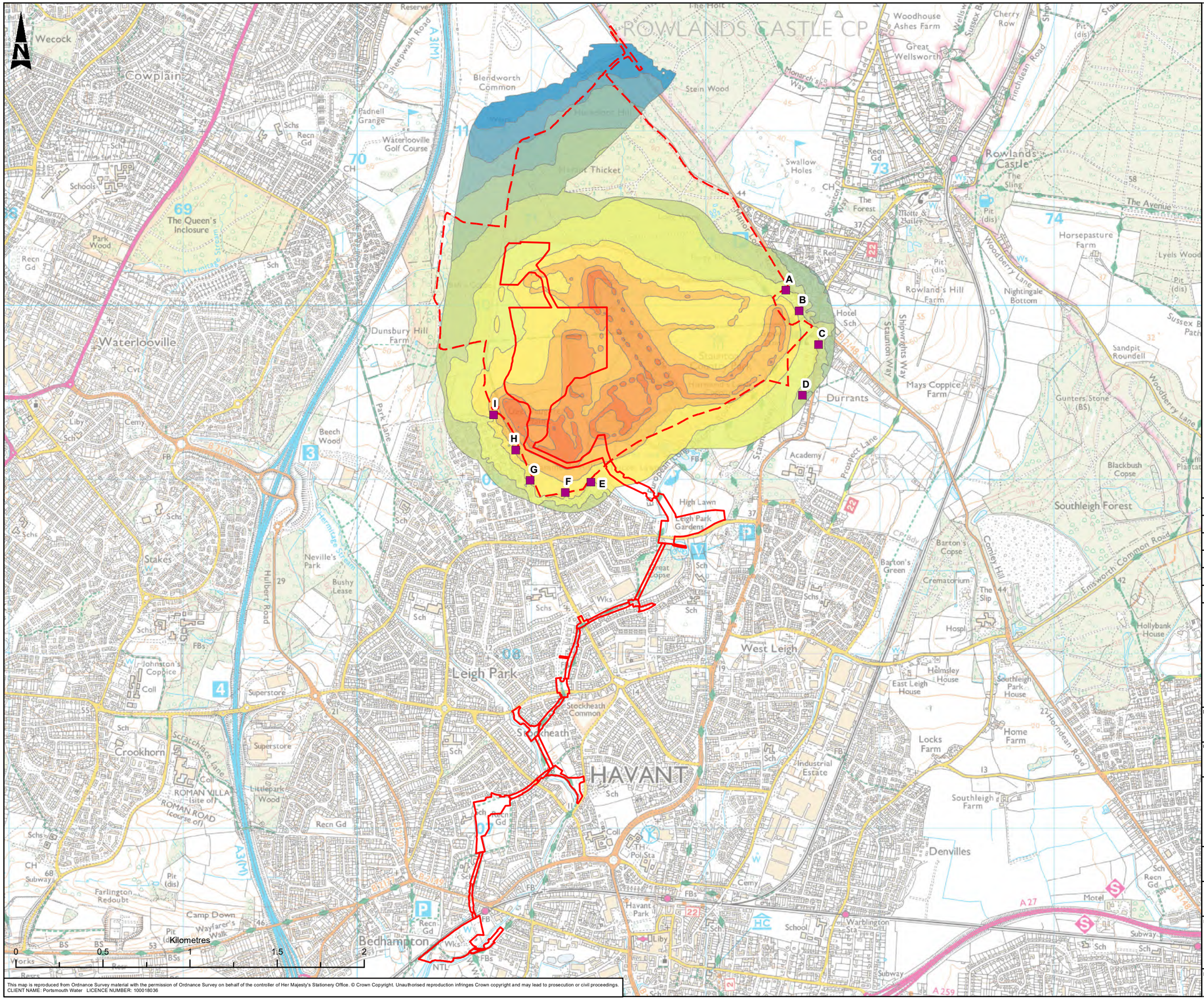

Pipeline Red Line Boundary

Reservoir Red Line Boundary

Sample Receptor Location

Free-field calculated dB LAeq,T construction noise levels for 2022 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

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FIGURE 12.8
RESERVOIR CONSTRUCTION NOISE CONTOUR - 2022 Q3

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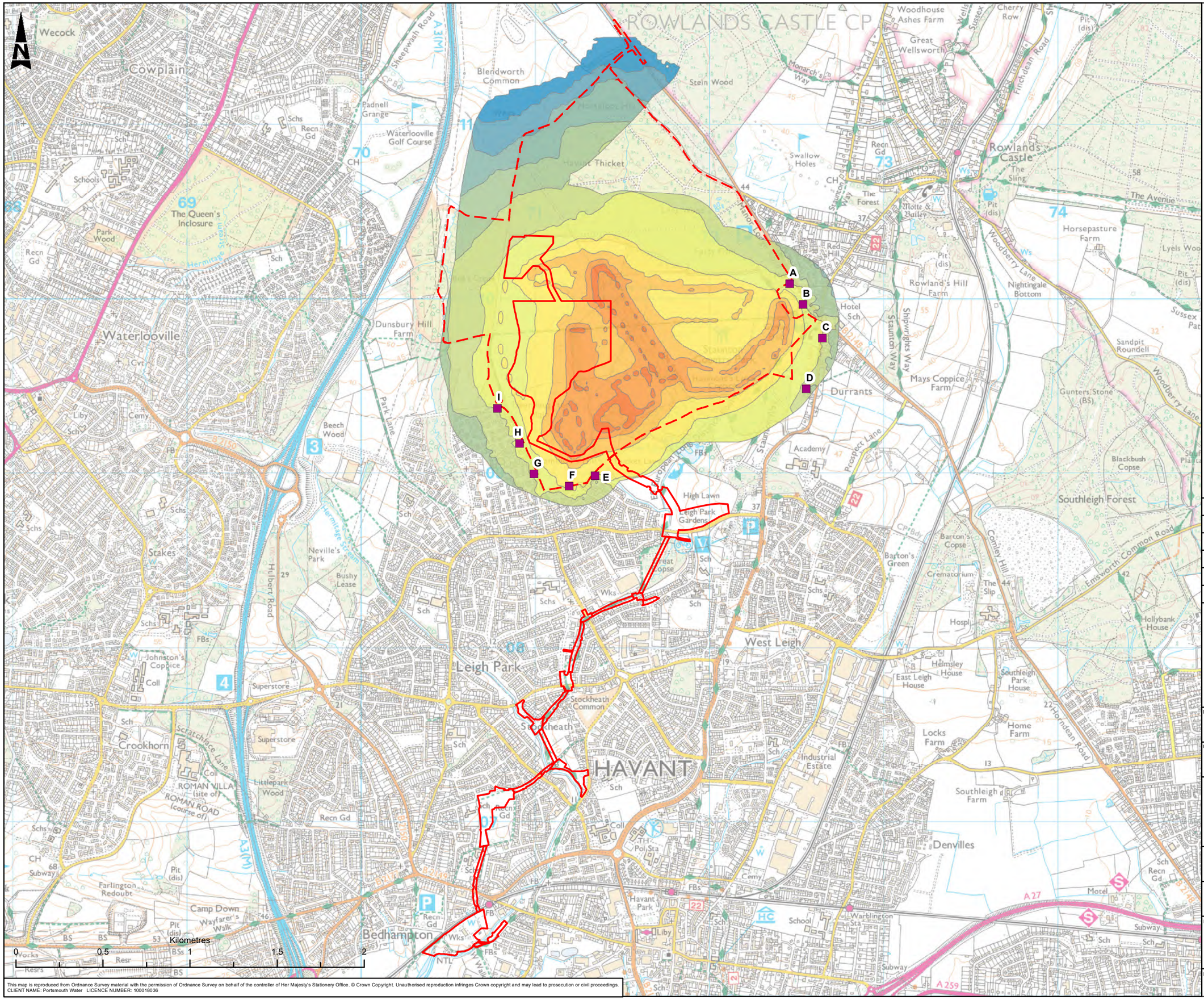

Pipeline Red Line Boundary

Reservoir Red Line Boundary

Sample Receptor Location

Free-field calculated dB LAeq,T construction noise level for 2022 Q4 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

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FIGURE 12.9
RESERVOIR CONSTRUCTION NOISE CONTOUR - 2022 Q4

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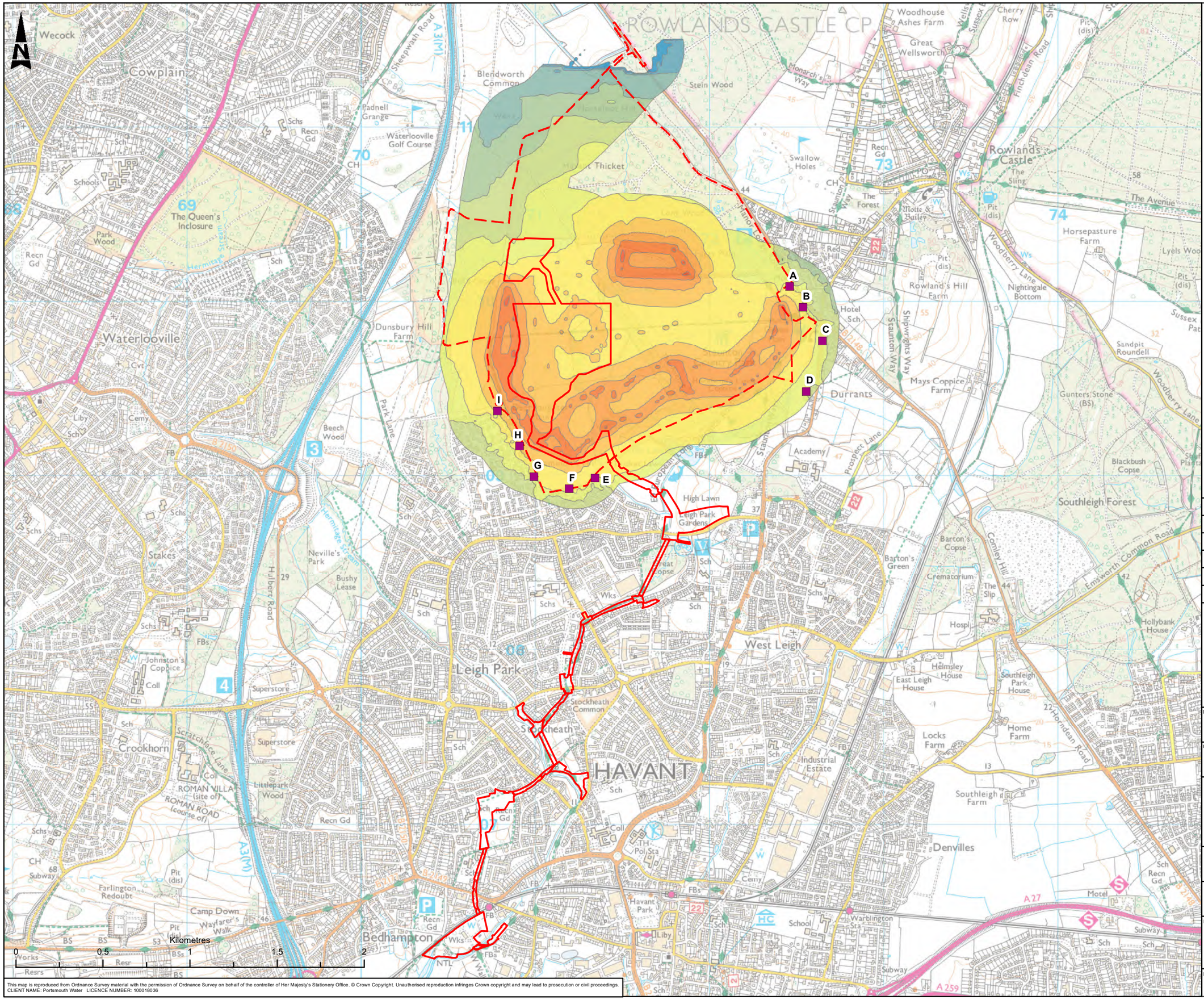

Pipeline Red Line Boundary

Reservoir Red Line Boundary

Sample Receptor Location

Free-field calculated dB LAeq,T construction noise levels for 2023 Q1 at 4m above grond

- 25 - 30
- 30 - 35
- 35 - 40
- 40 - 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- 70 - 75
- 75 - 80
- 80 - 85

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

Project Title

HAVANT THICKET RESERVOIR

Drawing Title

FIGURE 12.10
RESERVOIR CONSTRUCTION NOISE CONTOUR - 2023 Q1

Portsmouth Water Drawing Number

Rev: C03

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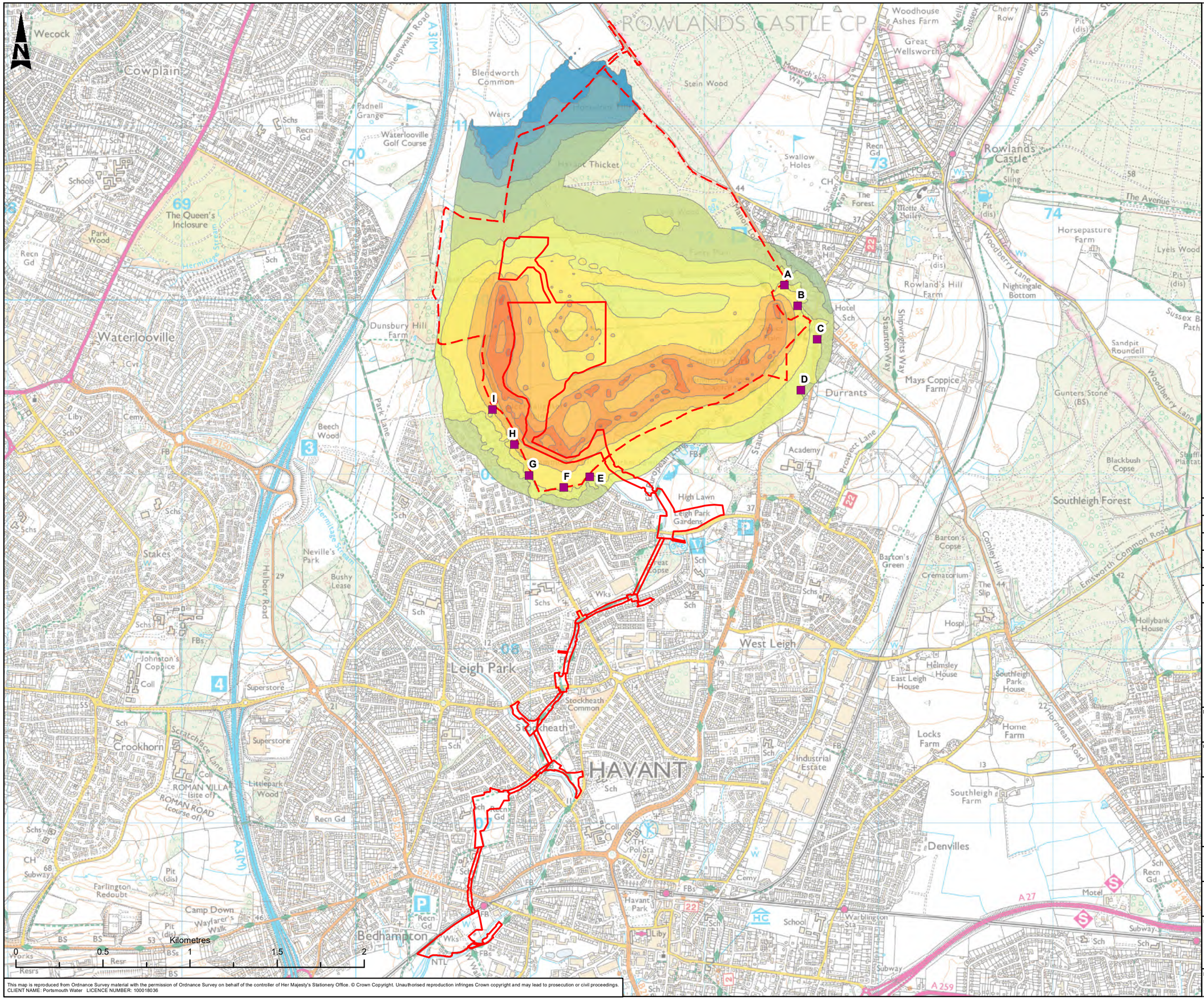

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Pipeline Red Line Boundary

Reservoir 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

Rev.	Drn By	Ckd By	Rev By	Auth By	Description	Date
C03	MMN	NW	AR	JF	PUBLISHED	04/04/2024
C02	NW	LM	AR	JF	PUBLISHED	12/06/2023
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Project Ref. No	Sheet	Scale	Sheet Size
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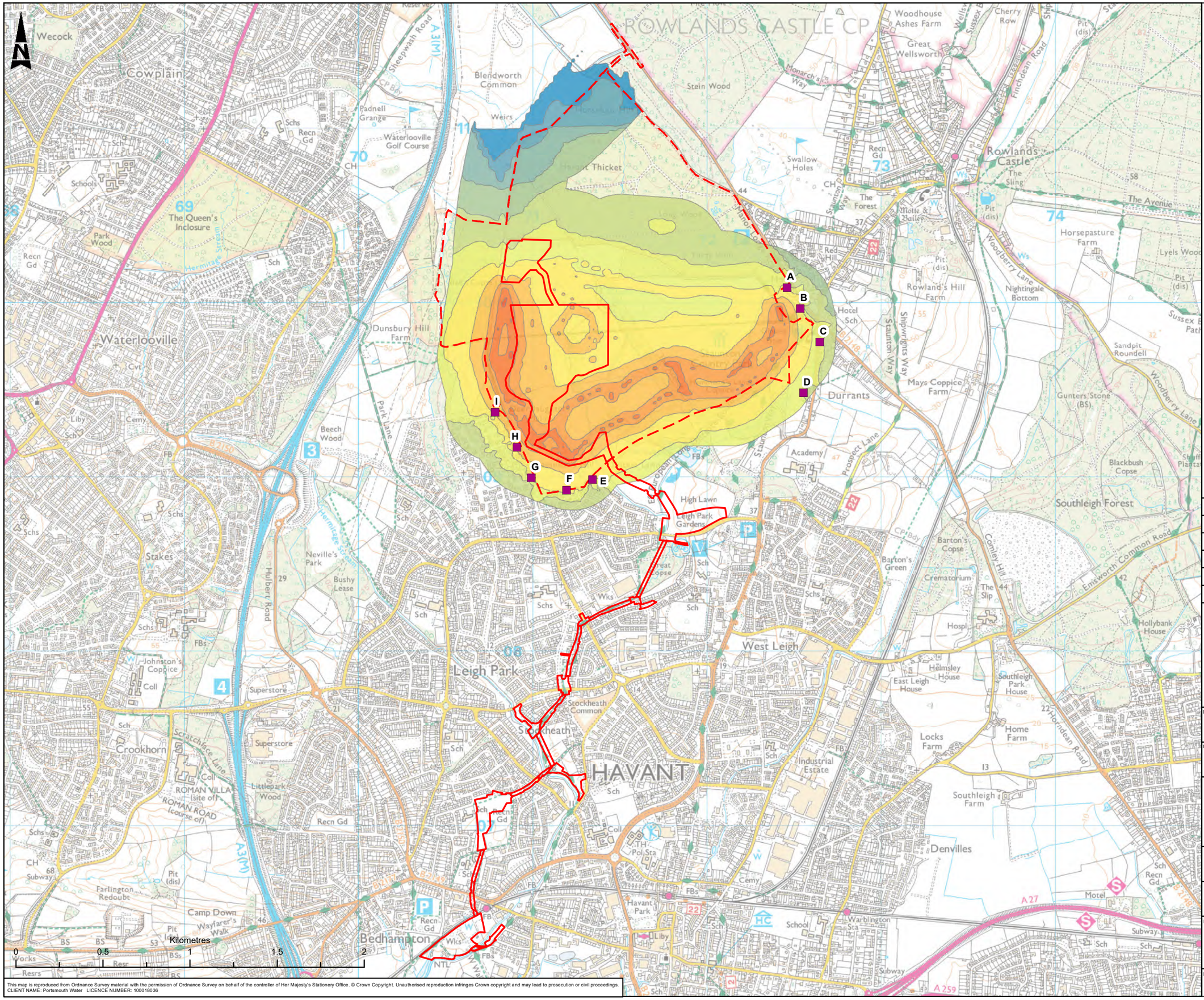
Project Title: HAVANT THICKET RESERVOIR

Drawing Title: FIGURE 12.11 RESERVOIR CONSTRUCTION NOISE CONTOUR - 2023 Q2

Portsmouth Water Drawing Number

Rev: C03



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Pipeline Red Line Boundary

Reservoir 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

Rev.	Drn By	Ckd By	Rev By	Auth By	Description	Date
C03	MMN	NW	AR	JF	PUBLISHED	04/04/2024
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5169117	1 of 1	1:20,000	A3

Project Title

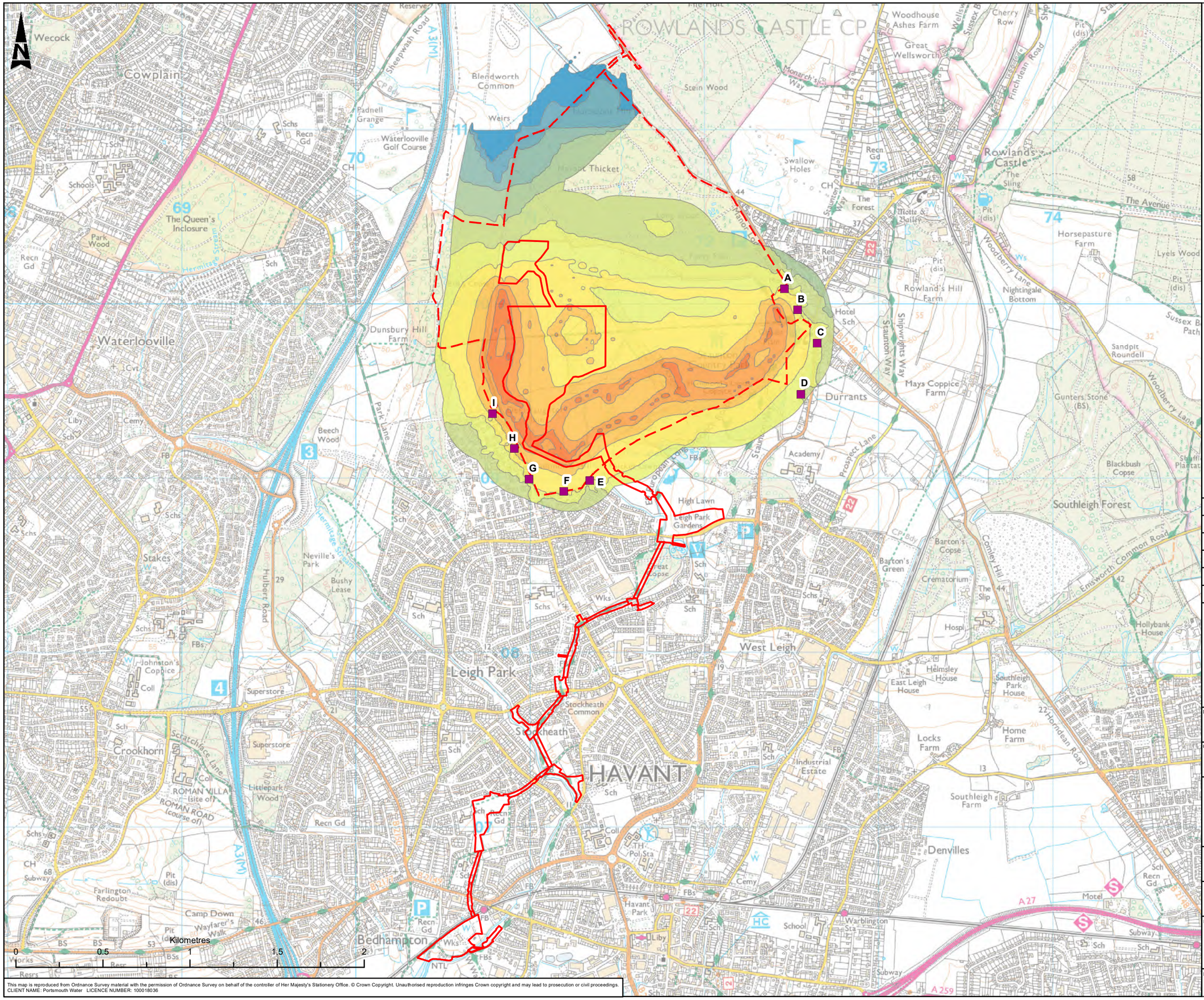
HAVANT THICKET RESERVOIR

Drawing Title

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

Portsmouth Water Drawing Number

Rev: C03



Pipeline Red Line Boundary

Reservoir 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

Rev.	Drn By	Ckd By	Rev By	Auth By	Description	Date
C03	MMN	NW	AR	JF	PUBLISHED	04/04/2024
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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

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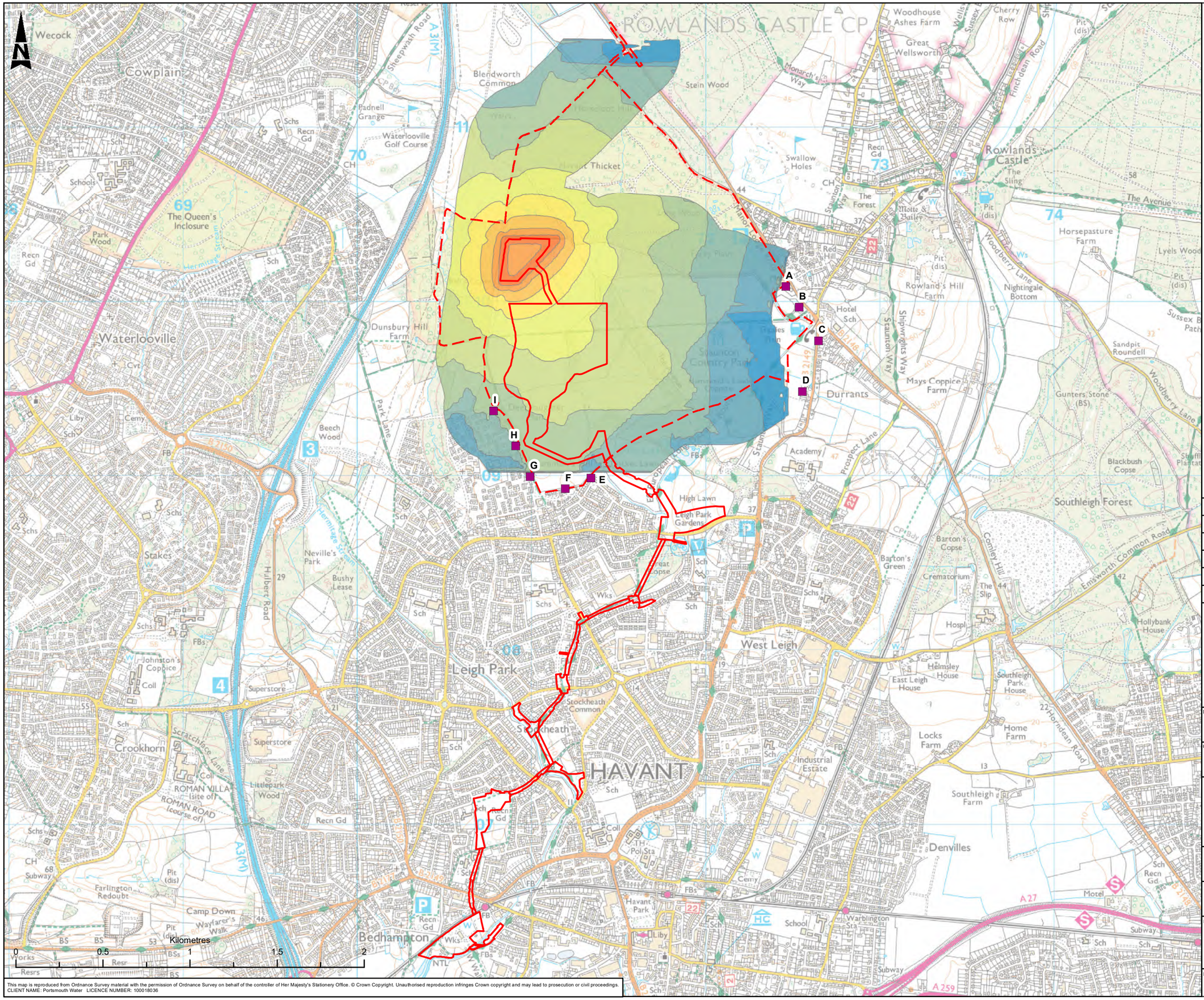

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Pipeline Red Line Boundary

Reservoir 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

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C03	MMN	NW	AR	JF	PUBLISHED	04/04/2024
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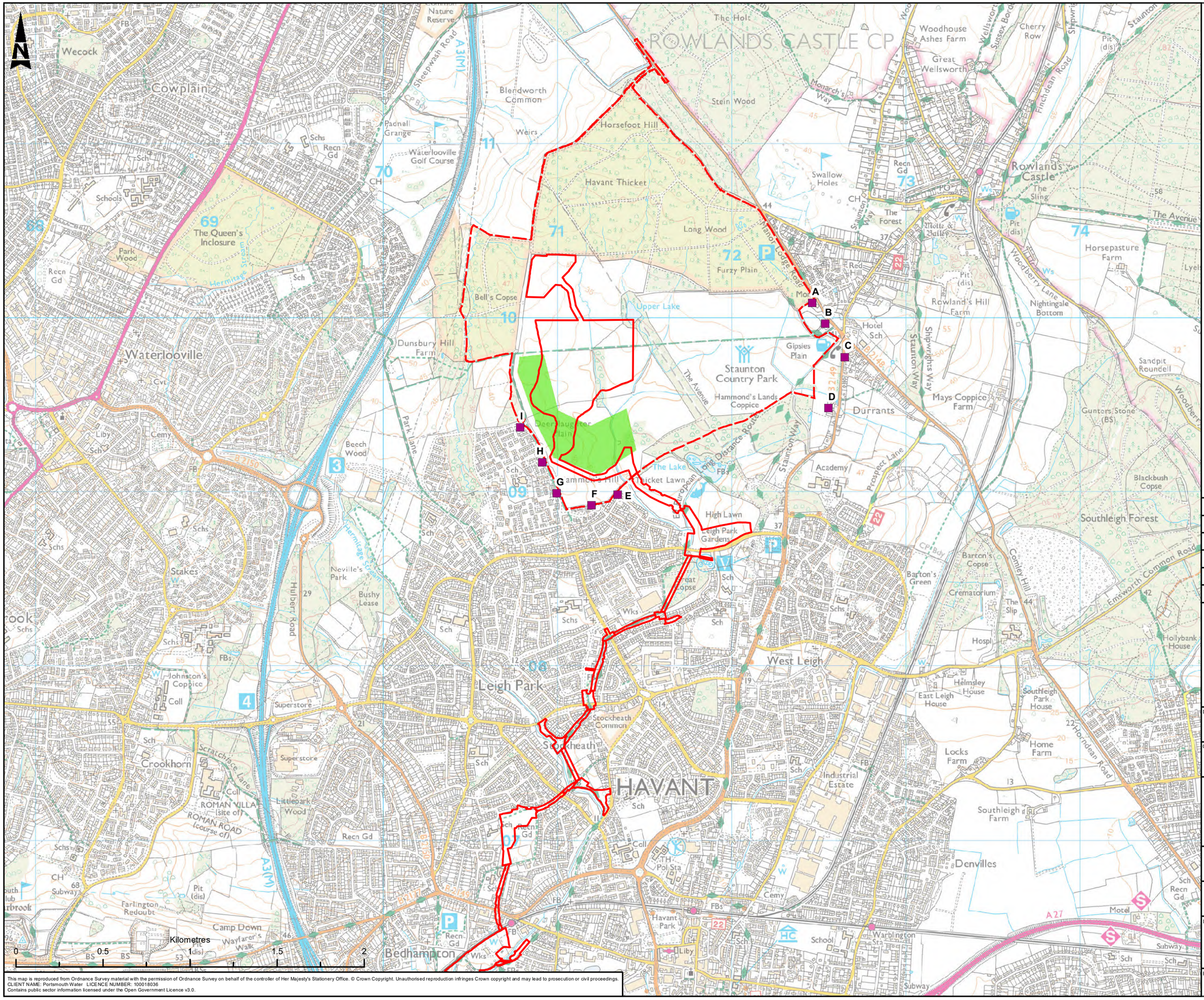
5169117	1 of 1	1:20,000	A3

Project Title: HAVANT THICKET RESERVOIR

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

Portsmouth Water Drawing Number

Rev: C03



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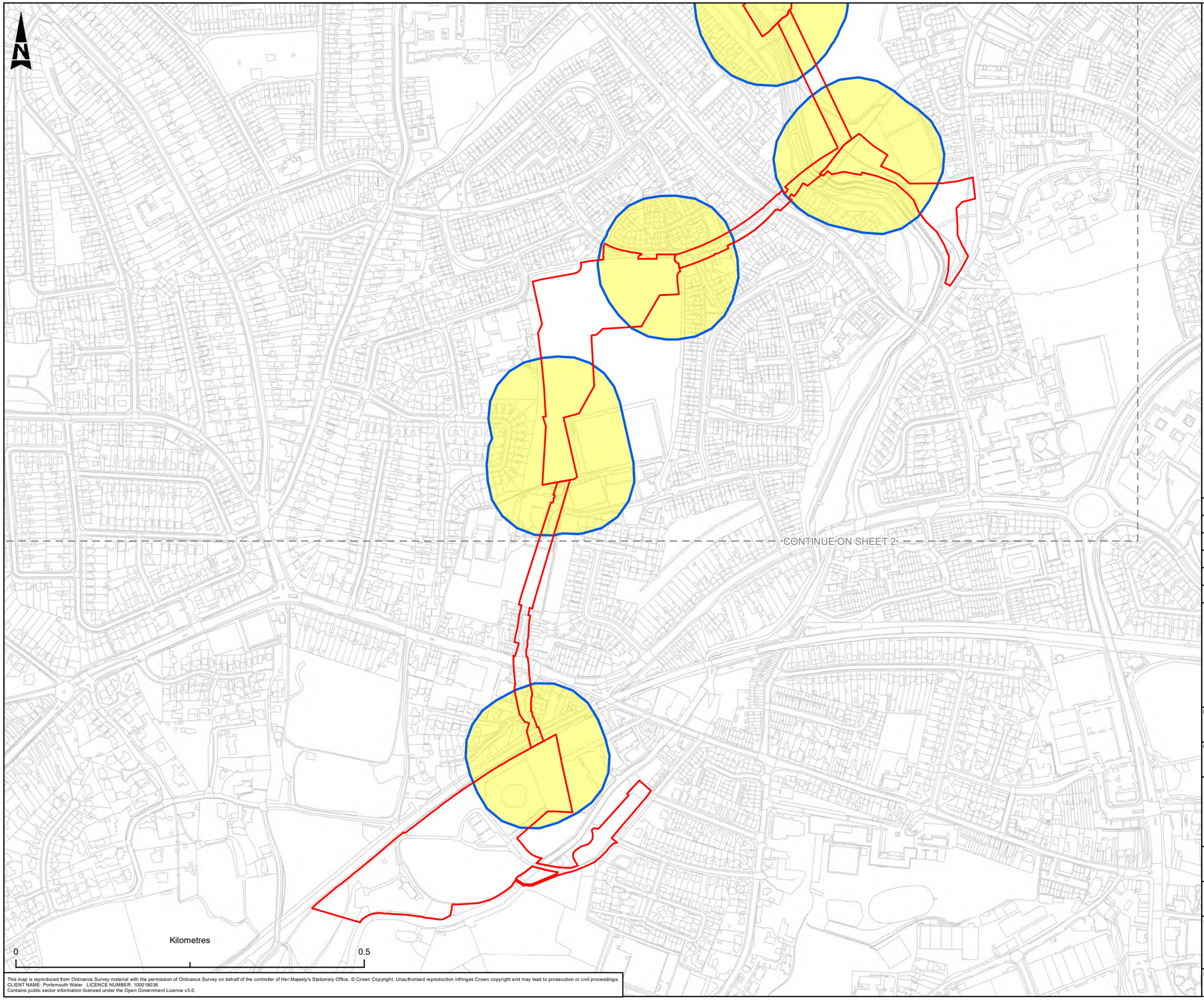
5169117	1 of 1	1:20,000	A3

Project Title
HAVANT THICKET RESERVOIR

Drawing Title
FIGURE 12.15
RESERVOIR AREAS THAT
NIGHT WORKS SHOULD AVOID

Portsmouth Water Drawing Number

Rev: C03



Pipeline Red Line Boundary
Reservoir Red Line Boundary
Adjacent Map Sheets
Maximum Area of Potentially Significant Daytime Noise Effects from Trenchless Pipeline and Culvert Construction

Rev.	Drn By	Ckd By	Rev By	Auth By	Description	Date
C03	NW	FD	AR	JF	PUBLISHED	23/04/2024
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Project Ref. No	Sheet	Scale	Sheet Size
5169117	1 of 3	1:5,000	A3

Project Title: HAVANT THICKET RESERVOIR

Drawing Title: FIGURE 12.16
TRENCHLESS PIPELINE AND CULVERT CONSTRUCTION - POTENTIAL DAYTIME SIGNIFICANT NOISE EFFECT MAP

Portsmouth Water Drawing Number
Rev: C03

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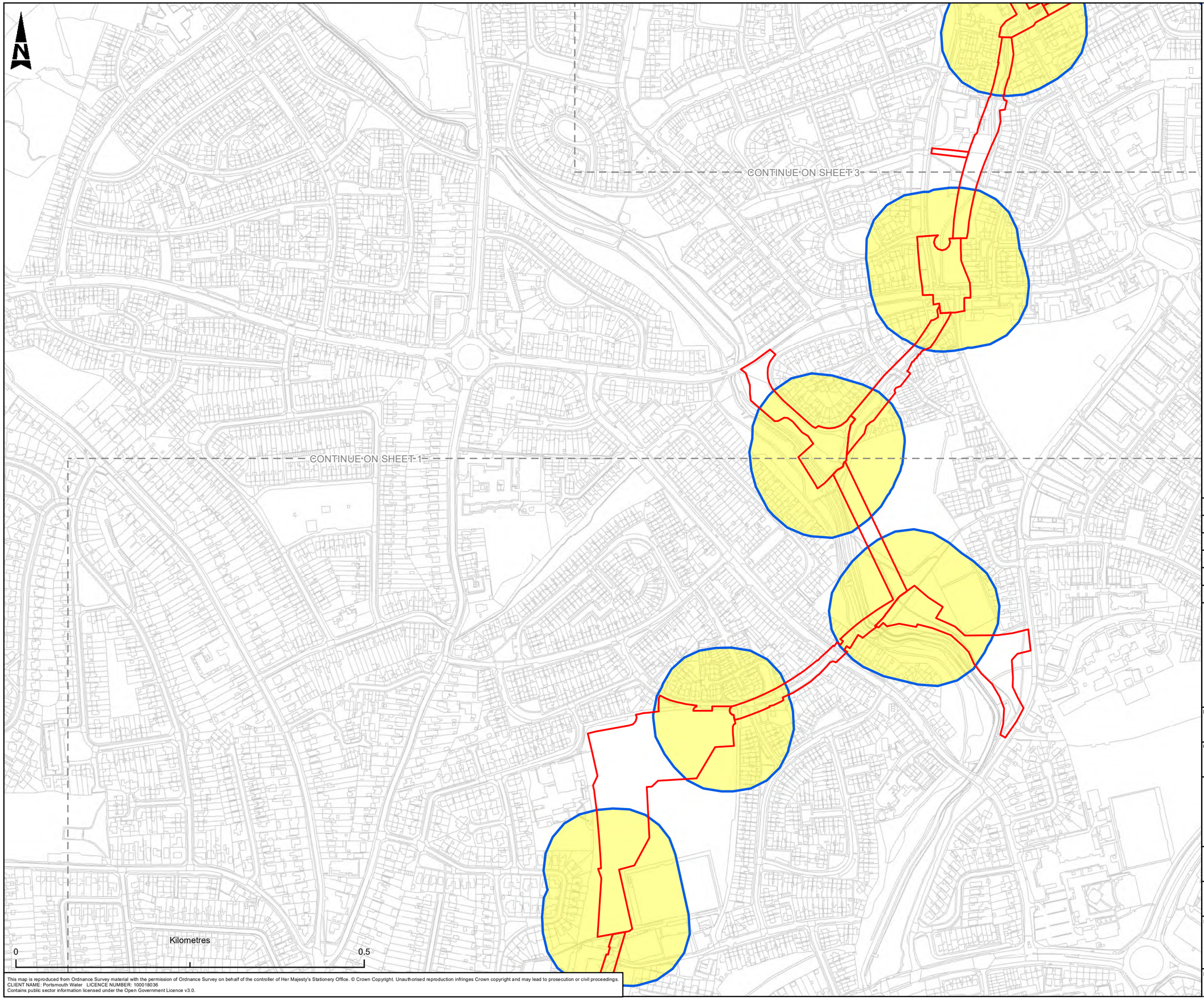

Pipeline Red Line Boundary
Reservoir Red Line Boundary
Adjacent Map Sheets
Maximum Area of Potentially Significant Daytime Noise Effects from Trenchless Pipeline and Culvert Construction

Rev.	Drn By	Ckd By	Rev By	Auth By	Description	Date
C03	NW	FD	AR	JF	PUBLISHED	23/04/2024
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Project Ref. No	Sheet	Scale	Sheet Size
5169117	2 of 3	1:5,000	A3

Project Title: HAVANT THICKET RESERVOIR

Drawing Title: FIGURE 12.16
TRENCHLESS PIPELINE AND CULVERT CONSTRUCTION - POTENTIAL DAYTIME SIGNIFICANT NOISE EFFECT MAP

Portsmouth Water Drawing Number
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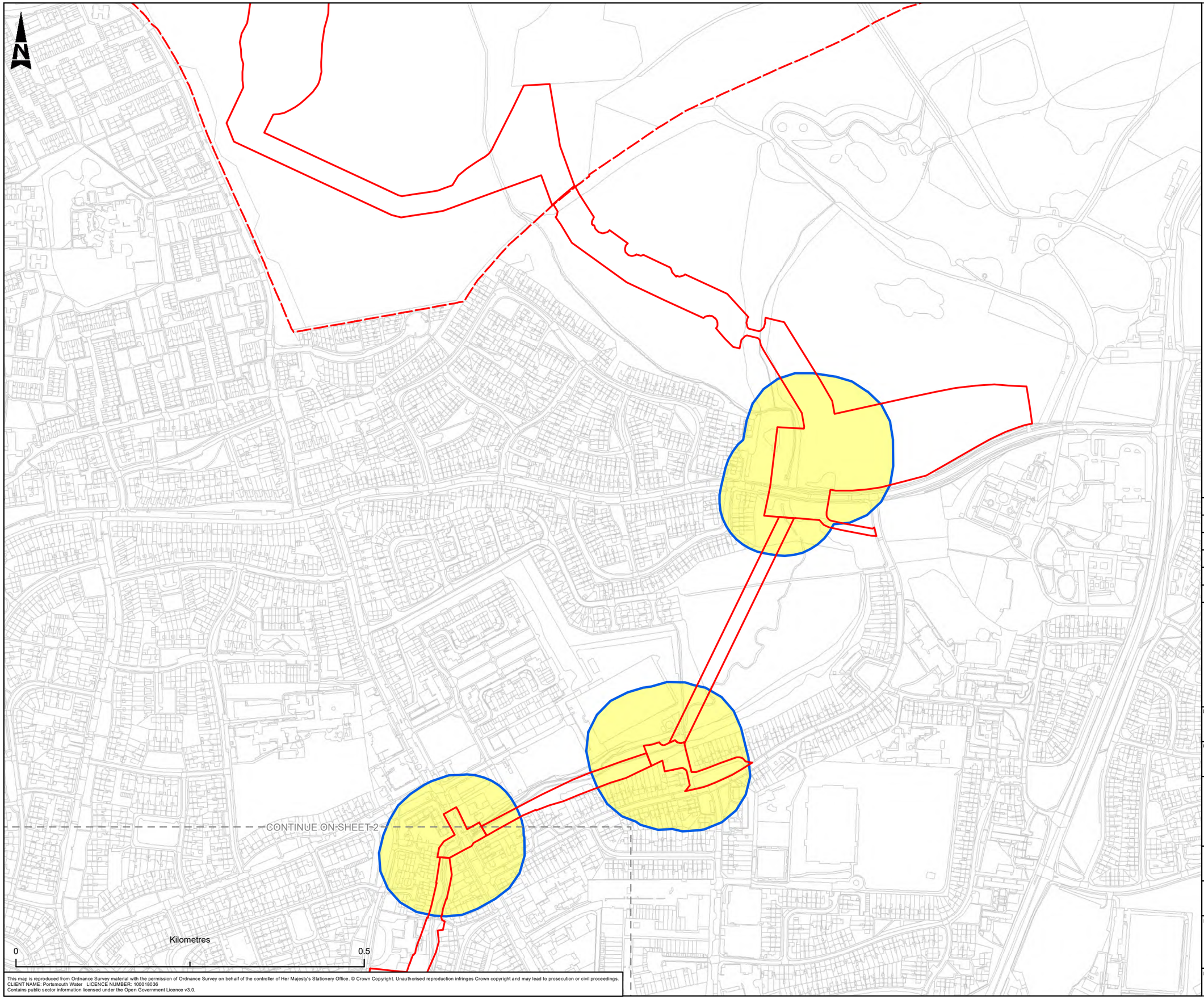

Pipeline Red Line Boundary

Reservoir Red Line Boundary

Adjacent Map Sheets

Maximum Area of Potentially Significant Daytime Noise Effects from Trenchless Pipeline and Culvert Construction

Rev.	Drn By	Ckd By	Rev By	Auth By	Description	Date
C03	NW	FD	AR	JF	PUBLISHED	23/04/2024
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Project Ref. No	Sheet	Scale	Sheet Size
5169117	3 of 3	1:5,000	A3

Project Title: HAVANT THICKET RESERVOIR

Drawing Title: FIGURE 12.16
TRENCHLESS PIPELINE AND CULVERT CONSTRUCTION - POTENTIAL DAYTIME SIGNIFICANT NOISE EFFECT MAP

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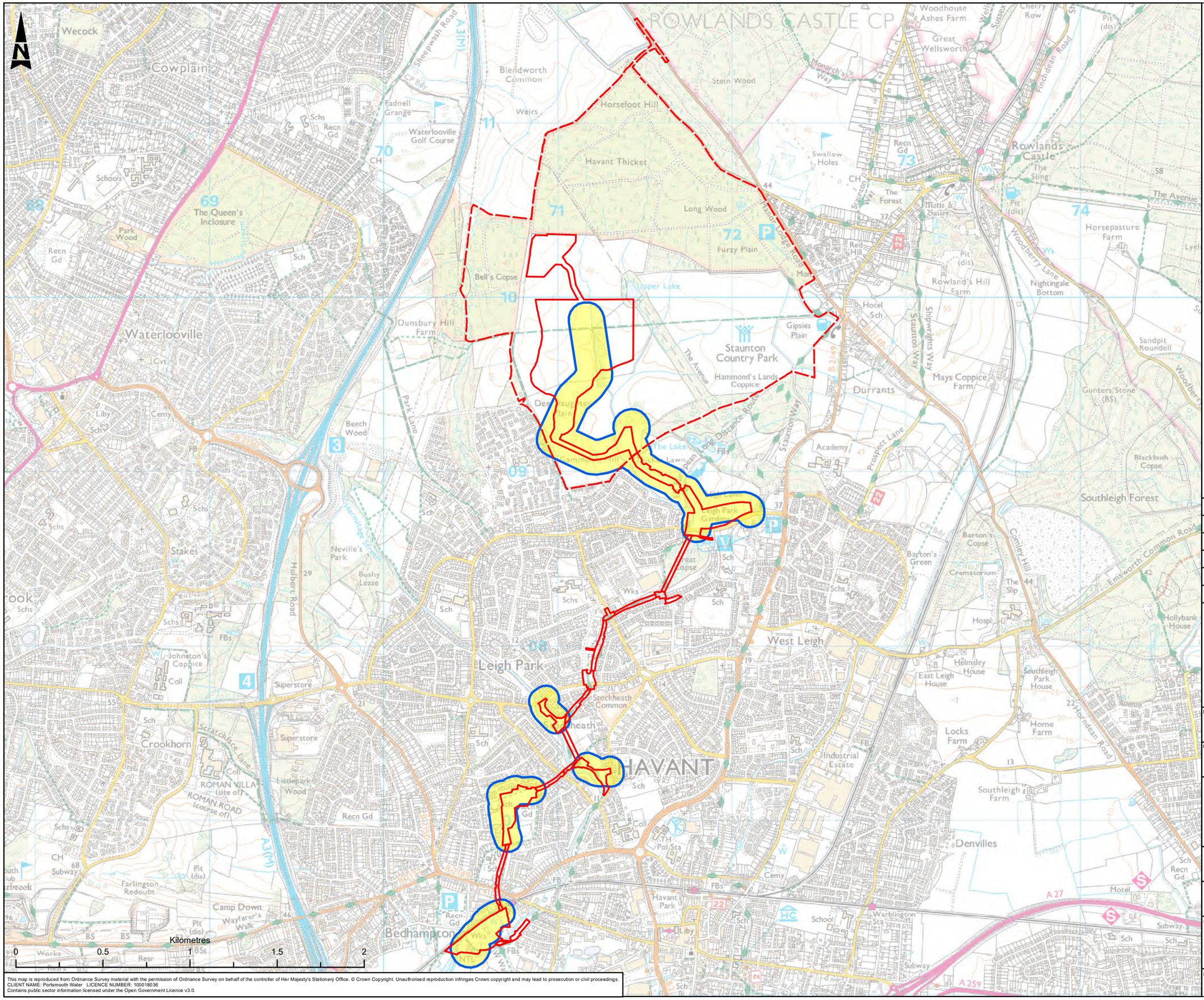

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C01	KP	DB	AL	LB	PUBLISHED	17/08/2020

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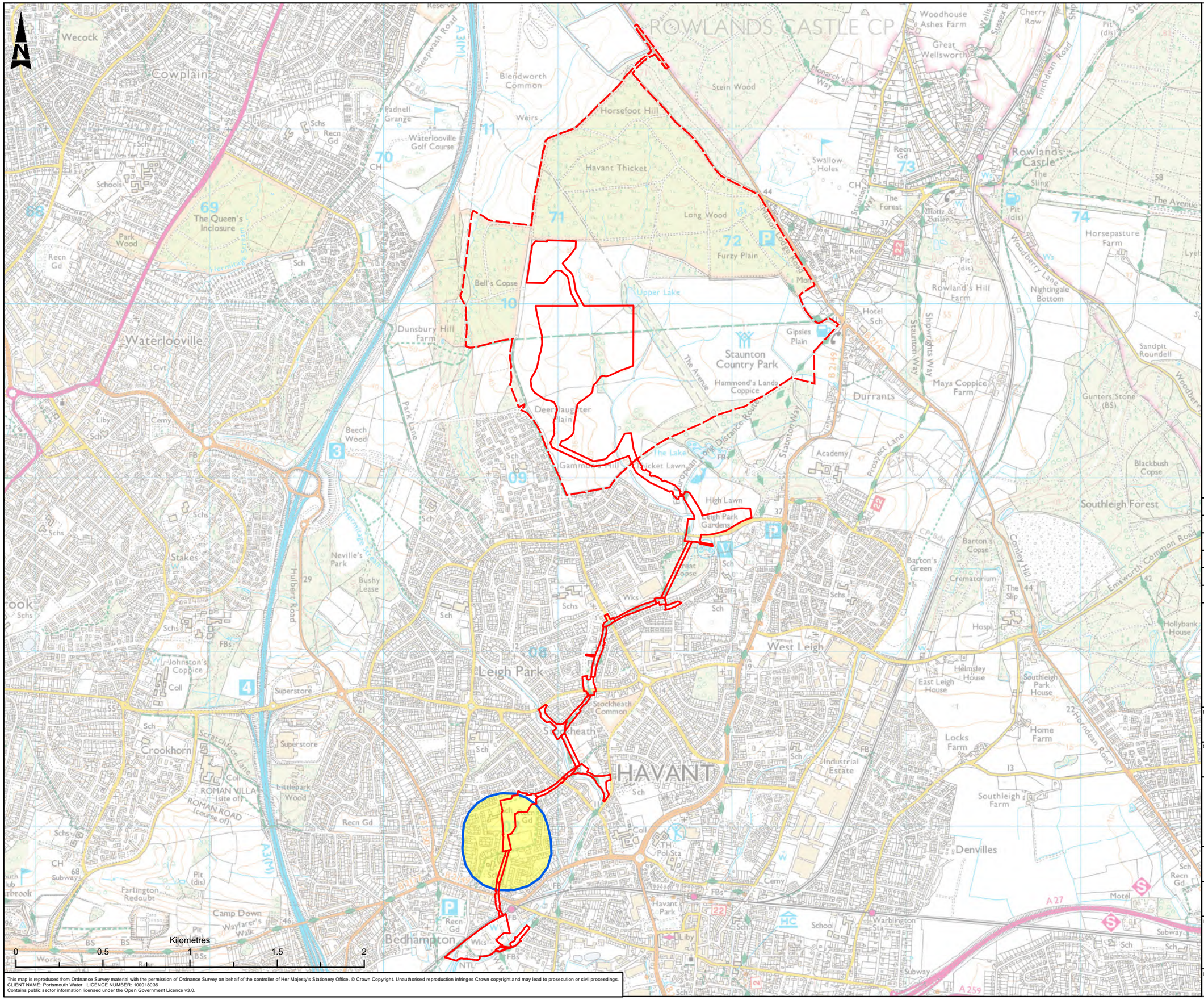
5169117	1 of 1	1:20,000	A3

Project Title: HAVANT THICKET RESERVOIR

Drawing Title: FIGURE 12.17 OPEN TRENCH PIPELINE, HAUL ROAD AND BEDHAMPTON COMPOUND CONSTRUCTION - POTENTIAL DAYTIME SIGNIFICANT NOISE EFFECT MAP

Portsmouth Water Drawing Number:
Rev: C03



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C02	FD	LM	AR	JF	PUBLISHED	12/06/2023
C01	KP	DB	AL	LB	PUBLISHED	17/08/2020

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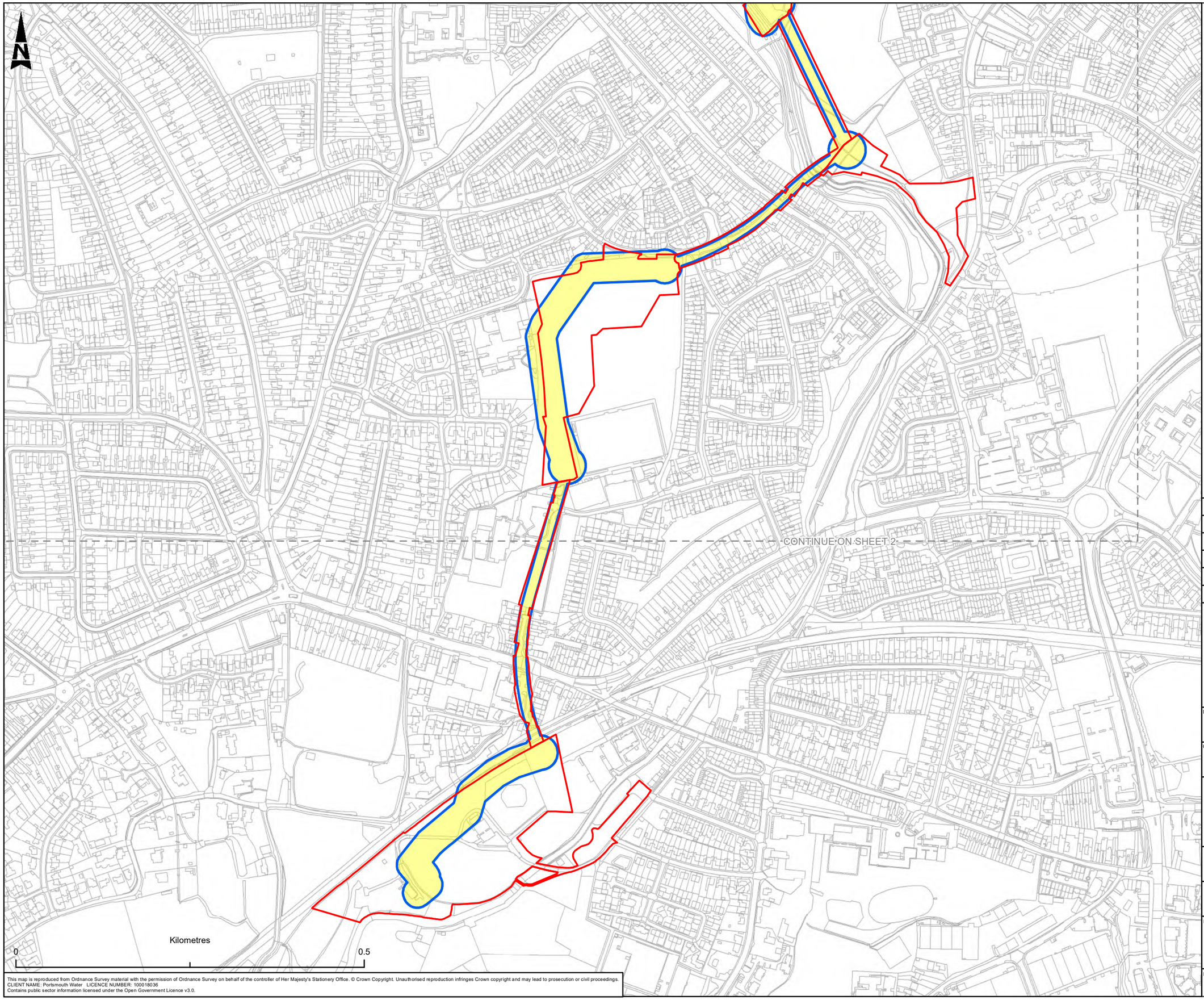
5169117	1 of 1	1:20,000	A3

Project Title: HAVANT THICKET RESERVOIR

Drawing Title: FIGURE 12.18
TRENCHLESS PIPELINE CONSTRUCTION - POTENTIAL NIGHT-TIME SIGNIFICANT NOISE EFFECTS MAP

Portsmouth Water Drawing Number
Rev: C03



Pipeline Red Line Boundary

Reservoir Red Line Boundary

Maximum Area of Potentially Significant Vibration Effects on Buildings From Pipeline Construction

Adjacent Map Sheets

Rev.	Drn By	Ckd By	Rev By	Auth By	Description	Date
C03	NW	FD	AR	JF	PUBLISHED	23/04/2024
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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 PIPELINE CONSTRUCTION - POTENTIAL SIGNIFICANT VIBRATION EFFECTS

Portsmouth Water Drawing Number

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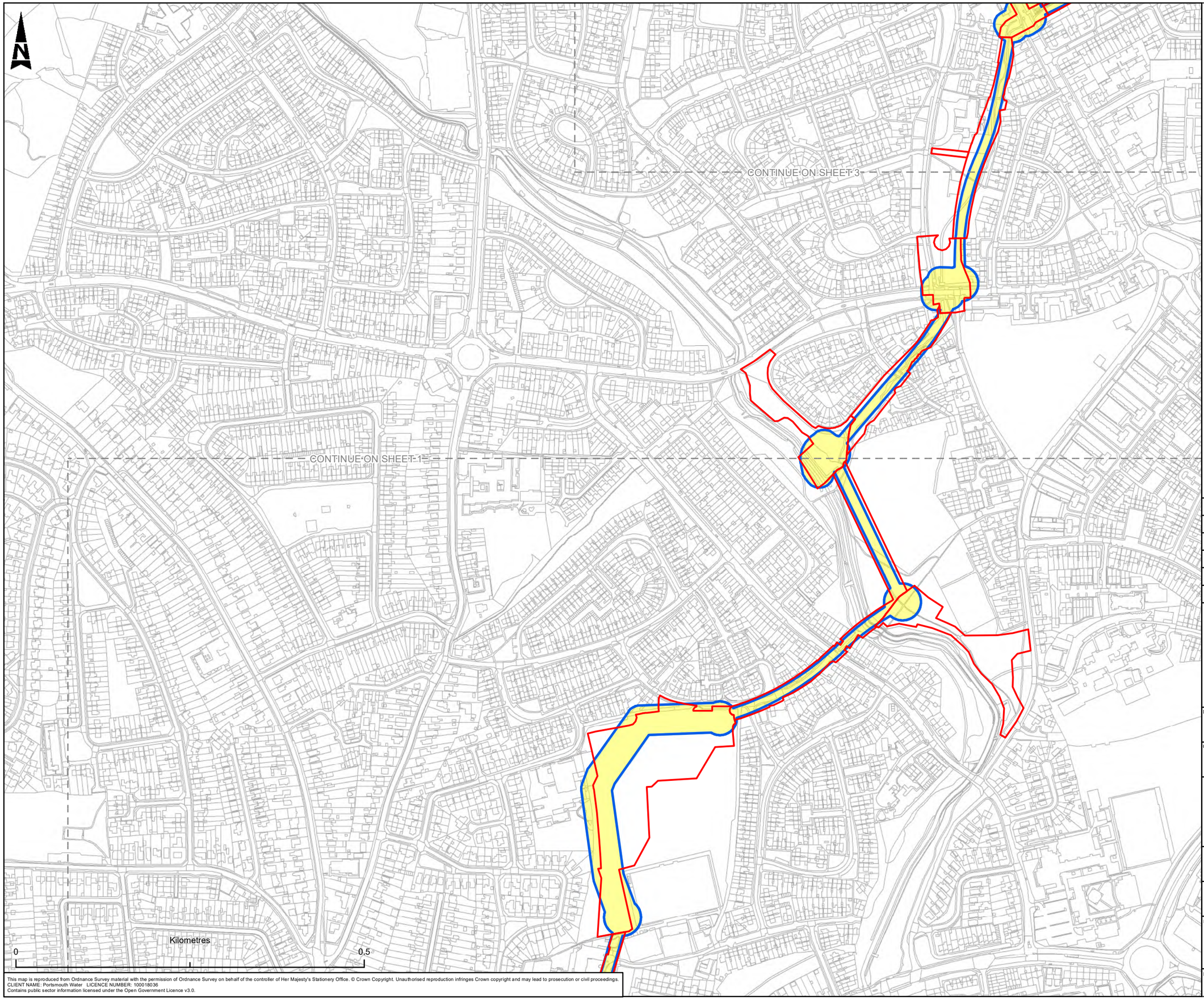

Pipeline Red Line Boundary

Reservoir Red Line Boundary

Maximum Area of Potentially Significant Vibration Effects on Buildings From Pipeline Construction

Adjacent Map Sheets

Rev.	Drn By	Ckd By	Rev By	Auth By	Description	Date
C03	NW	FD	AR	JF	PUBLISHED	23/04/2024
C02	FD	LM	AR	JF	PUBLISHED	12/06/2023
C01	KP	DB	AL	LB	PUBLISHED	10/07/2020

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Drawing Suitability: PUBLISHED

Status: A1

Contractors Drawing Number:

HTR - ATK - ZZ - ZZ - GS - Z - 0131

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

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Portsmouth Water

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 PIPELINE CONSTRUCTION - POTENTIAL SIGNIFICANT VIBRATION EFFECTS

Portsmouth Water Drawing Number

Rev: C03

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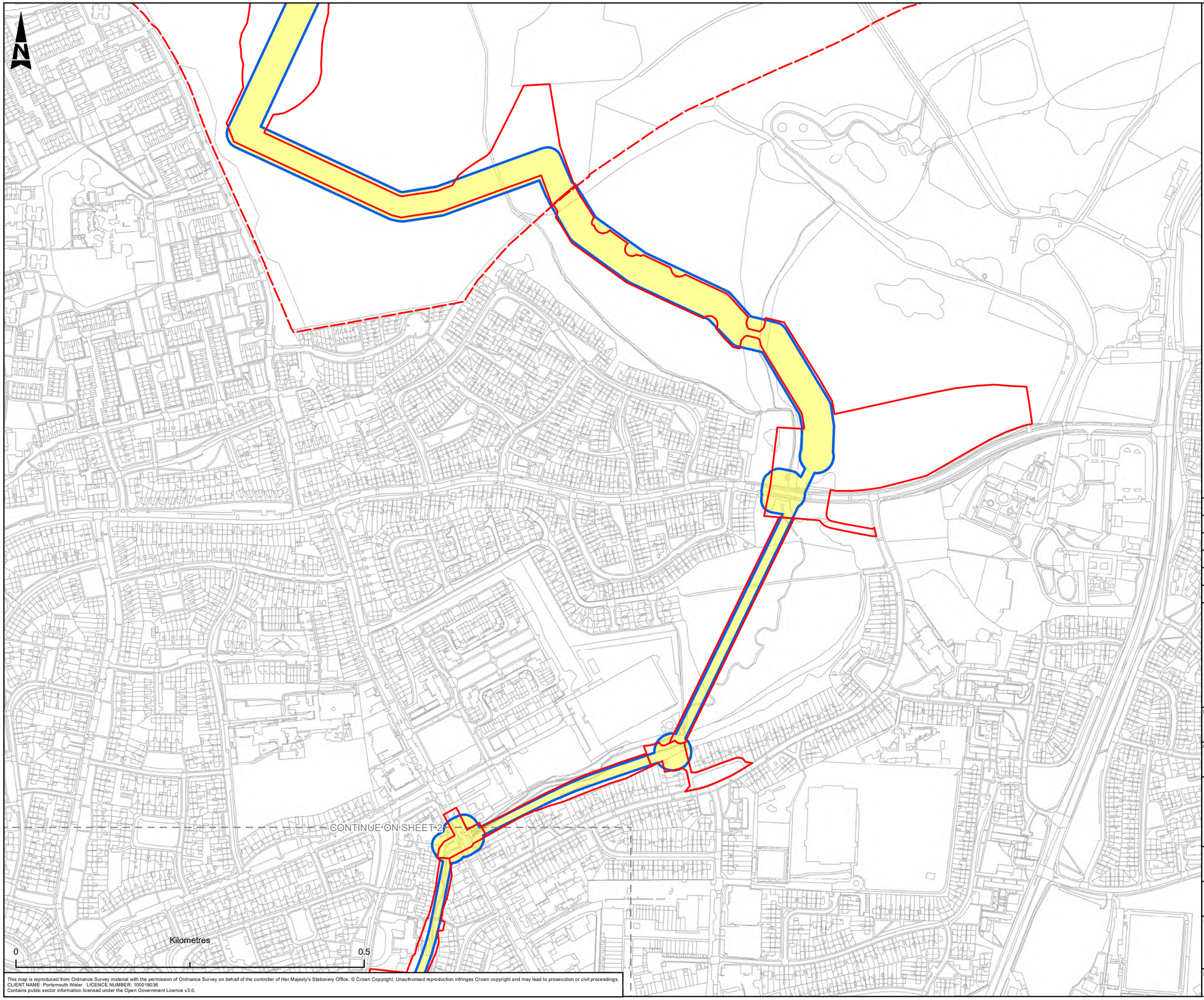

Pipeline Red Line Boundary

Reservoir Red Line Boundary

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