

Havant Thicket Reservoir Project

Environmental Statement Volume 4: Appendices
Appendix A15.2 Flood Risk Assessment
Appendix A Mapping

Portsmouth Water Ltd.

September 2020

Appendix 15.2A: Mapping

Drawing title	Drawing number
Figure A1 Baseline Flood Extents	HTR-ATK-ZZ-ZZ-GS-Z-0088
Figure A2 Baseline Flood Depth - 1 in 2 year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0089
Figure A3 Baseline Flood Depth - 1 in 5 year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0090
Figure A4 Baseline Flood Depth - 1 in 10 year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0091
Figure A5 Baseline Flood Depth - 1 in 30 year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0092
Figure A6 Baseline Flood Depth - 1 in 100 year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0093
Figure A7 Baseline Flood Depth - 1 in 1000 year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0094
Figure A8 Baseline Flood Depth - 1 in 100 year Annual Probability + 35% climate change	HTR-ATK-ZZ-ZZ-GS-Z-0095
Figure A9 Baseline Flood Depth - 1 in 100 year Annual Probability + 105% climate change	HTR-ATK-ZZ-ZZ-GS-Z-0096
Figure A10 Operational Flood Extents	HTR-ATK-ZZ-ZZ-GS-Z-0097
Figure A11 Operational Flood Depth - 1 in 2 year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0098
Figure A12 Operational Flood Depth - 1 in 5 year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0099
Figure A13 Operational Flood Depth - 1 in 10 year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0100
Figure A14 Operational Flood Depth - 1 in 30 year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0101
Figure A15 Operational Flood Depth - 1 in 100 year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0102
Figure A16 Operational Flood Depth - 1 in 1000 year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0103
Figure A17 Operational Flood Depth - 1 in 100 year Annual Probability + 35% climate change	HTR-ATK-ZZ-ZZ-GS-Z-0104
Figure A18 Operational Flood Depth - 1 in 100 year Annual Probability + 105% climate change	HTR-ATK-ZZ-ZZ-GS-Z-0105
Figure A19 Baseline and Operational Flood Extents - 1 in 100 Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0106
Figure A20 Baselines and Operational Flood Extents - 1 in 100 year Annual Probability + 35% climate change	HTR-ATK-ZZ-ZZ-GS-Z-0107
Figure A21 Baseline and Operational Tidal Flood Extents - 1 in 1000 Year Annual Probability	HTR-ATK-ZZ-ZZ-GS-Z-0108
Figure A22 Baseline and Operational Tidal Flood Extents - 1 in 1000 Annual Probability + Climate Change	HTR-ATK-ZZ-ZZ-GS-Z-0109
Figure A23 Emergency Discharge + Q10 + 1 in 2 year Annual Probability Tidal Flood Extent	HTR-ATK-ZZ-ZZ-GS-Z-0110
Figure A24 Emergency Discharge + 1 in 30 Annual Probability Fluvial Event Flood Extent	HTR-ATK-ZZ-ZZ-GS-Z-0111
Figure A25 Breach Extent - Dry Day with Embankment Breach	HTR-ATK-ZZ-ZZ-GS-Z-0112
Figure A26 Breach Extent - Wet Day with and without Embankment Breach	HTR-ATK-ZZ-ZZ-GS-Z-0113



Baseline flood depths - 50% (1 in 2 year) AP

- <0.05m
- 0.05 - 0.1m
- 0.1 - 0.2m
- 0.2 - 0.3m
- 0.3 - 0.4m
- 0.4 - 0.5m
- 0.5 - 1m
- 1m+
- River Reach

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Contractors Drawing Number:

HTR - ATK - ZZ - ZZ - GS - Z - 0089

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

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Project Ref. No	Sheet	Scale	Sheet Size
5169117	1 of 1	1:15,000	A3

Project Title

HAVANT THICKET RESERVOIR

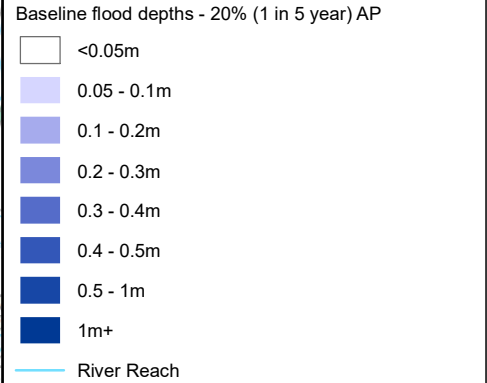
Drawing Title

FIGURE A2: BASELINE FLOOD DEPTH
- 1 IN 2 YEAR AP

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FIGURE A3: BASELINE FLOOD DEPTH - 1 IN 5 YEAR AP

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Baseline flood depths - 10% (1 in 10 year) AP

- <0.05m
- 0.05 - 0.1m
- 0.1 - 0.2m
- 0.2 - 0.3m
- 0.3 - 0.4m
- 0.4 - 0.5m
- 0.5 - 1m
- 1m+
- River Reach

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Drawing Title

FIGURE A4: BASELINE FLOOD DEPTH
- 1 IN 10 YEAR AP

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Baseline flood depths - 3.33% (1 in 30 year) AP

<0.05m

0.05 - 0.1m

0.1 - 0.2m

0.2 - 0.3m

0.3 - 0.4m

0.4 - 0.5m

0.5 - 1m

1m+

River Reach

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HAVANT THICKET RESERVOIR

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FIGURE A5: BASELINE FLOOD DEPTH
- 1 IN 30 YEAR AP

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Operational flood depths - 1% (1 in 100 year) AP

- <0.05m
- 0.05 - 0.1m
- 0.1 - 0.2m
- 0.2 - 0.3m
- 0.3 - 0.4m
- 0.4 - 0.5m
- 0.5 - 1m
- 1m+
- River Reach

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FIGURE A6: BASELINE FLOOD DEPTH
- 1 IN 100 YEAR AP

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