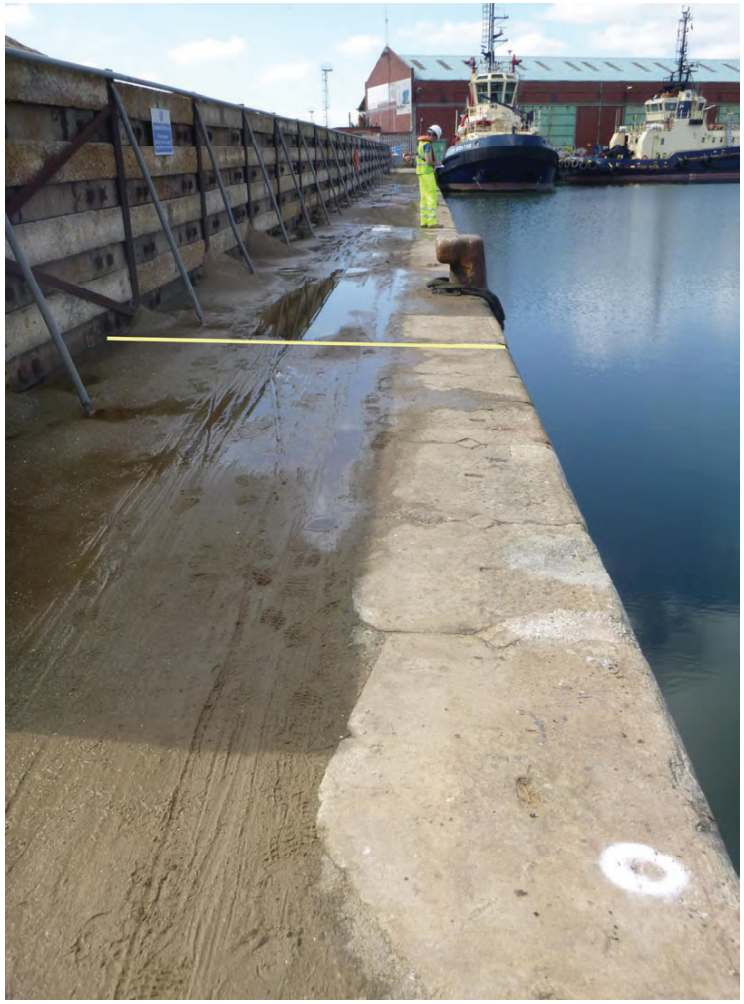

Figure A74a - Bramley Moore: Coping Chainage 345 to 350m

A75 Chainage 350 to 355m

Figure A75 - Bramley Moore: Chainage 350 to 355m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	x
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork		Steps	
Cobbles		Miscellaneous		Timber	
Concrete		Mooring Bollard	x	Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**2**	**Good**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
350 to 352, 353 to 355	Coping	0 to 0.5	-	Good - Minor cracks created by minor movement. Surface defects in coping or limited mortar loss from joints
352 to 353	Repair	0 to 1.5	-	Concrete repair to brickwork/blockwork
350 to 355	Brickwork / Masonry	0.5 to 1.8	-	Good - Minor cracks created by minor movement. Surface defects in bricks or limited mortar loss from joints
350 to 355	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
350 to 355	Coping	0 (coping)	-	Obscured due to large amounts of sand
352.5	Mooring Bollard	0 (coping)	H = 0.8m	T-Shaped bollard embedded into coping. Good condition, localised surface corrosion

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
354 to 355	Brickwork / Masonry	Loss of Mortar	0.5 to 1.5	Mortar loss to bricks/blocks is significant resulting in loosening of bricks/blocks

Figure A75a - Bramley Moore: Coping Chainage 350 to 355m

A76 Chainage 355 to 360m

Figure A76 - Bramley Moore: Chainage 355 to 360m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor	x	Lock Gate		Recess	
Boat		Manhole		Repair	x
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork		Steps	
Cobbles		Miscellaneous		Timber	
Concrete		Mooring Bollard		Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	x
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**2**	**Good**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
355 to 351, 353 to 355	Coping	0 to 0.5	-	Good - Minor cracks created by minor movement. Surface defects in coping or limited mortar loss from joints
351 to 353	Repair	0 to 0.5	-	Concrete repair to coping
355 to 360	Brickwork / Masonry	0.3 to 1.8	-	Good - Minor cracks created by minor movement. Surface defects in bricks or limited mortar loss from joints
355 to 360	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
351	Weephole / Outfall	1	D = 0.2m	Rectangular weephole/outfall. Fair condition, some deterioration of material surrounding weephole/outfall. Any fixings have minor damage
358.5	Anchor	0.1 to 0.4	0.3 x 0.3m	Good - Localised surface corrosion with slight loss of thickness. No physical deformation or movement of anchor ties/plates
355 to 360	Coping	0 (coping)	-	Obscured due to large amounts of sand

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
355 to 360	Coping	Loss of Mortar	0.3 to 0.5	Mortar loss to bricks/blocks is limited to the surface. Defects are cosmetic only
355	Brickwork / Masonry	Loss of Bricks/Blocks	0.5	Loss of small group of bricks/blocks. Defects are cosmetic but have the potential to affect the walls integrity

Figure A76a - Bramley Moore: Coping Chainage 355 to 360m

A77 Chainage 360 to 365m

Figure A77 - Bramley Moore: Chainage 360 to 365m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor	x	Lock Gate		Recess	
Boat		Manhole		Repair	
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork	x	Steps	
Cobbles		Miscellaneous		Timber	
Concrete		Mooring Bollard		Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	x
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**2**	**Good**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
360 to 365	Coping	0 to 0.5	-	Good - Minor cracks created by minor movement. Surface defects in coping or limited mortar loss from joints
360 to 365	Brickwork / Masonry	0.5 to 1.8	-	Good - Minor cracks created by minor movement. Surface defects in bricks or limited mortar loss from joints
360 to 365	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
360.5	Anchor	0.1 to 0.4	0.3 x 0.3m	Good - Localised surface corrosion with slight loss of thickness. No physical deformation or movement of anchor ties/plates
364	Weephole / Outfall	0.9	D = 0.2m	Rectangular weephole/outfall. Fair condition, some deterioration of material surrounding weephole/outfall. Any fixings have minor damage
360 to 365	Coping	0 (coping)	-	Obscured due to large amounts of sand
360 to 361	Metalwork	0 (coping)	-	Rail track. Poor condition, extensive corrosion with major thickness loss

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
363 to 365	Coping	Loss of Mortar	0.3 to 0.5	Mortar loss to bricks/blocks is limited to the surface. Defects are cosmetic only
363 to 365	Brickwork / Masonry	Loss of Mortar	0.4 to 0.5	Mortar loss to bricks/blocks extends below surface and has the potential to weaken/loosen surrounding bricks/blocks

Figure A77a - Bramley Moore: Coping Chainage 360 to 365m

A78 Chainage 365 to 370m

Figure A78 - Bramley Moore: Chainage 365 to 370m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	x
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork	x	Steps	
Cobbles		Miscellaneous		Timber	
Concrete	x	Mooring Bollard	x	Vegetation	
Coping	x	Mooring Chain	x	Weephole / Outfall	
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**4**	**Poor**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
365 to 369	Coping	0 to 0.4	-	Fair - Slight coping displacement created by movement. Mortar loss from joints and joints/coping cracking. Rounding/chipping of coping edges
369 to 370	Repair	0 to 0.5	-	Concrete repair to coping
365 to 370	Brickwork / Masonry	0.5 to 1.8	-	Poor - Substantial cracking and damage created by movement. Missing bricks, extensive spalling and/or misalignment of bricks.
365 to 370	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
367.5	Mooring Chain	0.9 to 1.8	-	Fixed within recess. Fair condition, extensive corrosion with minor thickness loss and/or minor damage to links
365 to 370	Concrete	0 (coping)	-	Good - Structurally sound but with minor cracks and localised honeycombing/flaking with no significant defects
365 to 370	Metalwork	0 (coping)	-	Rail track. Fair condition, extensive corrosion with minor thickness loss
367.5	Mooring Bollard	0 (coping)	H = 0.2m	Short pillar bollard. Good condition, localised surface corrosion

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
365 to 370	Coping	Loss of Mortar	0.4 to 0.5	Mortar loss to coping stones is significant resulting in loosening of bricks/blocks
365 to 370	Brickwork / Masonry	Loss of Bricks/Blocks	0.4 to 0.9	Full brick/block loss leading to exposure of material behind the wall. Progressive failure of wall through material washout likely
365 to 370	Brickwork / Masonry	Loss of Mortar	0.4 to 0.9	Mortar loss to bricks/blocks is significant resulting in loosening of bricks/blocks
369 to 370	Repair	Impact Damage	0 to 0.2	Localised impact damage resulting in chipping/fragmentation of wall materials

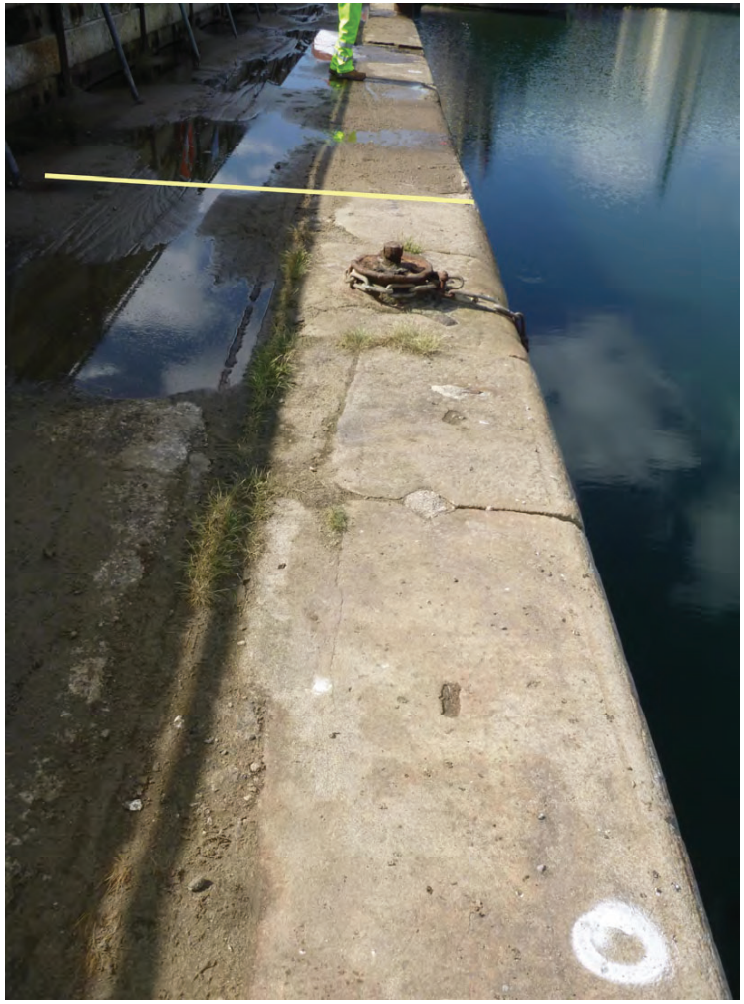

Figure A78a - Bramley Moore: Coping Chainage 365 to 370m

A79 Chainage 370 to 375m

Figure A79 - Bramley Moore: Chainage 370 to 375m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	x
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork		Steps	
Cobbles		Miscellaneous		Timber	
Concrete		Mooring Bollard		Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	x
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**2**	**Good**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
370 to 374.5	Repair	0 to 0.5	-	Concrete repair to coping
374.5 to 375	Coping	0 to 0.5	-	Good - Minor cracks created by minor movement. Surface defects in coping or limited mortar loss from joints
370 to 375	Brickwork / Masonry	0.5 to 1.8	-	Good - Minor cracks created by minor movement. Surface defects in bricks or limited mortar loss from joints
370 to 375	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
371.5	Weephole / Outfall	0.8	D = 0.2m	Rectangular weephole/outfall. Good condition, some degradation but fully operable

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
370 to 374.5	Repair	Flaking / Spalling	0 to 0.5	Flaking of surface concrete. Flaking likely due to impact damage or freeze thaw action
370 to 375	Brickwork / Masonry	Loss of Mortar	0.3 to 1	Mortar loss to bricks/blocks is limited to the surface. Defects are cosmetic only

Figure A79a - Bramley Moore: Coping Chainage 370 to 375m

A80 Chainage 375 to 380m

Figure A80 - Bramley Moore: Chainage 375 to 380m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork		Steps	
Cobbles		Miscellaneous		Timber	
Concrete		Mooring Bollard		Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	x
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**2**	**Good**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
375 to 380	Coping	0 to 0.5	-	Fair - Slight coping displacement created by movement. Mortar loss from joints and joints/coping cracking. Rounding/chipping of coping edges
375 to 380	Brickwork / Masonry	0.5 to 1.8	-	Good - Minor cracks created by minor movement. Surface defects in bricks or limited mortar loss from joints
375 to 380	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
379	Weephole / Outfall	1.1	D = 0.2m	Rectangular weephole/outfall. Good condition, some degradation but fully operable
375 to 380	Coping	0 (coping)	-	Obscured due to large amounts of sand

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
375 to 380	Coping	Loss of Mortar	0.3 to 0.5	Mortar loss to coping stone is limited to the surface. Defects are cosmetic only
376 to 377	Coping	Loss of Coping	0 to 0.2	Loss/fracturing to edge of coping stone but block remains sound. Likely linked to impact damage
375 to 376, 378 to 380	Brickwork / Masonry	Loss of Mortar	0.3 to 0.7	Mortar loss to bricks/blocks is significant resulting in loosening of bricks/blocks

Figure A80a - Bramley Moore: Coping Chainage 375 to 380m

A81 Chainage 380 to 385m

Figure A81 - Bramley Moore: Chainage 380 to 385m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	x
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork		Steps	
Cobbles		Miscellaneous		Timber	
Concrete		Mooring Bollard	x	Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**2**	**Good**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
380 to 383, 384 to 385	Coping	0 to 0.5	-	Good - Minor cracks created by minor movement. Surface defects in coping or limited mortar loss from joints
380 to 383, 384 to 385	Brickwork / Masonry	0.5 to 1.8	-	Good - Minor cracks created by minor movement. Surface defects in bricks or limited mortar loss from joints
383 to 384	Repair	0 to 1.5	-	Concrete repair to brickwork/blockwork
380 to 385	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
380 to 385	Coping	0 (coping)	-	Obscured due to large amounts of sand
383	Mooring Bollard	0 (coping)	H = 0.8m	T-Shaped bollard embedded into coping. Good condition, localised surface corrosion

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
381.5	Coping	Loss of Coping	0 to 0.2	Loss/fracturing to edge of coping stone but block remains sound. Likely linked to impact damage
380 to 381	Brickwork / Masonry	Loss of Mortar	0.5 to 1.5	Mortar loss to bricks/blocks is significant resulting in loosening of bricks/blocks

Figure A81a - Bramley Moore: Coping Chainage 380 to 385m

A82 Chainage 385 to 390m

Figure A82 - Bramley Moore: Chainage 385 to 390m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork	x	Steps	
Cobbles		Miscellaneous		Timber	
Concrete	x	Mooring Bollard		Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	x
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**3**	**Fair**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
385 to 390	Coping	0 to 0.5	-	Fair - Slight coping displacement created by movement. Mortar loss from joints and joints/coping cracking. Rounding/chipping of coping edges
385 to 390	Brickwork / Masonry	0.3 to 1.8	-	Fair - Slight brick displacement created by movement. Mortar loss from joints and joint/brick cracking
385 to 390	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
387	Weephole / Outfall	0.9	D = 0.2m	Piped outfall. Fair condition, some deterioration of material surrounding outfall. Significant corrosion to pipe
385 to 390	Concrete	0 (coping)	-	Fair - Rust staining, localised spalling, lengthy cracking and some movement or extensive honeycombing
385 to 390	Metalwork	0 (coping)	-	Rail track. Fair condition, extensive corrosion with minor thickness loss

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
385 to 390	Coping	Loss of Mortar	0.3 to 0.5	Mortar loss to coping stones is significant resulting in loosening of bricks/blocks
386.5 to 389	Concrete	Loss of Coping	0 to 0.3	Loss/fracturing to edge of coping stone but block remains sound. Likely linked to impact damage
385 to 390	Brickwork / Masonry	Loss of Mortar	0.3 to 0.9	Mortar loss to bricks/blocks is significant resulting in loosening of bricks/blocks
387	Brickwork / Masonry	Loss of Bricks/Blocks	0.9	Loss of small group of bricks/blocks. Defects are cosmetic but have the potential to affect the walls integrity

Figure A82a - Bramley Moore: Coping Chainage 385 to 390m

A83 Chainage 390 to 395m

Figure A83 - Bramley Moore: Chainage 390 to 395m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	x
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork	x	Steps	
Cobbles		Miscellaneous		Timber	
Concrete	x	Mooring Bollard		Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**2**	**Good**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
390 to 395	Coping	0 to 0.5	-	Fair - Slight coping displacement created by movement. Mortar loss from joints and joints/coping cracking. Rounding/chipping of coping edges
390 to 395	Repair	0.5 to 0.8	-	Concrete repair to brickwork/blockwork
390 to 395	Brickwork / Masonry	0.8 to 1.8	-	Good - Minor cracks created by minor movement. Surface defects in bricks or limited mortar loss from joints
390 to 395	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
390 to 395	Concrete	0 (coping)	-	Good - Structurally sound but with minor cracks and localised honeycombing/flaking with no significant defects
390 to 395	Metalwork	0 (coping)	-	Rail track. Fair condition, extensive corrosion with minor thickness loss

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
390 to 391	Coping	Loss of Coping	0 to 0.2	Loss/fracturing to edge of coping stone but block remains sound. Likely linked to impact damage
391 to 395	Coping	Loss of Mortar	0.4 to 0.5	Mortar loss to coping stones extends below surface and has the potential to weaken/loosen surrounding bricks/blocks
390 to 395	Repair	Flaking / Spalling	0.5 to 0.8	Minor spalling or surface concrete most likely due to impact damage or early onset of reinforcement corrosion
390 to 395	Brickwork / Masonry	Loss of Mortar	0.8 to 1	Mortar loss to bricks/blocks extends below surface and has the potential to weaken/loosen surrounding bricks/blocks

Figure A83a - Bramley Moore: Coping Chainage 390 to 395m

A84 Chainage 395 to 400m

Figure A84 - Bramley Moore: Chainage 395 to 400m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	x
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork	x	Steps	
Cobbles		Miscellaneous		Timber	
Concrete	x	Mooring Bollard		Vegetation	
Coping	x	Mooring Chain	x	Weephole / Outfall	
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**3**	**Fair**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
395 to 397, 399 to 400	Coping	0 to 0.5	-	Fair - Slight coping displacement created by movement. Mortar loss from joints and joints/coping cracking. Rounding/chipping of coping edges
397 to 399	Repair	0 to 1	-	Concrete repair to coping
395 to 400	Brickwork / Masonry	0.5 to 1.8	-	Fair - Slight brick displacement created by movement. Mortar loss from joints and joint/brick cracking
395 to 400	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
398	Mooring Chain	1 to 1.8	-	Fixed within recess. Good condition, localised surface corrosion
395 to 400	Concrete	0 (coping)	-	Fair - Rust staining, localised spalling, lengthy cracking and some movement or extensive honeycombing
395 to 400	Metalwork	0 (coping)	-	Rail track. Fair condition, extensive corrosion with minor thickness loss

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
395 to 397, 399 to 400	Coping	Loss of Coping	0 to 0.5	Loss/fracturing to edge of coping stone but block remains sound. Likely linked to impact damage
395 to 397, 399 to 400	Coping	Loss of Mortar	0.2 to 0.5	Mortar loss to coping stones extends below surface and has the potential to weaken/loosen surrounding bricks/blocks
397 to 399	Repair	Flaking / Spalling	0 to 1	Minor spalling or surface concrete most likely due to impact damage or early onset of reinforcement corrosion
395 to 400	Brickwork / Masonry	Loss of Mortar	0.2 to 1	Mortar loss to bricks/blocks is significant resulting in loosening of bricks/blocks
399 to 400	Brickwork / Masonry	Loss of Bricks/Blocks	0.3 to 1	Loss of small group of bricks/blocks. Defects are cosmetic but have the potential to affect the walls integrity

Figure A84a - Bramley Moore: Coping Chainage 395 to 400m

A85 Chainage 400 to 405m

Figure A85 - Bramley Moore: Chainage 400 to 405m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	x
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork	x	Steps	
Cobbles		Miscellaneous		Timber	
Concrete	x	Mooring Bollard	x	Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**3**	**Fair**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
400 to 400.5	Coping	0 to 0.3	-	Fair - Slight coping displacement created by movement. Mortar loss from joints and joints/coping cracking. Rounding/chipping of coping edges
400.5 to 401	Repair	0 to 0.3	-	Concrete repair to coping
401 to 402, 403 to 405	Coping	0 to 0.5	-	Fair - Slight coping displacement created by movement. Mortar loss from joints and joints/coping cracking. Rounding/chipping of coping edges
402 to 403	Repair	0 to 1.5	-	Concrete repair to brickwork/blockwork
400 to 402, 403 to 405	Brickwork / Masonry	0.3 to 1.8	-	Fair - Slight brick displacement created by movement. Mortar loss from joints and joint/brick cracking
400 to 405	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
400 to 405	Concrete	0 (coping)	-	Good - Structurally sound but with minor cracks and localised honeycombing/flaking with no significant defects
400 to 405	Metalwork	0 (coping)	-	Rail track. Fair condition, extensive corrosion with minor thickness loss
402.5	Mooring Bollard	0 (coping)	H = 0.8m	T-Shaped bollard embedded into coping. Good condition, localised surface corrosion

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
400 to 402	Coping	Loss of Coping	0 to 0.4	Loss/fracturing to edge of coping stone but block remains sound. Likely linked to impact damage
400 to 402, 403 to 405	Brickwork / Masonry	Loss of Mortar	0.3 to 0.8	Mortar loss to bricks/blocks is significant resulting in loosening of bricks/blocks

Figure A85a - Bramley Moore: Coping Chainage 400 to 405m

A86 Chainage 405 to 410m

Figure A86 - Bramley Moore: Chainage 405 to 410m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork	x	Steps	
Cobbles		Miscellaneous		Timber	
Concrete	x	Mooring Bollard		Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	x
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**3**	**Fair**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
405 to 410	Coping	0 to 0.5	-	Fair - Slight coping displacement created by movement. Mortar loss from joints and joints/coping cracking. Rounding/chipping of coping edges
405 to 410	Brickwork / Masonry	0.5 to 1.8	-	Fair - Slight brick displacement created by movement. Mortar loss from joints and joint/brick cracking
405 to 410	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
409	Weephole / Outfall	0.7	D = 0.2m	Rectangular weephole/outfall. Fair condition, some deterioration of material surrounding weephole/outfall. Any fixings have minor damage
405 to 410	Concrete	0 (coping)	-	Good - Structurally sound but with minor cracks and localised honeycombing/flaking with no significant defects
405 to 410	Metalwork	0 (coping)	-	Rail track. Fair condition, extensive corrosion with minor thickness loss

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
405 to 410	Coping	Loss of Mortar	0.3 to 0.5	Mortar loss to coping stones extends below surface and has the potential to weaken/loosen surrounding bricks/blocks
405 to 410	Brickwork / Masonry	Loss of Mortar	0.3 to 0.9	Mortar loss to bricks/blocks is significant resulting in loosening of bricks/blocks
405 to 410	Brickwork / Masonry	Loss of Bricks/Blocks	0.3 to 0.6	Loss of small group of bricks/blocks. Defects are cosmetic but have the potential to affect the walls integrity

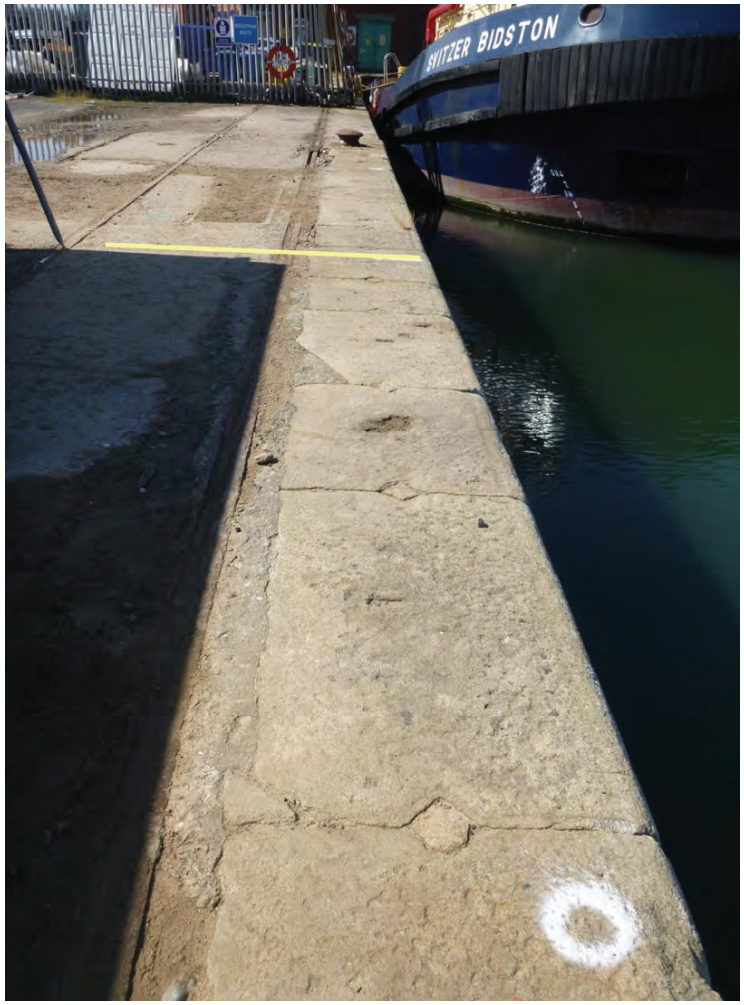

Figure A86a - Bramley Moore: Coping Chainage 405 to 410m

A87 Chainage 410 to 415m

Figure A87 - Bramley Moore: Chainage 410 to 415m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole	x	Repair	
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork	x	Steps	
Cobbles		Miscellaneous		Timber	
Concrete	x	Mooring Bollard		Vegetation	
Coping	x	Mooring Chain	x	Weephole / Outfall	x
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**3**	**Fair**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
410 to 415	Coping	0 to 0.5	-	Fair - Slight coping displacement created by movement. Mortar loss from joints and joints/coping cracking. Rounding/chipping of coping edges
410 to 415	Brickwork / Masonry	0.5 to 1.8	-	Fair - Slight brick displacement created by movement. Mortar loss from joints and joint/brick cracking
410 to 415	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
411.5	Weephole / Outfall	0.7	D = 0.1m	Circular weephole/outfall. Good condition, some degradation but fully operable
413	Mooring Chain	0.7 to 1.8	-	Fixed within recess. Good condition, localised surface corrosion
410 to 415	Concrete	0 (coping)	-	Good - Structurally sound but with minor cracks and localised honeycombing/flaking with no significant defects
410 to 415	Metalwork	0 (coping)	-	Rail track. Fair condition, extensive corrosion with minor thickness loss
412.5 to 414	Manhole	0 (coping)	1.5 x 0.8m	Fair - Extensive corrosion and minor damage but manhole housing remains sound. Some deterioration to material surrounding manhole

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
410 to 415	Coping	Loss of Mortar	0.3 to 0.5	Mortar loss to coping stones extends below surface and has the potential to weaken/loosen surrounding bricks/blocks
410 to 415	Brickwork / Masonry	Loss of Mortar	0.3 to 0.8	Mortar loss to bricks/blocks is significant resulting in loosening of bricks/blocks
410 to 415	Brickwork / Masonry	Loss of Bricks/Blocks	0.3 to 0.6	Loss of small group of bricks/blocks. Defects are cosmetic but have the potential to affect the walls integrity
410 to 415	Concrete	Flaking / Spalling	0 (coping)	Minor spalling or surface concrete most likely due to impact damage or early onset of reinforcement corrosion

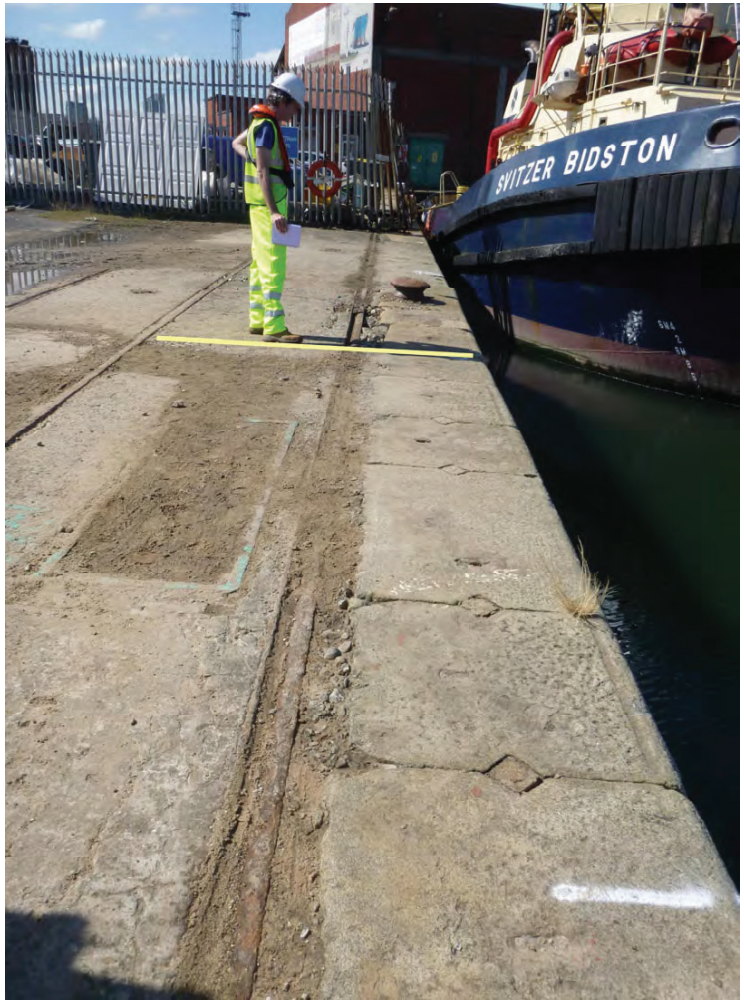

Figure A87a - Bramley Moore: Coping Chainage 410 to 415m

A88 Chainage 415 to 420m

Figure A88 - Bramley Moore: Chainage 415 to 420m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork		Steps	
Cobbles		Miscellaneous	x	Timber	
Concrete	x	Mooring Bollard	x	Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	x
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**4**	**Poor**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
415 to 420	Coping	0 to 0.5	-	Poor - Substantial cracking and damage created by movement. Extensive coping damage and/or misalignment/missing of blocks.
415 to 420	Brickwork / Masonry	0.5 to 1.8	-	Poor - Substantial cracking and damage created by movement. Missing bricks, extensive spalling and/or misalignment of bricks.
415 to 420	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
417	Weephole / Outfall	0.5 to 0.7	D = 0.2m	Rectangular weephole/outfall. Fair condition, some deterioration of material surrounding weephole/outfall. Any fixings have minor damage
418.5	Weephole / Outfall	0.4 to 1.8	D = 0.35m	Piped outfall. Poor condtion, loss of material surrounding outfall. Significant corrosion and associated loss of outfall elements
415 to 420	Metalwork	0 (coping)	-	Rail track. Fair condition, extensive corrosion with minor thickness loss
415 to 420	Concrete	0 (coping)	-	Fair - Rust staining, localised spalling, lengthy cracking and some movement or extensive honeycombing
417.5	Mooring Bollard	0 (coping)	H = 0.2m	Short pillar bollard. Good condition, localised surface corrosion

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
415 to 420	Coping	Loss of Mortar	0.3 to 0.5	Mortar loss to coping stones is significant resulting in loosening of bricks/blocks
415 to 420	Coping	Loss of Coping	0 to 0.5	Loss/fracturing to edge of coping stone but block remains sound. Likely linked to impact damage
415 to 420	Brickwork / Masonry	Loss of Mortar	0.5 to 1.2	Mortar loss to bricks/blocks is significant resulting in loosening of bricks/blocks
417 to 420	Brickwork / Masonry	Loss of Bricks/Blocks	0.5 to 0.9	Full brick/block loss leading to exposure of material behind the wall. Progressive failure of wall through material washout likely
415 to 417	Concrete	Cracking	0 (coping)	Significant cracking of concrete. Indicates wall movement/settlement
416 to 418	Concrete	Flaking / Spalling	0 (coping)	Minor spalling or surface concrete most likely due to impact damage or early onset of reinforcement corrosion

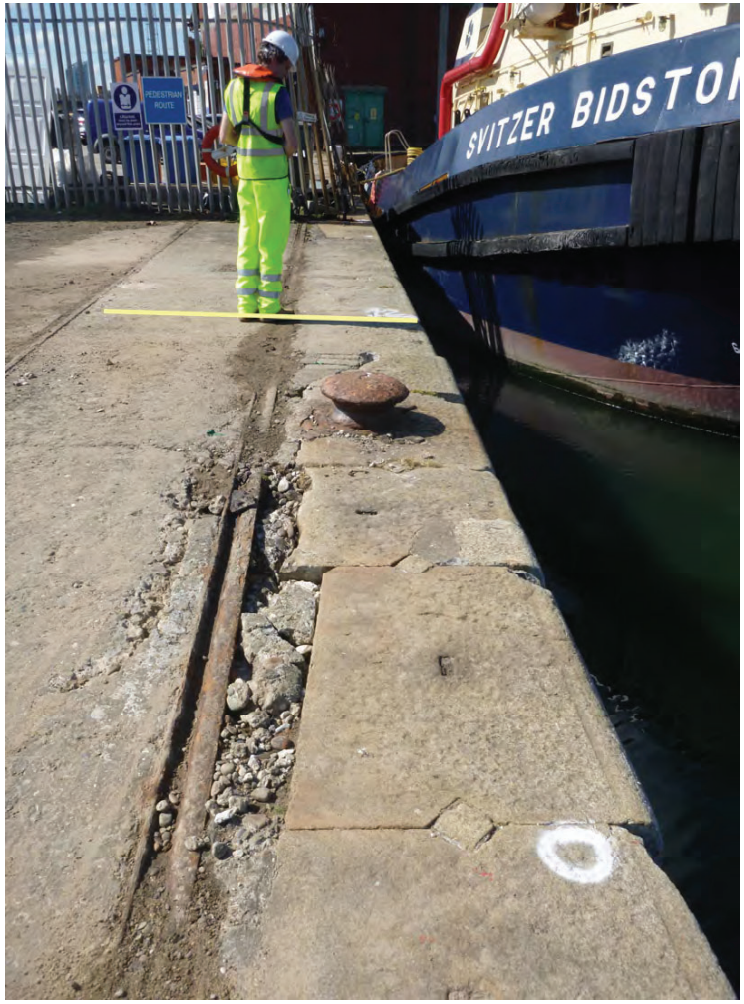

Figure A88a - Bramley Moore: Coping Chainage 415 to 420m

A89 Chainage 420 to 425m

Figure A89 - Bramley Moore: Chainage 420 to 425m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor	x	Lock Gate		Recess	
Boat		Manhole		Repair	
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork	x	Steps	
Cobbles		Miscellaneous		Timber	
Concrete	x	Mooring Bollard		Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**3**	**Fair**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
420 to 425	Coping	0 to 0.5	-	Fair - Slight coping displacement created by movement. Mortar loss from joints and joints/coping cracking. Rounding/chipping of coping edges
420 to 425	Brickwork / Masonry	0.5 to 1.8	-	Fair - Slight brick displacement created by movement. Mortar loss from joints and joint/brick cracking
420 to 425	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
420 and 422	Anchor	0.2 to 0.5	0.3 x 0.3m	Good - Localised surface corrosion with slight loss of thickness. No physical deformation or movement of anchor ties/plates
420 to 425	Concrete	0 (coping)	-	Good - Structurally sound but with minor cracks and localised honeycombing/flaking with no significant defects
420 to 425	Metalwork	0 (coping)	-	Rail track. Fair condition, extensive corrosion with minor thickness loss

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
415 to 420	Coping	Loss of Mortar	0.3 to 0.5	Mortar loss to coping stones extends below surface and has the potential to weaken/loosen surrounding bricks/blocks
415 to 420	Brickwork / Masonry	Loss of Mortar	0.3 to 1	Mortar loss to bricks/blocks is significant resulting in loosening of bricks/blocks
418	Coping	Loss of Coping	0 to 0.3	Loss/fracturing to edge of coping stone but block remains sound. Likely linked to impact damage
418 and 419	Brickwork / Masonry	Loss of Bricks/Blocks	0.5 and 0.9	Loss of large group of bricks/blocks. Defects are linked to wall movements and/or overloading of the wall

Figure A89a - Bramley Moore: Coping Chainage 420 to 425m

A90 Chainage 425 to 430m

Figure A90 - Bramley Moore: Chainage 425 to 430m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	x
Boat		Manhole		Repair	
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork	x	Steps	
Cobbles		Miscellaneous		Timber	
Concrete	x	Mooring Bollard		Vegetation	
Coping	x	Mooring Chain	x	Weephole / Outfall	
Fender		Mooring Ring		-	
Hand railing / Fence	x	Obstruction	x	-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**3**	**Fair**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
425 to 430	Coping	0 to 0.5	-	Good - Minor cracks created by minor movement. Surface defects in coping or limited mortar loss from joints
425 to 430	Brickwork / Masonry	0.5 to 1.8	-	Fair - Slight brick displacement created by movement. Mortar loss from joints and joint/brick cracking
425 to 430	Marine Growth	1.5 to 1.8	-	Minimal growth. Features remain visible
428.5	Mooring Chain	0.5 to 1.8	-	Fixed within recess. Fair condition, extensive corrosion with minor thickness loss and/or minor damage to links
425 to 426.5	Concrete	0 (coping)	-	Good - Structurally sound but with minor cracks and localised honeycombing/flaking with no significant defects
425 to 426.5	Metalwork	0 (coping)	-	Rail track. Fair condition, extensive corrosion with minor thickness loss
426.5	Hand railing / Fence	0 (coping)	H = 2.2m	Fair - Extensive corrosion with minor loss of thickness. Some damage, deformation or movement to posts or rails
426.5 to 430	Obstruction	0 (coping)	-	Significant obstruction. Features obscured. Condition cannot be assessed

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
425 to 430	Coping	Loss of Mortar	0.3 to 0.5	Mortar loss to coping stone is limited to the surface. Defects are cosmetic only
425 to 430	Brickwork / Masonry	Loss of Mortar	0.3 to 1	Mortar loss to bricks/blocks extends below surface and has the potential to weaken/loosen surrounding bricks/blocks
427.5	Brickwork / Masonry	Loss of Bricks/Blocks	0.5 to 1	Loss of small group of bricks/blocks. Defects are cosmetic but have the potential to affect the walls integrity
428.5	Brickwork / Masonry	Impact Damage	0.5 to 1	Localised impact damage resulting in chipping/fragmentation of wall materials

Figure A90a - Bramley Moore: Coping Chainage 425 to 430m

Figure 2.4.90a - Bramley Moore: Coping Chainage 427 to 430m

A91 Chainage 430 to 435m

Figure A91 - Bramley Moore: Chainage 430 to 435m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	x
Brickwork / Masonry	x	Marine Growth		Sheet Piling	
Chain Post / Fencing		Metalwork		Steps	
Cobbles		Miscellaneous		Timber	
Concrete	x	Mooring Bollard	x	Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	x
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction	x	-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**2**	**Good**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
430 to 443, 444 to 445	Coping	0 to 0.5	-	Good - Minor cracks created by minor movement. Surface defects in coping or limited mortar loss from joints
430 to 443, 444 to 445	Brickwork / Masonry	0.5 to 1.8	-	Good - Minor cracks created by minor movement. Surface defects in bricks or limited mortar loss from joints
443 to 444	Repair	0 to 1.6	-	Concrete repair to brickwork/blockwork
433.5	Weephole / Outfall	0.8	D = 0.15m	Circular weephole/outfall. Good condition, some degradation but fully operable
430 to 434	Obstruction	0 (coping)	-	Significant obstruction. Features obscured. Condition cannot be assessed
433	Mooring Bollard	0 (coping)	H = 0.8m	T-Shaped bollard embedded into coping. Good condition, localised surface corrosion
434 to 435	Concrete	0 (coping)	-	Very Good - Hair-line cracks and small surface cavities may be apparent

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
430 to 443, 444 to 445	Coping	Loss of Mortar	0.3 to 0.3	Mortar loss to coping stone is limited to the surface. Defects are cosmetic only
430 to 443, 444 to 445	Brickwork / Masonry	Loss of Mortar	0.3 to 1	Mortar loss to bricks/blocks extends below surface and has the potential to weaken/loosen surrounding bricks/blocks
432 to 434	Coping	Loss of Bricks/Blocks	0.2	Holes in blockwork, likely left by historic fixings. Defects are cosmetic but have the potential to affect the walls integrity.
434	Brickwork / Masonry	Loss of Bricks/Blocks	0.5	Loss of small group of bricks/blocks. Defects are cosmetic but have the potential to affect the walls integrity

Figure A91a - Bramley Moore: Coping Chainage 430 to 435m

A92 Chainage 435 to 440m

Figure A92 - Bramley Moore: Chainage 435 to 440m

Inspection Date & Time	12th -13th July 2017
Weather Conditions	Warm & Sunny
Water Conditions	Impounded Water
Wall Height (m) [Crest Level / Water Level mOD]	1.8m [+6.6mOD / +4.8mOD]

Features

Features	Present	Features	Present	Features	Present
Anchor		Lock Gate		Recess	
Boat		Manhole		Repair	
Brickwork / Masonry	x	Marine Growth	x	Sheet Piling	
Chain Post / Fencing		Metalwork	x	Steps	
Cobbles		Miscellaneous		Timber	
Concrete	x	Mooring Bollard		Vegetation	
Coping	x	Mooring Chain		Weephole / Outfall	
Fender		Mooring Ring		-	
Hand railing / Fence		Obstruction		-	
Ladder		Opening / Vault		-	

Overall Condition Rating

Overall Assessment	**2**	**Good**

Features / Condition

Chainage (m)	Feature	Level (m from top)	Dimensions (m)	Description
435 to 440	Coping	0 to 0.5	-	Good - Minor cracks created by minor movement. Surface defects in coping or limited mortar loss from joints
435 to 440	Brickwork / Masonry	0.5 to 1.8	-	Good - Minor cracks created by minor movement. Surface defects in bricks or limited mortar loss from joints
435 to 440	Marine Growth	1.5 to 1.8	-	Minor growth. Features partially obscured
435 to 439	Metalwork	0 (coping)	-	Rail track. Fair condition, extensive corrosion with minor thickness loss
435 to 440	Concrete	0 (coping)	-	Very Good - Hair-line cracks and small surface cavities may be apparent

Defects

Chainage (m)	Feature	Defect	Level (m from top)	Description
435 to 440	Coping	Loss of Mortar	0.3 to 0.5	Mortar loss to coping stone is limited to the surface. Defects are cosmetic only
435 to 440	Brickwork / Masonry	Loss of Mortar	0.3 to 1.2	Mortar loss to bricks/blocks extends below surface and has the potential to weaken/loosen surrounding bricks/blocks
439.5	Brickwork / Masonry	Loss of Bricks/Blocks	1	Loss of small group of bricks/blocks. Defects are cosmetic but have the potential to affect the walls integrity