

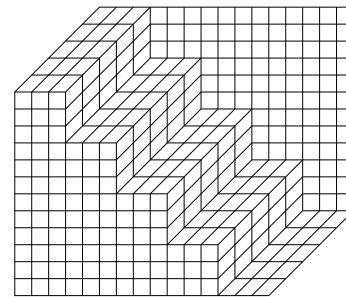
hayle harbour :: regeneration South Quay

Development Proposal for South Quay/Foundry Yard Hayle Harbour

December 2010



Harbour Wall Condition Survey



Buro Happold

027802 Hayle Harbour, South

Quay/Foundry Yard

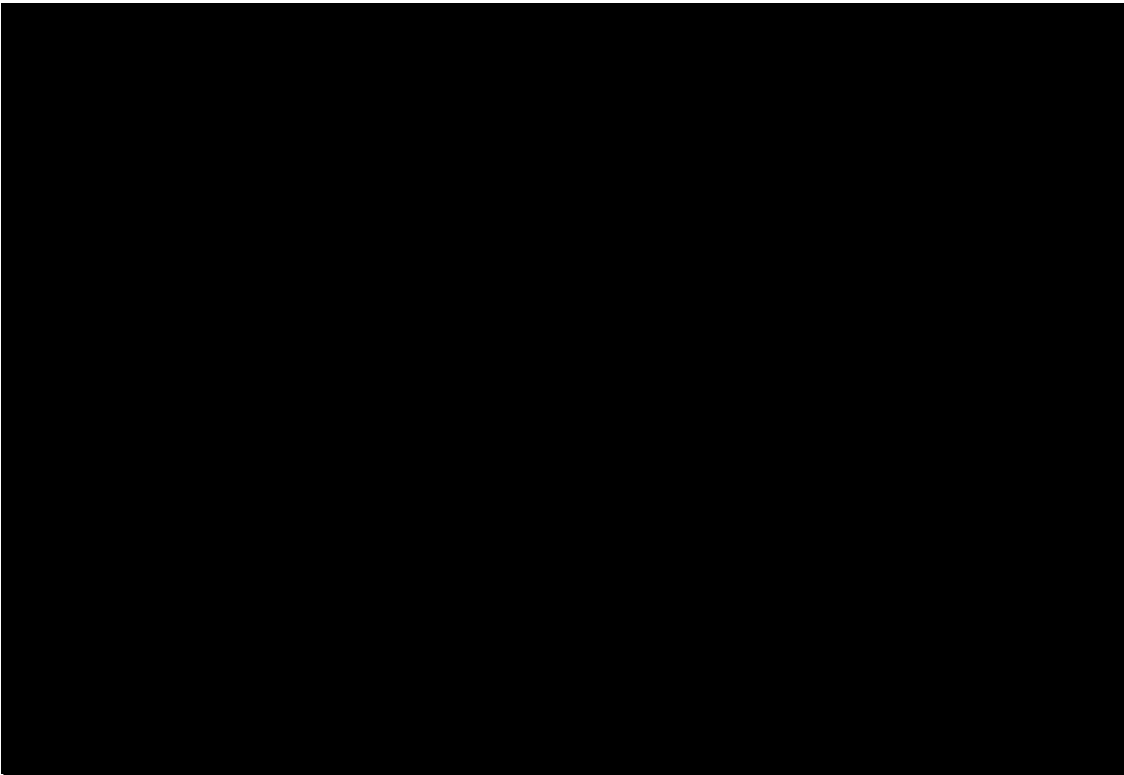
Extract from Harbour Wall Condition Survey

Job no 027802 December 2010

Revision 01

| Revision | Description | Issued by | Date | Checked |
|----------|----------------|-------------|-----------|----------|
| 00 | Planning Issue | T Smith | July 2010 | C Murray |
| 01 | Revised Final | P Wilkinson | Dec 2010 | ASP |

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Contents

| | | |
|----------|---------------------------------|-----------|
| 1 | Introduction | 5 |
| 1.1 | Brief | 5 |
| 1.2 | Using this report | 5 |
| 2 | South Quay | 7 |
| 3 | Pull Out Orientation Map | 72 |

1 Introduction

1.1 Brief

This report is an extract of the Hayle Harbour Wall Survey Rev 02 dated June 2010 as incorporated within the S106 Agreement for the Outline Planning Application for the Redevelopment of Hayle Harbour.

1.2 Using this report

The location of each surveyed section of wall can be easily identified by referring to the pull out orientation map at the back of this report (Section 5).

2 South Quay



Panaramic photograph of the northeast length of South Quay



Collapsed section of wall between chainages 230 to 275m (see Listed Building Consent)



Collapsed wall at the northern end of South Quay (chainage 480 – 490m)

South Quay wall collapse (chainage 480 – 490m) 2004 – Now repaired (refer Page 55 & 56)



2004



2009

Location: SOUTH QUAY – Chainage 0 – 10m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--------------|----------------|--------------|-----------------|--|------|--|-----------|
| | Very Poor | 2004 2009 | Poor 0-3.2m | 2004 2009 | Fair 3.2-10m | | Good | | Very Good |
|--|-----------|--------------|----------------|--------------|-----------------|--|------|--|-----------|

General:

Inspection Date: 08/12/04
Inspection Time: 1055

Weather Conditions: Mild/Cloudy
Tidal Conditions: HW +3.00
Average Height of Section: 3.1m

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------------|--|
| 8.50 | | 2.13 - 3.29 | Dimensions of rectangular flap valve only seen in closed position [1.65 wide x 1.16 deep flap valve] no change |
| 6.10 | | - | SWEB double covers 1.5 from wall edge |
| 7.90 | | - | Centre-line rusted handrails above sluice no change |
| 7.90 | | - | Centre-line top hung flap gate no change |
| 0-2.60 | | - | Diagonal crack extending to surface of free standing wall, 2.34m high above general quay level no change but less vegetation on wall section |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|--------|------------------------------------|
| 9.5m | | 0.3 | Vertical crack (minor) no change |
| 2.0-3.2m | | 0-2.05 | Very open diagonal crack no change |
| 0.5m | | | Block missing at base not visible |



Location: SOUTH QUAY – Chainage 10 – 20m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|--|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | | Good | | Very Good |
|--|-----------|--|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy

Inspection Date: 08/12/04

Tidal Conditions: HW +2.42

Inspection Time: 1040

Average Height of Section: 3.8m

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|-------------|
| | | | |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|--------------|---|
| 10 - 13 | | | Open joints immediately below coping stones |
| 16 - 20 | | | Open joints immediately below coping stones |
| 13 | | 0 – 1.10 | Vertical crack |
| 13 | | 2.30 & below | Random open joints |



Location: SOUTH QUAY – Chainage 20 – 30m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|--|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | | Good | | Very Good |
|--|-----------|--|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy

Inspection Date: 08/12/04

Tidal Conditions: LW +2.32

Inspection Time: 1030

Average Height of Section: 4.5

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|---|
| 23 | | 3.45 | Invert level of large culvert approx 1.5m dia. Concrete frame & penstock & screen. Penstock appears always to be in raised position. Sheet piled sill extends 2.8m outwards from wall 4.5 O/A width. |
| 23 | | | Galvanised handrails fixed to top edge of quay, 2.1m wide |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|--------------|--|
| 26.5-30 | | 1.90 & below | Randomly spaced open joints 1.90 to bottom |
| 29.50 | | | Thin rusty handrails and remains of spindle is badly bent. |



Location: SOUTH QUAY – Chainage 30 – 40m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|--|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | | Good | | Very Good |
|--|-----------|--|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy

Inspection Date: 08/12/04

Tidal Conditions: LW +2.39

Inspection Time: 1037

Average Height of Section: 5.0

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|--------------------------------------|
| 30m | | 4.5m | 225 pipe with penstock open (rusted) |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|-------|---------------------------------------|
| 34.5m | | 0.5m | Missing block possibly drainage hole |
| 30 – 40m | | | Randomly spaced open joints to bottom |



2004



2009

Location: SOUTH QUAY – Chainage 40 – 50m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |
|--|-----------|--|------|------|------|------|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW +2.37 LW

Inspection Time: 1035 1146

Average Height of Section: 5.0

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|---|
| 48.50 | | | Galvanised Mild Steel ladder New ladder with hand grasps at top |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|-------|---|
| 59.5m | | 0.40 | Missing block possibly for drainage No change |
| 40 – 50m | | 2.30 | Generally random open joints below this level No change |
| | | | Boat in way |



2004



2009

Location: SOUTH QUAY – Chainage 50 – 60m

| Overall Grading: | | | | | | | | | |
|------------------|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Poor |

| | | | | | |
|------------------|--------------------------|----------------------------|--|--------------------------------------|--|
| General: | | Weather Conditions: | | Mild + Cloudy Mild and Cloudy | |
| Inspection Date: | 08/12/04 08/14/09 | Tidal Conditions: | | LW +2.17 LW | |
| Inspection Time: | 1015 1146 | Average Height of Section: | | 5.1 | |

| Features: | | | |
|-----------|------|-------|--|
| Chainage | Item | Depth | Description |
| 50.20 | | | Aluminium ladder (temporary) New ladder with hand grasps at top |

| Condition Defects: | | | |
|--------------------|------|-------------|---|
| Chainage | Item | Depth | Description |
| 56.5 | | 0.3,1.2,1.6 | Missing blocks immediately below coping & open joints No change |
| 56 – 60 | | 0 – 2.30 | Generally open joints and missing blocks Boats in view |



2004



2009

Location: SOUTH QUAY – Chainage 60 – 70m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Poor |
|--|-----------|--|------|------|------|------|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW +3.02 LW

Inspection Time: 1100 1146

Average Height of Section: 5.10

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|---|
| 61.60 | | | Mild Steel circular runged ladder, made of old scaffold tube New ladder with hand grasps at top |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|--------------|--|
| 60 - 70 | | | Open joint generally under coping stones No change |
| 63 | | 2.30 | Missing block No change |
| | | around 2.90 | Seaweed line No change |
| 60 - 70 | | 1.30 & below | Generally open joints No change |
| | | | Boat in view |



2004



2009

Location: SOUTH QUAY – Chainage 70 – 80m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|--------------|------|--|------|--|-----------|
| | Very Poor | | Poor | 2004 2009 | Fair | | Good | | Very Poor |
|--|-----------|--|------|--------------|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW +3.08 LW

Inspection Time: 1106 1146

Average Height of Section: 5.1

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|--|
| 74 | | 0.55 | 100m diameter pipe No change |
| 73 | | 1.90 | Rectangular block missing possibly old drainage hole No change |
| 72.70 74 | | | Mild steel scaffold tube type ladder New ladder with hand grips at top |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|------------|--|
| 73-79 | | 0.3 | Open joints immediately under coping No change |
| 71 - 76 | | top - 1.0 | More recent repairs in this area No change |
| 76-787 | | 0-1.6 | Randomly spaced open joints No change |
| 70-80 | | Around 3.0 | Seaweed line |
| | | | Boat in view |



2004



2009

Location: SOUTH QUAY – Chainage 80 – 90m

| Overall Grading: | | | | | | | | | |
|------------------|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |

| | | | | | |
|------------------|-------------------|----------------------------|--|-------------------------------|--|
| General: | | Weather Conditions: | | Mild + Cloudy Mild and cloudy | |
| Inspection Date: | 08/12/04 08/04/09 | Tidal Conditions: | | LW+2.12 LW | |
| Inspection Time: | 1010 1146 | Average Height of Section: | | 5.0 | |

| Features: | | | |
|-----------|------|-------|--|
| Chainage | Item | Depth | Description |
| 85 | | | General notes: Some granite coping stones have metal braces across adjacent stones. Generally iron stakes or similar means are used for tying up boats. Only old bollards recorded. Aluminium temporary ladder New ladder with hand grips on top. |

| Condition Defects: | | | |
|--------------------|------|------------|--|
| Chainage | Item | Depth | Description |
| | | | Generally good section with randomly spaced open joints No change Boat in way Sea weed line |
| | | Around 3.0 | |



2004



2009

Location: SOUTH QUAY – Chainage 90 – 100m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |
|--|-----------|--|------|------|------|------|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Mild and Cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW +3.17 LW

Inspection Time: 1115 1146

Average Height of Section: 5.0

Features:

| Chainage | Item | Depth | Description |
|----------|------|---------|--------------|
| 95 | | Surface | Mooring Ring |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|---------|---|
| 90 - 100 | | 0 – 1.0 | Vegetation at isolated sections along wall No change |
| 99 - 100 | | | Open joints immediately below coping blocks No change |
| | | 3.0 | Seaweed line |
| | | | Boat in way |



2004



2009

Location: SOUTH QUAY – Chainage 100 – 110m

| | | | | | | | | | |
|------------------|-----------|--|------|--------------|------|--|------|--|-----------|
| Overall Grading: | | | | | | | | | |
| | Very Poor | | Poor | 2004 2009 | Fair | | Good | | Very Good |

| | | | |
|------------------|-------------------|----------------------------|----------------------------------|
| General: | | Weather Conditions: | Mild + Cloudy Mild and Cloudy |
| Inspection Date: | 08/12/04 08/04/09 | Tidal Conditions: | LW +3.27 LW |
| Inspection Time: | 1125 1146 | Average Height of Section: | 5.0 |

| Features: | | | |
|-----------|------|-------|---|
| Chainage | Item | Depth | Description |
| 105.50 | | 2.1 | Iron strengthener at face of wall (230 wide) No change |
| 101.50 | | | Mild steel ladder with handrails above quay level (held by iron stake) No change |

| Condition Defects: | | | |
|--------------------|------|---------|---|
| Chainage | Item | Depth | Description |
| 102 | | 1.6 | Block missing No change |
| 102-105 | | 1.6-2.8 | Open joints No change |
| 108 | | 1.0 | Missing block No change |
| 105 | | 0.3 | Missing block No change |
| 109.5 - 110 | | 0.4 | Missing blocks below coping No change |
| 100-110 | | 0-1.0 | Vegetation growth in joints (present in 2004) |
| | | 4.0 | Seaweed line |



2004



2009

Location: SOUTH QUAY – Chainage 110 – 120m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |
|--|-----------|--|------|------|------|------|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Bright and cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW + 3.30 LW

Inspection Time: 1128 1145

Average Height of Section: 4.9

Features:

| Chainage | Item | Depth | Description |
|-------------|------|-------|--|
| 112 | | | Aluminium ladder with handrails (ladder present in 2004) |
| 110.5 & 113 | | | Anchor Chain |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 110-110.5 | | 0.4 | Missing blocks below coping No change |
| 112-120 | | 0-0.5 | Vegetation below coping (present in 2004) A few random open joints on this section No change |
| 110-120 | | 3.5 | Boat in way Seaweed line |



2004



2009

Location: SOUTH QUAY – Chainage 120 – 130m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|--------------|------|--|------|--|-----------|
| | Very Poor | | Poor | 2004 2009 | Fair | | Good | | Very Good |
|--|-----------|--|------|--------------|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Mild and Cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW + 2.07 LW

Inspection Time: 1005 1145

Average Height of Section: 5.0

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|--|
| 121 | | 0.4 | 150mm diameter pipe No change |
| 126 | | | Rusted mild steel ladder New ladder with hand supports at top. |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|---------|--|
| 120 - 130 | | 0 – 1.4 | Top section of wall more recent repairs, but still some open joints No change |
| | | 3.0 | Seaweed line |
| 124 & 125 | | | Particular vertical cracks No obvious vertical cracks. Both vertical and horizontal visible. |
| 123 | | 1.60 | Large block missing No change |



2004



2009

Location: SOUTH QUAY – Chainage 130 – 140m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |
|--|-----------|--|------|------|------|------|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Mild and Cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW + 1.57 LW

Inspection Time: 0955 1145

Average Height of Section: 5.1

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|--|
| 136.5 | | | Mild steel ladder very wobbly, unsafe. New ladder with handrails at top. |
| 135 | | | Boat in view |

Condition Defects:

| Chainage | Item | Depth | Description |
|--------------------|------|-------|---|
| 130 - 135 | | 1.3 | Semi open joints No change |
| 135 - 138 | | 1.3 | Rendered repaired section No change |
| 130.5, 131.5 & 135 | | 0.4 | Missing block with vegetation No change |
| 130 - 140 | | | Random open joints throughout whole section No change |
| | | 3.2 | Seaweed line No change |



2004



2009

Location: SOUTH QUAY – Chainage 140 – 150m

| Overall Grading: | | | | | | | | | |
|------------------|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |

| | | | | | |
|------------------|--|---------------------|--|----------------------------|--|
| General: | | Weather Conditions: | | Mild + Cloudy | |
| | | | | Dry + Cloudy | |
| Inspection Date: | | 08/12/04 08/04/09 | | Tidal Conditions: | |
| | | | | LW + 3.34 LW | |
| Inspection Time: | | 1132 1145 | | Average Height of Section: | |
| | | | | 5.1 | |

| Features: | | | |
|-----------|------|-------|-------------------------------|
| Chainage | Item | Depth | Description |
| 147.5 | | 0.55 | 150mm diameter pipe No change |

| Condition Defects: | | | |
|--------------------|------|-------------|---|
| Chainage | Item | Depth | Description |
| | | | Generally good wall section for age No change |
| | | | Randomly spaced open joints No change |
| | | | Vegetation just below top of wall No change |
| | | Around 4.0m | Sea weed line |



2004



2009

Location: SOUTH QUAY – Chainage 150 – 160m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |
|--|-----------|--|------|------|------|------|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Dry + Cloudy

Inspection Date: 08/12/04 08/04/07

Tidal Conditions: LW + 3.37 LW

Inspection Time: 1135 1145

Average Height of Section: 5.0

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|---|
| 159.5 | | 0.20 | 150mm diameter pipe No change |
| 151.7 | | | Rusted galvanised mild steel ladder, very movable, in poor state New ladder, handrails at top |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|------------|---|
| | | | Minor randomly spaced open joints no change |
| | | Around 3.0 | Seaweed Line |
| 156 - 158 | | 1.3 | Deeper open joints. |
| 152-158 | | 0-0.5 | Vegetation from joints below coping |



2004



2009

Location: SOUTH QUAY – Chainage 160 – 170m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |
|--|-----------|--|------|------|------|------|------|--|-----------|

General:

Weather Conditions:

Mild + Cloudy

Dry + Cloudy

Inspection Date:

08/12/04 08/04/09

Tidal Conditions:

LW + 3.42 LW

Inspection Time:

1140 1145

Average Height of Section:

5.2

Features:

| Chainage | Item | Depth | Description |
|-----------|------|---------|--|
| 166 165.5 | | | Steel scaffold type ladder New ladder, handrails at top. |
| 165 | | Surface | Large rock offset from wall |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|------------|--|
| 160 - 170 | | 0 – 1.70 | Vegetation just below top of wall, recent patching along upper section No change |
| | | Around 3.5 | Seaweed growth line |
| 161 - 162 | | 0 – 1.70 | Vertical open joint No change |
| | | | Boat in way No longer present |



2004



2009

Location: SOUTH QUAY – Chainage 170 – 180m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Dry + Cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW + 3.48 LW

Inspection Time: 1146 1144

Average Height of Section: 5.2

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|--|
| 177 | | 0.6 | 100mm diameter pipe No change |
| 173 | | | Scaffold type ladder, wobbly, with lifting davit alongside made up of scaffold tube - poor condition New ladder with handrails at top. No davit. |
| 177 | | | Centreline of sunken area behind granite coping stones 2.8m long x 1m wide Sunken area indicated by puddle behind coping stones. Area unclear. |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|------------|---|
| 170 - 180 | | 1.70 | Recently repointed on upper section No change |
| | | | Vegetation needs clearing mainly under coping No change |
| | | Around 3.0 | Seaweed growth line |
| | | | Boat in View |



2004



2009

Location: SOUTH QUAY – Chainage 180 – 190m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Dry + Cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW + 0.357 LW

Inspection Time: 1155 1144

Average Height of Section: 5.1

Features:

| Chainage | Item | Depth | Description |
|-----------|-----------------|-------|---|
| 160 | Surface feature | | 100 mm diameter pipe No change |
| 181 - 190 | | | Generally sunken area over this section (180-190) Unclear |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------|--|
| 189 - 190 | | 1.10 | Open joints only between and under coping stones. Vegetation see image. No change Pointing required below coping stones No change Masonry missing possibly a pipe, present 2004 Section generally in good condition. |



2004



2009

Location: SOUTH QUAY – Chainage 190 – 200m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Dry + Cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW + 3.58 LW

Inspection Time: 1156 1144

Average Height of Section: 5.1

Features:

| Chainage | Item | Depth | Description |
|-----------|------|---------|---|
| 190 - 200 | | | Generally sunken area behind coping stones typically 2 - 3m wide Unclear from picture |
| 190.0 | | | Mild steel ladder (painted red) New steel ladder with handrails. |
| 191.0 | | Surface | Large rock offset from wall |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|------------|---|
| 190 - 200 | | 0 – 1.10 | Open joints No change |
| | | Around 3.5 | Seaweed Line |
| | | | Vegetation and open joints immediately below coping No change, repointing needed. |
| | | | Boat in way |



2004



2009

Location: SOUTH QUAY – Chainage 200 – 210m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Dry + Cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW +4.04 LW

Inspection Time: 1202 1144

Average Height of Section: 5.1

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 203 201 | | | Galvanised mild steel ladder New ladder with hand rails at top. |
| 200 - 210 | | | Generally depressed / sunken area behind coping stones, typically 2m wide, max. 3m Unclear. |

Condition Defects:

| Chainage | Item | Depth | Description |
|-------------|----------|-------|--|
| 209.5 - 210 | 0.7 -bed | | Coping block missing No change Vegetation (see image) No change. Seaweed growth line from around 4.0m. Open joints below coping stone level No change, repointing needed. Boat in the way No change |



2004



2009

Location: SOUTH QUAY – Chainage 210 – 220m

| Overall Grading: | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------|-------|--|------|------|--|------|--|-----------|----------|------|-------|-------------|-------------|--|--|--|-----|--|--|--|-----------|--|--|--|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good | | | | | | | | | | | | | | | | |
| <div><div>General:</div><div>Weather Conditions:</div><div>Mild + Cloudy</div><div>Dry + Cloudy</div><div>Inspection Date:</div><div>08/12/04 08/04/09</div><div>Tidal Conditions:</div><div>LW + 4.07 LW</div><div>Inspection Time:</div><div>1205 1143</div><div>Average Height of Section:</div><div>5.1</div></div> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>Features:</div><table><tr><th>Chainage</th><th>Item</th><th>Depth</th><th>Description</th></tr><tr><td>210 - 211</td><td></td><td></td><td>Missing coping stones (width 1.4m) No change</td></tr><tr><td>212</td><td></td><td></td><td>Rusty mild steel ladder New steel Ladder with handrails at top</td></tr><tr><td>210 - 220</td><td></td><td></td><td>Generally depressed sunken area behind coping stones, typically 2m width, max. 3m Unclear.</td></tr></table></div> | | | | | | | | | | Chainage | Item | Depth | Description | 210 - 211 | | | Missing coping stones (width 1.4m) No change | 212 | | | Rusty mild steel ladder New steel Ladder with handrails at top | 210 - 220 | | | Generally depressed sunken area behind coping stones, typically 2m width, max. 3m Unclear. |
| Chainage | Item | Depth | Description | | | | | | | | | | | | | | | | | | | | | | |
| 210 - 211 | | | Missing coping stones (width 1.4m) No change | | | | | | | | | | | | | | | | | | | | | | |
| 212 | | | Rusty mild steel ladder New steel Ladder with handrails at top | | | | | | | | | | | | | | | | | | | | | | |
| 210 - 220 | | | Generally depressed sunken area behind coping stones, typically 2m width, max. 3m Unclear. | | | | | | | | | | | | | | | | | | | | | | |
| <div><div>Condition Defects:</div><table><tr><th>Chainage</th><th>Item</th><th>Depth</th><th>Description</th></tr><tr><td>210 – 210.8</td><td></td><td></td><td>Top coping stone missing as above</td></tr><tr><td></td><td></td><td></td><td>Vegetation on gaps between coping stones</td></tr><tr><td></td><td></td><td></td><td>Some open joints across section of wall, requires repointing.</td></tr></table></div> | | | | | | | | | | Chainage | Item | Depth | Description | 210 – 210.8 | | | Top coping stone missing as above | | | | Vegetation on gaps between coping stones | | | | Some open joints across section of wall, requires repointing. |
| Chainage | Item | Depth | Description | | | | | | | | | | | | | | | | | | | | | | |
| 210 – 210.8 | | | Top coping stone missing as above | | | | | | | | | | | | | | | | | | | | | | |
| | | | Vegetation on gaps between coping stones | | | | | | | | | | | | | | | | | | | | | | |
| | | | Some open joints across section of wall, requires repointing. | | | | | | | | | | | | | | | | | | | | | | |



2004



2009

Location: SOUTH QUAY – Chainage 220 – 230m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Dry + Cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW + 4.12 LW

Inspection Time: 1210 1145

Average Height of Section: 5.15

Features:

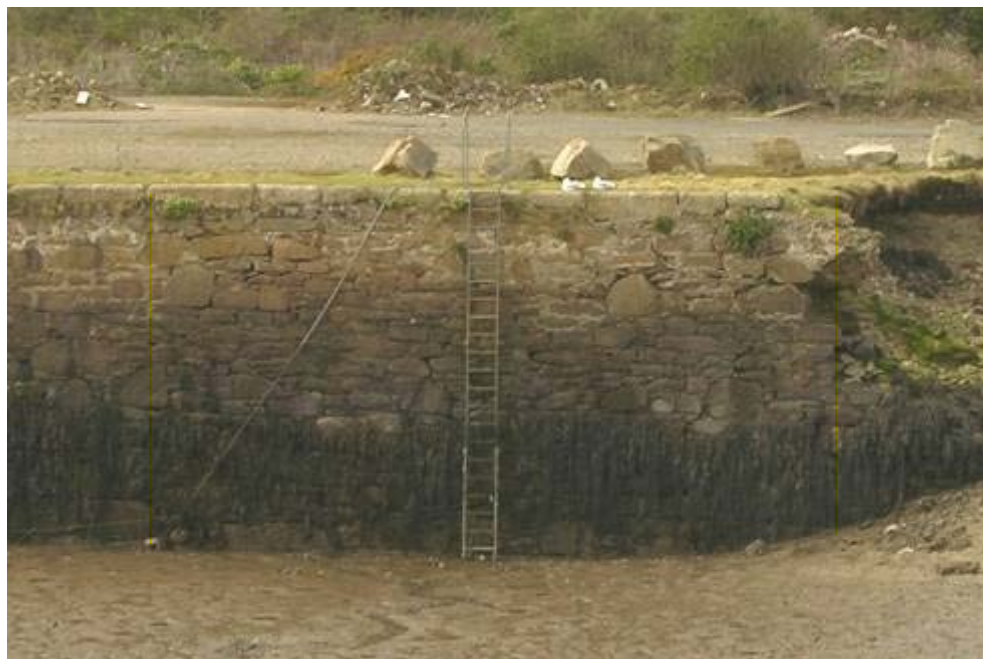
| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 221.0 | | | Missing coping stone 1.25m width with adjacent depression. No change |
| 222.8 224 | | | Painted mild steel ladder New steel ladder with hand rails at top. |
| 220 - 230 | | | Generally depressed / sunken area behind coping stones. Typically 2 – 3m width Unclear. |

Condition Defects:

| Chainage | Item | Depth | Description |
|---------------|------|----------|---|
| 220.2 – 201.2 | | | Coping stone missing No change Joints below coping stone vegetated / open, need repointing No change |
| 200 – 201.5 | | 0 – 1.20 | Blocks missing & open joints No change |



2004



2009

Location: SOUTH QUAY – Chainage 230 – 240m

Overall Grading:

| | | | | | | | | | |
|---------------------------|--------------|--|------|-------------------|------|--|------|--|--------------|
| 2004 2009 (238-240) | Very Poor | | Poor | 2009 (230-238) | Fair | | Good | | Very Good |
|---------------------------|--------------|--|------|-------------------|------|--|------|--|--------------|

General:

Weather Conditions: Mild + Cloudy
Dry + Cloudy

Inspection Date: 08/12/04 08/04/09

Tidal Conditions: LW + 4.14 LW

Inspection Time: 1212 1145

Average Height of Section: 5.15

Features:

| Chainage | Item | Depth | Description |
|----------|------|---------|--|
| 235.0 | | | Unsafe rusted mild steel ladder, top stringers badly bent New steel ladder with handrails at top. |
| 233-240 | | Surface | Large rocks offset from harbour wall |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 231 - 240 | | | Open joints below coping / vegetation No change Wall gets progressively worse with displacement until present breach is reached Cracking before collapse but no obvious disintegration. Appears to slope downwards towards breach |
| 239 | | | Vertical crack Block missing at start of collapsed section. |



2004



2009

Location: SOUTH QUAY – Chainage 240 – 250m

| | | | | | | | | | |
|------------------|-----------|----------------|------|--|------|--|------|--|-----------|
| Overall Grading: | | No O/A grading | | | | | | | |
| | Very Poor | | Poor | | Fair | | Good | | Very Good |

| | | | | | |
|------------------|-------------------|----------------------------|--|-----------------|--|
| General: | | Weather Conditions: | | Mild and Cloudy | |
| Inspection Date: | 08/12/04 08/04/09 | Tidal Conditions: | | LW | |
| Inspection Time: | 1143 | Average Height of Section: | | 4.90 | |

| | | | |
|-----------|------|-------|-------------|
| Features: | | | |
| Chainage | Item | Depth | Description |
| | | | |

| | | | |
|--------------------|------|-------|--|
| Condition Defects: | | | |
| Chainage | Item | Depth | Description |
| 240 - 250 | | | Breach in wall, see images No change Wall breach extends back to approx. 17.5m to furthest point from face of wall Extent of breach not measured. |



2004



2009

Location: SOUTH QUAY – Chainage 250 – 260m

| | | | | | | | | | |
|------------------|-----------|----------------|------|--|------|--|------|--|-----------|
| Overall Grading: | | No O/A grading | | | | | | | |
| | Very Poor | | Poor | | Fair | | Good | | Very Good |

| | | | | | |
|------------------|-------------------|----------------------------|--|-----------------|--|
| General: | | Weather Conditions: | | Mild and Cloudy | |
| Inspection Date: | 08/12/04 08/04/09 | Tidal Conditions: | | LW | |
| Inspection Time: | 1132 | Average Height of Section: | | Breach N/A | |

| | | | |
|-----------|------|-------|---|
| Features: | | | |
| Chainage | Item | Depth | Description |
| 250 - 260 | | | Breach extends back from line of wall to 17.5m approx. at max. Extent of breach not measured. |

| | | | |
|--------------------|------|-------|---------------------------------------|
| Condition Defects: | | | |
| Chainage | Item | Depth | Description |
| 250 - 260 | | | Breach in wall (see images) No change |



2004



2009

Location: SOUTH QUAY – Chainage 260 – 270m

Overall Grading:

| | | | | | | | | | |
|--------------|----------------------------|--------------|------------------------|--|------|--|------|--|-----------|
| 2004 2009 | Very Poor 260- 266.5 | 2004 2009 | Poor 268.5 – 270 | | Fair | | Good | | Very Good |
|--------------|----------------------------|--------------|------------------------|--|------|--|------|--|-----------|

General:

Inspection Date: 08/12/04 08/04/09
Inspection Time: 1132

Weather Conditions: Mild and Cloudy
Tidal Conditions: LW
Average Height of Section: Breach N/A

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 260 - 267 | | | Breach extends back from projected line of wall to maximum of 17.5m approx. Extent of breach not confirmed. |
| 267 - 270 | | | Significant depression behind wall No change |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|-------|---------------------------------------|
| 266 | | | Further blocks falling into breach |
| 268.5 | | | Vertical crack appearing from surface |



2004



2009

Location: SOUTH QUAY – Chainage 270 – 280m

Overall Grading:

| | | | | | | | | | |
|------|-----------|------|------|--|------|--|------|--|-----------|
| 2004 | Very Poor | 2009 | Poor | | Fair | | Good | | Very Good |
|------|-----------|------|------|--|------|--|------|--|-----------|

General:

Weather Conditions: Cloudy, colder
Mild and Cloudy

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 1.59 LW

Inspection Time: 1050 1141

Average Height of Section: 5.20

Features:

| Chainage | Item | Depth | Description |
|-------------|------|-------|--|
| 272 | | 0.3 | 100mm diameter pipe overgrown by vegetation |
| 270 – 272.5 | | | Significant depression behind wall |
| 275 277 | | | Rusty scaffold type ladder New steel ladder with handrails at top. |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------------|--|
| 270 - 277 | | 1.30 – 1.70 | Vegetation between and under open joints around coping All copings have metal pins in this area Horizontal crack, some recent repairs on top 1m approx of wall No change |
| 277 | | 1.00 | Block missing No change Randomly spaced open joints throughout No change Boat in way – lower sections not surveyed No change |



2004



2009

Location: SOUTH QUAY – Chainage 280 – 290m

| Overall Grading: | | | | | | | | | |
|------------------|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |

| | | | | | |
|------------------|-------------------|----------------------------|--|-------------------------------------|--|
| General: | | Weather Conditions: | | Cloudy, colder Bright and cloudy | |
| Inspection Date: | 09/12/04 08/04/09 | Tidal Conditions: | | LW + 2.09 LW | |
| Inspection Time: | 1100 1141 | Average Height of Section: | | 5.3 | |

| Features: | | | |
|-----------|------|-------|-------------|
| Chainage | Item | Depth | Description |
| | | | |

| Condition Defects: | | | |
|--------------------|------|-------------|------------------------------------|
| Chainage | Item | Depth | Description |
| 280 - 290 282 | | 1.00 approx | General repairs, recent? No change |
| | | | Open joints below coping Minimal |
| | | 0.4 | Missing block No change |
| | | 2.90 | General seaweed line No change |



2004



2009

Location: SOUTH QUAY – Chainage 290 – 300m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |
|--|-----------|--|------|------|------|------|------|--|-----------|

General:

Weather Conditions: Cloudy, colder
Sunny but cloudy

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 2.11 LW

Inspection Time: 1102 1141

Average Height of Section: 5.3

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|--|
| 297 | | | Wooden ladder New steel ladder with handrails at top |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------|--|
| 290 - 300 | | | Vegetation below coping stone Only at 291.5 and 298 |
| 290 - 300 | | | Some randomly spaced open joints No change Re-pointing required below seaweed line. |



2004



2009

Location: SOUTH QUAY – Chainage 300 – 310m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Cloudy, colder
Bright but cloudy

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 2.13 LW

Inspection Time: 1104 1141

Average Height of Section: 5.3

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 308 | | | Missing coping stone 1.4m length No change |
| 300 - 310 | | | Generally sunken behind coping stones Unclear |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------------|--|
| 300 - 310 | | | Vegetation below coping stones Only visible at 305.5 and 309 |
| | | Around 3.0m | Seaweed growth line |
| 308 | | | Missing coping stone, 1.35m No change |
| | | | Randomly spaced occasional open joints No change |



2004



2009

Location: SOUTH QUAY – Chainage 310 – 320m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Cloudy, colder
Bright but cloudy

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 2.15 LW

Inspection Time: 1106 1141

Average Height of Section: 5.4

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|--|
| 313 | | | Galvanised mild steel ladder New steel ladder with handrails |
| 317.5 | | | Coping stone missing 1.4m length No change |
| 310 - 320 | | | Generally sunken behind wall Unclear. |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|-------|--|
| 310-320 | | | Vegetation / open joints below coping stones, few / occasional open joints No change |
| 317.7 | | | Missing coping stone 1.30 wide No change |
| | | | Boat in way no change |



2004



2009

Location: SOUTH QUAY – Chainage 320 – 330m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Cloudy, colder
Bright but cloudy

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 2.19 LW

Inspection Time: 1110 1141

Average Height of Section: 5.5

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 327 | | | Aluminium ladder New ladder with handrails at top |
| 328 | | | Step in coping stone |
| 320 - 330 | | | Generally sunken behind wall No change. |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|-------------|---|
| 327.50 | | | Vegetation below coping, open joints No change 1.40m wide gap in coping, may have been drainage outlet No change |
| 320-330 | | Around 2.5m | Few minor open joints on this section No change Seaweed growth line |



2004



2009

Location: SOUTH QUAY – Chainage 330 – 340m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Cloudy, colder
Bright but cloudy

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 2.20 LW

Inspection Time: 1111 1141

Average Height of Section: 5.5

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 337.0 | | | Davit bolted to coping stone No davit. |
| 336.0 | | | Wooden ladder New ladder with handrails at top. |
| 330 - 340 | | | Generally sunken behind wall |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|---------------------|--|
| 337.50 | | | Vegetation below coping, open joints No change |
| | | | Missing coping 1.20 (removed for ladder) Still missing, ladder now moved from this spot. |
| | | | Some open joints throughout No change |
| 330-340 | | Around 3.5m onwards | Seaweed growth line (present in 2004) |



2004



2009

Location: SOUTH QUAY – Chainage 340 – 350m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Cloudy, colder
Sunny but cloudy

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 2.24 LW

Inspection Time: 1115 1141

Average Height of Section: 5.6

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 340 - 350 | | | Generally sunken behind wall No change. |
| 348 | | | New ladder with handrails at top. |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|--------------------------------|--|
| 340 - 350 | | 1.30 | Vegetation / open joints under coping No change |
| | | Recent repairs for full length | No change |
| | | below 1.30 | Some open joints, mainly horizontal No change |
| | | Around 3.0m | Seaweed growth line. Condition difficult to confirm. |



2004



2009

Location: SOUTH QUAY – Chainage 350 – 360m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Inspection Date: 09/12/04 08/04/09
Inspection Time: 1118 1141

Weather Conditions: Cloudy, colder
Bright but cloudy
Tidal Conditions: LW + 2.27 LW
Average Height of Section: 5.6

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|--|
| 350 | | | Scaffold type ladder No ladder |
| 357.5 | | | Missing coping stone (1.1m length) No change |
| 350 - 360 | | | Generally sunken behind wall Unclear |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-----------|---|
| 350 - 360 | | 0 – 1.30 | Recent repairs No change |
| 357.5 | | | Missing coping stone 1.1m wide No change |
| 357 | | 1.0 | Open horizontal joint No change |
| 350 - 358 | | below 1.3 | Generally some horizontal open joints No change |
| | | | Boat in front No longer obscuring the wall |



2004



2009

Location: SOUTH QUAY – Chainage 360 – 370m

Overall Grading:

| | | | | | | | | | |
|------|-----------|------|------|--|------|--|------|--|-----------|
| 2004 | Very Poor | 2009 | Poor | | Fair | | Good | | Very Good |
|------|-----------|------|------|--|------|--|------|--|-----------|

General:

Weather Conditions: Cloudy, colder
Sunny

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 2.30 LW

Inspection Time: 1121 1140

Average Height of Section: 5.6

Features:

| Chainage | Item | Depth | Description |
|--------------|------|-------|--|
| 365 | | | Very rusty mild steel ladder New ladder with handrails at top. |
| 367.70 - 370 | | | Missing coping stone 1.10 wide No change |
| 360 - 370 | | | Generally sunken behind wall Unclear. |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------------|---|
| 365 – 367 | | | Vegetation / open joints below coping No change Small bulge in wall, i.e. looking on plan Unclear. Occasional open joints No change |
| 360-370 | | Around 3.0m | Seaweed growth line |



2004



2009

Location: SOUTH QUAY – Chainage 370 – 380m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Sunny / colder
Sunny

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 2.37 LW

Inspection Time: 1128 1140

Average Height of Section: 5.6

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|--|
| 374.5 | | | Aluminium ladder New ladder with handrails at top. |
| 370 - 380 | | | Generally sunken behind wall Unclear. |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------------|--|
| 372 & 378 | | 1.10 | Vegetation / open joints under coping Small amount – less than elsewhere. 2 large metal plates No change Generally randomly spaced open joints No change |
| 370-380 | | Around 3.0m | Seaweed growth line |



2004



2009

Location: SOUTH QUAY – Chainage 380 – 390m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|--------------|------|--------------|--------------|-----------------------|--|-----------|
| | Very Poor | 2004 | Poor masonry | 2009 | Fair masonry | 2004 2009 | Good Sheet piled wall | | Very Good |
|--|-----------|------|--------------|------|--------------|--------------|-----------------------|--|-----------|

General:

Weather Conditions: Sunny / colder
Sunny

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 2.44 LW

Inspection Time: 1135 1140

Average Height of Section: 5.5

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 383.70 | | | Sheet piled wall with concrete coping commences No change |
| 387.0 | | | Mild steel ladder New ladder with handrails at top. |
| 380 - 390 | | | Generally sunken behind wall Unclear. |

Condition Defects:

| Chainage | Item | Depth | Description |
|--------------|------|-------|---|
| 380 – 383.70 | | | Vegetation crack below coping Small amount of vegetation. |
| 383 | | 1.10 | Large metal plate No change |
| 380 – 383.70 | | | Randomly spaced open joints No change |
| 383.70 - 390 | | | Sheet piled wall No change |
| | | | Boat in front No change |



2004



2009

Location: SOUTH QUAY – Chainage 390 – 400m

| | | | | | | | | | |
|------------------|-----------|--|------|------|------|------|------|--|-----------|
| Overall Grading: | | | | | | | | | |
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |

| | | | | | |
|------------------|-------------------|----------------------------|--|-----------------------------------|--|
| General: | | Weather Conditions: | | Sunny / colder Mild but bright | |
| Inspection Date: | 09/12/04 08/04/09 | Tidal Conditions: | | LW + 2.45 LW | |
| Inspection Time: | 1136 1140 | Average Height of Section: | | 5.6 | |

| | | | |
|-----------|------|-------|--------------------------------------|
| Features: | | | |
| Chainage | Item | Depth | Description |
| 390 - 400 | | | Sheet piled wall No change |
| | | | Generally sunken behind wall Unclear |

| | | | |
|--------------------|------|-------|-------------|
| Condition Defects: | | | |
| Chainage | Item | Depth | Description |
| | | | |



2004



2009

Location: SOUTH QUAY – Chainage 400 – 410m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |
|--|-----------|--|------|------|------|------|------|--|-----------|

General:

Weather Conditions: Sunny / colder
Bright but mild

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 2.48 LW

Inspection Time: 1139 1139

Average Height of Section: 5.7

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|--------------------------------------|
| 400 - 410 | | | Anchored Sheet piled wall No change |
| 401 | | | Davit No davit |
| 400 – 410 | | | Generally sunken behind wall Unclear |
| 403.5 | | | New ladder with handrails at top. |

Condition Defects:

| Chainage | Item | Depth | Description |
|-------------|------|-------|--|
| 400 – 408.5 | | | ?? |
| | | | Large boat in the way from 402m chainage no change |



2004



2009

Location: SOUTH QUAY – Chainage 410 – 420m

Overall Grading:

| | | | | | | | | | |
|--|-----------|--|------|------|------|------|------|--|-----------|
| | Very Poor | | Poor | 2004 | Fair | 2009 | Good | | Very Good |
|--|-----------|--|------|------|------|------|------|--|-----------|

General:

Weather Conditions: Sunny / colder
Mild but bright

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 2.51 LW

Inspection Time: 1142 1139

Average Height of Section: 5.5

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 410 - 415 | | | Sheet piled wharf No change Generally sunken behind wall Unclear |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------|------|-------|-------------|
| | | | |



2004



2009

Location: SOUTH QUAY – Chainage 420 – 430m

Overall Grading:

| | | | | | | | | | |
|--|-----------|----------------|--------------|-------------------------------------|------------------|-------------------|------|--|-----------|
| | Very Poor | 2004 (masonry) | Poor masonry | 2004 (sheet pile) 2009 (masonry) | Fair Sheet piles | 2009 (sheet pile) | Good | | Very Good |
|--|-----------|----------------|--------------|-------------------------------------|------------------|-------------------|------|--|-----------|

General:

Weather Conditions: Sunny / colder
Bright but mild

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 2.59 LW

Inspection Time: 1150 1139

Average Height of Section: 5.5

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|--|
| 421.70 | | | Sheet piled wall ends No change |
| 420.5 | | | Mild steel ladder – useless / dangerous New ladder with handrail at top. |

Condition Defects:

| Chainage | Item | Depth | Description |
|--------------|------|-------|--|
| 420 – 421.7 | | | Sheet piled wall, some spalling at end of concrete capping beam (minor) No change (spalling minor) |
| 421.70 - 430 | | | Masonry wall No change |
| 427.5 | | 0.90 | Missing blocks No change |
| 421.7 - 430 | | | Randomly spaced open joints generally below 1m and particularly at Ch 427.5 No change |
| 420-430 | | 3.0 | Seaweed line |



2004



2009

Location: SOUTH QUAY – Chainage 430 – 440m

Overall Grading:

| | | | | | | | | | |
|------|-----------|------|------|--|------|--|------|--|-----------|
| 2004 | Very Poor | 2009 | Poor | | Fair | | Good | | Very Good |
|------|-----------|------|------|--|------|--|------|--|-----------|

General:

Weather Conditions: Sunny / colder
Sunny

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 3.01 LW

Inspection Time: 1152 1139

Average Height of Section: 5.6

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 433 432.5 | | | Rusty mild steel ladder New ladder with handrails at top. |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-----------|--|
| 434.5 | | | Vegetation / open joints under coping No change |
| | | | Minor bulge in plan Unclear |
| 434 | | 0.4 | Hole / block missing, probably drainage hole No change |
| 436 | | | Coping gone replaced by rough concrete No change |
| | | 0.4 – 1.0 | Blocks missing No change |
| | | | Generally open joints No change |
| 430 - 435 | | 1.4 | Some previous repairs over part of wall No change |
| 440 | | 2.0 | Blocks missing No change |
| | | | Signs of previous movement No change |



2004



2009

Location: SOUTH QUAY – Chainage 440 – 450m

Overall Grading:

| | | | | | | | | | |
|------|-----------|------|------|--|------|--|------|--|-----------|
| 2004 | Very Poor | 2009 | Poor | | Fair | | Good | | Very Good |
|------|-----------|------|------|--|------|--|------|--|-----------|

General:

Weather Conditions: Sunny / colder
Sunny

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 3.07LW

Inspection Time: 1115 1138

Average Height of Section: 5.7

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|-------------|
| | | | |

Condition Defects:

| Chainage | Item | Depth | Description |
|-------------|------|-------------|--|
| 410 - 415 | | | Movement / settlement generally No change |
| 410.5 | | 0.3 | Blocks missing below coping No change |
| 414 | | 1.0 | Large open horizontal crack No change |
| 413 | | 1.8 | Missing block No change |
| 412 | | 1.0 & 1.4 | Missing blocks No change |
| 410 - 416 | | | Signs of settlement in wall No change |
| 449 / 450 | | 0 – 2.80 | Vertical crack at least to seaweed level Unclear |
| 417 – 418.5 | | | Vegetation between and under coping stones. |
| 440-450 | | Around 3.0m | Condition difficult to confirm |



2004



2009

Location: SOUTH QUAY – Chainage 450 – 460m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Sunny / colder
Sunny

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 3.19 LW

Inspection Time: 1210 1138

Average Height of Section: 5.7

Features:

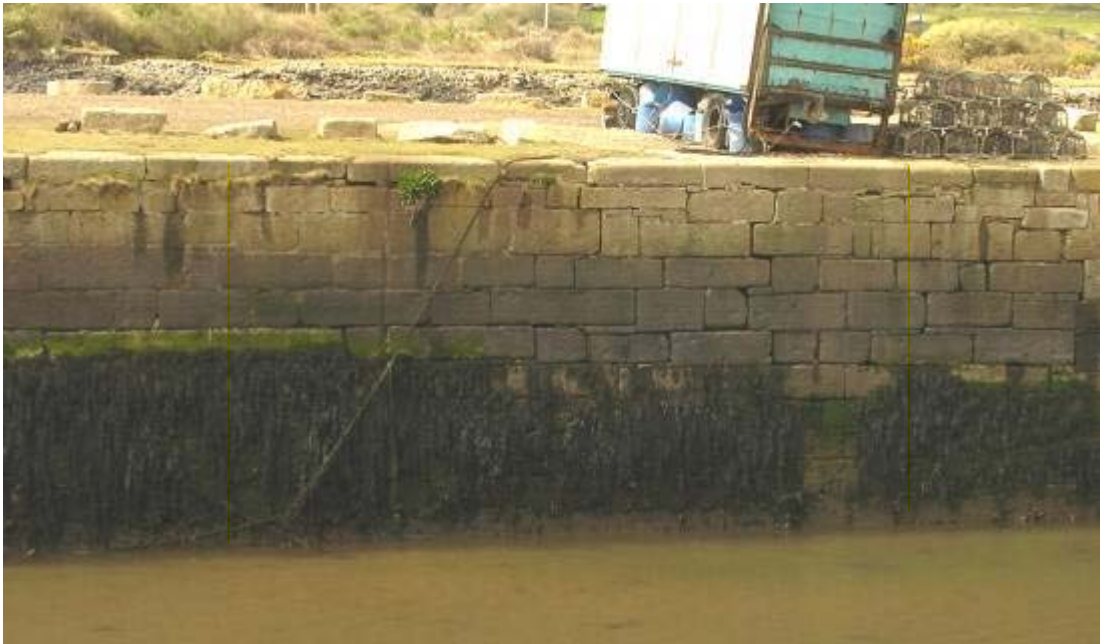
| Chainage | Item | Depth | Description |
|----------|------|-------|---|
| 454 | | | Rusty scaffold type ladder New ladder with handrails at top |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------------|--|
| 450 - 460 | | Around 3.0m | Vegetation cracks under copings No change Seaweed growth line, condition difficult to confirm |
| 457 | | | Small hole possibly for drainage No change |



2004



2009

Location: SOUTH QUAY – Chainage 460 – 470m

Overall Grading:

| | | | | | | | | | |
|--|-----------|------|------|------|------|--|------|--|-----------|
| | Very Poor | 2004 | Poor | 2009 | Fair | | Good | | Very Good |
|--|-----------|------|------|------|------|--|------|--|-----------|

General:

Inspection Date: 09/12/04 08/04/09
Inspection Time: 1215 1138

Weather Conditions: Sunny / colder

Tidal Conditions: LW + 3.24

Average Height of Section: 5.7

Features:

| Chainage | Item | Depth | Description |
|-------------|------|-------|---|
| Approx. 466 | | | 2004 Rusty scaffold type ladder, no longer present 2009 |

Condition Defects:

| Chainage | Item | Depth | Description |
|------------------------|------|-------------|--|
| 460-464.5 460 - 470 | | | Vegetation under coping Cracks under coping |
| 466 | | 0 – 2m plus | Large vertical crack No change |
| 468 | | 0 – 2m plus | Large vertical crack down at least to seaweed line No change |



2004



2009

Location: SOUTH QUAY – Chainage 470 – 480m

Overall Grading:

| | | | | | | | | | |
|------|-----------|--|------|--|------|------|------|--|-----------|
| 2004 | Very Poor | | Poor | | Fair | 2009 | Good | | Very Good |
|------|-----------|--|------|--|------|------|------|--|-----------|

General:

Weather Conditions: Sunny / colder
Sunny

Inspection Date: 09/12/04 08/04/09

Tidal Conditions: LW + 3.27 LW

Inspection Time: 1218 1138

Average Height of Section: 5.8

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|------------------------------------|
| 474.0 | | | Heras fencing commenced No fencing |
| 474 | | | New ladder with handrails at top. |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------------|--|
| 470 - 480 | | | From ch.470m wall gets progressively worse – considerable movement. Blocks or large open joints under coping Large open vertical cracks Wall repaired well, blocks repointed. |
| 480 | | 2m | Rotation of wall, one small block missing Repaired. |
| 470-480 | | Around 3.0m | Seaweed growth line |



2004



2009

Location: SOUTH QUAY – Chainage 480 – 490m

Overall Grading:

| | | | | | | | | | |
|------|-----------|--|------|--|------|------|------|--|-----------|
| 2004 | Very Poor | | Poor | | Fair | 2009 | Good | | Very Good |
|------|-----------|--|------|--|------|------|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Bright but mild

Inspection Date: 08/12/04 07/04/09

Tidal Conditions: LW + 0.32 LW

Inspection Time: 0830 1120

Average Height of Section:

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|--|
| 480 | | | Iron bollard with flange at top (filled with concrete) & leaning towards wall Not present Generally badly sunken in this area Wall repaired |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| At corner | | | Granite quoins badly dislodged with open joints |
| 485 | | 3.5 | Wall completely collapsed with stones and backing stones gone / daylight through holes to wall around corner |
| 485-486.5 | | | Wall just still in place but in dangerous condition. Wall bows at bottom |
| 489 | | 2.3 | Hole in wall Wall repaired with original blocks and now in good / safe condition. Blocks repointed. |



2004



2009

Location: SOUTH QUAY – Chainage 490 – 500m

Overall Grading:

| | | | | | | | | | |
|------|-----------|--|------|--|------|--|------|--|-----------|
| 2004 | Very Poor | | Poor | | Fair | | Good | | Very Good |
|------|-----------|--|------|--|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy

Bright + Cloudy

Inspection Date: 08/12/04 07/04/09

Tidal Conditions: LW + 0.42

Inspection Time: 0840 1120

Average Height of Section:

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|--|
| 492.7 | | 0 | Start of steps (0.9m width) Start of railings for steps |
| 496 | | 2.1 | Bottom of steps (generally need repointing) Unclear |
| 497 | | | Heras fencing terminates Removed |
| 490 - 500 | | | Generally sunken behind wall Unclear |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|------------|---|
| 496 - 492 | | Top to 2.9 | Roughly diagonal crack starting at 492m at top to 490m at bottom Repointed |
| | | 2.9 | Seaweed line generally No change Granite steps in poor condition, steel reinforcing visible from seaward side Steps have been repointed Considerable open joint blocks missing between 0 – 3.2m depth |
| 497 - 498 | | 2.2 – 3.3 | Open joints |
| | | 2.3 – 4.6 | Generally open joints, No change |
| 490 - 500 | | | note wall generally over this section does not have a straight profile |



2004



2009

Location: SOUTH QUAY – Chainage 500 – 510m

Overall Grading:

| | | | | | | | | | |
|------|-----------|------|------|--|------|--|------|--|-----------|
| 2004 | Very Poor | 2009 | Poor | | Fair | | Good | | Very Good |
|------|-----------|------|------|--|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Overcast

Inspection Date: 08/12/04 07/04/09

Tidal Conditions: LW + 1.07 LW

Inspection Time: 0905 1120

Average Height of Section: 5.1

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 508.0 | | 0.3 | Old 75mm pipe extruding from wall No change Iron pipe bollard filled with concrete set back 2m from edge of wall No change |
| 500 - 510 | | | Generally sunken behind wall Unclear |

Condition Defects:

| Chainage | Item | Depth | Description |
|---------------|------|-----------|--|
| 500 - 503 | | 2.2 | Coping granite blocks joints open No change |
| 500 - 504 | | | Diagonal crack virtually to bottom No change |
| 503.8 – 505.5 | | | Diagonal crack in wall to full depth, large amounts of open joints No change |
| 503 | | 3.00 | Missing block No change |
| 503 | | 3.60 | Missing small block No change |
| 506 | | 3.00 | At corner rounded granite block open joints and displacement No change Generally movement evident and open faults over much of this section No change |
| 506 - 510 | | 4.4 | Sill projects approx. 150 – 300 on return section Unclear |
| | | 1.2 – 4.4 | Displacement large open joints No change |



2004



2009

Location: SOUTH QUAY – Chainage 510 – 520m

Overall Grading:

| | | | | | | | | | |
|------|-----------|------|------|--|------|--|------|--|-----------|
| 2004 | Very Poor | 2009 | Poor | | Fair | | Good | | Very Good |
|------|-----------|------|------|--|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Overcast

Inspection Date: 08/12/04 09/04/09

Tidal Conditions: LW + 1.12

Inspection Time: 0910 1100

Average Height of Section: 5.6

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|--------------------------------------|
| 509 | | | Sill near base of wall ends Unclear |
| 514 | | | Mild steel ladder No ladder |
| 515 | | | Void below coping No change |
| 510 - 520 | | | Generally sunken behind wall Unclear |

Condition Defects:

| Chainage | Item | Depth | Description |
|---------------|------|-------------|--|
| 510 – 511.5 | | 0 – 5.40 | Generally open joints to full depth No change |
| 511.5 – 512.5 | | 1.60 – 2.50 | Granite blocks protruding from wall, 3 no by up to 150 (?), movement evident Unclear |
| 513 – 514.5 | | 0.3 – 1.0 | Major stone loss under coping stone No change |
| 510 - 515 | | 0 – 1.90 | Open joints in blocks, major displacements No change |
| 518 - 520 | | 1.70 - 2 | Blocks missing, major voids |
| 513-520 | | Around 3.5m | Sea weed growth line |



2004



2009

Location: SOUTH QUAY – Chainage 520 – 530m

Overall Grading:

| | | | | | | | | | |
|------|-----------|------|------|--|------|--|------|--|-----------|
| 2004 | Very Poor | 2009 | Poor | | Fair | | Good | | Very Good |
|------|-----------|------|------|--|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Overcast

Inspection Date: 09/12/04 09/04/09

Tidal Conditions: LW + 0.11

Inspection Time: 0840 1100

Average Height of Section: 5.6

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|--|
| 529.5 | | | Mild steel rusty ladder New ladder with handrails at top. Regular coursing, all granite No change |

Condition Defects:

| Chainage | Item | Depth | Description |
|--------------------|------|----------------|--|
| 520 - 530 524.5 | | | Open joints under coping, Vegetation under coping |
| 520 – 525.5 | | 1.20 – 1.75 | Blocks missing, say 15.20, odd block just sitting in hole No change |
| 520 – 525.5 | | 1.2 – 5.20 | Open joints effectively to base Not obviously visible |
| 525 - 526 | | 1.10 | Block dislodged and oversailing wall Unclear |
| 527 | | 0.5 | Hole / block missing No change Base of wall undercut by 300, Unclear Open joints for much of this wall, top to bottom No change |



2004



2009

Location: SOUTH QUAY – Chainage 530 – 540m

Overall Grading:

| | | | | | | | | | |
|------|-----------|------|------|--|------|--|------|--|-----------|
| 2004 | Very Poor | 2009 | Poor | | Fair | | Good | | Very Good |
|------|-----------|------|------|--|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Overcast

Inspection Date: 09/12/04 09/04/09

Tidal Conditions: LW – 0.03 LW

Inspection Time: 0845 1100

Average Height of Section: 5.6

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|-------------|
| | | | |

Condition Defects:

| Chainage | Item | Depth | Description |
|-------------|------|-------------|---|
| 531 - 540 | | | Open joints immediately below coping No change |
| 530 - 540 | | Full depth | Open joints to all masonry throughout wall No change |
| 530 - 540 | | | Undercutting at base as previous section by 100 – 150mm Unclear Sea weed growth line (Around 3.0m depth) |
| 532 - 535 | | 1.20 – 1.80 | Blocks either dislodged or missing No change |
| 536.5 - 538 | | | Bottom stone dislodged outwards and settled, movement under base Unclear |
| 536 - 539 | | 4.20 & 4.60 | Large open joints |
| 538 | | 1.40 | Missing block No change |



2004



2009

Location: SOUTH QUAY – Chainage 540 – 550m

Overall Grading:

| | | | | | | | | | |
|------|-----------|--|------|--|------|--|------|--|-----------|
| 2004 | Very Poor | | Poor | | Fair | | Good | | Very Good |
|------|-----------|--|------|--|------|--|------|--|-----------|

General:

Weather Conditions: Mild + Cloudy
Overcast

Inspection Date: 09/12/04 09/04/09

Tidal Conditions: LW + 0.14

Inspection Time: 0905 1100

Average Height of Section: 5.4

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|--|
| 547 | | | Corner return steps start Railings for steps present |
| 542 | | | Rusty broken steps (2004), replaced with new ladder (2009) |
| 546.7 | | | Coping cracked – possible drainage shoot underneath Not visible |
| 548 | | | Iron flanged bollard 2m offset from edge of wall Not visible |
| 547 - 550 | | | Sunken over this area Unclear |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------------|---|
| 540 - 541 | | 3.80 – 4.10 | Very open large joints. Joints visible, not particularly large. |
| 540 - 547 | | 1.2 | Some recent repairs over top section of wall No change |
| 540 - 547 | | | Open joints below coping No change |
| 542 | | 0 – 1.60 | Vertical crack No change |
| 546 | | 0.30 | Man made gully, coping crack over top No change |
| 547 - 548 | | 3 – 4.20 | Steps dislodged, some on seabed Not visible |



2004



2009

Location: SOUTH QUAY – Chainage 550 – 560m

Overall Grading:

| | | | | | | | | | |
|------|-----------|--|------|--|------|--|------|--|-----------|
| 2004 | Very Poor | | Poor | | Fair | | Good | | Very Good |
|------|-----------|--|------|--|------|--|------|--|-----------|

General:

Weather Conditions: Mild / sunny **Mild and Cloudy**

Inspection Date: 09/12/04 **09/04/09**

Tidal Conditions: LW + 0.39

Inspection Time: 0910 **1100**

Average Height of Section: 5.4

Features:

| Chainage | Item | Depth | Description |
|---------------|------|-------|--|
| 547 - 554 | | | Steps from corner Railings for steps present |
| 556 | | | Return corner No change |
| 552.5 – 553.8 | | | Remains of granite steps (0.9m wide) Unclear |
| 550 - 560 | | | Sunken over this area (no change) , coping blocks have joggle type joints |

Condition Defects:

| Chainage | Item | Depth | Description |
|----------------|------|------------|---|
| 550 - 551 | | 3.0 to 4.2 | Steps dislodged, some on seabed Not visible |
| 551 - 554 | | 0 to 2.30 | Large breach in wall, some large blocks on seabed, others resting at precarious angles Not visible |
| 553.5 - 556 | | 2.50 | Very open large horizontal crack to corner Not visible Note: steps section shown considerable movement, dangerous, Not visible |
| 556 - 560 | | | Surface sunk towards seaward corner, considerable open joints – movement No change |
| 556-560 | | | Open joints throughout the section |



2004



2009

Location: SOUTH QUAY – Chainage 560 – 570m

Overall Grading:

| | | | | | | | | | |
|------|-----------|--|------|------|------|--|------|--|-----------|
| 2004 | Very Poor | | Poor | 2009 | Fair | | Good | | Very Good |
|------|-----------|--|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild / sunny

Inspection Date: 09/12/04 09/04/09

Tidal Conditions: LW + 0.59

Inspection Time: 0950 1100

Average Height of Section: 6

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|---|
| 565 | | | All the section from 556 to end of wall view from Carnsew side at quite a distance New ladder with handrails at top. |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------------|--|
| 562 - 568 | | 1.10 – 2.8 | Considerable movement, large open joints No change |
| 560 - 570 | | | Large open joints along bottom |
| 566-569 | | Around 3.5m | Sea weed growth |



2004



2009

Location: SOUTH QUAY – Chainage 570 – 580m

Overall Grading:

| | | | | | | | | | |
|------|-----------|--|------|------|------|--|------|--|-----------|
| 2004 | Very Poor | | Poor | 2009 | Fair | | Good | | Very Good |
|------|-----------|--|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild / Sunny
Overcast

Inspection Date: 09/12/04 09/04/09

Tidal Conditions: LW + 1.09

Inspection Time: 1000 1100

Average Height of Section: 6.1

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|---|
| 576.80 | | | Davit No davit |
| 577.50 | | | Rotten wooden ladder with rusty metal steps New ladder with handrails at top. |

Condition Defects:

| Chainage | Item | Depth | Description |
|-------------|------|--------------|---|
| 570 – 575.5 | | 0 - 2.0 | More recent repairs to top section, very small stones / bricks No change |
| 570 - 580 | | 2.0 - bottom | Open joints – signs of movement for much of this section of wall No change |
| 575 - 580 | | 1.40 | Blocks missing No change |
| | | | Boat in way No change |
| | | | General signs of movement / settlement in wall when viewed from other side of water Unclear |



2004



2009

Location: SOUTH QUAY – Chainage 580 – 590m

Overall Grading:

| | | | | | | | | | |
|------|-----------|--|------|------|------|--|------|--|-----------|
| 2004 | Very Poor | | Poor | 2009 | Fair | | Good | | Very Good |
|------|-----------|--|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild / Sunny
Overcast

Inspection Date: 09/12/04 09/04/09

Tidal Conditions: LW + 1.19

Inspection Time: 1010 1100

Average Height of Section: 6.1

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|-------------|
| | | | |

Condition Defects:

| Chainage | Item | Depth | Description |
|------------|------|-------|--|
| | | | Vegetation, joints open under coping No change |
| | | | Some repairs over upper section, mainly just under coping, No change |
| Approx 590 | | | Vertical cracks and movement, generally open joints No change |



2004



2009

Location: SOUTH QUAY – Chainage 590 – 600m

Overall Grading:

| | | | | | | | | | |
|------|-----------|------|------|--|------|--|------|--|-----------|
| 2004 | Very Poor | 2009 | Poor | | Fair | | Good | | Very Good |
|------|-----------|------|------|--|------|--|------|--|-----------|

General:

Weather Conditions: Overcast

Inspection Date: 09/12/04 09/04/09

Tidal Conditions: LW + 1.21

Inspection Time: 1012 1100

Average Height of Section: 6.2

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|---|
| 594.5 | | | Metal ladder Replaced with new ladder and handrails |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------------|--|
| 590 – 600 | | | For much of this length thin coping stones, vegetation / open joints below |
| 598 - 600 | | 0.90 – 2.30 | Large gap, missing stones in wall No change |
| 599 | | 0.50 | Block missing, may be old drainage outlet No change |
| 590-600 | | Around 3.0m | Seaweed growth line, difficult to confirm condition |
| | | | Boat no longer obstructing view |



2004



2009

Location: SOUTH QUAY – Chainage 600 – 610m

Overall Grading:

| | | | | | | | | | |
|------|-----------|--|------|------|------|--|------|--|-----------|
| 2004 | Very Poor | | Poor | 2009 | Fair | | Good | | Very Good |
|------|-----------|--|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild / Sunny
Overcast

Inspection Date: 09/12/04 09/04/09

Tidal Conditions: LW + 1.24

Inspection Time: 1015 1100

Average Height of Section: 6.2

Features:

| Chainage | Item | Depth | Description |
|----------|------|-------|---|
| 605.0 | | | Flanged iron bollard set back from quayside by 2m no change |
| 608.5 | | | Mild steel ladder replaced with new ladder and handrails |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 602 | | 1.30 | Vegetation below coping stones – open joints no change |
| 600 - 602 | | | Block missing no change |
| | | | Open joints generally on this section no change |
| | | | Seaweed growth line |
| 602 | | | From 602 – 610 better quality / larger regular granite blocks, but randomly spaced open joints still apparent |
| | | | No change |
| | | | General indications of settlement over this section |
| | | | Unclear |
| | | | Boat blocking view of this section no change |



2004



2009

Location: SOUTH QUAY – Chainage 610 – 620m

Overall Grading:

| | | | | | | | | | |
|------|-----------|--|------|------|------|--|------|--|-----------|
| 2004 | Very Poor | | Poor | 2009 | Fair | | Good | | Very Good |
|------|-----------|--|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Sunny / colder
Overcast

Inspection Date: 09/12/04 09/04/09

Tidal Conditions: LW + 1.34

Inspection Time: 1025 1100

Average Height of Section: 6.2

Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|--|
| 617 - 620 | | | Remains of timber jetty, behind present masonry wall? No change |
| 617 - 620 | | | Copings missing no change |

Condition Defects:

| Chainage | Item | Depth | Description |
|-----------|------|---------|---|
| 610 - 617 | | | Open joints / vegetation under copings no change |
| 617 - 620 | | | Copings gone / void or / small stones, generally open joints throughout No change |
| 615 - 617 | | 0 – 2.0 | Some recent repairs but these also in bad state No change |
| 613-614 | | 3.0 | Wall repaired with brick work |
| | | | Viewed from Carnsew |



2004



2009

Location: SOUTH QUAY – Chainage 620m – end

Overall Grading:

| | | | | | | | | | |
|------|-----------|--|------|------|------|--|------|--|-----------|
| 2004 | Very Poor | | Poor | 2009 | Fair | | Good | | Very Good |
|------|-----------|--|------|------|------|--|------|--|-----------|

General:

Weather Conditions: Mild / sunny
Overcast

Inspection Date: 09/12/04 09/04/09

Tidal Conditions: LW + 1.39

Inspection Time: 1030 1100

Average Height of Section: 5.0

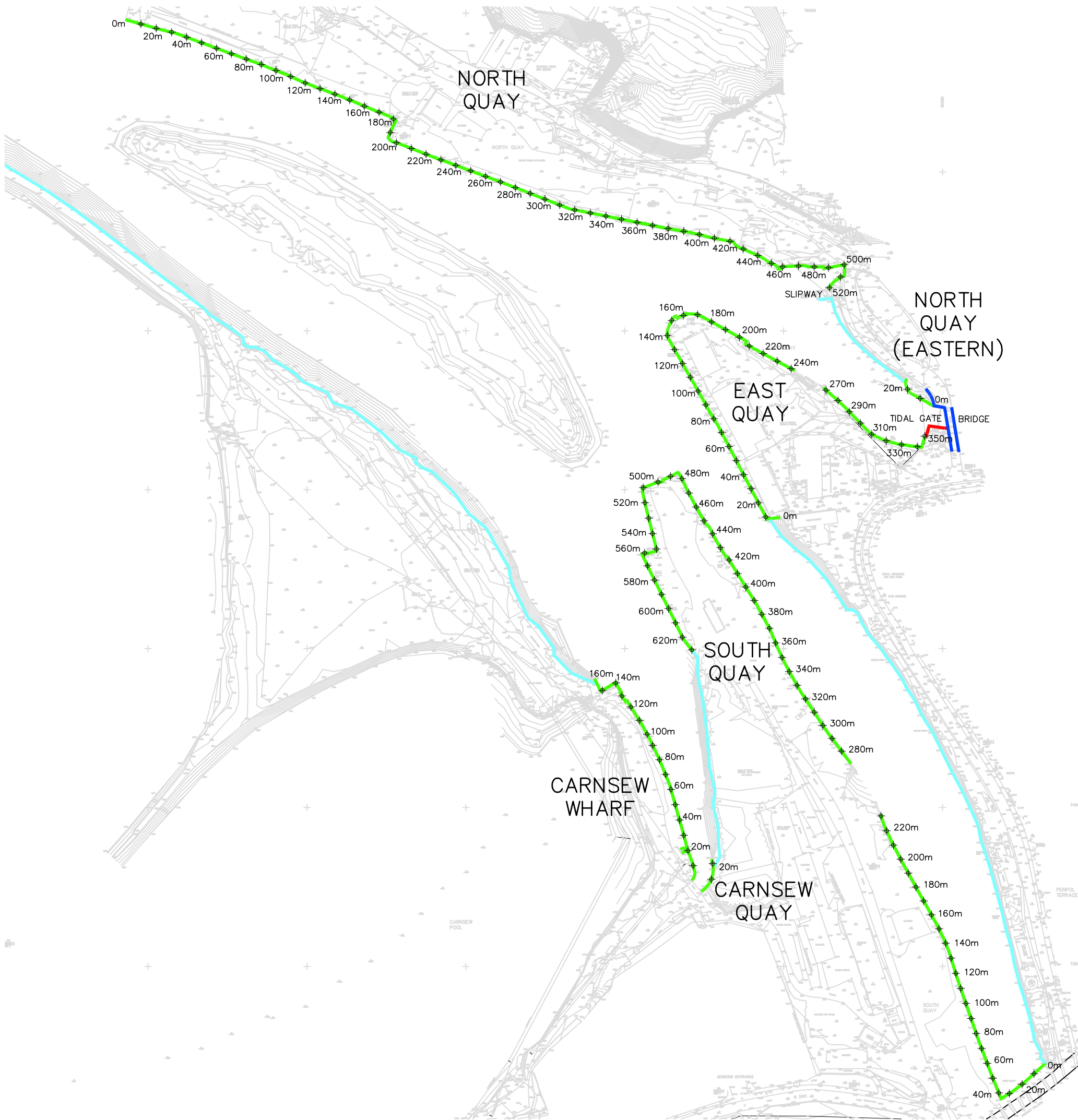
Features:

| Chainage | Item | Depth | Description |
|-----------|------|-------|---|
| 626 | | | End of masonry wall no change |
| 620 - 626 | | | Remains of old timber jetty, behind present masonry wall? No change |
| 620 - 626 | | | Copings located below GL at rear of wall Unclear |
| | | | |

Condition Defects:

| Chainage | Item | Depth | Description |
|---------------|------|-------|--|
| 621, 623, 625 | | | Holes in wall 250 deep approx No change |
| 620 - end | | | Generally open joints throughout No change |
| 623 | | 2.0m | Block missing |

3 Pull Out Orientation Map



- HARBOUR WALL
- WATERFRONT BUILDING
- BANK
- CHAINAGE

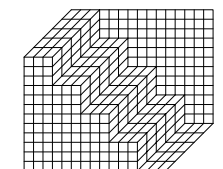
DO NOT SCALE THIS DRAWING

Notes

| | | |
|-----|---------------|---------|
| Rev | Revision/Date | Checked |
|-----|---------------|---------|

Issued only for purpose indicated Date

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Buro Happold
Consulting Engineers

Architect FSP

Project HAYLE HARBOUR

HARBOUR WALL
CONDITION SURVEY
PLAN

Scales 1:2500
Drawn MVS
Chk'd CJR

Date 12.01.05

Job No. **007838**

Drg No. **C010**

Rev 00

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