

Northumberland

North Tyneside

South Tyneside

Sunderland

441000

442000



● Cliff Top Monitoring Points

Client: North East Coastal Group
Project: Cell 1 Regional Coastal Monitoring Programme

Appendix C - Map 1 Sunderland Council Frontage

Analytical Report 3
'Full Measures' Survey 2010

Drawing Scale 1:12,000 at A4



Royal Haskoning
Marlborough House
Marlborough Crescent
Newcastle upon Tyne
NE1 4EE

Tel: +44 (0)191 211 1300
Fax: +44 (0)191 211 1313
www.royalhaskoning.com



Halcrow Group Ltd
Lyndon House
62 Hagley Road
Edgbaston
Birmingham
B16 8PE

Tel: +44 (0)121 456 2345
Fax: +44 (0)121 456 1569
www.halcrow.com

Drawn by: TC Date: 27/10/2010
Checked by: MD Date: 05/11/2010
Approved by: NC Date: 05/11/2010

Photography courtesy of
North East Coastal Observatory
www.northeastcoastalobservatory.org.uk

441000

442000



● Cliff Top Monitoring Points

Client: North East Coastal Group
Project: Cell 1 Regional Coastal Monitoring Programme

Appendix C - Map 2 Sunderland Council Frontage

Analytical Report 3
'Full Measures' Survey 2010

Drawing Scale 1:12,000 at A4



Royal Haskoning
Marlborough House
Marlborough Crescent
Newcastle upon Tyne
NE1 4EE

Tel: +44 (0)191 211 1300
Fax: +44 (0)191 211 1313
www.royalhaskoning.com



Halcrow Group Ltd
Lyndon House
62 Hagley Road
Edgbaston
Birmingham
B16 8PE

Tel: +44 (0)121 456 2345
Fax: +44 (0)121 456 1569
www.halcrow.com

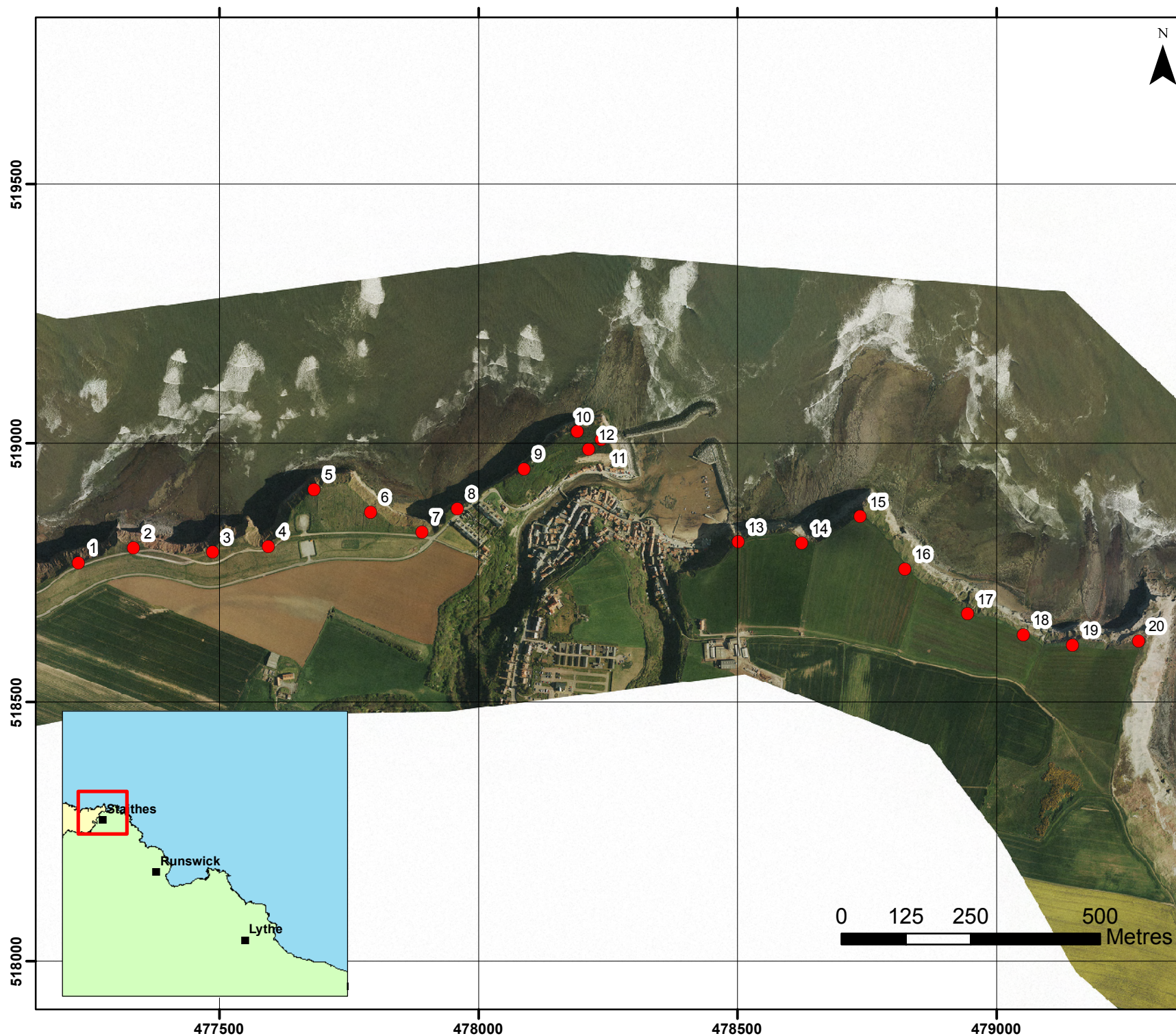
Drawn by: TC Date: 27/10/2010
Checked by: MD Date: 05/11/2010
Approved by: NC Date: 05/11/2010

Photography courtesy of
North East Coastal Observatory
www.northeastcoastalobservatory.org.uk

County Durham

Hartlepool

Redcar and Cleveland



● Ground Control Points

Client: North East Coastal Group

Project: Cell 1 Regional Coastal
Monitoring Programme

Appendix C - Map 1 Redcar & Cleveland Borough Council Frontage

Analytical Report 3
'Full Measures' Survey 2010

Drawing Scale 1:10,000 at A4

Drawn by: AW Date: 01/12/2010

Checked by: RJ Date: 01/12/2010

Approved by: RJ Date: 01/12/2010


ROYAL HASKONING
Royal Haskoning
Marlborough House
Marlborough Crescent
Newcastle upon Tyne
NE1 4EE

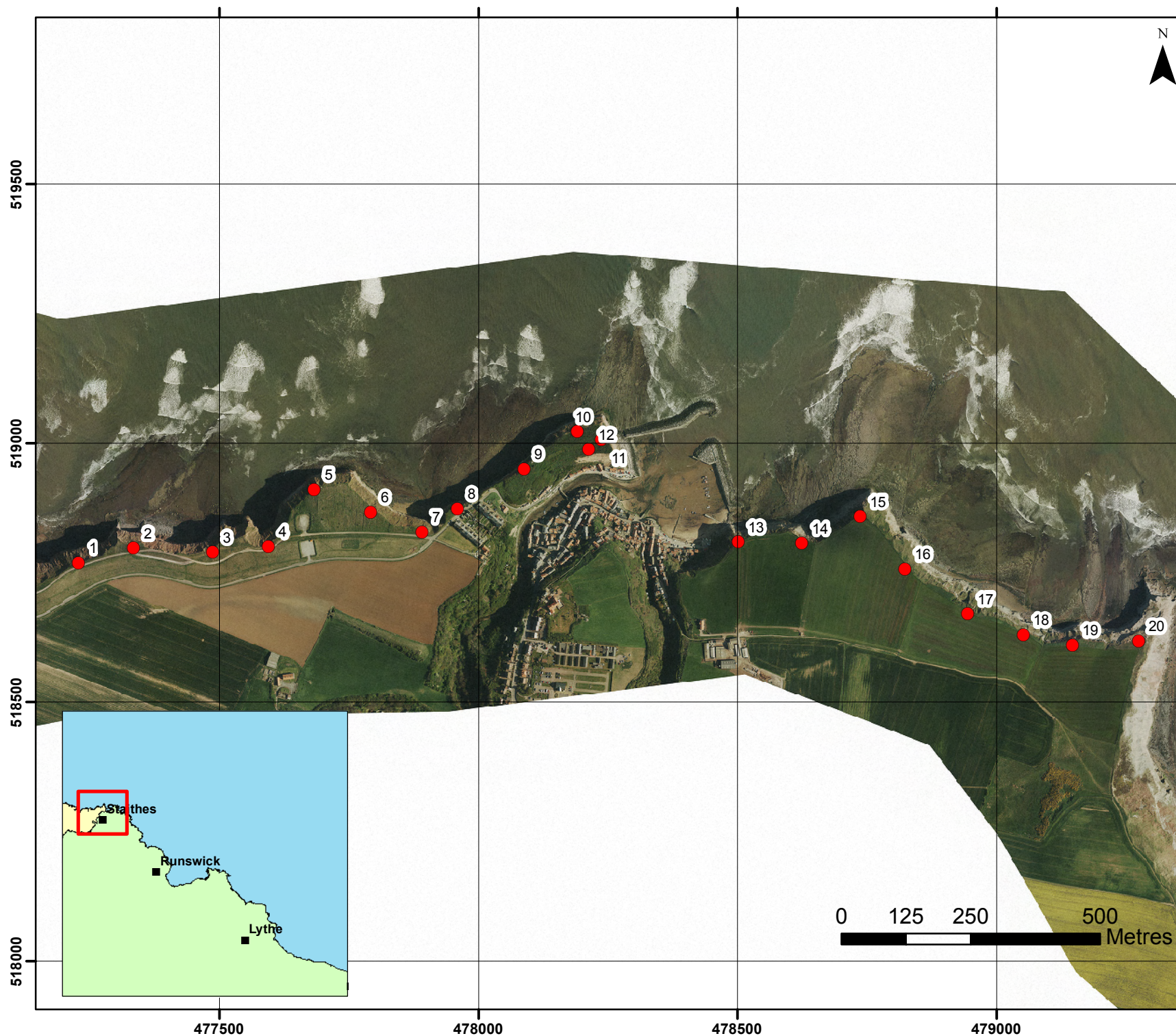

Halcrow
Halcrow Group Ltd
Lyndon House
62 Hagley Road
Edgbaston
Birmingham
B16 8PE

Tel: +44 (0)191 211 1300
Fax: +44 (0)191 211 1313
www.royalhaskoning.com

Tel: +44 (0)121 456 2345
Fax: +44(0)121 456 1569
www.halcrow.com

Photography courtesy of North East Coastal Observatory
www.northeastcoastalobservatory.org.uk

Scarborough



● Ground Control Points

Client: North East Coastal Group

Project: Cell 1 Regional Coastal
Monitoring Programme

Appendix C - Map 1 Scarborough Borough Council Frontage

Analytical Report 3
'Full Measures' Survey 2010

Drawing Scale 1:10,000 at A4

Drawn by: AW Date: 01/12/2010

Checked by: RJ Date: 01/12/2010

Approved by: RJ Date: 01/12/2010

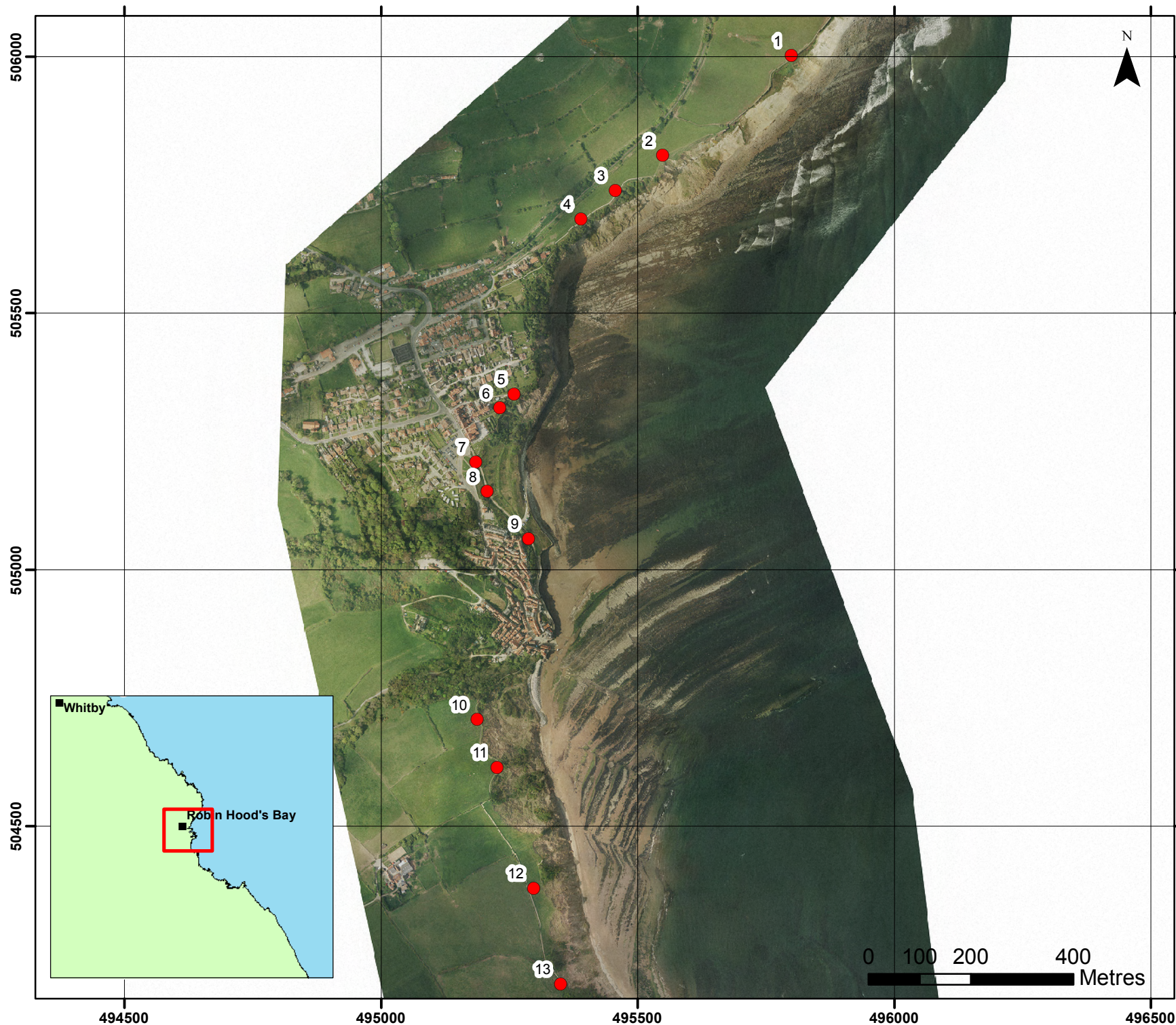
ROYAL HASKONING
Royal Haskoning
Marlborough House
Marlborough Crescent
Newcastle upon Tyne
NE1 4EE

Halcrow
Halcrow Group Ltd
Lyndon House
62 Hagley Road
Edgbaston
Birmingham
B16 8PE

Tel: +44 (0)191 211 1300
Fax: +44 (0)191 211 1313
www.royalhaskoning.com

Tel: +44 (0)121 456 2345
Fax: +44(0)121 456 1569
www.halcrow.com

Photography courtesy of North East Coastal Observatory
www.northeastcoastalobservatory.org.uk



● Ground Control Points

Client: North East Coastal Group

Project: Cell 1 Regional Coastal
Monitoring Programme

Appendix C - Map 2 Scarborough Borough Council Frontage

Analytical Report 3
'Full Measures' Survey 2010

Drawing Scale 1:10,000 at A4

Drawn by: AW Date: 01/12/2010

Checked by: RJ Date: 01/12/2010

Approved by: RJ Date: 01/12/2010

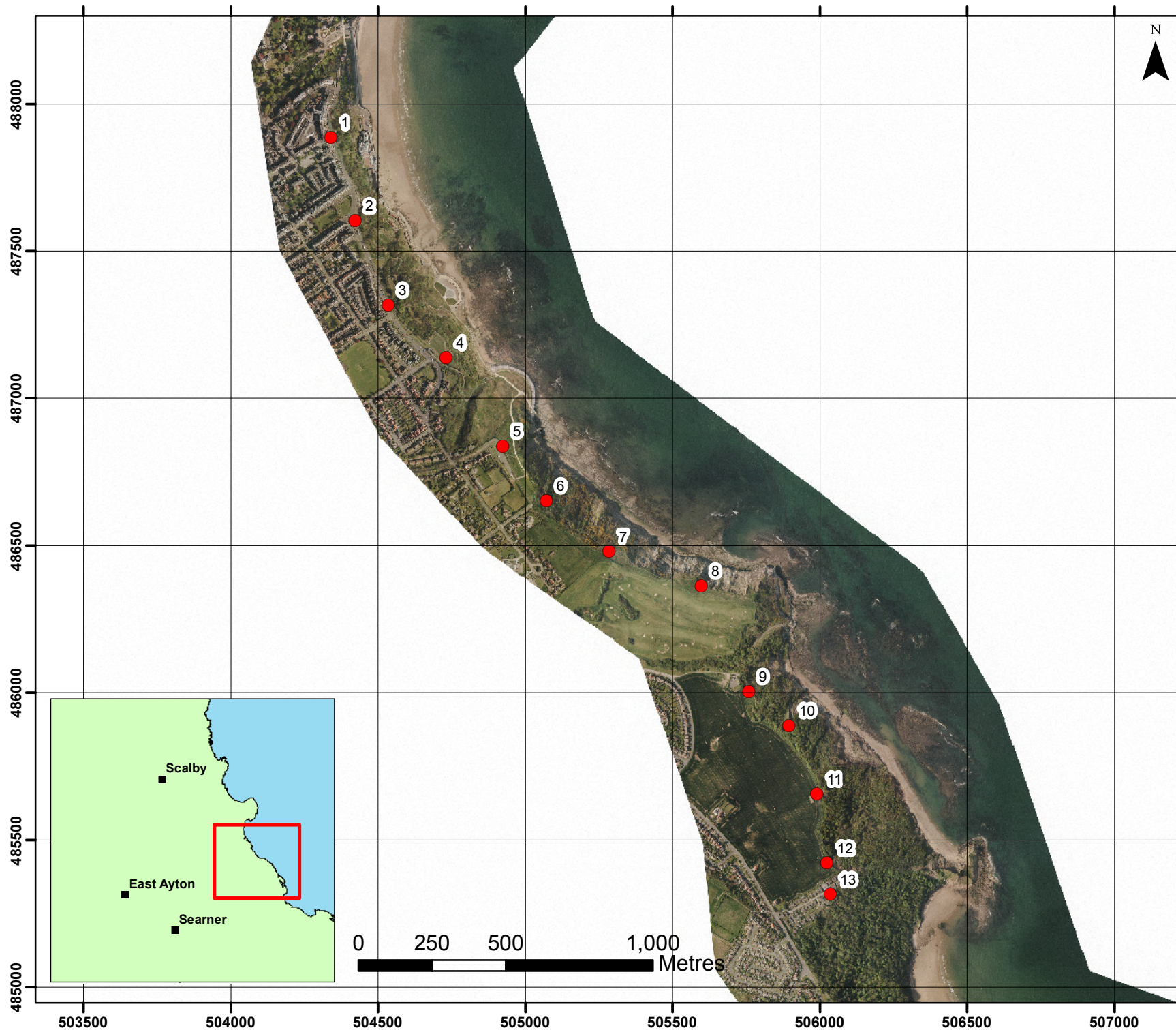
ROYAL HASKONING
Royal Haskoning
Marlborough House
Marlborough Crescent
Newcastle upon Tyne
NE1 4EE

Halcrow
Halcrow Group Ltd
Lyndon House
62 Hagley Road
Edgbaston
Birmingham
B16 8PE

Tel: +44 (0)191 211 1300
Fax: +44 (0)191 211 1313
www.royalhaskoning.com

Tel: +44 (0)121 456 2345
Fax: +44(0)121 456 1569
www.halcrow.com

Photography courtesy of North East Coastal Observatory
www.northeastcoastalobservatory.org.uk



● Ground Control Points

Client: North East Coastal Group

Project: Cell 1 Regional Coastal
Monitoring Programme

Appendix C - Map 3 Scarborough Borough Council Frontage

Analytical Report 3
'Full Measures' Survey 2010

Drawing Scale 1:17,500 at A4

Drawn by: AW Date: 01/12/2010

Checked by: RJ Date: 01/12/2010

Approved by: RJ Date: 01/12/2010

ROYAL HASKONING
Royal Haskoning
Marlborough House
Marlborough Crescent
Newcastle upon Tyne
NE1 4EE

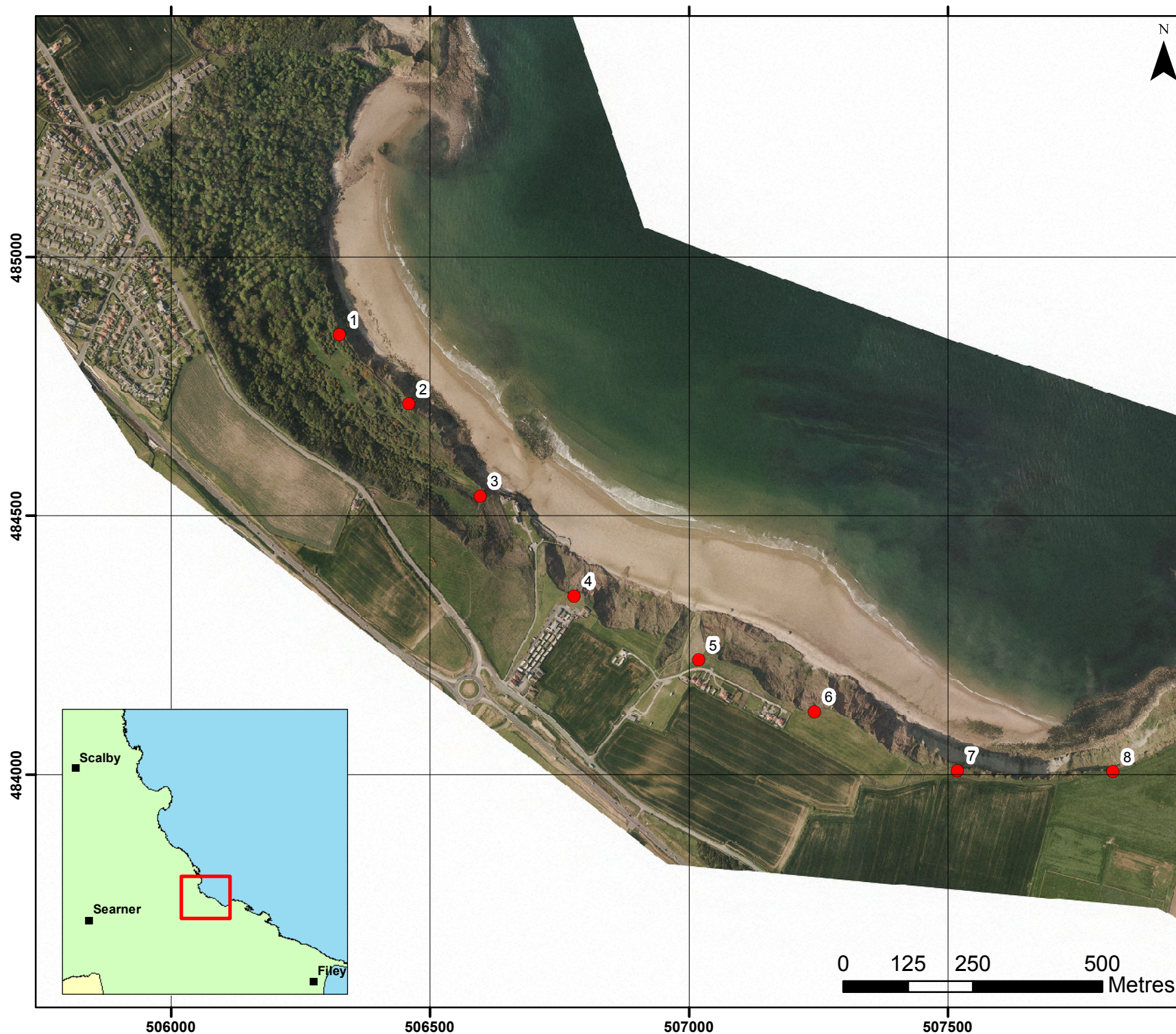
Halcrow

Halcrow Group Ltd
Lyndon House
62 Hagley Road
Edgbaston
Birmingham
B16 8PE

Tel: +44 (0)191 211 1300
Fax: +44 (0)191 211 1313
www.royalhaskoning.com

Tel: +44 (0)121 456 2345
Fax: +44(0)121 456 1569
www.halcrow.com

Photography courtesy of North East Coastal Observatory
www.northeastcoastalobservatory.org.uk



● Ground Control Points

Client: North East Coastal Group

Project: Cell 1 Regional Coastal
Monitoring Programme

Appendix C - Map 4 Scarborough Borough Council Frontage

Analytical Report 3
'Full Measures' Survey 2010

Drawing Scale 1:10,000 at A4

Drawn by: AW Date: 01/12/2010

Checked by: RJ Date: 01/12/2010

Approved by: RJ Date: 01/12/2010

Halcrow

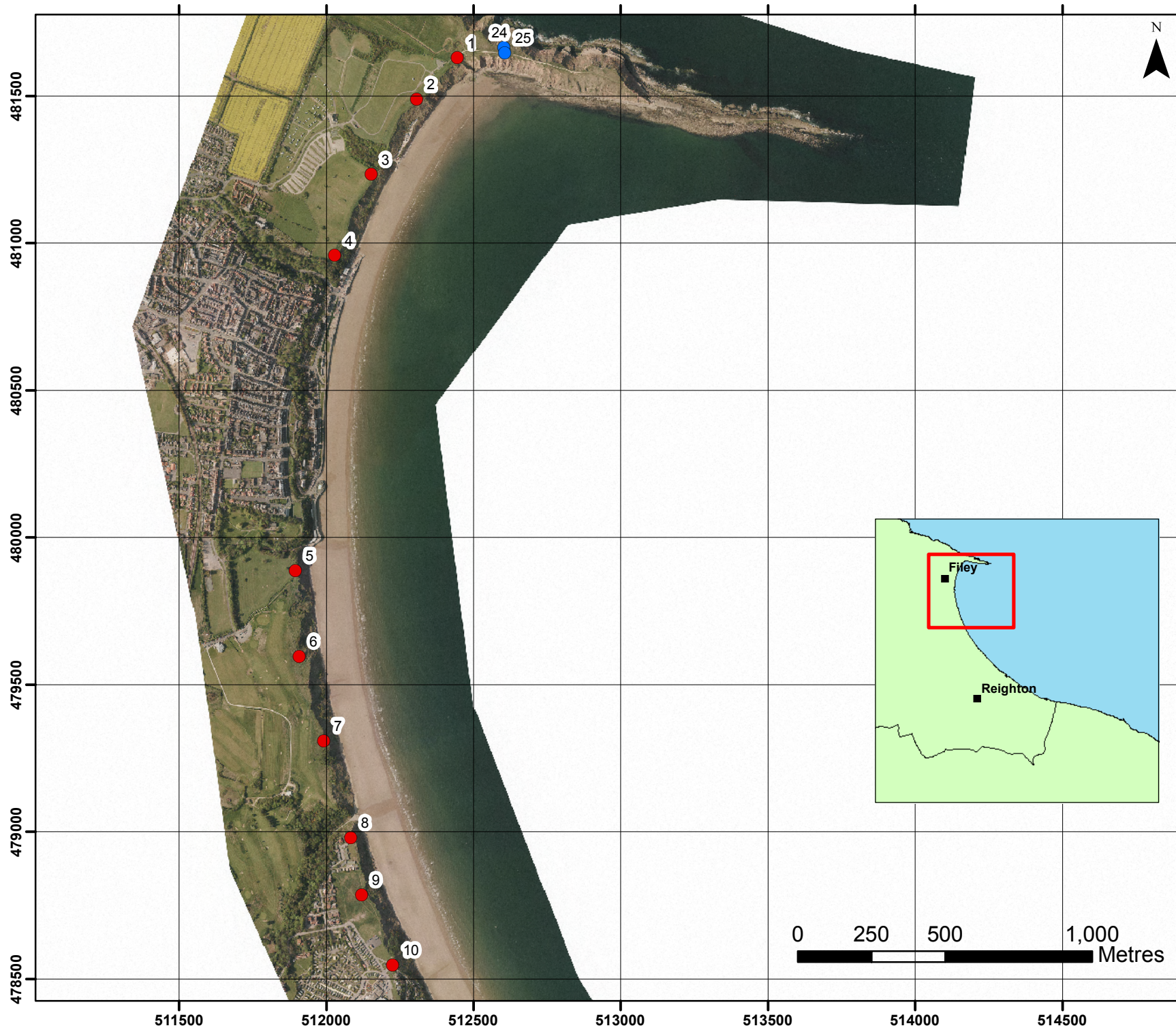
Royal Haskoning
Marlborough House
Marlborough Crescent
Newcastle upon Tyne
NE1 4EE

Halcrow Group Ltd
Lyndon House
62 Hagley Road
Edgbaston
Birmingham
B16 8PE

Tel: +44 (0)191 211 1300
Fax: +44 (0)191 211 1313
www.royalhaskoning.com

Tel: +44 (0)121 456 2345
Fax: +44(0)121 456 1569
www.halcrow.com

Photography courtesy of North East Coastal Observatory
www.northeastcoastalobservatory.org.uk



Ground Control Points

- Established Nov 2008
- Established Sept 2010

Client: North East Coastal Group

Project: Cell 1 Regional Coastal Monitoring Programme

Appendix C - Map 5a Scarborough Borough Council Frontage

Analytical Report 3
'Full Measures' Survey 2010

Drawing Scale 1:17,500 at A4

Drawn by: AW Date: 01/12/2010

Checked by: RJ Date: 01/12/2010

Approved by: RJ Date: 01/12/2010



ROYAL HASKONING
Royal Haskoning
Marlborough House
Marlborough Crescent
Newcastle upon Tyne
NE1 4EE

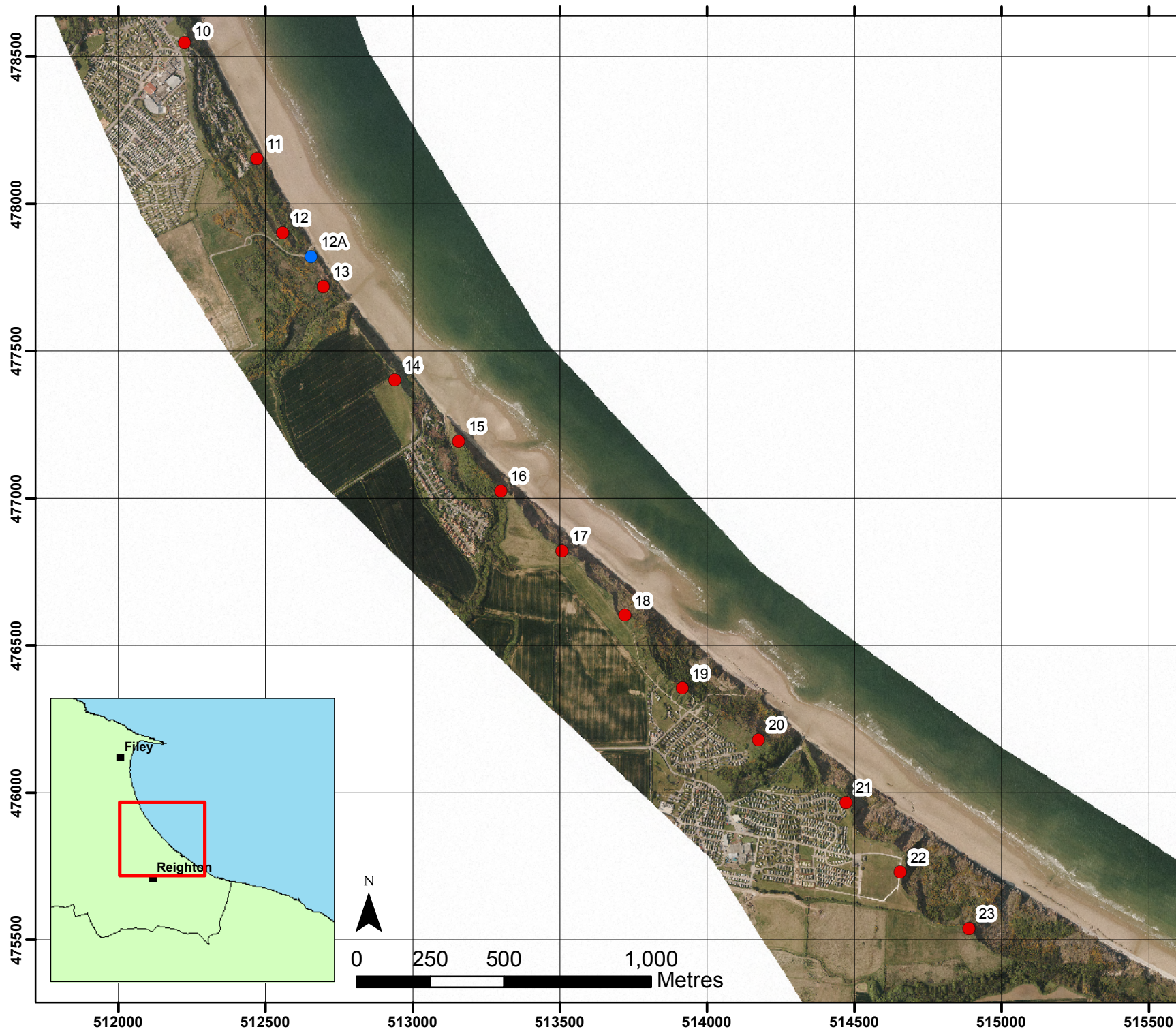
Tel: +44 (0)191 211 1300
Fax: +44 (0)191 211 1313
www.royalhaskoning.com



Halcrow
Halcrow Group Ltd
Lyndon House
62 Hagley Road
Edgbaston
Birmingham
B16 8PE

Tel: +44 (0)121 456 2345
Fax: +44(0)121 456 1569
www.halcrow.com

Photography courtesy of North East Coastal Observatory
www.northeastcoastalobservatory.org.uk



Ground Control Points

- Established Nov 2008
- Established Sept 2010

Client: North East Coastal Group

Project: Cell 1 Regional Coastal
Monitoring Programme

Appendix C - Map 5b Scarborough Borough Council Frontage

Analytical Report 3
'Full Measures' Survey 2010

Drawing Scale 1:17,500 at A4

Drawn by: AW Date: 01/12/2010

Checked by: RJ Date: 01/12/2010

Approved by: RJ Date: 01/12/2010



ROYAL HASKONING
Royal Haskoning
Marlborough House
Marlborough Crescent
Newcastle upon Tyne
NE1 4EE



Halcrow
Halcrow Group Ltd
Lyndon House
62 Hagley Road
Edgbaston
Birmingham
B16 8PE

Tel: +44 (0)191 211 1300
Fax: +44 (0)191 211 1313
www.royalhaskoning.com

Tel: +44 (0)121 456 2345
Fax: +44(0)121 456 1569
www.halcrow.com

Photography courtesy of North East Coastal Observatory
www.northeastcoastalobservatory.org.uk