Gateway Energy Centre

ENVIRONMENTAL STATEMENT
Volume 3

Prepared by

PARSONS BRINCKERHOFF

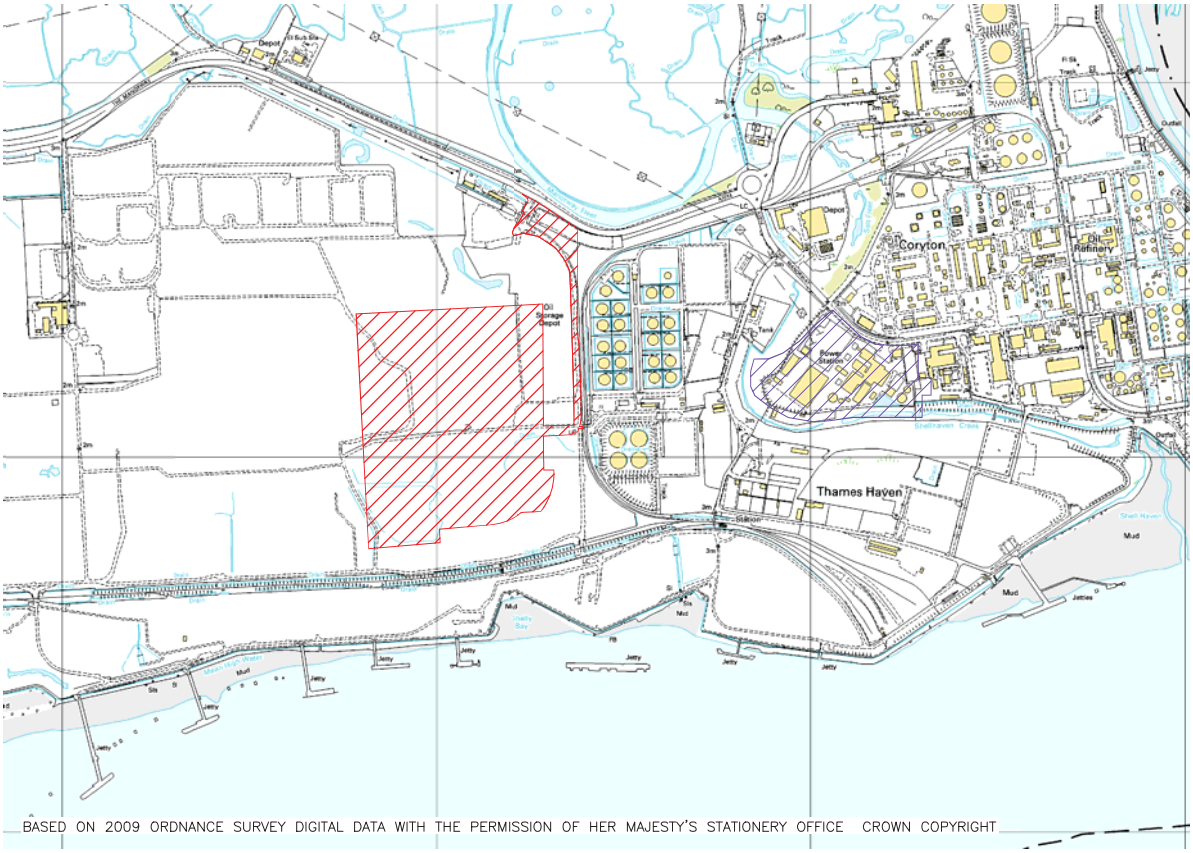
February 2010

CONTENTS

Figure	Title
1.1	GEC Application Site Location (1:50 000)
1.2	GEC Application Site Location (1:2 500)
1.3	Aerial Photograph Showing Approximate Location of the GEC Application Site
1.4	GEC Application Site Location and LG Development Area
4.1	Proposed Indicative Layout 900MW CCGT (Single Shaft)
4.2	Proposed Indicative Layout 900MW CCGT(Multi Shaft)
4.3	Proposed Indicative Layout/ Parameter Block Model Layout
4.4	Schematic of Combined Cycle Gas Turbine
4.5	Potential Temporary Laydown Area
6.1	GEC Gas Pipeline Route Options
6.2	GEC Electrical Connection Route Options
9.1	Location of Air Quality Monitoring Stations
9.2	Windrose for 2008
9.3	19th Highest Hourly Average Concentration of NO_2 for 4km by 4km Grid
9.4	19th Highest Hourly Average Concentration of NO_2 for 20km by 20km Grid
9.5	Maximum Annual Average Ground Level Concentration of NO_2 for 4km by 4km Grid
9.6	Maximum Annual Average Ground Level Concentration of NO_2 for 20km by 20km Grid
10.1	Locations of Noise Sensitive Receptors / Predicted Operational Noise Contour Plot
11.1	Zone of Theoretical Visibility
11.2	Zone of Theoretical Visibility for 75m Stacks

11.3	Location of Viewpoints Selected
11.4	National Landscape Character Areas Within 15 km of the Site
11.5	Local Landscape Character Areas
11.6	Viewpoint 1: Oozedam Country Road
11.7	Viewpoint 2: Road Bridge on the Canvey Way (A130)
11.8	Viewpoint 3: Hadleigh Castle
11.9	Viewpoint 4: Swigshole
11.10	Viewpoint 5: Northward Hill (Corner of Cooling Road and Wybournes Lane)
11.11	Viewpoint 6: Cooling
11.12	Viewpoint 7: Cliffe Marshes Northern border with Thames
11.13	Viewpoint 8: East Tilbury – Coalhouse Fort
11.14	Viewpoint 9: Oak Farm
11.15	Viewpoint 10: Wat Tyler Country Park
12.1	Phase 1 Habitat Survey of the Proposed GEC Site (taken from Thompson Ecology (April/May 2008)
12.2	Locations of Statutory Designated Sites within 10km of the proposed GEC Site
12.3	Locations of Non-Statutory Designated Sites within 5km of the Proposed GEC Site
12.4	Locations of the Mitigation Areas Proposed as Part of the LG Development
13.1	Indicative Water Balance Diagram

South Benfleet
CANVEY ISLAND
Fobbing
Corringham
Stanford-le-Hope
Horndon on the Hill
Mucking Flats
Blyth Sands
R I V E R T H A M E S
East Tilbury
Coalhouse Fort
Cliffe Marshes
Cooling Marshes
Halstow Marshes
Fobbing Marshes
Bowers Marshes
Vange
Langdon Hill
Stifflen Hill
Mucking Marshes
Coryton Wharves
Jetties
Thames Haven
Shellhaven Point
Lower Hope Point
Redham Mead
Swigshole
Decoy Pnd
Oil Storage Depot
Sports Centre
Water Gardens
Hadleigh Country Park
Hope's Green
Rookery Fm
Bowers Marsh
Pitsea Marsh
Wharf
Northwick
Flare
Deadman's Point
West Point
St Mary's Bay
Lower Dunton Hall
Langdon Hall Fm
Dry Street
Little Malgraves
Great Malgraves
Sutton Hall Fm
White Park Fm
Stocking Pl Hill
Lofthat Fm
Barrington's Fm
Bilgin
Low Street
Bowers
Kingswood
Vange Creek
Bowers Hall
Bowers Marsh Fm
Whitehall Cfm
Great Garlands Fm
Oak Fm
Old Hall
Mucking
Muc
Wks
Ch
Sch
Cem
Pub
Stn
Mus
Cas
Fm
Hse
Wf
Jty
Pier
Sp
Ldg
Bk
Cr
Gdns
Pk
Hill
Hall
Lodge
Cottages
Farm
Marsh
Creek
Point
Bay
Estate
Depot
Gardens
Country Park
Sports Centre
Water Gardens
Village Mus
Castle Point
Canvey Island
Hadleigh Country Park
Hope's Green
Rookery Fm
Bowers Marsh
Pitsea Marsh
Wharf
Northwick
Flare
Deadman's Point
West Point
St Mary's Bay
Oil Storage Depot



LEGEND

GEC APPLICATION SITE LOCATION

CECL POWER STATION LOCATION

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00

PARSONS BRINCKERHOFF

Parsons Brinckerhoff Ltd
Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 2261234 Fax: 44-(0191) 2262345

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
GEC APPLICATION SITE LAYOUT

• DATE 13/10/09
• SCALE 1:2500 @ A3
• CAD REF

DRAWN BY DD
PRODUCED BY DD
CHECKED EA
APPROVED

• DRAWING NUMBER
FIGURE 1.2 | –

© Copyright Parsons Brinckerhoff

LEGEND

GEC APPLICATION SITE LOCATION

REV	DATE	DESCRIPTION	BY	CHKD	APPD

00/00/00

• NOTES

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

PARSONS BRINCKERHOFF

Parsons Brinckerhoff Ltd
Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 2261234 Fax: 44-(0191) 2262345

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

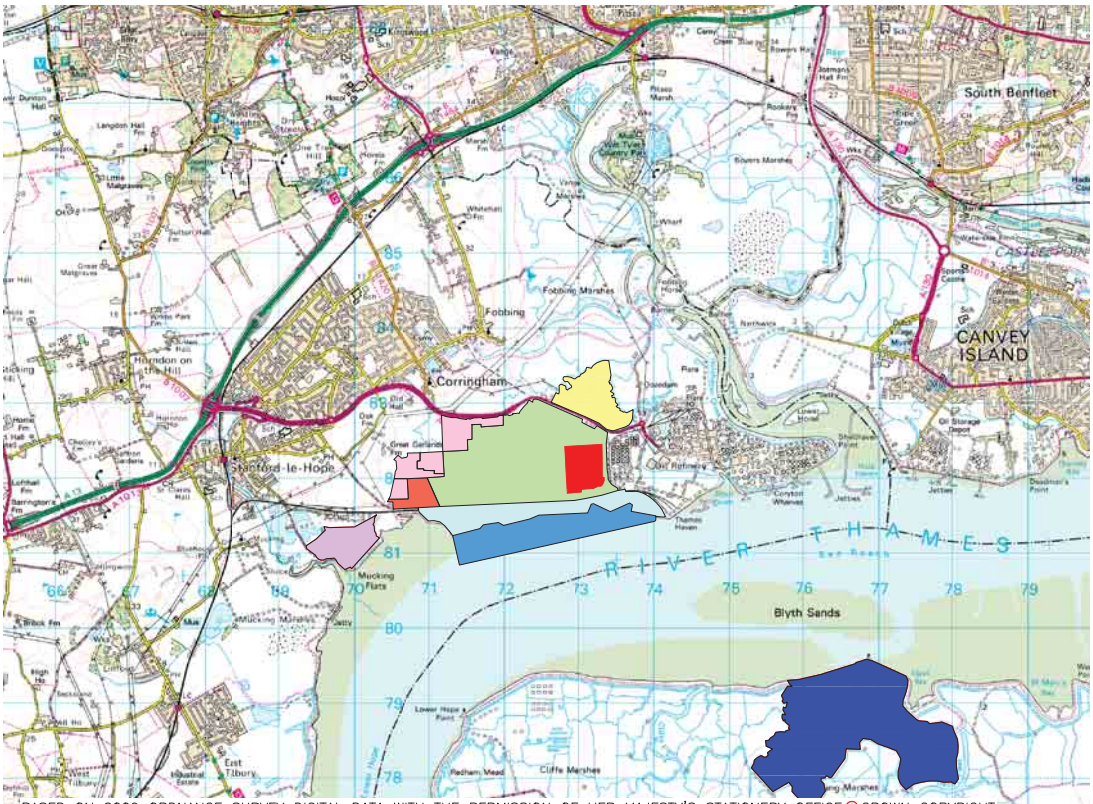
• TITLE
AERIAL PHOTOGRAPH SHOWING APPROXIMATE LOCATION OF GEC APPLICATION SITE

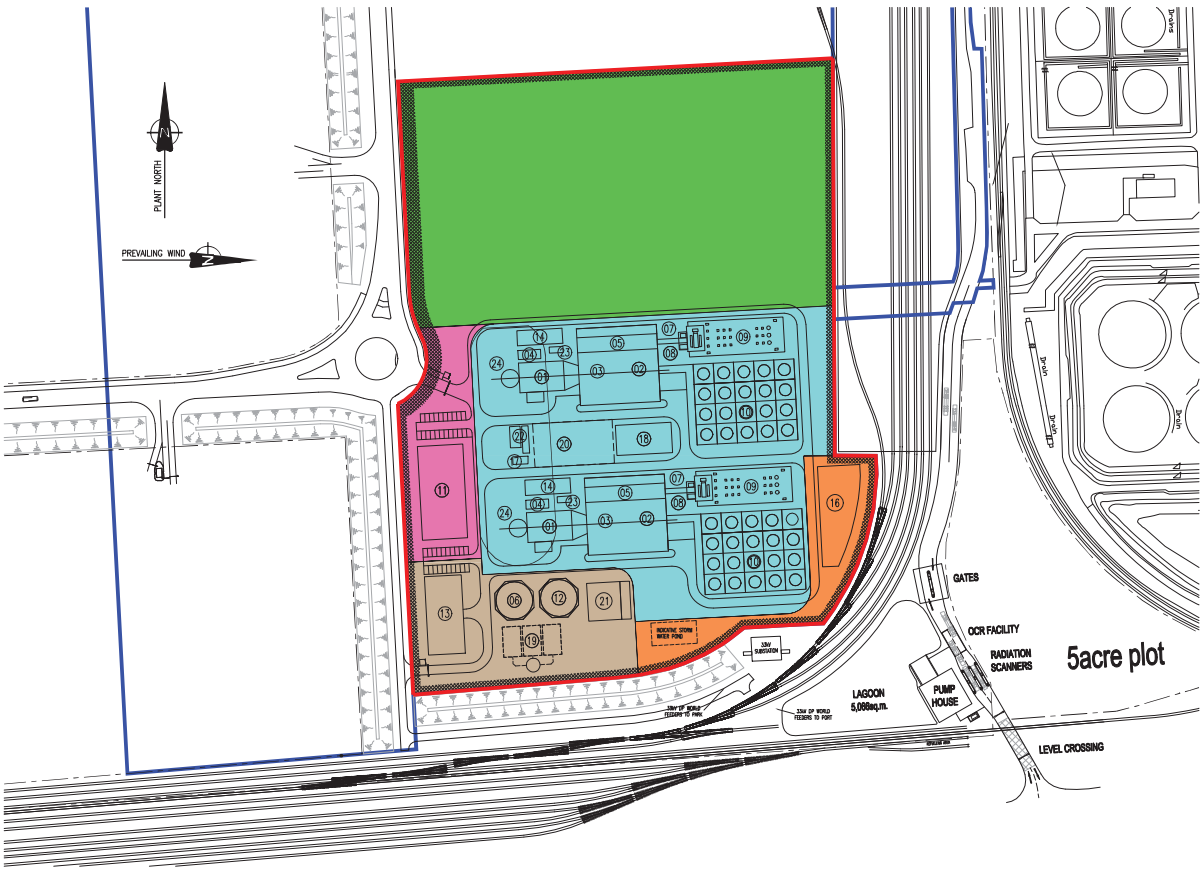
• DATE 15/02/10
• SCALE NTS
• CAD REF

DRAWN BY DD
PRODUCED BY DD
CHECKED EA
APPROVED

• DRAWING NUMBER
FIGURE 1.3 | –

© Copyright Parsons Brinckerhoff


South Benfleet
CANVEY ISLAND
Corringham
Fobbing
Stanford-le-Hope
Horndon on the Hill
Mucking Flats
Blyth Sands
Cliffe Marshes
Fobbing Marshes
Bowers Marshes
Oil Refinery
Oil Storage Depot
Jetties
Lower Hope Point
Redham Mead
Mucking Marshes
Gt Garland
Northwick
Canvey Creek
Vange
Rookery Fm
Bowers Hg
Wharf
Dunsden
Lower Hovel
Shellhaven Point
Canvey Wharves
Deadman's Point
Hadleigh Cas
Castle Point
Sports Centre
Kiln Mud
Winter Gdns
Water-cum-Ness
Northwick
Paris
Whitehall Fm
Marsh Fm
Mass Marsh
Vange Marshes
Rookery Fm
Bowers Hg
Norman's Hall Fm
Hope Green
Rushbury Hall
Langdon Hall Fm
Little Malgraves
Great Malgraves
Sutton Hall
Knipe Park Fm
Milton Park Fm
Dry Street
Hovels
Horndon Hse
Horndon Hse Fm
Checkers Fm
Lofthall Fm
Barrington's Fm
Home Fm
Hall Fm
Clerks Hill
Stanford Gardens
Bluehouse
Mucking Wharf
Brick Fm
Jetty
Mucking Marshes
Cliffe
Bell Ho
Bell Hill
High Ho
Bell Ho
Bell Hill
Tilbury
Industrial Estate
East Tilbury
Bostrick Ho
Whitehouse
Restrick Common
Oak Fm
Old Hall
Oak Fm
Sch
Sch
Sch



	STRUCTURE/PLANT	HEIGHT
	GAS RECEVING FACILITY	14m
	WATER STORAGE TANKS	23m
	ADMINISTRATION BLOCK	17m
	MAIN CCGT PLANT	42m
	STACKS ONLY WITHIN THIS AREA	75m
	CCS AREA	---

LEGEND

01 HEAT RECOVERY STEAM GENERATOR
02 STEAM TURBINE AREA
03 GAS TURBINE AREA
04 CO2 LOW PRESSURE STATION
05 GAS TURBINE INLET FILTER
06 DEMINERALIZED WATER STORAGE TANK
07 CTG MAIN TRANSFORMERS
08 STATION SERVICE TRANSFORMER
09 SWITCHYARD
10 AIR COOLED CONDENSER
11 WAREHOUSE/MAINT./ADMIN
12 WATER/ FIREWATER STORAGE TANK
13 WATER TREATMENT BUILDING
14 FIN FAN COOLERS
15 AUXILIARY BOILER
16 GAS CONDITIONING FACILITY
17 STG MAIN TRANSFORMER
18 CONTROL BUILDING
19 AUXILIARY BOILER FOR FUTURE CHP
20 POSSIBLE LAYDOWN/OPEN
21 GAS COMPRESSOR
22 AMMONIA OFFLOADING/STORAGE
23 AMMONIA INJECTION SKID
24 STACK

REV	DATE	DESCRIPTION	BY	CHKD	APPD

00/00/00

• NOTES

THIS LAYOUT IS INDICATIVE ONLY AND SUBJECT TO FURTHER ENGINEERING STUDIES DURING THE DEVELOPMENT PHASE

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

PARSONS BRINCKERHOFF
Parsons Brinckerhoff Ltd
Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 2261234 Fax: 44-(0191) 2262345

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE
SINGLE SHAFT

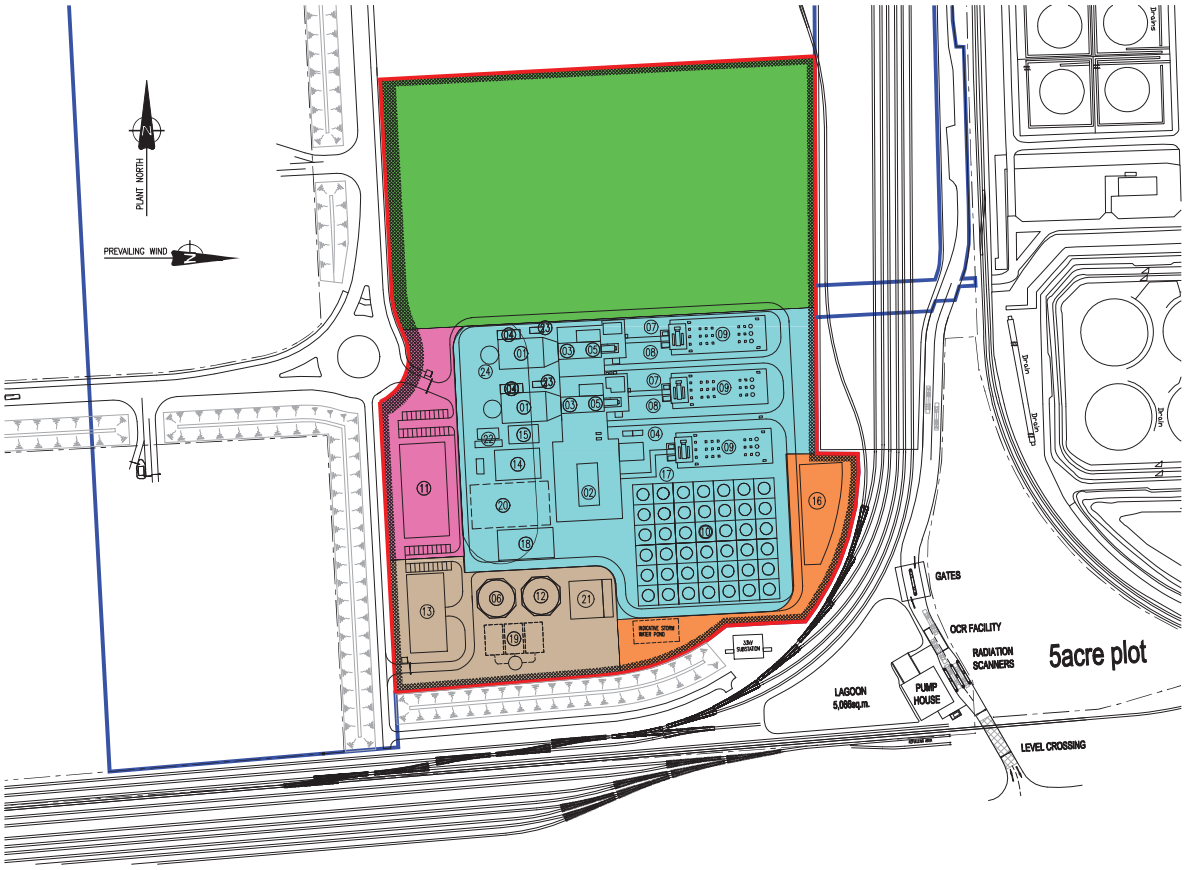
• TITLE
PROPOSED INDICATIVE LAYOUT
900MW CCGT

• DATE 19/08/09
• SCALE 1:2500 @ A3
• CAD REF

DRAWN BY DD
PRODUCED BY DD
CHECKED EA
APPROVED

• DRAWING NUMBER
FIGURE 4.1 | –

© Copyright Parsons Brinckerhoff



	STRUCTURE/PLANT	HEIGHT
	GAS RECEVING FACILITY	14m
	WATER STORAGE TANKS	23m
	ADMINISTRATION BLOCK	17m
	MAIN CCGT PLANT STACKS ONLY WITHIN THIS AREA	42m 75m
	CCS AREA	---

LEGEND

01 HEAT RECOVERY STEAM GENERATOR
02 STEAM TURBINE AREA
03 GAS TURBINE AREA
04 CO2 LOW PRESSURE STATION
05 GAS TURBINE INLET FILTER
06 DEMINERALIZED WATER STORAGE TANK
07 CTG MAIN TRANSFORMERS
08 STATION SERVICE TRANSFORMER
09 SWITCHYARD
10 AIR COOLED CONDENSER
11 WAREHOUSE/MAINT./ADMIN
12 WATER/ FIREWATER STORAGE TANK
13 WATER TREATMENT BUILDING
14 FIN FAN COOLERS
15 AUXILIARY BOILER
16 GAS CONDITIONING FACILITY
17 STG MAIN TRANSFORMER
18 CONTROL BUILDING
19 AUXILIARY BOILER FOR FUTURE CHP
20 POSSIBLE LAYDOWN/OPEN
21 GAS COMPRESSOR
22 AMMONIA OFFLOADING/STORAGE
23 AMMONIA INJECTION SKID
24 STACK

REV	DATE	DESCRIPTION	BY	CHKD	APPD

00/00/00

• NOTES

THIS LAYOUT IS INDICATIVE ONLY AND SUBJECT TO FURTHER ENGINEERING STUDIES DURING THE DEVELOPMENT PHASE

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

PARSONS BRINCKERHOFF

Parsons Brinckerhoff Ltd
Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 2261234 Fax: 44-(0191) 2262345

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE
MULTI SHAFT

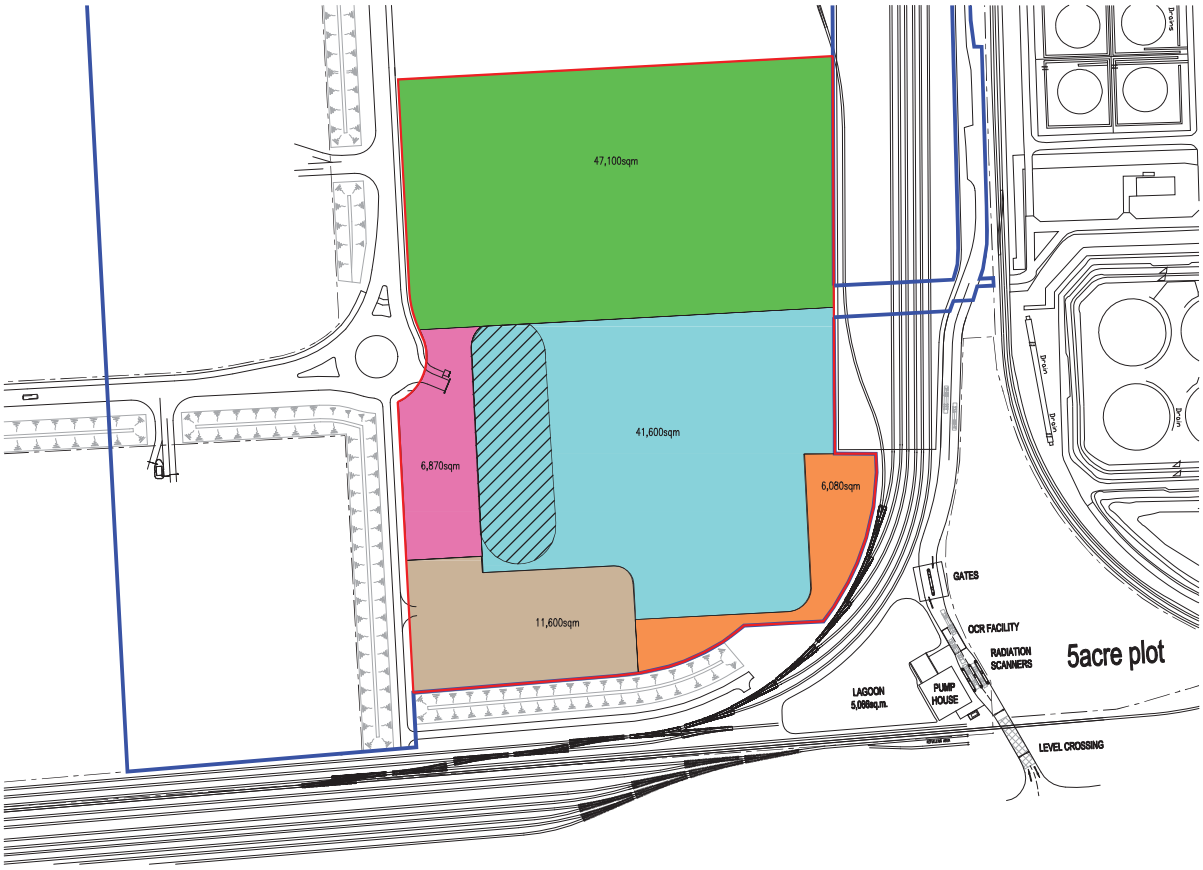
• TITLE
PROPOSED INDICATIVE LAYOUT
900MW CCGT

• DATE 19/08/09
• SCALE 1:2500 @ A3
• CAD REF

DRAWN BY DD
PRODUCED BY DD
CHECKED EA
APPROVED

• DRAWING NUMBER
FIGURE 4.2 | –

© Copyright Parsons Brinckerhoff



	STRUCTURE/PLANT	HEIGHT
	GAS RECEVING FACILITY	14m
	WATER STORAGE TANKS	23m
	ADMINISTRATION BLOCK	17m
	MAIN CCGT PLANT	42m
	STACKS ONLY WITHIN THIS AREA	75m
	CCS AREA	---

0 50m 100m 150m

BAR SCALE 1:2500

REV	DATE	DESCRIPTION	BY	CHKD	APPD

00/00/00

• NOTES

THIS LAYOUT IS INDICATIVE ONLY AND SUBJECT TO FURTHER ENGINEERING STUDIES DURING THE DEVELOPMENT PHASE

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

PARSONS BRINCKERHOFF

Parsons Brinckerhoff Ltd
Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 2261234 Fax: 44-(0191) 2262345

• CLIENT/PROJECT

GATEWAY ENERGY CENTRE

• TITLE

PROPOSED INDICATIVE LAYOUT / PARAMETER BLOCK MODEL LAYOUT

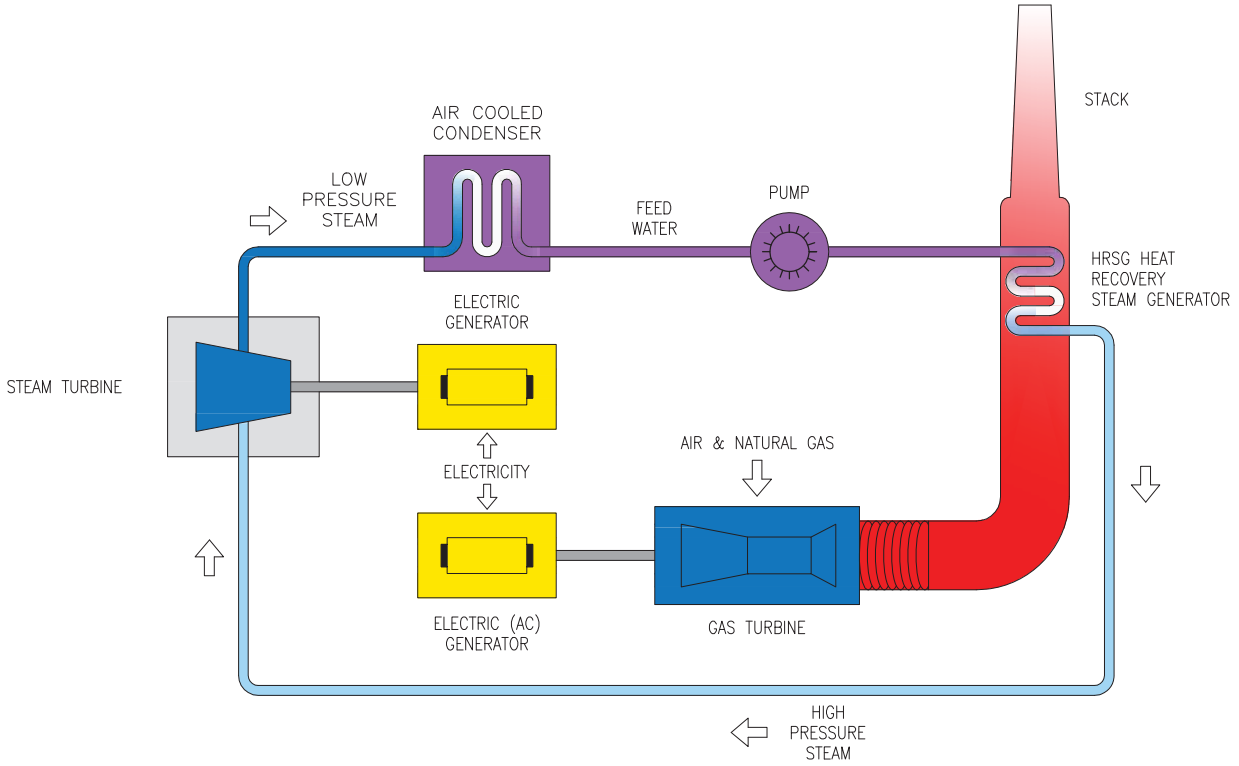
• DATE 19/08/09
• SCALE 1:2500 @ A3
• CAD REF

DRAWN BY DD
PRODUCED BY DD
CHECKED EA
APPROVED

• DRAWING NUMBER

FIGURE 4.3 | –

© Copyright Parsons Brinckerhoff



REV	DATE	DESCRIPTION	BY	CHKD	APPD

00/00/00

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 2261234 Fax: 44-(0191) 2262345

© Copyright Parsons Brinckerhoff

Copyright in this drawings belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied as reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

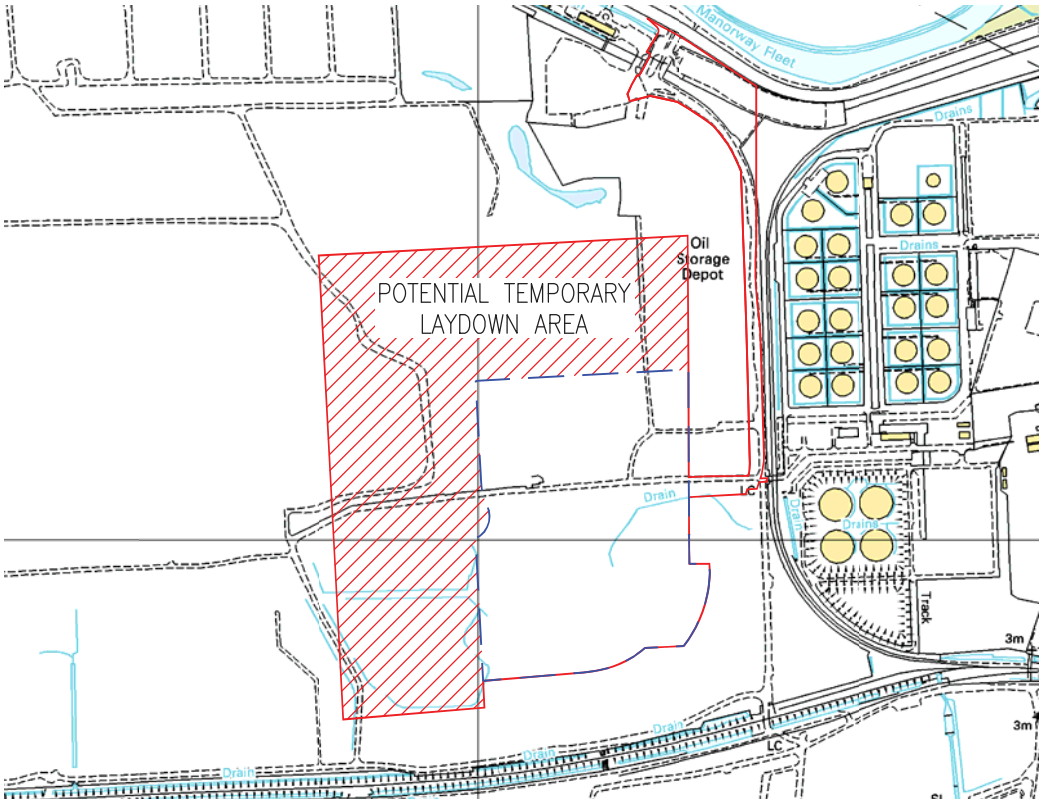
• TITLE
SCHEMATIC OF COMBINED CYCLE GAS TURBINE

• DATE 13/10/09
• SCALE NTS
• CAD REF

DRAWN BY	DD
PRODUCED BY	DD
CHECKED	EA
APPROVED	EA

• DRAWING NUMBER
FIGURE 4.4 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND



REV	DATE	DESCRIPTION	BY	CHKD	APPD

00/00/00

• NOTES

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

PARSONS BRINCKERHOFF

Parsons Brinckerhoff Ltd
Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 2261234 Fax: 44-(0191) 2262345

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
POTENTIAL TEMPORARY LAYDOWN AREA

• DATE 19/08/09
• SCALE 1:5000 @ A3
• CAD REF

DRAWN BY	DD
PRODUCED BY	DD
CHECKED	EA
APPROVED	

• DRAWING NUMBER
FIGURE 4.5 | –

© Copyright Parsons Brinckerhoff

BASED UPON 2006 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APVD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Arden Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 226 1234 Fax: 44-(0191) 226 2441

© Copyright Parsons Brinckerhoff

Copyright in this drawings belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
GEC GAS PIPELINE ROUTE OPTIONS

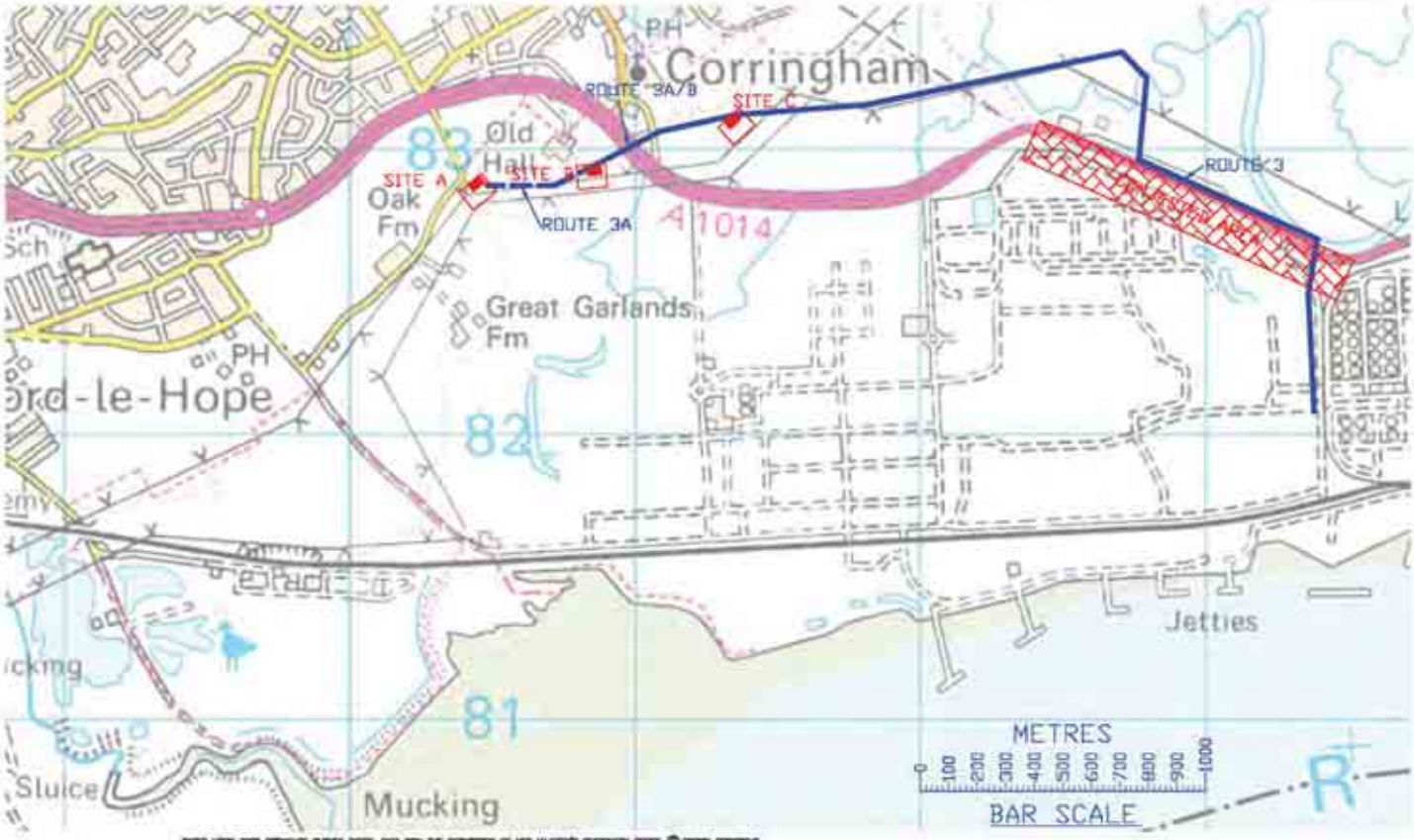
• DATE 17/02/2010
• SCALE N/A
• CAD REF TRW, FIG 6.1

DRAWN BY	TRW
PRODUCED BY	EM
CHECKED	EM
APPROVED	MW

• DRAWING NUMBER
FIGURE 6.1 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00



BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	(CHKD)	APPR
1	22/02/2010	ROUTES 1, 2 DELETED. ROUTE 3 MODIFIED.	TRW	EA	MW

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Anister Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 2261234 Fax: 44-(0191) 2262345

© Copyright Parsons Brinckerhoff

Copyright in the drawings belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
GEC ELECTRICAL CONNECTIONS
ROUTE OPTIONS

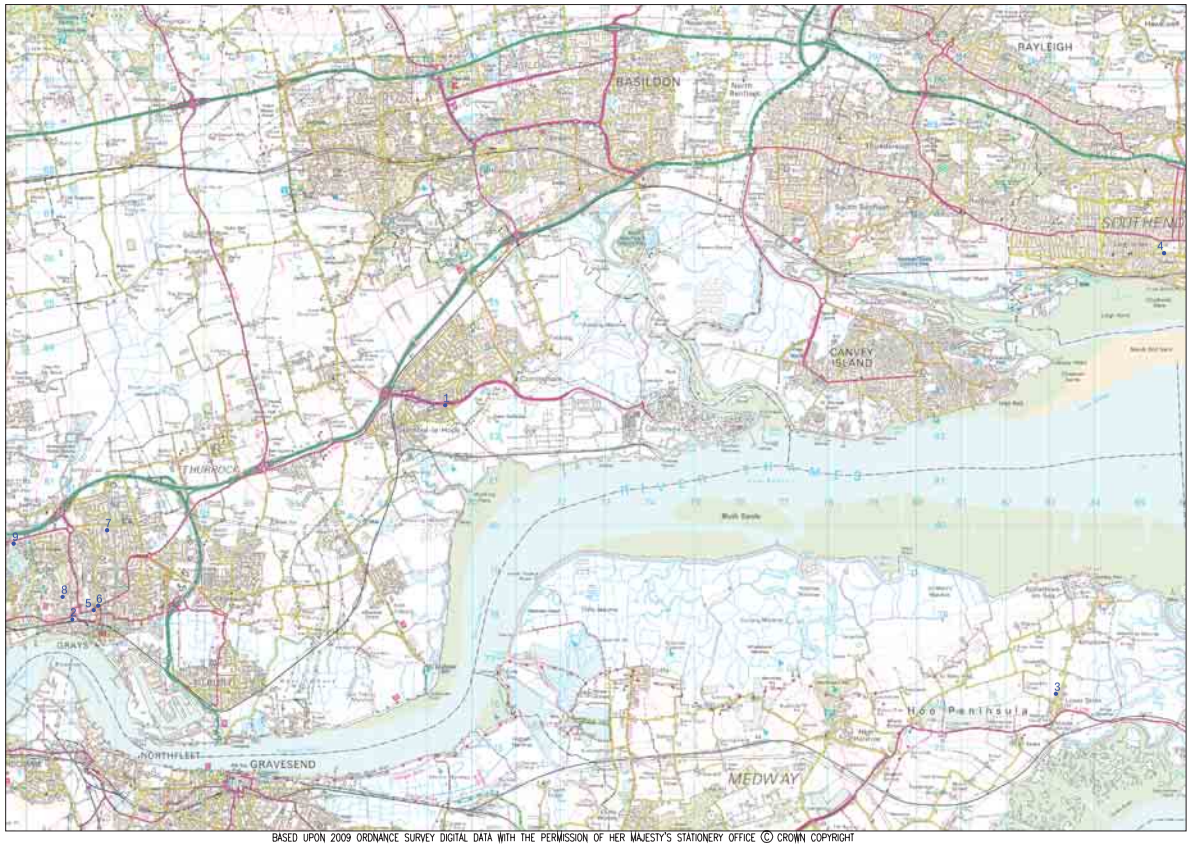
• DATE 24/02/2010
• SCALE N/A
• CAD REF TRW, FIG 6.2

DRAWN BY	TRW
PRODUCED BY	EM
CHECKED	EM
APPROVED	MW

• DRAWING NUMBER
FIGURE 6.2 | 1

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

02/02/08



BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

00/00/00

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 2261234 Fax: 44-(0191) 2262345

© Copyright Parsons Brinckerhoff

Copyright in this drawings belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied as reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

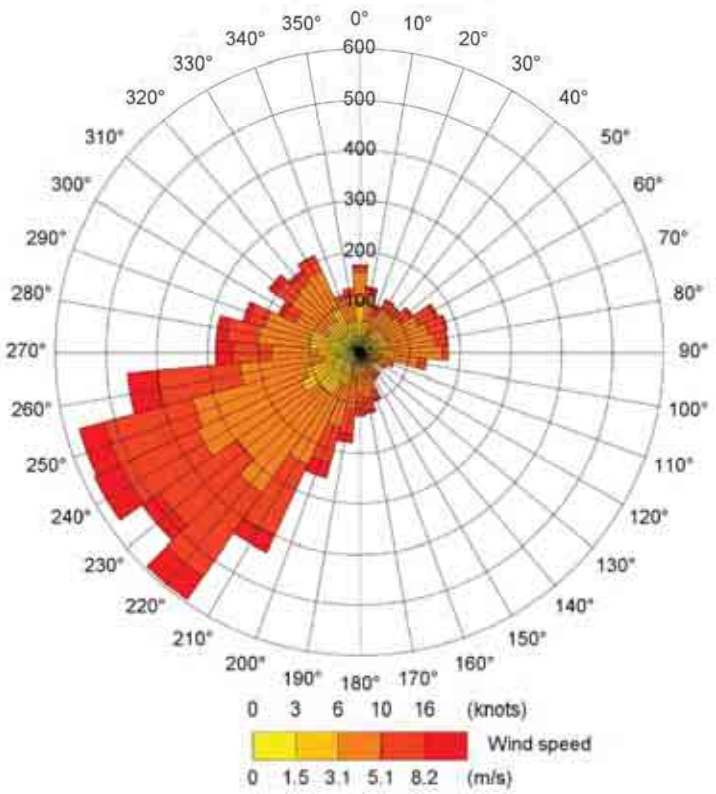
• TITLE
LOCATION OF AIR QUALITY MONITORING STATIONS

• DATE 24/02/2010
• SCALE N.T.S
• CAD REF

DRAWN BY	PDO
PRODUCED BY	EA
CHECKED	EA
APPROVED	MW

• DRAWING NUMBER
FIGURE 9.1 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND



REV	DATE	DESCRIPTION	BY	CHKD	APPD

00/00/00

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff
Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 2261234 Fax: 44-(0191) 2262345

© Copyright Parsons Brinckerhoff
Copyright in this drawings belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied as reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

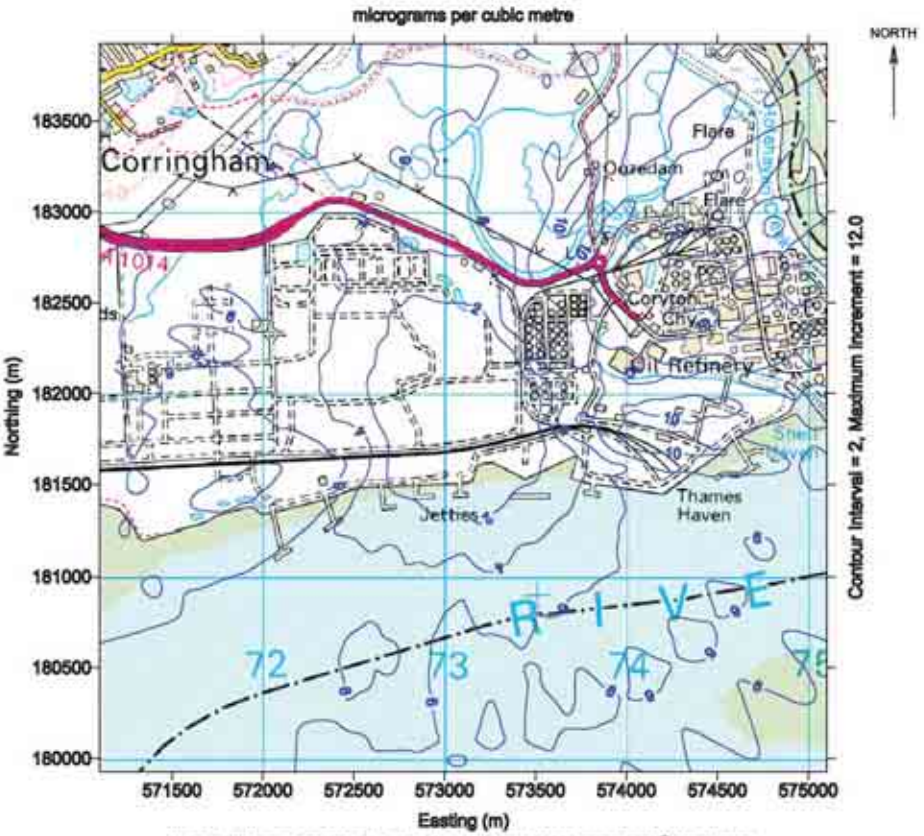
• TITLE
WINDROSE 2008

• DATE 26/10/09
• SCALE N.T.S
• CAD REF

DRAWN BY	PDO
PRODUCED BY	EA
CHECKED	EA
APPROVED	MW

• DRAWING NUMBER
FIGURE 9.2 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND



BASED UPON 2005 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	(CHKD)	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 226 1234 Fax: 44-(0191) 226 2043

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
19TH HIGHEST HOURLY AVERAGE CONCENTRATION OF NO_2
4 x 4km GRID

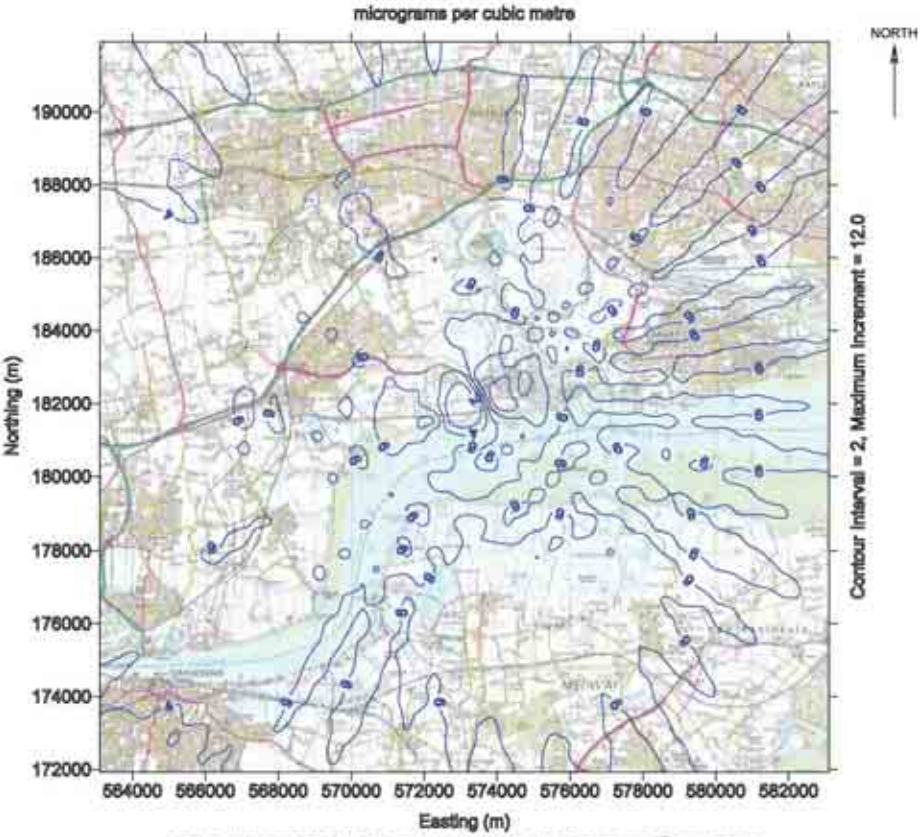
• DATE 19/02/2010
• SCALE N.T.S
• CAD REF

DRAWN BY PDO
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 9.3 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

02/02/00



BASED UPON 2006 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Andrew Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44 (0191) 226 1234 Fax: 44 (0191) 226 2345

© Copyright Parsons Brinckerhoff

Copyright in this drawings belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
19th HIGHEST HOURLY AVERAGE CONCENTRATIONS OF NO_2
20x20km GRID

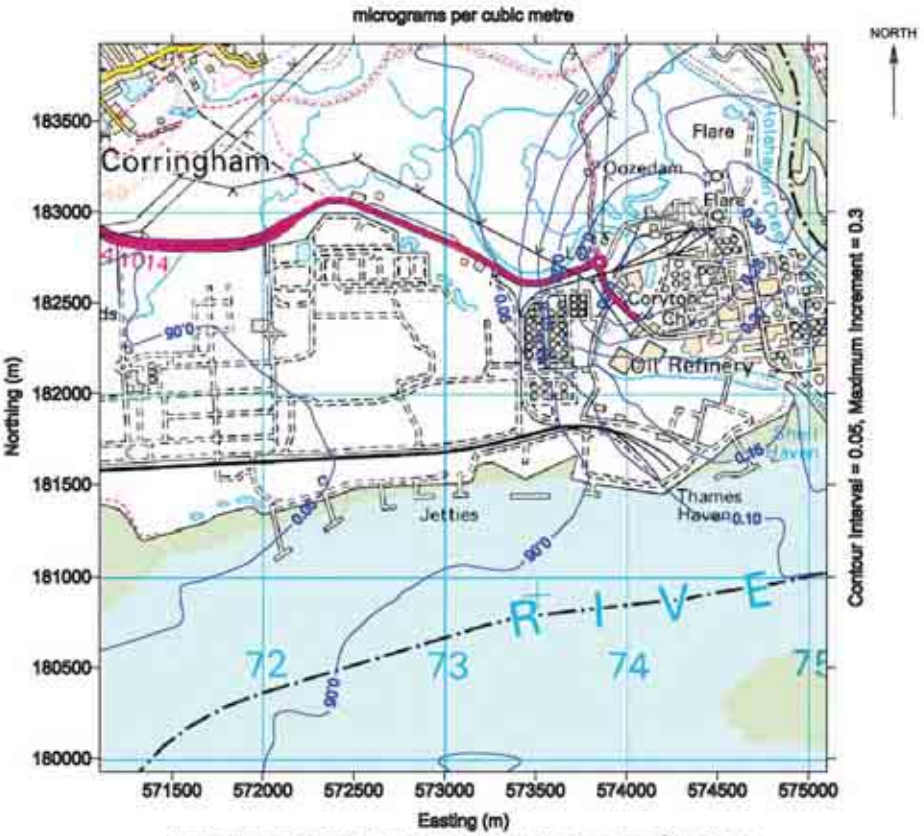
• DATE 19/02/2010
• SCALE N.T.S
• CHD REF

DRAWN BY PDO
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 9.4

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

06/06/06



BASED UPON 2005 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: +44 (0191) 226 2324 Fax: +44 (0191) 226 2348

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
MAXIMUM ANNUAL AVERAGE GROUND LEVEL CONCENTRATION OF NO_2
4 x 4km GRID

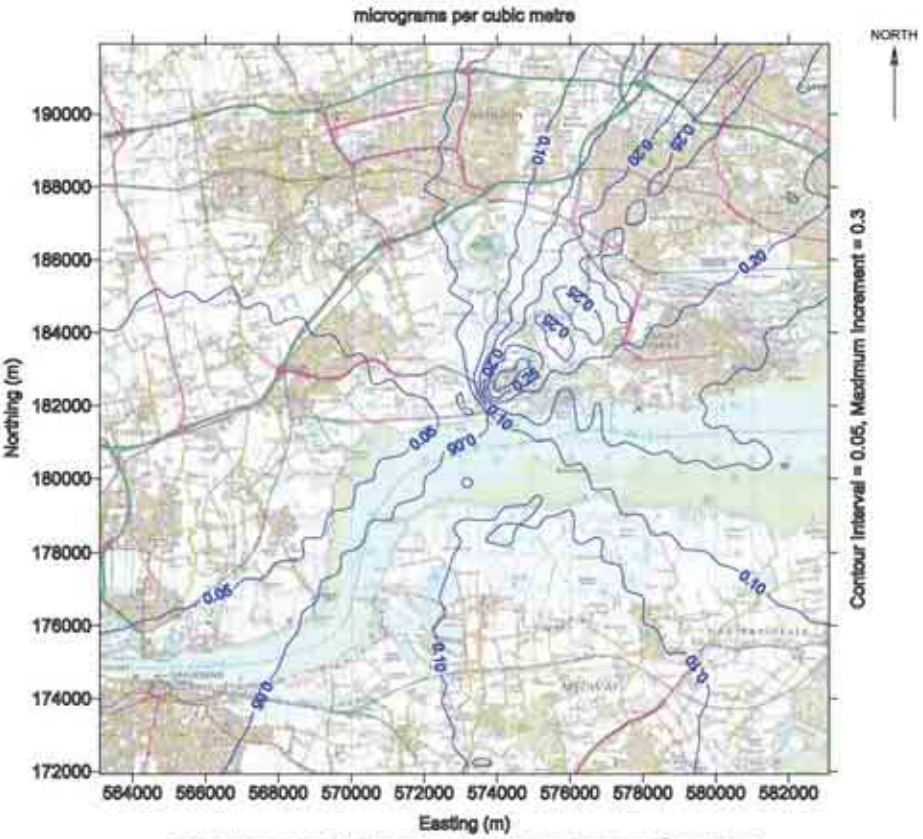
• DATE 19/02/2010
• SCALE N.T.S.
• CAD REF

DRAWN BY	PDO
PRODUCED BY	EA
CHECKED	EA
APPROVED	MW

• DRAWING NUMBER
FIGURE 9.5 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

90/00/00



BASED UPON 2006 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Andrew Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44 (0)191 226 1234 Fax: 44 (0)191 226 2000

© Copyright Parsons Brinckerhoff

Copyright in this drawings belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
MAXIMUM ANNUAL AVERAGE GROUND LEVEL CONCENTRATION OF NO_2
20x20km GRID

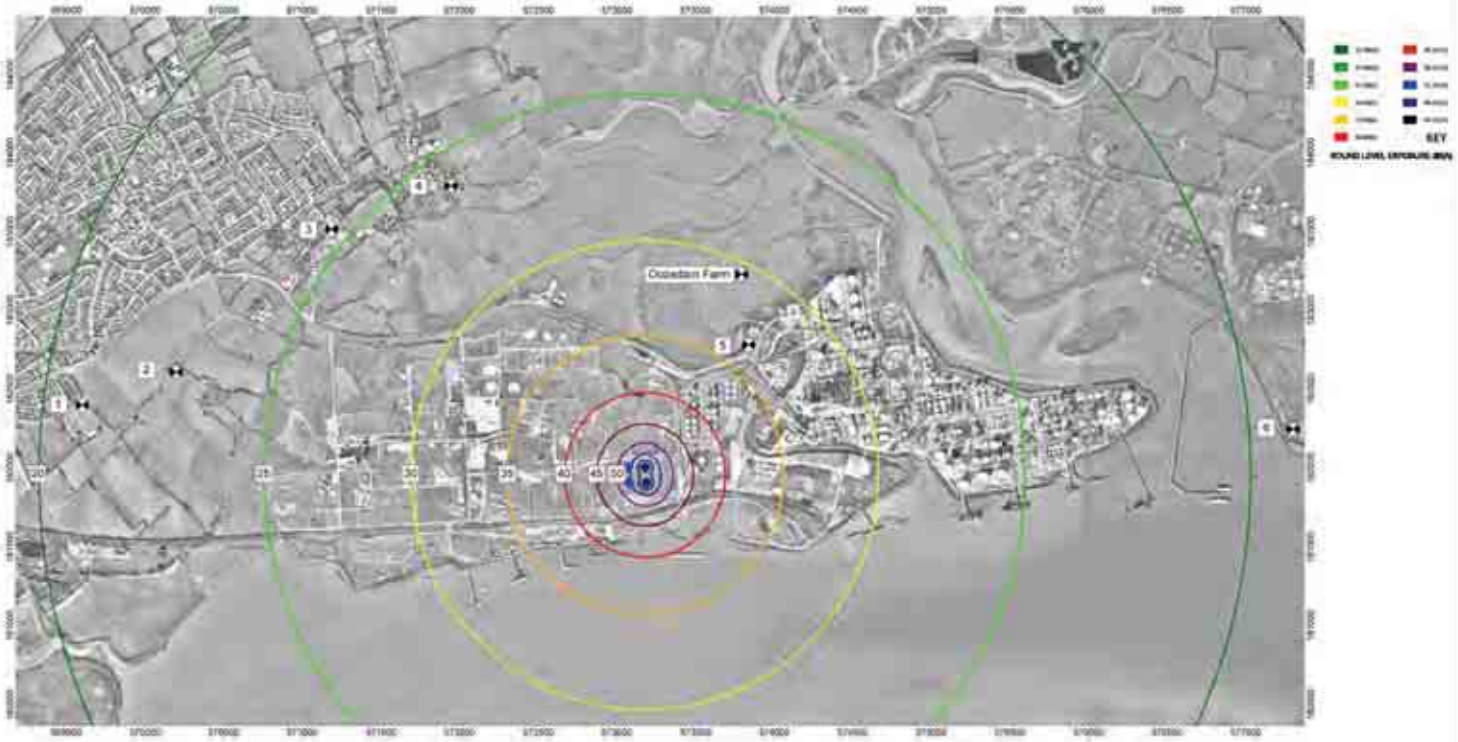
• DATE 19/02/2010
• SCALE N.T.S
• CHD REF

DRAWN BY	PDG
PRODUCED BY	EA
CHECKED	EA
APPROVED	MW

• DRAWING NUMBER
FIGURE 9.6 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00



REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Arkwright Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 226 2241 Fax: 44-(0191) 226 2249

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, copied, licensed, transferred, loaned or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
LOCATIONS OF NOISE SENSITIVE RECEPTORS / PREDICTED OPERATIONAL NOISE CONTOUR PLOT

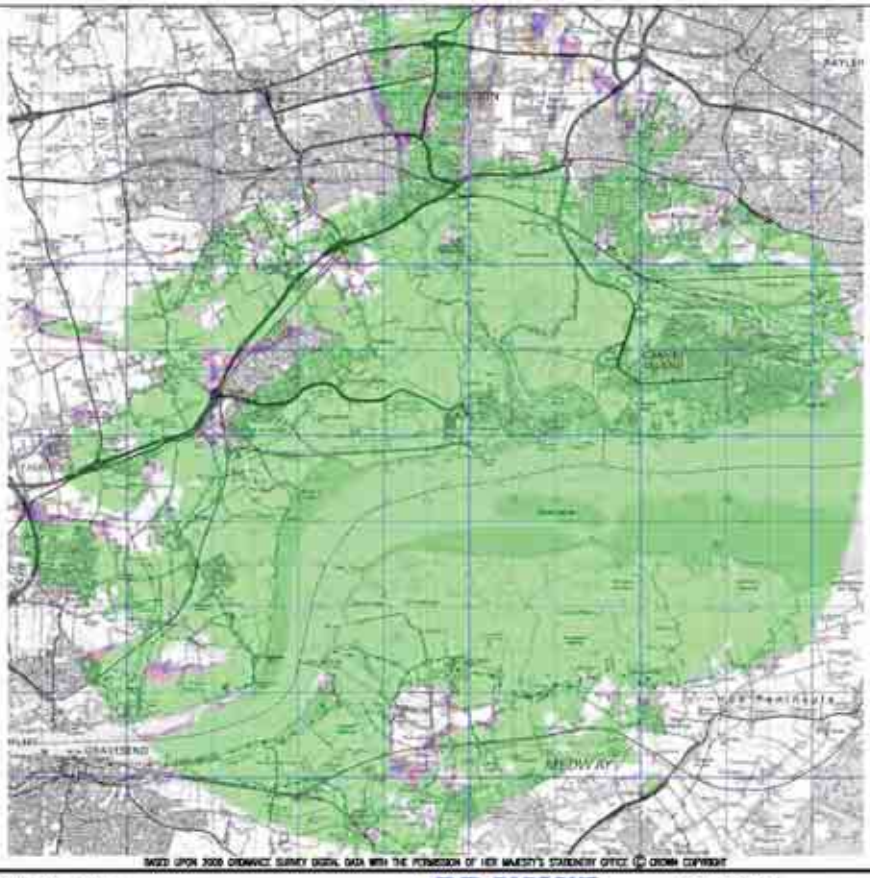
• DATE 18/02/2010
• SCALE N.T.S
• DWG REF

DRAWN BY PDD
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 10.1 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00



BASED UPON 2000 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	(CHKD)	APPD

• NOTES

PB PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Arbour Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 226 0334 Fax: 44-(0191) 226 0343

© Copyright Parsons Brinckerhoff

Copyright in the drawings belongs to Parsons Brinckerhoff Ltd. The drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
ZONE OF THEORETICAL VISIBILITY

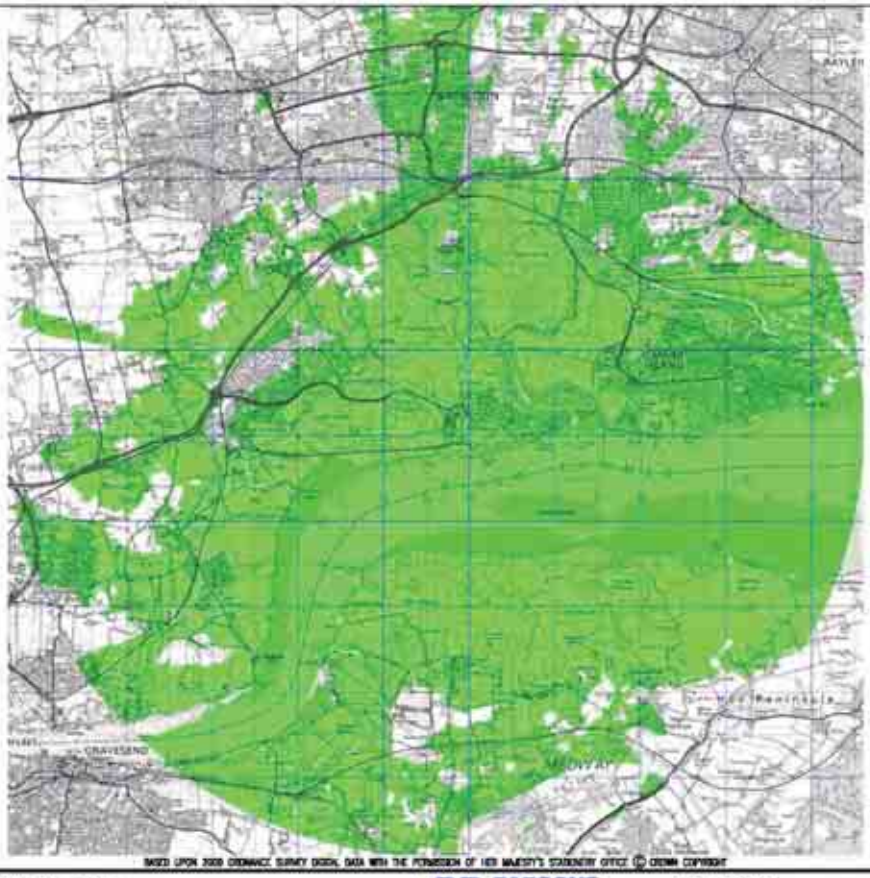
• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY PDO
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 11.1 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00



BASED UPON 2000 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	(CHKD)	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Anchor Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 226 0224 Fax: 44-(0191) 226 0243

© Copyright Parsons Brinckerhoff

Copyright in the drawings belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
ZONE OF THEORETICAL VISIBILITY FOR 75m STACKS

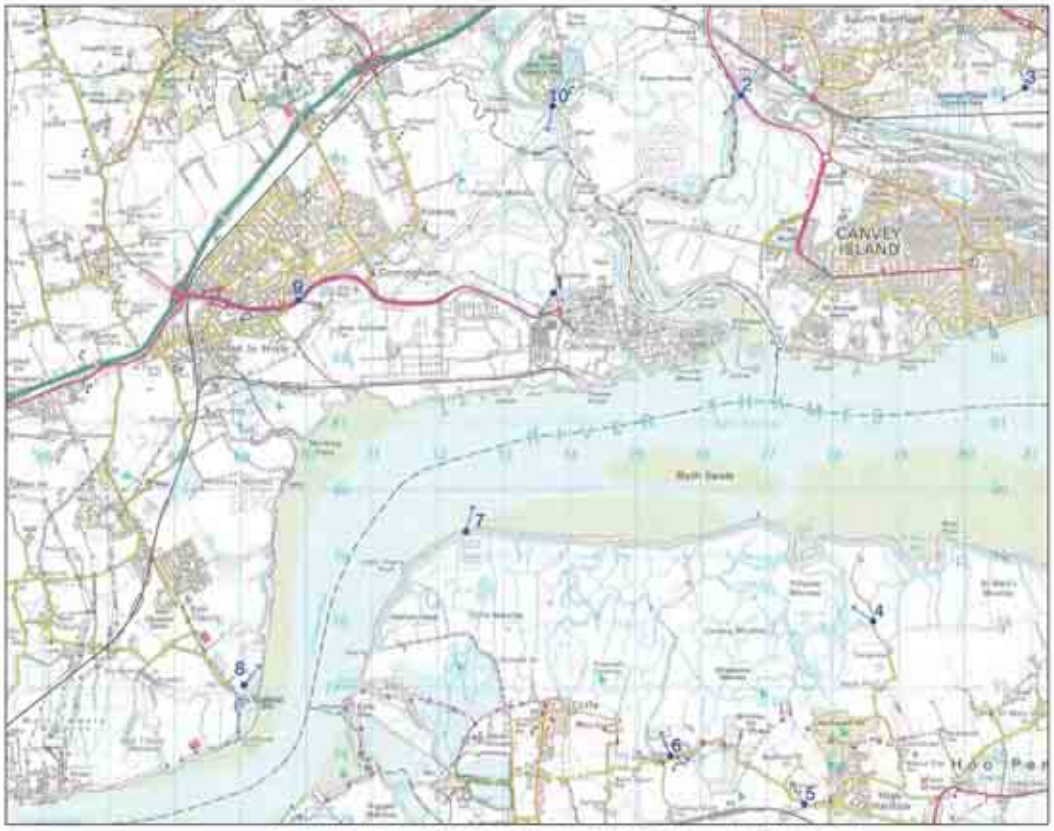
• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY	PDO
PRODUCED BY	EA
CHECKED	EA
APPROVED	MW

• DRAWING NUMBER
FIGURE 11.2 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00



NORTH

VIEWPOINT 1: OZEDAM COUNTRY ROAD
VIEWPOINT 2: ROAD BRIDGE ON THE CANVEY WAY (A130)
VIEWPOINT 3: HADLEIGH CASTLE
VIEWPOINT 4: SWIGGHOLE
VIEWPOINT 5: NORTHWARD HILL (CORNER OF COOLING ROAD AND WYBOURNES LANE)
VIEWPOINT 6: COOLING
VIEWPOINT 7: CLIFFE MARSHES NORTHERN BORDER WITH THAMES
VIEWPOINT 8: EAST TILBURY - COALHOUSE FORT
VIEWPOINT 9: OAK FARM
VIEWPOINT 10: WAT TYLER COUNTRY PARK

BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff
Archer Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44 (0191) 226 7234 Fax: 44 (0191) 226 2345

© Copyright Parsons Brinckerhoff
Copyright in the drawings belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
LOCATION OF VIEWPOINTS SELECTED

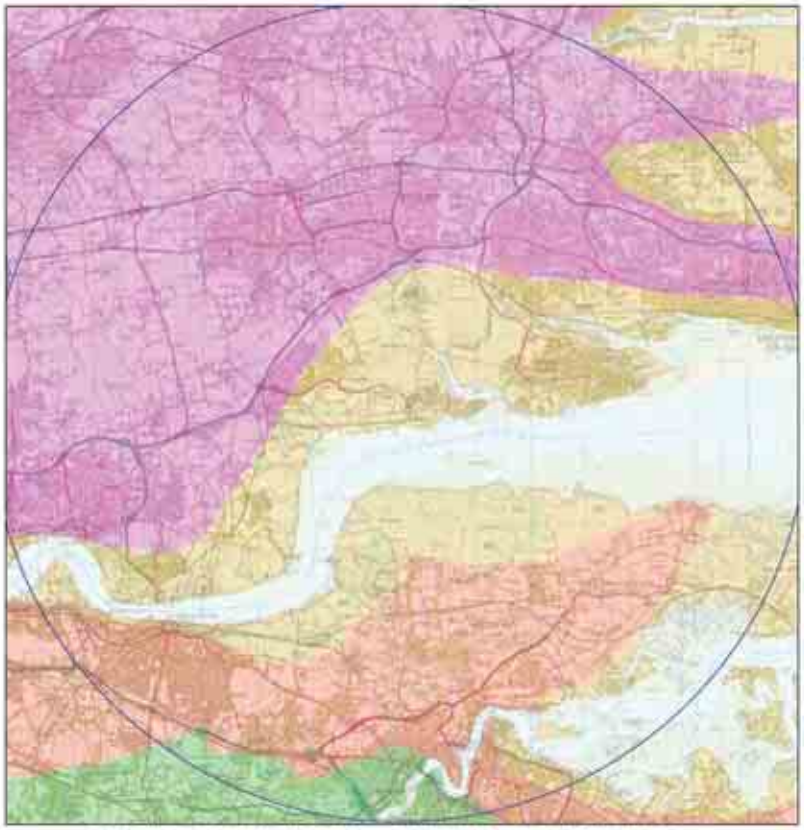
• DATE 18/02/2010
• SCALE N.T.S
• CHO REF

DRAWN BY PDO
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 11.3

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00



NORTH

KEY

- NORTH DOWNS
- GREATER THAMES ESTUARY
- NORTH KENT PLAIN
- NORTHERN THAMES BASIN

BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Anchor Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 2261234 Fax: 44-(0191) 2262345

© Copyright Parsons Brinckerhoff

Copyright in this drawings belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
NATIONAL LANDSCAPE CHARACTER AREAS WITHIN 15KM OF THE SITE

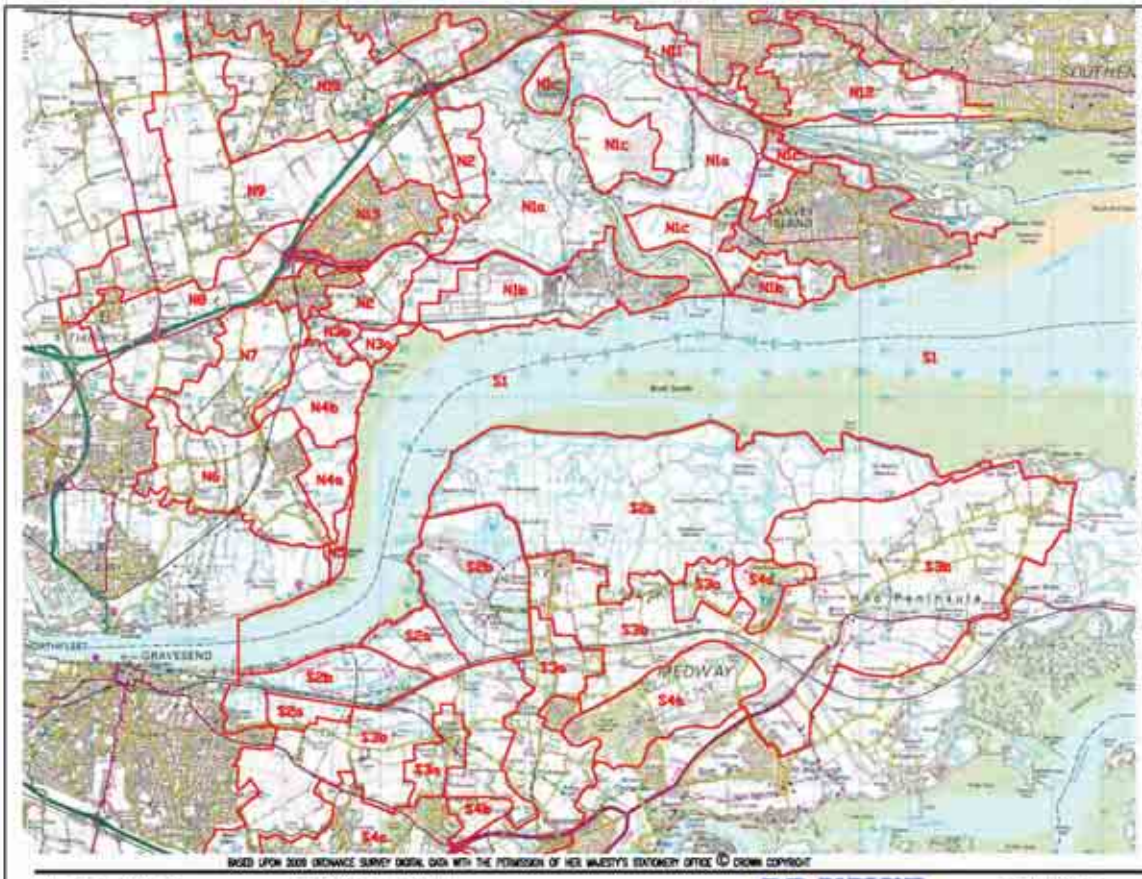
• DATE 18/02/2010
• SCALE N.T.S
• CHD REF

DRAWN BY	PDG
PRODUCED BY	EA
CHECKED	EA
APPROVED	MW

• DRAWING NUMBER
FIGURE 11.4 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00



BASED UPON 2005 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

KEY

LANDSCAPE CHARACTER AREAS LIKELY TO EXPERIENCE LANDSCAPE AND/ OR VISUAL EFFECTS BOTH SIDES OF THE RIVER THAMES.

'N' REFERENCES INDICATE NORTH OF THE RIVER THAMES.
'S' REFERENCES INDICATE SOUTH OF THE RIVER THAMES.

- N1 NORTHERN THAMES MARSHES
  - N1a OPEN COASTAL MARSHES
  - N1b INDUSTRIAL MARSH
  - N1c MARSHLAND FRINGE
- N2 FOBBING & CORRINGHAM
- N3 STANFORD MARSHES
  - N3a OPEN COASTAL MARSHES
  - N3b MARSHLAND FRINGE
- N4 MUCKING
  - N4a OPEN COASTAL MARSHES
  - N4b MARSHLAND FRINGE
- N5 COALHOUSE
- N6 EAST TILBURY
- N7 LINFORD/ BUCKINGHAM HILL RIDGE
- N8 ORSETT/ SAFFRON GARDEN
- N9 HORNDON
- N10 LANGDON HILLS
- N11 PITSEA RIDGE
- N12 HADLEIGH & SOUTH BENFLEET
- N13 THE MANOR WAY CORRIDOR
- S1 RIVER THAMES
- S2 EASTERN THAMES MARSHES
  - S2a OPEN COASTAL MARSHES
  - S2b MARSHLAND FRINGE
- S3 HOO PENINSULA FLAT OR UNDULATING FARMLAND
  - S3a MIXED FARMLAND
  - S3b OPEN FARMLAND
- S4 HOO PENINSULA PROMINENT HILLS
  - S4a WOODED HILLS & RIDGES
  - S4b OPEN FARMED HILLS & RIDGES

0 1km 2km 3km 4km 5km
BAR SCALE

REV	DATE	DESCRIPTION	BY	CHKD	APVD

• NOTES

PB PARSONS BRINCKERHOFF

Parsons Brinckerhoff
Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 226 0224 Fax: 44-(0191) 226 2349

© Copyright Parsons Brinckerhoff
Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
LOCAL LANDSCAPE CHARACTER AREAS

• DATE 17/02/2010
• SCALE N/A
• CAD REF TRW, FIG 11.5

DRAWN BY	TRW
PRODUCED BY	EM
CHECKED	EM
APPROVED	MW

• DRAWING NUMBER
FIGURE 11.5 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00

EXISTING VIEW

PHOTOMONTAGE

BASED UPON 2006 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Aviator Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44 (0191) 2261200 Fax: 44 (0191) 2660340

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
VIEWPOINT 1
OOZEDAM COUNTRY ROAD

• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY	POD
PRODUCED BY	EA
CHECKED	EA
APPROVED	MW

• DRAWING NUMBER
FIGURE 11.6 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

06/06/06

EXISTING VIEW

PHOTOMONTAGE

BASED UPON 2008 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44 (0191) 226120 Fax: 44 (0191) 226340

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
VIEWPOINT 2
ROAD BRIDGE ON THE
CANVEY WAY (A130)

• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY PDD
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 11.7 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00

EXISTING VIEW

PHOTOMONTAGE

BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44 (0191) 226 1234 Fax: 44 (0191) 226 3243

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
VIEWPOINT 3
HADLEIGH CASTLE

• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY	PDO
PRODUCED BY	EA
CHECKED	EA
APPROVED	MW

• DRAWING NUMBER
FIGURE 11.8 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

06/09/09

EXISTING VIEW

PHOTOMONTAGE

BASED UPON 2008 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44 (0191) 226 2224 Fax: 44 (0191) 226 2243

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
VIEWPOINT 4
SWYGSHOLE

• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY PDD
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 11.9 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00

EXISTING VIEW

PHOTOMONTAGE

BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 226 5224 Fax: 44-(0191) 226 5343

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
VIEWPOINT 5
NORTHWARD HILL (CORNER OF COOLING ROAD & WYBOURNES LANE)

• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY PDO
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 11.10 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

02/02/09

EXISTING VIEW

PHOTOMONTAGE

BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 226 2324 Fax: 44-(0191) 226 2343

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
VIEWPOINT 6
COOLING

• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY PDD
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 11.11 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

02/02/00

EXISTING VIEW

PHOTOMONTAGE

BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Aviator Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44 (0191) 226 2024 Fax: 44 (0191) 226 2043

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
VIEWPOINT 7
CLIFFE MARSHES NORTHERN BORDER WITH THAMES

• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY POD
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 11.12 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

30/06/09

EXISTING VIEW

PHOTOMONTAGE

BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44 (0191) 226 0200 Fax: 44 (0191) 226 0240

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
VIEWPOINT 8
EAST TILBURY
COALHOUSE FORT

• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY POD
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 11.13 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

30/04/09

EXISTING VIEW

PHOTOMONTAGE

BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Amber Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44 (0191) 226 2324 Fax: 44 (0191) 226 2340

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
VIEWPOINT 9
OAK FARM

• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY POD
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 11.14 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

30/09/09

EXISTING VIEW

PHOTOMONTAGE

BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Arbor Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44-(0191) 226120 Fax: 44-(0191) 2260240

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
VIEWPOINT 10
WAT TYLER COUNTRY PARK

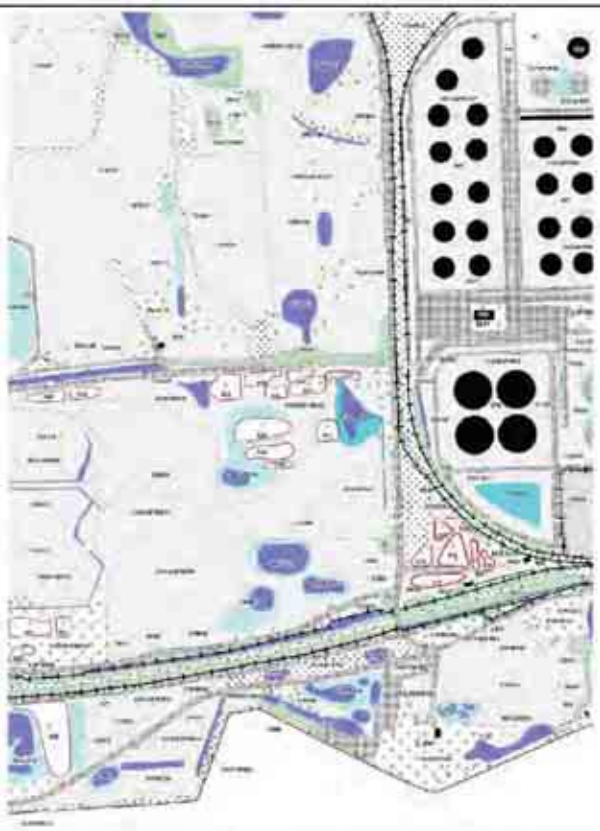
• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY POD
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 11.15 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

30/09/09



NORTH

- Dense / Continuous Scrub
- Hardstanding
- Inundation Swamp
- Semi Improved Grassland
- Swamp
- Scattered Shrub
- Spoil
- Bare Ground

BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APVD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

© Copyright Parsons Brinckerhoff

Copyright in this drawing subsists in Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
PHASE 1 HABITAT SURVEY OF THE PROPOSED GEC SITE (TAKEN FROM THOMSON ECOLOGY (APR/MAY 2008)

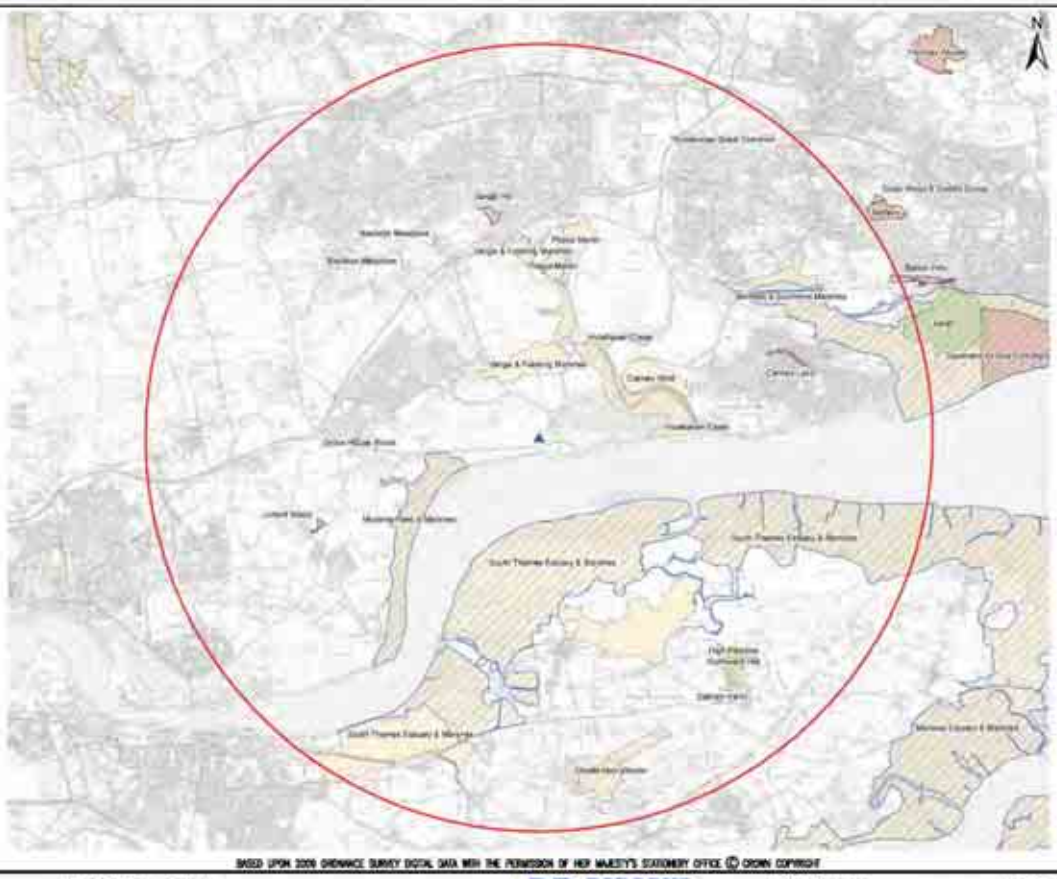
• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY PDO
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 12.1 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00



BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Arpley Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel. +44 (0191) 226 1224 Fax. +44 (0191) 226 2140

© Copyright Parsons Brinckerhoff

Copyright in the drawings belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
LOCATIONS OF STATUTORY DESIGNATED SITES WITHIN 10km OF THE PROPOSED GEC SITE

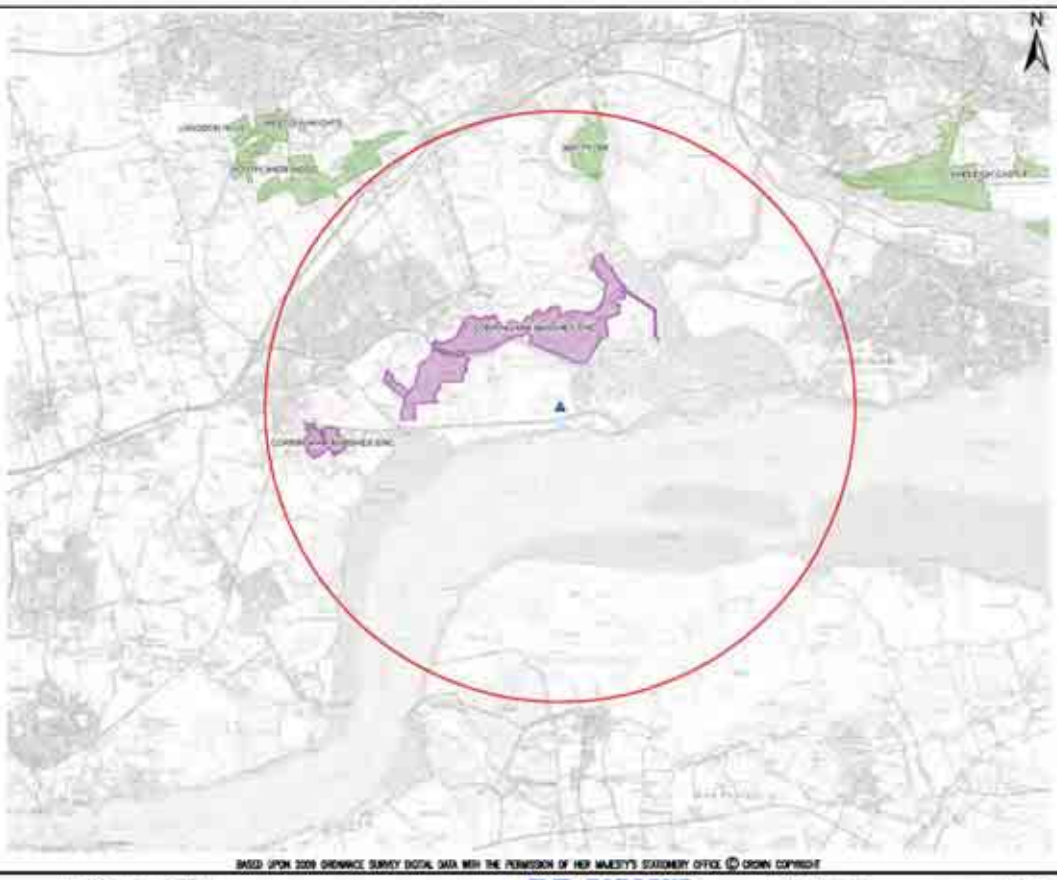
• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY PDD
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 12.2 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00



BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Arabian Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel. +44 (0191) 226 1224 Fax. +44 (0191) 226 2446

© Copyright Parsons Brinckerhoff

Copyright in the drawings belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
LOCATIONS OF NON-STATUTORY DESIGNATED SITES WITHIN 5km OF THE PROPOSED GEC SITE

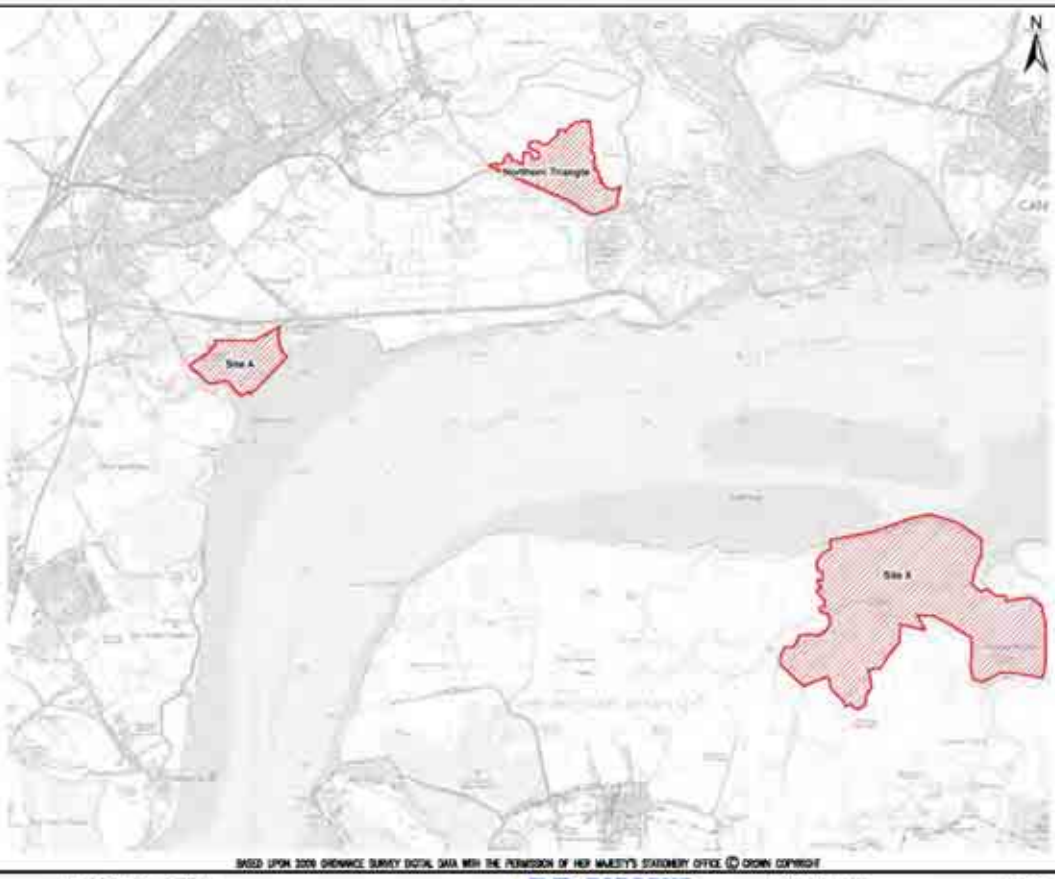
• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY PDO
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 12.3 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00



BASED UPON 2009 ORDNANCE SURVEY DIGITAL DATA WITH THE PERMISSION OF HER MAJESTY'S STATIONERY OFFICE © CROWN COPYRIGHT

REV	DATE	DESCRIPTION	BY	CHKD	APPD

• NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Anglian Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: +44 (0191) 226 5234 Fax: +44 (0191) 226 2143

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

• CLIENT/PROJECT
GATEWAY ENERGY CENTRE

• TITLE
LOCATION OF THE MITIGATION AREAS PROPOSED AS PART OF THE LG DEVELOPMENT

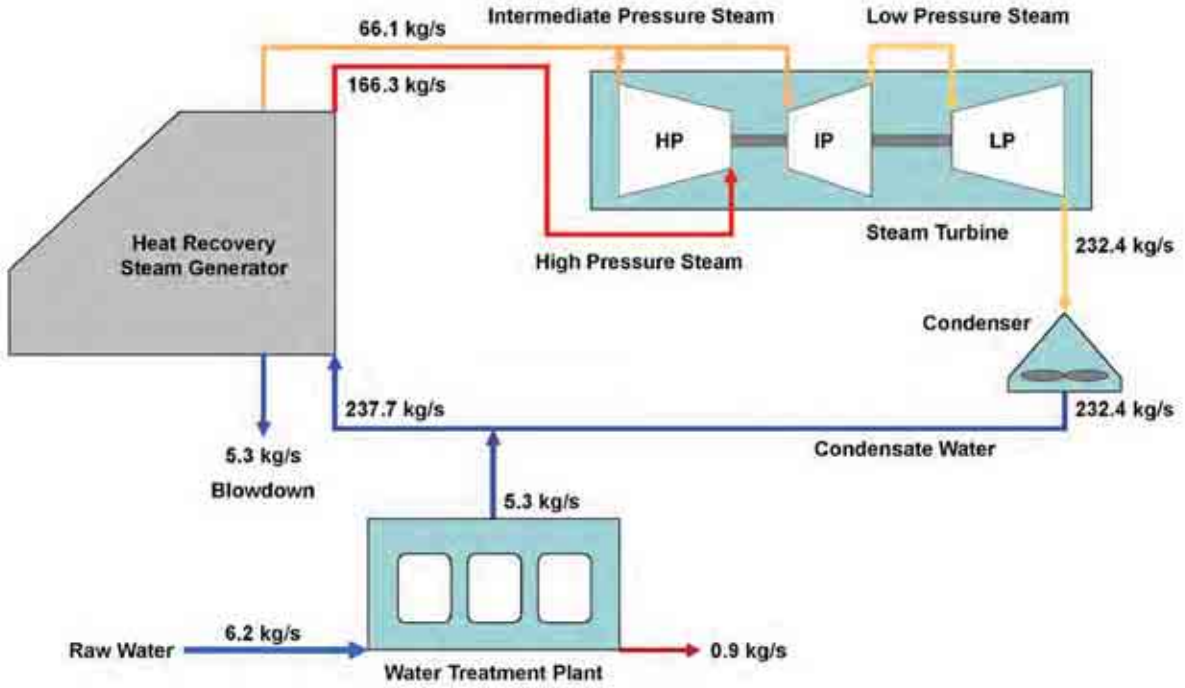
• DATE 18/02/10
• SCALE N.T.S
• CAD REF

DRAWN BY PDO
PRODUCED BY EA
CHECKED EA
APPROVED MW

• DRAWING NUMBER
FIGURE 12.4 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00



REV	DATE	DESCRIPTION	BY	CHKD	APPD	NOTES

PARSONS BRINCKERHOFF

Parsons Brinckerhoff

Anchor Court, William Armstrong Drive, Newcastle upon Tyne, NE4 7YQ
Tel: 44 (0191) 226 1234 Fax: 44 (0191) 2263340

© Copyright Parsons Brinckerhoff

Copyright in this drawing belongs to Parsons Brinckerhoff Ltd. This drawing may not be used, sold, licensed, transferred, copied or reproduced in whole or in part or in any manner or form other than with the prior written consent of Parsons Brinckerhoff.

CLIENT/PROJECT: GATEWAY ENERGY CENTRE

TITLE: INDICATIVE WATER BALANCE DIAGRAM

DATE: 24/02/2010
SCALE: N.T.S
CAD REF:

DRAWN BY: PDO
PRODUCED BY: EA
CHECKED: EA
APPROVED: MW

DRAWING NUMBER: FIGURE 13.1 | –

THIS DRAWING WAS PRODUCED USING AUTOCAD AND SHOULD ON NO ACCOUNT BE AMENDED BY HAND

00/00/00