

7. Service Specification

Route: 135

Contract Reference: QC47901

This Service Specification forms section 7 of the ITT and should be read in conjunction with the ITT document, Version 1 dated 29 September 2011.

You are formally invited to tender for the provision of the bus service detailed below and in accordance with this Service Specification. Tenderers must ensure that a Compliant Tender is submitted and this will only be considered for evaluation if all parts of the Tender documents, as set out in section 11, have been received by the Corporation by the Date of Tender. The Tender must be fully completed in the required format, in accordance with the Instructions to Tenderers. A Compliant Tender must comply fully with the requirements of the Framework Agreement; adhere to the requirements of the Service Specification; and reflect the price of operating the Services with new vehicles.

Terminus Points	Crossharbour, Asda and Old Street Station
Contract Basis	Incentivised
Commencement Date	23 rd May 2015
Vehicle Type	87 capacity, dual door, double deck buses OR New Bus for London (NBfL), subject to a satisfactory route test (see attached letter and lease)
Current Maximum Approved Dimensions	10.1 metres long and 2.55 metres wide
New Vehicles Mandatory	Yes
Hybrid Price Required	Yes
Sponsored Route	No
Advertising Rights	Operator
Minimum Performance Standard	Average Excess Waiting Time - No more than 1.00 minutes
Extension Threshold	Average Excess Waiting Time Threshold - 0.85 minutes
Minimum Operated Mileage Standard	No less than 98.00%

The Date of Tender for this ITT is: No later than 12 Noon on Monday 28th July 2014

Tenderers should refer to section 3 of Part A for the Service Specification Explanatory Notes and Appendix B of section 5 for the Example Service Specification of the ITT document.

SERVICE SPECIFICATION

- 1) SERVICE SPEC - ROUTE SPECIFICATION INFORMATION
- 2) NOTES
- 3) SCHEDULE REQUIREMENTS & PINCHPOINTS
- 4) OPERATIONAL CONSIDERATIONS
- 5) ROUTE RECORD, CURRENT PERFORMANCE, QSI BY TIME OF DAY, IBUS MILEAGE AND QSI POINTS

2) NOTES

Proposed Changes:

At this time, no changes are proposed to the existing service for introduction prior to the commencement of the new Route Agreement for Route No. 135.

Tenderers should note that the following alterations (subject to consultation) are proposed as part of this Service Specification for introduction with the new Route Agreement:

- The City of London is proposing removing the gyratory at Aldgate. Works are expected to commence in June 2014 and implementation is in November 2017. Details will be discussed with the successful Tenderer.
- **Please see Section 5 for a full list of streets traversed and standing arrangements.**

Operators should provide the following prices:

1. Annual diesel price - based on minimum 5 year contract.
2. Annual hybrid price - based on minimum 5 year contract.
3. Annual hybrid price - with upfront payment of capital difference between diesel and hybrid for 5 year contract.
4. NBfL with one person (OPO) at all times.

All tender prices should be based on the gross fuel cost exclusive of BSOG payments which will not be claimable from DfT after 1st October 2013.

Tenderers should note that if they are supplying an alternative price based on using existing vehicles, these must be refurbished in line with the revised specification dated 1st March 2014. This applies to all contracts awarded from Tranche 471 onwards.

Cash Free Boarding will be extended throughout London from 6th July 2014. Submitted tender prices should fully reflect the cost saving accrued from this change. Tenderers should also indicate the approximate additional cost if cash fares were still to be accepted.

3) SCHEDULE REQUIREMENTS & PINCHPOINTS

3.1) MONDAY TO FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Crossharbour, Asda to Old Street Station, Provost Street			Old Street Station, East Road to Crossharbour, Asda		
First bus no later than 0445.			First bus no later than 0425.		
0440 - 0545	Every 20 minutes		0420 - 0545	Every 20 minutes	
0546 - 0610	Every 12 minutes		0546 - 0620	Every 12 minutes	
0611 - 0800	Every 10 minutes		0621 - 2030	Every 10 minutes	
0801 - 0900	Every 8-9 minutes (7 buses per hour)		2031 - 2150	Every 12 minutes	
0901 - 1920	Every 10 minutes		2151 - 0055	Every 15 minutes	
1921 - 2110	Every 12 minutes				
2111 - 0100	Every 15 minutes				
Last bus no earlier than 0055.			Last bus no earlier than 0050.		
Pinchpoints					
Aldgate Station	0710 - 0840	10 minutes	Canary Wharf Station	0705 - 0835	10 minutes
	0841 - 0910	9 minutes		1505 - 1635	10 minutes
	1505 - 1635	10 minutes			

3.2) SATURDAY AND GOOD FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Crossharbour, Asda to Old Street Station, Provost Street			Old Street Station, East Road to Crossharbour, Asda		
First bus no later than 0445.			First bus no later than 0425.		
0440 - 0645	Every 20 minutes		0420 - 0625	Every 20 minutes	
0646 - 0710	Every 12 minutes		0626 - 0725	Every 12 minutes	
0711 - 1820	Every 10 minutes		0726 - 1945	Every 10 minutes	
1821 - 1910	Every 12 minutes		1946 - 2020	Every 12 minutes	
1911 - 0100	Every 15 minutes		2021 - 0055	Every 15 minutes	
Last bus no earlier than 0055.			Last bus no earlier than 0050.		
Pinchpoints					
Aldgate Station	0930 - 1100	10 minutes	Canary Wharf Station	0935 - 1105	10 minutes

3.3) SUNDAY AND PUBLIC HOLIDAYS (EXCEPT GOOD FRIDAY AND CHRISTMAS DAY) SCHEDULE REQUIREMENTS & PINCHPOINTS

Crossharbour, Asda to Old Street Station, Provost Street			Old Street Station, East Road to Crossharbour, Asda		
First bus no later than 0545.			First bus no later than 0545.		
0540 - 0745	Every 20 minutes		0540 - 0845	Every 20 minutes	
0746 - 0100	Every 15 minutes		0846 - 0055	Every 15 minutes	
Last bus no earlier than 0055.			Last bus no earlier than 0050.		
Pinchpoints					
Aldgate Station	1025 - 1125	15 minutes	Canary Wharf Station	1035 - 1135	15 minutes

4) OPERATIONAL CONSIDERATIONS

- 4.1) Route No. 135 should be separated from Route No. D7 between Millwall Dock Bridge and West India Dock Road (Limehouse) during all periods.
- 4.2) Route No. 135 should interwork with Route No. D3 between Millwall Dock Bridge and Limehouse Station during Mondays to Sundays daytimes and be separated during evenings.
- 4.3) Route No. 135 can suffer from unpredictable traffic delays in the Limehouse and Aldgate areas.
- 4.4) Crossharbour, Asda is to be re-developed. This may affect stop and stand arrangements but buses will remain on-site and adequate stop and stand capacity provided in any re-development. Timescales are not presently known.
- 4.5) The Millennium Quarter is the area of the Isle of Dogs around South Quay DLR Station. Developers propose construction of large scale residential accommodation. This development will have a significant impact on travel patterns in the area.
- 4.6) Crossrail will connect the City, Canary Wharf, the West End and Heathrow Airport to commuter areas east and west of the capital. Major construction of the railway began in 2010, with services expected to commence in 2018. The construction impacts of Crossrail could affect Route No. 135 and it is anticipated that some passenger demand for Route No. 135 may shift to this line when it opens. Route No. 135 will be reviewed closer to the opening date.

5) ROUTE RECORD, CURRENT PERFORMANCE, QSI BY TIME OF DAY, IBUS MILEAGE & QSI POINTS

- 5.1) ROUTE RECORD
As per Busnet printout.
- 5.2) CURRENT PERFORMANCE
As per current print out.
- 5.3) QSI BY TIME OF DAY
As per current print out.
- 5.4) IBUS MILEAGE & QSI POINTS
As per current print out.

LONDON BUSES - ROUTE DESCRIPTION

ROUTE 135: Crossharbour, Asda - Old Street Station

Date of Structural Change: 23 May 2015.

Date of Service Change: 23 May 2015.

Reason for Issue: New Tender.

STREETS TRAVERSED

Towards Old Street Station: Asda Access Road, East Ferry Road, Westferry Road, Heron Quay, Bank Street, Upper Bank Street, Canada Square, The South Colonnade, Cabot Square, West India Avenue, Westferry Circus (Upper Level), Westferry Road, Trinidad Street, Salter Street, West India Dock Road, Commercial Road, Whitechapel High Street, St Botolph Street, Duke's Place, Bevis Marks, Camomile Street, Bishopsgate, Norton Folgate, Shoreditch High Street, Great Eastern Street, Old Street, Old Street Roundabout, City Road, Provost Street.

Towards Crossharbour, Asda: East Road, City Road, Old Street Roundabout, Old Street, Great Eastern Street, Holywell Lane, Shoreditch High Street, Norton Folgate, Bishopsgate, Camomile Street, Outwich Street, Houndsditch, St Botolph Street, Middlesex Street, Whitechapel High Street, Commercial Road, West India Dock Road, Westferry Road, Westferry Circus (Upper Level), West India Avenue, Cabot Square, The North Colonnade, Canada Square, Upper Bank Street, Bank Street, Heron Quay, Westferry Road, East Ferry Road, Asda Access Road.

AUTHORISED STANDS, CURTAILMENT POINTS, & BLIND DESCRIPTIONS

Please note that only stands, curtailment points, & blind descriptions as detailed in this contractual document may be used.

CROSSHARBOUR, ASDA

Private stand for 5 buses in marked bays in Asda car park.

Additional overflow stand for 2 buses on west side of East Ferry Road, between entrance and exit of Asda store.

Buses proceed from Asda Access Road direct to stand, departing to Asda Access Road. Set down in Asda Access Road, at Alighting point (OC673 - Isle Of Dogs Asda, Last Stop on LOR: OC673 - Isle Of Dogs Asda) and pick up in Asda Access Road, at Stop CE (R0752 - Crossharbour Asda, First Stop on LOR: R0752 - Crossharbour Asda).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 2 buses on Route 135 should be scheduled to stand at any one time.
MEAL RELIEFS:	No meal relief vehicles to stand at any time.
FERRY VEHICLES:	No ferry vehicles to park on stand at any time.
BLIND DISPLAY:	Crossharbour.

CANARY WHARF, TRAFALGAR WAY (from OLD STREET STATION)

Public stand for up to two buses on southbound carriageway of Trafalgar Way, 149 metres south of Broadwalk Place and 204 metres north of Cartier Circle.

Buses proceed from Canada Square via The North Colonnade, Churchill Place, Cartier Circle and Trafalgar Way to stand, departing via Trafalgar Way, Cartier Circle, Churchill Place and The South Colonnade to Canada Square. Set down in Canada Square, at Stop H (BP3588 - Canada Square North and pick up in Canada Square, at Stop J (R0314 - Canada Square South).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	Unscheduled curtailments only
MEAL RELIEFS:	No meal relief vehicles to stand at any time.
FERRY VEHICLES:	No ferry vehicles to park on stand at any time.
BLIND DISPLAY:	Canary Wharf.

LIMEHOUSE, BURDETT ROAD

Private stand for two buses in bus station at the junction of East India Dock Road and Burdett Road, commencing 20 metres east of eastern kerblines of Burdett Road and extending 30 metres south.

From Crossharbour, Asda.

Buses proceed from West India Dock Road via East India Dock Road and Limehouse Bus Station to stand, departing via Limehouse Bus Station and Burdett Road to West India Dock Road. Set down in West India Dock Road, at Stop WM (BP107 - Limehouse Police Station, Last Stop on LOR: BP107 - Limehouse Police Station) and pick up in West India Dock Road, at Stop WU (36875 - Limehouse Police Station, First Stop on LOR: 36875 - Limehouse Police Station).

From Old Street Station.

Buses proceed from Commercial Road via East India Dock Road and Limehouse Bus Station to stand, departing via Limehouse Bus Station and Burdett Road to Commercial Road. Set down in Commercial Road, at Stop LE (887 - Burdett Road, Last Stop on LOR: 887 - Burdett Road) and pick up in Commercial Road, at Stop LH (1689 - Limehouse Town Hall, First Stop on LOR: 1689 - Limehouse Town Hall).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	Unscheduled curtailments only
MEAL RELIEFS:	No meal relief vehicles to stand at any time.
FERRY VEHICLES:	No ferry vehicles to park on stand at any time.
BLIND DISPLAY:	Limehouse, Burdett Road.

STEPNEY, ARBOUR SQUARE

Public stand for two buses (one in each of two sections) on east side of Arbour Square facing north.

From Crossharbour, Asda.

Buses proceed from Commercial Road via Arbour Square (East) and Arbour Square (East Side) to stand, departing via Arbour Square (East Side), Arbour Square (North Side), Arbour Square (West Side) and Arbour Square to Commercial Road. Set down in Commercial Road, at Stop LM (1865 - Marion Richardson School, Last Stop on LOR: 1865 - Marion Richardson School) and pick up in Commercial Road (1866 - Arbour Square, First Stop on LOR: 1866 - Arbour Square).

From Old Street Station.

Buses proceed from Commercial Road via Arbour Square (East) and Arbour Square (East Side) to stand, departing via Arbour Square (East Side), Arbour Square (North Side), Arbour Square (West Side) and Arbour Square to Commercial Road. Set down in Commercial Road (1866 - Arbour Square, Last Stop on LOR: 1866 - Arbour Square) and pick up in Commercial Road (881 - Exmouth Estate, First Stop on LOR: 881 - Exmouth Estate).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	Unscheduled curtailments only
MEAL RELIEFS:	No meal relief vehicles to stand at any time.
FERRY VEHICLES:	No ferry vehicles to park on stand at any time.
BLIND DISPLAY:	Stepney, Arbour Square.

ALDGATE BUS STATION

Private stand for 16 buses in marked bays in Aldgate Bus Station on south side of Aldgate High Street.

From Crossharbour, Asda.

Buses proceed from Aldgate High Street via Minories and Aldgate Bus Station to stand, departing via Aldgate Bus Station, Aldgate High Street and Houndsditch to St Botolph Street. Set down in Aldgate High Street, at Stop R (33683 - Aldgate Station <>), Last Stop on LOR: 33683 - Aldgate Station <>) and pick up in St Botolph Street, at Stop B (34190 - St Botolph Street, First Stop on LOR: 34190 - St Botolph Street).

From Old Street Station.

Buses proceed from St Botolph Street via Aldgate High Street, Minories and Aldgate Bus Station to stand, departing via Aldgate Bus Station and Aldgate High Street to Duke's Place. Set down in St Botolph Street, at Stop B (34190 - St Botolph Street, Last Stop on LOR: 34190 - St Botolph Street) and pick up in Duke's Place, at Stop A (29651 - Duke's Place).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	Unscheduled curtailments only
MEAL RELIEFS:	No meal relief vehicles to stand at any time.
FERRY VEHICLES:	No ferry vehicles to park on stand at any time.
BLIND DISPLAY:	Aldgate.

LIVERPOOL STREET, WORSHIP STREET (from Crossharbour, Asda)

Buses proceed from Bishopsgate via Primrose Street, Appold Street, Worship Street and Norton Folgate departing to Bishopsgate. Set down in Bishopsgate, at Stop H (2114 - Primrose Street, Last Stop on LOR: 2114 - Primrose Street) and pick up in Bishopsgate, at Stop J (2113 - Primrose Street, First Stop on LOR: 2113 - Primrose Street).

AVAILABILITY: At any time.
OPERATING RESTRICTIONS: **Turning Point Only - Buses must not stand**
BLIND DISPLAY: Liverpool Street.

OLD STREET STATION, EAST ROAD

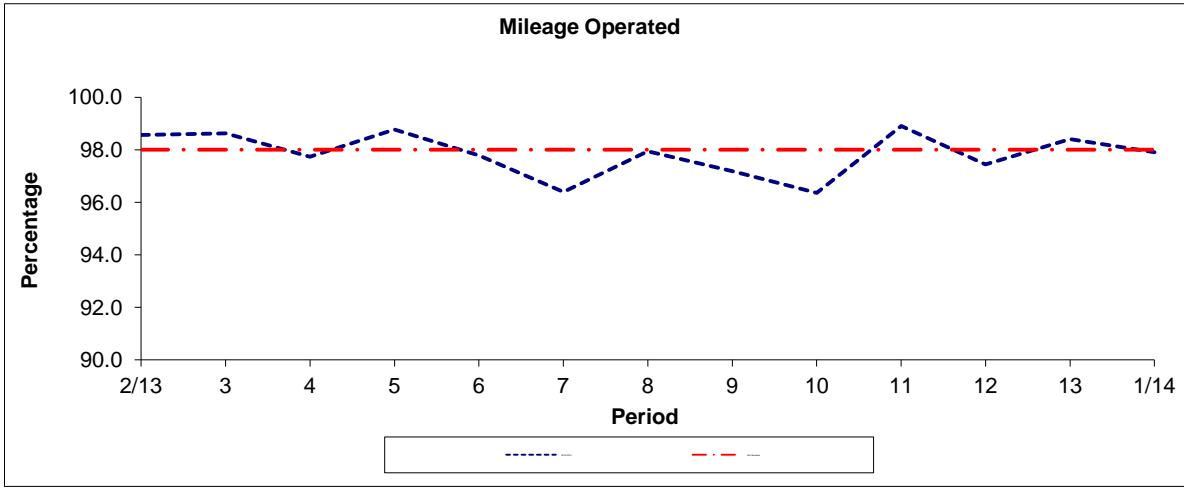
Public stand for two buses on east side of East Road, commencing at bus stop 36838 and extending 19 metres north.

Buses proceed from Provost Street via Vestry Street and East Road to stand, departing to East Road. Set down in Provost Street, at Stop A (33436 - Moorfields Eye Hospital, Last Stop on LOR: 33436 - Moorfields Eye Hospital) and pick up in East Road, B (36838 - Old Street Station <> #, First Stop on LOR: 36838 - Old Street Station <> #).

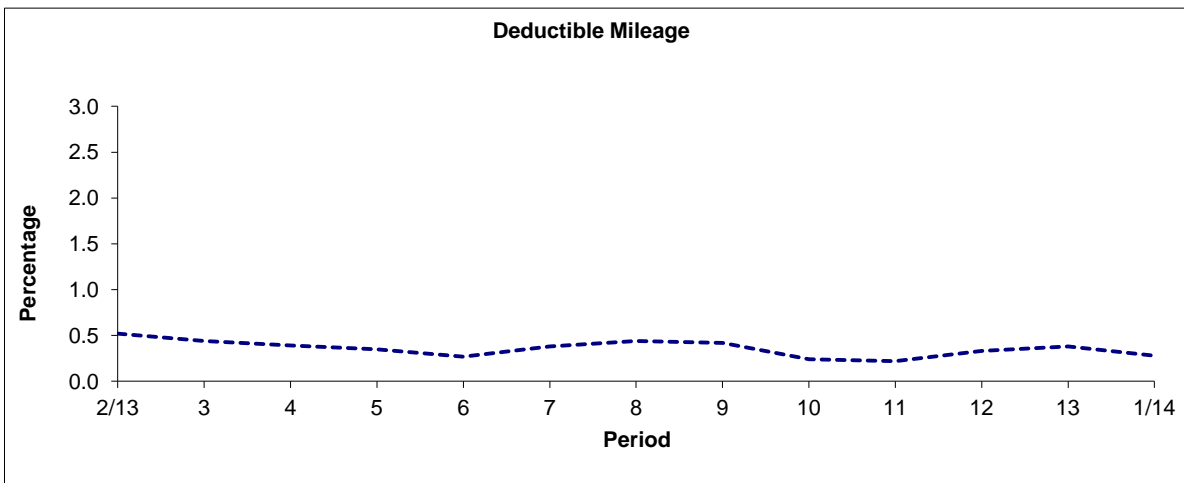
AVAILABILITY: At any time.
OPERATING RESTRICTIONS: No more than 1 bus on Route 135 should be scheduled to stand at any one time.
MEAL RELIEFS: No meal relief vehicles to stand at any time.
FERRY VEHICLES: No ferry vehicles to park on stand at any time.
BLIND DISPLAY: Old Street Station.

PART B - PERFORMANCE STATISTICS

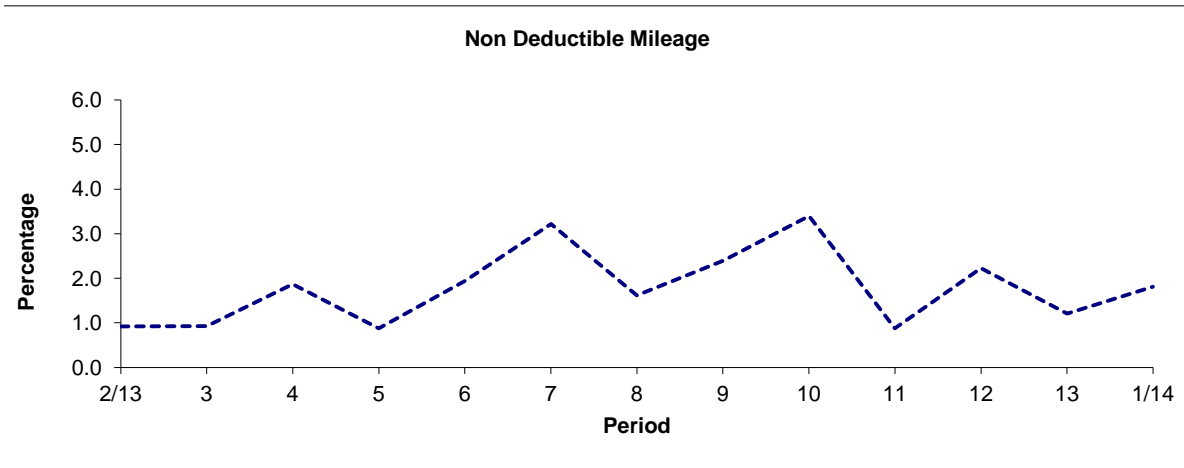
Route 135



Period	2/13	3	4	5	6	7	8	9	10	11	12	13	1/14
2013/2014	98.56	98.63	97.74	98.77	97.79	96.40	97.94	97.19	96.36	98.90	97.44	98.41	97.91
Min Standard	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00



Period	2/13	3	4	5	6	7	8	9	10	11	12	13	1/14
2013/2014	0.52	0.44	0.39	0.35	0.27	0.38	0.44	0.42	0.24	0.22	0.33	0.38	0.28

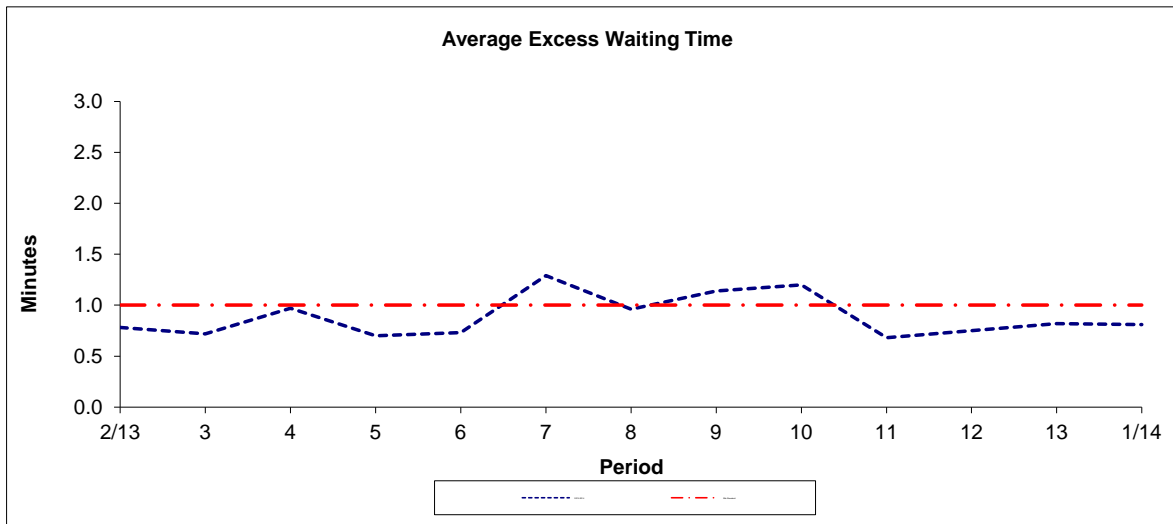


Period	2/13	3	4	5	6	7	8	9	10	11	12	13	1/14
2013/2014	0.92	0.93	1.87	0.88	1.94	3.22	1.62	2.39	3.40	0.88	2.23	1.21	1.81

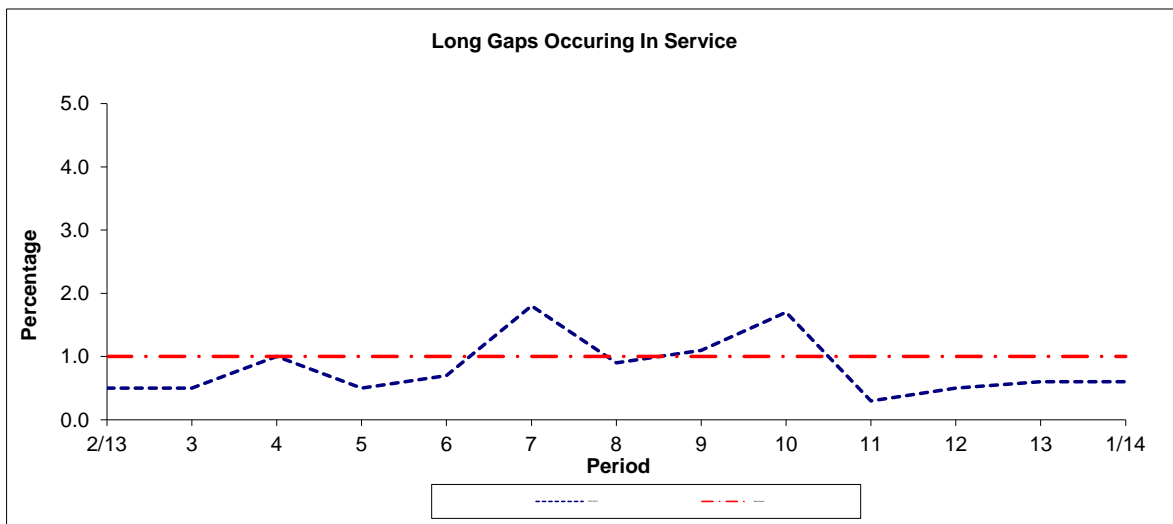
Note : Mileage is based on 4 weeks data

PART B - PERFORMANCE STATISTICS

Route 135



Period	2/13	3	4	5	6	7	8	9	10	11	12	13	1/14
2013-2014	0.78	0.72	0.97	0.70	0.73	1.29	0.96	1.14	1.20	0.68	0.75	0.82	0.81
Min Standard	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00



Period	2/13	3	4	5	6	7	8	9	10	11	12	13	1/14
2013-2014	0.5	0.5	1.0	0.5	0.7	1.8	0.9	1.1	1.7	0.3	0.5	0.6	0.6
Benchmark	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Note : Reliability is actual performance under full iBus (4 weeks data).
 Minimum Standards and Benchmarks are those applicable under the new contract.

**ROUTE 135 - FULL iBUS RESULTS BY TIME OF DAY
QUARTER 1 13/14 TO QUARTER 4 13/14 (01/04/13 - 31/03/14)**

MONDAY - FRIDAY

Time Period	Expected Buses	On AVL (%)	Scheduled Waiting Time (SWT) (mins)	Excess Waiting Time (EWT) (mins)	Actual Waiting Time (AWT) (mins)	Probability of Waiting < 10 mins (%)	Probability of Waiting 10-20 mins (%)	Probability of Waiting 20-30 mins (%)	Probability of Waiting > 30 mins (%)	Long Gaps (%)	Maximum Gap (mins)
0500 - 0700	29,051.	97.5	7.09	0.69	7.78	75.3	22.5	2.0	0.2	0.1	62
0700 - 1000	67,473.	95.8	4.92	1.02	5.93	83.0	15.9	1.0	0.1	1.1	47
1000 - 1300	65,477.	99.1	4.99	0.72	5.71	86.1	13.4	0.4	0.0	0.5	50
1300 - 1600	66,640.	98.7	4.92	0.69	5.61	86.4	13.1	0.4	0.0	0.4	52
1600 - 1900	64,866.	97.1	5.00	0.96	5.96	83.5	15.4	0.9	0.2	1.1	57
1900 - 2200	61,133.	98.1	5.23	0.84	6.06	82.2	16.8	0.9	0.2	0.8	61
2200 - 2400	29,249.	98.2	7.24	0.92	8.16	64.2	32.1	3.3	0.4	0.6	49
Summary	383,889.	97.8	5.15	0.85	6.00	83.2	15.8	0.9	0.1	0.8	62

SATURDAY

Time Period	Expected Buses	On AVL (%)	Scheduled Waiting Time (SWT) (mins)	Excess Waiting Time (EWT) (mins)	Actual Waiting Time (AWT) (mins)	Probability of Waiting < 10 mins (%)	Probability of Waiting 10-20 mins (%)	Probability of Waiting 20-30 mins (%)	Probability of Waiting > 30 mins (%)	Long Gaps (%)	Maximum Gap (mins)
0500 - 0700	4,040.	96.9	9.69	0.60	10.29	53.6	40.3	5.5	0.6	0.1	55
0700 - 1000	13,139.	98.3	5.05	0.75	5.80	86.0	13.5	0.5	0.0	0.5	50
1000 - 1300	13,488.	96.5	4.99	1.05	6.04	82.4	16.5	0.9	0.2	1.1	42
1300 - 1600	13,380.	97.0	5.00	1.16	6.16	81.2	17.7	1.0	0.0	1.0	46
1600 - 1900	13,541.	96.0	5.02	1.25	6.27	80.2	18.3	1.4	0.1	1.5	50
1900 - 2200	10,987.	96.1	6.33	1.51	7.85	66.9	28.6	4.0	0.6	1.6	46
2200 - 2400	6,104.	95.9	7.43	1.55	8.97	60.5	33.1	5.4	1.1	1.1	55
Summary	74,679.	96.7	5.40	1.15	6.55	78.5	19.6	1.7	0.2	1.1	55

SUNDAY AND BANK HOLIDAYS

Time Period	Expected Buses	On AVL (%)	Scheduled Waiting Time (SWT) (mins)	Excess Waiting Time (EWT) (mins)	Actual Waiting Time (AWT) (mins)	Probability of Waiting < 10 mins (%)	Probability of Waiting 10-20 mins (%)	Probability of Waiting 20-30 mins (%)	Probability of Waiting > 30 mins (%)	Long Gaps (%)	Maximum Gap (mins)
0500 - 0700	2,627.	97.9	10.00	0.44	10.44	64.3	31.0	4.4	0.2	4.5	43
0700 - 1000	8,237.	99.2	8.47	0.46	8.94	60.5	36.2	3.0	0.3	0.2	58
1000 - 1300	9,732.	98.4	7.57	0.51	8.08	64.2	33.9	1.6	0.3	0.3	46
1300 - 1600	9,352.	98.9	7.50	0.74	8.24	64.3	33.0	2.4	0.3	0.3	51
1600 - 1900	9,725.	97.2	7.38	0.83	8.21	64.5	32.7	2.5	0.3	0.3	54
1900 - 2200	10,110.	99.9	7.35	1.03	8.39	64.0	31.8	3.7	0.4	0.6	61
2200 - 2400	6,776.	99.6	7.42	0.60	8.02	65.5	32.9	1.5	0.1	0.1	60
Summary	56,559.	98.8	7.58	0.72	8.30	64.0	33.2	2.5	0.3	0.4	61

ALL DAYS

Time Period	Expected Buses	On AVL (%)	Scheduled Waiting Time (SWT) (mins)	Excess Waiting Time (EWT) (mins)	Actual Waiting Time (AWT) (mins)	Probability of Waiting < 10 mins (%)	Probability of Waiting 10-20 mins (%)	Probability of Waiting 20-30 mins (%)	Probability of Waiting > 30 mins (%)	Long Gaps (%)	Maximum Gap (mins)
0500 - 0700	35,718.	97.5	7.48	0.67	8.15	72.4	24.8	2.5	0.2	0.3	62
0700 - 1000	88,849.	96.5	5.09	0.97	6.06	82.3	16.6	1.0	0.1	1.0	58
1000 - 1300	88,697.	98.6	5.27	0.75	6.02	83.2	16.1	0.6	0.1	0.6	50
1300 - 1600	89,372.	98.5	5.18	0.76	5.94	83.5	15.7	0.7	0.1	0.5	52
1600 - 1900	88,132.	96.9	5.21	0.98	6.20	81.4	17.3	1.1	0.2	1.0	57
1900 - 2200	82,230.	98.1	5.59	0.94	6.54	78.3	19.9	1.6	0.2	0.9	61
2200 - 2400	42,129.	98.1	7.29	0.96	8.24	63.9	32.3	3.3	0.5	0.6	60
Summary	515,127.	97.7	5.39	0.88	6.27	80.9	17.8	1.1	0.2	0.8	62

Transport for London - QSI Points and Live Mileage List

Route 135
 Service change 27930
 Date 25/06/2011

Reason for Issue

QSI Points are highlighted.

OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
CHBRAS	R0752	Crossharbour Asda		
	BP5152	Mudchute Station	319	0.20
	36868	Millwall Park	396	0.25
IGNSWC	15141	Langbourne Place	423	0.26
	15139	Harbinger School	331	0.21
	15137	St Edmund's School	304	0.19
	15135	Crews Street	199	0.12
MILLDB	559	Arnhem Wharf Primary School	220	0.14
	15133	Sir John Mcdougal Gardens	249	0.15
	15131	Barkantine Clinic / Hutchings Street	136	0.08
WFRYBS	3201	Byng Street	225	0.14
	15129	Marsh Wall / Heron Quay	221	0.14
	BP4194	Canary Wharf Station [Lu]	778	0.48
	R0314	Canada Square South	329	0.20
CNWFNS	BP2355	Canary Wharf Station	118	0.07
	LE190	Columbus Courtyard	346	0.21
	LE193	Westferry Circus	148	0.09
	BP1231	Westferry Station	454	0.28
	BP638	Salter Street	108	0.07
LIMEBR	BP107	Limehouse Police Station	159	0.10
	1689	Limehouse Town Hall	282	0.18
	1867	Lowell Street	222	0.14
LIMESN	BP081	Limehouse Station	426	0.26
	885	Stepney Methodist Church	218	0.14
	1865	Marion Richardson School	179	0.11
	881	Exmouth Estate	244	0.15
	879	St Mary & St Michael Church	236	0.15
	1863	Watney Market	314	0.20
CMRDNR	877	New Road	272	0.17
	20401	London Metropolitan University	296	0.18
		Aldgate East Station (new stop J)	615	0.38
ALDGBT		St Botolph Street (new stop B)	276	0.17
LVSTBG	768	Liverpool Street Station	600	0.37
	2114	Primrose Street	304	0.19
SHORGE	19259	Shoreditch High Street Station	230	0.14
	14689	Curtain Road	294	0.18
	14687	Ravey Street	245	0.15
	13476	Old Street Station	286	0.18
	188	Old Street Roundabout	279	0.17
OLSTPS	33436	Provost Street / Moorfields Eye Hospital	197	0.12
TOTAL ROUTE MILEAGE - OUT DIRECTION			11478 <i>metres</i>	7.13 <i>miles</i>

Mileages in bold red font are planning estimates & not ibus calculations

FINAL MILEAGE TO BE CONFIRMED

TRANCHE 479

Mileage Update

BACK DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
OLSTER	36838	Old Street Station		
	13477	Shoreditch Fire Station	252	0.16
	BP5094	Pitfield Street	229	0.14
	BP5095	Shoreditch High Street Station	312	0.19
	20803	Commercial Street / Worship Street	413	0.26
	2113	Primrose Street	249	0.15
LVSTBG	2116	Liverpool Street Station	229	0.14
	8572	Houndsditch	361	0.22
ALDGBT		St Botolph Street (new stop A)	420	0.26
		Aldgate East Station (new stop G)	158	0.10
	1858	London Metropolitan University	506	0.31
CMRDNR	4824	New Road	276	0.17
	1864	Watney Market	464	0.29
	882	St Mary & St Michael Church	263	0.16
	1866	Arbour Square	315	0.20
	884	Stepney Methodist Church	231	0.14
LIMESN	886	Limehouse Station	335	0.21
	1868	Lowell Street	379	0.24
	1869	Salmon Lane	139	0.09
LIMEBR	887	Burdett Road	197	0.12
	36875	Limehouse Police Station	232	0.14
	15128	Westferry Station	345	0.21
	LE186	Cabot Square	495	0.31
CNWFSN	R0315	Canary Wharf Station	295	0.18
	BP3588	Canada Square North	214	0.13
	BP4195	Canary Wharf Station	472	0.29
	15130	Marsh Wall / Heron Quay	511	0.32
WFRYCS	3200	Manilla Street	218	0.14
	15132	Barkantine Clinic / Hutchings Street	269	0.17
	15134	Sir John Mcdougal Gardens	257	0.16
MILLDB	13418	Arnhem Wharf Primary School	264	0.16
	15136	Crews Street	240	0.15
	15138	St Edmund's School	231	0.14
	15140	Harbinger School	232	0.14
	16353	Maconochies Road	167	0.10
IGNSWE	15142	East Ferry Road	326	0.20
	BP2335	Mudchute Station Dlr / Spindrif Avenue	325	0.20
	BP5153	Mudchute Station	228	0.14
CHBRAS	OC673	Isle Of Dogs Asda	480	0.30
TOTAL ROUTE MILEAGE - BACK DIRECTION			11529 <i>metres</i>	7.16 <i>miles</i>

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FINAL MILEAGE TO BE CONFIRMED