

7. Service Specification

Route: H32

Contract Reference: QC51201

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	Hounslow, Bus Station and Southall, Town Hall
Contract Basis	Incentivised
Commencement Date	5 th March 2016
Vehicle Type	87 capacity, dual door, double deck buses
Current Maximum Approved Dimensions	10.6 metres long and 2.55 metres wide
New Vehicles Mandatory	Yes
Hybrid Price Required	Yes
Sponsored Route	No
Advertising Rights	Operator
Minimum Performance Standard - Route No. H32	Average Excess Wait Time - No more than 0.90 minutes
Extension Threshold - Route No. H32	Average Excess Wait Time Threshold - 0.80 minutes
Minimum Operated Mileage Standard - Route No. H32	No less than 98.00%
Departing On Time - Route No. NH32	Departing on Time - No less than 90.00%
Minimum Operated Mileage Standard - Route No. NH32	No less than 99.00%

The Date of Tender for this ITT is:

No later than 12 Noon on Monday 13th April 2015

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 & QSI POINTS

2) NOTES

Proposed Changes:

At this time, the Corporation expects to implement a change to the existing service prior to the commencement of the new Route Agreement for Route No. H32.

- A new weekend night service with a frequency of every 30 minutes is specified.
- The designation Route No. NH32 is used for contractual purposes only. This service will be marketed as Route No. H32. This includes all publicity, including destination blind displays.

Please identify the cost of the weekend night element of this service separately.

Tenderers should note that there are no changes proposed as part of this Service Specification for Route No. H32.

Tenderers are also encouraged to offer two axle vehicles with a longer wheelbase and increased capacity, subject to route constraints. Tenders offering such vehicles will be welcomed and carefully considered by the Corporation. Triaxle vehicles are not being considered by the Corporation at this time.

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.

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.

Cash Free Boarding was 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.

Full iBus Monitoring was introduced on all night routes with effect from 1 April 2014.

Tenderers are therefore advised that on contracts where there is a night service both the day and night elements will be incentivised from the commencement of the Route Agreement in accordance with clause 46 of Annex B Terms and Conditions, using the Minimum Performance Standard(s) specified in Part 1 of the ITT.

3) SCHEDULE REQUIREMENTS & PINCHPOINTS

3.1) MONDAY TO FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Hounslow, Bus Station to Southall, Town Hall		Southall, Town Hall to Hounslow, Bus Station			
First departure no later than 0420.		First departure no later than 0430.			
0415 - 0630	Every 20 minutes	0425 - 0630	Every 20 minutes		
0631 - 0700	Every 15 minutes	0631 - 0700	Every 15 minutes		
0701 - 1930	Every 10 minutes	0701 - 1930	Every 10 minutes		
1931 - 2015	Every 12 minutes	1931 - 2015	Every 12 minutes		
2016 - 2300	Every 15 minutes	2016 - 2300	Every 15 minutes		
2301 - 0105	Every 20 minutes	2301 - 0115	Every 20 minutes		
Last departure no earlier than 0100.		Last departure no earlier than 0110.			
Pinchpoints					
Southall Station	0730 - 0930	10 minutes	Hounslow West Station	0730 - 0930	10 minutes
	1500 - 1700	10 minutes		1530 - 1700	10 minutes

3.2) SATURDAY AND GOOD FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Hounslow, Bus Station to Southall, Town Hall		Southall, Town Hall to Hounslow, Bus Station			
First departure no later than 0420.		First departure no later than 0430.			
0415 - 0730	Every 20 minutes	0425 - 0730	Every 20 minutes		
0731 - 0830	Every 15 minutes	0731 - 0830	Every 15 minutes		
0831 - 1930	Every 10 minutes	0831 - 1830	Every 10 minutes		
1931 - 2015	Every 12 minutes	1831 - 1930	Every 12 minutes		
2016 - 2300	Every 15 minutes	1931 - 2300	Every 15 minutes		
2301 - 0105	Every 20 minutes	2301 - 0115	Every 20 minutes		
Last departure no earlier than 0100.		Last departure no earlier than 0110.			
Pinchpoints					
Southall Station	0855 - 1055	10 minutes	Hounslow West Station	0850 - 1050	10 minutes

3) SCHEDULE REQUIREMENTS & PINCHPOINTS - continued

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

Hounslow, Bus Station to Southall, Town Hall		Southall, Town Hall to Hounslow, Bus Station			
First departure no later than 0420.		First departure no later than 0430.			
0415 - 0650	Every 30 minutes	0425 - 0630	Every 30 minutes		
0651 - 0930	Every 20 minutes	0631 - 0930	Every 20 minutes		
0931 - 2300	Every 15 minutes	0931 - 2300	Every 15 minutes		
2301 - 0105	Every 20 minutes	2301 - 0115	Every 20 minutes		
Last departure no earlier than 0100.		Last departure no earlier than 0110.			
Pinchpoints					
Southall Station	1030 - 1130	15 minutes	Hounslow West Station	1000 - 1130	15 minutes

Tenderers must identify the cost of the Boxing Day element of this service separately.

3.4) FRIDAY NIGHTS/SATURDAY MORNINGS TO SATURDAYS NIGHTS/SUNDAYS MORNINGS

Hounslow, Bus Station to Southall, Town Hall		Southall, Town Hall to Hounslow, Bus Station	
First departure no later than 0130.		First departure no later than 0135.	
0125 - 0405	Every 30 minutes	0130 - 0410	Every 30 minutes
Last departure no earlier than 0400.		Last departure no earlier than 0405.	

4) OPERATIONAL CONSIDERATIONS

- 4.1) Route No. H32 should interwork with Route No. NH32 to form a seamless 24 hour service.
- 4.2) Route No. H32 should be separated from Route No. 105 between Southall, Brent Road and Southall, Town Hall on Sundays and all evenings.
- 4.3) Route No. H32 should be separated from Route No. 195 between Southall, Brent Road and Southall, Town Hall on Sundays and all evenings.
- 4.4) Route No. H32 should be separated from Route No. 482 between Hounslow West Station and Southall, Town Hall.
- 4.5) Route No. H32 can suffer from unpredictable traffic delays in the Hounslow and Southall areas.
- 4.6) London Underground (LU) propose to introduce the continuous operation of LU services from first train on Friday morning to last train on Sunday night i.e. for 67 hours over the weekend. This will be on the full length of the Victoria and Jubilee lines and parts of the Central, Northern and Piccadilly lines. Trains will operate every 10 minutes. The proposal is scheduled to start on Friday 18th September 2015. This is known as Night Tube. The introduction of Night Tube will have a significant impact on night bus demand.

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 H32: Hounslow Bus Station - Southall, Town Hall

Date of Structural Change: 5 March 2016.

Date of Service Change: 5 March 2016.

Reason for Issue: New tender.

STREETS TRAVERSED

Towards Southall, Town Hall: Hounslow High Street, Hanworth Road, Grove Road, Bell Road, Bath Road, Vicarage Farm Road, North Hyde Lane, Convent Way, Wentworth Road, Western Road, King Street, The Green, South Road, Hamilton Road.

Towards Hounslow Bus Station: South Road, The Green, King Street, Montague Way, Western Road, Wentworth Road, Convent Way, North Hyde Lane, Vicarage Farm Road, New Heston Road, Vicarage Farm Road, Bath Road, Hounslow West Station Forecourt, Bath Road, Steve Biko Way, Staines Road, Grove Road, Hanworth Road, Hounslow High Street, London 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.

HOUNSLOW BUS STATION

Private stand for 9 buses in marked bays in bus parking area in Hounslow Bus Station on north side of London Road.

Buses proceed from London Road via Hounslow Bus Station to stand, departing via Hounslow Bus Station and Kingsley Road to Hounslow High Street. Set down in London Road, at Stop Z1 (33528 - Hounslow Bus Station, Last Stop on LOR: 33528 - Hounslow Bus Station) and pick up in Hounslow High Street, at Stop C (BP4837 - School Road, First Stop on LOR: BP4837 - School Road).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 2 buses on Route H32 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:	Hounslow Bus Station.

HOUNSLOW, BELL CORNER (from SOUTHALL, TOWN HALL)

Private stand for 3 buses in separate 12-metre marked bays in Bus Parking Area on north side of Bath Road adjacent to Bath Road Car Park and opposite Nos. 22-36.

Buses proceed from Staines Road via Grove Road, Bell Road, Bath Road and Bell Corner to stand, departing via Bell Corner to Bath Road. Set down in Staines Road, at Stop V (BP931 - The Bell, Last Stop on LOR: BP931 - The Bell) and pick up in Bath Road, at Stop H (16336 - St Michael & St Martin Church, First Stop on LOR: 16336 - St Michael & St Martin Church).

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:	Hounslow, Bus Station.

HOUNSLOW WEST STATION

Private stand for one bus in station forecourt commencing at lamp standard N801 extending 16 metres northwest.

From Hounslow Bus Station.

Buses proceed from Bath Road via Hounslow West Station Forecourt to stand, departing to Hounslow West Station Forecourt. Set down in Bath Road, at Stop K (16388 - St Paul's Church, Last Stop on LOR: 16388 - St Paul's Church) and pick up in Hounslow West Station Forecourt, at Stop A (9115 - Hounslow West Station <>, First Stop on LOR: 9115 - Hounslow West Station <>).

From Southall, Town Hall.

Buses proceed from Hounslow West Station Forecourt direct to stand, departing via Hounslow West Station Forecourt and Bath Road to Vicarage Farm Road. Set down in Hounslow West Station Forecourt, at Stop A (9115 - Hounslow West Station <>, Last Stop on LOR: 9115 - Hounslow West Station <>) and pick up in Vicarage Farm Road, at Stop D (15672 - Hounslow West Station <>, First Stop on LOR: 15672 - Hounslow West Station <>).

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:	Hounslow West.

CONVENT WAY ESTATE (from Hounslow Bus Station)

Buses proceed from Convent Way via Wentworth Road, Western Road and Wentworth Road departing to Convent Way. Set down in Convent Way, at Stop BN (34590 - Wentworth Road, Last Stop on LOR: 34590 - Wentworth Road) and pick up in Convent Way, at Stop BH (34589 - Wentworth Road, First Stop on LOR: 34589 - Wentworth Road).

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

SOUTHALL, THE GREEN (from Hounslow Bus Station)

Buses proceed from The Green via South Road, A3005 and South Road departing to The Green. Set down in The Green, at Stop L (19033 - The Green, Last Stop on LOR: 19033 - The Green) and pick up in The Green, at Stop M (8750 - The Green, First Stop on LOR: 8750 - The Green).

AVAILABILITY: At any time.
OPERATING RESTRICTIONS: **Turning Point Only - Buses must not stand**
BLIND DISPLAY: Southall, The Green.

SOUTHALL, TOWN HALL, AVENUE ROAD

Public stand in three parts:

1 - Main stand in bay on east side of Avenue Road, commencing 28 metres south of Boyd Avenue and extending 18 metres north.

3 - Overflow stand on south side of Cambridge Road commencing 48 metres west of Avenue Road and extending 28 metres east.

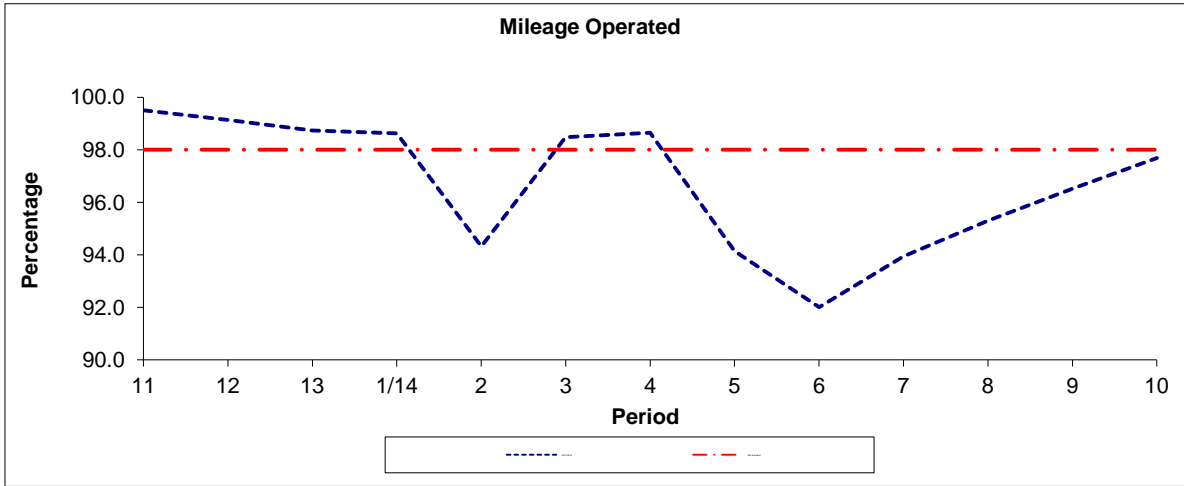
2 - Additional overflow stand on south side of Cambridge Road commencing 69 metres west of Avenue Road and extending 15 metres east.

Buses proceed from Hamilton Road via Avenue Road to stand, departing via Avenue Road and Cambridge Road to South Road. Set down in Hamilton Road, at Alighting Point (34558 - Southall Town Hall, Last Stop on LOR: 34558 - Southall Town Hall) and pick up in South Road, at Stop M (20712 - Southall Broadway, First Stop on LOR: 20712 - Southall Broadway).

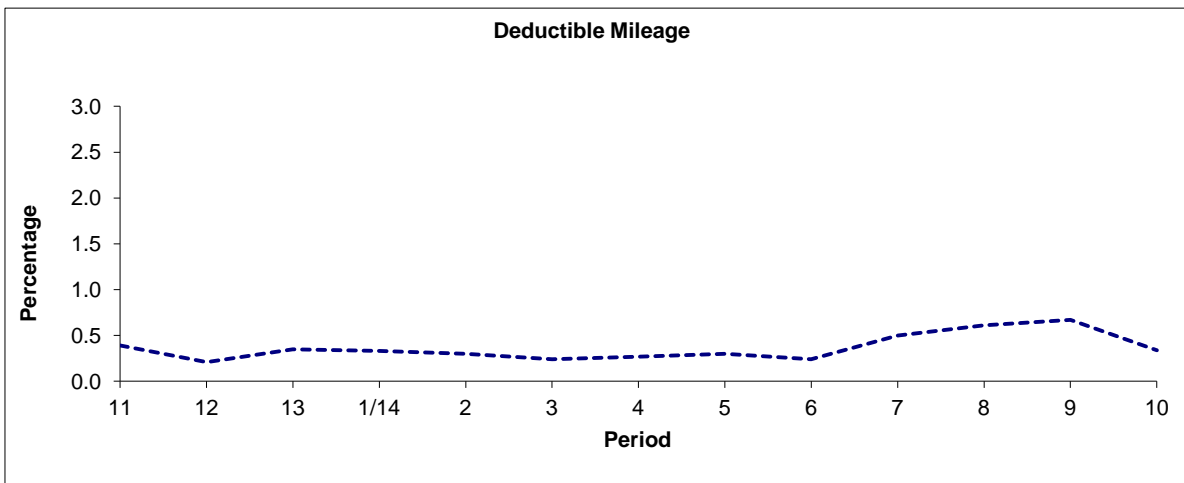
AVAILABILITY: At any time.
OPERATING RESTRICTIONS: No more than 1 bus on Route H32 should be scheduled to stand at any one time.
MEAL RELIEFS: No meal relief vehicles to stand at any time.
FERRY VEHICLES: No ferry vehicles to park on stand at any time.
BLIND DISPLAY: Southall, Town Hall.
OTHER INFORMATION: Buses should use the stand in Avenue Road unless full. An overflow stand is available in Cambridge Road. Care should be taken not to obstruct the vehicular entrances to the British Telecom building.

PART B - PERFORMANCE STATISTICS

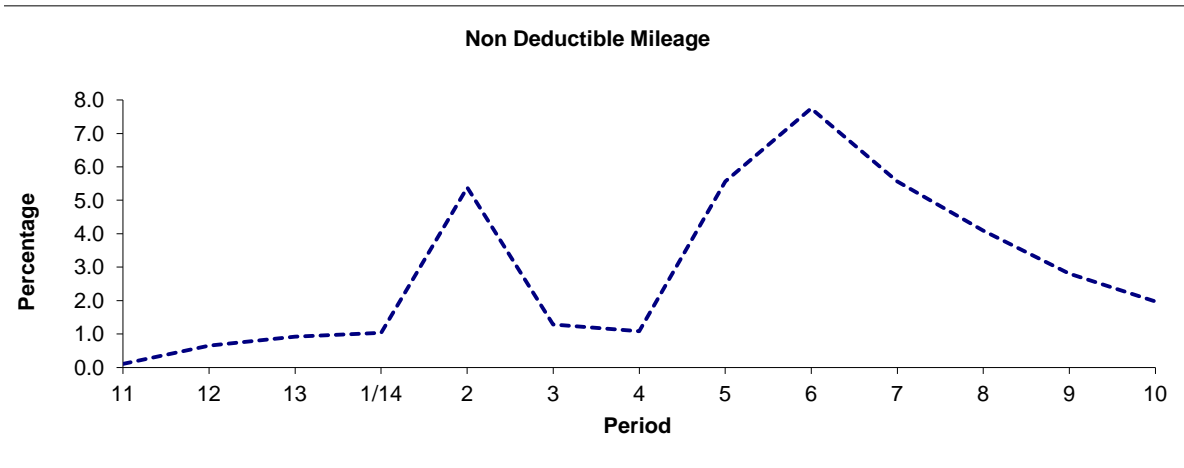
Route H32



Period	11	12	13	1/14	2	3	4	5	6	7	8	9	10
2013/2014	99.50	99.14	98.73	98.63	94.32	98.48	98.65	94.14	92.01	93.94	95.30	96.52	97.69
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	11	12	13	1/14	2	3	4	5	6	7	8	9	10
2013/2014	0.39	0.21	0.35	0.33	0.30	0.24	0.27	0.30	0.24	0.50	0.61	0.67	0.34

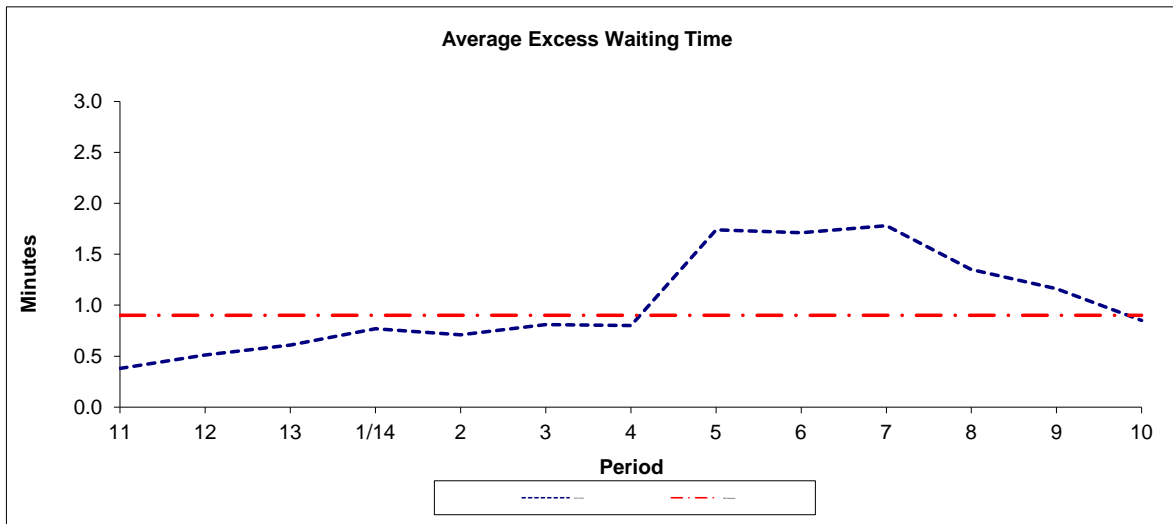


Period	11	12	13	1/14	2	3	4	5	6	7	8	9	10
2013/2014	0.11	0.65	0.92	1.04	5.38	1.28	1.08	5.56	7.75	5.56	4.09	2.81	1.97

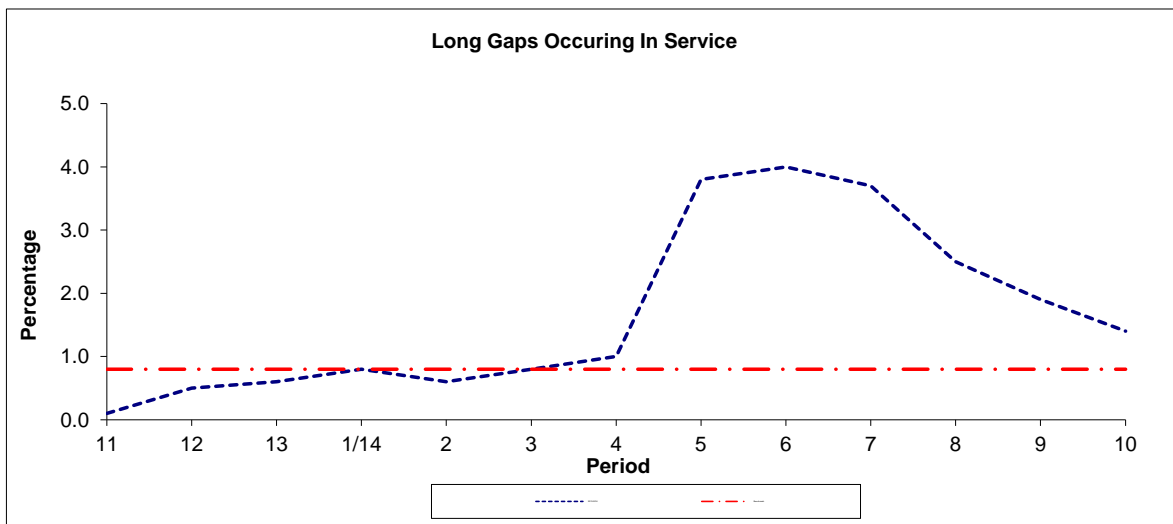
Note : Mileage is based on 4 weeks data

PART B - PERFORMANCE STATISTICS

Route H32



Period	11	12	13	1/14	2	3	4	5	6	7	8	9	10
2013-2014	0.38	0.51	0.61	0.77	0.71	0.81	0.80	1.74	1.71	1.78	1.35	1.16	0.85
Min Standard	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90



Period	11	12	13	1/14	2	3	4	5	6	7	8	9	10
2013-2014	0.1	0.5	0.6	0.8	0.6	0.8	1.0	3.8	4.0	3.7	2.5	1.9	1.4
Benchmark	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

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

ROUTE H32 - FULL iBUS RESULTS BY TIME OF DAY
QUARTER 4 13/14 TO QUARTER 3 14/15 (04/01/14 - 02/01/15)

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	16,953.	97.7	9.54	0.63	10.17	54.2	40.3	5.1	0.4	0.0	47
0700 - 1000	50,798.	98.8	5.07	0.62	5.69	87.5	11.9	0.6	0.1	0.6	44
1000 - 1300	50,408.	97.5	4.98	0.60	5.58	87.5	11.9	0.5	0.1	0.6	70
1300 - 1600	50,509.	92.2	4.97	1.46	6.43	79.4	17.3	2.5	0.8	3.3	58
1600 - 1900	49,636.	94.6	4.98	1.63	6.61	79.7	17.0	2.5	0.8	3.4	75
1900 - 2200	40,416.	98.8	5.95	1.10	7.05	73.8	23.5	2.1	0.6	1.8	76
2200 - 2400	19,657.	98.3	8.32	0.47	8.79	58.4	37.9	3.4	0.2	0.1	47
Summary	278,377.	96.5	5.38	1.09	6.47	80.1	17.5	1.9	0.5	1.9	76

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	3,432.	99.5	10.01	0.32	10.33	49.3	45.0	5.5	0.2	0.0	45
0700 - 1000	8,148.	99.0	6.70	0.43	7.13	76.9	21.8	1.3	0.0	0.1	42
1000 - 1300	11,124.	98.8	4.86	0.48	5.34	89.2	10.5	0.3	0.0	0.3	35
1300 - 1600	10,663.	97.7	5.01	0.93	5.94	84.0	14.5	1.2	0.4	1.5	64
1600 - 1900	10,699.	96.0	5.02	0.90	5.91	84.3	14.4	1.1	0.2	1.3	57
1900 - 2200	7,453.	100.0	6.95	0.80	7.75	67.5	29.6	2.2	0.7	1.0	62
2200 - 2400	4,184.	97.9	8.38	0.49	8.87	57.9	37.9	3.8	0.4	0.2	42
Summary	55,703.	98.2	5.70	0.71	6.41	80.3	18.1	1.3	0.2	0.9	64

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	2,597.	98.0	14.57	0.52	15.10	35.4	35.5	25.6	3.6	0.2	61
0700 - 1000	5,902.	97.9	9.75	0.49	10.24	54.3	40.8	4.6	0.3	0.0	75
1000 - 1300	7,730.	98.0	7.32	0.58	7.90	66.0	31.4	2.2	0.4	0.4	51
1300 - 1600	7,355.	94.7	7.43	1.69	9.12	60.2	31.2	6.0	2.6	2.6	83
1600 - 1900	7,549.	98.6	7.40	1.06	8.46	64.4	32.1	2.9	0.7	0.7	71
1900 - 2200	7,724.	99.8	7.42	0.53	7.94	65.9	32.5	1.5	0.1	0.1	42
2200 - 2400	4,605.	98.8	8.24	0.34	8.58	59.5	37.0	3.2	0.2	0.1	40
Summary	43,462.	97.9	7.78	0.93	8.71	62.2	33.0	3.9	1.0	0.9	83

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	22,982.	98.0	9.88	0.59	10.47	52.5	40.6	6.4	0.5	0.0	61
0700 - 1000	64,848.	98.8	5.43	0.60	6.03	85.1	14.0	0.8	0.1	0.5	75
1000 - 1300	69,262.	97.8	5.22	0.58	5.80	85.3	13.9	0.6	0.1	0.5	70
1300 - 1600	68,527.	93.4	5.23	1.41	6.64	78.1	18.3	2.7	0.9	3.0	83
1600 - 1900	67,884.	95.3	5.21	1.50	6.71	78.8	18.1	2.4	0.7	2.9	75
1900 - 2200	55,593.	99.1	6.24	0.99	7.24	72.1	25.3	2.0	0.6	1.5	76
2200 - 2400	28,446.	98.3	8.31	0.46	8.77	58.5	37.8	3.4	0.3	0.1	47
Summary	377,542.	96.9	5.65	1.02	6.67	78.5	19.0	2.0	0.5	1.7	83

Transport for London - QSI Points and Live Mileage List

Route H32
 Service change 19159
 Date 7 October 2009

TRANCHE 512

QSI Points are highlighted

OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
HOUNBS S	HOUNBS S	HOUNSLOW BUS STATION		
HOUNHS	BP4837	School Road	0	0.00
	BP2173	Fairfields Road	248	0.15
	BP1364	Treaty Centre	415	0.26
HOUNBL	BP1993	Bell Road / Bell Corner	317	0.20
	16336	St.Michael & St.Martin Church	435	0.27
	16337	Wellington Road North	338	0.21
	16388	St.Paul's Church	340	0.21
HWSTSV	15672	Hounslow West, Vicarage Farm I	462	0.29
	16201	Great West Road	396	0.25
	16204	Heston House	389	0.24
HESTHC	16206	Cranford Lane	294	0.18
	27891	New Heston Road	387	0.24
	27889	Ringway	625	0.39
	34737	Raleigh Road	342	0.21
	34594	Holly Farm Road	307	0.19
STHLCW	34592	Convent Way Shopping Precinc	260	0.16
	34590	Wentworth Road	365	0.23
STHLBR	15969	Brent Road	488	0.30
	R0210	Derley Road	286	0.18
	15965	Sussex Road	312	0.19
	C98	Waltham Road	225	0.14
STHLKS	8749	King Street	214	0.13
	19033	The Green	190	0.12
	15963	Southall Station	385	0.24
	15961	Park Avenue	176	0.11
	7700	Southall Broadway	347	0.22
STHLTHH	34558	Southall Town Hall	71	0.04
STHLAR S	STHLAR S	HALL, TOWN HALL, AVENUE	0	0.00
TOTAL ROUTE MILEAGE - OUT DIRECTION			8614 metres	5.35 miles

BACK DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
STHLAR S	STHLAR S	HALL, TOWN HALL, AVENUE ROAD		
STHLTH	20712	Southall Broadway	0	0.00
	15960	Park Avenue	271	0.17
	20406	Southall Station	264	0.16
	8750	The Green	392	0.24
STHLKS	8748	King Street	280	0.17
	BP2545	Montague Way	364	0.23
	15968	Derley Road	474	0.29
STHLBR	15970	Brent Road	183	0.11
	34589	Wentworth Road	440	0.27
STHLCW	34591	Convent Way Shopping Precir	359	0.22
	34593	Holly Farm Road	320	0.20
	34736	Raleigh Road	382	0.24
	27890	Ringway	380	0.24
	27892	New Heston Road	609	0.38
HESTHC	16205	Cranford Lane	154	0.10
	16203	Heston House	553	0.34
	16202	Great West Road	256	0.16
HWSTSN	9115	Hounslow West Station	601	0.37
	R0233	St Paul's Church	426	0.26
	R0232	Wellington Road North	315	0.20
	16335	Michael And St Martin Chur	253	0.16
HOUNBL	BP931	The Bell	612	0.38
	BP1226	Treaty Centre	266	0.17
HOUNBSL	33528	Hounslow Bus Station	767	0.48
HOUNBS S	HOUNBS S	HOUNSLOW BUS STATION	0	0.00
TOTAL ROUTE MILEAGE - BACK DIRECTION			8921 metres	5.54 miles

Transport for London - QSI Points and Live Mileage List

Route NH32

Service change 19159

Date 7 October 2009

TRANCHE 512

QSI Points are highlighted

OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
HOUNBS S	HOUNBS S	HOUNSLOW BUS STATION		
HOUNHS	BP4837	School Road	0	0.00
	BP2173	Fairfields Road	248	0.15
	BP1364	Treaty Centre	415	0.26
HOUNBL	BP1993	Bell Road / Bell Corner	317	0.20
	16336	St.Michael & St.Martin Church	435	0.27
	16337	Wellington Road North	338	0.21
	16388	St.Paul's Church	340	0.21
HWSTSV	15672	Hounslow West, Vicarage Farm I	462	0.29
	16201	Great West Road	396	0.25
	16204	Heston House	389	0.24
HESTHC	16206	Cranford Lane	294	0.18
	27891	New Heston Road	387	0.24
	27889	Ringway	625	0.39
	34737	Raleigh Road	342	0.21
	34594	Holly Farm Road	307	0.19
STHLCW	34592	Convent Way Shopping Precinct	260	0.16
	34590	Wentworth Road	365	0.23
STHLBR	15969	Brent Road	488	0.30
	R0210	Derley Road	286	0.18
	15965	Sussex Road	312	0.19
	C98	Waltham Road	225	0.14
STHLKS	8749	King Street	214	0.13
	19033	The Green	190	0.12
	15963	Southall Station	385	0.24
	15961	Park Avenue	176	0.11
	7700	Southall Broadway	347	0.22
STHLTHH	34558	Southall Town Hall	71	0.04
STHLAR S	STHLAR S	HALL, TOWN HALL, AVENUE	0	0.00
TOTAL ROUTE MILEAGE - OUT DIRECTION			8614 metres	5.35 miles

BACK DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
STHLAR S	STHLAR S	HALL, TOWN HALL, AVENUE ROAD		
STHLTH	20712	Southall Broadway	0	0.00
	15960	Park Avenue	271	0.17
	20406	Southall Station	264	0.16
	8750	The Green	392	0.24
STHLKS	8748	King Street	280	0.17
	BP2545	Montague Way	364	0.23
	15968	Derley Road	474	0.29
STHLBR	15970	Brent Road	183	0.11
	34589	Wentworth Road	440	0.27
STHLCW	34591	Convent Way Shopping Precinct	359	0.22
	34593	Holly Farm Road	320	0.20
	34736	Raleigh Road	382	0.24
	27890	Ringway	380	0.24
	27892	New Heston Road	609	0.38
HESTHC	16205	Cranford Lane	154	0.10
	16203	Heston House	553	0.34
	16202	Great West Road	256	0.16
HWSTSN	9115	Hounslow West Station	601	0.37
	R0233	St Paul's Church	426	0.26
	R0232	Wellington Road North	315	0.20
	16335	Michael And St Martin Church	253	0.16
HOUNBL	BP931	The Bell	612	0.38
	BP1226	Treaty Centre	266	0.17
HOUNBSL	33528	Hounslow Bus Station	767	0.48
HOUNBS S	HOUNBS S	HOUNSLOW BUS STATION	0	0.00
TOTAL ROUTE MILEAGE - BACK DIRECTION			8921 metres	5.54 miles