

## 7. Service Specification

Route: W16

Contract Reference: QC55506

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.

<b>Terminus Points</b>	Chingford Mount, Prince Albert and Leytonstone Station, Plaza
<b>Contract Basis</b>	Incentivised
<b>Commencement Date</b>	4 <sup>th</sup> March 2017
<b>Vehicle Type</b>	50 capacity, dual door, single deck, minimum 9.6m long
<b>Current Maximum Approved Dimensions</b>	9.6 metres long and 2.44 metres wide
<b>New Vehicles Mandatory</b>	Yes
<b>Hybrid Price Required</b>	Yes
<b>Sponsored Route</b>	No
<b>Advertising Rights</b>	Operator
<b>Minimum Performance Standard</b>	Average Excess Wait Time - No more than 0.90 minutes
<b>Extension Threshold</b>	Average Excess Wait Time Threshold - 0.85 minutes
<b>Minimum Operated Mileage Standard</b>	No less than 98.00%

The Date of Tender for this ITT is:

No later than 12 Noon on Monday 11<sup>th</sup> April 2016

*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, no changes are proposed to the existing service for introduction prior to the commencement of the new Route Agreement for Route No. W16.

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:

- Sunday daytime frequencies are increased from every 20 minutes to every 15 minutes.
- In conjunction with the proposed Waltham Forest Mini-Holland scheme, emergency schedules will introduced on 2<sup>nd</sup> April 2016 to mitigate the effects the roadworks.

### **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.

### 3) SCHEDULE REQUIREMENTS & PINCHPOINTS

#### 3.1) MONDAY TO FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

CHINGFORD MOUNT TO FRIDAY SCHEDULE REQUIREMENTS & PINCH POINTS

Chingford Mount, Prince Albert to Leytonstone Station, Plaza			Leytonstone Station, Plaza to Chingford Mount, Prince Albert		
First departure no later than 0500.			First departure no later than 0515.		
0455 - 0600	Every 15 minutes		0510 - 0645	Every 15 minutes	
0601 - 1900	Every 12 minutes		0646 - 2000	Every 12 minutes	
1901 - 0005	Every 20 minutes		2001 - 0005	Every 20 minutes	
Last departure no earlier than 2400.			Last departure no earlier than 2400.		
<b>Pinchpoints</b>					
Leyton, Bakers Arms Lea Bridge Rd East of Junction	0710 - 0910	12 minutes	Highams Park Station	0705 - 0905	12 minutes
	1505 - 1640	12 minutes		1500 - 1635	12 minutes

#### 3.2) SATURDAY AND GOOD FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Chingford Mount, Prince Albert to Leytonstone Station, Plaza			Leytonstone Station, Plaza to Chingford Mount, Prince Albert		
First departure no later than 0500.			First departure no later than 0515.		
0455 - 0700	Every 20 minutes		0510 - 0715	Every 20 minutes	
0701 - 0800	Every 15 minutes		0716 - 0900	Every 15 minutes	
0801 - 1900	Every 12 minutes		0901 - 1920	Every 12 minutes	
1901 - 0005	Every 20 minutes		1921 - 0005	Every 20 minutes	
Last departure no earlier than 2400.			Last departure no earlier than 2400.		
<b>Pinchpoints</b>					
Leyton, Bakers Arms Lea Bridge Rd East of Junction	0910 - 1110	12 minutes	Highams Park Station	0925 - 1125	12 minutes

### 3) SCHEDULE REQUIREMENTS & PINCHPOINTS - continued.

#### 3.3) SUNDAY AND PUBLIC HOLIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS

Chingford Mount, Prince Albert to Leytonstone Station, Plaza			Leytonstone Station, Plaza to Chingford Mount, Prince Albert		
First departure no later than 0600.			First departure no later than 0630.		
0555 - 0850	Every 30 minutes		0625 - 0900	Every 30 minutes	
0851 - 0930	Every 20 minutes		0901 - 1000	Every 20 minutes	
0931 - 1900	Every 15 minutes		1001 - 1900	Every 15 minutes	
1901 - 0005	Every 20 minutes		1901 - 0005	Every 20 minutes	
Last departure no earlier than 2400.			Last departure no earlier than 2400.		
<b>Pinchpoints</b>					
Leyton, Bakers Arms Lea Bridge Rd East of Junction	1020 - 1140	15 minutes	Highams Park Station	1025 - 1225	15 minutes

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

### 4) OPERATIONAL CONSIDERATIONS

- 4.1) Route No. W16 can suffer from unpredictable traffic delays in the Walthamstow and Leytonstone areas, particularly during Mondays to Fridays peak periods.
- 4.2) Smaller buses are used on the Route No. W16 due to highway constraints in the Shernhall Street area.
- 4.3) 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 this year, with services expected to commence in 2018. The construction impacts of Crossrail at Stratford could affect Route No. W16 and it is anticipated that some passenger demand for Route No. W16 would shift to this line when it opens. Route No. W16 will be reviewed closer to the opening date. Expected changes in demand as a result of Crossrail, will be reviewed separately.
- 4.4) Football matches at West Ham Football Club at Queen Elizabeth Olympic Park is expected to cause traffic congestion in the Stratford area, when it opens. Work is expected to be completed by August 2016.
- 4.5) Legacy development related to the Queen Elizabeth Olympic Park and Stratford City is projected to come forward over the next 10 years. It is anticipated that activity, including bus passenger demand, will increase as new developments are built and occupied

**4) OPERATIONAL CONSIDERATIONS - continued.**

- 4.6) In conjunction with the proposed Waltham Forest Mini-Holland scheme, emergency schedules will introduced on 2<sup>nd</sup> April 2016 to mitigate the effects the roadworks.

**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 W16: Chingford Mount, Prince Albert - Leytonstone Station**

**Date of Structural Change:** 19 October 2013.

**Date of Service Change:** 4 March 2017.

**Reason for Issue:** {To be specified}.

### **STREETS TRAVERSED**

**Towards Leytonstone Station:** Albert Crescent, Hall Lane, New Road, Larkshall Road, The Broadway, Winchester Road, Fulbourne Road, Wood Street, Vallentin Road, Shernhall Street, Eastern Road, Lea Bridge Road, High Road Leyton, Hainault Road, Fairlop Road, Grove Green Road, Leytonstone Station Plaza.

**Towards Chingford Mount, Prince Albert:** Leytonstone Station Plaza, Fairlop Road, Hainault Road, High Road Leyton, Capworth Street, Dunton Road, Lea Bridge Road, Eastern Road, Shernhall Street, Vallentin Road, Wood Street, Fulbourne Road, Winchester Road, The Broadway, Larkshall Road, New Road, Old Church Road, Albert Crescent.

### **AUTHORISED STANDS, CURTAILMENT POINTS, & BLIND DESCRIPTIONS**

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

### **CHINGFORD MOUNT, PRINCE ALBERT**

Public stand for 4 buses in marked bays on south side of Albert Crescent commencing opposite No. 3 and extending 28 metres east.

Buses proceed from Albert Crescent direct to stand, departing to Albert Crescent. Set down in Albert Crescent, at Alighting Point (29011 - Chingford Mount, Last Stop on LOR: R0479 - Chingford Mount) and pick up in Albert Crescent, at Stop C (FC85 - Chingford Mount, First Stop on LOR: FC85 - Chingford Mount).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 2 buses on Route W16 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:	Chingford Mount.
OTHER INFORMATION:	No toilets available.

### **CHINGFORD HATCH (from LEYTONSTONE STATION)**

Buses proceed from Larkshall Road via New Road departing to Larkshall Road. Set down in Larkshall Road, at Stop HU (17938 - St Anne's Parish Church, Last Stop on LOR: 17938 - St Anne's Parish Church) and pick up in Larkshall Road, at Stop HT (17937 - St Anne's Parish Church, First Stop on LOR: 17937 - St Anne's Parish Church).

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

### **HIGHAMS PARK STATION (from LEYTONSTONE STATION)**

Buses proceed from The Broadway via Larkshall Road, Hickman Avenue, Jubilee Avenue and Larkshall Road departing to The Broadway. Set down in The Broadway, at Stop WR (17930 - Highams Park Station #, Last Stop on LOR: 17930 - Highams Park Station #) and pick up in The Broadway, at Stop WG (17929 - Highams Park Station #, First Stop on LOR: 17929 - Highams Park Station #).

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

### **WALTHAMSTOW, SHERNALL STREET**

From Chingford Mount, Prince Albert.

Buses proceed from Wood Street via Vallentin Road, Shernhall Street and Forest Road departing to Fulbourne Road. Set down in Wood Street, at Stop L (17910 - Wood Street Station #, Last Stop on LOR: 17910 - Wood Street Station #) and pick up in Fulbourne Road (17916 - Clifford Road, First Stop on LOR: 17916 - Clifford Road).

From Leytonstone Station.

Buses proceed from Shernhall Street via Forest Road departing to Wood Street. Set down in Shernhall Street, at Stop T (17904 - Addison Road, Last Stop on LOR: 17904 - Addison Road) and pick up in Wood Street (17913 - Woodlands Road, First Stop on LOR: 17913 - Woodlands Road).

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

### **LEYTON, BAKERS ARMS (from Chingford Mount, Prince Albert)**

Buses proceed from Lea Bridge Road via Bromley Road, Capworth Street and High Road Leyton departing to Lea Bridge Road. Set down in Lea Bridge Road, at Stop WE (10469 - Lea Bridge Road / Bakers Arms, Last Stop on LOR: 14264 - Fraser Road) and pick up in Lea Bridge Road, at Stop EH (10468 - Lea Bridge Road / Bakers Arms, First Stop on LOR: 10468 - Lea Bridge Road / Bakers Arms).

AVAILABILITY: At any time.  
OPERATING RESTRICTIONS: **Turning Point Only - Buses must not stand**  
BLIND DISPLAY: Leyton, Bakers Arms.

### **LEYTONSTONE STATION, PLAZA**

Private stand for one bus on the eastern arm of the Plaza between Fillebrook Road and Leytonstone Station at bus stop BP1792 (point letter C).

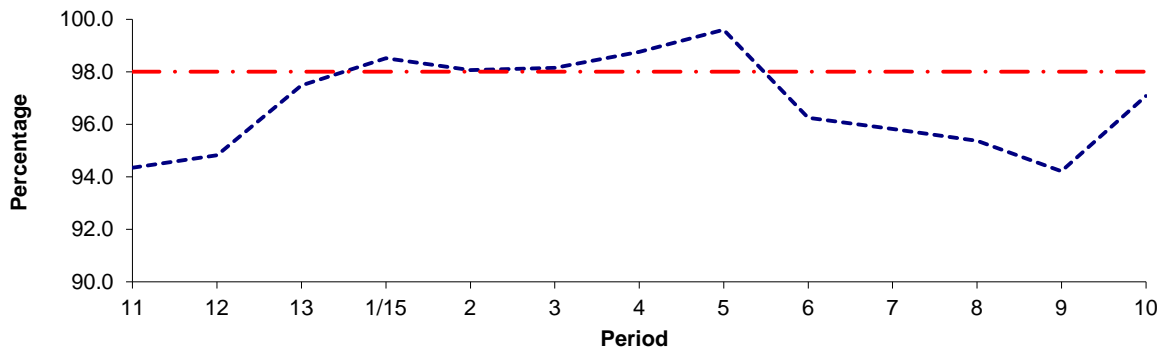
Buses proceed from Leytonstone Station Plaza direct to stand, departing to Leytonstone Station Plaza. Set down in Leytonstone Station Plaza, at Stop C (BP1792 - Leytonstone Station <>/ Grove Green Road, Last Stop on LOR: BP1792 - Leytonstone Station <>/ Grove Green Road) and pick up in Leytonstone Station Plaza, at Stop A (BP1790 - Leytonstone Station <> / Grove Green Road, First Stop on LOR: BP1790 - Leytonstone Station <> / Grove Green Road).

AVAILABILITY: At any time.  
OPERATING RESTRICTIONS: No more than 1 bus on Route W16 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: Leytonstone.  
OTHER INFORMATION: Public toilets available on station platform.

## PART B - PERFORMANCE STATISTICS

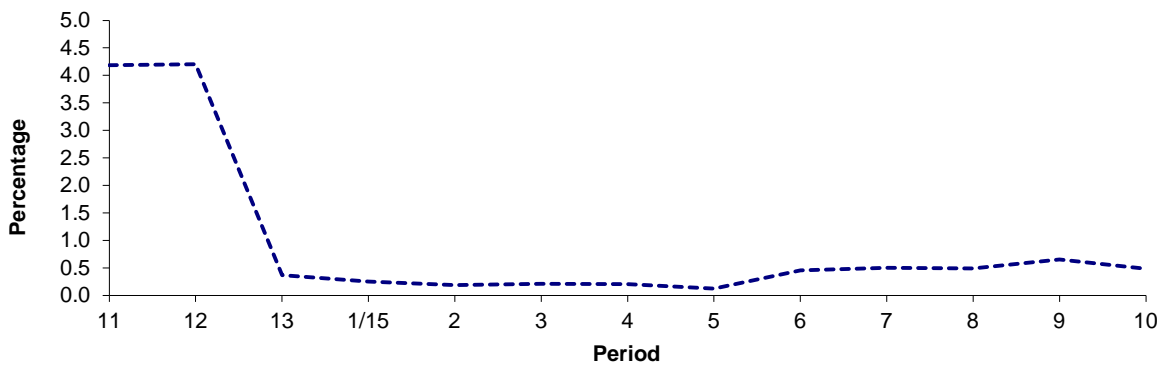
### Route W16

#### Mileage Operated



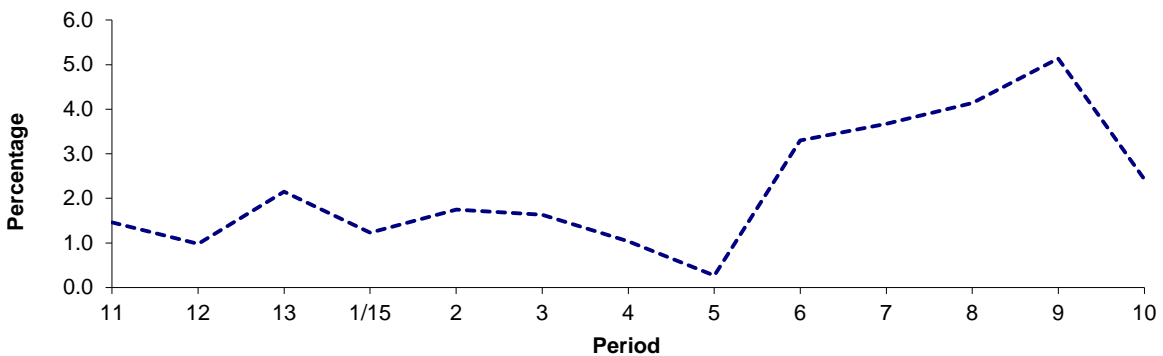
Period	11	12	13	1/15	2	3	4	5	6	7	8	9	10
2014/2015	94.35	94.82	97.48	98.52	98.06	98.15	98.76	99.61	96.25	95.82	95.37	94.21	97.08
Min Standard	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00	98.00

#### Deductible Mileage



Period	11	12	13	1/15	2	3	4	5	6	7	8	9	10
2014/2015	4.19	4.20	0.37	0.25	0.19	0.21	0.20	0.13	0.45	0.50	0.49	0.65	0.48

#### Non Deductible Mileage

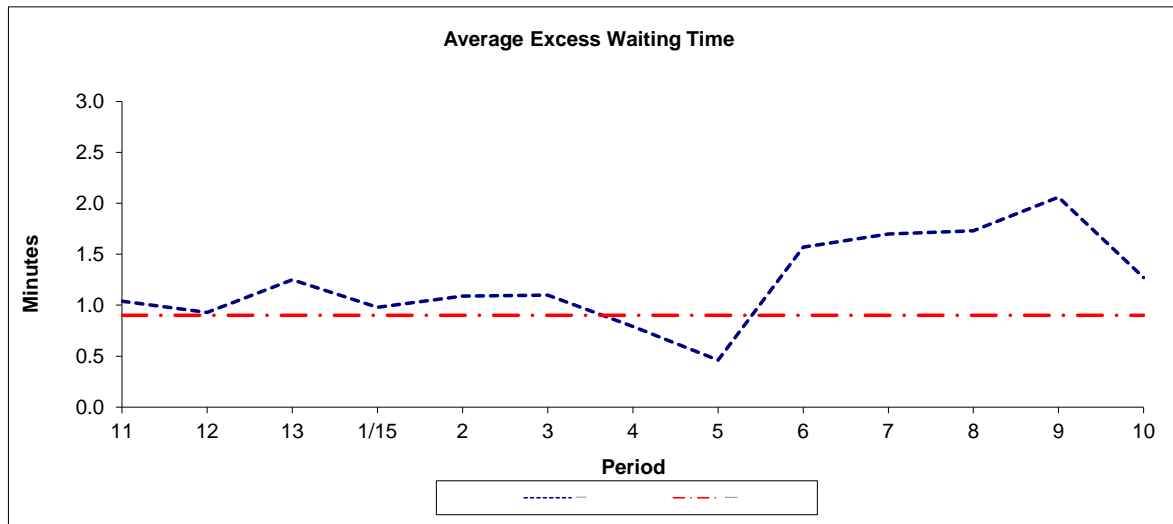


Period	11	12	13	1/15	2	3	4	5	6	7	8	9	10
2014/2015	1.46	0.98	2.15	1.23	1.75	1.64	1.04	0.27	3.30	3.67	4.14	5.13	2.43

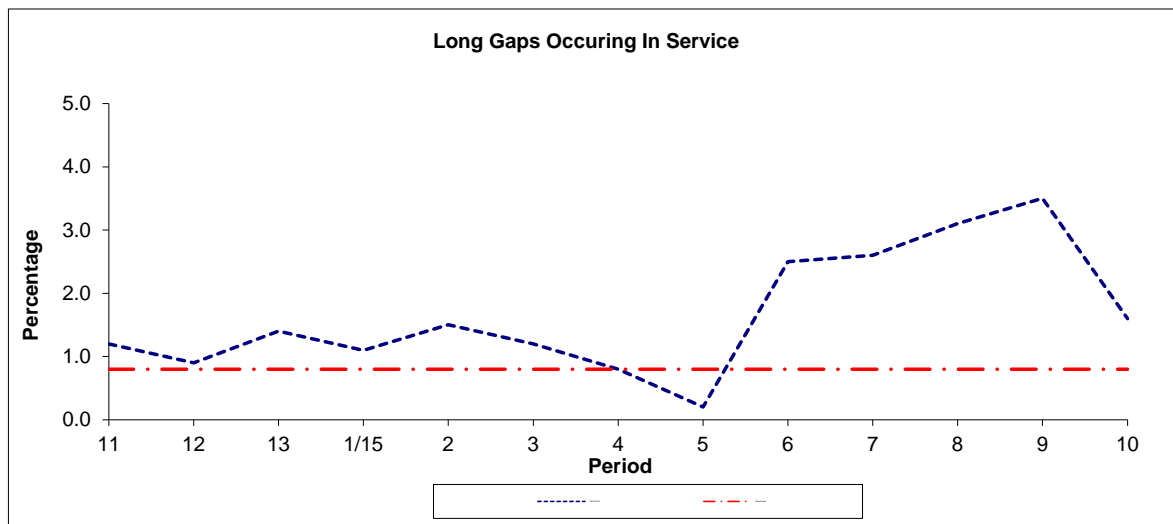
**Note :** Mileage is based on 4 weeks data  
Deductible Mileage was adversely affected by industrial action in periods 11 and 12 14/15.

## PART B - PERFORMANCE STATISTICS

### Route W16



Period	11	12	13	1/15	2	3	4	5	6	7	8	9	10
2014-2015	1.04	0.93	1.25	0.98	1.09	1.10	0.79	0.46	1.57	1.70	1.73	2.06	1.27
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	1/15	2	3	4	5	6	7	8	9	10
2014-2015	1.2	0.9	1.4	1.1	1.5	1.2	0.8	0.2	2.5	2.6	3.1	3.5	1.6
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 W16 - FULL iBUS RESULTS BY TIME OF DAY**  
**QUARTER 4 14/15 TO QUARTER 3 15/16 (03/01/15 - 08/01/16)**

**MONDAY - FRIDAY**

Time Range	Expected Buses	Observed Buses	Observed Buses (%)	SWT (mins)	EWT (mins)	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)
05:00 - 07:00	16,276.	16,213.	99.6	7.21	<b>0.27</b>	7.47	71.9	27.5	0.5	0.0	0.0	52
07:00 - 10:00	34,103.	32,852.	96.3	5.97	<b>0.99</b>	6.96	75.2	22.1	2.3	0.4	1.2	51
10:00 - 13:00	32,935.	32,561.	98.9	6.02	<b>0.99</b>	7.01	75.3	22.7	1.8	0.2	0.8	61
13:00 - 16:00	32,794.	31,694.	96.6	6.00	<b>1.27</b>	7.28	72.5	23.6	3.1	0.8	2.0	63
16:00 - 19:00	33,836.	30,536.	90.2	5.95	<b>2.68</b>	8.63	65.3	26.5	6.5	1.7	4.6	67
19:00 - 22:00	23,672.	23,713.	100.2	8.11	<b>1.26</b>	9.37	58.1	34.4	6.1	1.4	1.3	68
22:00 - 24:00	13,278.	13,451.	101.3	9.87	<b>0.32</b>	10.18	50.7	44.2	4.7	0.4	0.1	63
<b>Locations</b>	<b>186,894.</b>	<b>181,020.</b>	<b>96.9</b>	<b>6.42</b>	<b>1.42</b>	<b>7.84</b>	<b>69.3</b>	<b>26.0</b>	<b>3.8</b>	<b>0.8</b>	<b>2.0</b>	<b>68</b>

**SATURDAY**

Time Range	Expected Buses	Observed Buses	Observed Buses (%)	SWT (mins)	EWT (mins)	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)
05:00 - 07:00	2,344.	2,323.	99.1	10.07	<b>0.23</b>	10.30	52.8	42.5	4.4	0.4	0.0	44
07:00 - 10:00	6,073.	6,093.	100.3	6.85	<b>0.24</b>	7.09	75.3	24.2	0.5	0.0	0.0	42
10:00 - 13:00	6,917.	6,736.	97.4	6.02	<b>0.69</b>	6.71	76.5	21.6	1.4	0.4	0.9	50
13:00 - 16:00	6,875.	6,664.	96.9	6.00	<b>1.51</b>	7.51	72.3	24.0	3.0	0.6	1.7	78
16:00 - 19:00	7,145.	6,897.	96.5	5.96	<b>0.94</b>	6.89	76.6	21.6	1.6	0.2	0.8	62
19:00 - 22:00	4,532.	4,532.	100.0	8.58	<b>0.80</b>	9.38	55.5	37.3	5.7	1.5	0.9	61
22:00 - 24:00	2,700.	2,698.	99.9	9.90	<b>0.42</b>	10.32	50.2	44.0	5.2	0.6	0.1	44
<b>Locations</b>	<b>36,586.</b>	<b>35,943.</b>	<b>98.2</b>	<b>6.74</b>	<b>0.88</b>	<b>7.62</b>	<b>70.7</b>	<b>26.2</b>	<b>2.6</b>	<b>0.5</b>	<b>0.9</b>	<b>78</b>

**SUNDAY AND BANK HOLIDAYS**

Time Range	Expected Buses	Observed Buses	Observed Buses (%)	SWT (mins)	EWT (mins)	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)
05:00 - 07:00	852.	831.	97.5	15.05	<b>0.11</b>	15.16	65.2	15.8	16.0	3.0	6.7	60
07:00 - 10:00	3,479.	3,497.	100.5	13.57	<b>0.12</b>	13.69	39.7	36.9	21.1	2.3	0.0	63
10:00 - 13:00	4,777.	4,796.	100.4	10.03	<b>0.17</b>	10.20	51.5	43.6	4.5	0.3	0.1	42
13:00 - 16:00	4,763.	4,715.	99.0	9.88	<b>0.38</b>	10.26	50.6	42.9	5.9	0.6	0.2	67
16:00 - 19:00	4,812.	4,729.	98.3	9.86	<b>0.39</b>	10.25	50.7	43.2	5.4	0.7	0.2	63
19:00 - 22:00	4,902.	4,891.	99.8	9.58	<b>0.37</b>	9.94	51.7	43.4	4.4	0.6	0.2	52
22:00 - 24:00	3,126.	3,136.	100.3	9.90	<b>0.35</b>	10.25	50.2	44.5	4.6	0.8	0.4	81
<b>Locations</b>	<b>26,711.</b>	<b>26,595.</b>	<b>99.6</b>	<b>10.32</b>	<b>0.30</b>	<b>10.62</b>	<b>50.2</b>	<b>42.0</b>	<b>7.0</b>	<b>0.8</b>	<b>0.3</b>	<b>81</b>

**ALL DAYS**

Time Range	Expected Buses	Observed Buses	Observed Buses (%)	SWT (mins)	EWT (mins)	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)
05:00 - 07:00	19,472.	19,367.	99.5	7.85	<b>0.25</b>	8.10	69.7	28.1	1.9	0.3	0.5	60
07:00 - 10:00	43,655.	42,442.	97.2	6.44	<b>0.89</b>	7.33	73.4	23.0	3.1	0.5	1.1	63
10:00 - 13:00	44,629.	44,093.	98.8	6.51	<b>0.84</b>	7.35	72.5	25.1	2.1	0.3	0.7	61
13:00 - 16:00	44,432.	43,073.	96.9	6.45	<b>1.20</b>	7.66	69.9	25.9	3.4	0.7	1.7	78
16:00 - 19:00	45,793.	42,162.	92.1	6.33	<b>2.25</b>	8.58	65.2	27.5	5.8	1.4	3.7	67
19:00 - 22:00	33,106.	33,136.	100.1	8.35	<b>1.09</b>	9.44	57.0	35.9	5.8	1.3	1.1	68
22:00 - 24:00	19,104.	19,285.	100.9	9.88	<b>0.34</b>	10.21	50.5	44.2	4.8	0.5	0.1	81
<b>Locations</b>	<b>250,191.</b>	<b>243,558.</b>	<b>97.3</b>	<b>6.85</b>	<b>1.24</b>	<b>8.09</b>	<b>67.6</b>	<b>27.6</b>	<b>4.0</b>	<b>0.8</b>	<b>1.7</b>	<b>81</b>

Transport for London - QSI Points and Live Mileage List

v2.0 - Mileage directly imported from Caesar

Route W16  
Service change 26124  
Date 08/02/2012  
QSI Points are highlighted.

Reason for Issue	New Contract
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OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
CHMTPA	FC85	Chingford Mount		
	29734	Brook Crescent	182	0.11
	15995	Larkwood School	353	0.22
	14699	Grove Road	313	0.19
	15993	Mapleton Road	371	0.23
	17937	St Anne's Parish Church	332	0.21
	17935	Larkshall Crescent	237	0.15
	17933	East View	313	0.19
	17932	Hickman Avenue	439	0.27
HMPKSN	17929	Highams Park Station	248	0.15
	17927	Haldan Road	325	0.20
	17925	Swanage Road	228	0.14
	17923	Wadham Road	252	0.16
	17921	Garner Road / North Arm	326	0.20
	17919	Queenswood Avenue	352	0.22
	17917	Victoria Road	250	0.16
	17915	Forest Road / Wood Street	250	0.16
	17913	Woodlands Road	279	0.17
	17911	Cuthbert Road	176	0.11
WDSTSN	17910	Wood Street Station	186	0.12
	17905	Brookfield Avenue	512	0.32
	17903	Addison Road	189	0.12
	17901	Oliver Road	276	0.17
	14270	Peterborough Road	385	0.24
	14266	Essex Road	217	0.13
	14264	Fraser Road	213	0.13
LEYTBAE	10469	Lea Bridge Road / Bakers Arms	272	0.17
	7967	Leyton Green	260	0.16
	7971	Colchester Road	265	0.16
	7973	Leyton Midland Road Station	348	0.22
	7975	Hainault Road	158	0.10
	18008	King Edward Road	124	0.08
	18006	The Sidings	248	0.15
	18004	Bulwer Road	215	0.13
	18002	St Catherine's Church	306	0.19
	18000	Clarendon Road	225	0.14
LSTNSP	BP1792	Leytonstone Station / Grove Green Road	342	0.21
Total Route Mileage - Out Direction			9967	6.19
			Metres	Miles

BACK DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
LSTNSP	BP1790	Leytonstone Stn / Grove Green Road		
	18001	Clarendon Road	328	0.20
	18003	St Catherine's Church	216	0.13
	18005	Bulwer Road	237	0.15
	18007	The Sidings	232	0.14
	33833	King Edward Road	294	0.18
	7974	Leyton Midland Road Station	362	0.22
	7972	Colchester Road	184	0.11
	FL011	Leyton Green	172	0.11
LEYTBAW	R0013	High Road Leyton / Bakers Arms	678	0.42
	10468	Lea Bridge Road / Bakers Arms	183	0.11
	14265	Leyton Green Road	286	0.18
	14267	S hernhall S treet	191	0.12
	14269	Peterborough Road	244	0.15
	17902	St Helens School	408	0.25
	17904	Addison Road	183	0.11
	17908	Church Lane	357	0.22
WDSTSN	BP5678	Wood Street Station		
	17912	Cuthbert Road		
	17914	Forest Road	302	0.19
	17916	Clifford Road	219	0.14
	17918	Victoria Road	263	0.16
	17920	Queenswood Avenue	207	0.13
	17922	Garner Road / North Arm	315	0.20
	17924	Wadham Road	303	0.19
	17926	Swanage Road	202	0.13
	17928	Haldan Road	209	0.13
HMPKSN	17930	Highams Park Station	391	0.24
	17931	Hickman Avenue	396	0.25
	17934	East View	239	0.15
	17936	Larkshall Crescent	334	0.21
	17938	St Anne's Parish Church	349	0.22
	15994	Mapleton Road	251	0.16
	14700	Grove Road	391	0.24
	15996	Larkwood School	350	0.22
	BP998	Brook Crescent	283	0.18
CHMTPA	R0479	Chingford Mount		
Total Route Mileage - Back Direction				6.38
			Metres	Miles