

## 7. Service Specification

Route: 248

Contract Reference: QC49101

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>	Romford Market, St. Edwards Way and Cranham, Moor Lane
<b>Contract Basis</b>	Incentivised
<b>Commencement Date</b>	26 <sup>th</sup> September 2015
<b>Vehicle Type</b>	87 capacity, dual door, double deck buses
<b>Current Maximum Approved Dimensions</b>	10.5 metres long and 2.55 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 0.80 minutes
<b>Extension Threshold</b>	Average Excess Wait Time Threshold - 0.70 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 20<sup>th</sup> October 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 & 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. 248.

Tenderers should note that there are no changes proposed as part of this Service Specification for Route No. 248.

**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.

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

**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.**

### 3) SCHEDULE REQUIREMENTS & PINCHPOINTS

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

Romford Market, St. Edwards Way to Cranham, Moor Lane			Cranham, Moor Lane to Romford Market, St. Edwards Way		
First departure no later than 0515.			First departure no later than 0455.		
0510 - 0635	Every 20 minutes		0450 - 0535	Every 20 minutes	
0636 - 0700	Every 12 minutes		0536 - 0635	Every 12 minutes	
0701 - 0725	Every 10 minutes		0636 - 0705	Every 10 minutes	
0726 - 0740	Every 8 minutes		0706 - 1535	Every 8 minutes	
0741 - 0755	Every 4 minutes (15 buses per hour)		1536 - 1545	Every 4 minutes (15 buses per hour)	
0755 - 1900	Every 8 minutes		1546 - 1840	Every 8 minutes	
1901 - 1930	Every 10 minutes		1841 - 1920	Every 10 minutes	
1931 - 2040	Every 12 minutes		1921 - 2020	Every 12 minutes	
2041 - 0045	Every 15 minutes		2021 - 0010	Every 15 minutes	
Last departure no earlier than 0040.			Last departure no earlier than 0005.		
<b>Pinchpoints</b>					
Upminster Station	0726 - 0750	10 minutes	Hornchurch Town Centre	0720 - 0920	8 minutes
	0751 - 0805	8 minutes			
	0806 - 0820	4 minutes			
	0821 - 0900	8 minutes			
	1500 - 1640	8 minutes			
				1500 - 1555	8 minutes
				1556 - 1605	4 minutes
				1606 - 1635	8 minutes

#### 3.2) MONDAY TO FRIDAY NON SCHOOLDAYS SCHEDULE REQUIREMENTS & PINCHPOINTS

Romford Market, St. Edwards Way to Cranham, Moor Lane			Cranham, Moor Lane to Romford Market, St. Edwards Way		
First departure no later than 0515.			First departure no later than 0455.		
0510 - 0635	Every 20 minutes		0450 - 0535	Every 20 minutes	
0636 - 0700	Every 12 minutes		0536 - 0635	Every 12 minutes	
0701 - 0725	Every 10 minutes		0636 - 0705	Every 10 minutes	
0726 - 1900	Every 8 minutes		0706 - 1840	Every 8 minutes	
1901 - 1930	Every 10 minutes		1841 - 1920	Every 10 minutes	
1931 - 2040	Every 12 minutes		1921 - 2020	Every 12 minutes	
2041 - 0045	Every 15 minutes		2021 - 0010	Every 15 minutes	
Last departure no earlier than 0040.			Last departure no earlier than 0005.		
<b>Pinchpoints</b>					
Upminster Station	0725 - 0750	10 minutes	Hornchurch Town Centre	0720 - 0920	8 minutes
	0751 - 0900	8 minutes		1500 - 1635	8 minutes
	1500 - 1640	8 minutes			

**3) SCHEDULE REQUIREMENTS & PINCHPOINTS - continued**

**3.3) SATURDAY AND GOOD FRIDAY SCHEDULE REQUIREMENTS & PINCHPOINTS**

Romford Market, St. Edwards Way to Cranham, Moor Lane			Cranham, Moor Lane to Romford Market, St. Edwards Way		
First departure no later than 0515.			First departure no later than 0455.		
0510 - 0735	Every 20 minutes		0450 - 0715	Every 20 minutes	
0736 - 0850	Every 15 minutes		0716 - 0815	Every 15 minutes	
0851 - 1825	Every 8 minutes		0816 - 1815	Every 8 minutes	
1826 - 2025	Every 12 minutes		1816 - 2005	Every 12 minutes	
2026 - 0045	Every 15 minutes		2006 - 0010	Every 15 minutes	
Last departure no earlier than 0040.			Last departure no earlier than 0005.		
<b>Pinchpoints</b>					
Upminster Station	0915 - 1115	8 minutes	Hornchurch Town Centre	0835 - 1100	8 minutes

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

Romford Market, St. Edwards Way to Cranham, Moor Lane			Cranham, Moor Lane to Romford Market, St. Edwards Way		
First departure no later than 0635.			First departure no later than 0555.		
0630 - 0935	Every 20 minutes		0550 - 0835	Every 20 minutes	
0936 - 0045	Every 15 minutes		0836 - 0010	Every 15 minutes	
Last departure no earlier than 0040.			Last departure no earlier than 0005.		
<b>Pinchpoints</b>					
Upminster Station	0955 - 1040	15 minutes	Hornchurch Town Centre	0950 - 1135	15 minutes

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

#### **4) OPERATIONAL CONSIDERATIONS**

- 4.1) Route No. 248 can suffer from unpredictable traffic delays in the Romford and Hornchurch areas.
- 4.2) Romford Market, which is held on Wednesdays, Fridays and Saturdays, can lead to traffic delays in the Romford area.
- 4.3) Further developments are progressing in Romford town centre, including the Market Square and the new Asda store at Liberty 2 (located at the junction of Main Road, St. Edwards Way and Mercury Gardens). Over the next 10 years, there should be fairly significant increases in residential and commercial properties within and along the inner ring road. This will affect demand on the route.
- 4.4) 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. 248 and it is anticipated that some passenger demand for Route No. 248 may shift to this line when it opens. Route No. 248 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 248: Romford Market - Cranham, Moor Lane**

**Date of Structural Change:** 26 September 2015.

**Date of Service Change:** 26 September 2015.

**Reason for Issue:** New Tender.

### **STREETS TRAVERSED**

**Towards Cranham, Moor Lane:** St Edwards Way, Main Road Roundabout, Mercury Gardens, Western Road, Chandlers Way, Eastern Road, South Street, Rom Valley Way, Roneo Corner, Hornchurch Road, Hornchurch High Street, Upminster Road, St Mary's Lane, Station Road, Hall Lane, Avon Road, Front Lane, Roseberry Gardens, Waycross Road, Brunswick Avenue, Front Lane.

**Towards Romford Market:** Front Lane, Roseberry Gardens, Waycross Road, Brunswick Avenue, Avon Road, Hall Lane, Station Road, St Mary's Lane, Upminster Road, Hornchurch High Street, Station Lane, Hornchurch High Street, Hornchurch Road, Roneo Link, Roneo Corner, Rom Valley Way, South Street, Western Road, Mercury Gardens, Main Road Roundabout, St Edwards Way.

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

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

### **ROMFORD MARKET, ST EDWARDS WAY**

Public stand for five buses in bus parking area on north side of St Edward's Way, at the junction with Church Lane.

Buses proceed from St Edwards Way via St Edwards Way Bus Stand to stand, departing via St Edwards Way Bus Stand to St Edwards Way. Set down in St Edwards Way, at Stop L (34118 - Romford Market, Last Stop on LOR: 34118 - Romford Market) and pick up in St Edwards Way, at Stop G (34094 - Romford Market, First Stop on LOR: 34094 - Romford Market).

<b>AVAILABILITY:</b>	At any time.
<b>OPERATING RESTRICTIONS:</b>	No more than 2 buses on Route 248 should be scheduled to stand at any one time.
<b>MEAL RELIEFS:</b>	No meal relief vehicles to stand at any time.
<b>FERRY VEHICLES:</b>	No ferry vehicles to park on stand at any time.
<b>BLIND DISPLAY:</b>	Romford Market.

### **ROMFORD STATION, ATLANTA BOULEVARD (from CRANHAM, MOOR LANE)**

Private stand for 15 buses in marked bays in Bus Parking Area in Atlanta Boulevard on south side of Romford Station.

Buses proceed from South Street via Atlanta Boulevard to stand, departing via Atlanta Boulevard to South Street. Set down in South Street, at Stop X (R0681 - Romford Station #, Last Stop on LOR: R0681 - Romford Station #) and pick up in South Street, at Stop Y (R0591 - Romford Station #, First Stop on LOR: R0591 - Romford 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:	Romford Station.
OTHER INFORMATION:	Private (LBSL) toilet facilities available 24 hrs; mess room with tea machine with digital locks to 3 doors.

### **RONEO CORNER (from CRANHAM, MOOR LANE)**

Buses proceed from Hornchurch Road via Roneo Link departing to Hornchurch Road. Set down in Hornchurch Road, at Stop RF (9772 - Park Lane, Last Stop on LOR: 9772 - Park Lane) and pick up in Hornchurch Road, at Stop RB (FC54 - Roneo Corner / Tesco, First Stop on LOR: FC54 - Roneo Corner / Tesco).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	<b>Turning Point Only - Buses must not stand</b>
BLIND DISPLAY:	Roneo Corner.



## **HORNCHURCH TOWN CENTRE**

Public stand for two buses on west side of Station Lane, commencing at lamp standard No 3 and extending 22 metres south.

### **From Cranham, Moor Lane.**

Buses proceed from Station Lane direct to stand, departing via Station Lane to Hornchurch High Street. Set down in Station Lane, at Stop G (8528 - Hornchurch Town Centre, Last Stop on LOR: 8528 - Hornchurch Town Centre) and pick up in Hornchurch High Street, at Stop F (8527 - Hornchurch Town Centre, First Stop on LOR: 8527 - Hornchurch Town Centre).

### **From Romford Market.**

Buses proceed from Hornchurch High Street via Station Lane to stand, departing to Station Lane. Set down in Hornchurch High Street, at Stop F (8527 - Hornchurch Town Centre, Last Stop on LOR: 8527 - Hornchurch Town Centre) and pick up in Station Lane, at Stop G (8528 - Hornchurch Town Centre, First Stop on LOR: 8528 - Hornchurch Town Centre).

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:	Hornchurch Town Centre.

## **UPMINSTER STATION (from Romford Market)**

Private stand for two buses on south side of Station Approach, opposite No. 2 Station Approach and extending 20 metres east.

Buses proceed from Station Road via Station Approach, Station Turning Circle and Station Approach to stand, departing via Station Approach to Station Road. Set down in Station Road, at Stop A (25138 - Upminster Station <> #, Last Stop on LOR: 25138 - Upminster Station <> #) and pick up in Station Road, at Stop C (34165 - Upminster Station <> # / St Lawrence Road, First Stop on LOR: 34165 - Upminster Station <> # / St Lawrence Road).

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:	Upminster.

## **UPMINSTER PARK ESTATE, WAYCROSS ROAD (from Romford Market)**

Buses proceed from Waycross Road departing to Waycross Road. Set down in Waycross Road (33111 - Lexington Way, Last Stop on LOR: 33111 - Lexington Way) and pick up in Waycross Road (33111 - Lexington Way, First Stop on LOR: 33111 - Lexington Way).

AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	<b>Turning Point Only - Buses must not stand</b>
BLIND DISPLAY:	Upminster Park Estate.

## **CRANHAM, MOOR LANE**

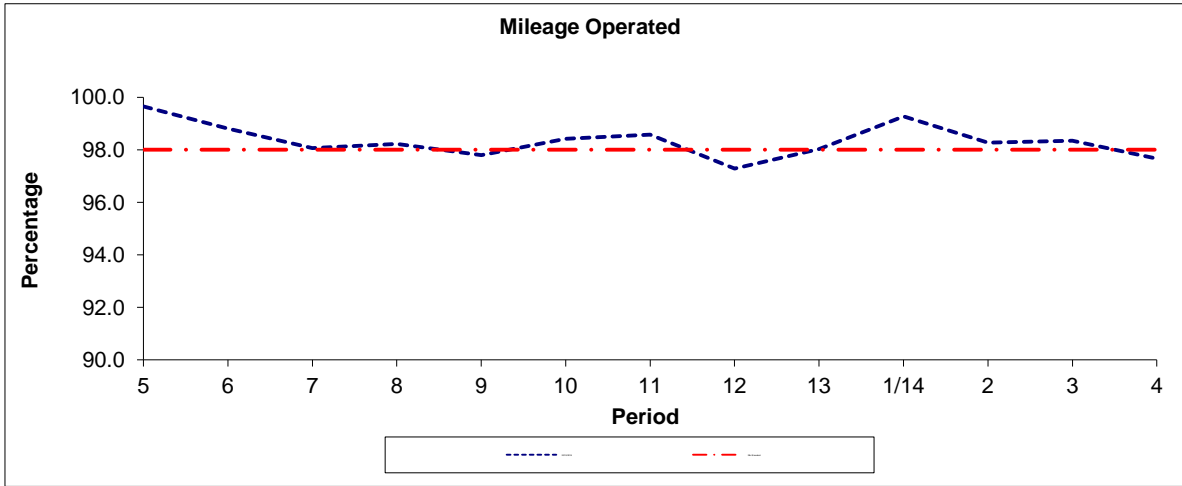
Private stand for two buses on north side of outer edge of car park on west side of Front Lane, 60 metres south of Moor Lane.

Buses proceed from Front Lane via Car Park to stand, departing via Car Park to Front Lane. Set down in Front Lane, at Alighting Point (18416 - Moor Lane, Last Stop on LOR: 18416 - Moor Lane) and pick up in Front Lane (18415 - Moor Lane, First Stop on LOR: 18415 - Moor Lane).

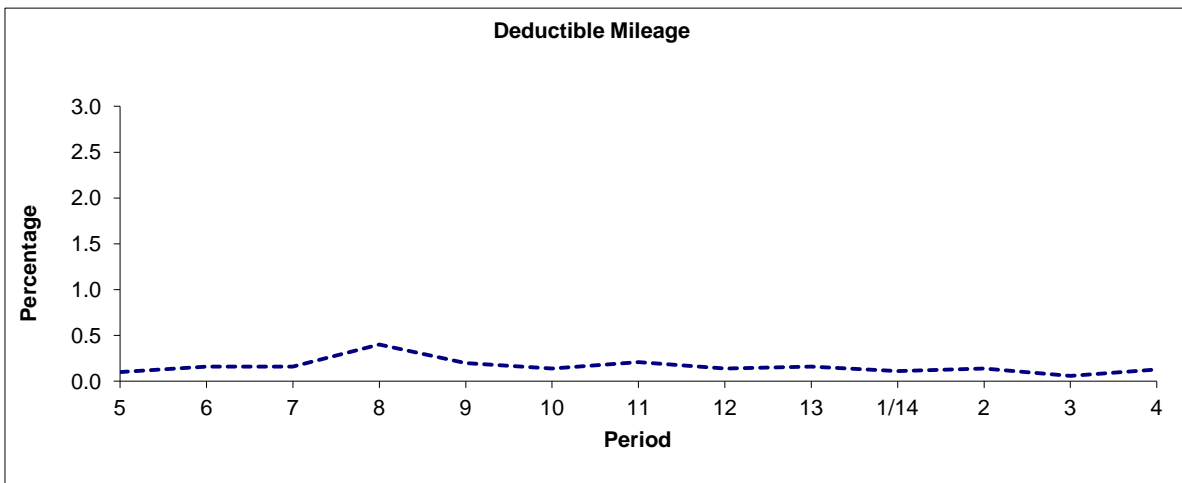
AVAILABILITY:	At any time.
OPERATING RESTRICTIONS:	No more than 2 buses on Route 248 should be scheduled to stand at any one time.
MEAL RELIEFS:	No meal relief vehicles to stand at any time.
FERRY VEHICLES:	No ferry vehicles to park on stand at any time.
BLIND DISPLAY:	Cranham.

**PART B - PERFORMANCE STATISTICS**

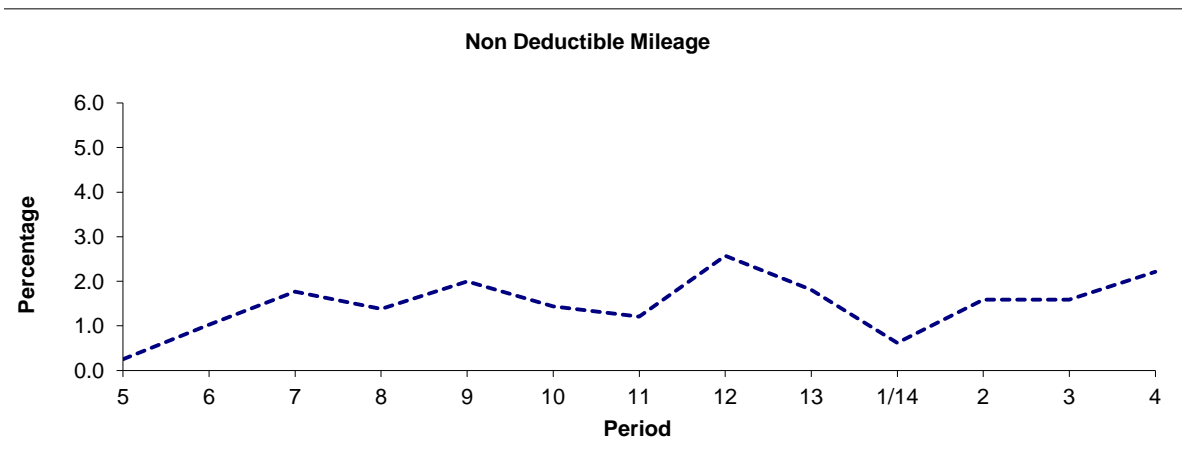
**Route 248**



Period	5	6	7	8	9	10	11	12	13	1/14	2	3	4
2013/2014	99.65	98.81	98.07	98.22	97.80	98.42	98.58	97.29	98.03	99.27	98.27	98.35	97.66
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



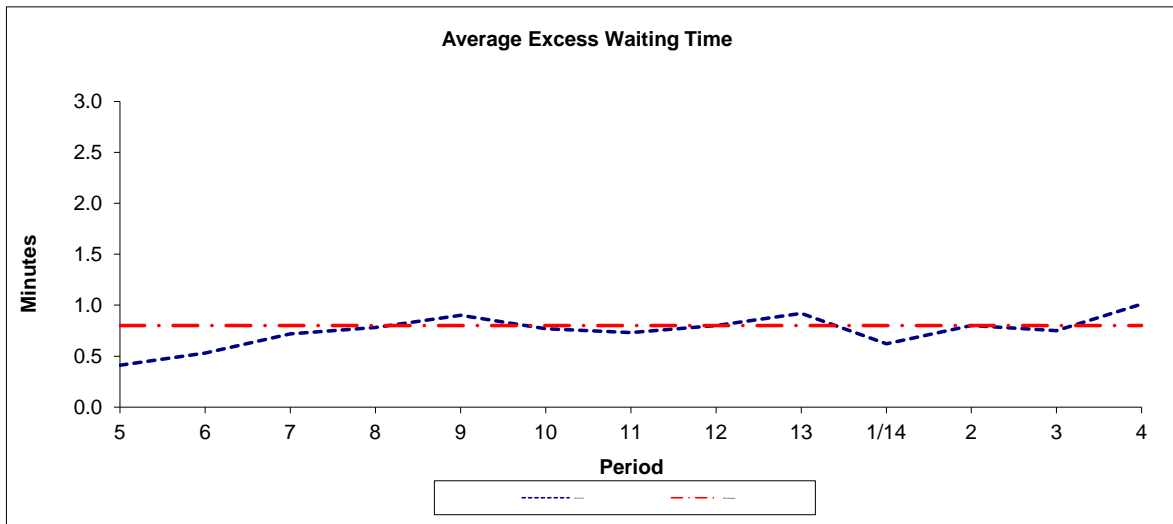
Period	5	6	7	8	9	10	11	12	13	1/14	2	3	4
2013/2014	0.10	0.16	0.16	0.40	0.20	0.14	0.21	0.14	0.16	0.11	0.14	0.06	0.13



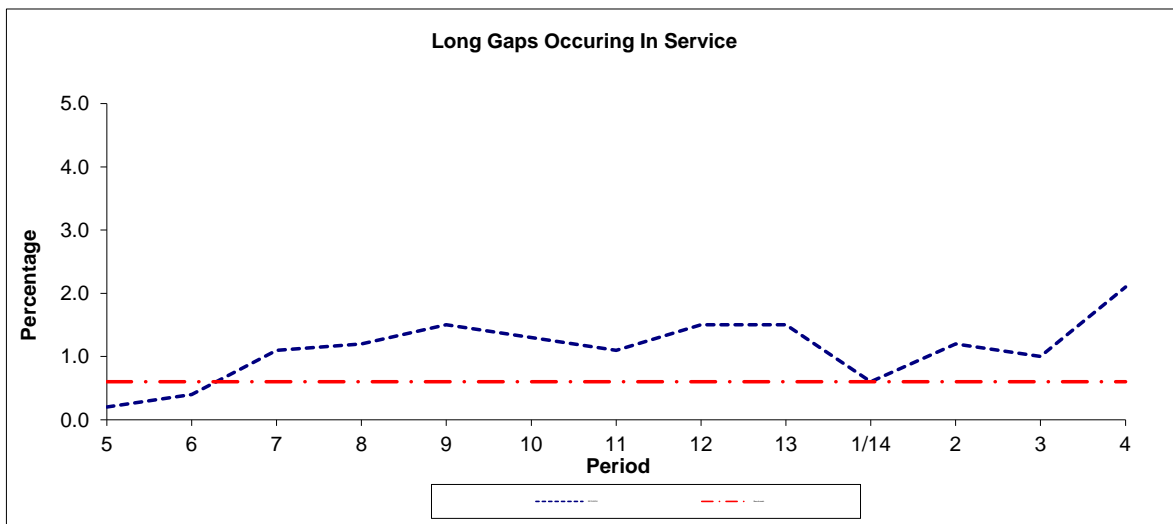
Period	5	6	7	8	9	10	11	12	13	1/14	2	3	4
2013/2014	0.25	1.03	1.77	1.38	2.00	1.44	1.21	2.57	1.81	0.62	1.59	1.59	2.21

**Note :** Mileage is based on 4 weeks data

**PART B - PERFORMANCE STATISTICS**



Period	5	6	7	8	9	10	11	12	13	1/14	2	3	4
2013-2014	0.41	0.53	0.72	0.78	0.90	0.77	0.73	0.80	0.92	0.62	0.80	0.75	1.01
Min Standard	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80



Period	5	6	7	8	9	10	11	12	13	1/14	2	3	4
2013-2014	0.2	0.4	1.1	1.2	1.5	1.3	1.1	1.5	1.5	0.6	1.2	1.0	2.1
Benchmark	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

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

**ROUTE 248 - FULL iBUS RESULTS BY TIME OF DAY**  
**QUARTER 2 13/14 TO QUARTER 1 14/15 (22/06/13 - 20/06/14)**

**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	18,714.	97.7	8.00	0.31	8.31	70.1	27.7	2.1	0.1	0.0	45
0700 - 1000	60,971.	97.1	4.07	0.88	4.95	90.8	8.6	0.5	0.1	1.6	51
1000 - 1300	59,692.	99.2	4.01	0.68	4.68	93.5	6.3	0.1	0.0	0.6	53
1300 - 1600	62,119.	98.0	3.90	0.74	4.65	92.3	7.3	0.3	0.0	1.1	46
1600 - 1900	61,339.	96.7	3.98	1.11	5.08	89.4	10.0	0.6	0.0	2.1	43
1900 - 2200	38,480.	99.9	6.05	0.53	6.58	76.1	23.1	0.8	0.1	0.4	45
2200 - 2400	21,136.	100.9	7.50	0.21	7.71	66.8	32.7	0.5	0.0	0.0	41
<b>Summary</b>	<b>322,451.</b>	<b>98.2</b>	<b>4.50</b>	<b>0.79</b>	<b>5.28</b>	<b>87.9</b>	<b>11.6</b>	<b>0.5</b>	<b>0.0</b>	<b>1.2</b>	<b>53</b>

**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	3,068.	99.7	10.00	0.19	10.19	52.7	43.5	3.7	0.1	0.0	41
0700 - 1000	8,707.	100.3	6.22	0.28	6.50	80.9	18.3	0.8	0.0	0.1	35
1000 - 1300	12,946.	96.5	4.00	0.77	4.77	91.8	7.9	0.3	0.0	1.0	31
1300 - 1600	12,658.	99.6	4.00	0.88	4.88	91.6	8.2	0.3	0.0	1.1	32
1600 - 1900	12,272.	98.4	4.22	0.44	4.66	93.1	6.8	0.1	0.0	0.3	26
1900 - 2200	7,787.	99.6	6.45	0.41	6.86	74.1	25.3	0.5	0.0	0.1	50
2200 - 2400	4,360.	100.7	7.50	0.22	7.72	66.7	32.7	0.6	0.0	0.0	33
<b>Summary</b>	<b>61,798.</b>	<b>98.9</b>	<b>4.92</b>	<b>0.59</b>	<b>5.51</b>	<b>86.4</b>	<b>13.1</b>	<b>0.4</b>	<b>0.0</b>	<b>0.6</b>	<b>50</b>

**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	1,309.	103.3	10.04	0.15	10.19	72.2	24.9	2.5	0.4	3.5	48
0700 - 1000	5,989.	98.0	9.22	0.31	9.53	55.1	41.4	3.3	0.2	0.1	63
1000 - 1300	7,557.	96.9	7.42	0.54	7.97	65.3	32.7	1.7	0.2	0.2	35
1300 - 1600	7,429.	99.9	7.40	0.58	7.98	66.2	31.7	1.6	0.5	0.5	57
1600 - 1900	7,397.	99.6	7.49	0.33	7.82	66.2	32.7	1.0	0.0	0.0	47
1900 - 2200	7,307.	100.7	7.49	0.23	7.72	66.6	32.9	0.5	0.0	0.0	35
2200 - 2400	4,968.	100.9	7.50	0.12	7.62	66.9	32.9	0.2	0.0	0.0	31
<b>Summary</b>	<b>41,956.</b>	<b>99.4</b>	<b>7.65</b>	<b>0.40</b>	<b>8.05</b>	<b>65.2</b>	<b>33.2</b>	<b>1.4</b>	<b>0.2</b>	<b>0.2</b>	<b>63</b>

**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	23,091.	98.3	8.30	0.29	8.59	68.4	29.3	2.3	0.1	0.2	48
0700 - 1000	75,667.	97.5	4.50	0.80	5.30	88.3	11.0	0.7	0.1	1.4	63
1000 - 1300	80,195.	98.5	4.38	0.68	5.06	90.1	9.5	0.3	0.0	0.6	53
1300 - 1600	82,206.	98.4	4.27	0.75	5.02	89.6	9.9	0.4	0.1	1.1	57
1600 - 1900	81,008.	97.2	4.34	0.96	5.30	87.6	11.8	0.6	0.0	1.7	47
1900 - 2200	53,574.	100.0	6.26	0.48	6.74	74.8	24.4	0.7	0.1	0.3	50
2200 - 2400	30,464.	100.9	7.50	0.20	7.70	66.8	32.7	0.5	0.0	0.0	41
<b>Summary</b>	<b>426,205.</b>	<b>98.4</b>	<b>4.84</b>	<b>0.73</b>	<b>5.57</b>	<b>85.6</b>	<b>13.8</b>	<b>0.6</b>	<b>0.1</b>	<b>1.0</b>	<b>63</b>

## Transport for London - QSI Points and Live Mileage List

Route 248  
 Service change 34356  
 Date 12/08/2013

Reason for Issue
------------------

QSI Points are highlighted

OUT DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
ROMFSE	34094	Romford Market		
	LE135	Mercury Gardens	270	0.17
	R0656	Western Road	365	0.23
ROMFSN	R0591	Romford Station	491	0.31
	18028	Thurloe Gardens	272	0.17
	R0500	Brentwood Road	257	0.16
	37088	Clydesdale Road	250	0.16
ROMFRC	37151	Roneo Corner	326	0.20
	FC54	Roneo Corner Tesco	244	0.15
	9773	Park Lane	354	0.22
	12904	Hyland Way	464	0.29
	18032	Harrow Lodge Park	287	0.18
	9771	Abbs Cross Lane	592	0.37
	FC05	Billet Lane	120	0.07
HORNTC	8527	Hornchurch Town Centre	398	0.25
	20420	St Andrew's Church	391	0.24
	8525	Hacton Lane	156	0.10
	9767	Upminster Bridge Station	528	0.33
	18034	Upminster Windmill	457	0.28
	27707	St Laurence Church	273	0.17
	25140	Gaynes Road	316	0.20
UPMNSN	25138	Upminster Station	175	0.11
	25233	Deyncourt Gardens	260	0.16
	25235	Ingrebourne Gardens	288	0.18
	25237	The Fairway	274	0.17
	25239	Upminster Tithe Barn Museum	226	0.14
	25241	River Drive	303	0.19
	29146	Severn Drive	124	0.08
	29165	Mersey Avenue	257	0.16
	29167	Crouch Valley	231	0.14
	29169	Front Lane	245	0.15
	33110	Upminster Park Estate	301	0.19
UPKEWR	33111	Lexington Way	467	0.29
	3312	Brunswick Avenue	274	0.17
	34161	Briarleas Gardens	175	0.11
	34162	Kings Gardens	224	0.14
CRNMML	18416	Moor Lane	527	0.33
Total Route Mileage - Out Direction			11162	6.94
			11162	6.94

<b>TRANCHE 491</b>
--------------------

Removal of evening re-routeing in Romford Town
--

BACK DIRECTION				
Timing Point Code	Stop Number	Stop Name	Metres	Miles
CRNMML	18415	Moor Lane		
	34163	Kings Gardens	418	0.26
	34164	Briarleas Gardens	219	0.14
	33110	Upminster Park Estate	382	0.24
UPKEWR	33111	Lexington Way	467	0.29
	3312	Brunswick Avenue	274	0.17
	29170	Front Lane	244	0.15
	29168	Crouch Valley	212	0.13
	29166	Mersey Avenue	257	0.16
	25242	Severn Drive	223	0.14
	BP616	River Drive	145	0.09
	25240	Upminster Tithe Barn Museum	388	0.24
	25238	The Fairway	169	0.11
	25236	Ingrebourne Gardens	247	0.15
	25234	Upminster Station	385	0.24
UPMNSN	34165	Upminster Stn / St Lawrence Road	206	0.13
	25141	St Laurence Church	321	0.20
	18033	Upminster Windmill	413	0.26
	9766	Upminster Bridge Station	451	0.28
	8524	Hacton Lane	478	0.30
	20421	St Andrew's Church	223	0.14
HORNTC	8528	Hornchurch Town Centre	433	0.27
	9768	Billet Lane	376	0.23
	18422	Abbs Cross Lane	314	0.20
	18031	Harrow Lodge Park	227	0.14
	12905	Hyland Way	507	0.32
	9772	Park Lane	550	0.34
ROMFRC	37152	Roneo Corner	536	0.33
	37089	Clydesdale Road	432	0.27
	18029	Brentwood Road	334	0.21
ROMFSN	R0681	Romford Station	380	0.24
	BP4227	Western Road	489	0.30
ROMFSE	34118	Romford Market	504	0.31
Total Route Mileage - Back Direction			11204	6.96
			11204	6.96