APPENDIX B: Plots of ELPI Raw Data

1. Electrical Low Pressure Impactor (ELPI) Particle Size Distributions and Time-In-Route Plots by Bus, Fuel/Aftertreatment and Driving Route .......... Pages B-4 to B-75

FARMINGTON – Local Route—No. 1 Diesel Fuel
201, Farmington Inbound ............................................... B-4
201, Farmington Outbound ............................................. B-5
202, Farmington Inbound ............................................... B-6
202, Farmington Outbound ............................................. B-7
H301, Farmington Inbound ............................................. B-8
H301, Farmington Outbound .......................................... B-9
H302, Farmington Inbound ............................................. B-10
H302, Farmington Outbound .......................................... B-11

ENFIELD – Commuter Route—No. 1 Diesel Fuel
201, Enfield Inbound ..................................................... B-12
201, Enfield Outbound ................................................... B-13
202, Enfield Inbound ..................................................... B-14
202, Enfield Outbound ................................................... B-15
H301, Enfield Inbound .................................................. B-16
H301, Enfield Outbound ............................................... B-17
H302, Enfield Inbound .................................................. B-18
H302, Enfield Outbound ............................................... B-19

AVON – Arterial Route with Steep Grade—No. 1 Diesel Fuel
201, Avon Inbound ........................................................ B-20
201, Avon Outbound ...................................................... B-21
202, Avon Inbound ........................................................ B-22
202, Avon Outbound ...................................................... B-23
H301, Avon Inbound ..................................................... B-24
H301, Avon Outbound ................................................... B-25
H302, Avon Inbound ..................................................... B-26
H302, Avon Outbound ................................................... B-27

FARMINGTON – Local Route—ULSD Fuel
201, Farmington Inbound ............................................... B-28
201, Farmington Outbound ............................................. B-29
202, Farmington Inbound ............................................... B-30
202, Farmington Outbound ............................................. B-31
H301, Farmington Inbound ............................................. B-32
H301, Farmington Outbound ........................................... B-33
H302, Farmington Inbound ............................................. B-34
H302, Farmington Outbound ........................................... B-35
ENFIELD – Commuter Route—ULSD Fuel
201, Enfield Inbound.................................................................B-36
201, Enfield Outbound...............................................................B-37
202, Enfield Inbound.................................................................B-38
202, Enfield Outbound...............................................................B-39
H301, Enfield Inbound...............................................................B-40
H301, Enfield Outbound............................................................B-41
H302, Enfield Inbound...............................................................B-42
H302, Enfield Outbound............................................................B-43

AVON – Arterial Route with Steep Grade—ULSD Fuel
201, Avon Inbound.......................................................................B-44
201, Avon Outbound.................................................................B-45
202, Avon Inbound.......................................................................B-46
202, Avon Outbound.................................................................B-47
H301, Avon Inbound.....................................................................B-48
H301, Avon Outbound...............................................................B-49
H302, Avon Inbound.....................................................................B-50
H302, Avon Outbound...............................................................B-51

FARMINGTON – Local Route—ULSD Fuel + DPF
201, Farmington Inbound............................................................B-52
201, Farmington Outbound........................................................B-53
202, Farmington Inbound............................................................B-54
202, Farmington Outbound........................................................B-55
H301, Farmington Inbound........................................................B-56
H301, Farmington Outbound.......................................................B-57
H302, Farmington Inbound........................................................B-58
H302, Farmington Outbound.......................................................B-59

ENFIELD – Commuter Route—ULSD Fuel + DPF
201, Enfield Inbound.................................................................B-60
201, Enfield Outbound...............................................................B-61
202, Enfield Inbound.................................................................B-62
202, Enfield Outbound...............................................................B-63
H301, Enfield Inbound...............................................................B-64
H301, Enfield Outbound............................................................B-65
H302, Enfield Inbound...............................................................B-66
H302, Enfield Outbound............................................................B-67

AVON – Arterial Route with Steep Grade—ULSD Fuel + DPF
201, Avon Inbound.......................................................................B-68
201, Avon Outbound.................................................................B-69
202, Avon Inbound.......................................................................B-70
202, Avon Outbound.................................................................B-71
H301, Avon Inbound.....................................................................B-72
H301, Avon Outbound...............................................................B-73
H302, Avon Inbound.....................................................................B-74
H302, Avon Outbound...............................................................B-75
2. Electrical Low Pressure Impactor (ELPI) HEPA and Tunnel Blank Plots by Electrometer Range and Date of Sampling............................................. Pages B-76 to B-79

Pre-Run HEPA raw data........................................................................................................B-76
Post-Run HEPA raw data.....................................................................................................B-77
Pre-Run Tunnel Blank raw data .......................................................................................B-78
Mid-Run (Marshall’s) Tunnel Blank raw data ...................................................................B-79
Post-Run Tunnel Blank raw data........................................................................................B-79

NOTE: Raw ELPI data are uncorrected for dilution ratio and fraction of total exhaust flow sampled by minidiluter.
**Farmington Inbound –Diesel No. 1 – 201**

**NOTE y-axes limits are different for these plots.**
**Farmington Outbound – Diesel No. 1 – 201**

**NOTE y-axes limits are different for these plots.**
Farmington Inbound – Diesel No. 1 – 202
CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 Diesel No.1
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 Diesel No.1
SUM stages 1-12 (TPN)

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 Diesel No.1
Number Concentration, cm$^{-3}$
**Farmington Inbound – Diesel No. 1 – H301**

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
SUM stages 1-12 (TPN)

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 1: 7-29 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 2: 29-56 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 3: 56-95 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 4: 95-159 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 5: 159-266 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 6: 266-387 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 7: 387-621 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 8: 621-960 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 1: 7-29 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 2: 29-56 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 3: 56-95 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 4: 95-159 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 5: 159-266 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 6: 266-387 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 7: 387-621 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 Diesel No.1
Stage 8: 621-960 nm
**Farmington Outbound – Diesel No. 1 – H301**

**NOTE y-axes limits are different for these plots.**
**Farmington Inbound – Diesel No. 1 – H302**

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H302 Diesel No.1
Particle Size Distribution (SUM)

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Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm
**Farmington Outbound – Diesel No. 1 – H302**

**Particle Size Distribution (SUM)**

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**Stage 1:**

- 7-29 nm

**Stage 2:**

- 29-56 nm

**Stage 3:**

- 56-95 nm

**Stage 4:**

- 95-159 nm

**Stage 5:**

- 159-266 nm

**Stage 6:**

- 266-387 nm

**Stage 7:**

- 387-621 nm

**Stage 8:**

- 621-960 nm

---

**CTTransit Raw Data**

ELPI Data  Route: Farmington Outbound

Bus No. H302  Diesel No.1
Enfield Inbound – Diesel No. 1 – 201

CTTransit Raw Data
ELPI Data
Bus No. 201 Diesel No.1
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data
Route: Enfield Inbound
Bus No. 201 Diesel No.1
SUM stages 1-12 (TPN)

CTTransit Raw Data
ELPI Data
Route: Enfield Inbound
Bus No. 201 Diesel No.1
Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm
Enfield Outbound – Diesel No. 1 – 201

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 201 Diesel No. 1
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 201 Diesel No. 1
SUM stages 1-12 (TPN)

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 201 Diesel No. 1
Stage 1: 7-29 nm

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 201 Diesel No. 1
Stage 2: 29-56 nm

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 201 Diesel No. 1
Stage 3: 56-95 nm

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 201 Diesel No. 1
Stage 4: 95-159 nm

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 201 Diesel No. 1
Stage 5: 159-266 nm

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 201 Diesel No. 1
Stage 6: 266-387 nm

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 201 Diesel No. 1
Stage 7: 387-621 nm

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 201 Diesel No. 1
Stage 8: 621-960 nm
**Enfield Inbound – Diesel No. 1 – 202

**NOTE y-axes limits are different for these plots.
**Enfield Outbound – Diesel No. 1 – 202**

**NOTE y-axes limits are different for these plots.**
**Enfield Inbound – Diesel No. 1 – H301**

**NOTE y-axes limits are different for these plots.**
**Enfield Outbound – Diesel No. 1 – H301**

**NOTE y-axes limits are different for these plots.**
Enfield Inbound – Diesel No. 1 – H302

CTTransit Raw Data
ELPI Data Route: Enfield Inbound
Bus No. H302 Diesel No.1
Particle Size Distribution (SUM)

Time in Route (mm:ss)

Number Concentration, cm$^{-3}$

Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm
**Enfield Outbound – Diesel No. 1 – H302**

**NOTE y-axes limits are different for these plots.**
Avon Inbound – Diesel No.1 – 201

CTTransit Raw Data
ELPI Data Route: Avon Inbound
Bus No. 201 Diesel No.1
Particle Size Distribution (SUM)

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Stage 3: 56-95 nm

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Stage 4: 95-159 nm

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Stage 5: 159-266 nm

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Stage 6: 266-387 nm

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Stage 7: 387-621 nm

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Stage 8: 621-960 nm
Avon Outbound – Diesel No.1 – 201
Avon Inbound – Diesel No.1 – 202
Avon Outbound – Diesel No.1 – 202

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. 202 Diesel No.1
Particle Size Distribution (SUM)

Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm
Avon Inbound – Diesel No.1 – H301
Avon Outbound – Diesel No.1 – H301

CTTransit Raw Data
ELPI Data
Route: Avon Outbound
Bus No. H301  Diesel No.1
Particle Size Distribution (SUM)

Jan 21
Apr 16
Apr 21

dN/dlogDp

Number Concentration, cm$^{-3}$

Time in Route (mm:ss)
Avon Inbound – Diesel No.1 – H302

CTTransit Raw Data
ELPI Data Route: Avon Inbound
Bus No. H302 Diesel No.1
Particle Size Distribution (SUM)

Number Concentration, cm

Time in Route (mm:ss)

CTTransit Raw Data
ELPI Data Route: Avon Inbound
Bus No. H302 Diesel No.1
SUM stages 1-12 (TPN)

Number Concentration, cm

Time in Route (mm:ss)

CTTransit Raw Data
ELPI Data Route: Avon Inbound
Bus No. H302 Diesel No.1
Stage 1: 7-29 nm

Number Concentration, cm

Time in Route (mm:ss)

CTTransit Raw Data
ELPI Data Route: Avon Inbound
Bus No. H302 Diesel No.1
Stage 2: 29-56 nm
Stage 3: 56-95 nm

Number Concentration, cm

Time in Route (mm:ss)

CTTransit Raw Data
ELPI Data Route: Avon Inbound
Bus No. H302 Diesel No.1
Stage 4: 95-159 nm
Stage 5: 159-266 nm

Number Concentration, cm

Time in Route (mm:ss)

CTTransit Raw Data
ELPI Data Route: Avon Inbound
Bus No. H302 Diesel No.1
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm

Number Concentration, cm

Time in Route (mm:ss)
Avon Outbound – Diesel No.1 – H302

Particle Size Distribution (SUM)

Stage 1:
- 7-29 nm

Stage 2:
- 29-56 nm

Stage 3:
- 56-95 nm

Stage 4:
- 95-159 nm

Stage 5:
- 159-266 nm

Stage 6:
- 266-387 nm

Stage 7:
- 387-621 nm

Stage 8:
- 621-960 nm

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. H302 Diesel No.1
SUM stages 1-12 (TPN)
**Farmington Inbound – ULSD – 201**

CTTransit Raw Data  
ELPI Data  
Route: Farmington Inbound  
Bus No. 201  
ULSD

Particle Size Distribution (SUM)

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Stage 1: 7-29 nm

Stage 2:
- 29-56 nm

Stage 3:
- 56-95 nm

Stage 4:
- 95-159 nm

Stage 5:
- 159-266 nm

Stage 6:
- 266-387 nm

Stage 7:
- 387-621 nm

Stage 8:
- 621-960 nm

Number Concentration, cm$^{-3}$
**Farmington Outbound – ULSD – 201**

**CTTransit Raw Data**
ELPI Data | Route: Farmington Outbound
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Bus No. 201 | ULSD

**Particle Size Distribution (SUM)**

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**Farmington Outbound – ULSD – 202**

**NOTE y-axes limits are different for these plots.**
Farmington Outbound – ULSD – H301

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. H301 ULSD

Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. H301 ULSD
SUM stages 1-12 (TPN)

Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
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Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm

Number Concentration, cm

Time in Route (mm:ss)
Farmington Inbound – ULSD – H302

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Bus No. H302 ULSD

SUM stages 1-12 (TPN)

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Number Concentration, cm$^{-3}$

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Stage 2: 29-56 nm

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Stage 3: 56-95 nm

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Stage 4: 95-159 nm

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Stage 5: 159-266 nm

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Stage 6: 266-387 nm

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Stage 7: 387-621 nm

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Stage 8: 621-960 nm

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Farmington Outbound – ULSD – H302

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. H302 ULSD
Particle Size Distribution (SUM)

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<th>Number Concentration, cm$^{-3}$</th>
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Stage 1: 7-29 nm

Stage 2: 29-56 nm

Stage 3: 56-95 nm

Stage 4: 95-159 nm

Stage 5: 159-266 nm

Stage 6: 266-387 nm

Stage 7: 387-621 nm

Stage 8: 621-960 nm
Enfield Inbound – ULSD – 201

CTTransit Raw Data
ELPI Data  Route: Enfield Inbound
Bus No. 201  ULSD
Particle Size Distribution (SUM)

Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm

Time in Route (mm:ss)
Number Concentration, cm⁻³

Aug 6  Aug 10

Aug 6  Aug 10
Enfield Outbound – ULSD – 201

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 201 ULSD
Particle Size Distribution (SUM)

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Stage 1: 7-29 nm

Stage 2: 29-56 nm

Stage 3: 56-95 nm

Stage 4: 95-159 nm

Stage 5: 159-266 nm

Stage 6: 266-387 nm

Stage 7: 387-621 nm

Stage 8: 621-960 nm
** Enfield Inbound – ULSD – 202

**NOTE y-axes limits are different for these plots.
Enfield Outbound – ULSD – 202

CTTransit Raw Data
ELPI Data  Route: Enfield Outbound
Bus No. 202  ULSD
Particle Size Distribution (SUM)

Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm
Enfield Inbound – ULSD – H301
Enfield Outbound – ULSD – H301

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. H301 ULSD
Particle Size Distribution (SUM)

Aug 3
Aug 4

dN/dlogDp

log Dp

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. H301 ULSD
SUM stages 1-12 (TPN)

Aug 3
Aug 4

Number Concentration, cm⁻³

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. H301 ULSD
Stage 1: 7-29 nm

Aug 3
Aug 4

Number Concentration, cm⁻³

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. H301 ULSD
Stage 2: 29-56 nm

Aug 3
Aug 4

Number Concentration, cm⁻³

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. H301 ULSD
Stage 3: 56-95 nm

Aug 3
Aug 4

Number Concentration, cm⁻³

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. H301 ULSD
Stage 4: 95-159 nm

Aug 3
Aug 4

Number Concentration, cm⁻³

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. H301 ULSD
Stage 5: 159-266 nm

Aug 3
Aug 4

Number Concentration, cm⁻³

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. H301 ULSD
Stage 6: 266-387 nm

Aug 3
Aug 4

Number Concentration, cm⁻³

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. H301 ULSD
Stage 7: 387-621 nm

Aug 3
Aug 4

Number Concentration, cm⁻³

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. H301 ULSD
Stage 8: 621-960 nm

Aug 3
Aug 4
Enfield Outbound – ULSD – H302

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. H302 ULSD
Particle Size Distribution (SUM)

\[ \frac{dN}{d\log D_p} \]

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Stage 1: 7-29 nm

Stage 2: 29-56 nm

Stage 3: 56-95 nm

Stage 4: 95-159 nm

Stage 5: 159-266 nm

Stage 6: 266-387 nm

Stage 7: 387-621 nm

Stage 8: 621-960 nm
Avon Inbound – ULSD – 201

Particle Size Distribution (SUM)

- Stage 1: 7-29 nm
- Stage 2: 29-56 nm
- Stage 3: 56-95 nm
- Stage 4: 95-159 nm
- Stage 5: 159-266 nm
- Stage 6: 266-387 nm
- Stage 7: 387-621 nm
- Stage 8: 621-960 nm

Number Concentration, cm$^{-3}$

Time in Route (mm:ss)
Avon Outbound – ULSD – 201
Avon Inbound – ULSD – 202
**Avon Outbound – ULSD – 202**

**NOTE y-axes limits are different for these plots.**
Avon Inbound – ULSD – H301

CTTransit Raw Data
ELPI Data
Route: Avon Inbound
Bus No. H301 ULSD
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data
Route: Avon Inbound
Bus No. H301 ULSD
SUM stages 1-12 (TPN)

Stage 1: 7-29 nm

Stage 2: 29-56 nm

Stage 3: 56-95 nm

Stage 4: 95-159 nm

Stage 5: 159-266 nm

Stage 6: 266-387 nm

Stage 7: 387-621 nm

Stage 8: 621-960 nm

Number Concentration, cm$^{-3}$

Time in Route (mm:ss)
Avon Outbound – ULSD – H301

CTTransit Raw Data
ELPI Data
Route: Avon Outbound
Bus No. H301 ULSD
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data
Route: Avon Outbound
Bus No. H301 ULSD
SUM stages 1-12 (TPN)

CTTransit Raw Data
ELPI Data
Route: Avon Outbound
Bus No. H301 ULSD
Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm
Avon Inbound – ULSD – H302

CTTransit Raw Data
ELPI Data Route: Avon Inbound
Bus No. H302 ULSD
Particle Size Distribution (SUM)

Number Concentration, cm$^{-3}$

Time in Route (mm:ss)

Aug 25  Aug 26

Stage 1: 7-29 nm

Stage 2: 29-56 nm

Stage 3: 56-95 nm

Stage 4: 95-159 nm

Stage 5: 159-266 nm

Stage 6: 266-387 nm

Stage 7: 387-621 nm

Stage 8: 621-960 nm
Avon Outbound – ULSD – H302

Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. H302 ULSD
SUM stages 1-12 (TPN)

Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm
**Farmington Inbound – DPF – 201**

**Note:** y-axes limits are different for these plots.
**Farmington Outbound – DPF – 201**

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 201 DPF
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 201 DPF
SUM stages 1-12 (TPN)

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 201 DPF
Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm

**NOTE y-axes limits are different for these plots.**
**Farmington Inbound – DPF – 202**

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. 202 DPF
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. 202 DPF
SUM stages 1-12 (TPN)

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. 202 DPF
Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm
Farmington Outbound – DPF – 202

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 DPF
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 DPF
SUM stages 1-12 (TPN)

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 DPF
Stage 1: 7-29 nm

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 DPF
Stage 2: 29-56 nm

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 DPF
Stage 3: 56-95 nm

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 DPF
Stage 4: 95-159 nm

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 DPF
Stage 5: 159-266 nm

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 DPF
Stage 6: 266-387 nm

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 DPF
Stage 7: 387-621 nm

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. 202 DPF
Stage 8: 621-960 nm
Farmington Inbound – DPF – H301

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 DPF
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 DPF
SUM stages 1-12 (TPN)

Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 DPF
Stage: 7-29 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 DPF
Stage: 29-56 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 DPF
Stage: 56-95 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 DPF
Stage: 95-159 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 DPF
Stage: 159-266 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 DPF
Stage: 266-387 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 DPF
Stage: 387-621 nm

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H301 DPF
Stage: 621-960 nm
**Farmington Outbound – DPF – H301**

---

**NOTE** y-axes limits are different for these plots.
Farmington Inbound – DPF – H302

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H302 DPF
Particle Size Distribution (SUM)

dN/dlogDp

log Dp

CTTransit Raw Data
ELPI Data Route: Farmington Inbound
Bus No. H302 DPF
SUM stages 1-12 (TPN)

Number Concentration, cm$^{-3}$

Time in Route (mm:ss)

Stage 1: 7-29 nm

Stage 2: 29-56 nm

Stage 3: 56-95 nm

Stage 4: 95-159 nm

Stage 5: 159-266 nm

Stage 6: 266-387 nm

Stage 7: 387-621 nm

Stage 8: 621-960 nm
CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. H302 DPF
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Farmington Outbound
Bus No. H302 DPF
SUM stages 1-12 (TPN)

Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm
Enfield Inbound – DPF – 201

CTTransit Raw Data
ELPI Data Route: Enfield Inbound
Bus No. 201 DPF
Particle Size Distribution (SUM)

Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm
**Enfield Outbound – DPF – 201**

**NOTE y-axes limits are different for these plots.**
Enfield Inbound – DPF – 202

CTTransit Raw Data
ELPI Data Route: Enfield Inbound
Bus No. 202 DPF
Particle Size Distribution (SUM)

Stage 1: 7-29 nm

Stage 2: 29-56 nm

Stage 3: 56-95 nm

Stage 4: 95-159 nm

Stage 5: 159-266 nm

Stage 6: 266-387 nm

Stage 7: 387-621 nm

Stage 8: 621-960 nm

CTTransit Raw Data
ELPI Data Route: Enfield Inbound
Bus No. 202 DPF
SUM stages 1-12 (TPN)
Enfield Outbound – DPF – 202

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 202 DPF
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Enfield Outbound
Bus No. 202 DPF
SUM stages 1-12 (TPN)

Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm

Number Concentration, cm$^{-3}$

Time in Route (mm:ss)
**Enfield Inbound – DPF – H301**

**CTTransit Raw Data**
ELPI Data Route: Enfield Inbound
Bus No. H301 DPF
Particle Size Distribution (SUM)

**CTTransit Raw Data**
ELPI Data Route: Enfield Inbound
Bus No. H301 DPF
SUM stages 1-12 (TPN)

**CTTransit Raw Data**
ELPI Data Route: Enfield Inbound
Bus No. H301 DPF
Stage 1: 7-29 nm

**CTTransit Raw Data**
ELPI Data Route: Enfield Inbound
Bus No. H301 DPF
Stage 2: 29-56 nm
Stage 3: 56-95 nm

**CTTransit Raw Data**
ELPI Data Route: Enfield Inbound
Bus No. H301 DPF
Stage 4: 95-159 nm
Stage 5: 159-266 nm

**CTTransit Raw Data**
ELPI Data Route: Enfield Inbound
Bus No. H301 DPF
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm

**NOTE** y-axes limits are different for these plots.
**Enfield Outbound – DPF – H301**

**NOTE y-axes limits are different for these plots.**
Enfield Inbound – DPF – H302

**NOTE y-axes limits are different for these plots.**
**Enfield Outbound – DPF – H302**

**NOTE y-axes limits are different for these plots.**
**Avon Inbound –DPF – 201**

**NOTE y-axes limits are different for these plots.**
Avon Outbound – DPF – 201

CTTransit Raw Data
ELPI Data  Route: Avon Outbound
Bus No. 201  DPF
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data  Route: Avon Outbound
Bus No. 201  DPF
SUM stages 1-12 (TPN)

CTTransit Raw Data
ELPI Data  Route: Avon Outbound
Bus No. 201  DPF
Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm
Avon Inbound – DPF – 202

CTTransit Raw Data
ELPI Data Route: Avon Inbound
Bus No. 202 DPF
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Avon Inbound
Bus No. 202 DPF
SUM stages 1-12 (TPN)

Stage 1: 7-29 nm
Stage 2: 29-56 nm
Stage 3: 56-95 nm
Stage 4: 95-159 nm
Stage 5: 159-266 nm
Stage 6: 266-387 nm
Stage 7: 387-621 nm
Stage 8: 621-960 nm
Avon Outbound – DPF – 202

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. 202 DPF
Particle Size Distribution (SUM)

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. 202 DPF
SUM stages 1-12 (TPN)

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. 202 DPF
Stage 1: 7-29 nm

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. 202 DPF
Stage 2: 29-56 nm

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. 202 DPF
Stage 3: 56-95 nm

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. 202 DPF
Stage 4: 95-159 nm

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. 202 DPF
Stage 5: 159-266 nm

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. 202 DPF
Stage 6: 266-387 nm

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. 202 DPF
Stage 7: 387-621 nm

CTTransit Raw Data
ELPI Data Route: Avon Outbound
Bus No. 202 DPF
Stage 8: 621-960 nm
**Avon Inbound – DPF – H301**

**NOTE y-axes limits are different for these plots.**
**Avon Outbound – DPF – H301**

**NOTE y-axes limits are different for these plots.**
**Avon Inbound – DPF – H302**

**NOTE** y-axes limits are different for these plots.
**Avon Outbound – DPF – H302**

**NOTE y-axes limits are different for these plots.**
HEPA – Pre Run

CTTransit Project Raw Data
ELPI Data
Pre Run HEPA Data
Stage: 29-56nm

CTTransit Project Raw Data
ELPI Data
Pre Run HEPA Data
Stage: 29-56nm

CTTransit Project Raw Data
ELPI Data
Pre Run HEPA Data
Stage: 56-95nm

CTTransit Project Raw Data
ELPI Data
Pre Run HEPA Data
Stage: 95-159nm

CTTransit Project Raw Data
ELPI Data
Pre Run HEPA Data
Stage: 159-266nm

SUM stages 1-12 (TPN)
HEPA – Post Run

Days

CTTransit Project Raw Data
ELPI Data
Post Run HEPA Data
Stage 1: 7-29nm

Number Concentration, cm^-3

0.0 5.0x10^2 1.0x10^3 1.5x10^3

Days

CTTransit Project Raw Data
ELPI Data
Post Run HEPA Data
Stage 2: 29-56nm

Number Concentration, cm^-3

0.0 1.0x10^2 2.0x10^2 3.0x10^2

Days

CTTransit Project Raw Data
ELPI Data
Post Run HEPA Data
Stage 3: 56-95nm

Number Concentration, cm^-3

0.0 1.0x10^1 2.0x10^1 3.0x10^1

Days

CTTransit Project Raw Data
ELPI Data
Post Run HEPA Data
Stage 4: 95-159nm

Number Concentration, cm^-3

0.0 2.0x10^1 3.0x10^1 4.0x10^1

Days

CTTransit Project Raw Data
ELPI Data
Post Run Tunnel Blank Data
Stage 5: 159-266nm

Number Concentration, cm^-3

0.0 3.0x10^1 4.0x10^1 5.0x10^1

Days

CTTransit Project Raw Data
ELPI Data
Post Run HEPA Data
SUM stages 1-12(TPM)

Number Concentration, cm^-3

0.0 1.0x10^1 2.0x10^1 3.0x10^1

Days
Tunnel Blank – Pre Run

CTTransit Project Raw Data
ELPI Data
Pre Run Tunnel Blank Data
Stage 1: 7-20nm

CTTransit Project Raw Data
ELPI Data
Pre Run Tunnel Blank Data
Stage 2: 29-56nm

CTTransit Project Raw Data
ELPI Data
Pre Run Tunnel Blank Data
Stage 3: 56-95nm

CTTransit Project Raw Data
ELPI Data
Pre Run Tunnel Blank Data
Stage 4: 95-159nm

CTTransit Project Raw Data
ELPI Data
Pre Run Tunnel Blank Data
Stage 5: 159-266nm

SUM stages 1-12 (TPN)
Tunnel Blank – Marshall’s
Tunnel Blank – Post Run

CTTransit Project Raw Data
ELPI Data
Post Run Tunnel Blank Data

Stage 1: 7-29nm

Stage 2: 29-56nm

Stage 3: 56-95nm

Stage 4: 95-159nm

Stage 5: 159-266 nm

Number Concentration, cm$^{-3}$

CTTransit Project Raw Data
ELPI Data
Post Run Tunnel Blank Data

Stage 1: 7-29nm

Stage 2: 29-56nm

Stage 3: 56-95nm

Stage 4: 95-159nm

Stage 5: 159-266 nm

Number Concentration, cm$^{-3}$

CTTransit Project Raw Data
ELPI Data
Post Run Tunnel Blank Data

Stage 1: 7-29nm

Stage 2: 29-56nm

Stage 3: 56-95nm

Stage 4: 95-159nm

Stage 5: 159-266 nm

Number Concentration, cm$^{-3}$

CTTransit Project Raw Data
ELPI Data
Post Run Tunnel Blank Data

Stage 1: 7-29nm

Stage 2: 29-56nm

Stage 3: 56-95nm

Stage 4: 95-159nm

Stage 5: 159-266 nm

Number Concentration, cm$^{-3}$