

**CITY OF LANCASTER, OHIO
UPPER HOCKING RIVER
WATER QUALITY MONITORING AND QUAL2K MODELING**

**Appendix L
Model Calibration/Validation Data**

1. Figure L.1a – Dry Weather Calibration Event 1 – Travel Time
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3. Figure L.1c – Dry Weather Calibration Event 1 – Velocity
4. Figure L.1d – Dry Weather Calibration Event 1 – Depth
5. Figure L.1e – Dry Weather Calibration Event 1 – Temperature
6. Figure L.1f – Dry Weather Calibration Event 1 – CBOD_u and CBOD₂₀
7. Figure L.1g-1 – Dry Weather Calibration Event 1 – Dissolved Oxygen
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WATER QUALITY MONITORING AND QUAL2K MODELING**

**Appendix L
Model Calibration/Verification Data
(Continued)**

31. Figure L.3a – Dry Weather Validation Event 3 – Travel Time
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45. Figure L.3o – Dry Weather Validation Event 3 – Benthic Algae

Figure L.1a
Dry Weather Calibration Event 1
Travel Time

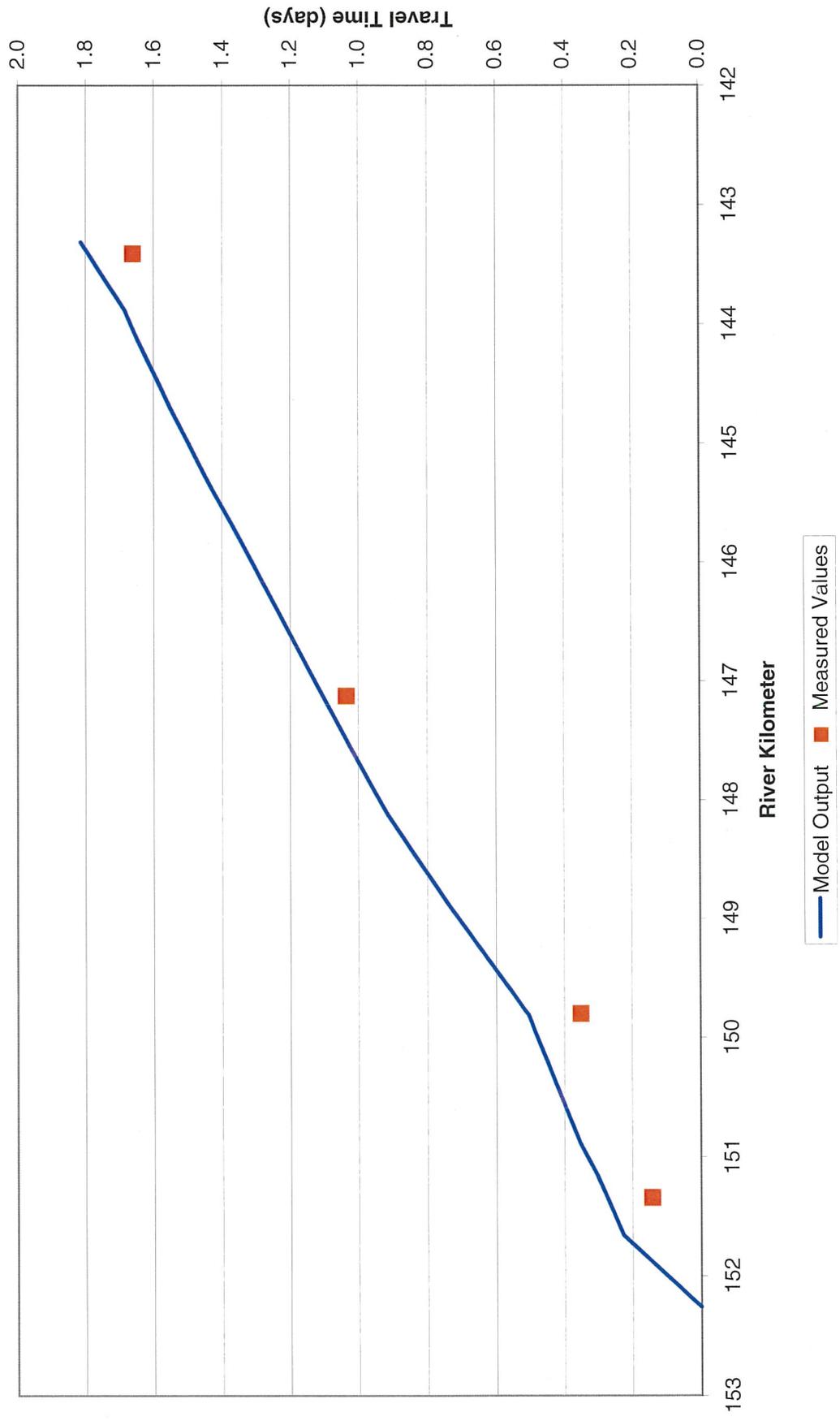


Figure L.1b
Dry Weather Calibration Event 1
Flow

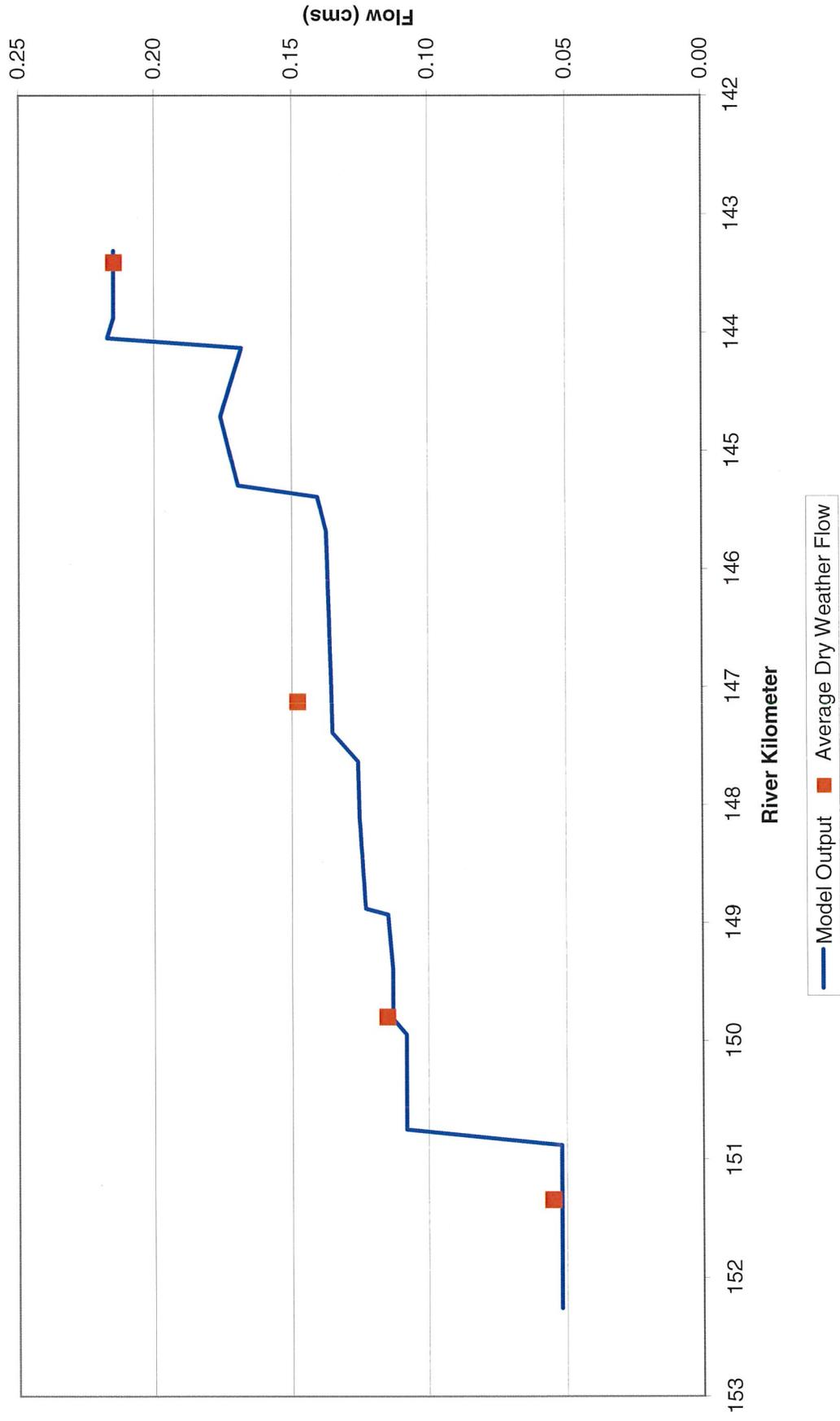


Figure L.1c
Dry Weather Calibration Event 1
Velocity

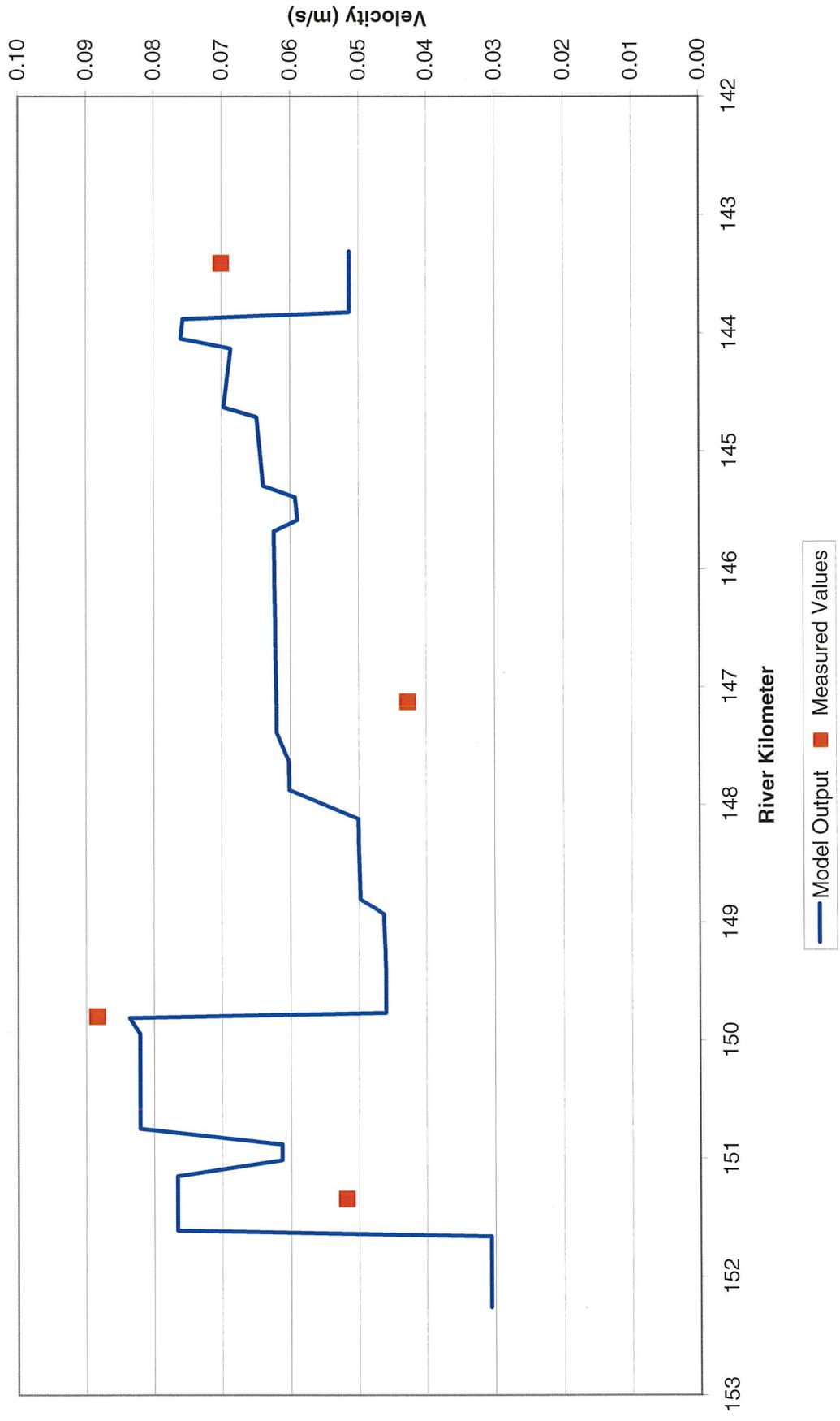


Figure L.1d
Dry Weather Calibration Event 1
Depth

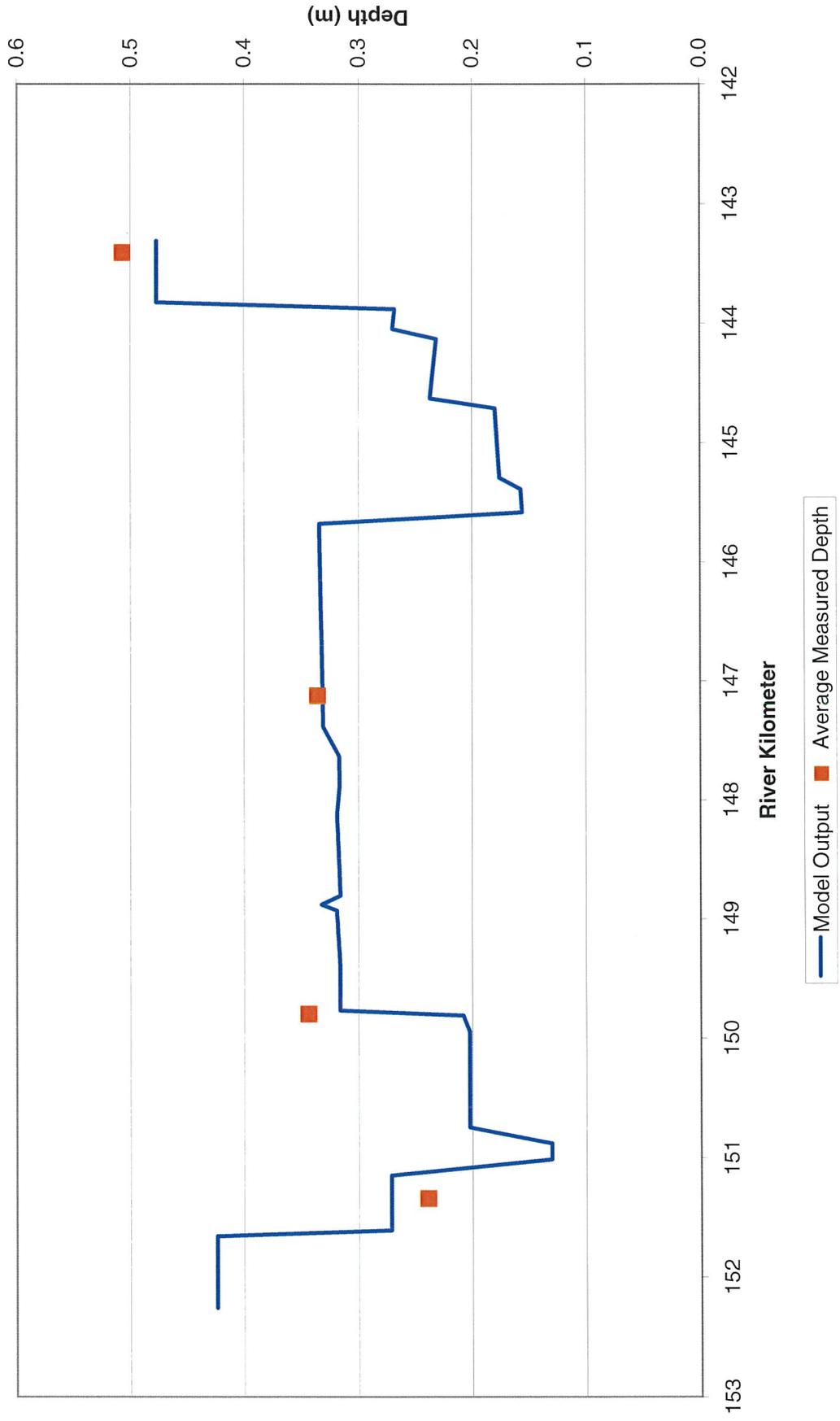


Figure L.1e
 Dry Weather Calibration Event 1
 Temperature

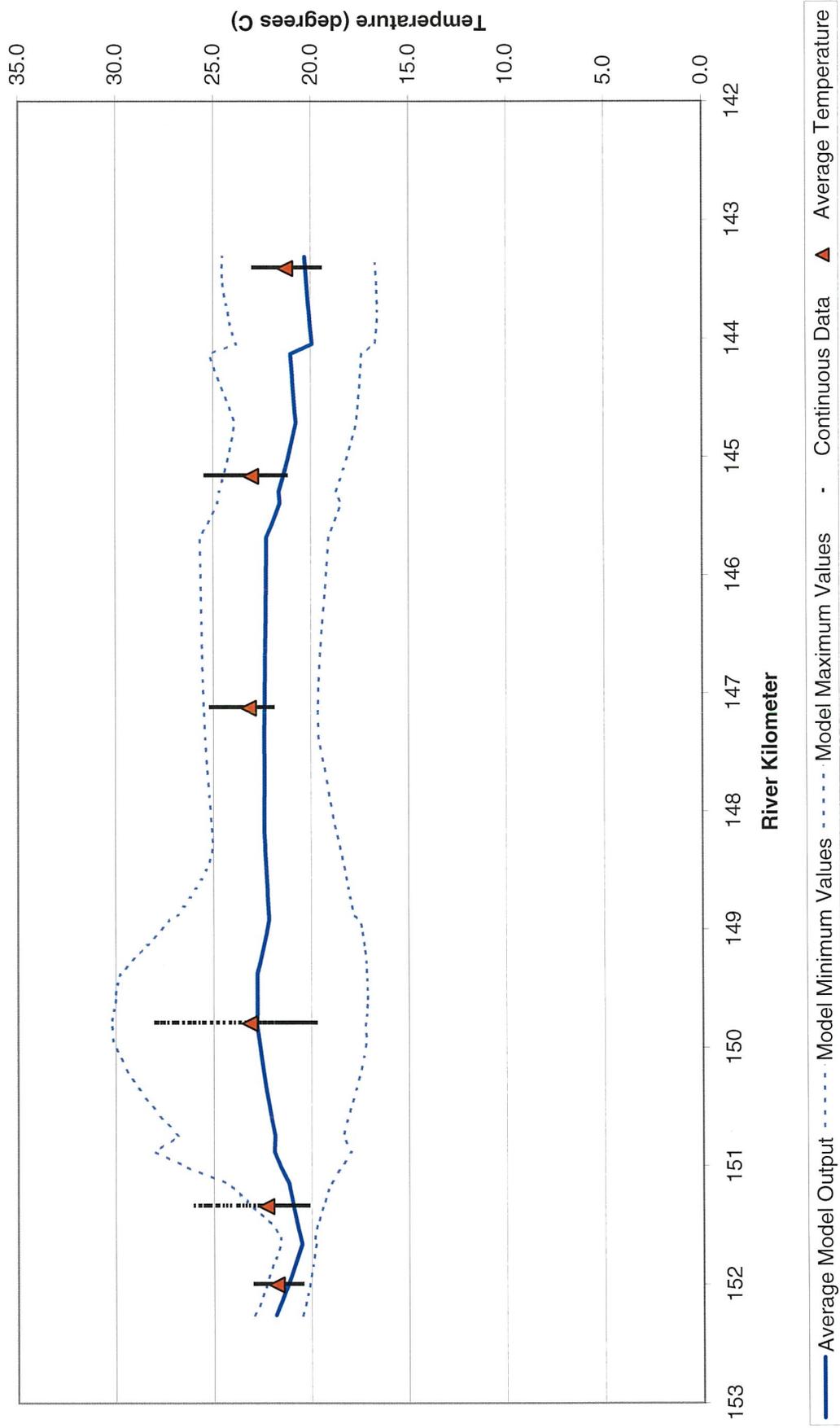


Figure L.1f
Dry Weather Calibration Event 1
CBOD_u and CBOD₂₀

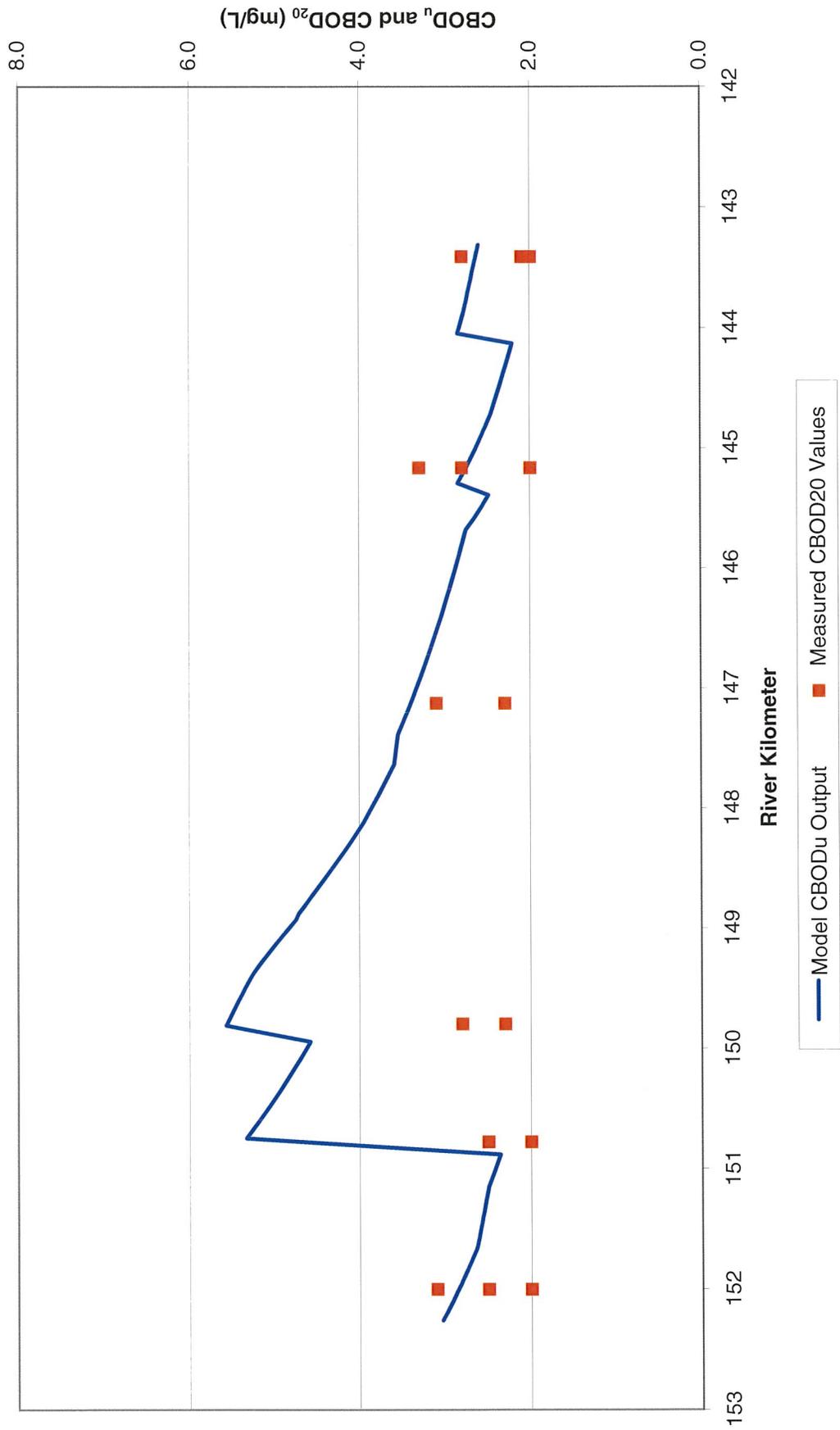


Figure L.1g - 1
 Dry Weather Calibration Event 1
 Dissolved Oxygen

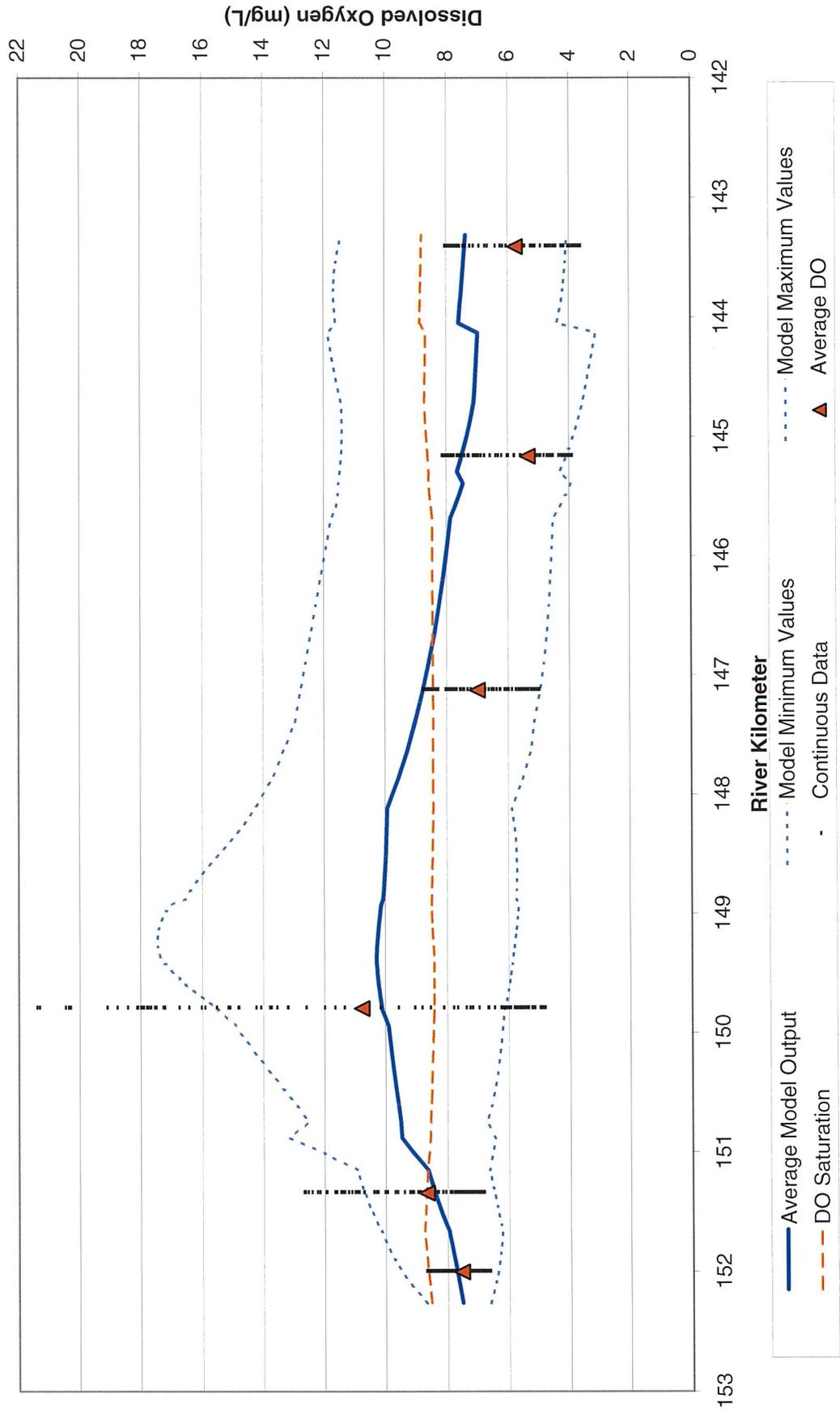


Figure L.1h
Dry Weather Calibration Event 1
Organic Nitrogen

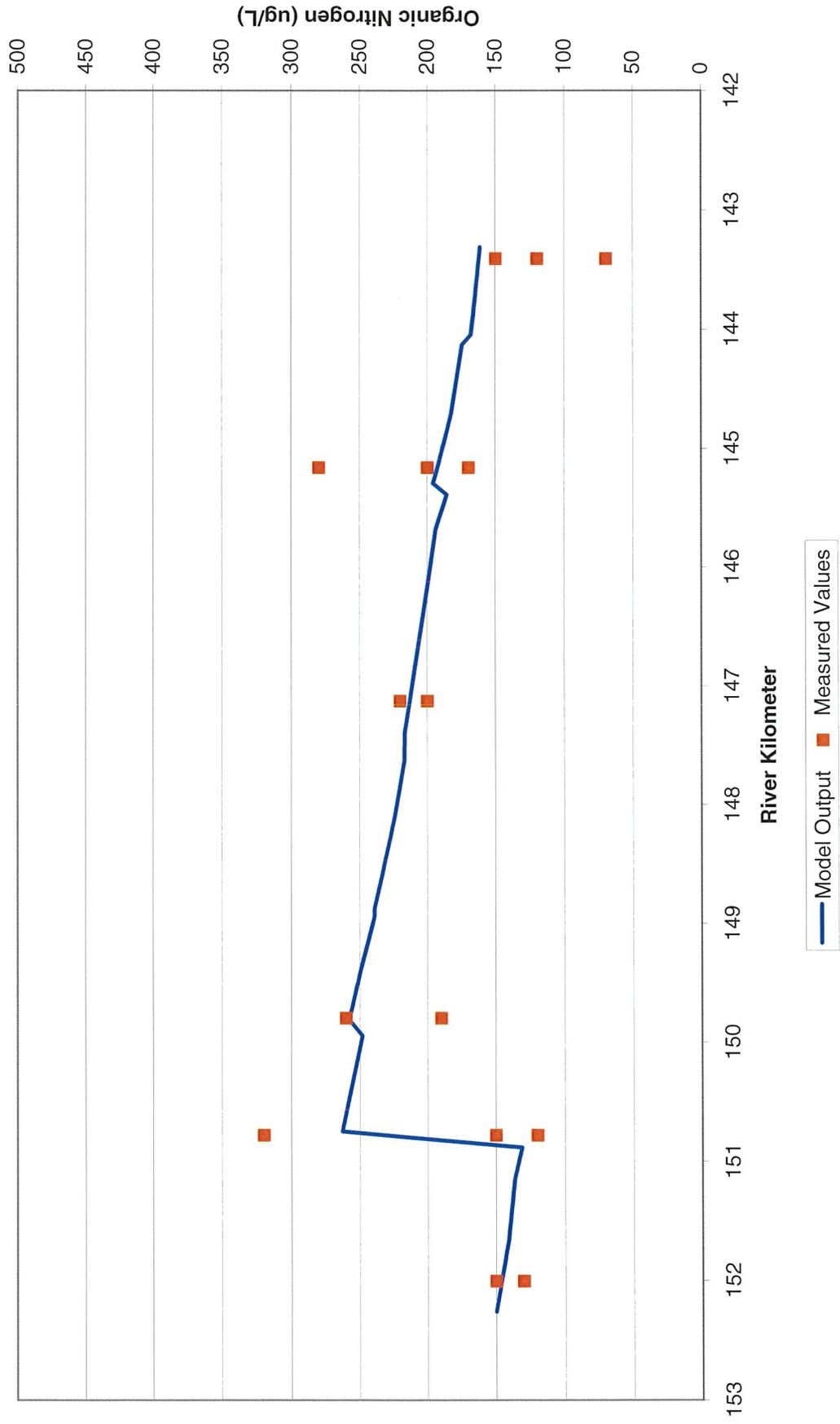


Figure L.1i
Dry Weather Calibration Event 1
Nitrate

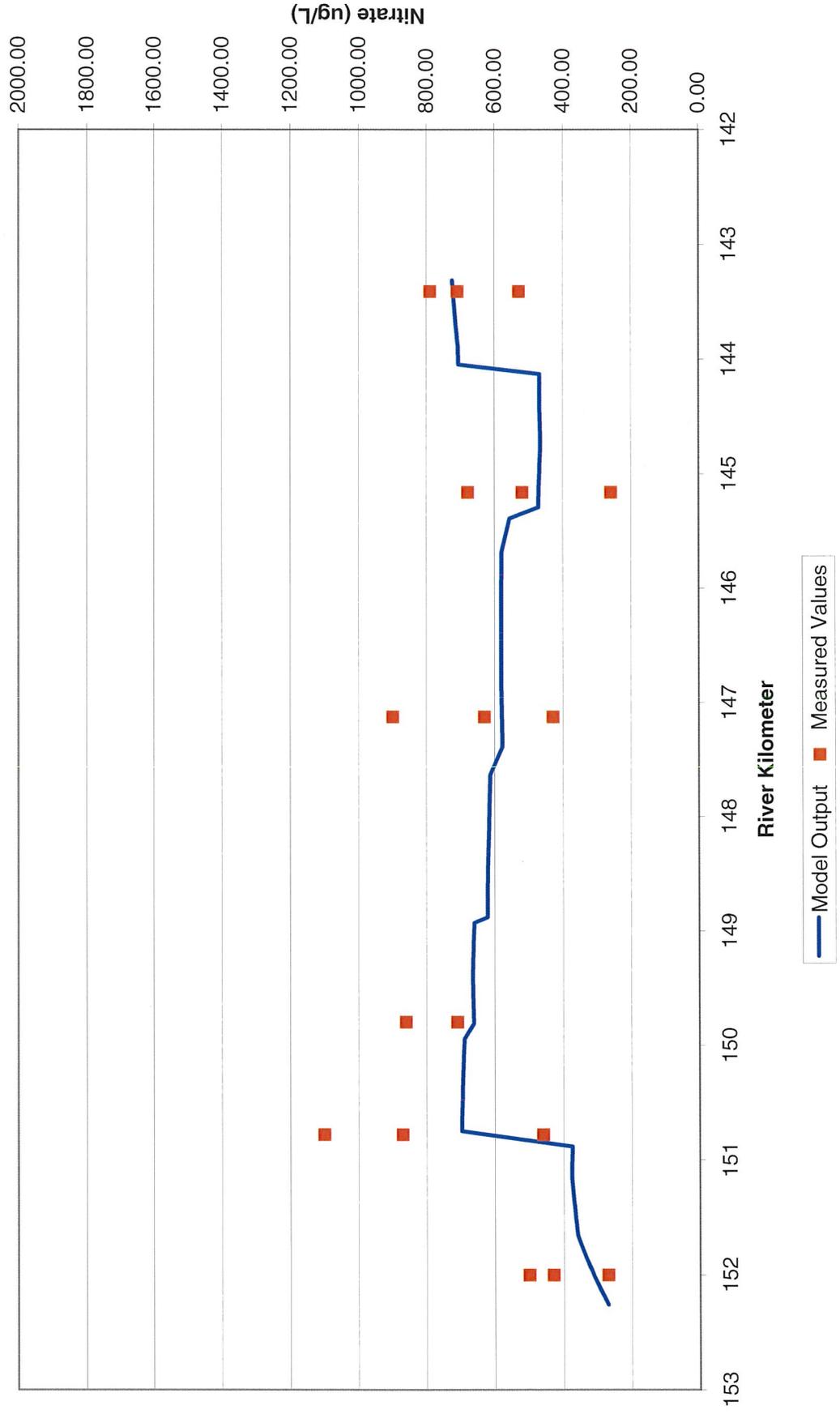


Figure L.1j
Dry Weather Calibration Event 1
Ammonia

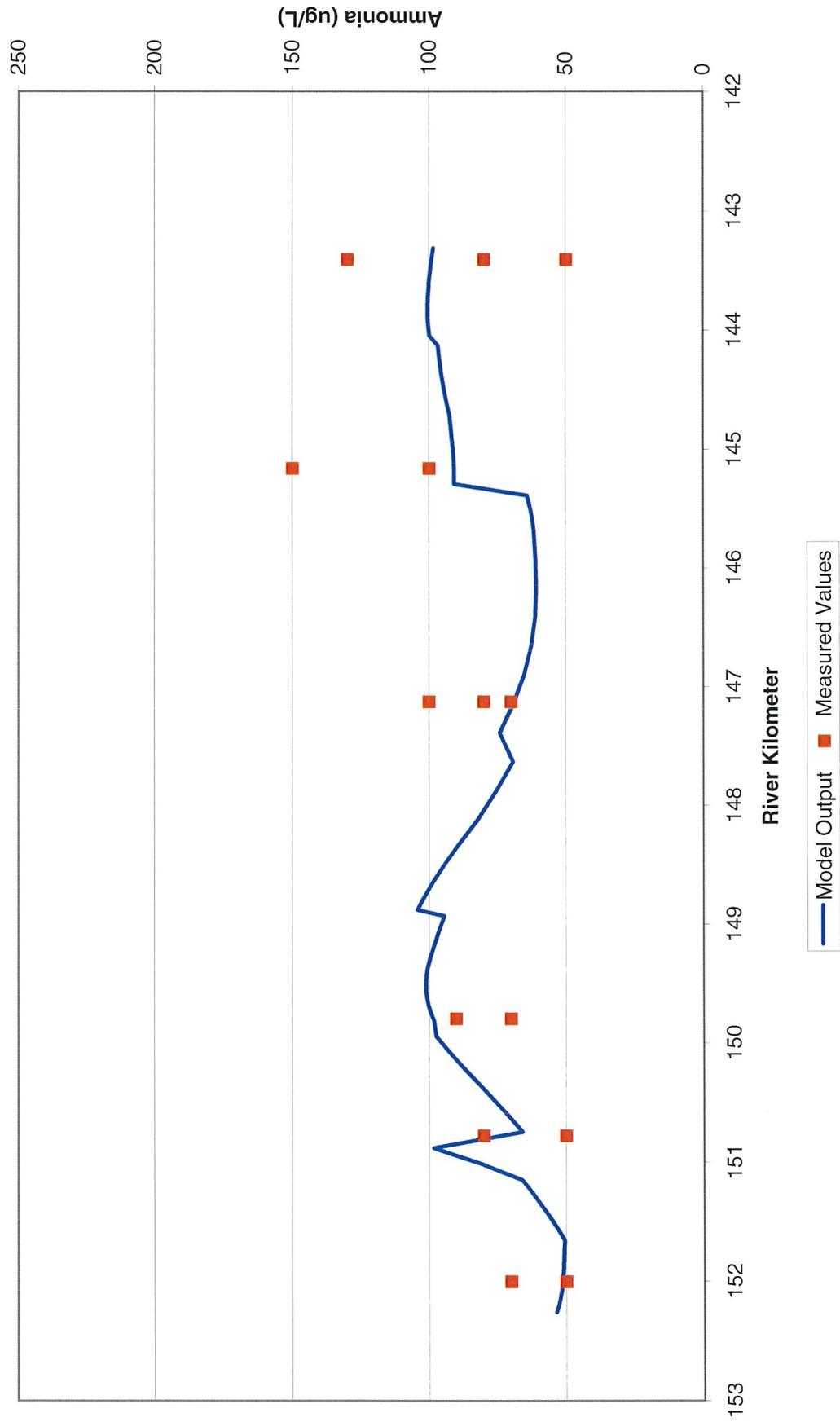


Figure L.1k
Dry Weather Calibration Event 1
Organic Phosphorus

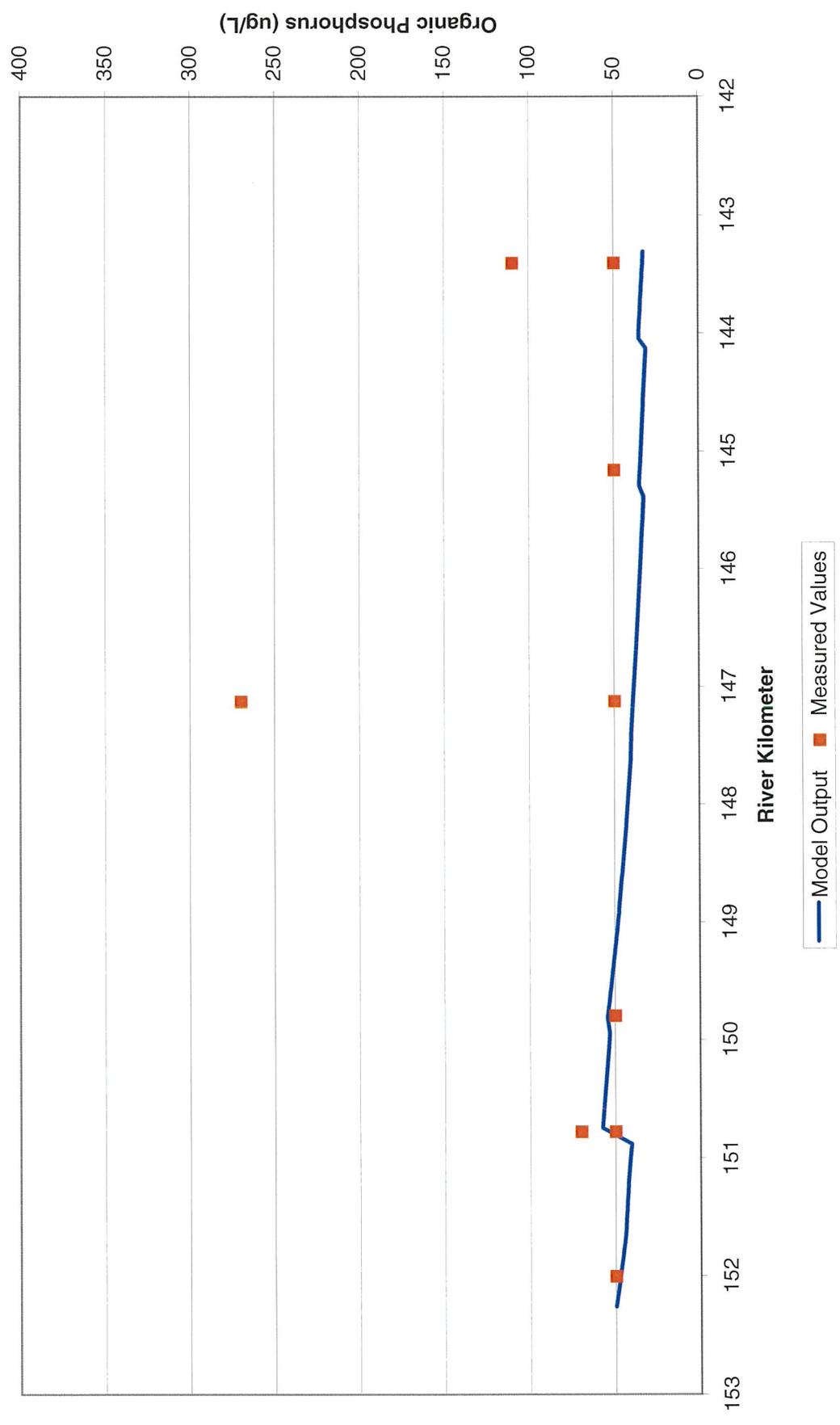


Figure L.11
Dry Weather Calibration Event 1
Inorganic Phosphorus

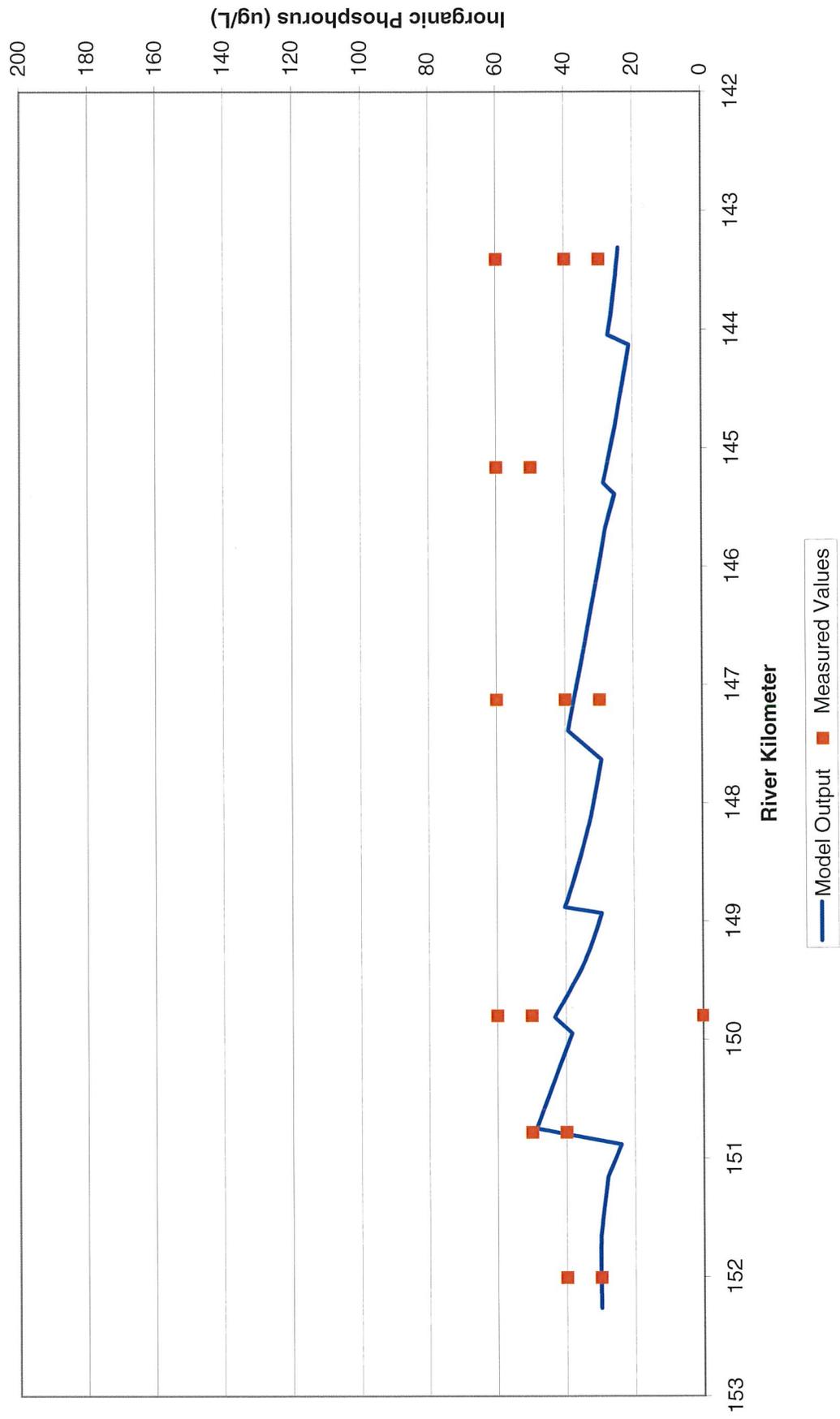


Figure L.1m
Dry Weather Calibration Event 1
Total Phosphorus

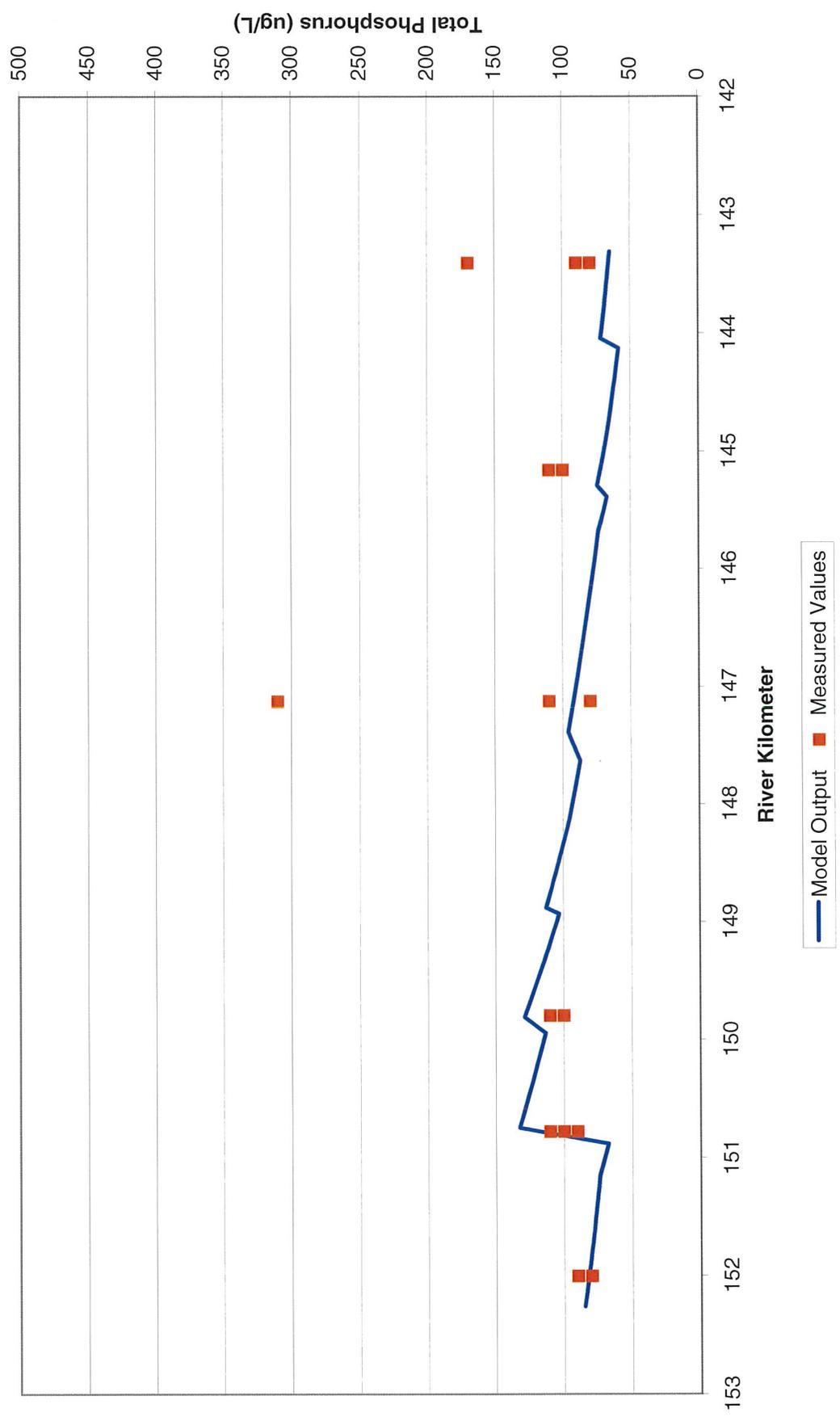


Figure L.1n
Dry Weather Calibration Event 1
Suspended Algae

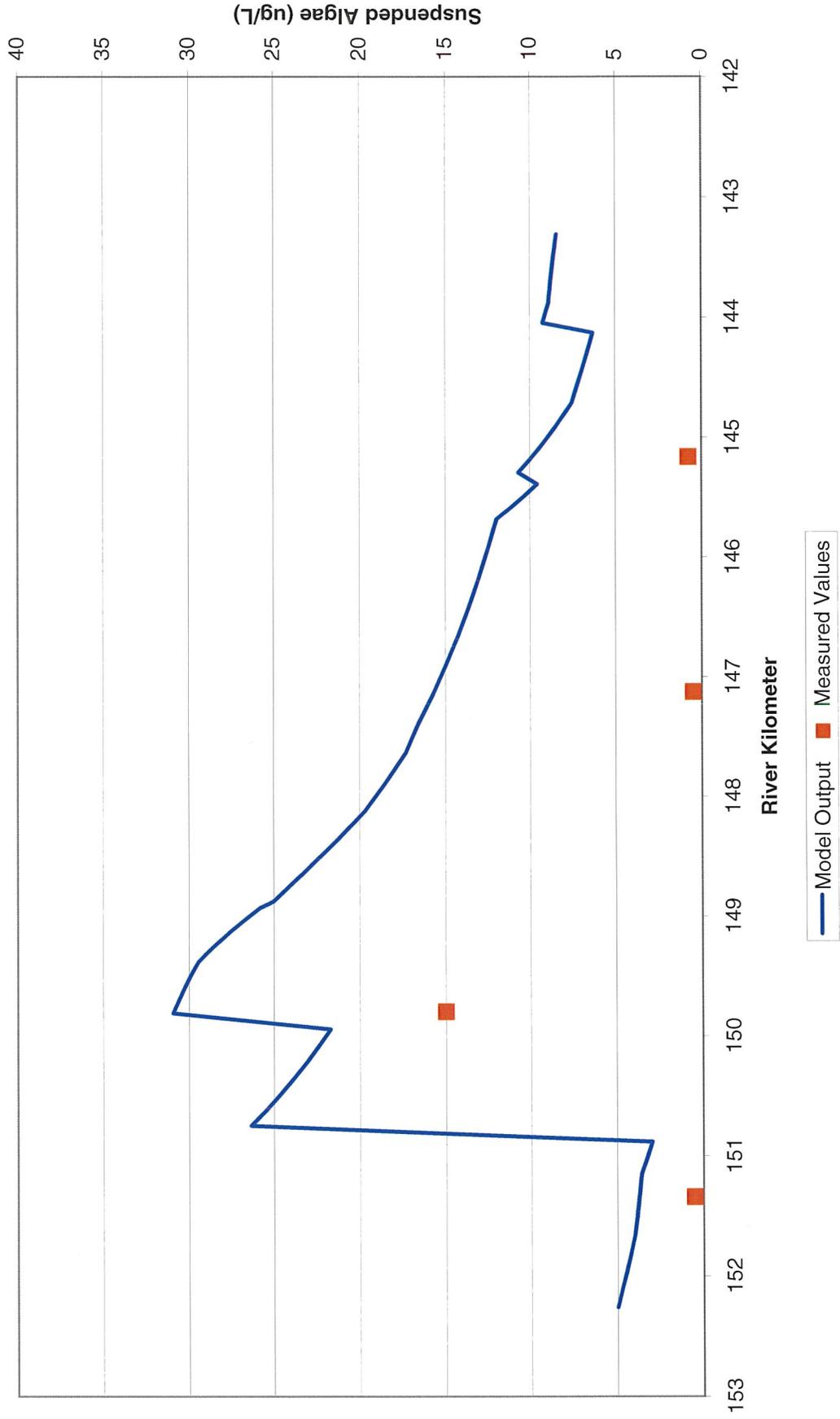


Figure L.1o
Dry Weather Calibration Event 1
Benthic Algae

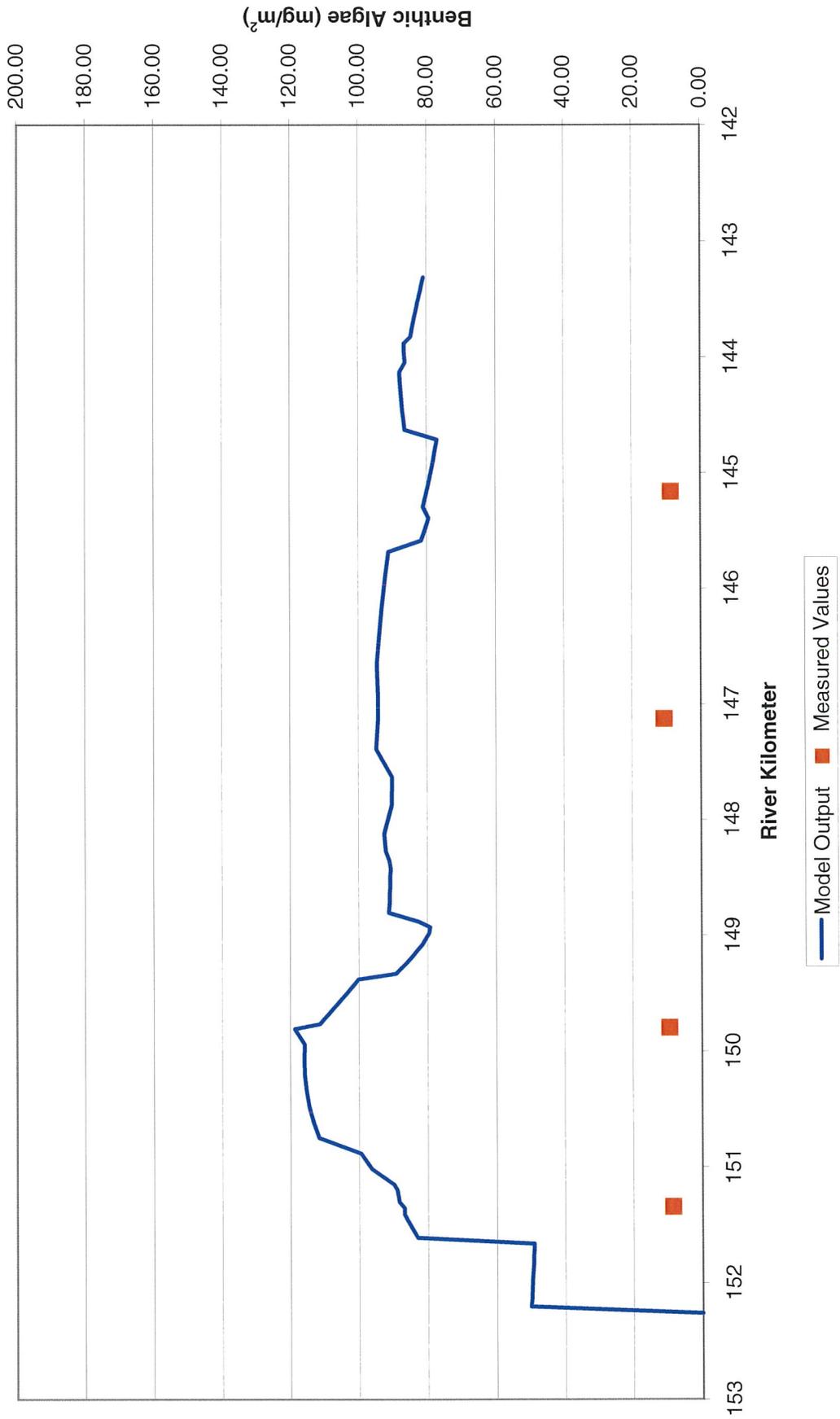


Figure L.2a
Dry Weather Calibration Event 2
Travel Time

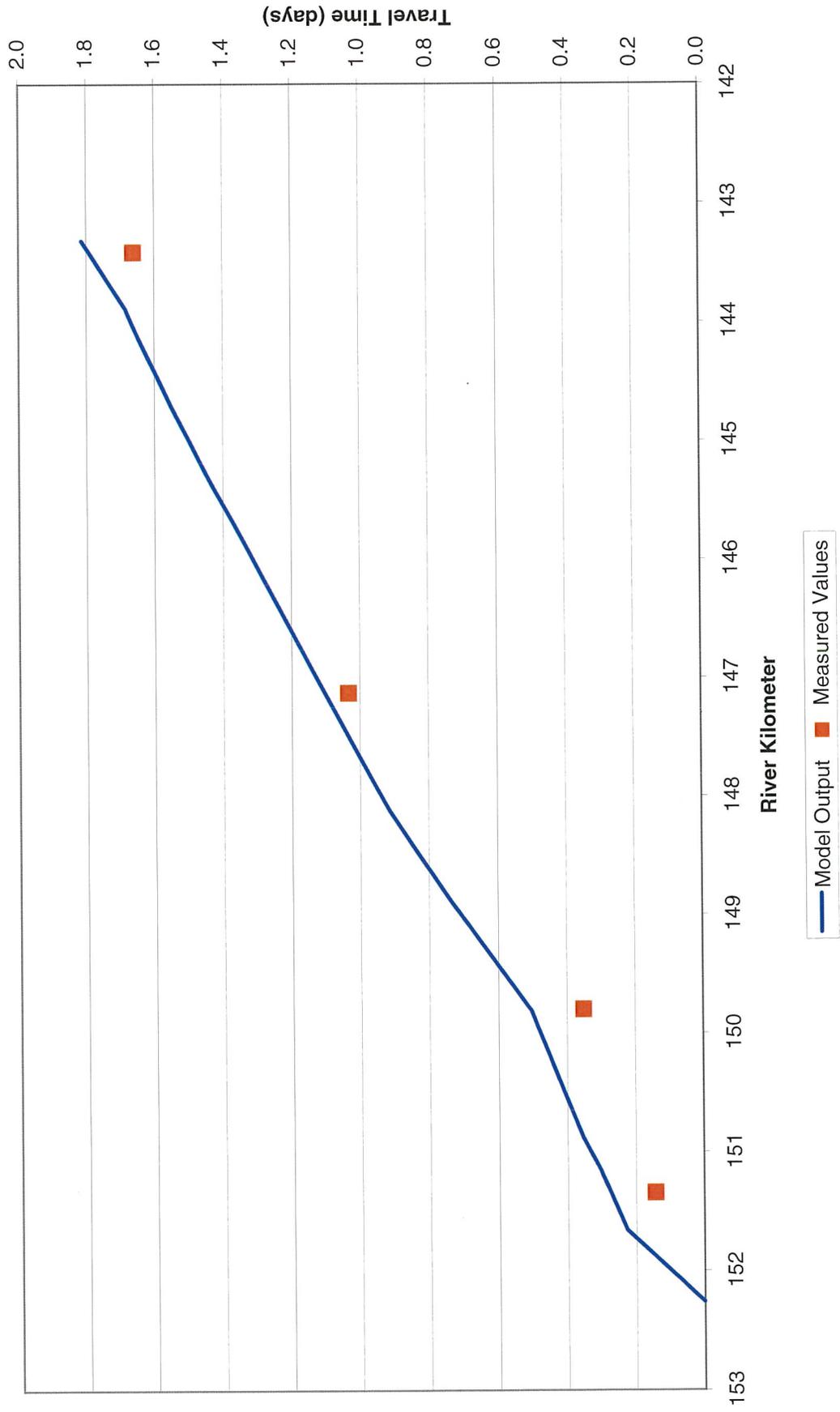


Figure L.2b
Dry Weather Calibration Event 2
Flow

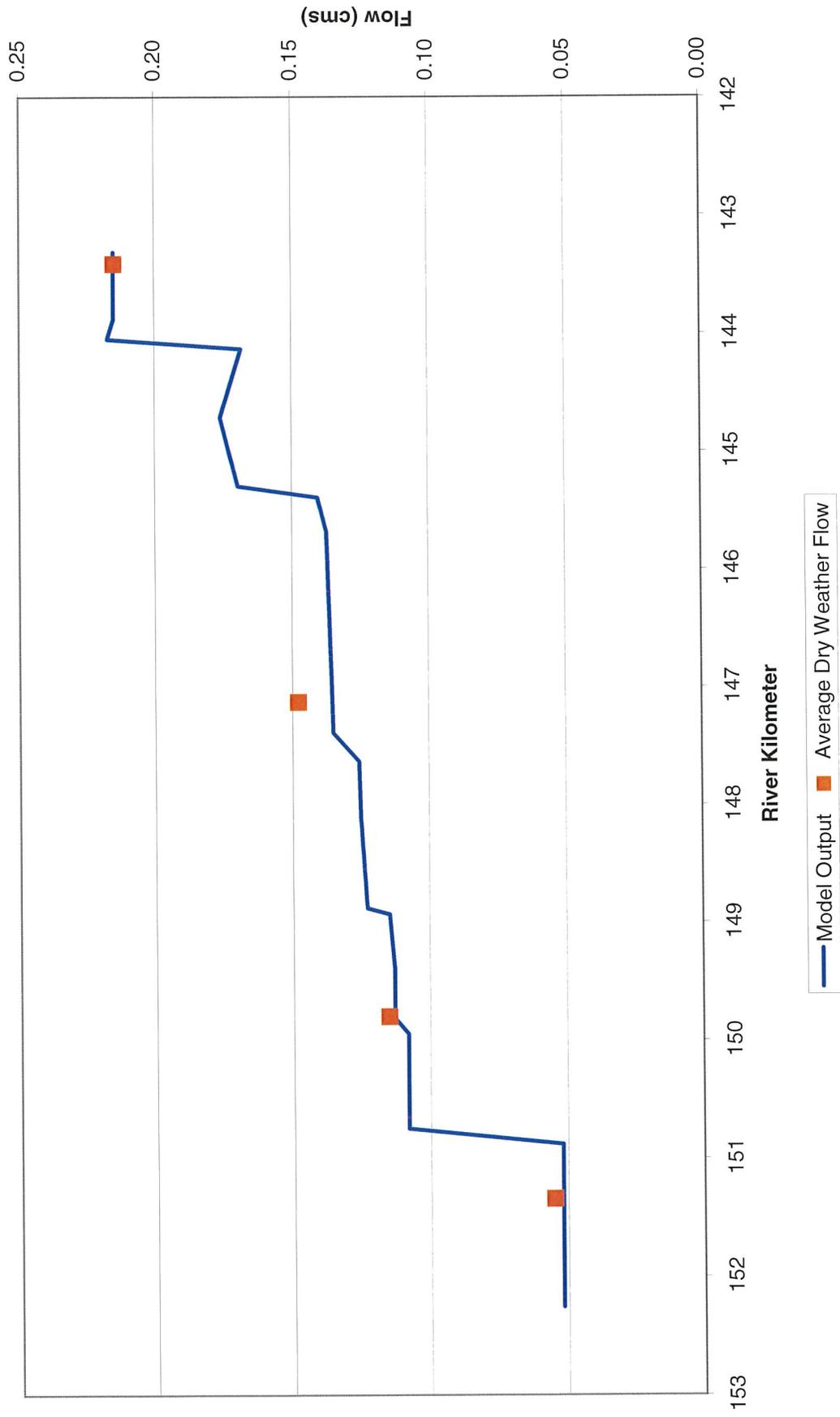


Figure L.2c
Dry Weather Calibration Event 2
Velocity

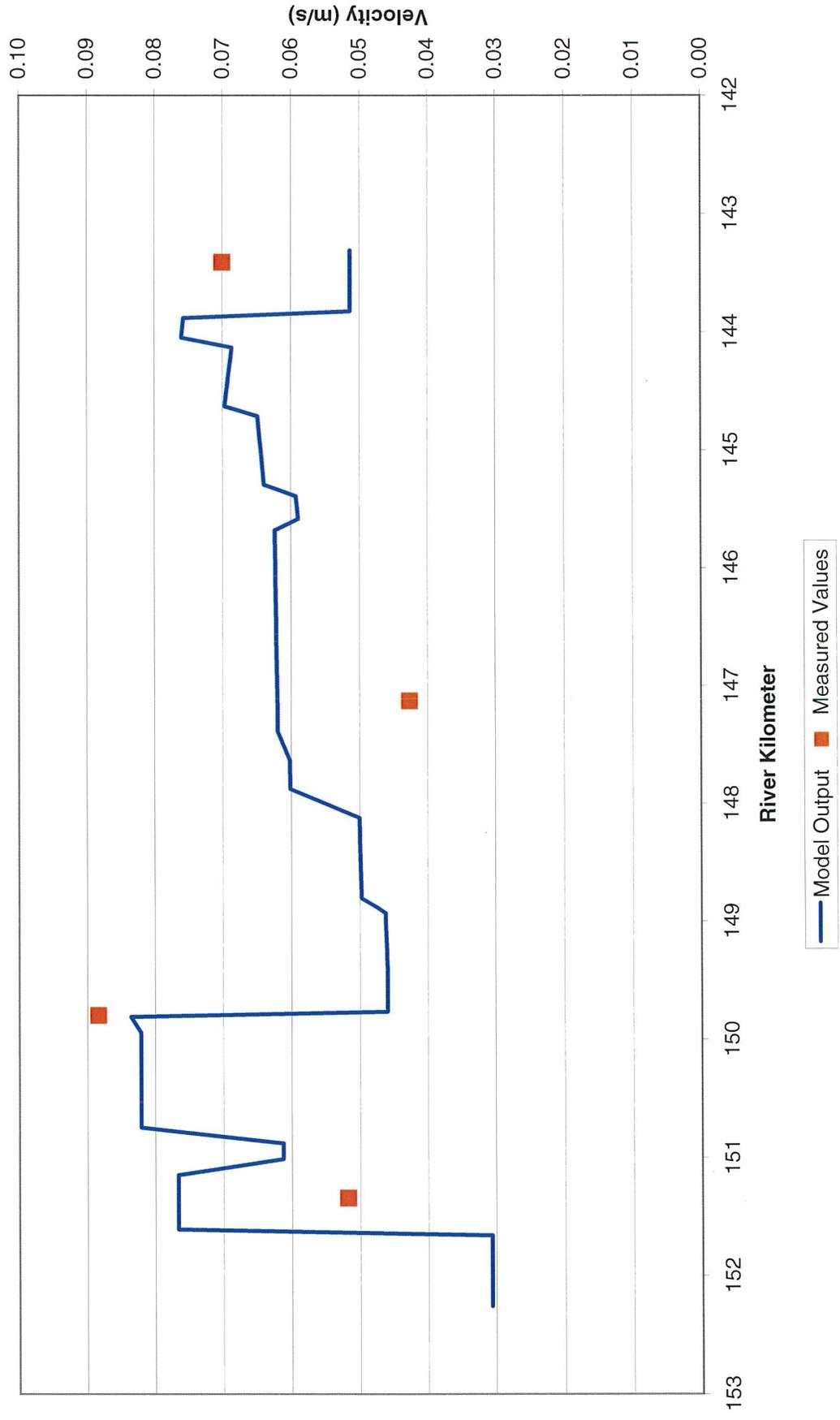


Figure L.2d
Dry Weather Calibration Event 2
Depth

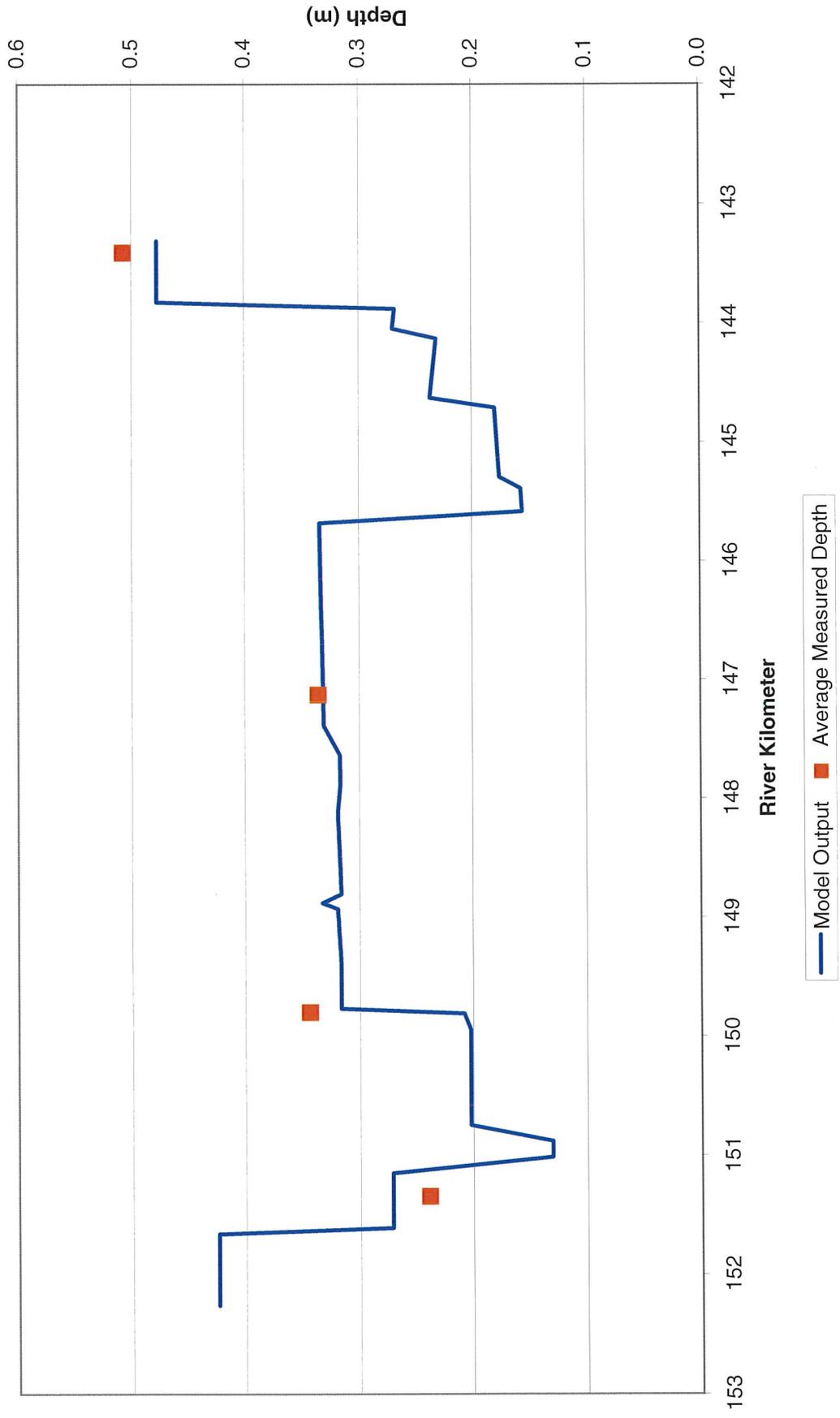


Figure L.2e
 Dry Weather Calibration Event 2
 Temperature

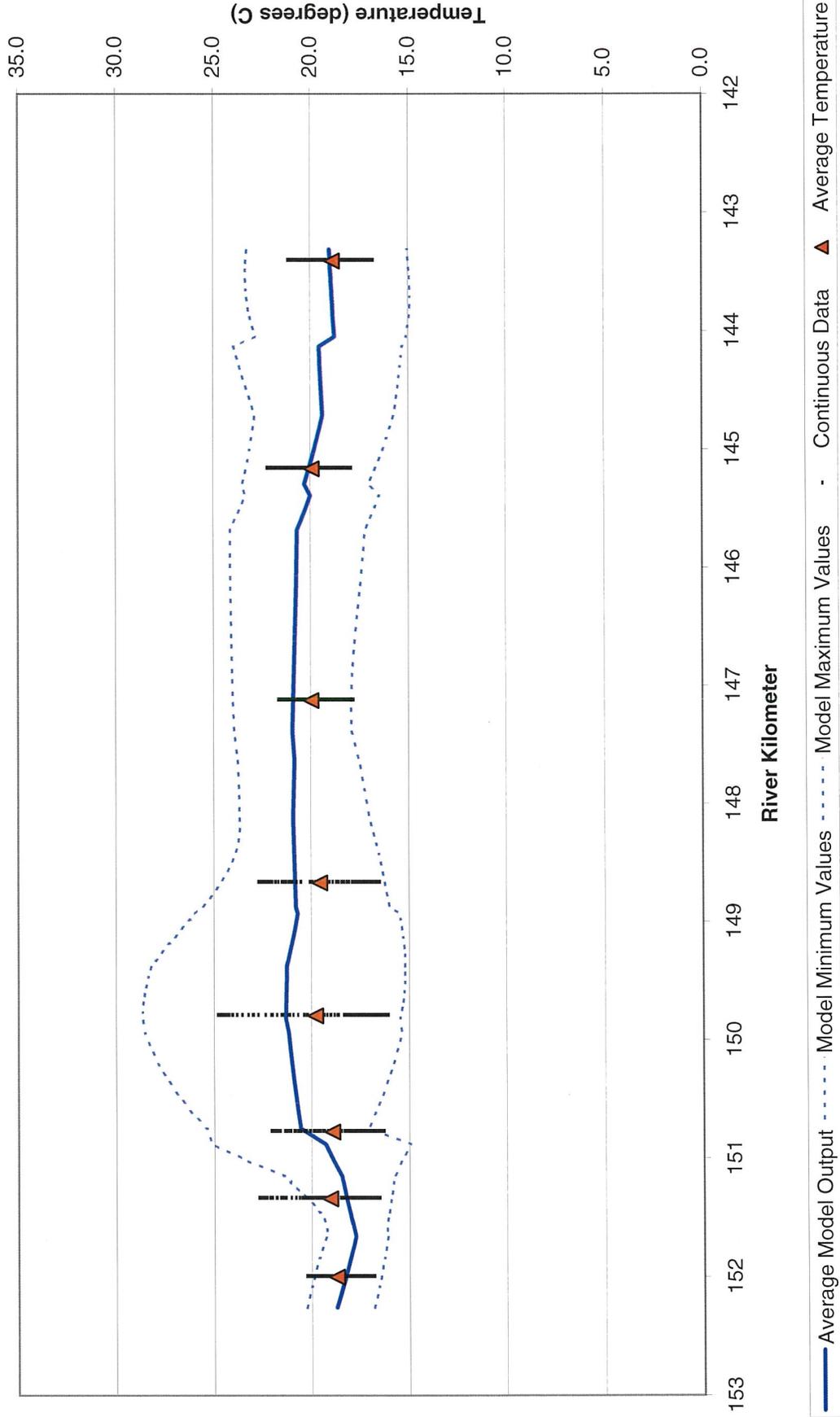


Figure L.2f
Dry Weather Calibration Event 2
CBOD_u and CBOD₂₀

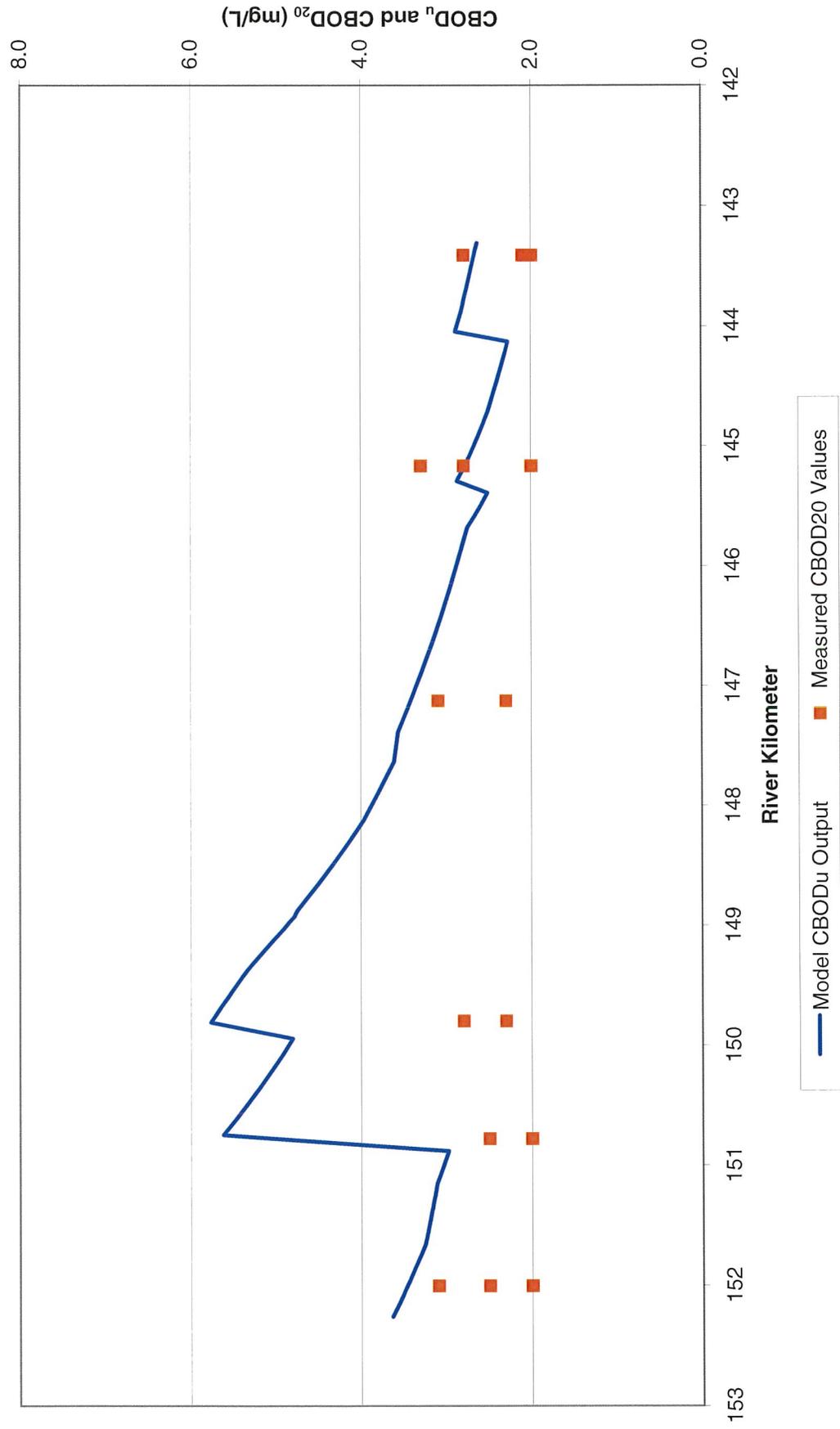


Figure L.2g
 Dry Weather Calibration Event 2
 Dissolved Oxygen

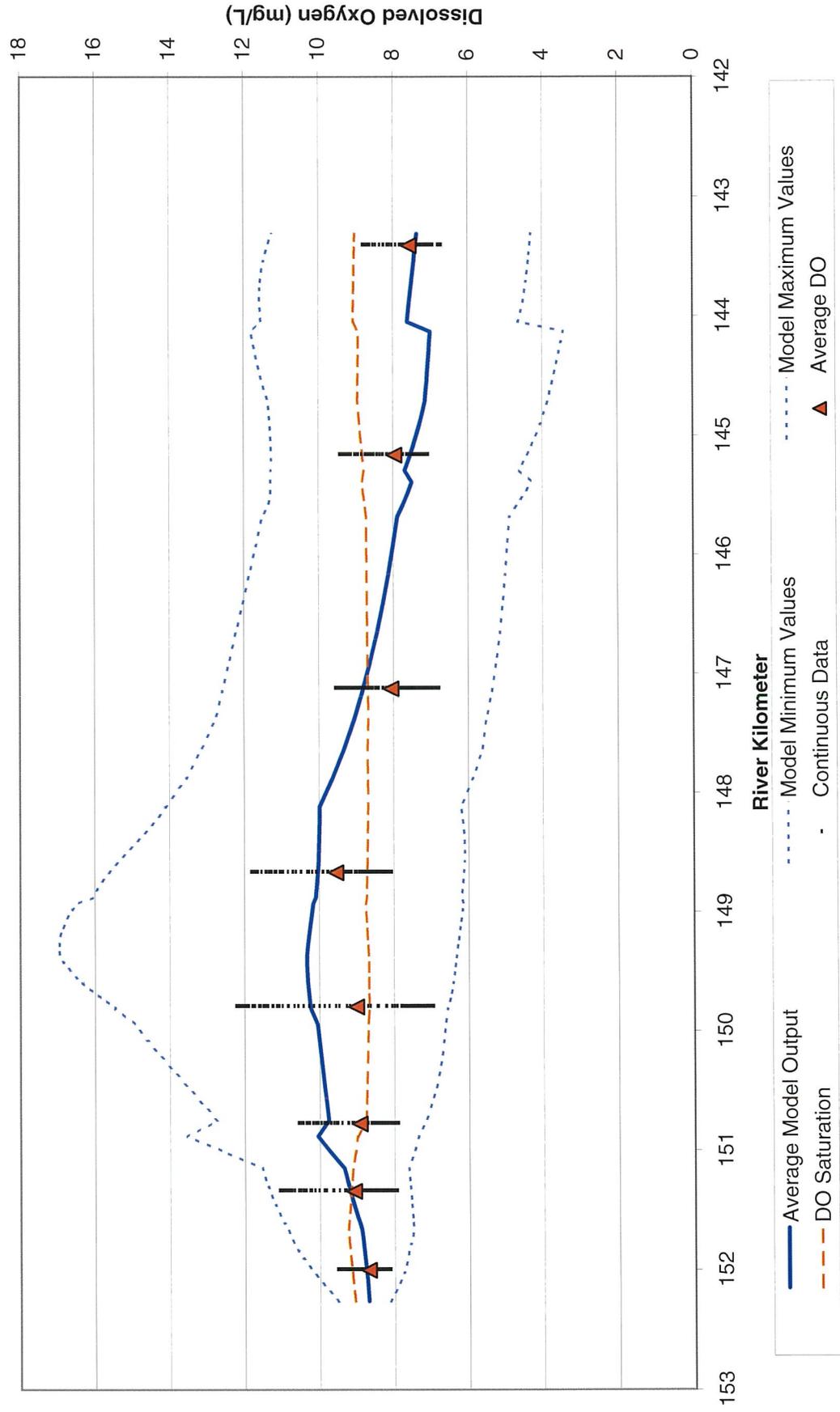


Figure L.2h
Dry Weather Calibration Event 2
Organic Nitrogen

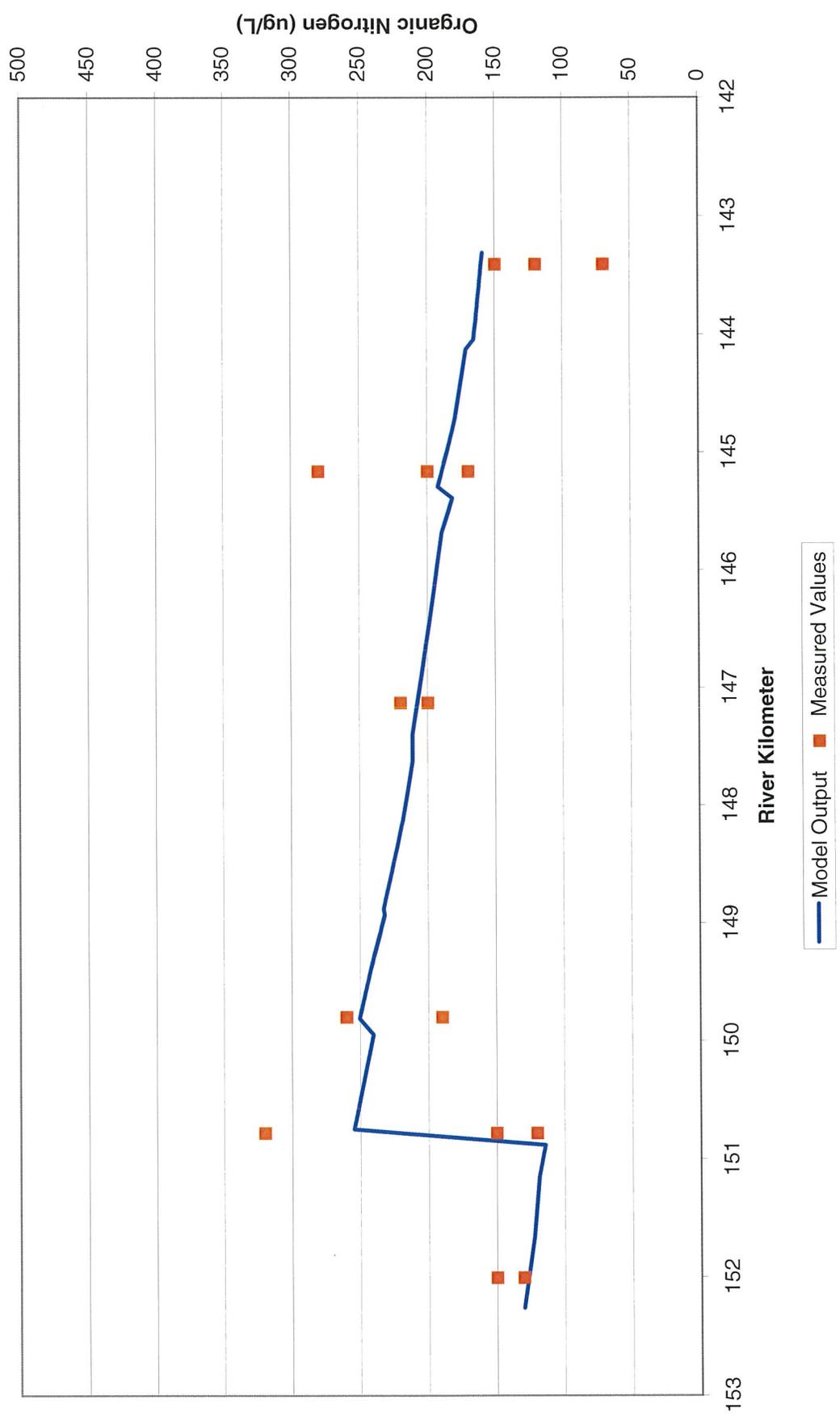


Figure L.2i
Dry Weather Calibration Event 2
Nitrate

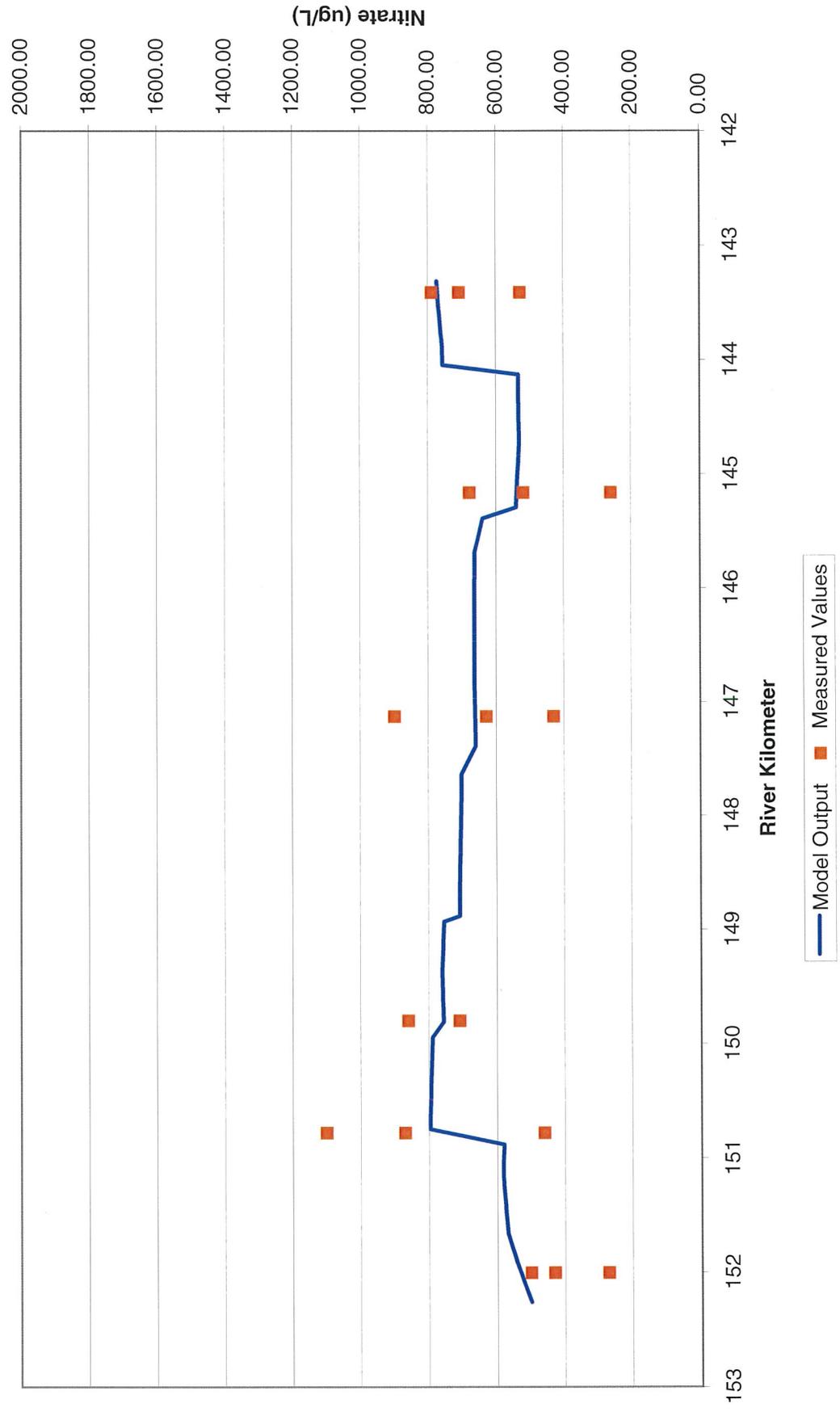


Figure L.2j
Dry Weather Calibration Event 2
Ammonia

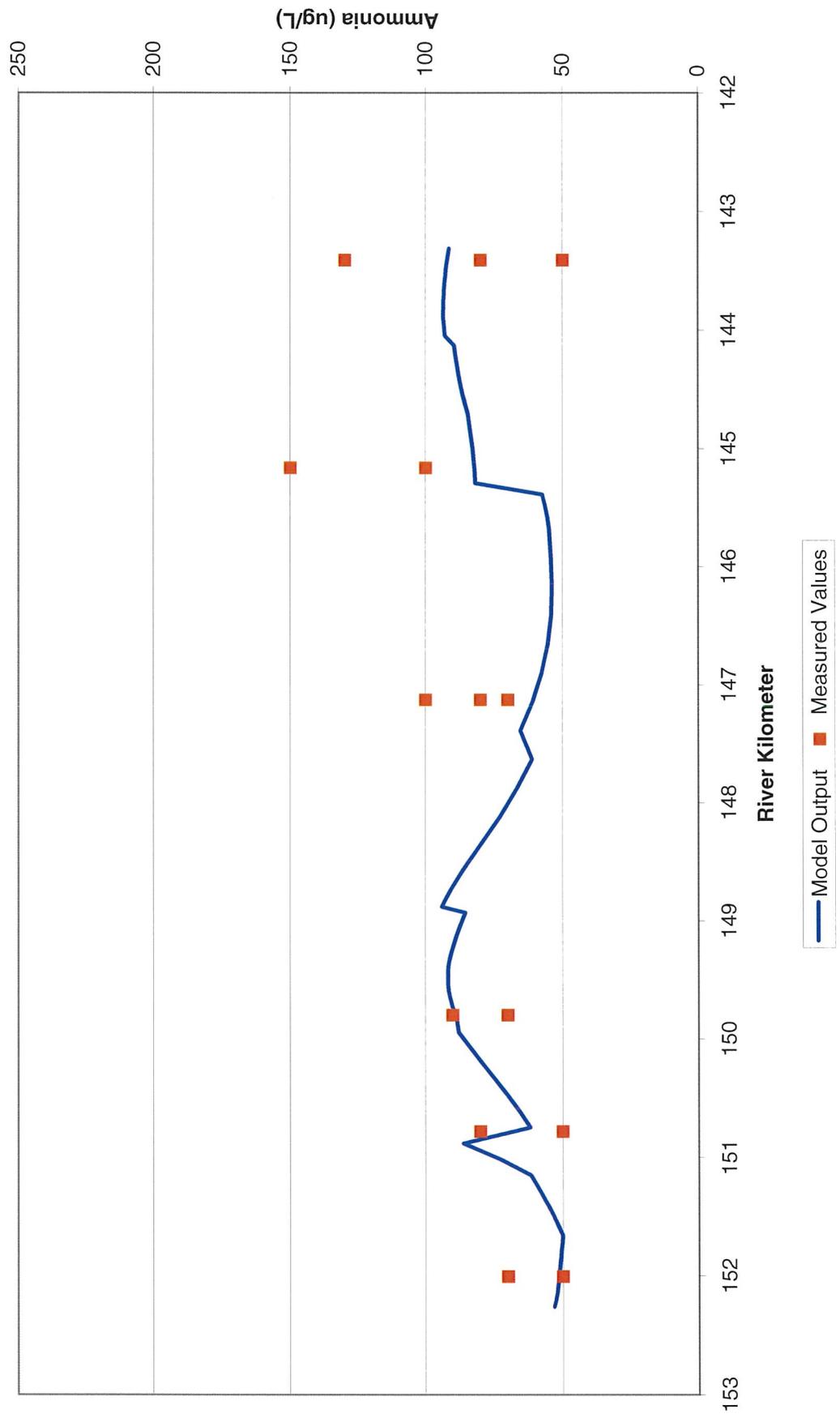


Figure L.2k
Dry Weather Calibration Event 2
Organic Phosphorus

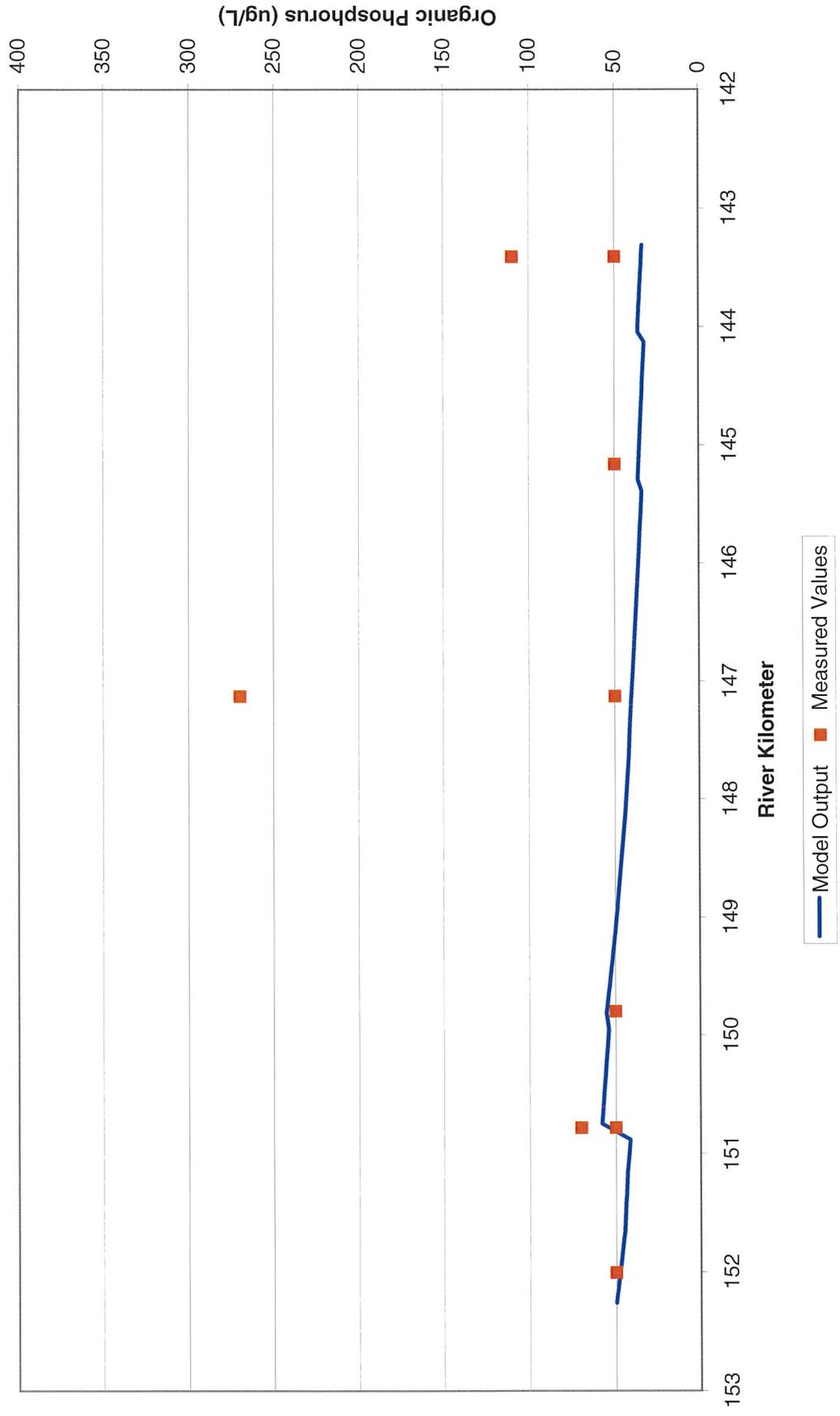


Figure L.21
Dry Weather Calibration Event 2
Inorganic Phosphorus

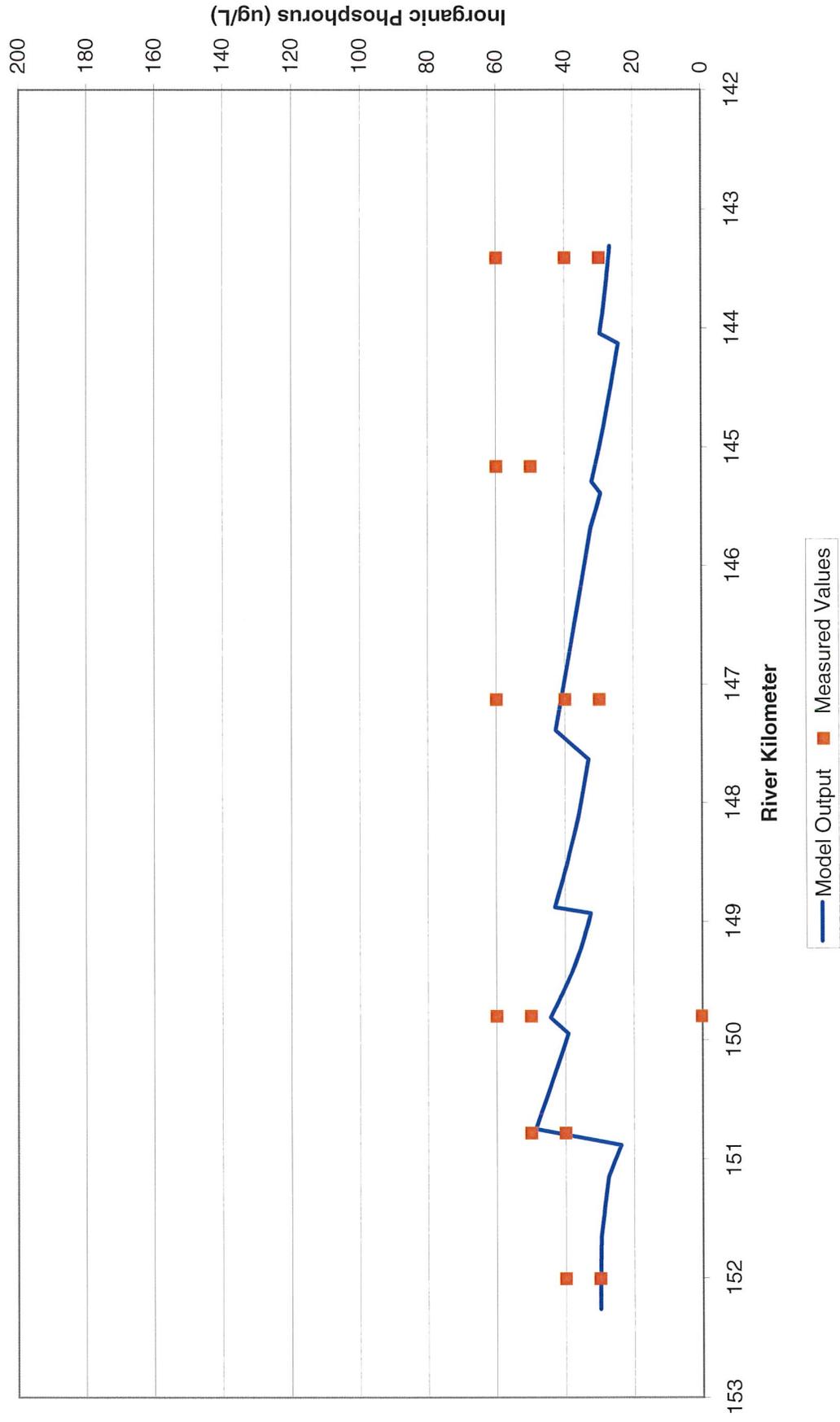


Figure L.2m
Dry Weather Calibration Event 2
Total Phosphorus

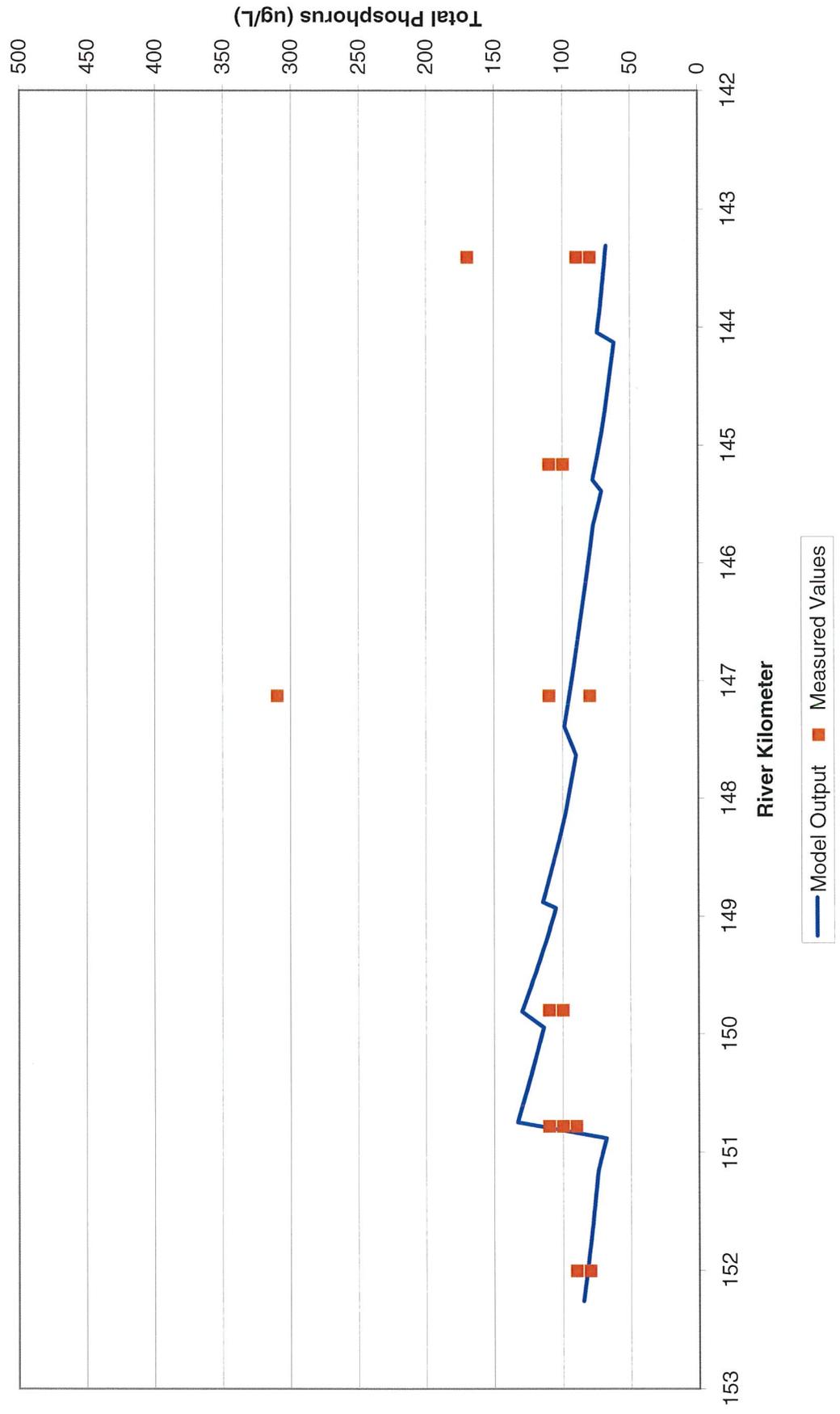


Figure L.2n
Dry Weather Calibration Event 2
Suspended Algae

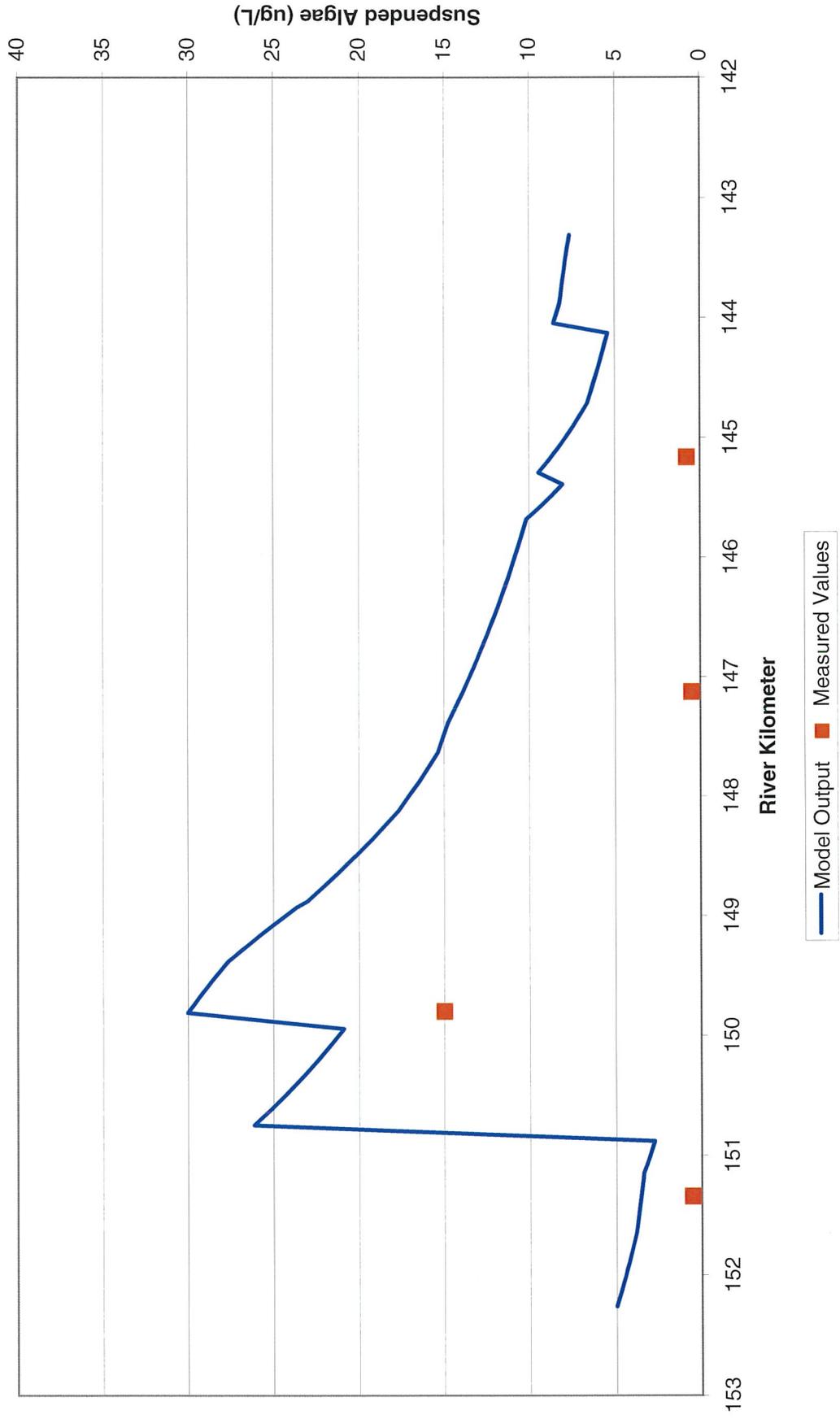


Figure L.2o
Dry Weather Calibration Event 2
Benthic Algae

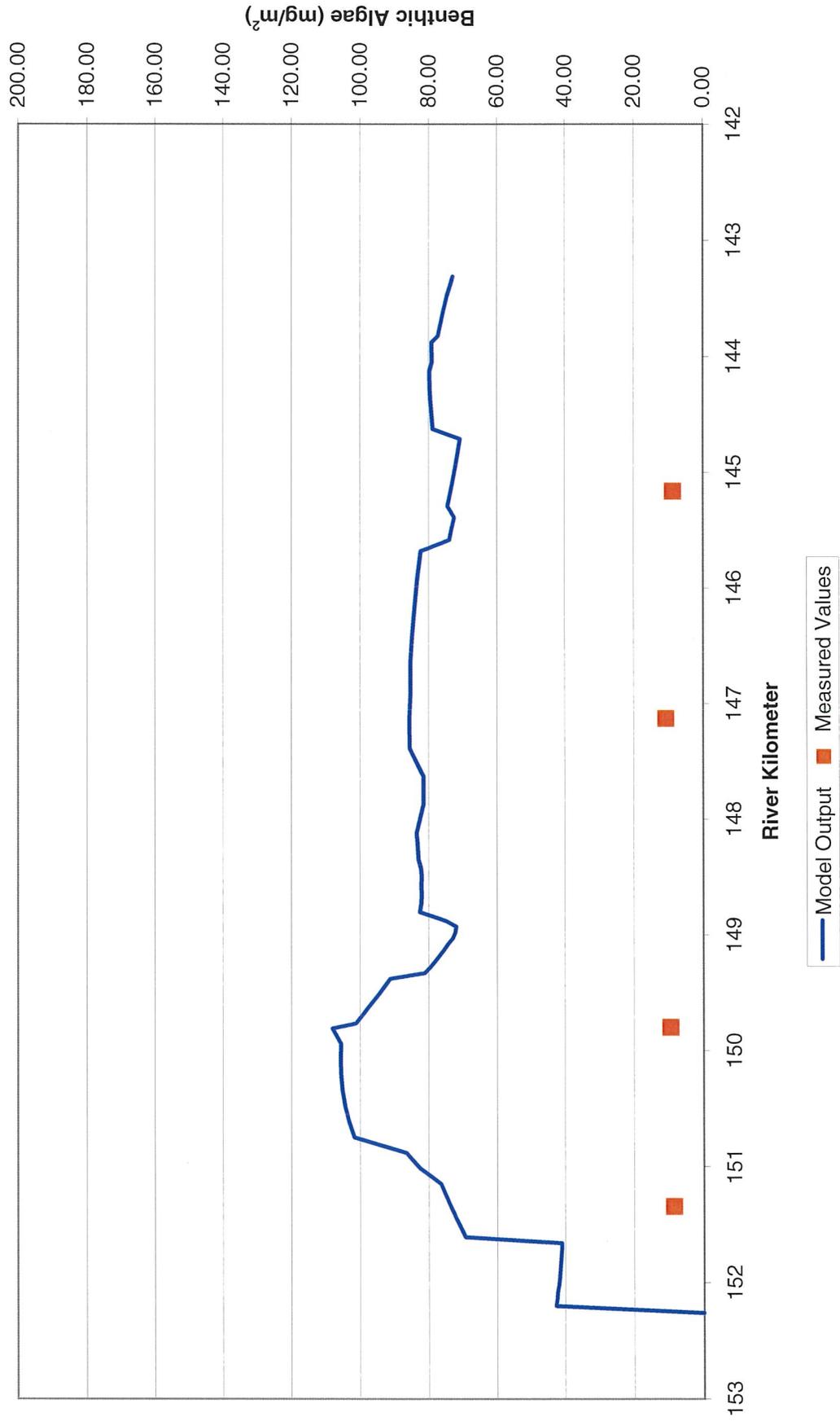


Figure L.3a
Dry Weather Validation Event 3
Travel Time

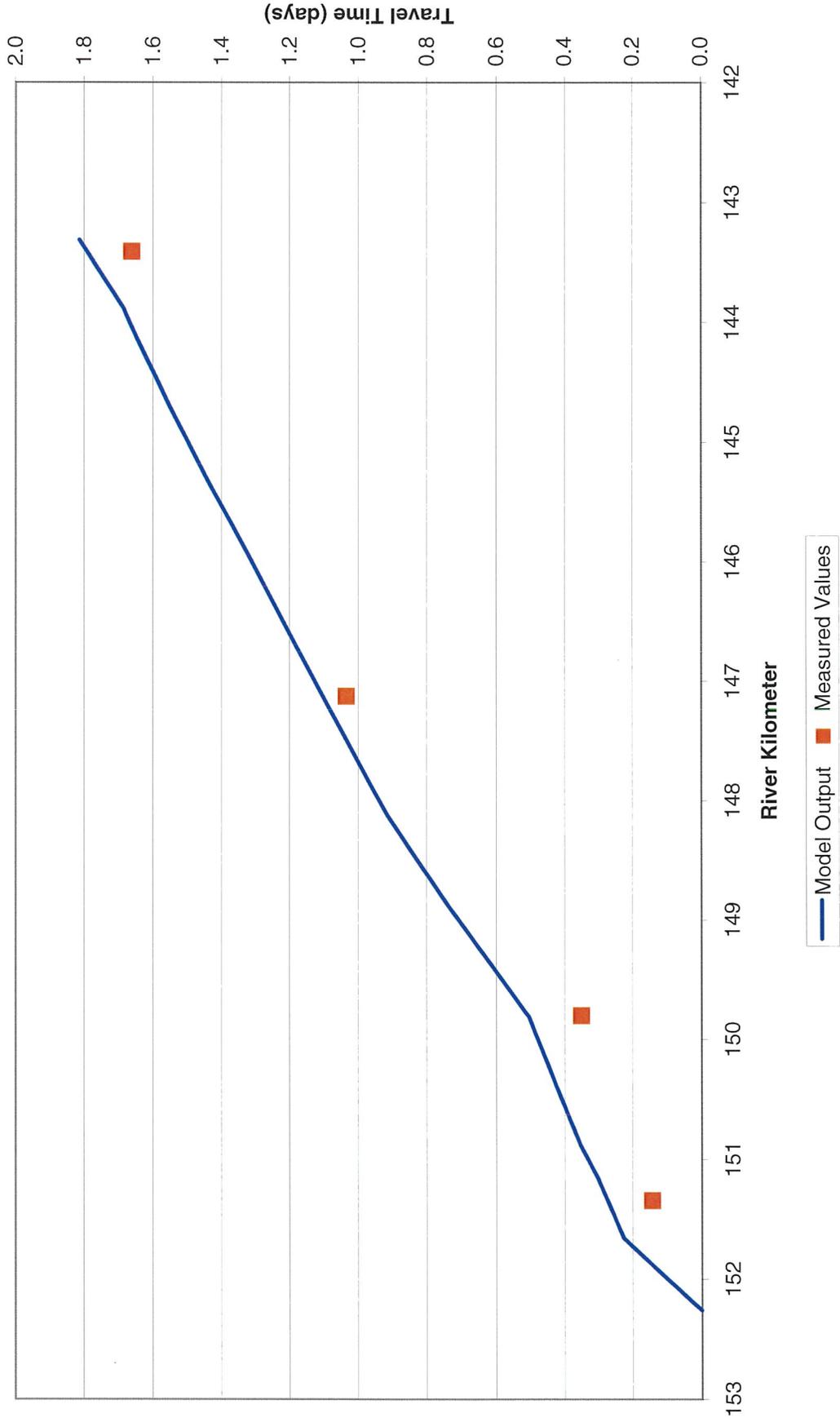


Figure L.3b
Dry Weather Validation Event 3
Flow

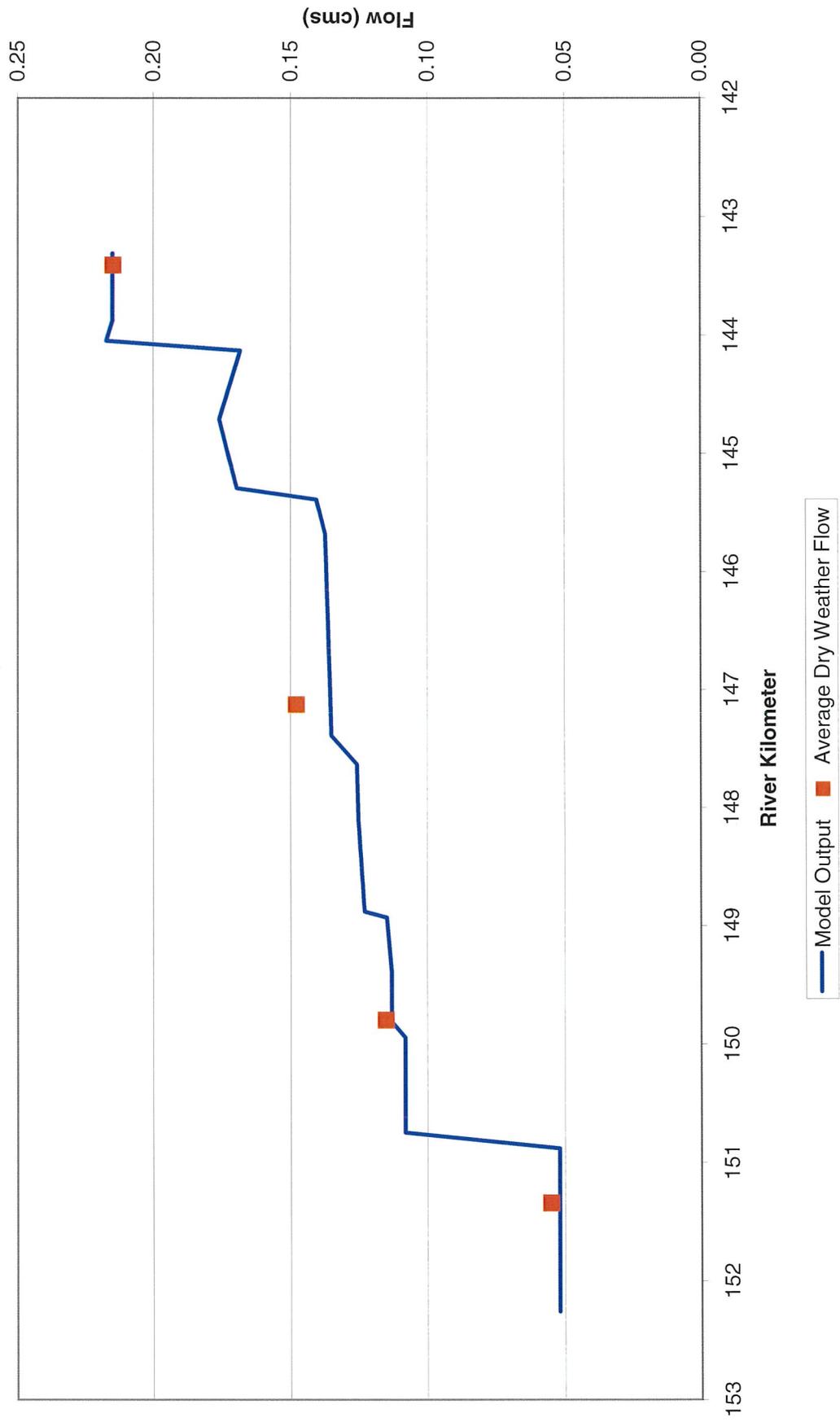


Figure L.3c
Dry Weather Validation Event 3
Velocity

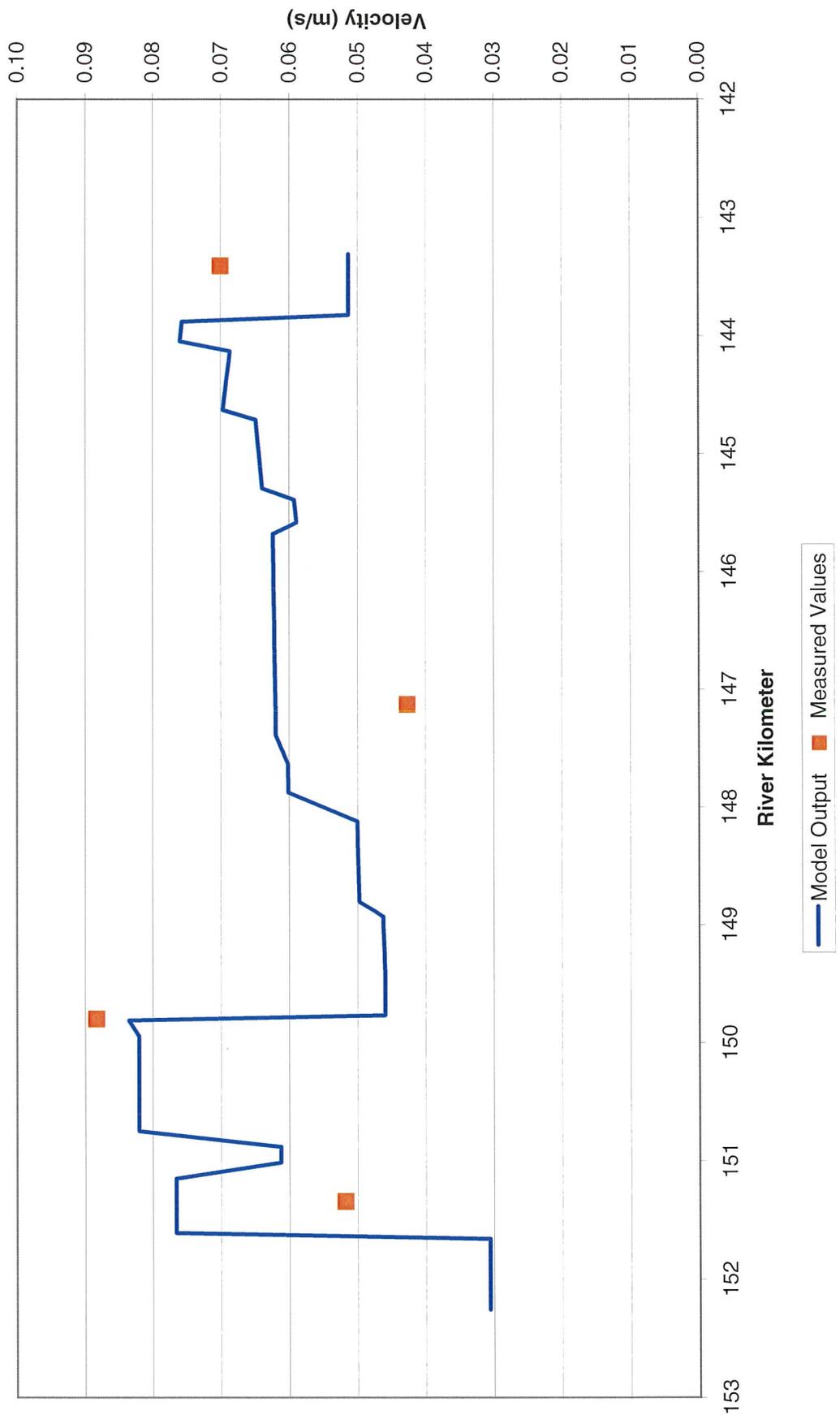


Figure L.3d
Dry Weather Validation Event 3
Depth

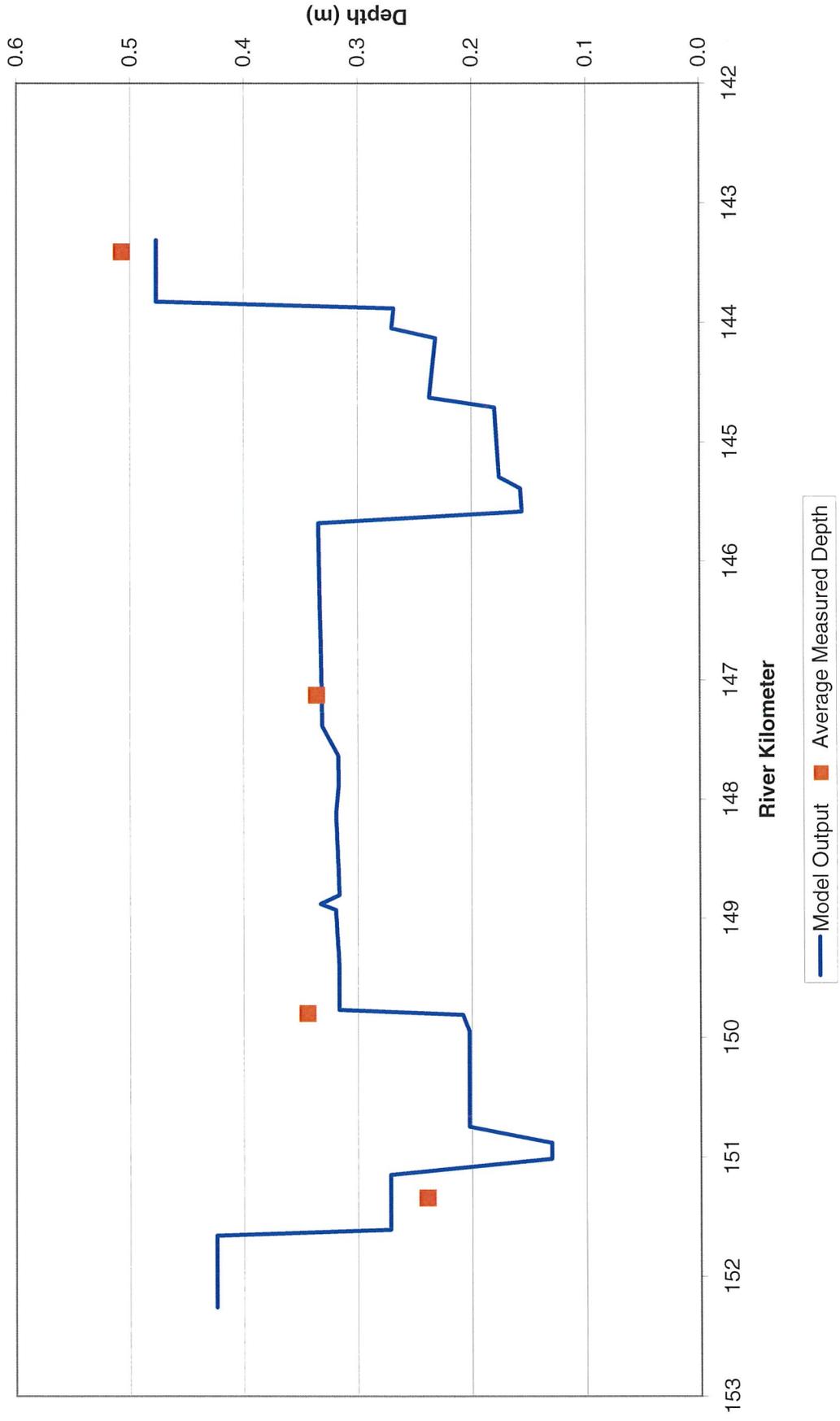


Figure L.3e
Dry Weather Validation Event 3
Temperature

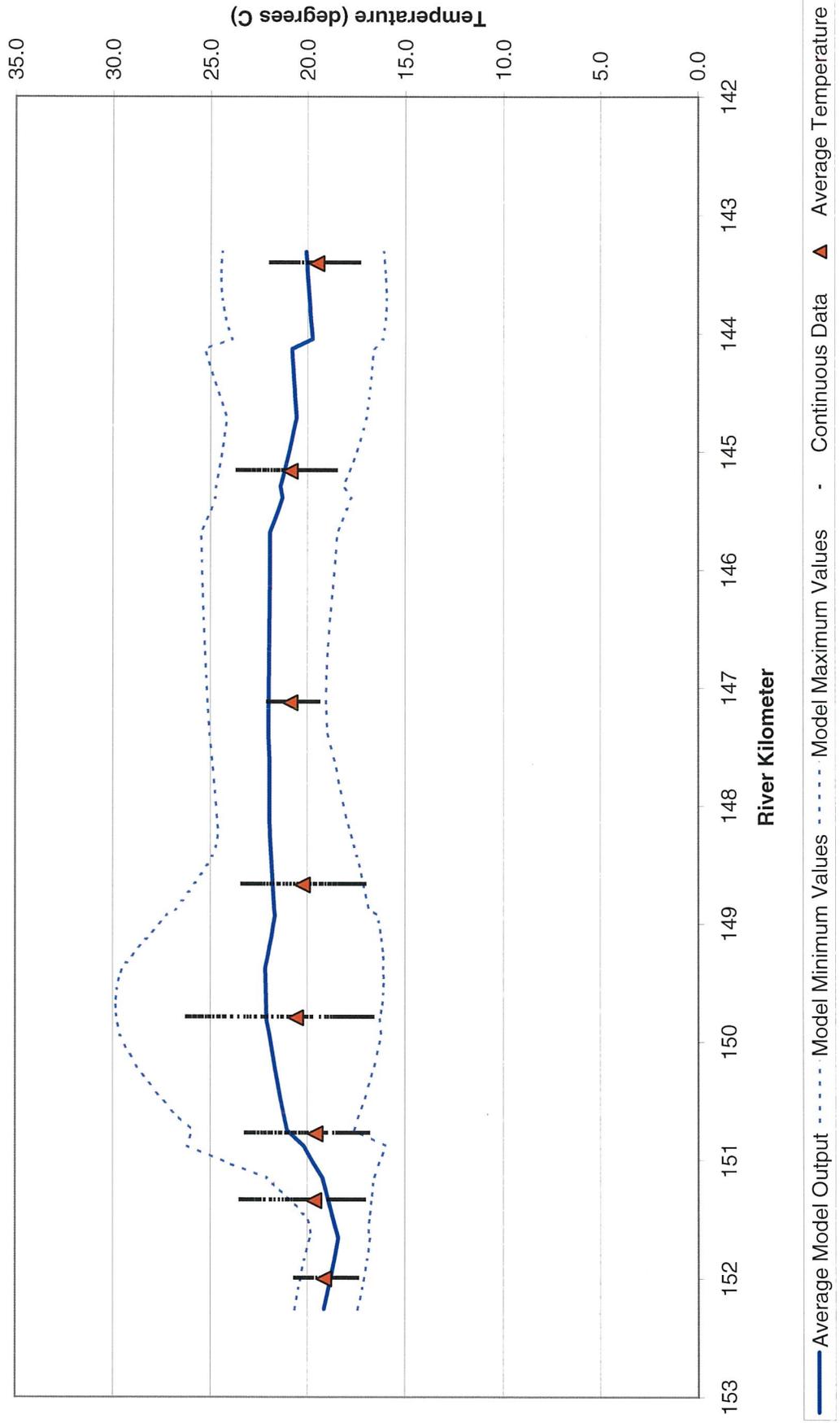


Figure L.3f
Dry Weather Validation Event 3
CBOD_u and CBOD₂₀

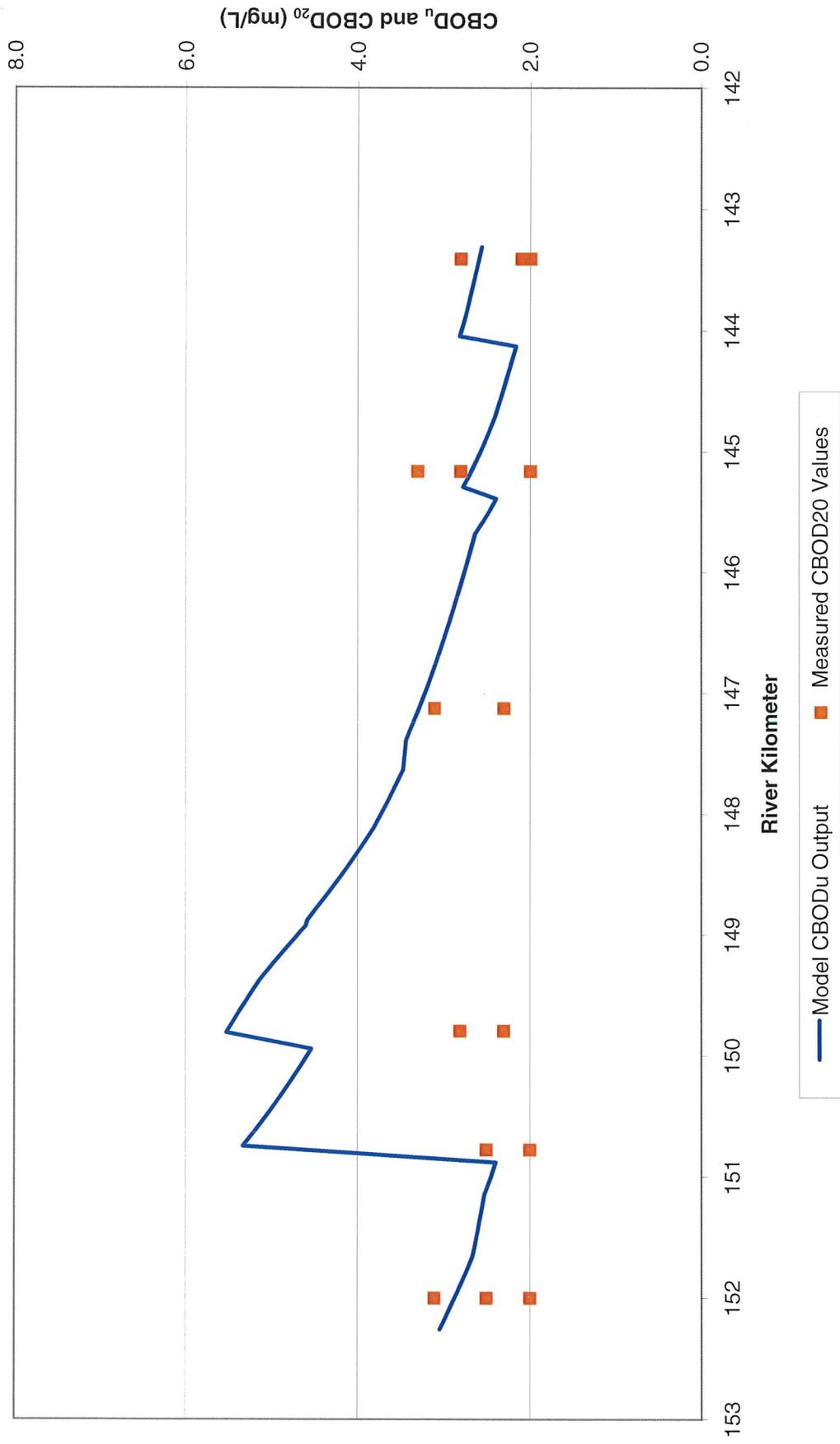


Figure L.3g
 Dry Weather Validation Event 3
 Dissolved Oxygen

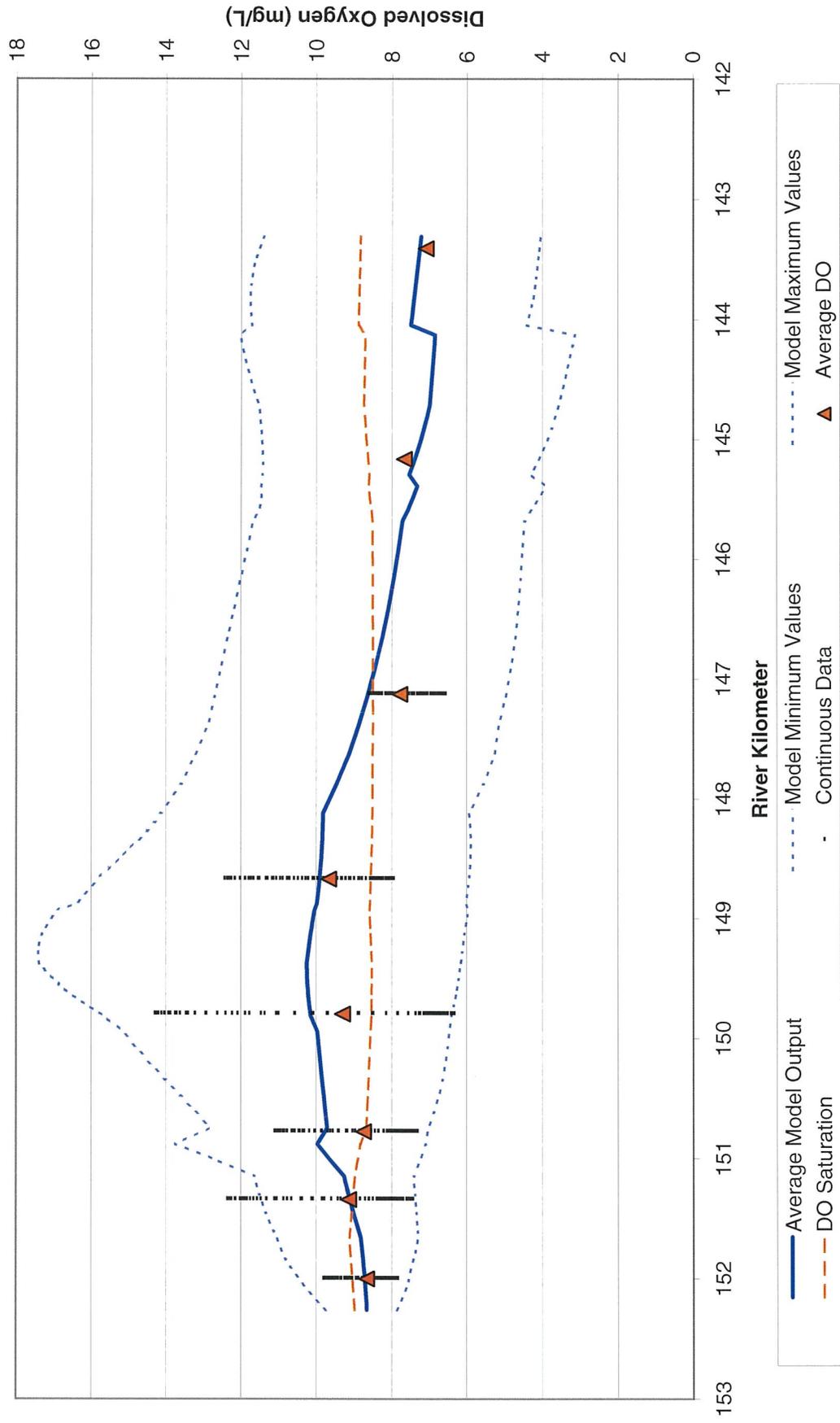


Figure L.3h
Dry Weather Validation Event 3
Organic Nitrogen

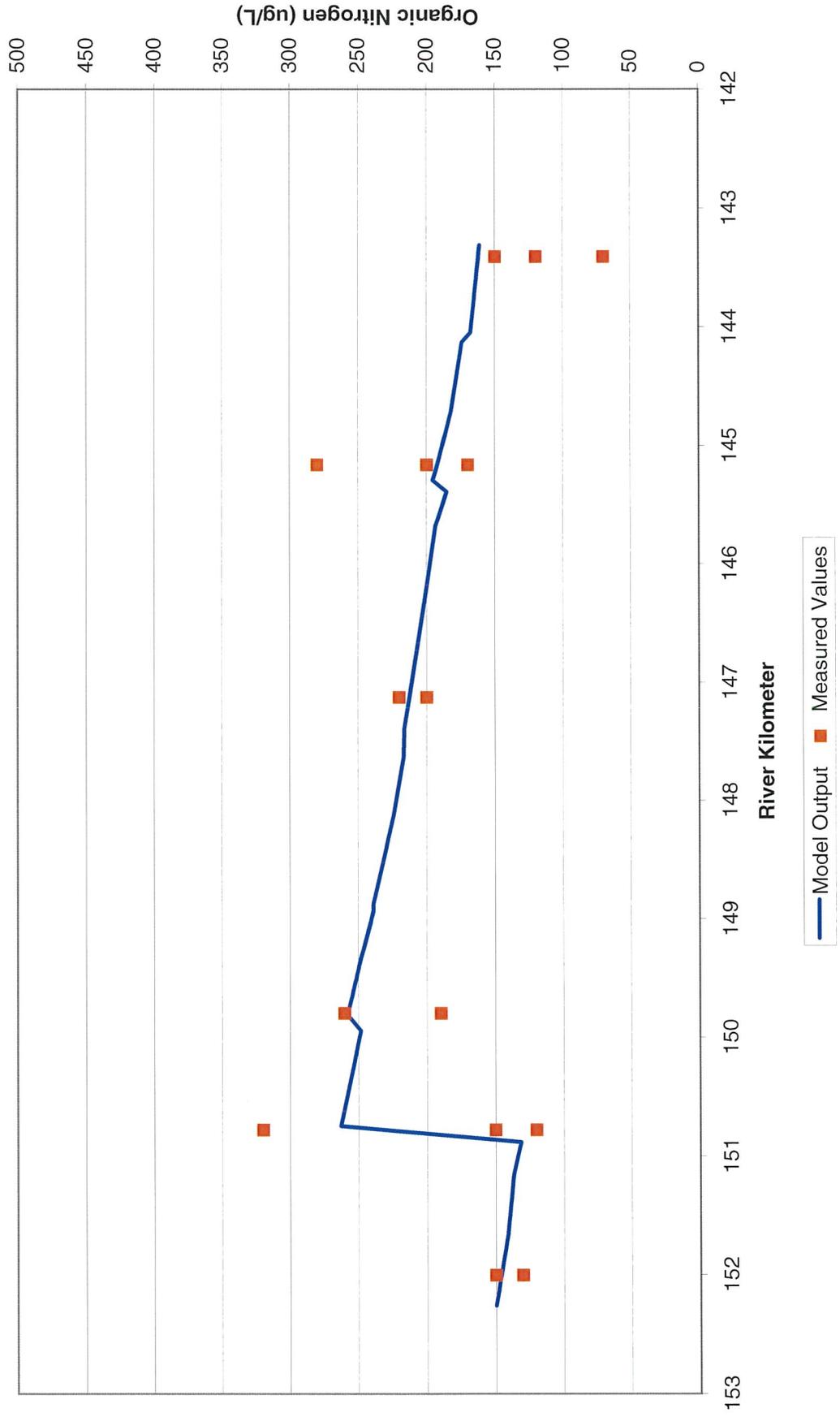


Figure L.3i
Dry Weather Validation Event 3
Nitrate

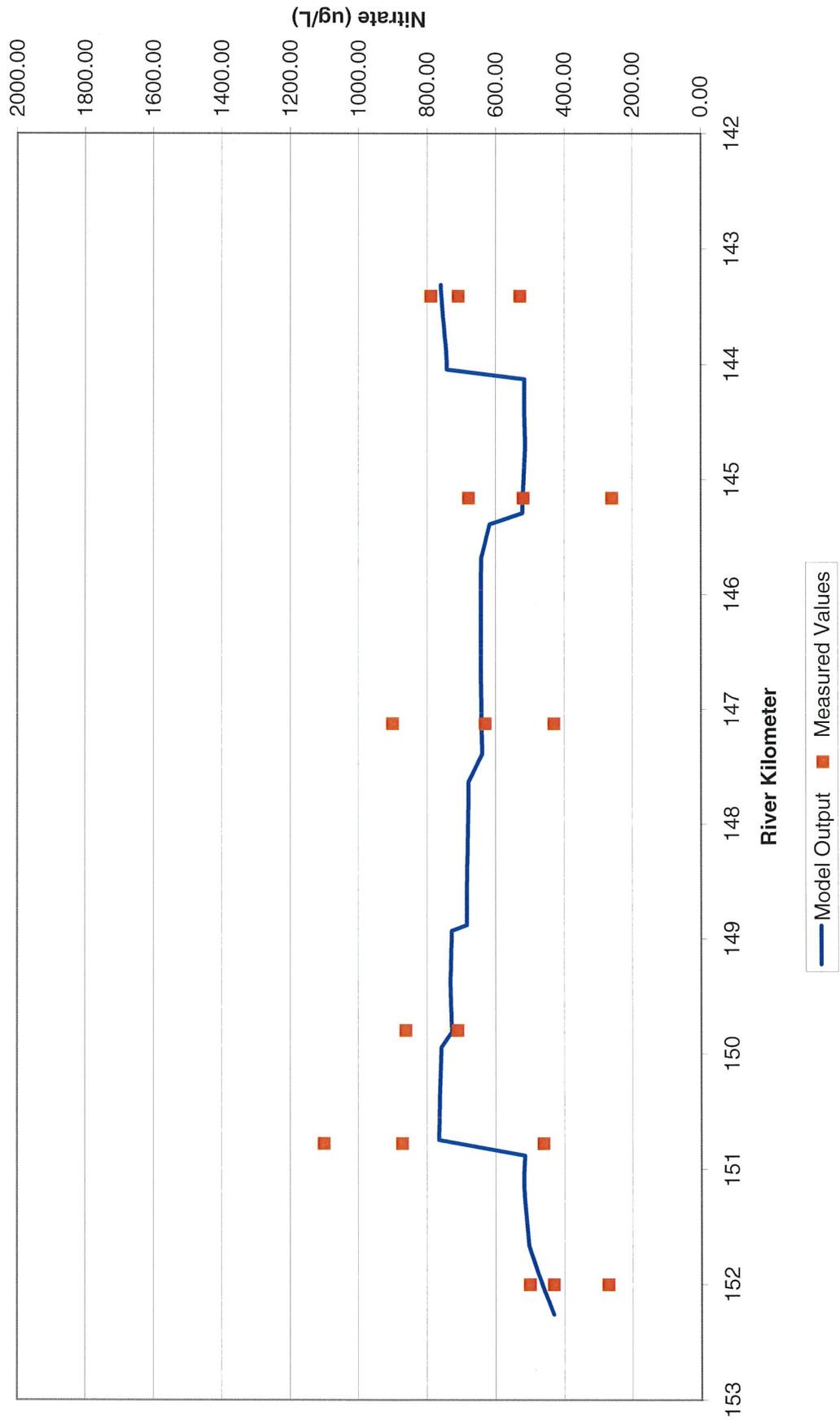


Figure L.3j
Dry Weather Validation Event 3
Ammonia

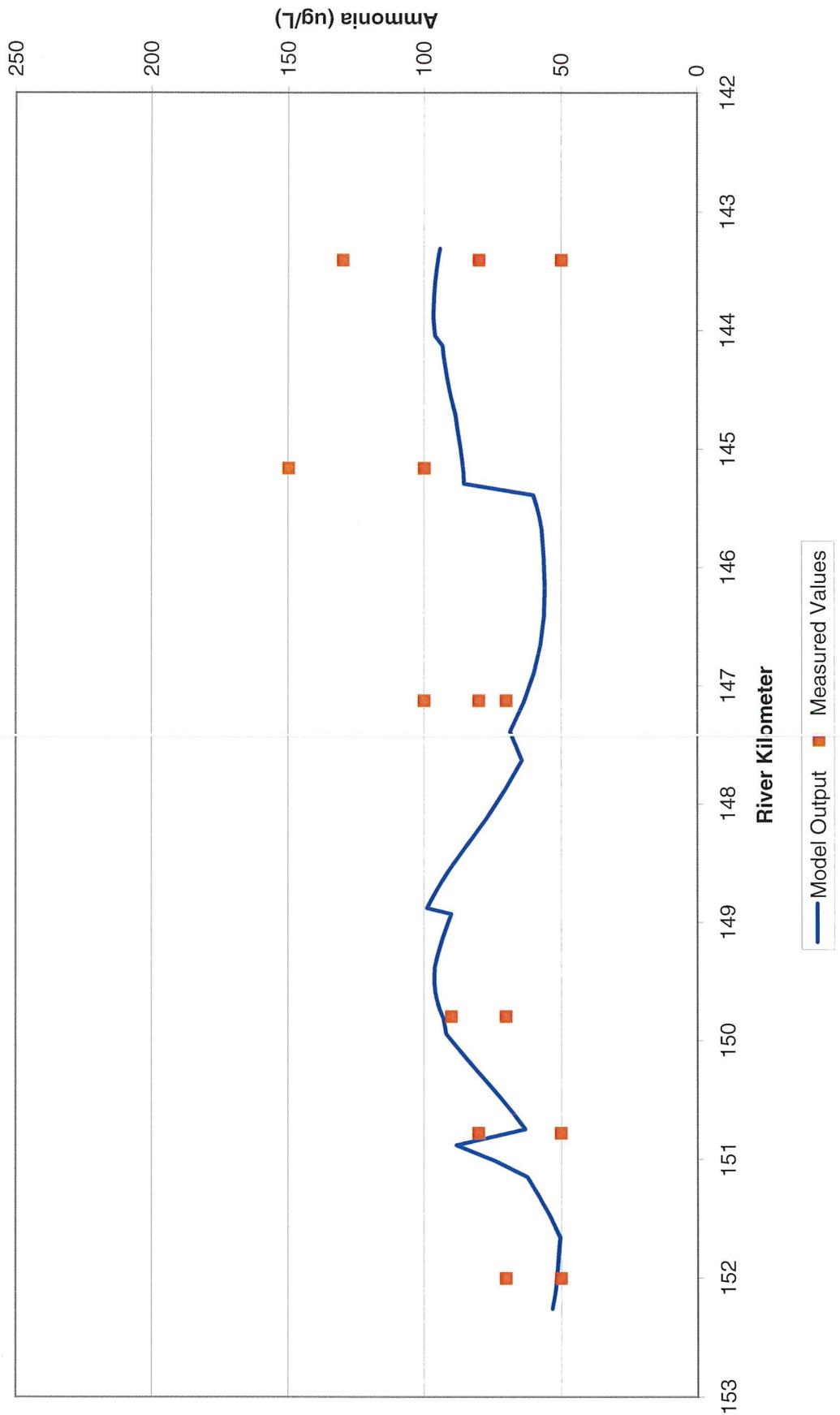


Figure L.3k
Dry Weather Validation Event 3
Organic Phosphorus

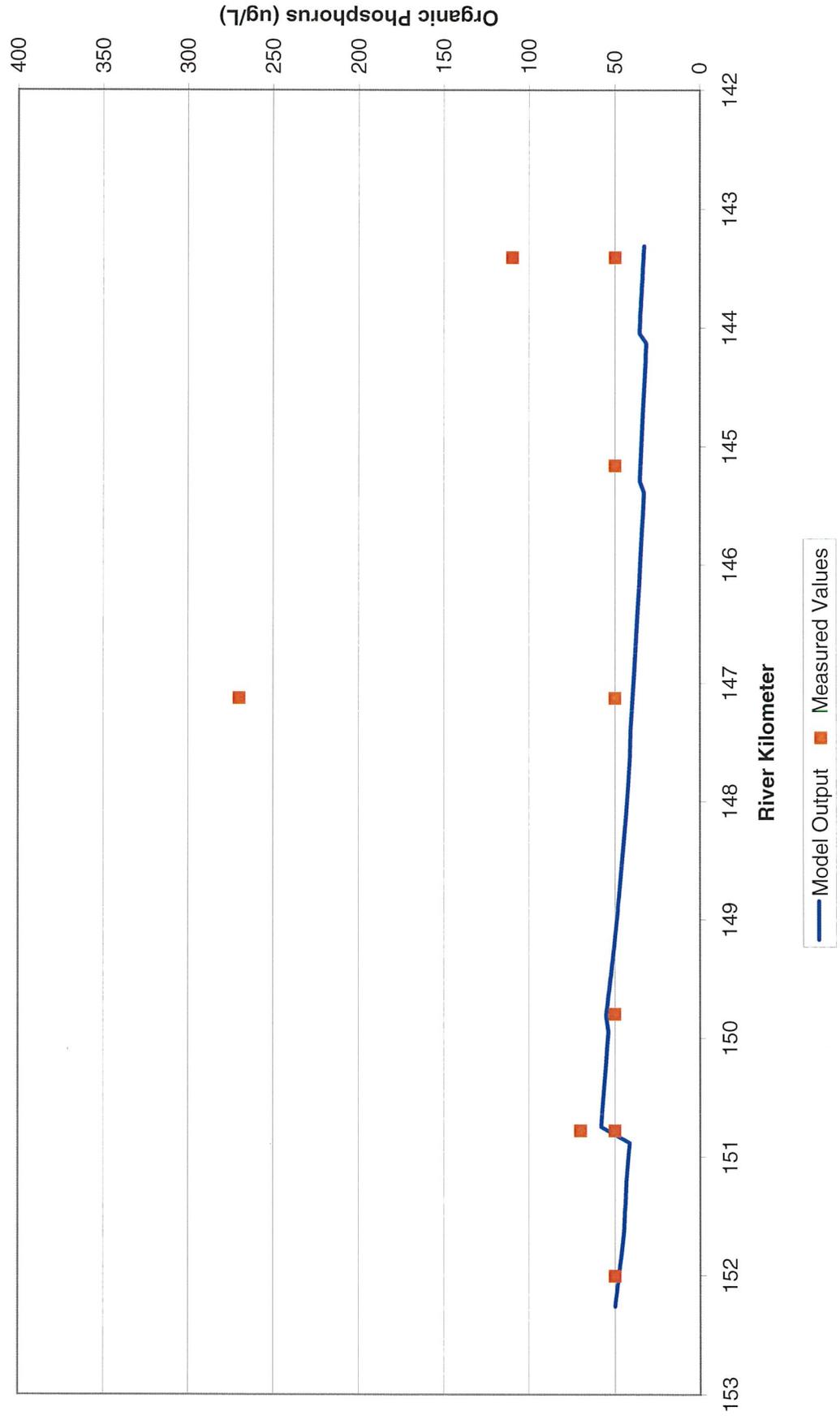


Figure L.31
Dry Weather Validation Event 3
Inorganic Phosphorus

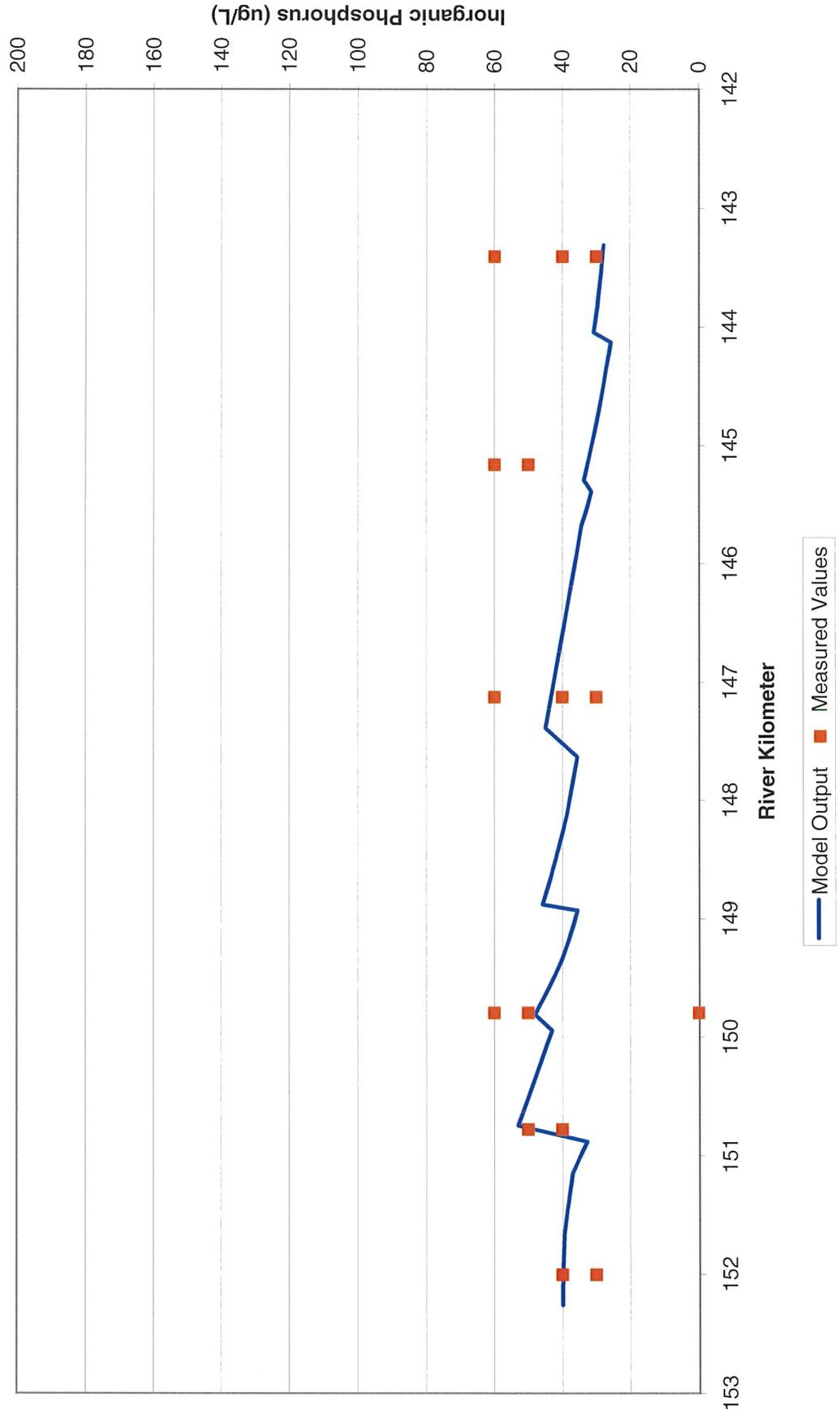


Figure L.3m
Dry Weather Validation Event 3
Total Phosphorus

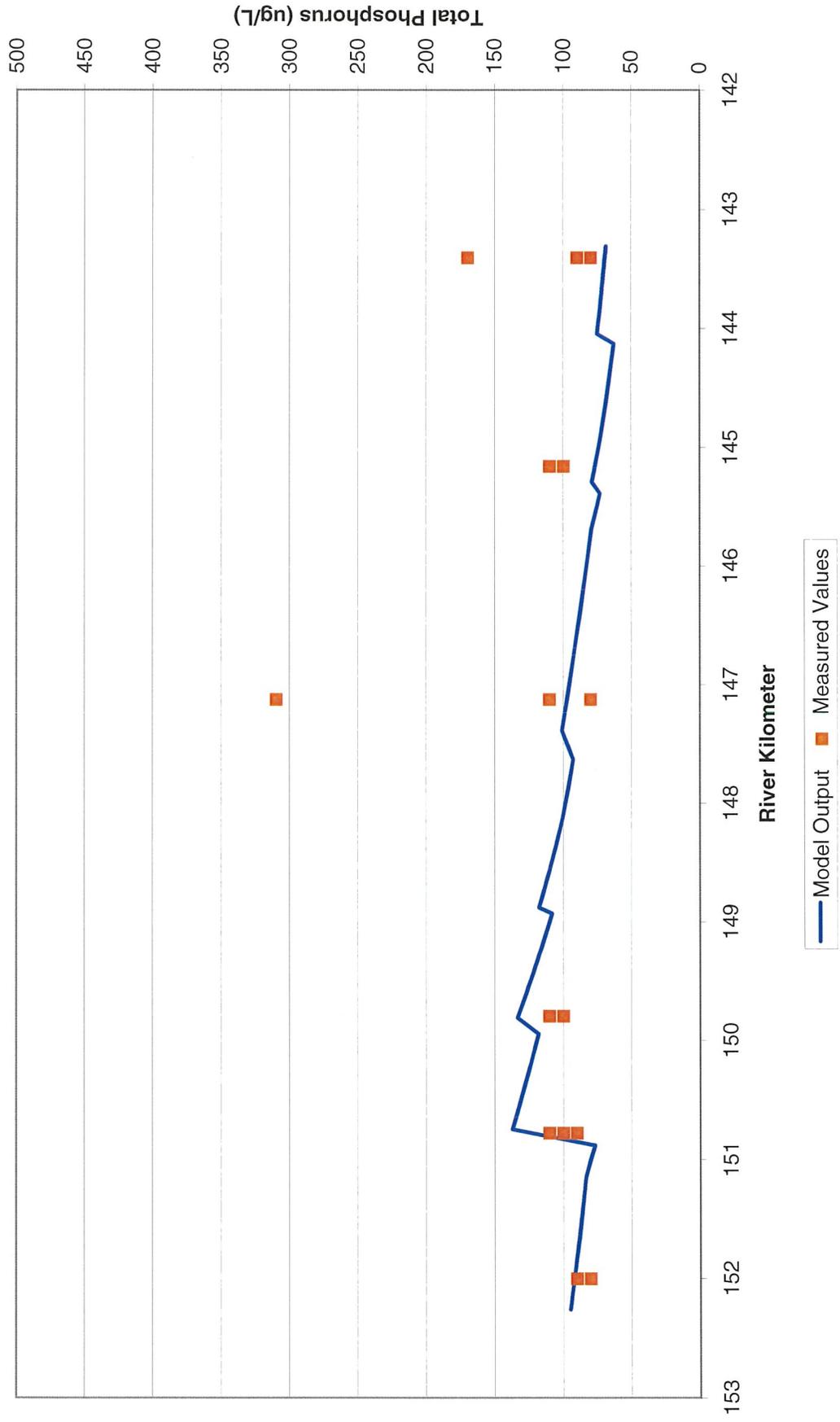


Figure L.3n
Dry Weather Validation Event 3
Suspended Algae



Figure L.3o
Dry Weather Validation Event 3
Benthic Algae

