

File Names

16:51 Thursday, December 9, 2004 1

File #	Original File Name
1	ENVCAN_SHEMP_GAG_JRB_ORG+INORG_VAPS_2000_2002_V1.csv

Dataset Key Phrases

Data Exchange Standard Version	Principal Investigator Name--last first	Principal Investigator Affiliation	File Contents Description--short long	Sampling Interval As Reported in Main Table
NARSTO 2002/05/28 (2.301)	Brook ; Jeffrey	Environment Canada, Meteorological Service of Canada	air-filter-meas ; Air filter measurements	Variable interval

Sampling Frequency Of Data in Main Table	Quality Control Level	Organization Acronym	Organization Name	Data Usage Acknowledgement	Study Or Network Acronym
Variable frequency	1	ENVCAN_MSC	Environment Canada--Meteorological Service of Canada	Environment Canada, Meteorological Service of Canada, 4905 Dufferin St., Toronto, Ont. M3H 5T4	ENVCAN_SHEMP

Study Or Network Name	Country Code	State Or Province Code	Principal Investigator Contact Information	Co-investigator Name--last first	Co-investigator Affiliation
Environment Canada--Study of the Health Effects of the Mix of Urban Air Pollutants	CA	ON	Environment Canada, Meteorological Service of Canada, 4905 Dufferin St., Toronto, Ont. M3H 5T4	None ; None	None

Name And Affiliation Of Person Who Generated This File	Date Of Last Modification To Data In Main Table	Name And Version Of Software Used To Create This File
Bill Sukloff, Environment Canada (MSC)	2003/02/10	MS Excel/2002

Companion File Name format And Version	Date This File Generated archive Version Number	Table Explanation Of Zero Or Negative Values	Table Explanation Of Reported Detection Limit Values
None ; None	2004/11/26 ; 1	Zero and negative values are reported and reflect actual laboratory analysis results with blank correction, if required, and are flagged as BDL	Detection limits determined as 3SD of field blanks divided mean sample volume and are reported with each measurement.

Table Explanation Of Reported Uncertainty	Table User Note	Table User Note2	Table User Note3	Table User Note4	Table Name	Table Focus
no uncertainty reported	None	None			air_filter_meas	Surface--fixed

Site Information

Site ID	Name	State Province code	Latitude: decimal degree	Longitude: decimal degree	Sampling height above ground (m)	Ground elevation above sea level (m)	Site land use
SHEMCAONGAG_	Gage	ON	43.65842	-79.39714	15.0	103.6	Residential

Site ID	Site location setting	Measurement start date	Measurement end date	Co-incident measurements	Study site ID	Lat lon accuracy
SHEMCAONGAG_	Urban and center city	2000/02/14	2002/07/31	None		.

NARSTO Standard Flags

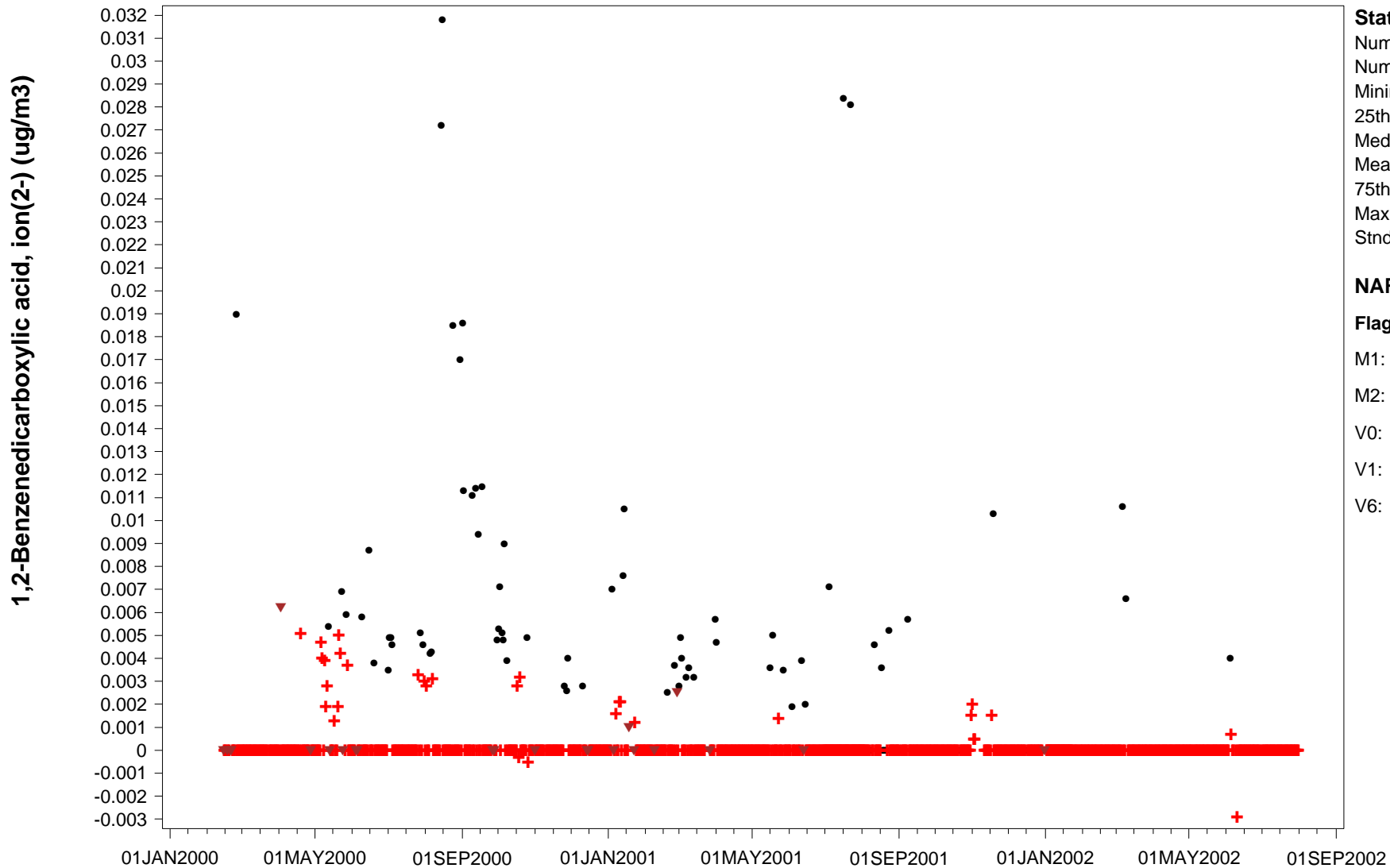
Flag: NARSTO	Description
M1	Missing value because no value is available
M2	Missing value because invalidated by Data Originator
V0	Valid value
V1	Valid value but comprised wholly or partially of below detection limit data
V6	Valid value but qualified due to non-standard sampling conditions

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **1,2-Benzenedicarboxylic acid, ion(2-)** Common Name: **Phthalic** Units: **ug/m3**
 Sampling interval: **Variable interval** Sampling frequency: **Variable frequency** CAS ID: **C3198-29-6** Observation type: **Particles**
 Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter**
 Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**
 Blank Correction: **Not blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **35**
 Minimum: **-0.0029**
 25th Percentile: **0**
 Median: **0**
 Mean: **0.001**
 75th Percentile: **0**
 Maximum: **0.0318**
 Std Dev.: **0.003**

NARSTO Flags

Flag Symbol Count

M1:		27
M2:		8
V0:	●	76
V1:	+	832
V6:	▼	23

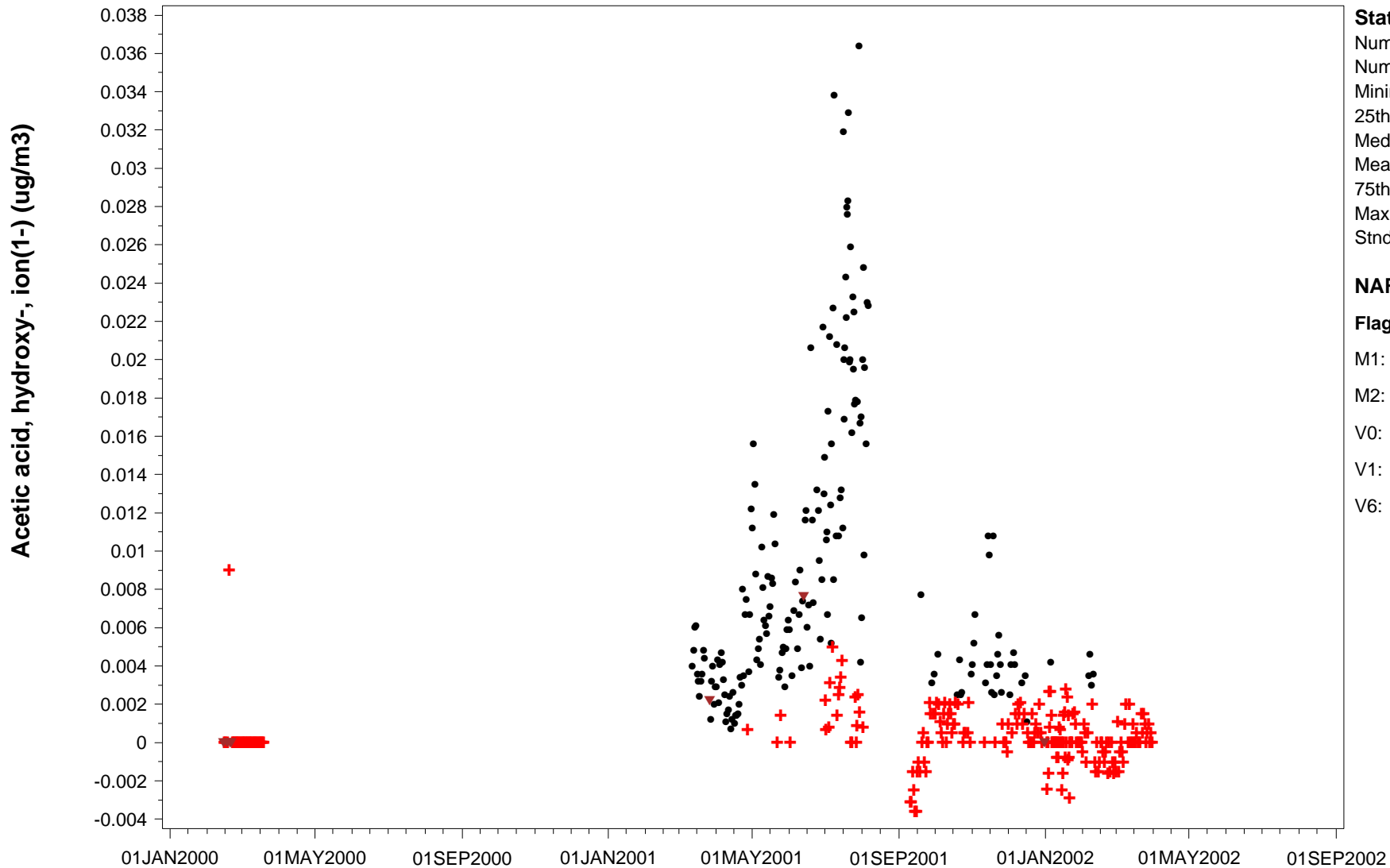
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Acetic acid, hydroxy-, ion(1-)** Common Name: **Glycolic** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C666-14-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Not blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **546**
 Minimum: **-0.0036**
 25th Percentile: **0**
 Median: **0.0015**
 Mean: **0.004**
 75th Percentile: **0.005**
 Maximum: **0.0364**
 Stnd Dev.: **0.007**

NARSTO Flags

Flag Symbol Count

M1:		544
M2:		2
V0:	●	185
V1:	+	228
V6:	▼	7

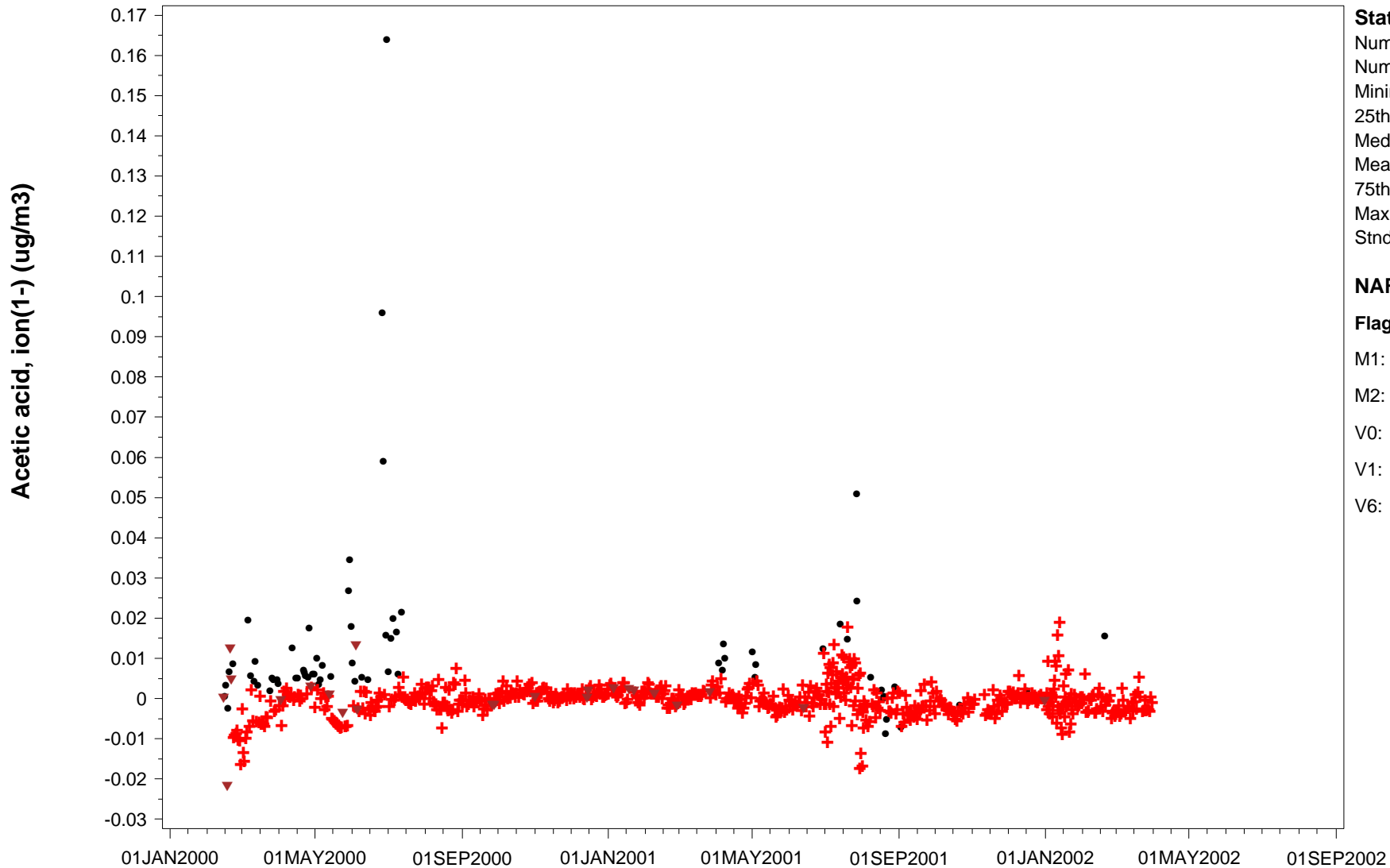
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Acetic acid, ion(1-)** Common Name: **Acetate** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C71-50-1** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **160**
 Minimum: **-0.0218**
 25th Percentile: **-0.002**
 Median: **0.0001**
 Mean: **0.001**
 75th Percentile: **0.0019**
 Maximum: **0.1639**
 Stnd Dev.: **0.009**

NARSTO Flags

Flag Symbol Count

M1:		156
M2:		4
V0:	●	71
V1:	+	712
V6:	▼	23

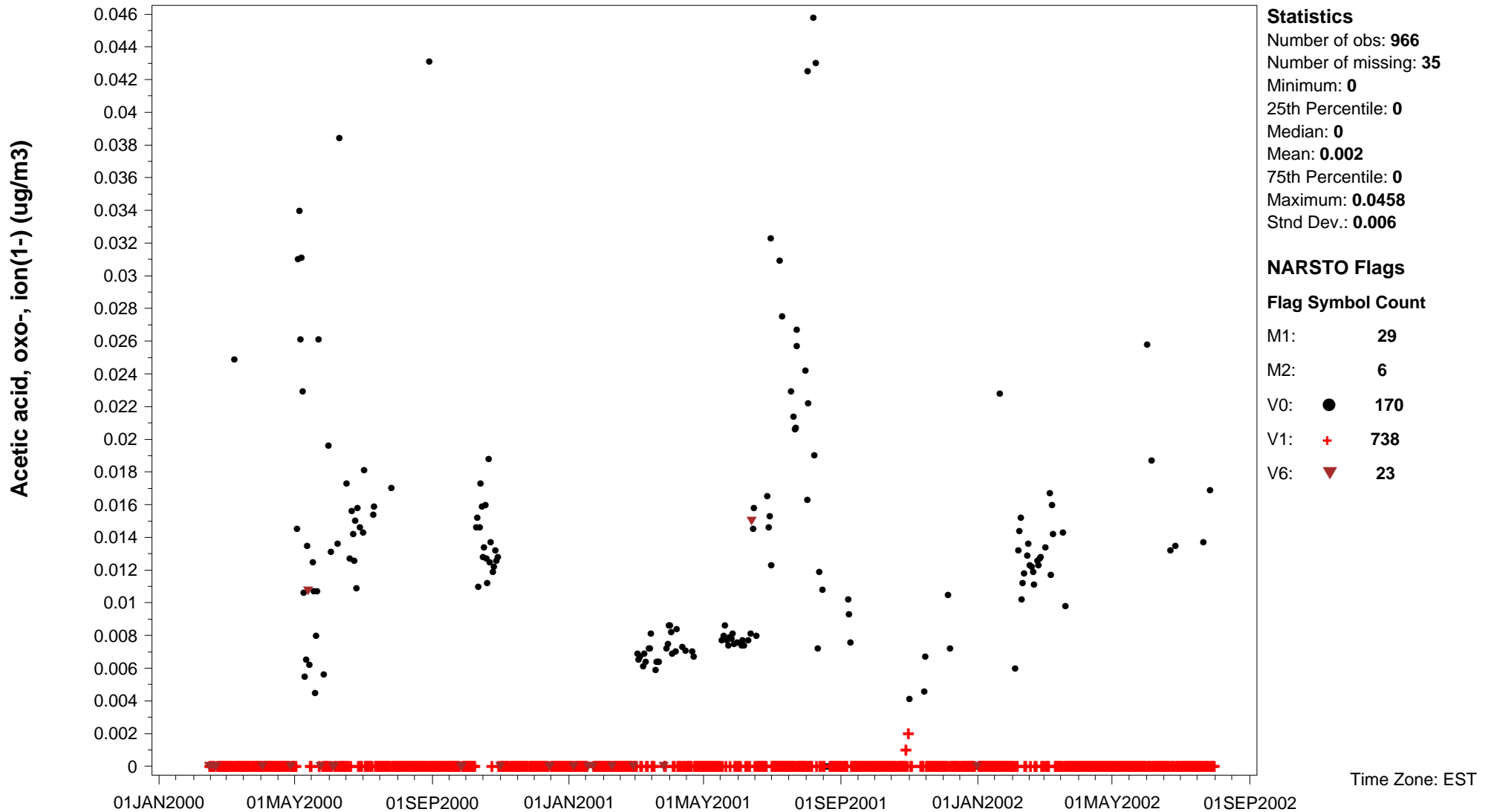
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Acetic acid, oxo-, ion(1-)** Common Name: **Glyoxylic** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C430-75-1** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**
 Blank Correction: **Blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**

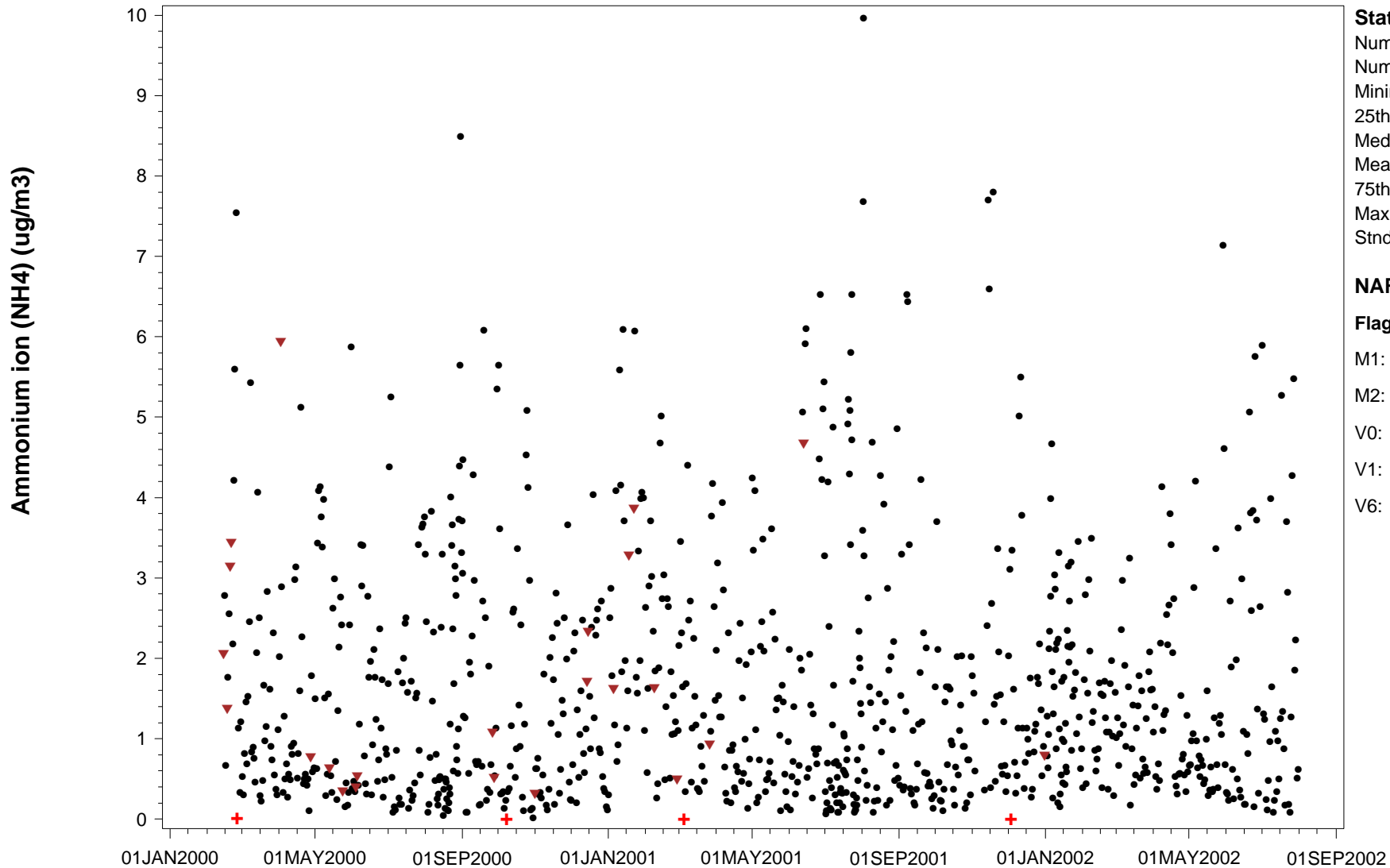


NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Ammonium ion (NH4)** Common Name: **NH4+** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C14798-03-9** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**
 Blank Correction: **Not blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **15**
 Minimum: **0**
 25th Percentile: **0.48**
 Median: **1.1**
 Mean: **1.595**
 75th Percentile: **2.25**
 Maximum: **9.96**
 Stnd Dev.: **1.503**

NARSTO Flags

Flag Symbol Count

M1:	7
M2:	8
V0:	● 924
V1:	+ 4
V6:	▼ 23

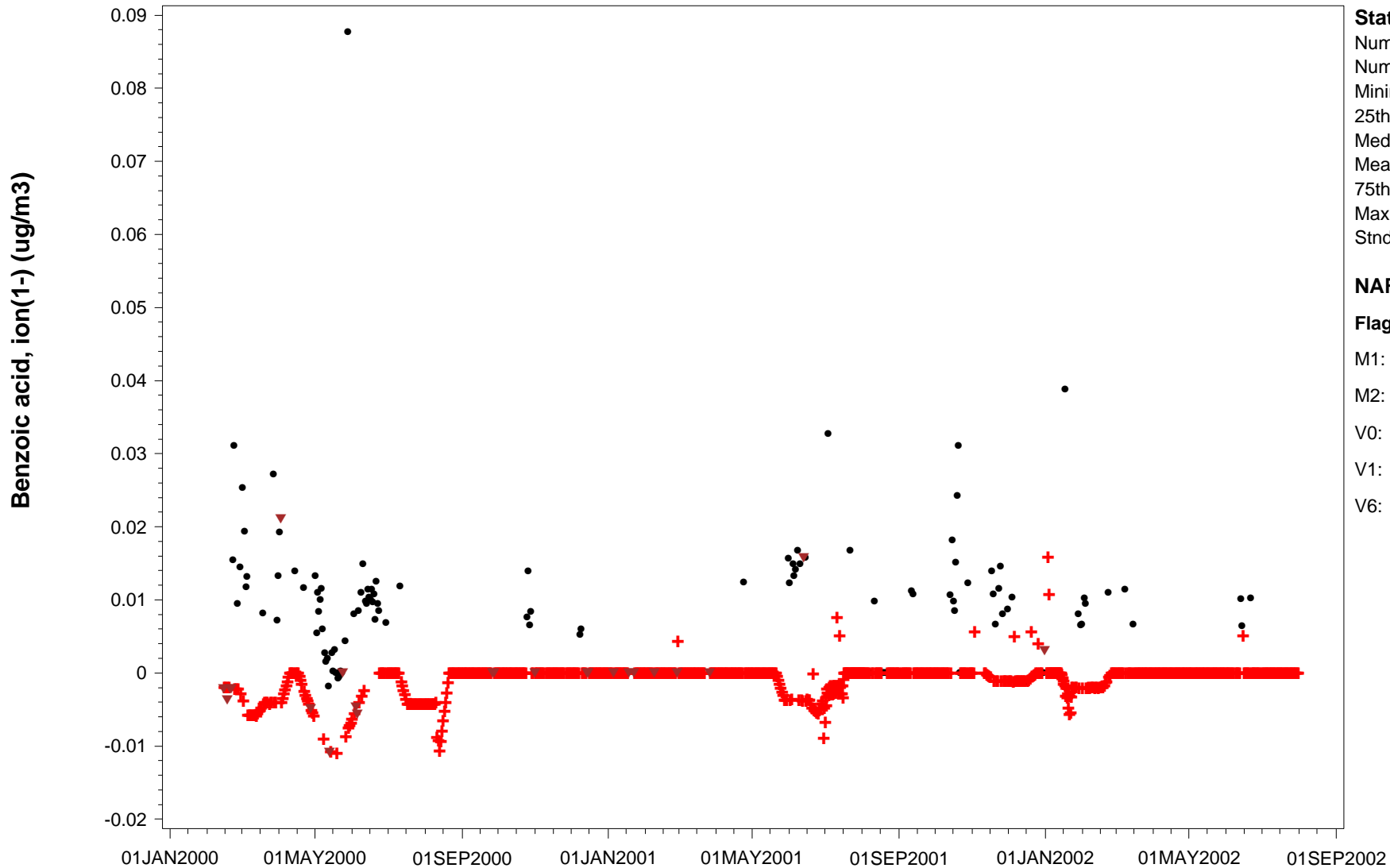
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Benzoic acid, ion(1-)** Common Name: **benzoic acid anion** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C766-76-7** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**
 Blank Correction: **Blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics
 Number of obs: **966**
 Number of missing: **35**
 Minimum: **-0.011**
 25th Percentile: **-0.0005**
 Median: **0**
 Mean: **0.001**
 75th Percentile: **0**
 Maximum: **0.0878**
 Stnd Dev.: **0.006**

NARSTO Flags
Flag Symbol Count
 M1: **27**
 M2: **8**
 V0: ● **111**
 V1: + **797**
 V6: ▼ **23**

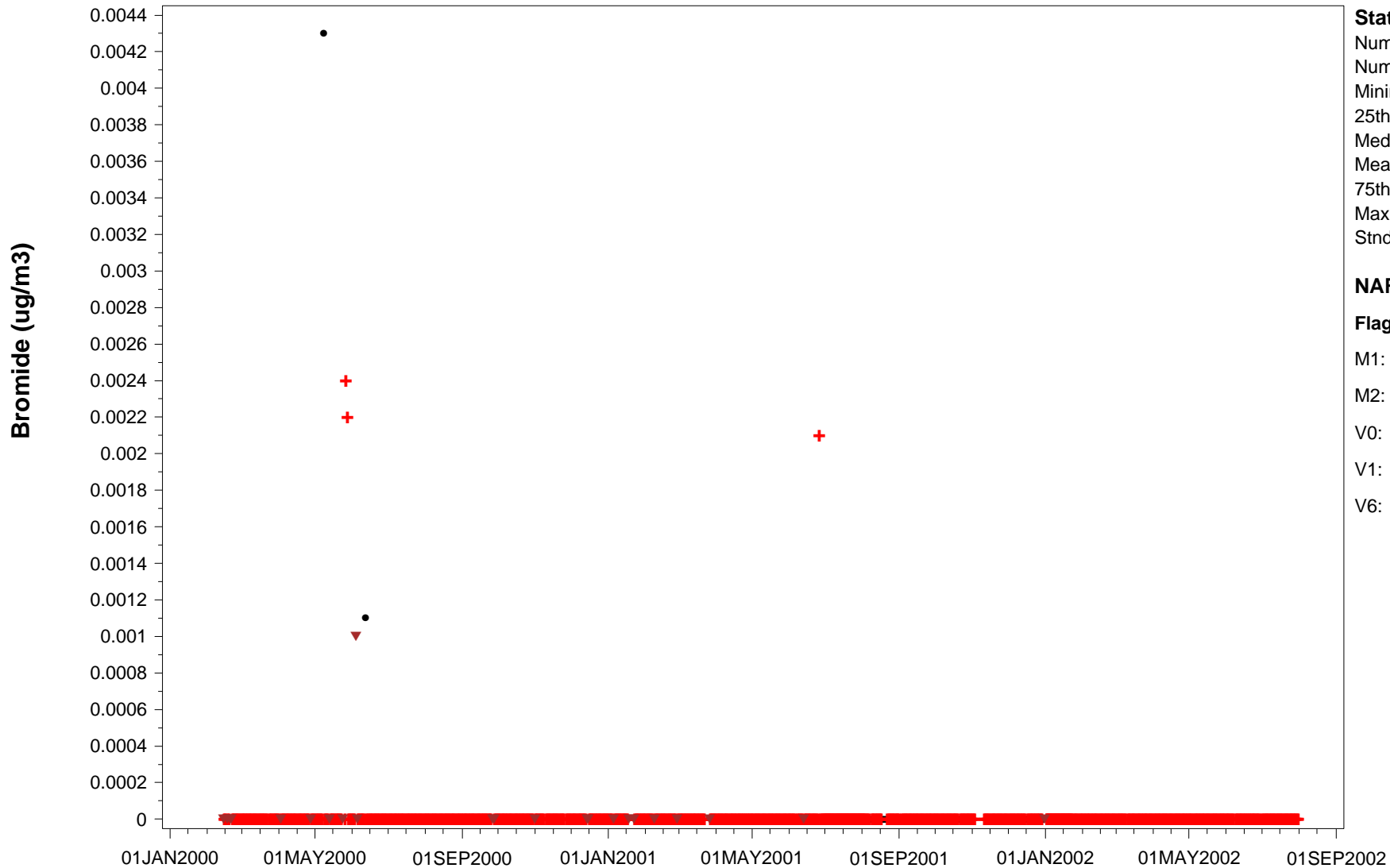
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Bromide** Units: **ug/m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**
 CAS ID: **C24959-67-9** Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Not blank corrected**
 Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **35**
 Minimum: **0**
 25th Percentile: **0**
 Median: **0**
 Mean: **0.000**
 75th Percentile: **0**
 Maximum: **0.0043**
 Stnd Dev.: **0.000**

NARSTO Flags

Flag Symbol Count

M1:		29
M2:		6
V0:	●	11
V1:	+	897
V6:	▼	23

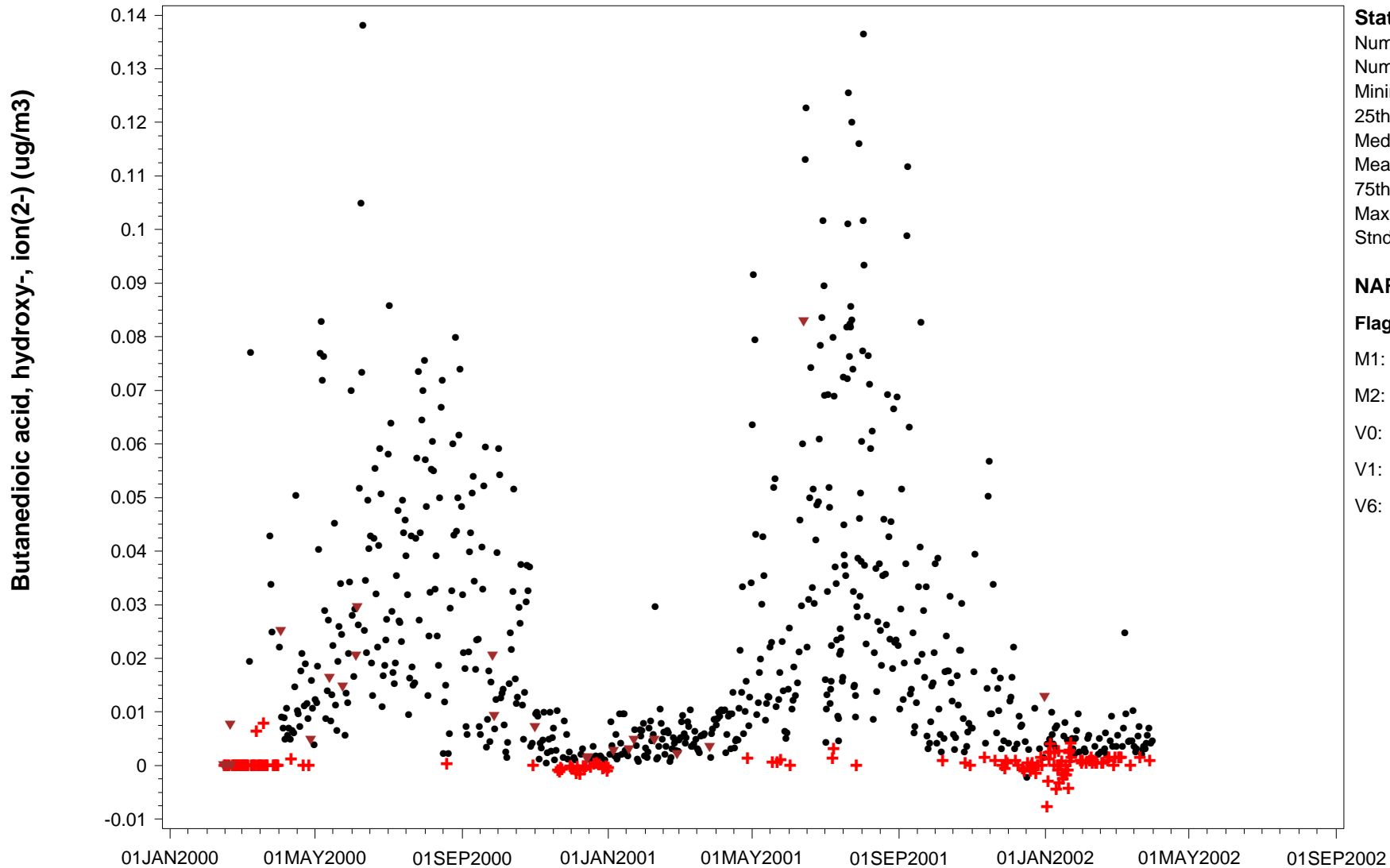
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Butanedioic acid, hydroxy-, ion(2-)** Common Name: **Malic** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C149-61-1** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Not blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **159**
 Minimum: **-0.0076**
 25th Percentile: **0.0027**
 Median: **0.0092**
 Mean: **0.019**
 75th Percentile: **0.027**
 Maximum: **0.1381**
 Stnd Dev.: **0.024**

NARSTO Flags

Flag Symbol Count

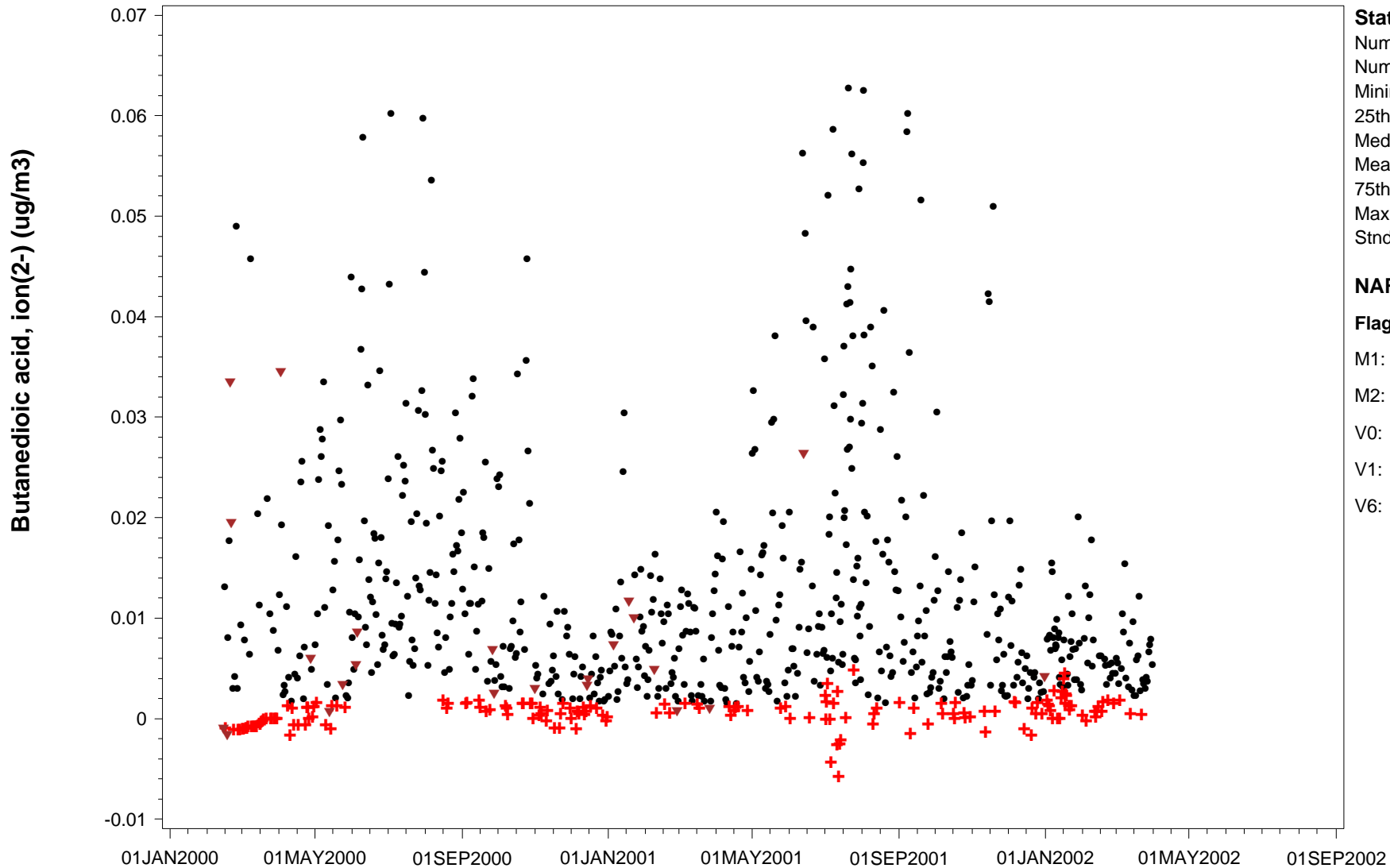
M1:		155
M2:		4
V0:	●	637
V1:	+	147
V6:	▼	23

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Butanedioic acid, ion(2-)** Common Name: **Succinic** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C56-14-4** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **159**
 Minimum: **-0.0057**
 25th Percentile: **0.0023**
 Median: **0.0063**
 Mean: **0.010**
 75th Percentile: **0.0132**
 Maximum: **0.0627**
 Stnd Dev.: **0.012**

NARSTO Flags

Flag Symbol Count

M1:		155
M2:		4
V0:	●	617
V1:	+	167
V6:	▼	23

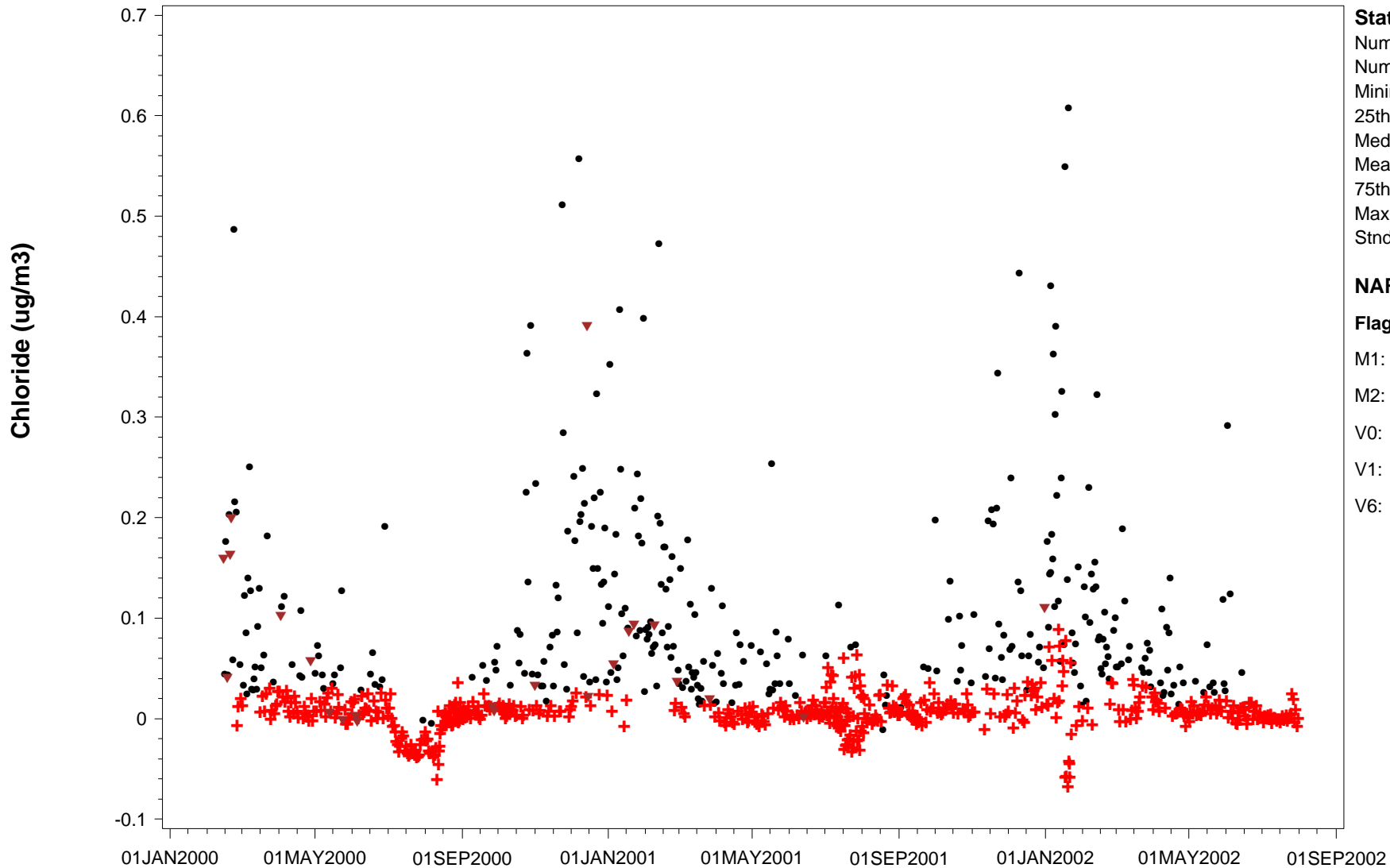
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Chloride** Units: **ug/m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**
 CAS ID: **C16887-00-6** Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**
 Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics
 Number of obs: **966**
 Number of missing: **15**
 Minimum: **-0.0679**
 25th Percentile: **0.0027**
 Median: **0.014**
 Mean: **0.043**
 75th Percentile: **0.0513**
 Maximum: **0.608**
 Stnd Dev.: **0.080**

NARSTO Flags
Flag Symbol Count
 M1: **7**
 M2: **8**
 V0: ● **334**
 V1: + **594**
 V6: ▼ **23**

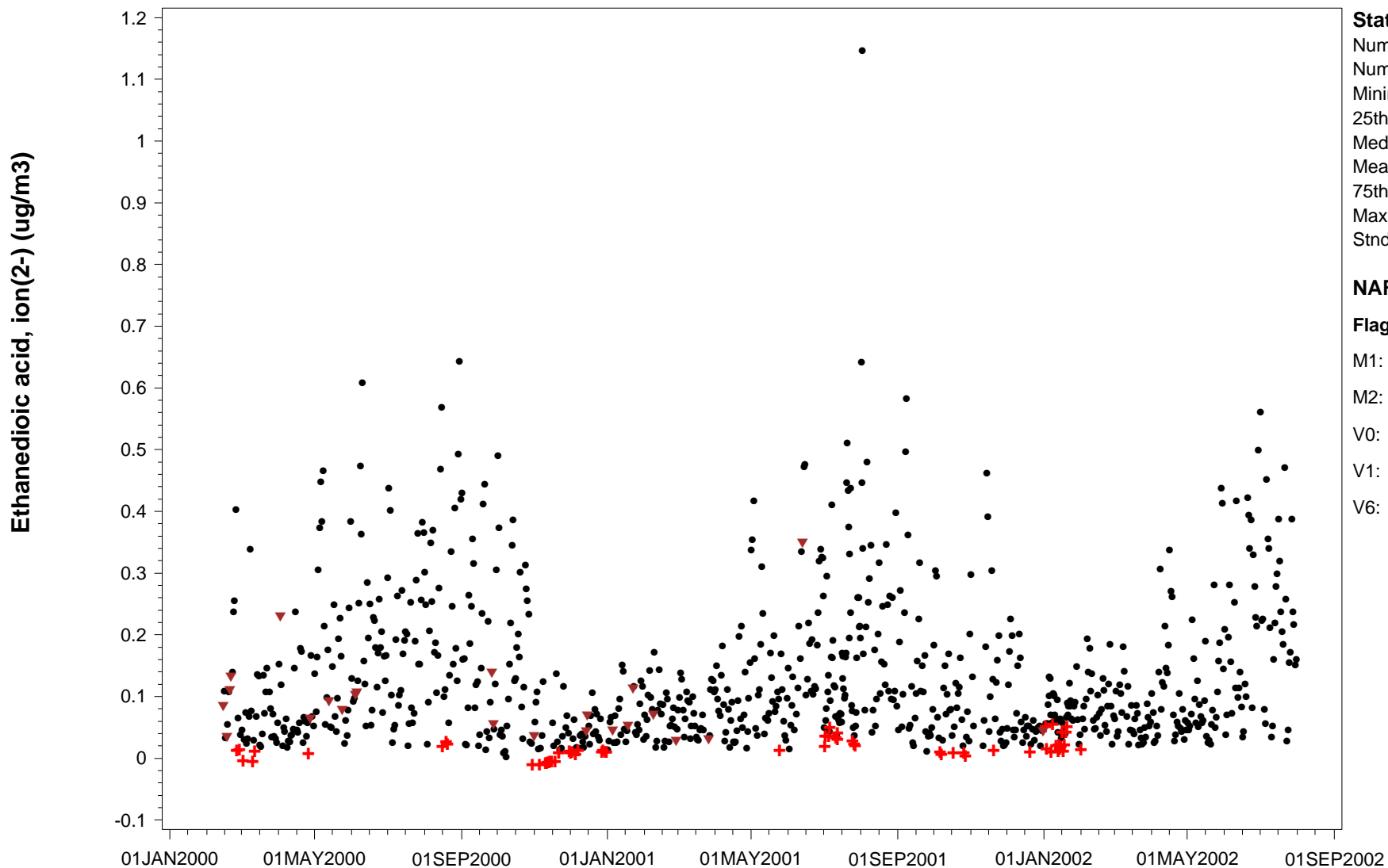
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Ethanedioic acid, ion(2-)** Common Name: **Oxalic acid, ion** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C338-70-5** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**
 Blank Correction: **Blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **35**
 Minimum: **-0.0099**
 25th Percentile: **0.0446**
 Median: **0.0845**
 Mean: **0.126**
 75th Percentile: **0.1672**
 Maximum: **1.1469**
 Stnd Dev.: **0.120**

NARSTO Flags

Flag Symbol Count

M1:		27
M2:		8
V0:	●	847
V1:	+	61
V6:	▼	23

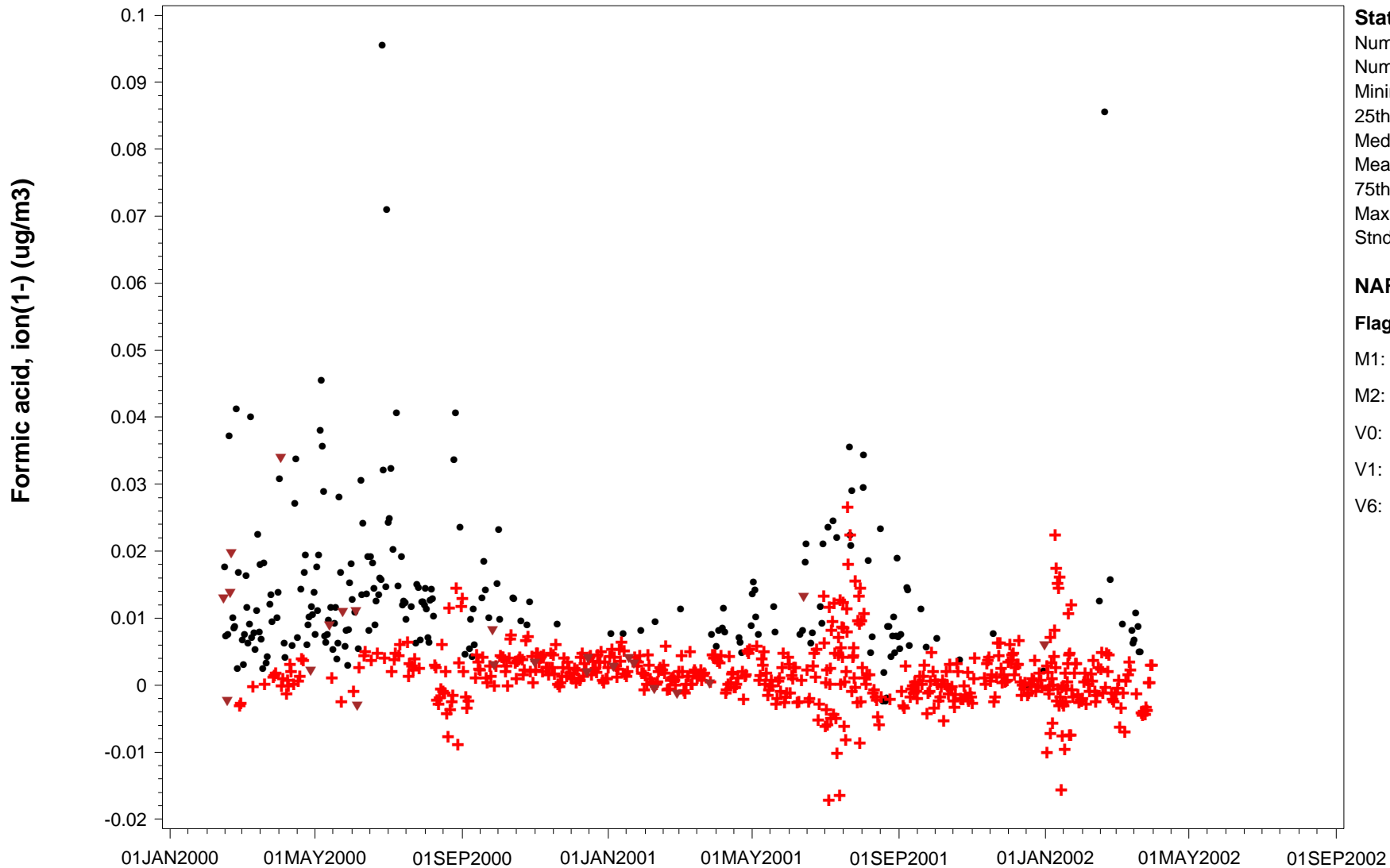
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Formic acid, ion(1-)** Common Name: **Formate** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C71-47-6** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **159**
 Minimum: **-0.0172**
 25th Percentile: **0.0002**
 Median: **0.0029**
 Mean: **0.005**
 75th Percentile: **0.0077**
 Maximum: **0.0955**
 Std Dev.: **0.009**

NARSTO Flags

Flag Symbol Count

M1:		155
M2:		4
V0:	●	227
V1:	+	557
V6:	▼	23

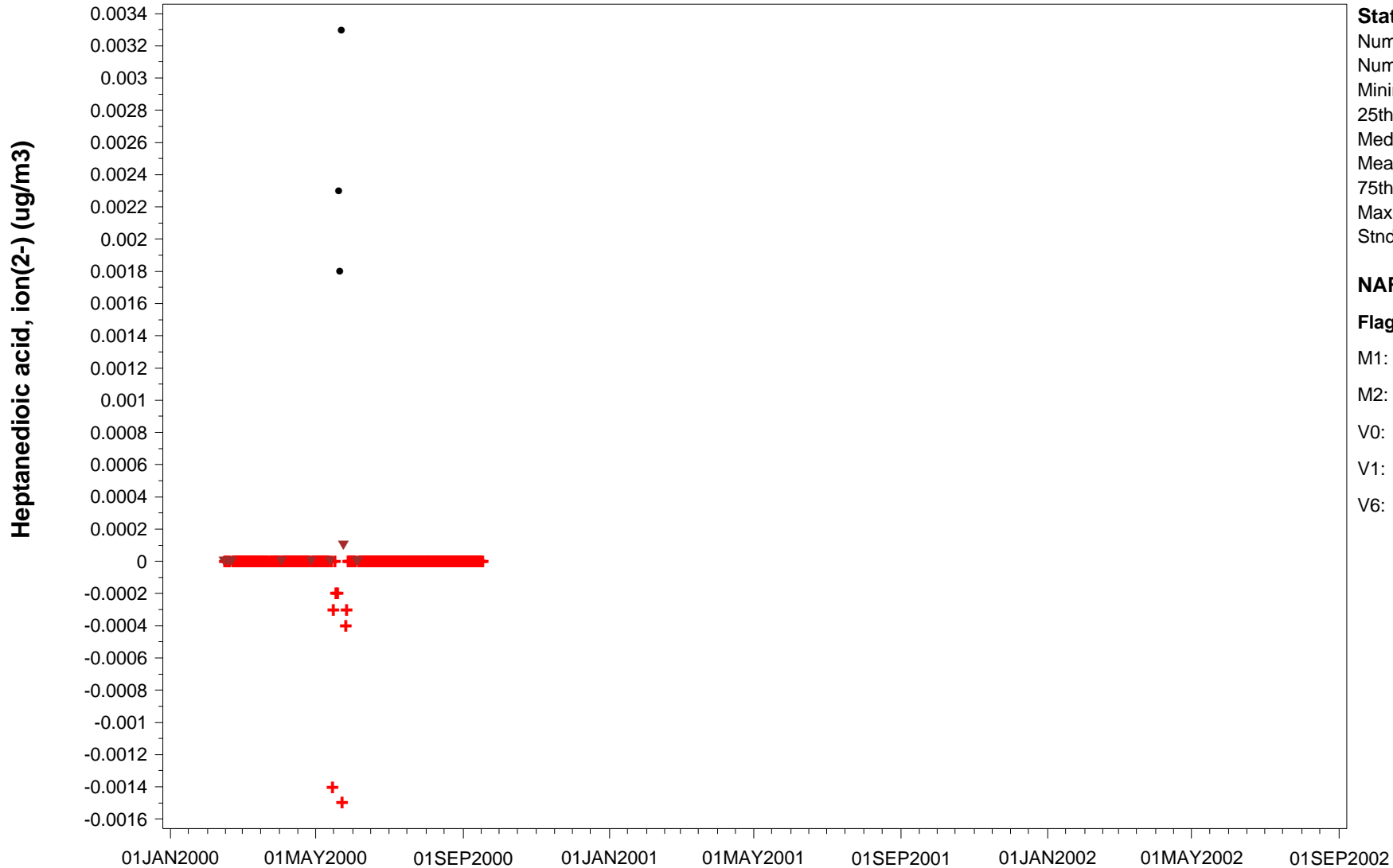
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Heptanedioic acid, ion(2-)** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C764-54-5** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Not blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **751**
 Minimum: **-0.0015**
 25th Percentile: **0**
 Median: **0**
 Mean: **0.000**
 75th Percentile: **0**
 Maximum: **0.0033**
 Stnd Dev.: **0.000**

NARSTO Flags

Flag Symbol Count

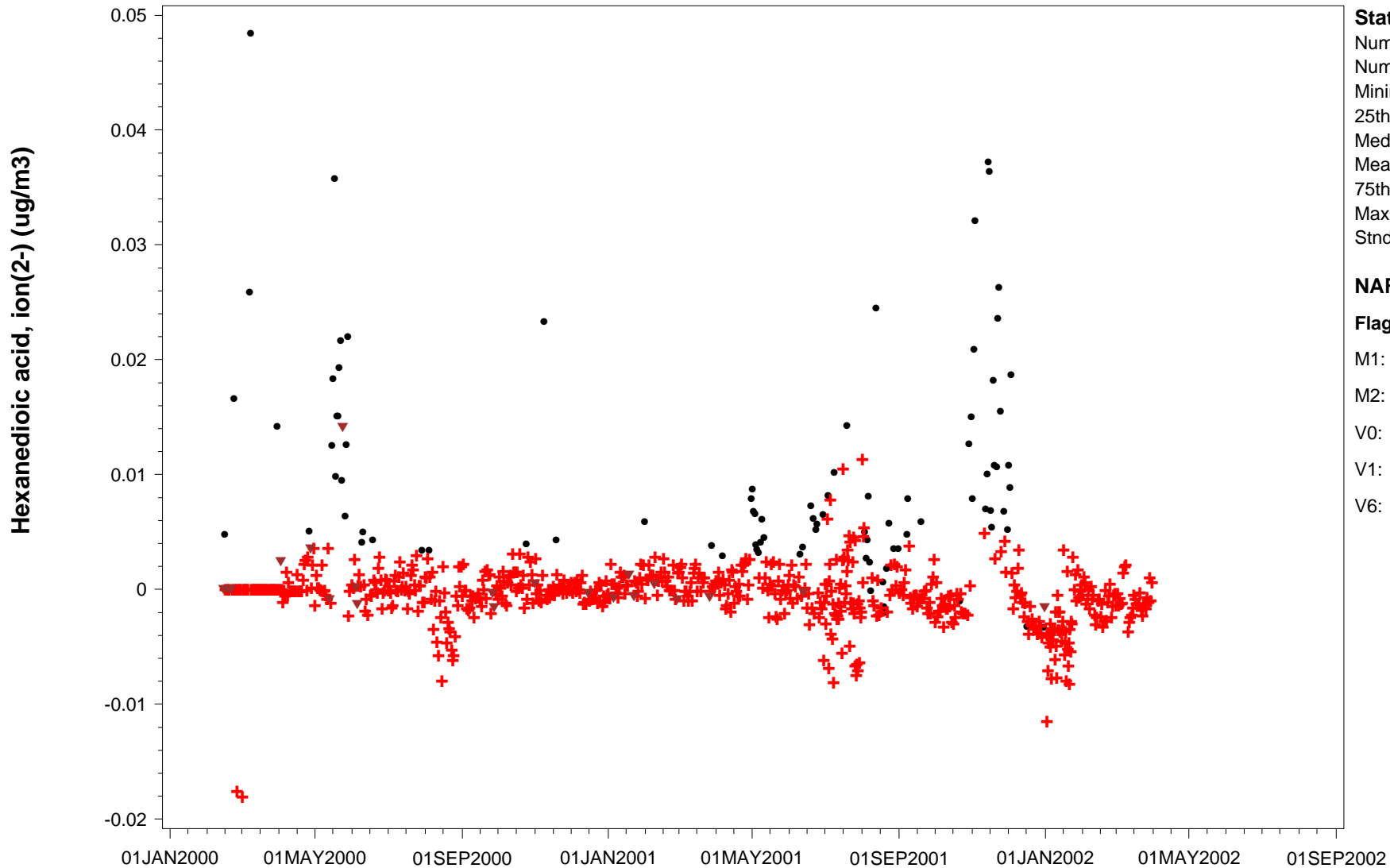
M1:		750
M2:		1
V0:	●	3
V1:	+	202
V6:	▼	10

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Hexanedioic acid, ion(2-)** Common Name: **Adipic** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C764-65-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics
 Number of obs: **966**
 Number of missing: **163**
 Minimum: **-0.0181**
 25th Percentile: **-0.0012**
 Median: **-0.0001**
 Mean: **0.001**
 75th Percentile: **0.0012**
 Maximum: **0.0484**
 Stnd Dev.: **0.005**

NARSTO Flags
Flag Symbol Count
 M1: **159**
 M2: **4**
 V0: ● **92**
 V1: + **689**
 V6: ▼ **22**

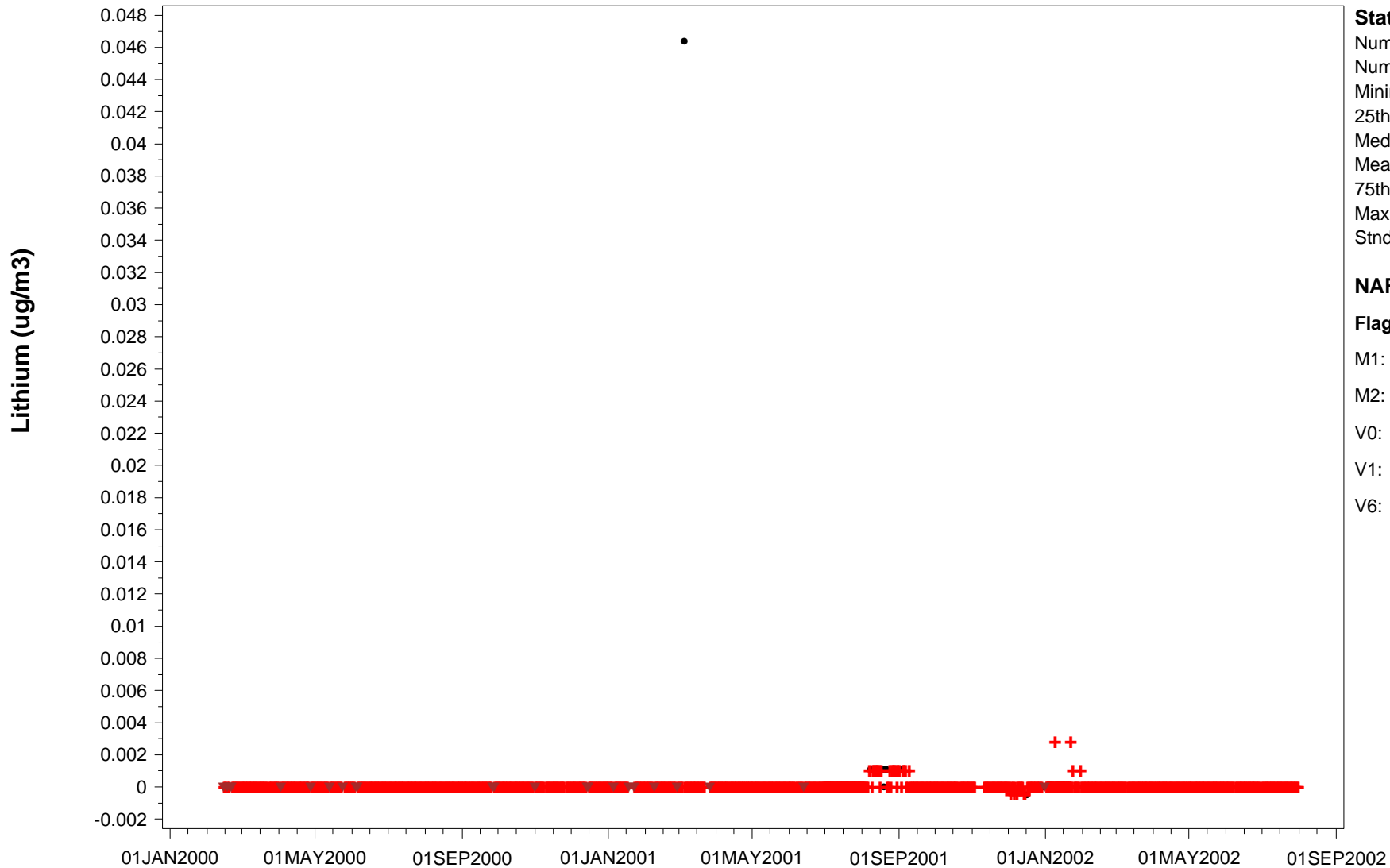
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Lithium** Units: **ug/m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**
 CAS ID: **C7439-93-2** Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Not blank corrected**
 Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **35**
 Minimum: **-0.0005**
 25th Percentile: **0**
 Median: **0**
 Mean: **0.000**
 75th Percentile: **0**
 Maximum: **0.0464**
 Stnd Dev.: **0.002**

NARSTO Flags

Flag Symbol Count

M1:		27
M2:		8
V0:	●	10
V1:	+	898
V6:	▼	23

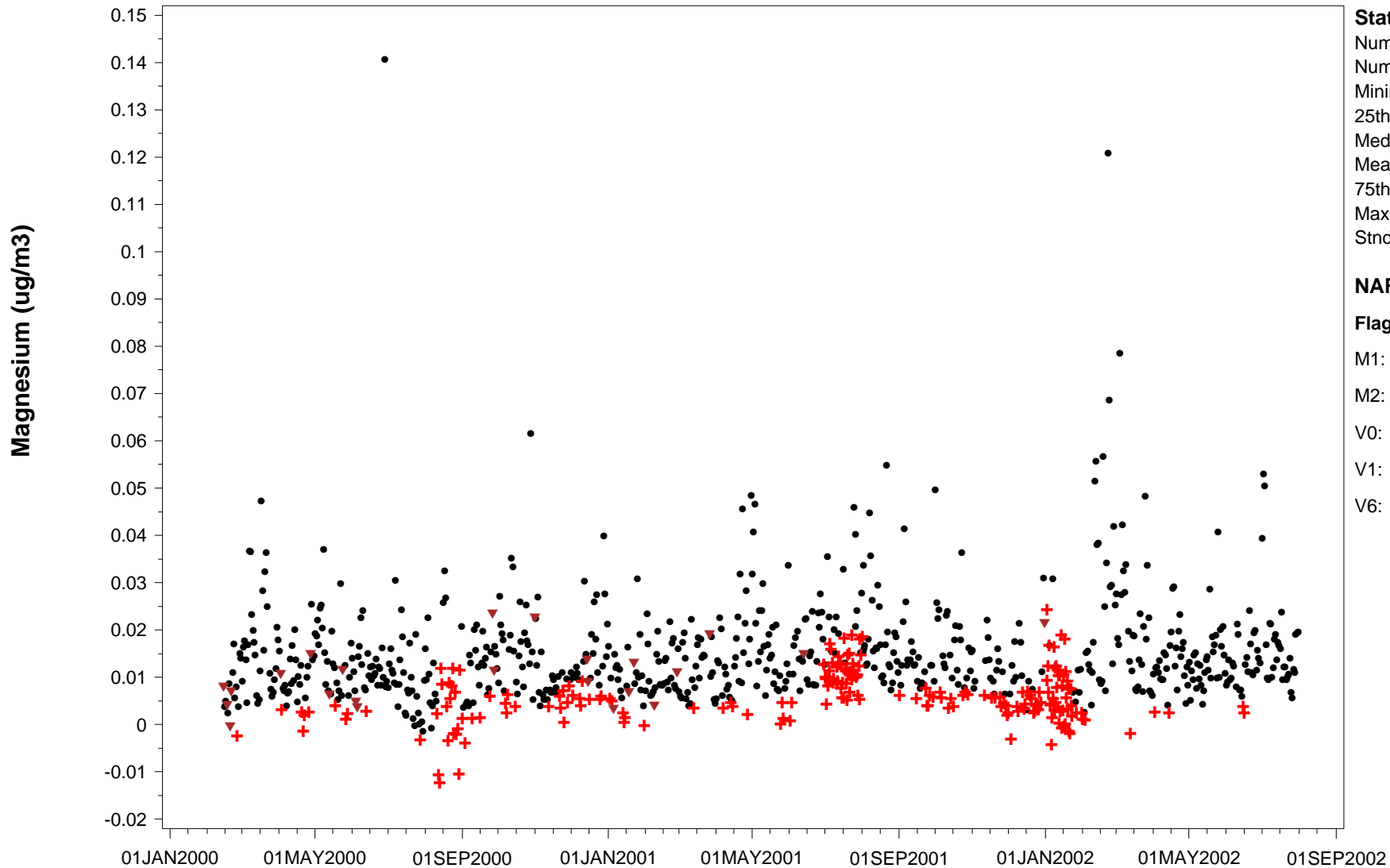
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Magnesium** Units: **ug/m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**
 CAS ID: **C7439-95-4** Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**
 Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics
 Number of obs: **966**
 Number of missing: **35**
 Minimum: **-0.0124**
 25th Percentile: **0.007**
 Median: **0.0113**
 Mean: **0.013**
 75th Percentile: **0.0169**
 Maximum: **0.1406**
 Stnd Dev.: **0.011**

NARSTO Flags
Flag Symbol Count

M1:	27
M2:	8
V0: ●	703
V1: +	205
V6: ▼	23

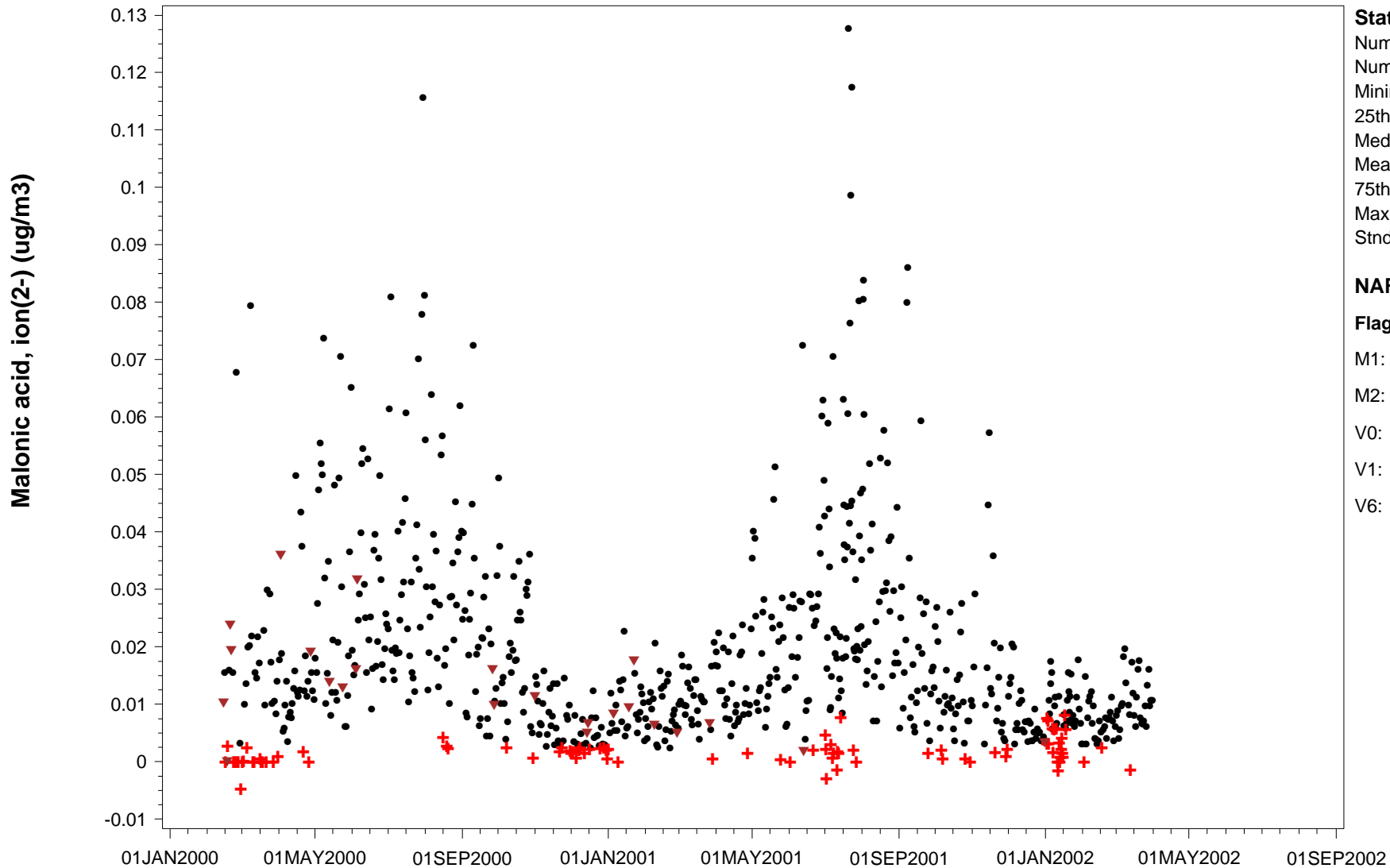
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Malonic acid, ion(2-)** Common Name: **Malonic** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C156-80-9** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Not blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **156**
 Minimum: **-0.0048**
 25th Percentile: **0.0065**
 Median: **0.01235**
 Mean: **0.018**
 75th Percentile: **0.0226**
 Maximum: **0.1277**
 Stnd Dev.: **0.017**

NARSTO Flags

Flag Symbol Count

M1:		152
M2:		4
V0:	●	699
V1:	+	88
V6:	▼	23

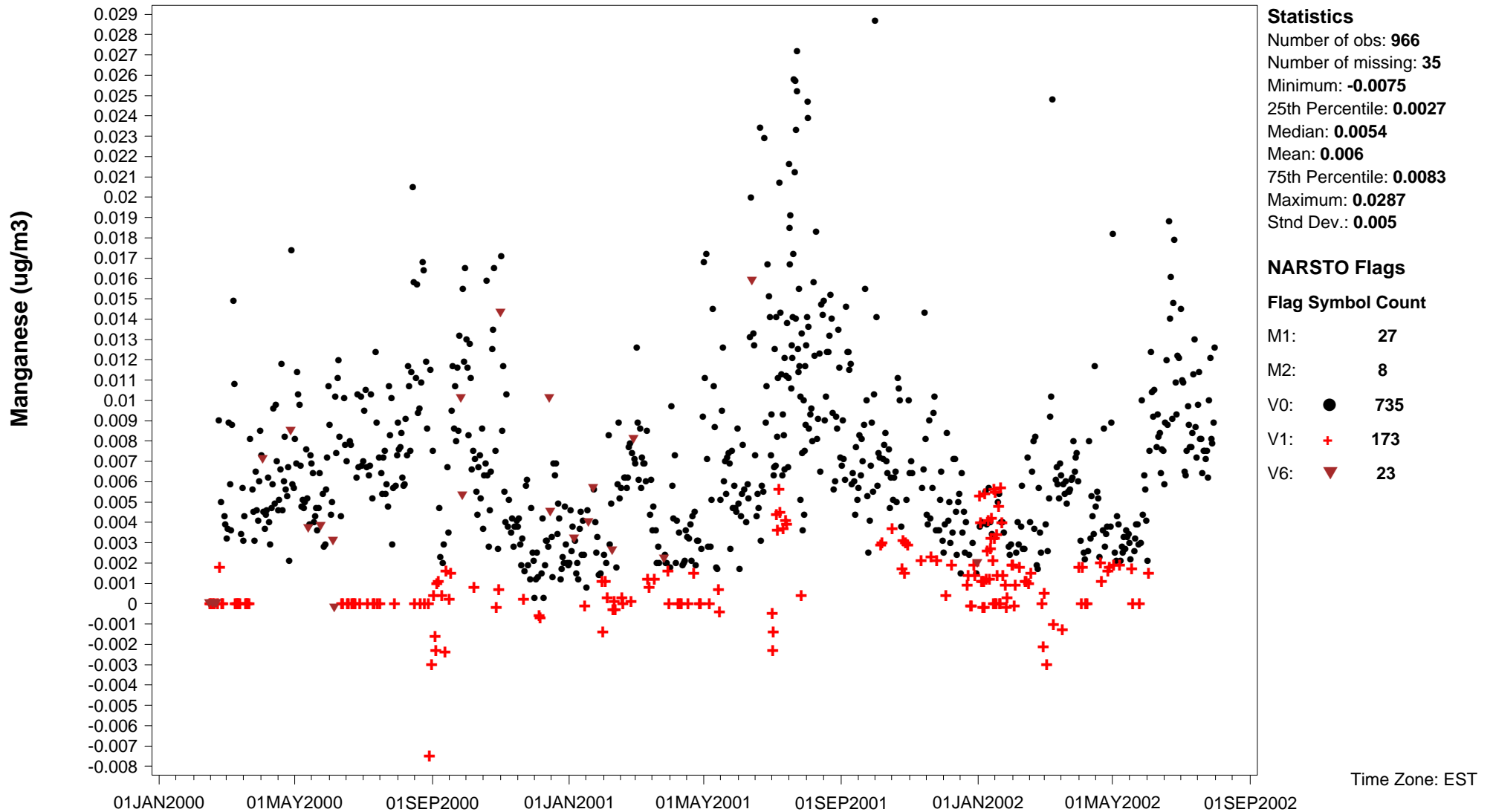
Time Zone: EST

NAAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Manganese** Units: **ug/m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**
 CAS ID: **C7439-96-5** Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**
 Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



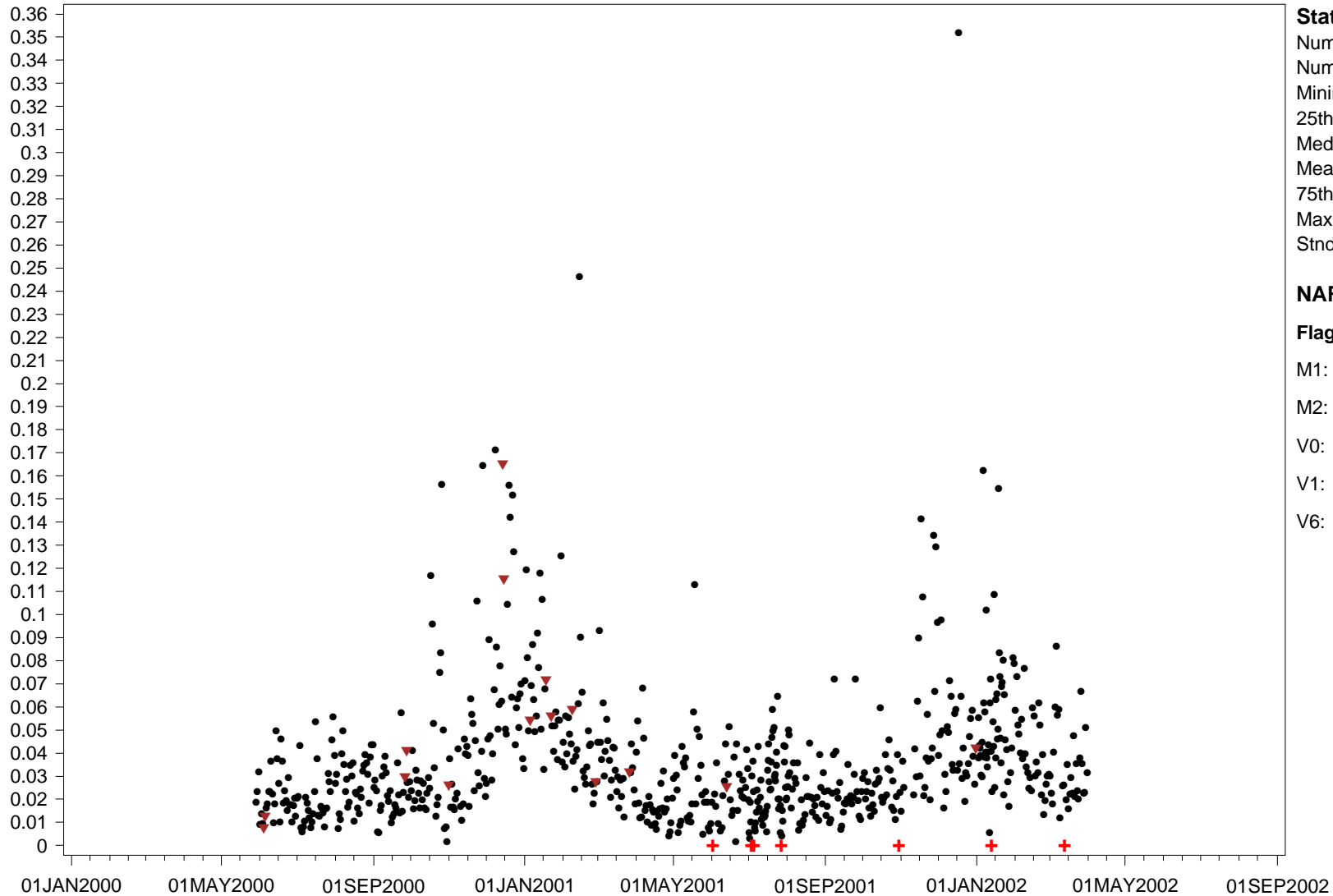
NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Methanesulfonic acid, hydroxy-, ion(1-)** Common Name: **HMSA** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C7494-19-1** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Not blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**

Methanesulfonic acid, hydroxy-, ion(1-) (ug/m3)



Statistics

Number of obs: **966**
 Number of missing: **258**
 Minimum: **0**
 25th Percentile: **0.018**
 Median: **0.02905**
 Mean: **0.036**
 75th Percentile: **0.04375**
 Maximum: **0.3519**
 Stnd Dev.: **0.030**

NARSTO Flags

Flag Symbol Count

M1:		255
M2:		3
V0:	●	686
V1:	+	7
V6:	▼	15

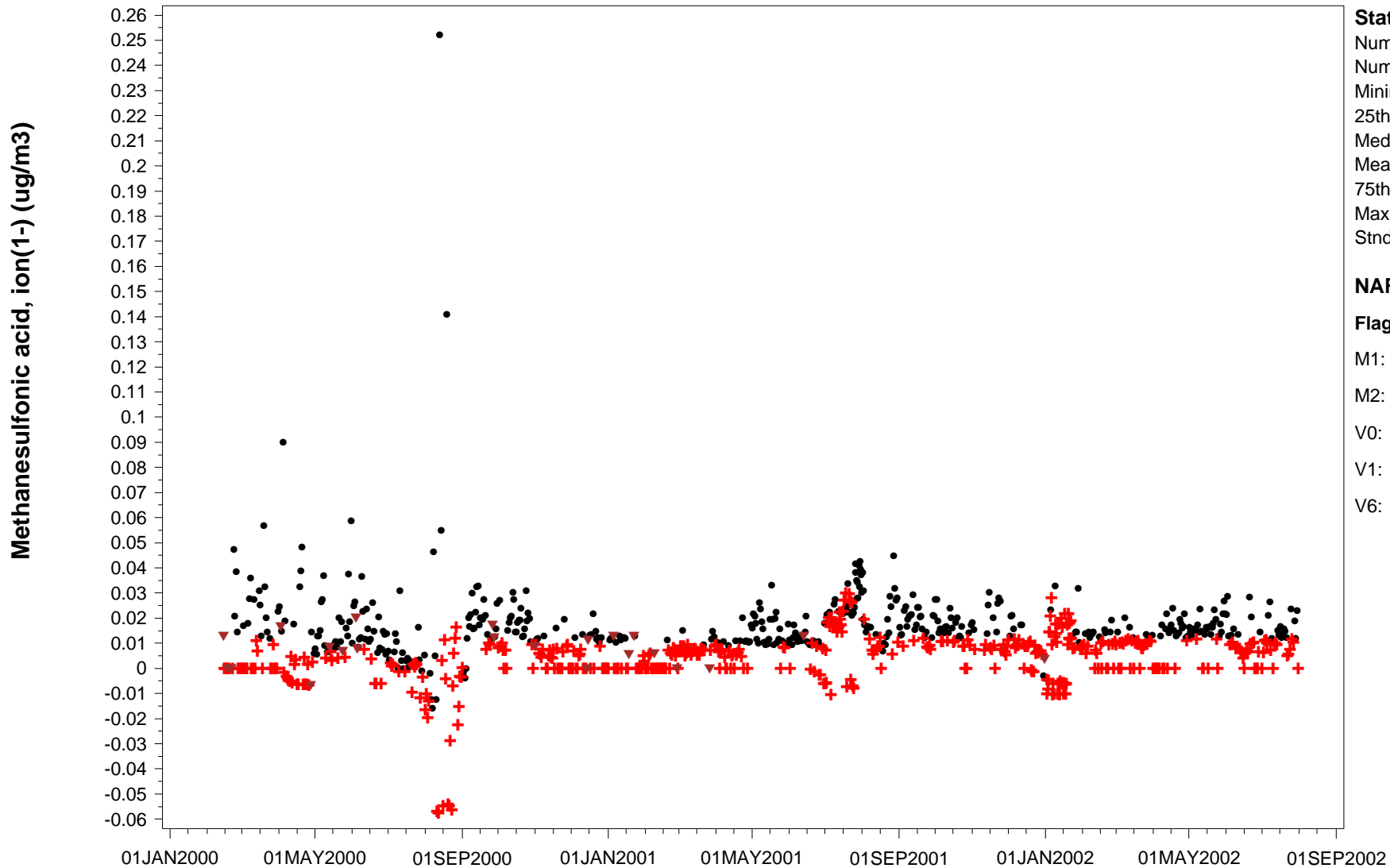
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Methanesulfonic acid, ion(1-)** Common Name: **MSA** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C16053-58-0** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**
 Blank Correction: **Blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **35**
 Minimum: **-0.0576**
 25th Percentile: **0.0034**
 Median: **0.0104**
 Mean: **0.011**
 75th Percentile: **0.0166**
 Maximum: **0.2521**
 Stnd Dev.: **0.015**

NARSTO Flags

Flag Symbol Count

M1:		29
M2:		6
V0:	●	441
V1:	+	467
V6:	▼	23

Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Nitrate** Units: **ug/m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**

CAS ID: **C14797-55-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**

Field sampling or measurement principle: **Single filter** Medium: **Nylon** Inlet type: **Impactor--virtual/concentrator**

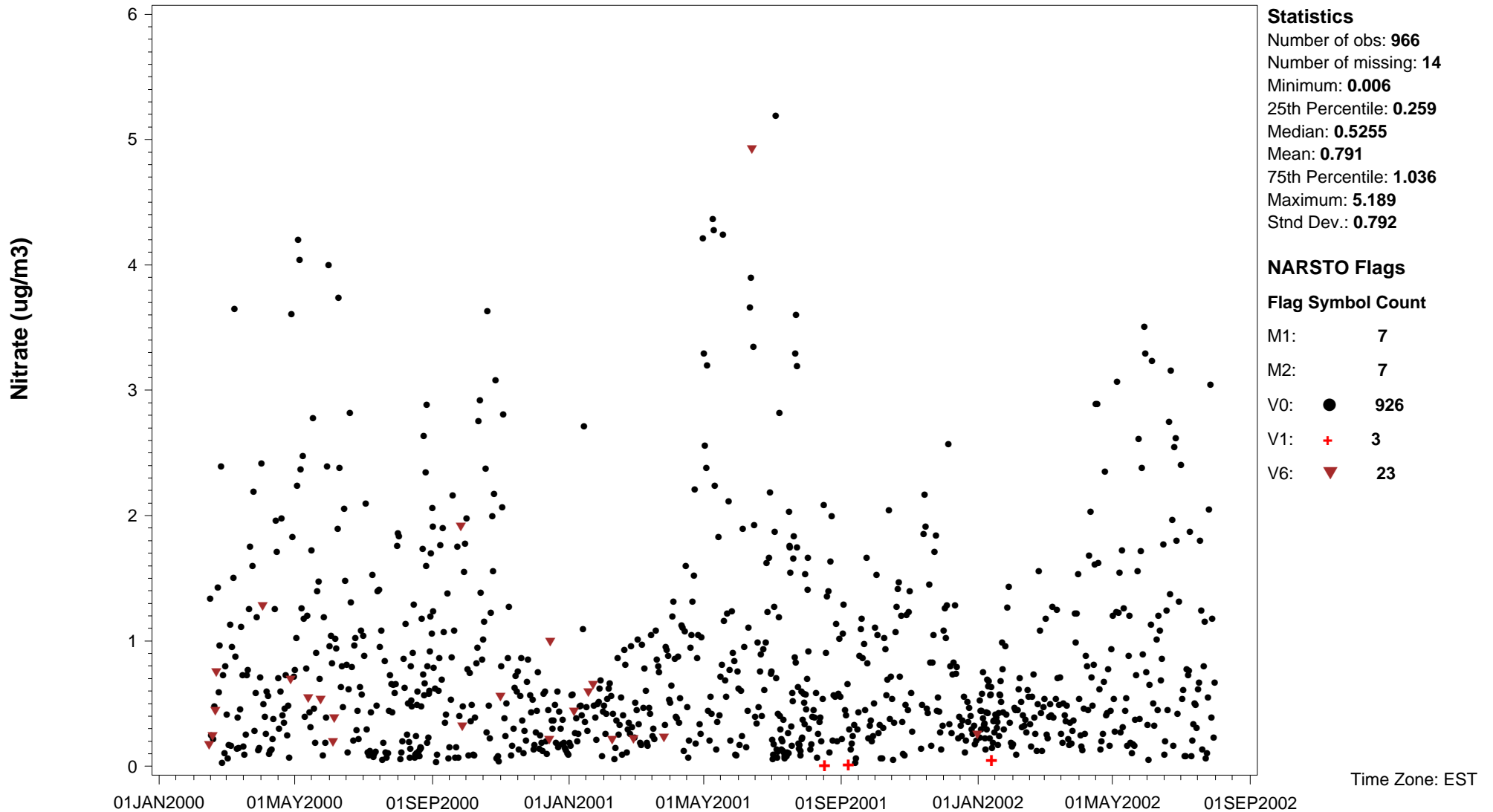
Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Not blank corrected**

Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**

Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**

Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**

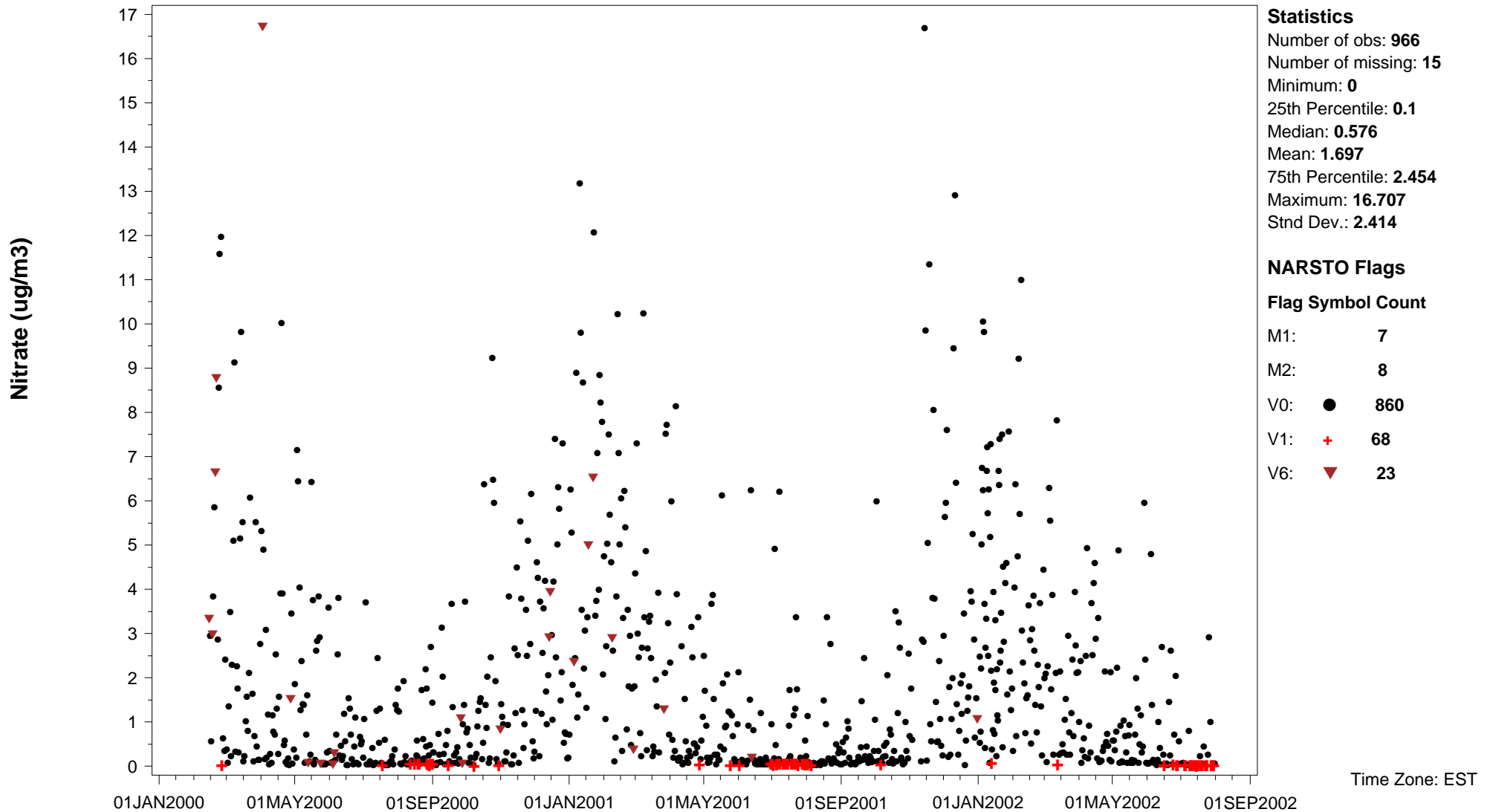


NAAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Nitrate** Units: **ug/m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**
 CAS ID: **C14797-55-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Not blank corrected**
 Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**

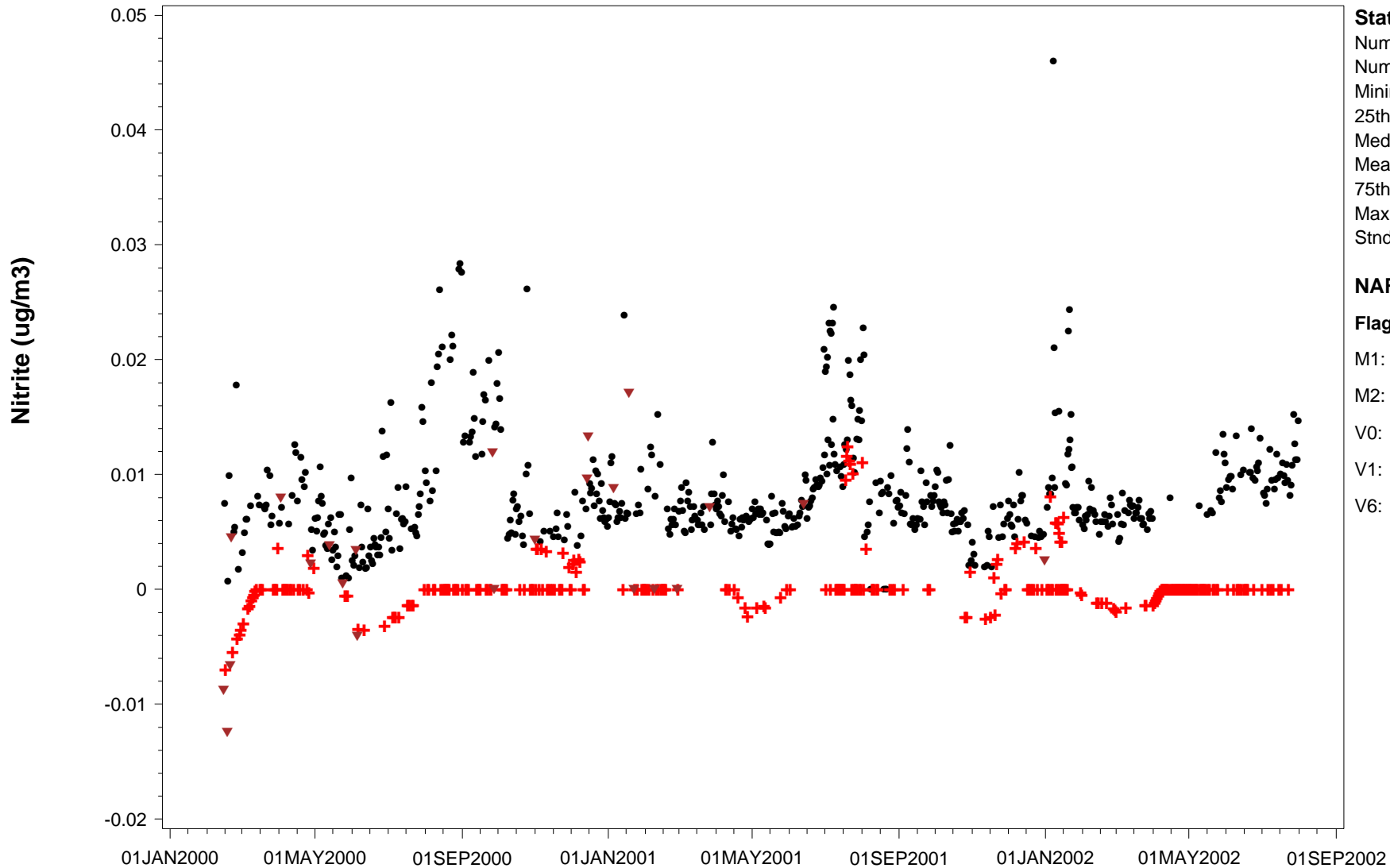


NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Nitrite** Units: **ug/m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**
 CAS ID: **C14797-65-0** Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**
 Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **35**
 Minimum: **-0.0124**
 25th Percentile: **0**
 Median: **0.0057**
 Mean: **0.006**
 75th Percentile: **0.0082**
 Maximum: **0.046**
 Stnd Dev.: **0.006**

NARSTO Flags

Flag Symbol Count

M1:	29
M2:	6
V0:	● 598
V1:	+ 310
V6:	▼ 23

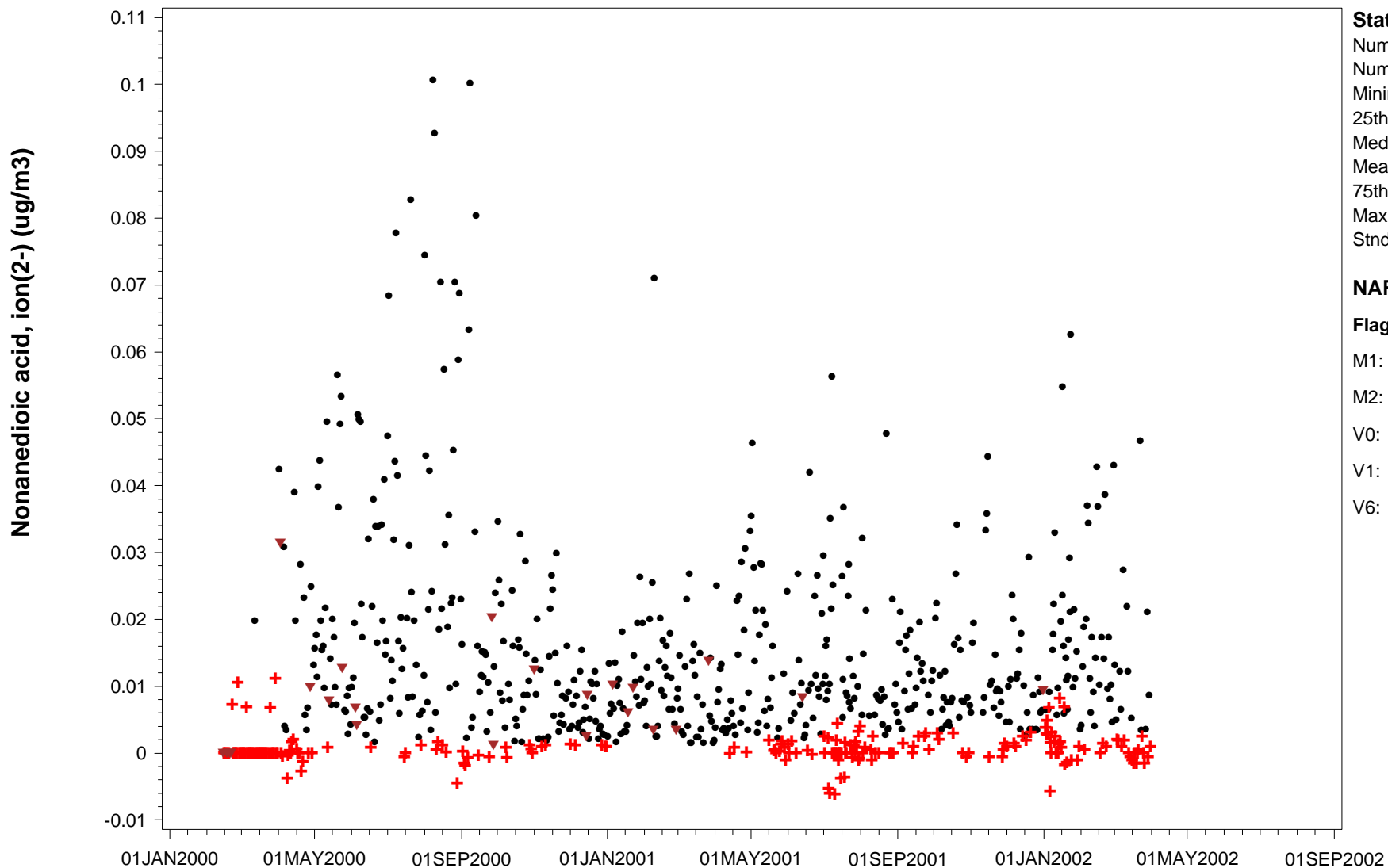
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Nonanedioic acid, ion(2-)** Common Name: **Azelaic** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C13479-16-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Not blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **173**
 Minimum: **-0.0061**
 25th Percentile: **0.0021**
 Median: **0.0073**
 Mean: **0.012**
 75th Percentile: **0.0155**
 Maximum: **0.1007**
 Stnd Dev.: **0.015**

NARSTO Flags

Flag Symbol Count

M1:		169
M2:		4
V0:	●	556
V1:	+	214
V6:	▼	23

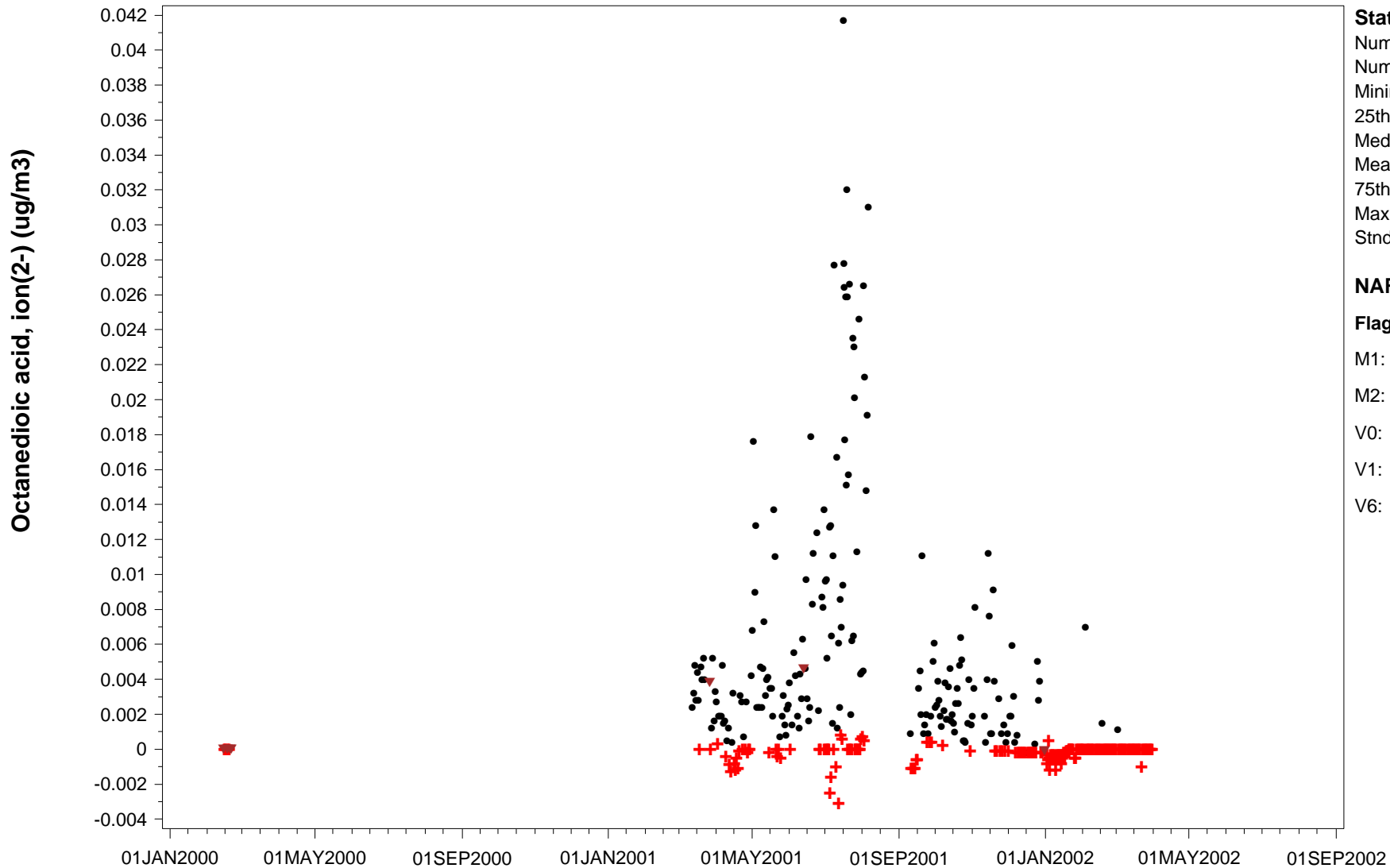
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Octanedioic acid, ion(2-)** Common Name: **Suberic** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C764-55-6** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **574**
 Minimum: **-0.0031**
 25th Percentile: **0**
 Median: **0.0004**
 Mean: **0.003**
 75th Percentile: **0.0035**
 Maximum: **0.0417**
 Stnd Dev.: **0.006**

NARSTO Flags

Flag Symbol Count

M1:		571
M2:		3
V0:	●	192
V1:	+	193
V6:	▼	7

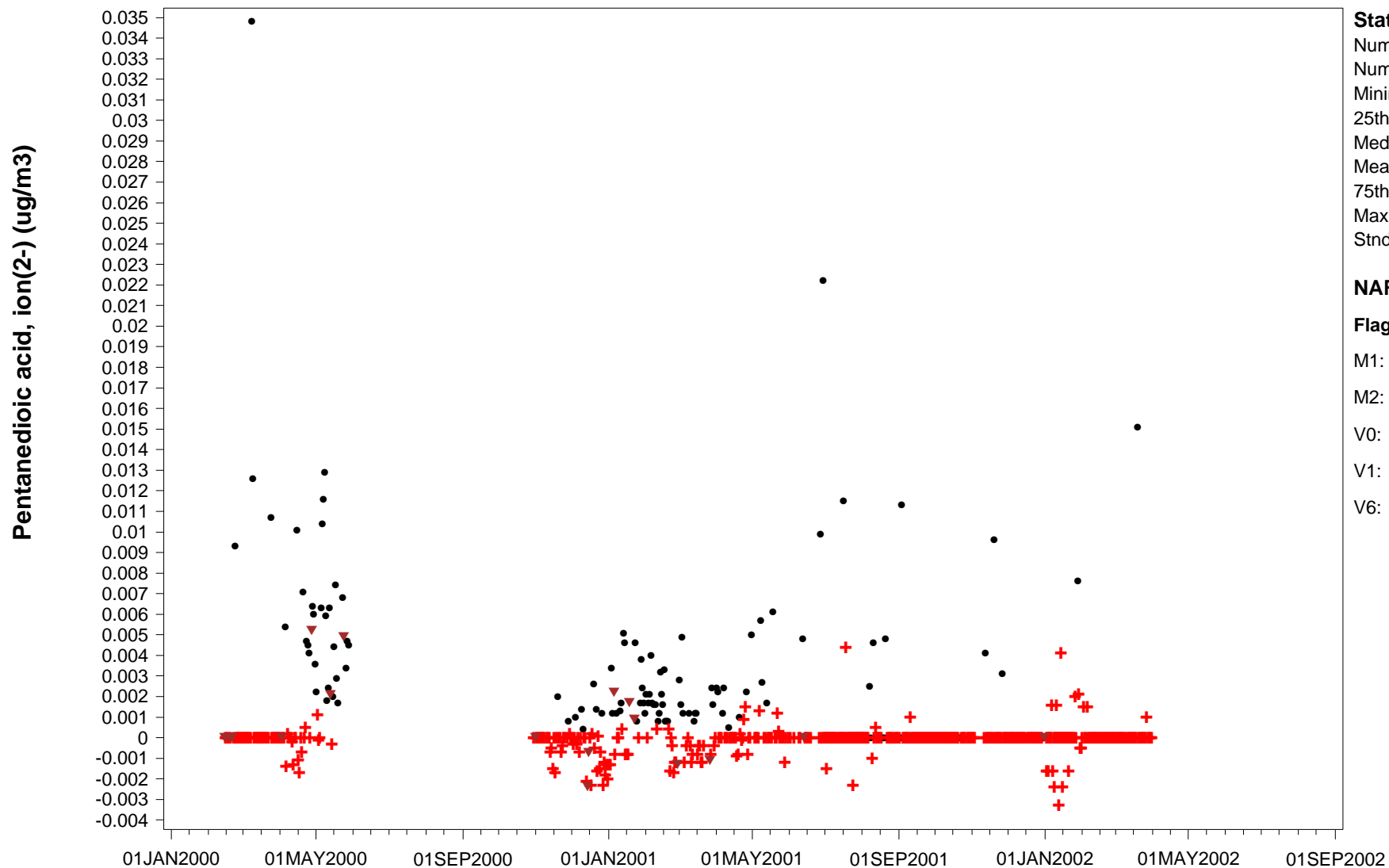
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Pentanedioic acid, ion(2-)** Common Name: **Glutaric** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C56-16-6** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Not blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **349**
 Minimum: **-0.0033**
 25th Percentile: **0**
 Median: **0**
 Mean: **0.001**
 75th Percentile: **0**
 Maximum: **0.0348**
 Stnd Dev.: **0.003**

NARSTO Flags

Flag Symbol Count

M1:		345
M2:		4
V0:	●	112
V1:	+	487
V6:	▼	18

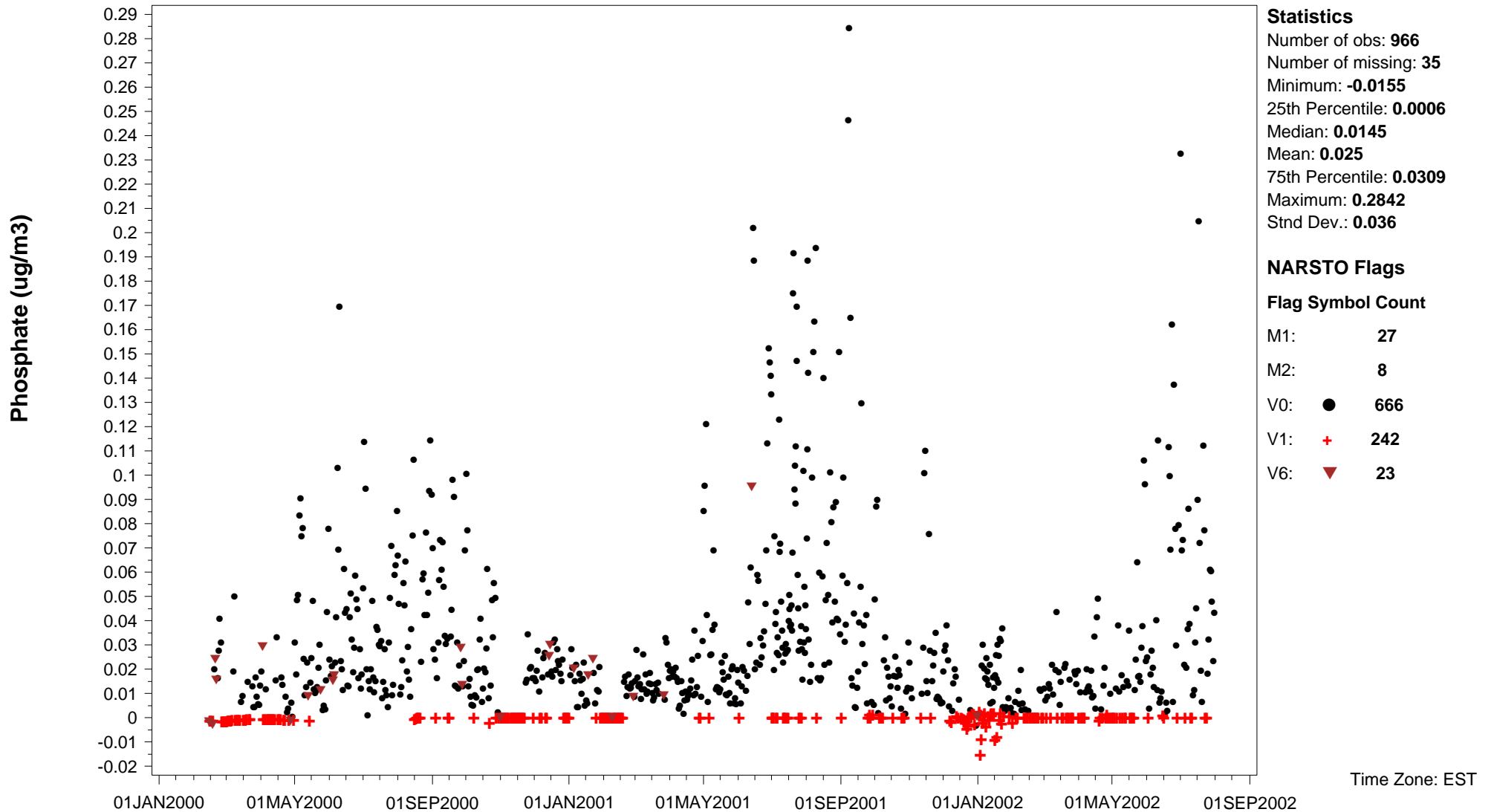
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Phosphate** Common Name: **Phosphate** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C14265-44-2** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**
 Blank Correction: **Blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**

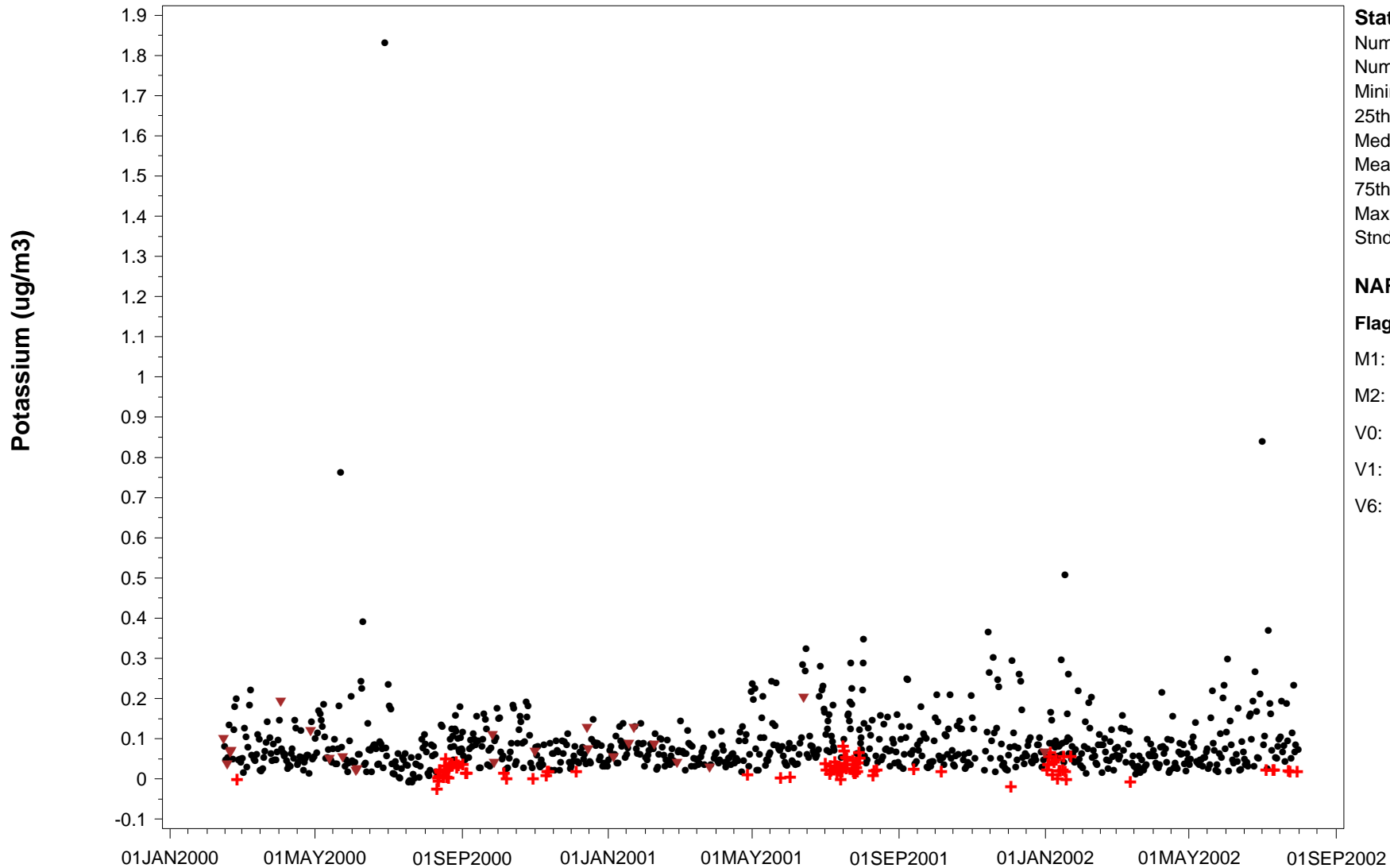


NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Potassium** Units: **ug/m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**
 CAS ID: **C7440-09-7** Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**
 Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **15**
 Minimum: **-0.024**
 25th Percentile: **0.039**
 Median: **0.062**
 Mean: **0.082**
 75th Percentile: **0.098**
 Maximum: **1.831**
 Stnd Dev.: **0.090**

NARSTO Flags

Flag Symbol Count

M1:		7
M2:		8
V0:	●	828
V1:	+	100
V6:	▼	23

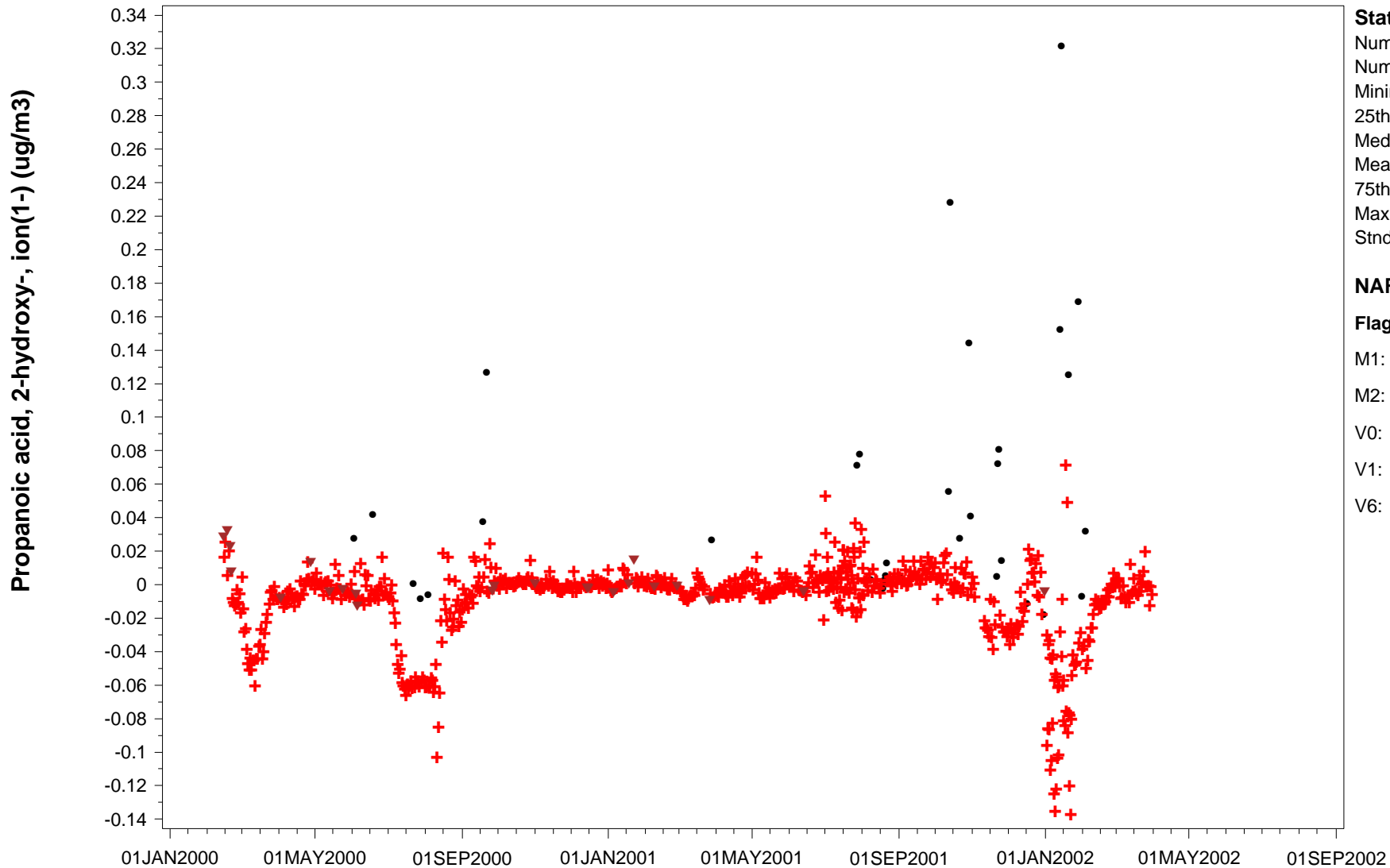
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Propanoic acid, 2-hydroxy-, ion(1-)** Common Name: **Lactic** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C113-21-3** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics
 Number of obs: **966**
 Number of missing: **159**
 Minimum: **-0.1369**
 25th Percentile: **-0.009**
 Median: **-0.0021**
 Mean: **-0.006**
 75th Percentile: **0.0028**
 Maximum: **0.3219**
 Stnd Dev.: **0.031**

NARSTO Flags
Flag Symbol Count

M1:		155
M2:		4
V0:	●	33
V1:	+	751
V6:	▼	23

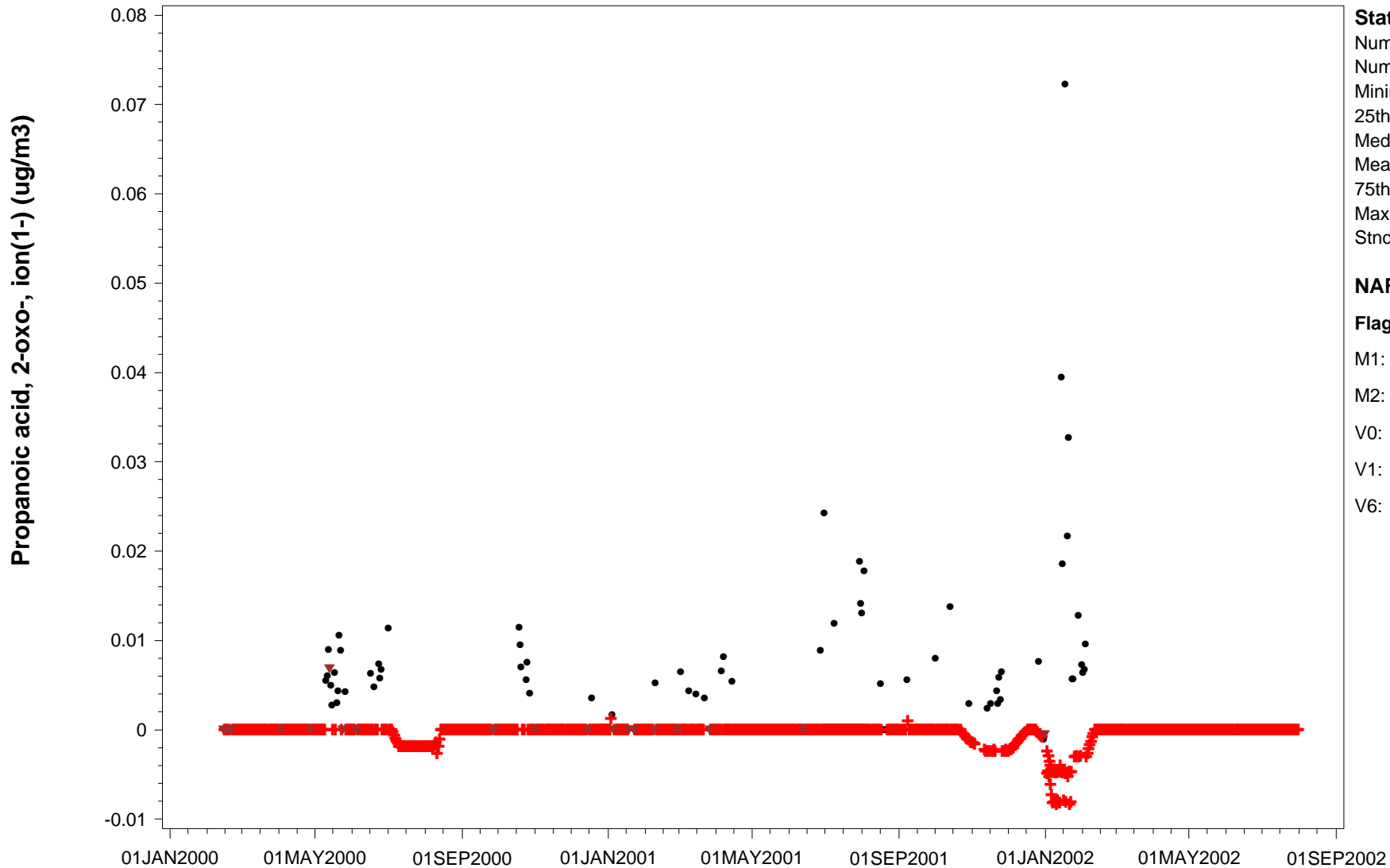
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Propanoic acid, 2-oxo-, ion(1-)** Common Name: **Pyruvic** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C57-60-3** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**
 Blank Correction: **Blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **35**
 Minimum: **-0.0083**
 25th Percentile: **0**
 Median: **0**
 Mean: **0.000**
 75th Percentile: **0**
 Maximum: **0.0723**
 Stnd Dev.: **0.004**

NARSTO Flags

Flag Symbol Count

M1:		29
M2:		6
V0:	●	74
V1:	+	834
V6:	▼	23

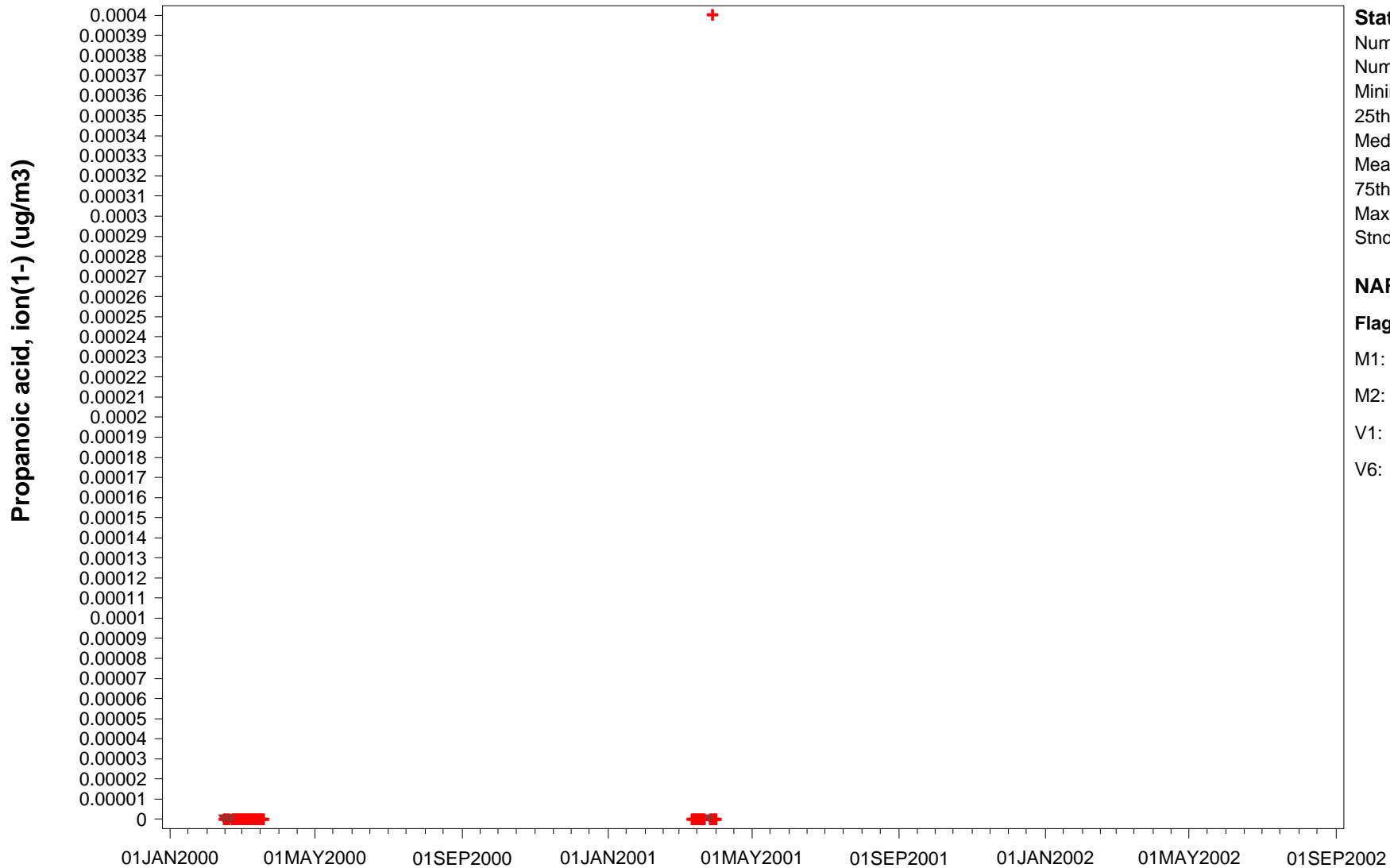
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Propanoic acid, ion(1-)** Common Name: **Propionate** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C72-03-7** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **Capillary electrophoresis** Sample preparation: **Water extraction**
 Blank Correction: **Not blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **913**
 Minimum: **0**
 25th Percentile: **0**
 Median: **0**
 Mean: **0.000**
 75th Percentile: **0**
 Maximum: **0.0004**
 Stnd Dev.: **0.000**

NARSTO Flags

Flag Symbol Count

M1:		912
M2:		1
V1:	+	48
V6:	▼	5

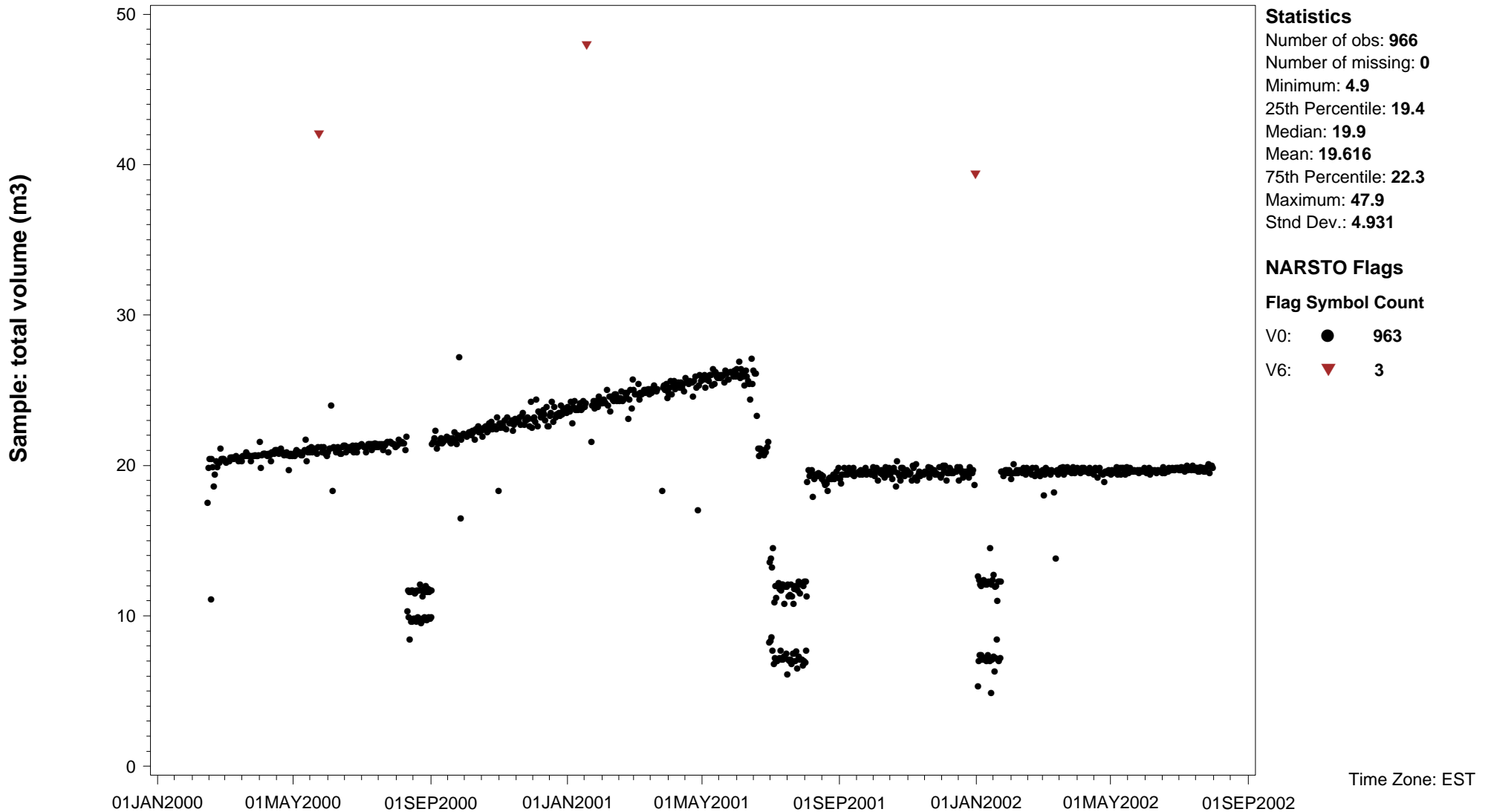
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Sample: total volume** Units: **m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**
 Observation type: **Flow** Field sampling or measurement principle: **Mass flow controller** Inlet type: **Impactor--virtual/concentrator**
 Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**

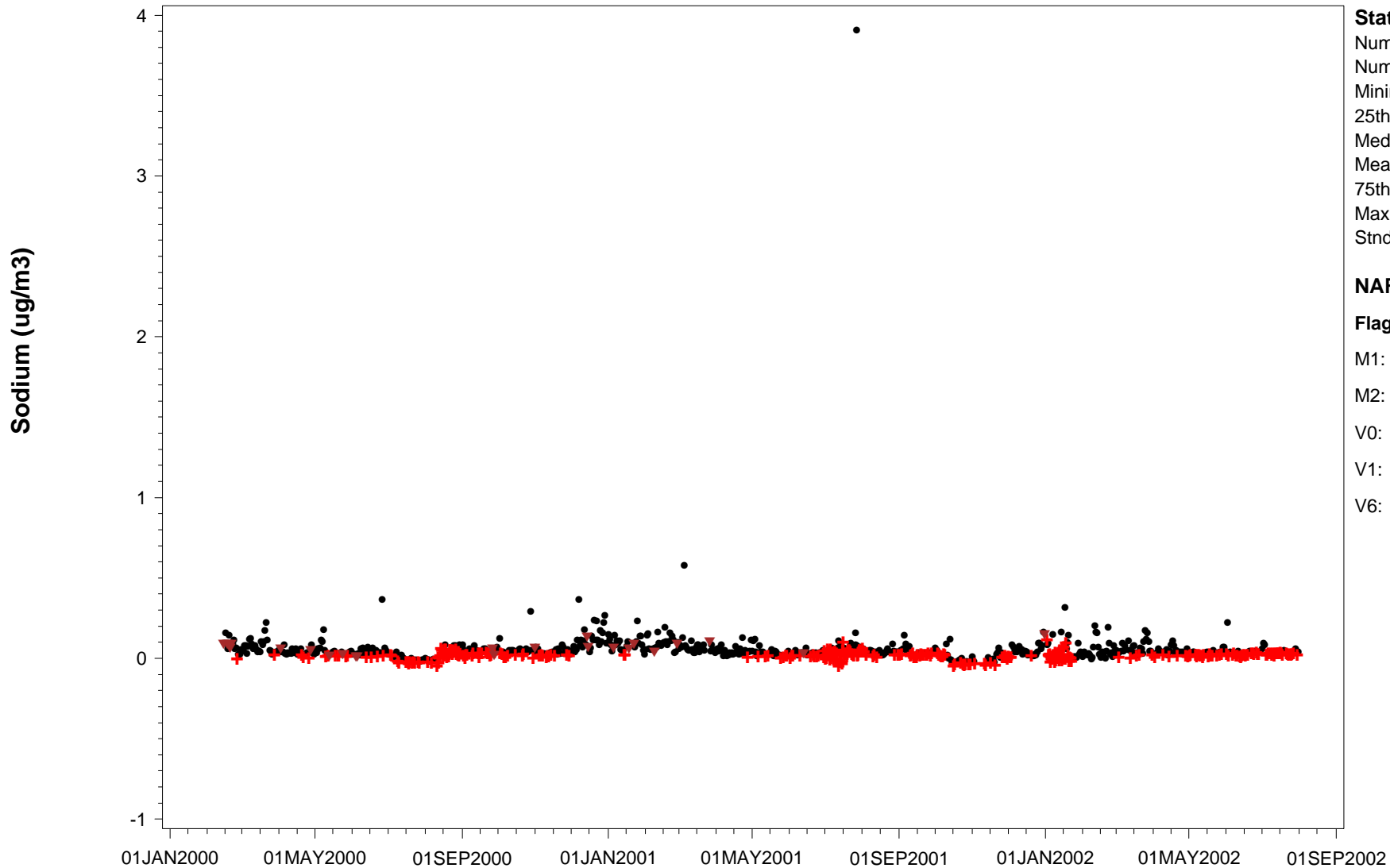


NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Sodium** Units: **ug/m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**
 CAS ID: **C7440-23-5** Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**
 Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics
 Number of obs: **966**
 Number of missing: **15**
 Minimum: **-0.046**
 25th Percentile: **0.019**
 Median: **0.035**
 Mean: **0.048**
 75th Percentile: **0.059**
 Maximum: **3.906**
 Stnd Dev.: **0.134**

NARSTO Flags

Flag Symbol Count	
M1:	7
M2:	8
V0: ●	604
V1: +	324
V6: ▼	23

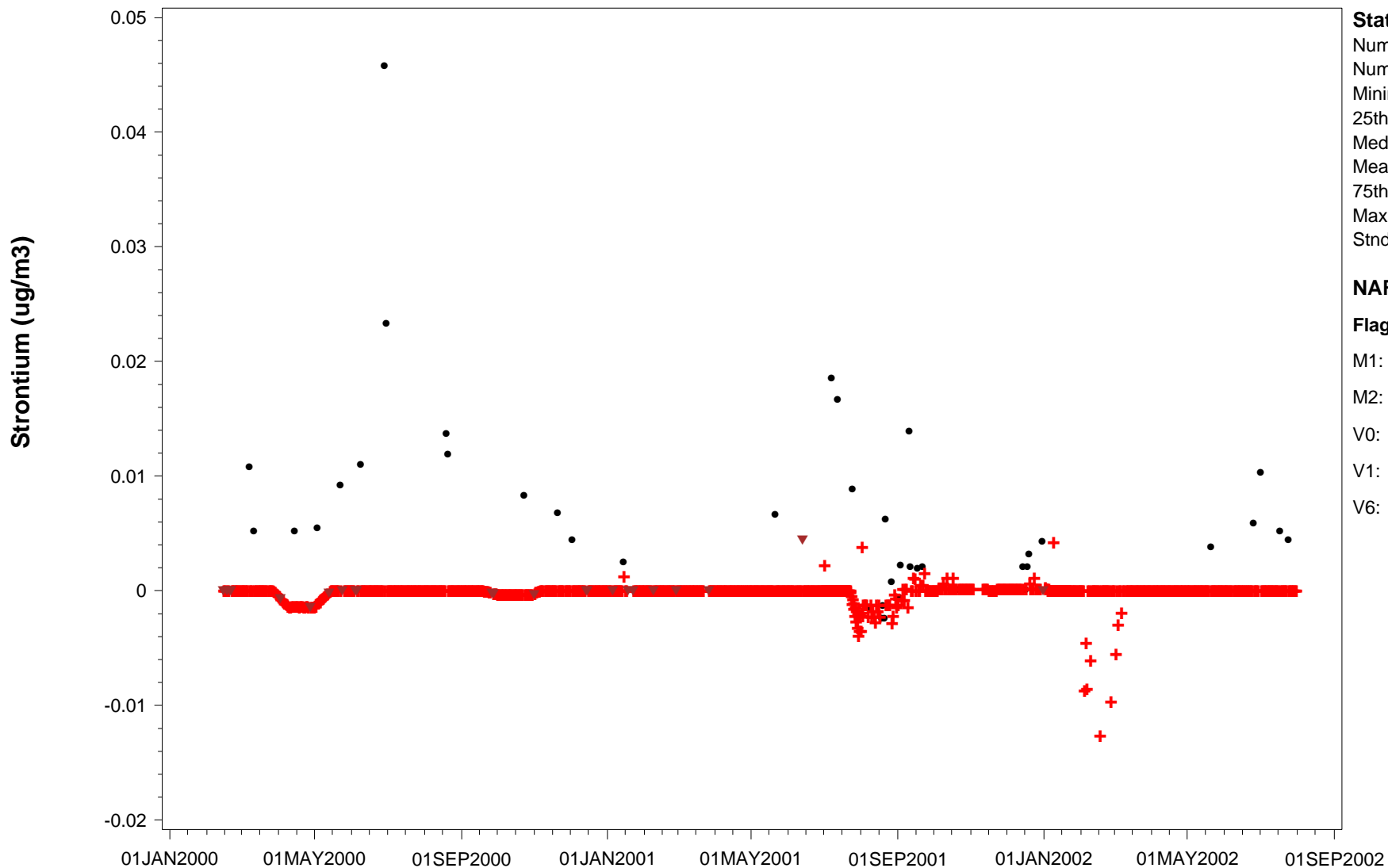
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Strontium** Units: **ug/m3** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**
 CAS ID: **C7440-24-6** Observation type: **Particles** Particle diameter--lower bound (UM): **0** Particle diameter--upper bound (UM): **2.5**
 Field sampling or measurement principle: **Single filter** Medium: **Teflon** Inlet type: **Impactor--virtual/concentrator**
 Laboratory analytical method: **IC** Sample preparation: **Water extraction** Blank Correction: **Blank corrected**
 Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **35**
 Minimum: **-0.0127**
 25th Percentile: **0**
 Median: **0**
 Mean: **0.000**
 75th Percentile: **0**
 Maximum: **0.0458**
 Stnd Dev.: **0.002**

NARSTO Flags

Flag Symbol Count

M1:		27
M2:		8
V0:	●	41
V1:	+	867
V6:	▼	23

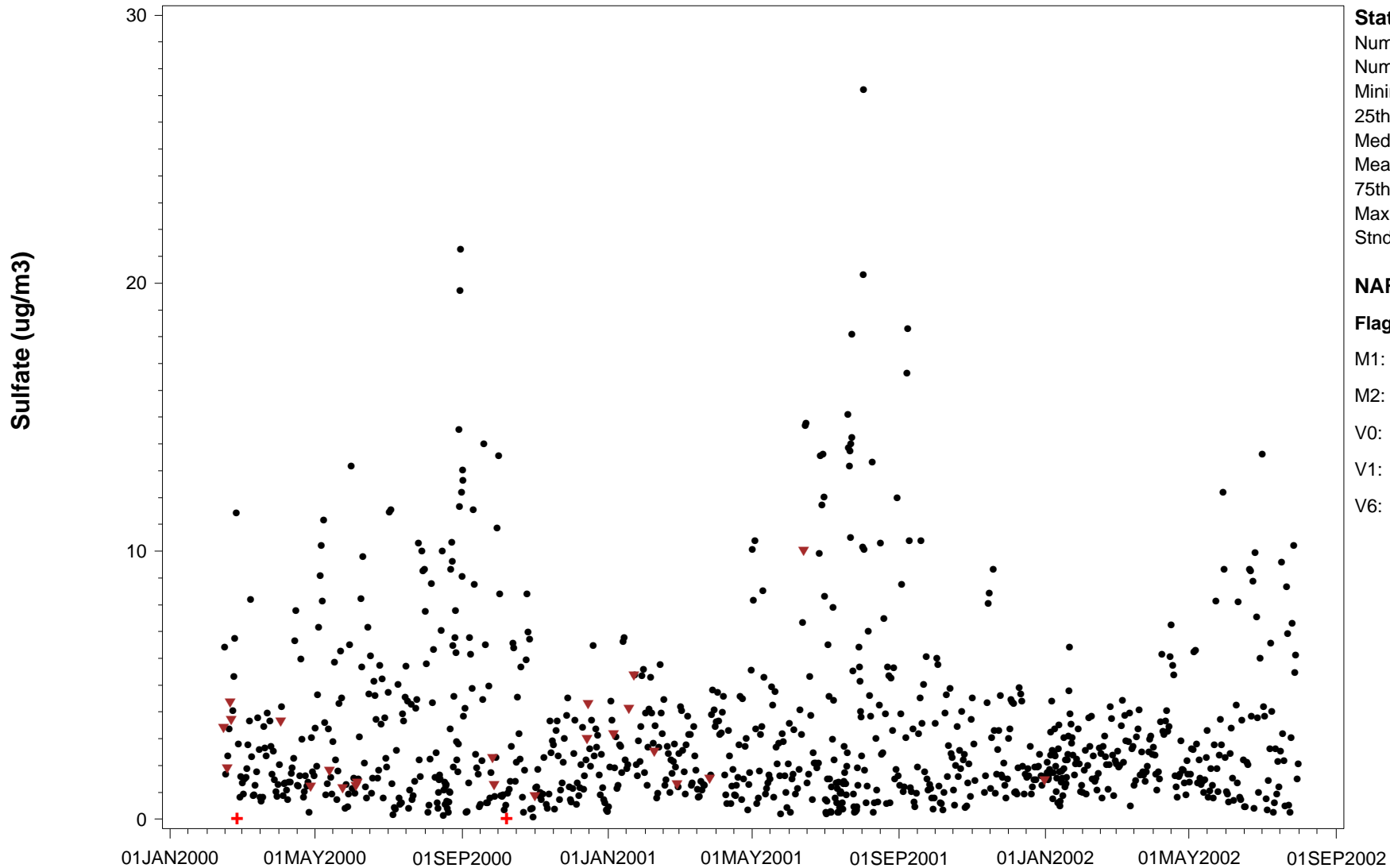
Time Zone: EST

NAtChem Time Series Plot

09DEC2004

Site ID: **SHEMCAONGAG_** Variable name: **Sulfate** Common Name: **Sulphate** Units: **ug/m3** Sampling interval: **Variable interval**
 Sampling frequency: **Variable frequency** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0**
 Particle diameter--upper bound (UM): **2.5** Field sampling or measurement principle: **Single filter** Medium: **Teflon**
 Inlet type: **Impactor--virtual/concentrator** Laboratory analytical method: **IC** Sample preparation: **Water extraction**
 Blank Correction: **Not blank corrected** Volume standardization: **0 deg. C; 1 atmosphere** Sampling Height above ground (m): **2**
 Instrument name and model number: **University Research Glassware Versatile Air Pollutant Sampler**
 Measurement principal investigator: **Jeffrey Brook** Detection Limit: **Varies--see Detection lim**

Site Name: **Gage, Ontario** Latitude: **43.65842 deg.** Longitude: **-79.39714 deg.** Start Date: **2000-02-14** End Date: **2002-07-31**



Statistics

Number of obs: **966**
 Number of missing: **15**
 Minimum: **0.02**
 25th Percentile: **1.21**
 Median: **2.12**
 Mean: **3.193**
 75th Percentile: **3.94**
 Maximum: **27.21**
 Stnd Dev.: **3.205**

NARSTO Flags

Flag Symbol Count

M1:		7
M2:		8
V0:	●	926
V1:	+	2
V6:	▼	23

Time Zone: EST