

*APPENDIX C*

*Time Series Plots*

*December 1992 – June 2008*



# Appendix C

## Time Series Plots

Time-series plots representing AMP data from December 1992 through June 2008 are presented in this Appendix. These plots were prepared for most parameters monitored in 2007-2008. However, not all parameters have been included. Time series plots for a majority of the trace organic parameters were not included because their results were below detection. A representative number have been included to demonstrate trends for the various categories (carbamate pesticides, OP pesticides, PAHs, semi volatile organics and volatile organics). The lowest water quality objective as listed in Table 3-7 have been included on selected plots. Plots are presented by monitoring site.

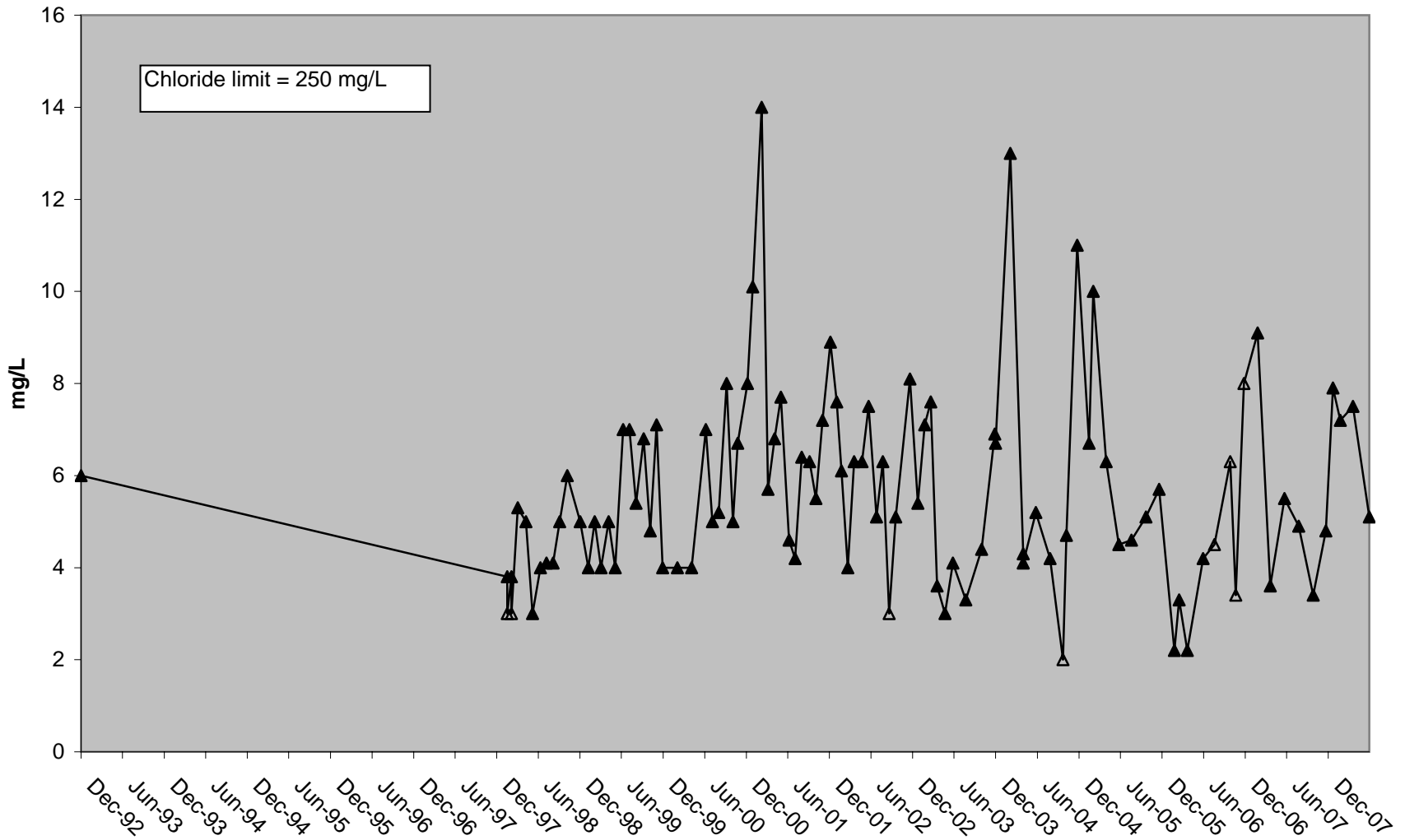
*APPENDIX C-1*

*Sacramento River at Veterans Bridge*



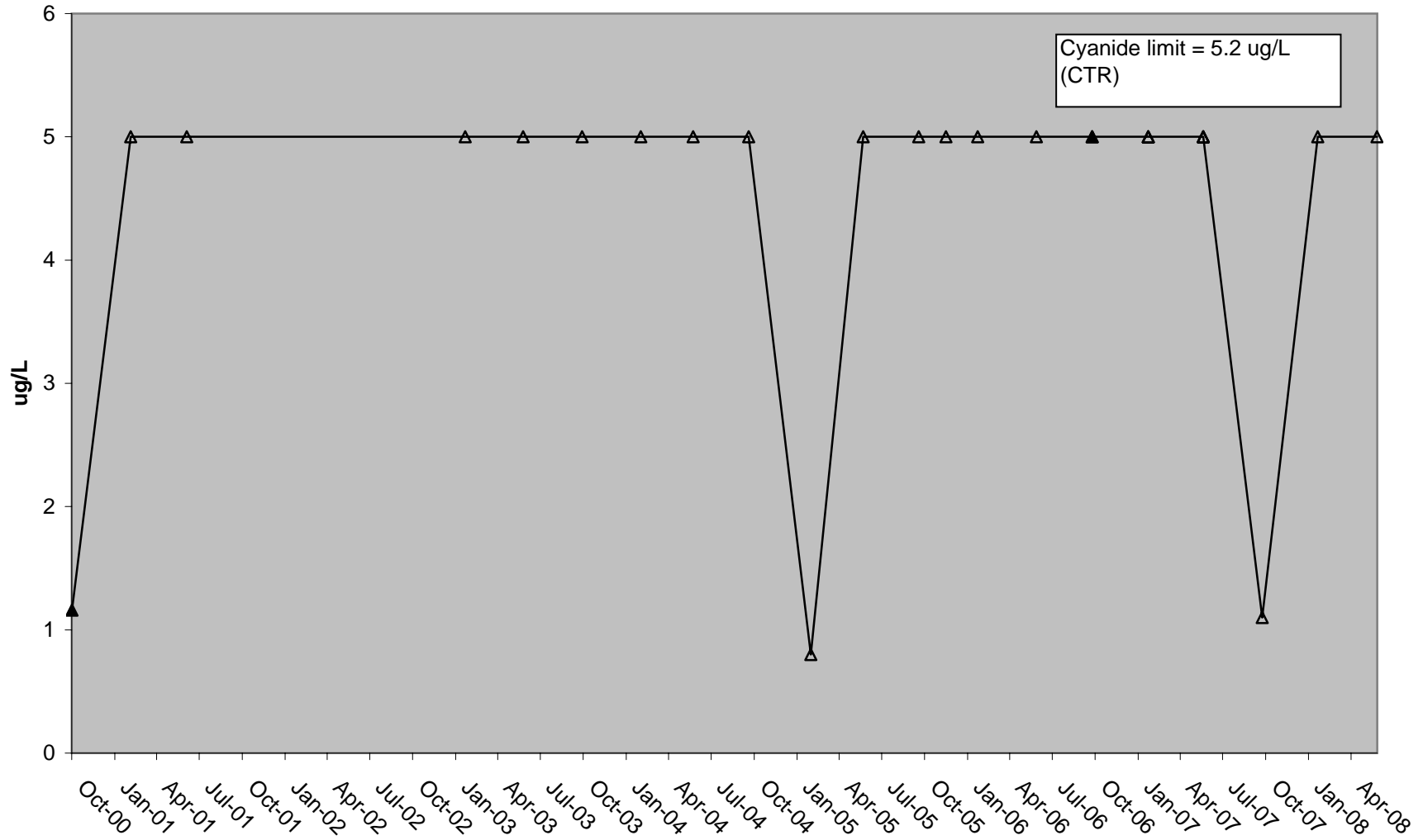
# Veterans Bridge Chloride

— Trendline    △ Below Detection    ▲ Result



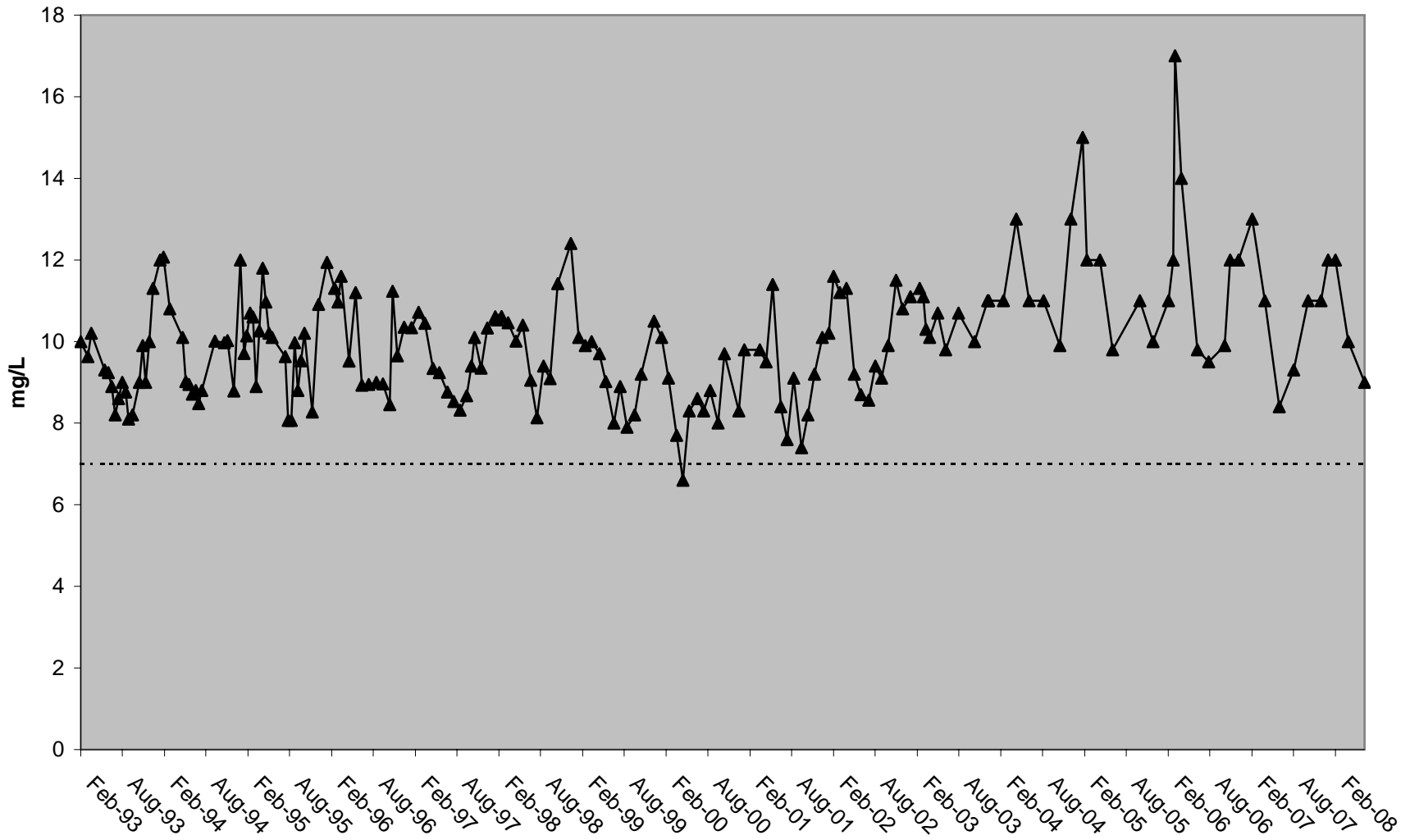
# Veterans Bridge Cyanide

— Trendline    Δ Below Detection    ▲ Result



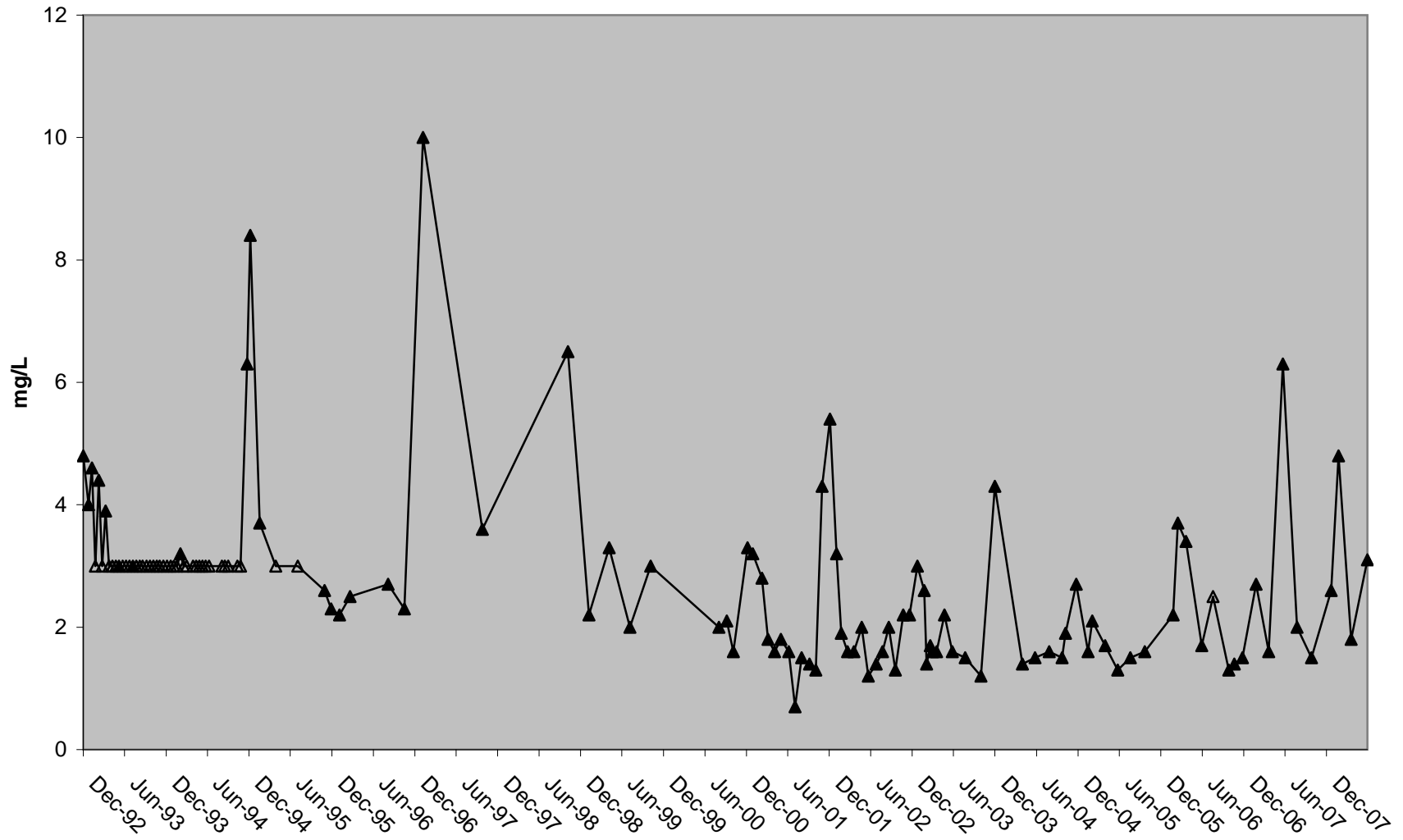
### Veterans Bridge Dissolved Oxygen (DO)

— Trendline    △ Below Detection    ▲ Result    - - - - - Lowest Objective



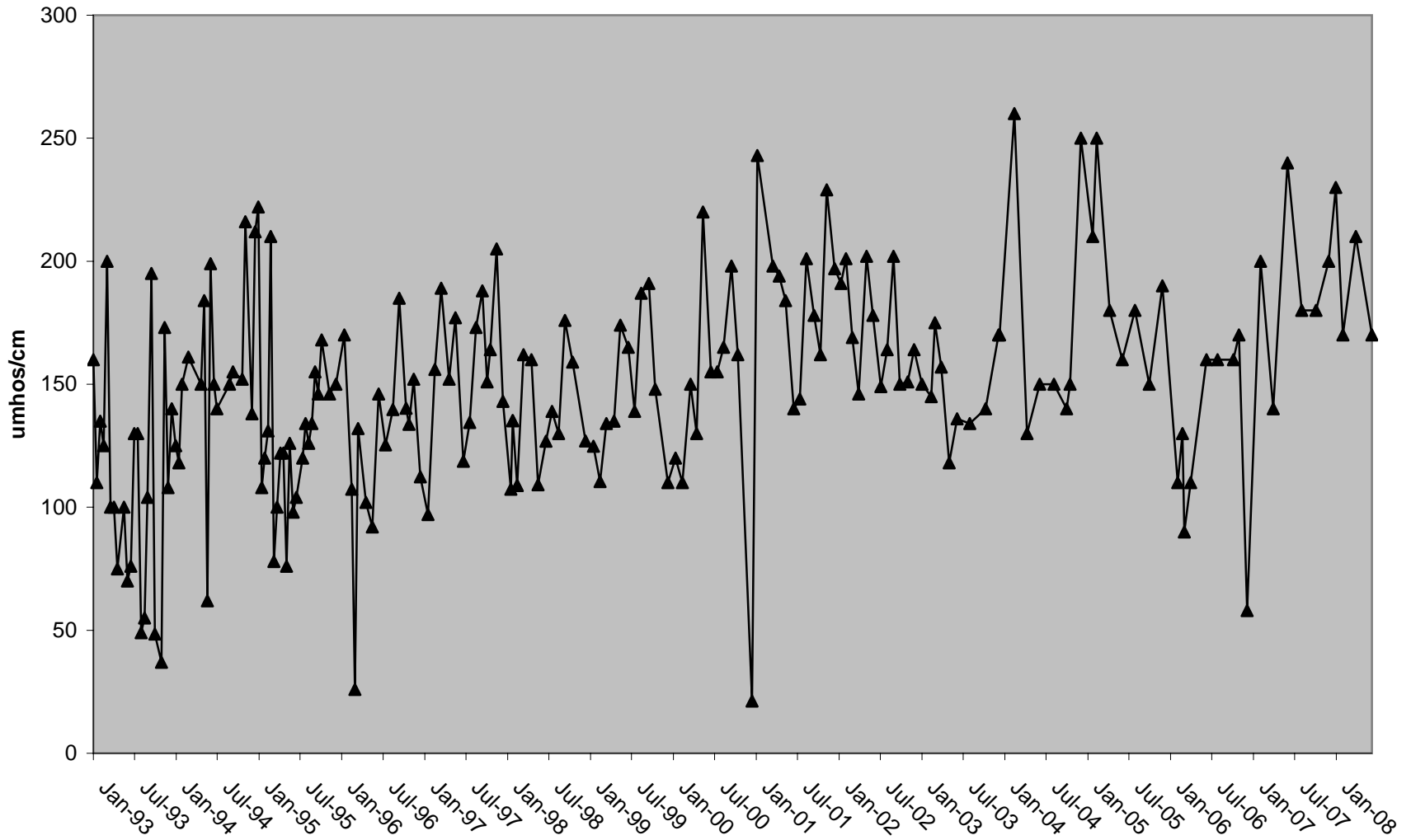
### Veterans Bridge Dissolved Organic Carbon (DOC)

— Trendline    △ Below Detection    ▲ Result



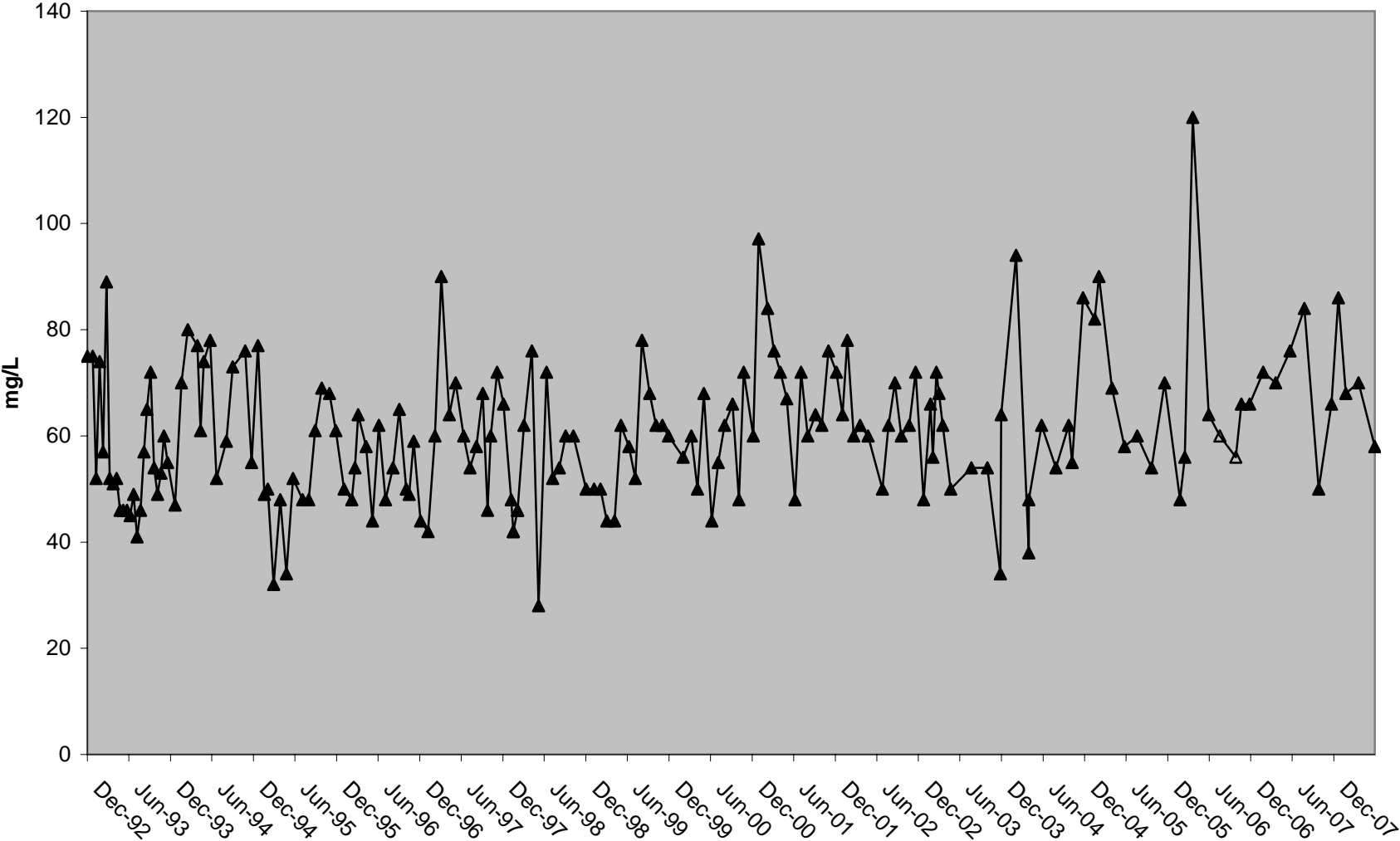
### Veterans Bridge Electrical Conductivity (EC)

— Trendline    △ Below Detection    ▲ Result



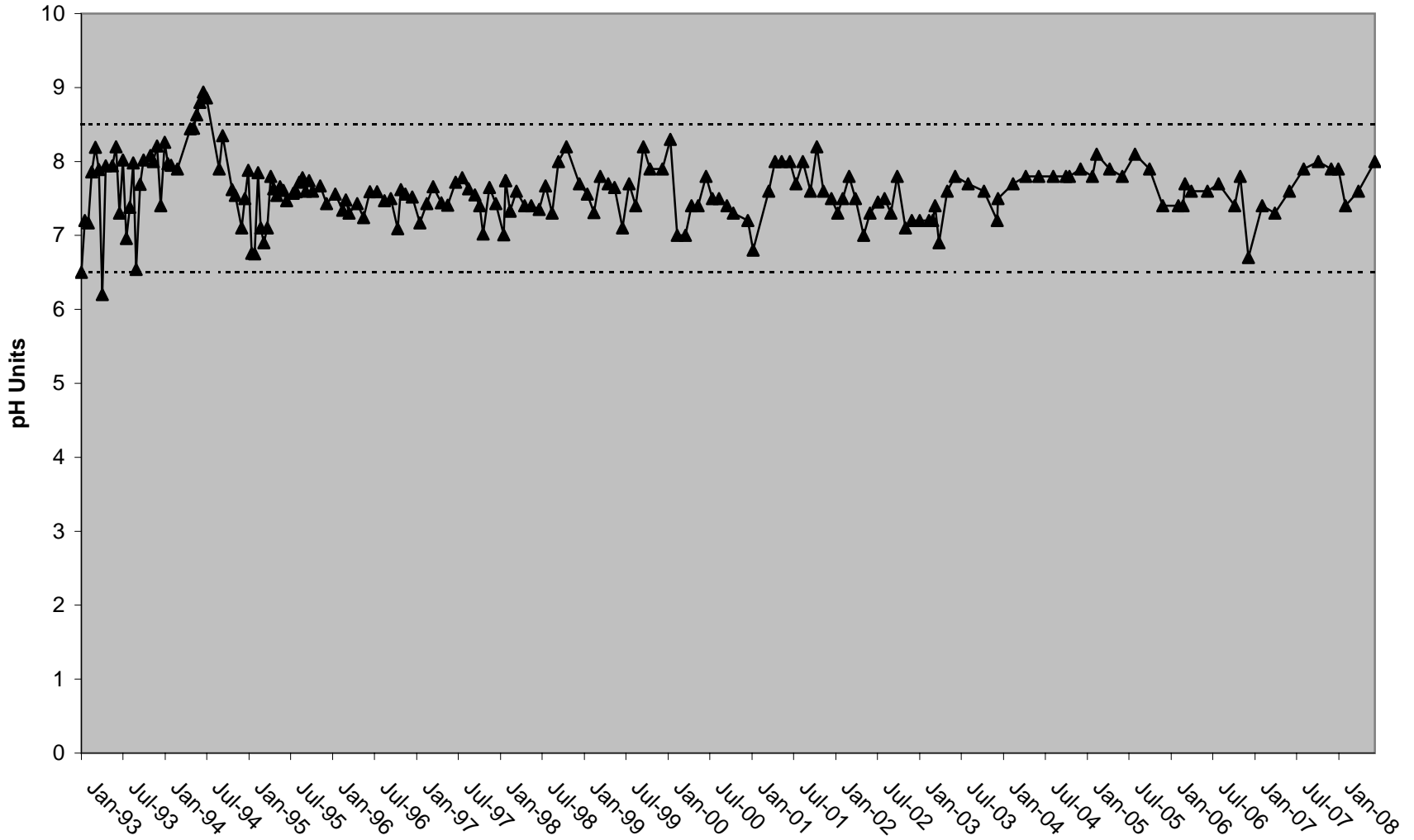
# Veterans Bridge Hardness

— Trendline    △ Below Detection    ▲ Result



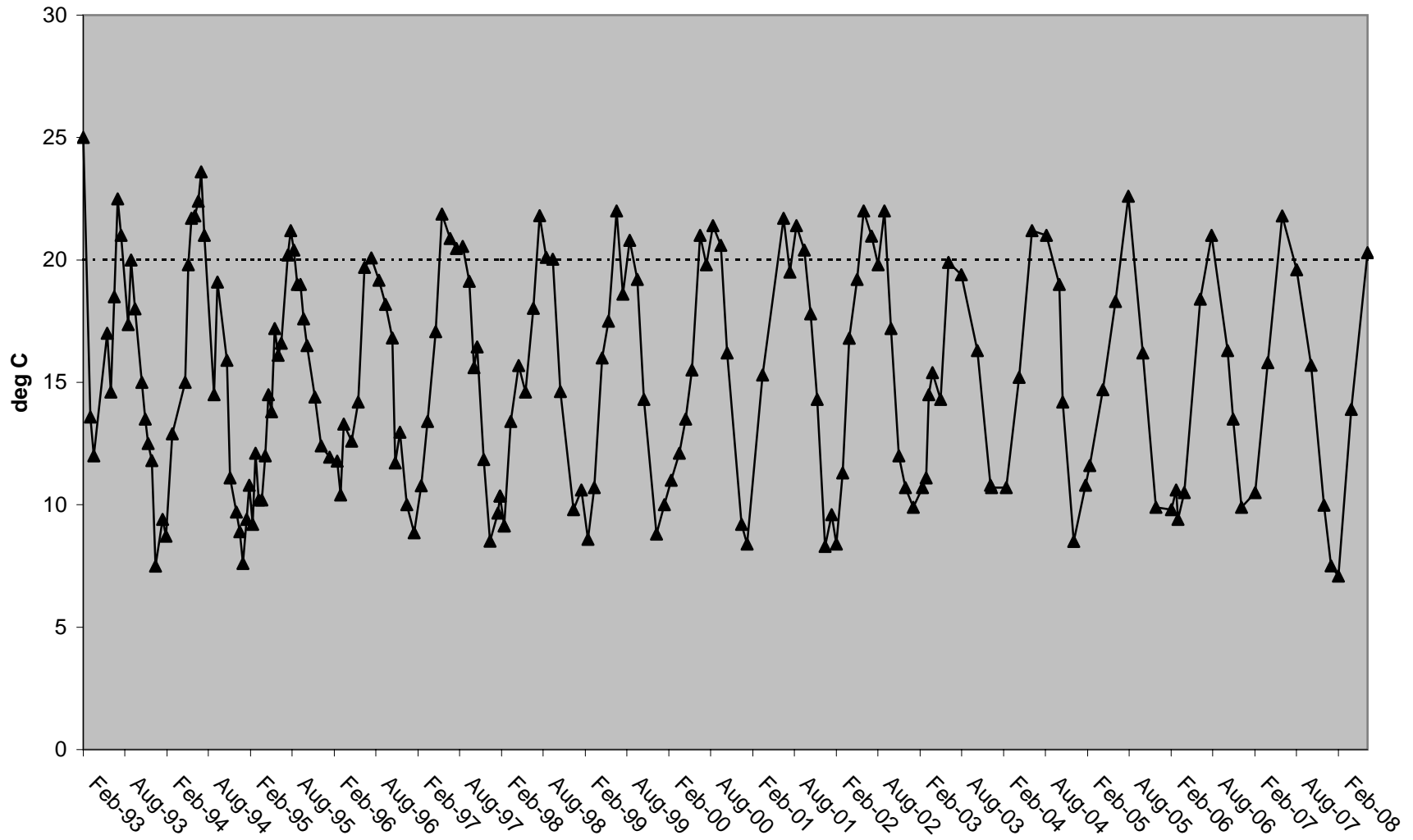
# Veterans Bridge pH

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



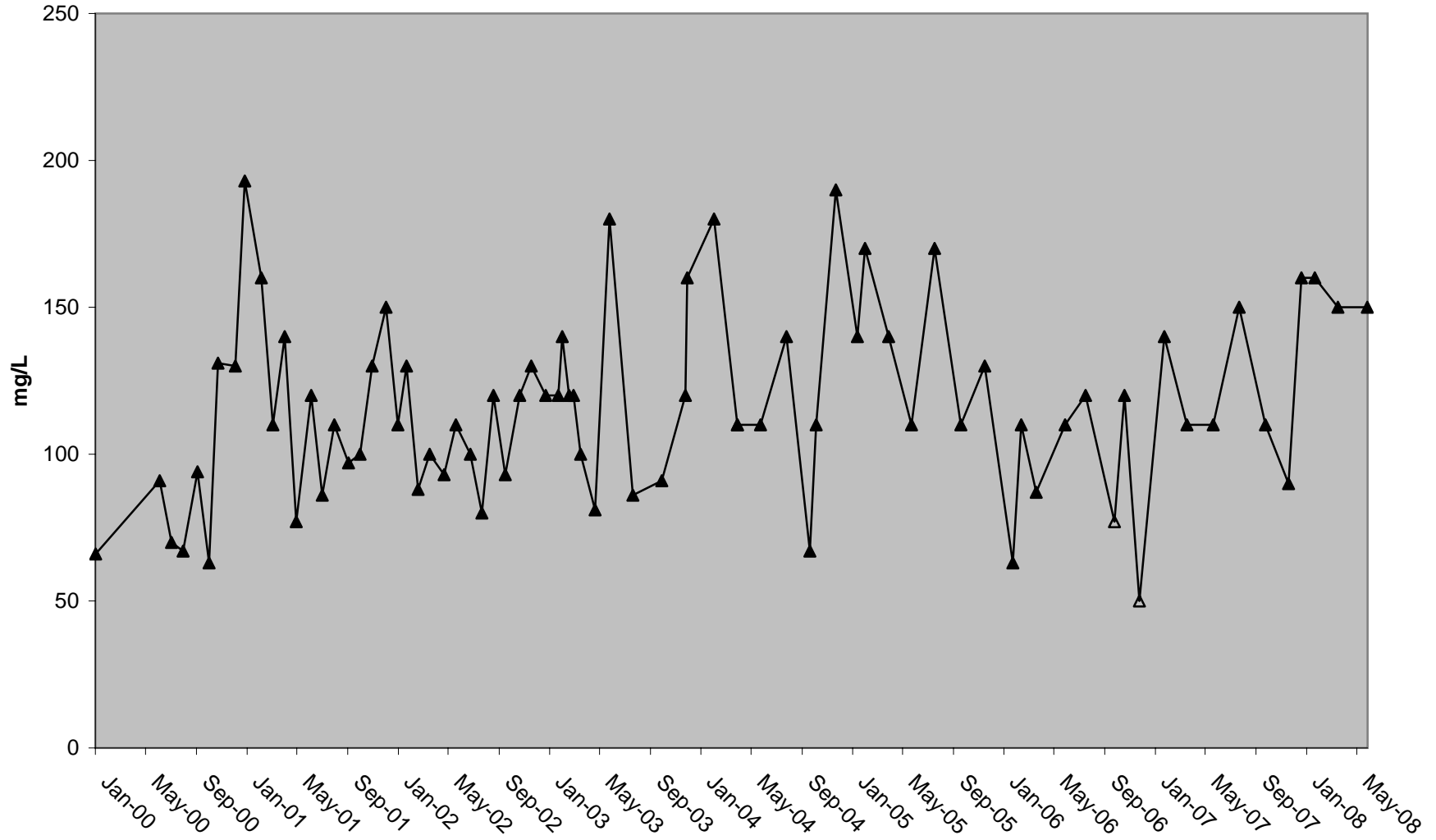
# Veterans Bridge Water Temperature

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



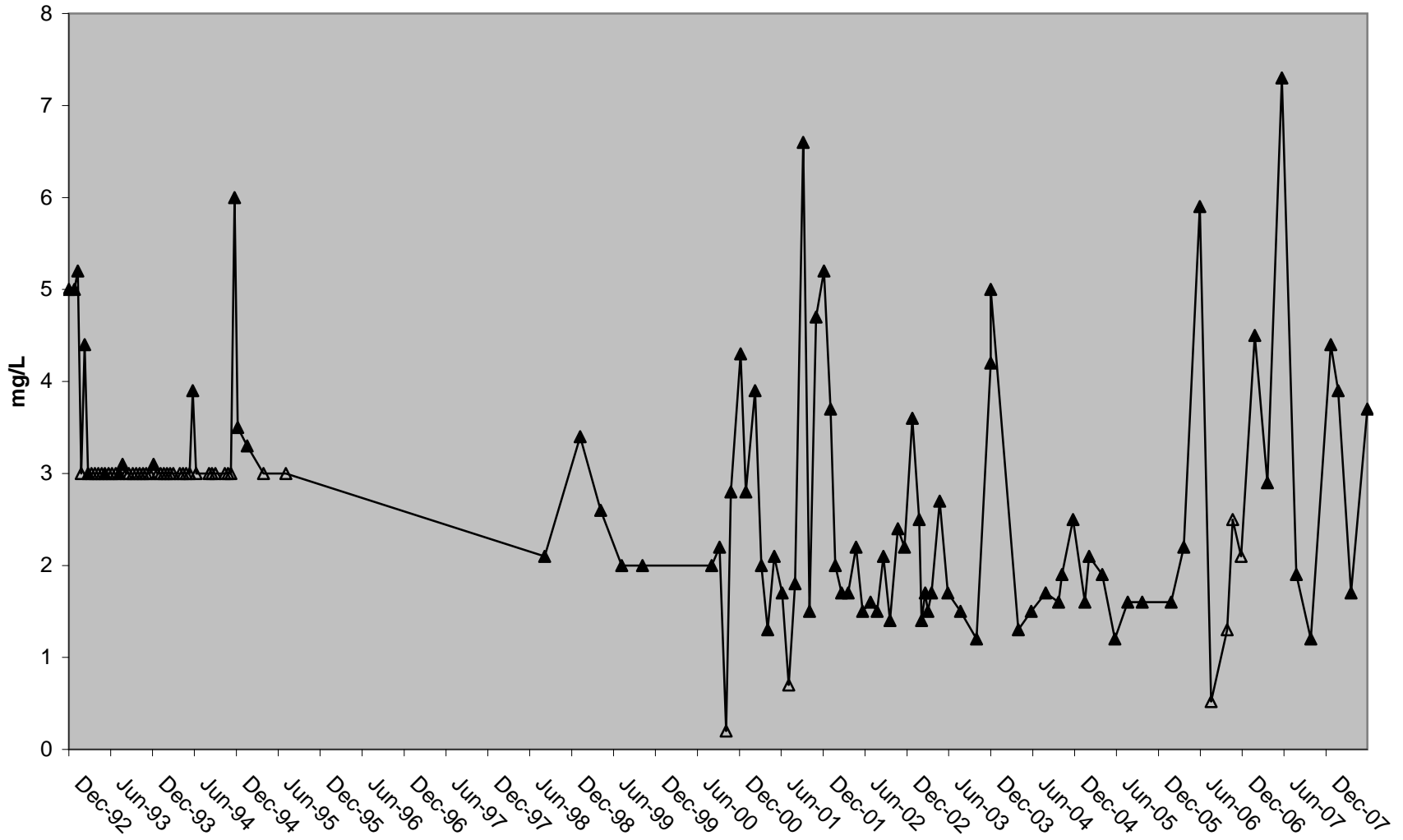
### Veterans Bridge Total Dissolved Solids (TDS)

— Trendline    △ Below Detection    ▲ Result



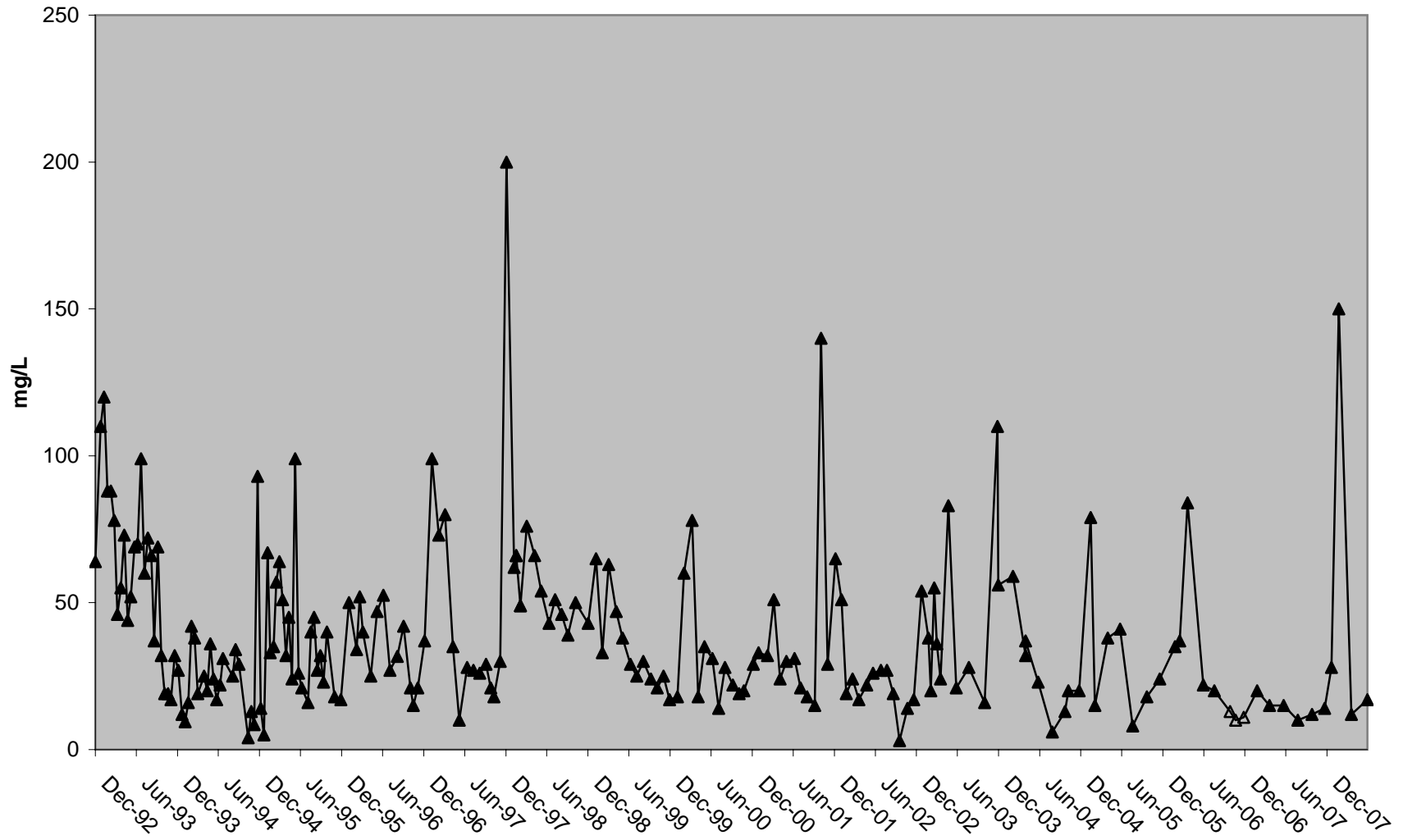
### Veterans Bridge Total Organic Carbon (TOC)

— Trendline    △ Below Detection    ▲ Result

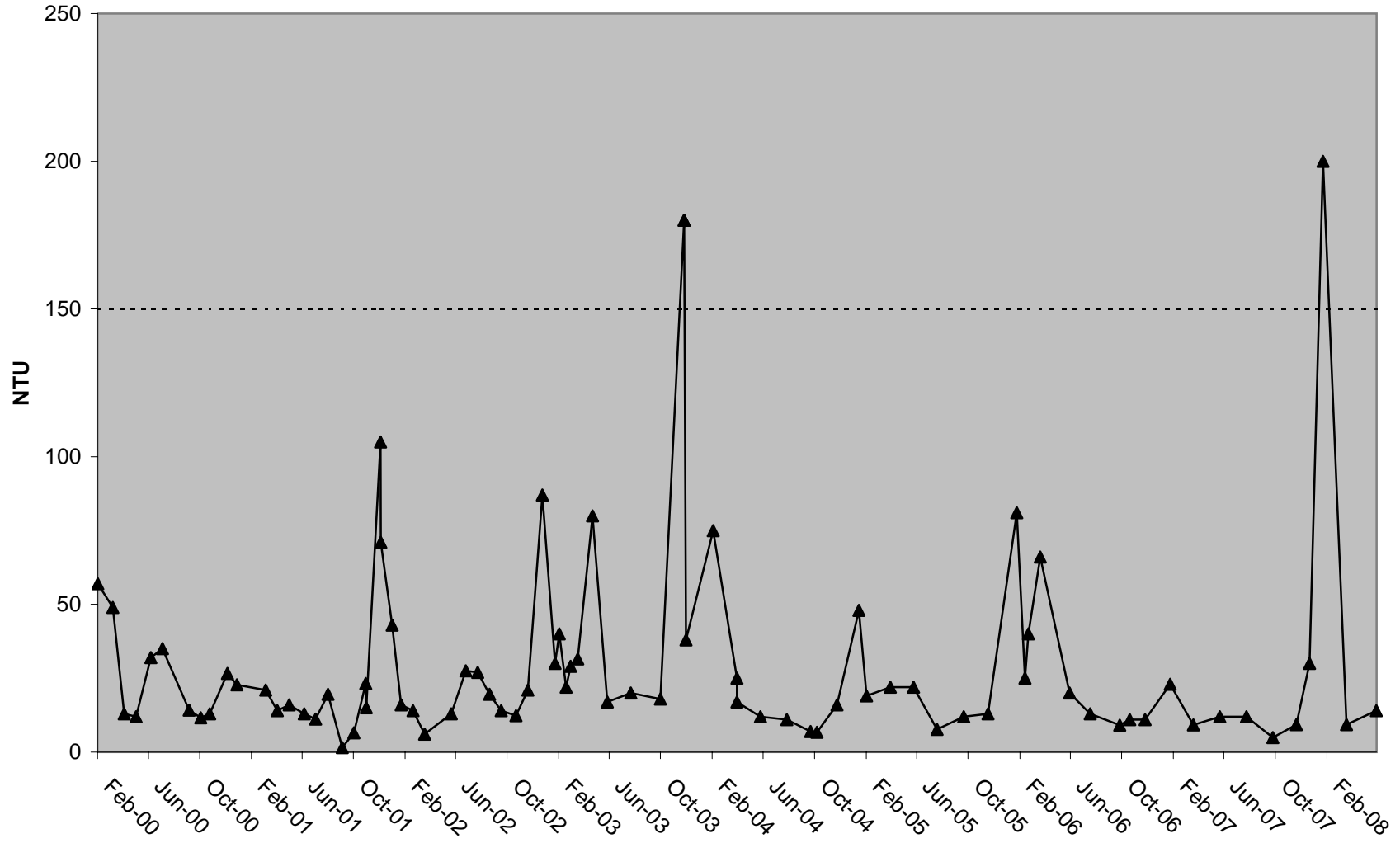
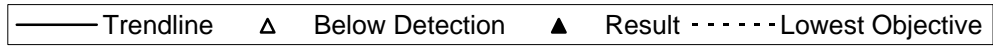


### Veterans Bridge Total Suspended Solids (TSS)

— Trendline    △ Below Detection    ▲ Result

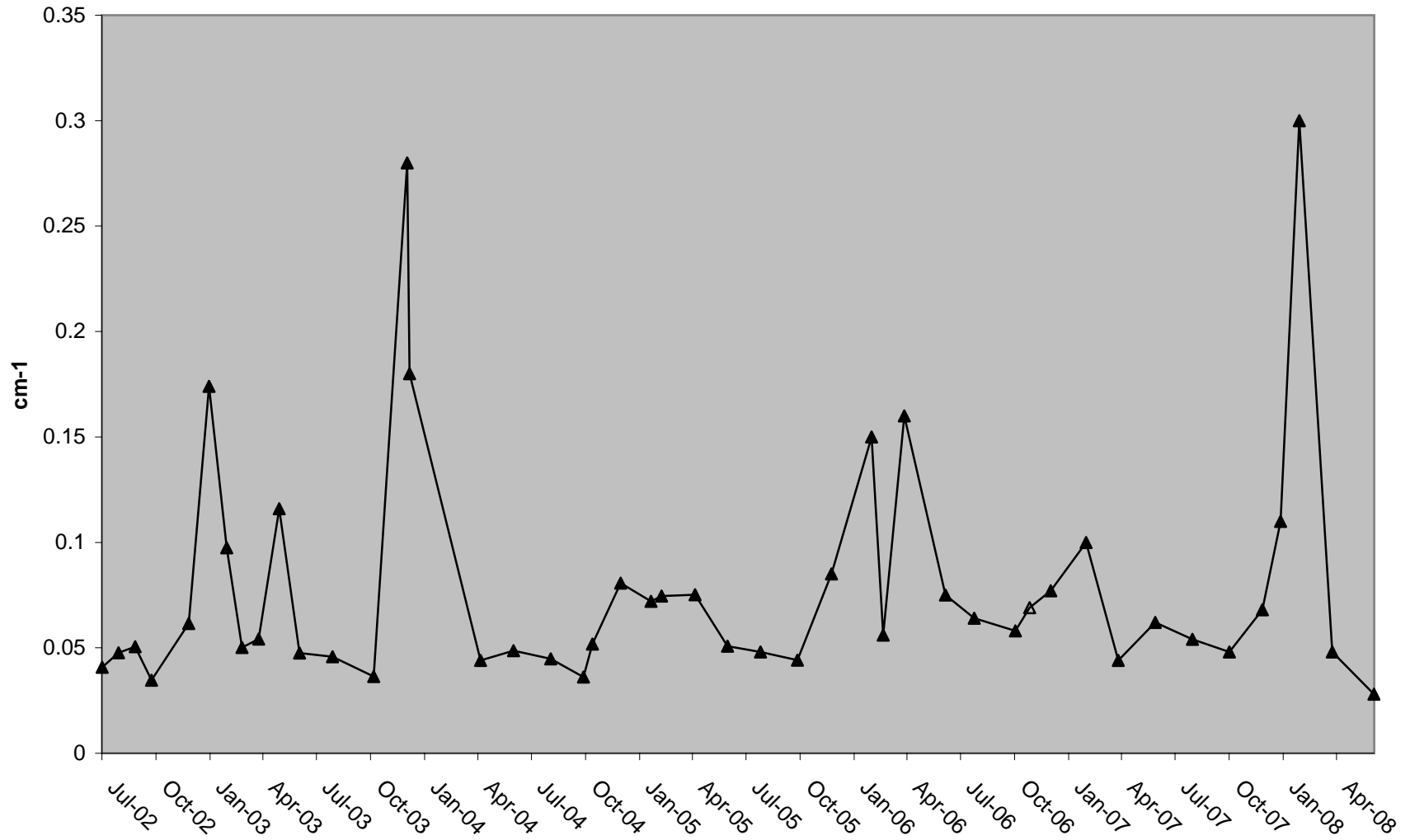


# Veterans Bridge Turbidity



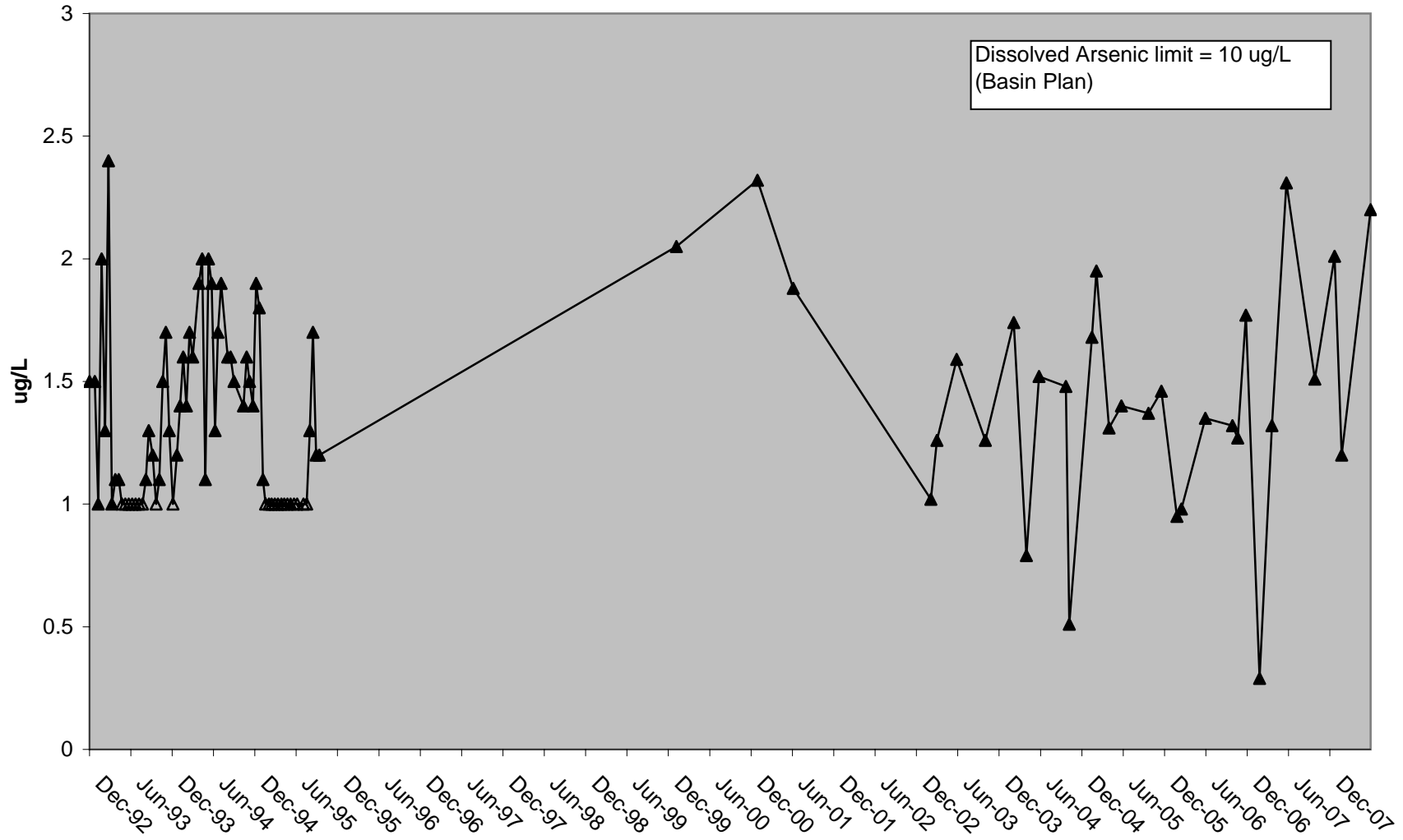
# Veterans Bridge UVA 254

— Trendline    Δ Below Detection    ▲ Result



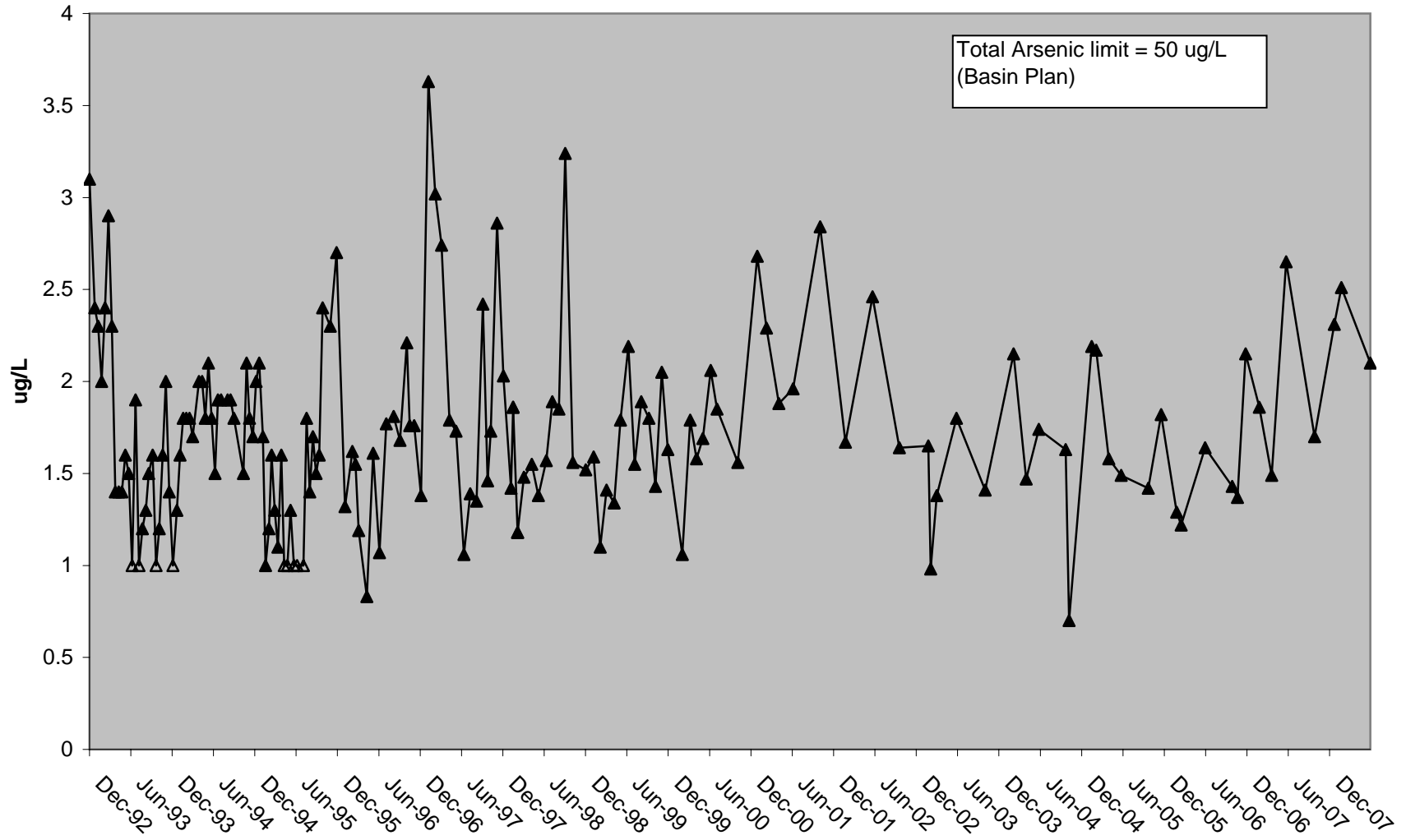
### Veterans Bridge Dissolved Arsenic (As-d)

— Trendline    △ Below Detection    ▲ Result



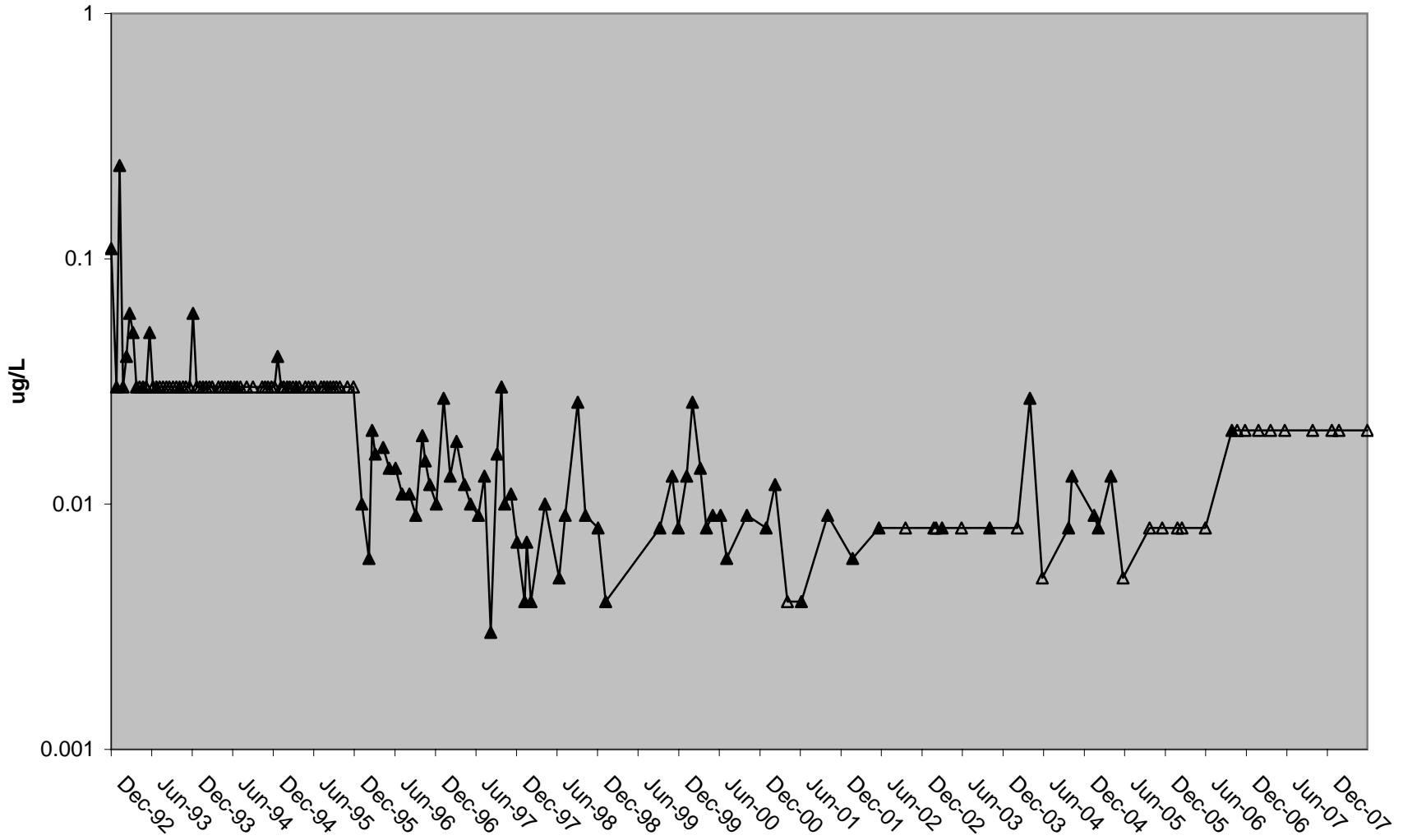
### Veterans Bridge Total Arsenic (As-T)

— Trendline    △ Below Detection    ▲ Result



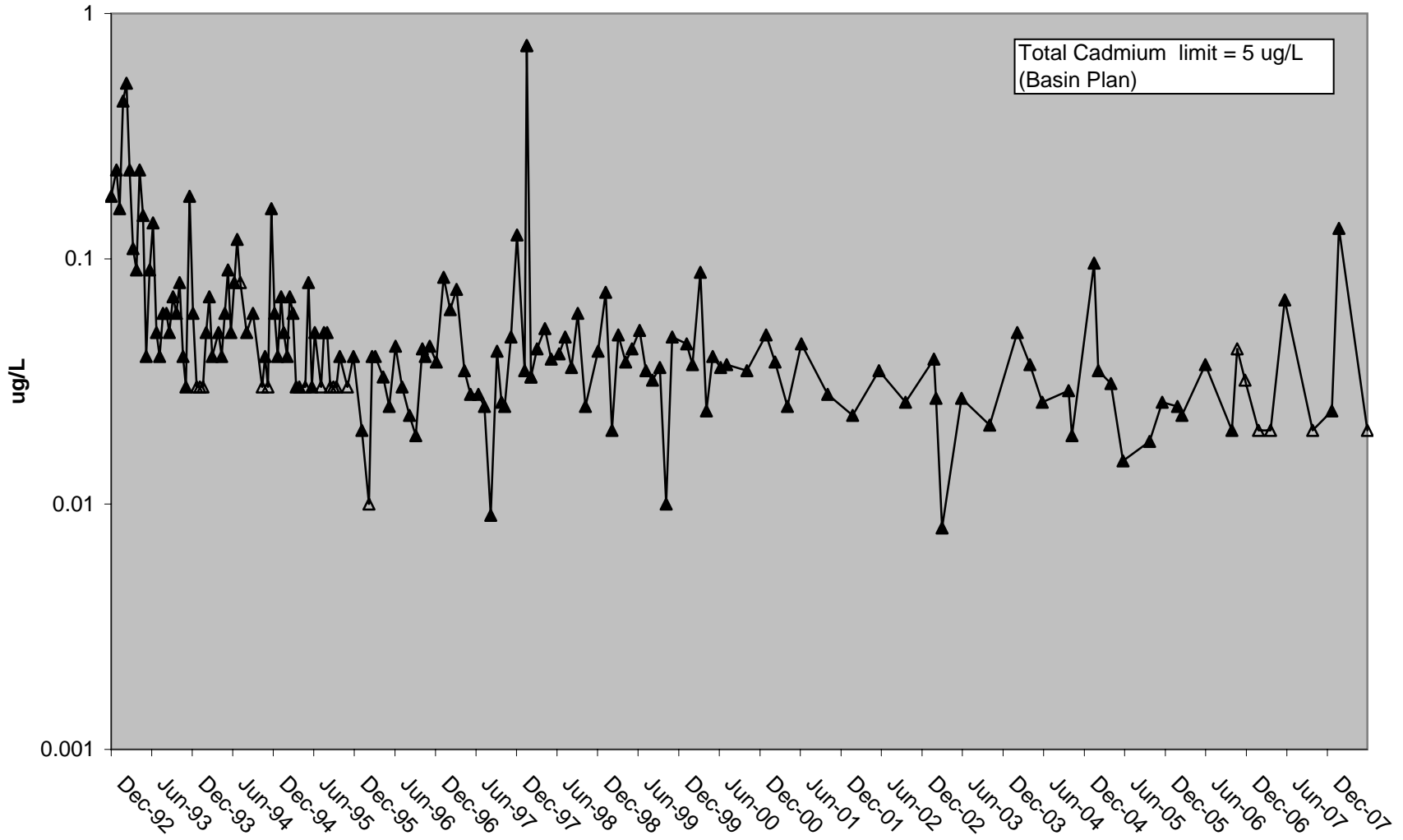
### Veterans Bridge Dissolved Cadmium (Cd-d)

— Trendline    △ Below Detection    ▲ Result



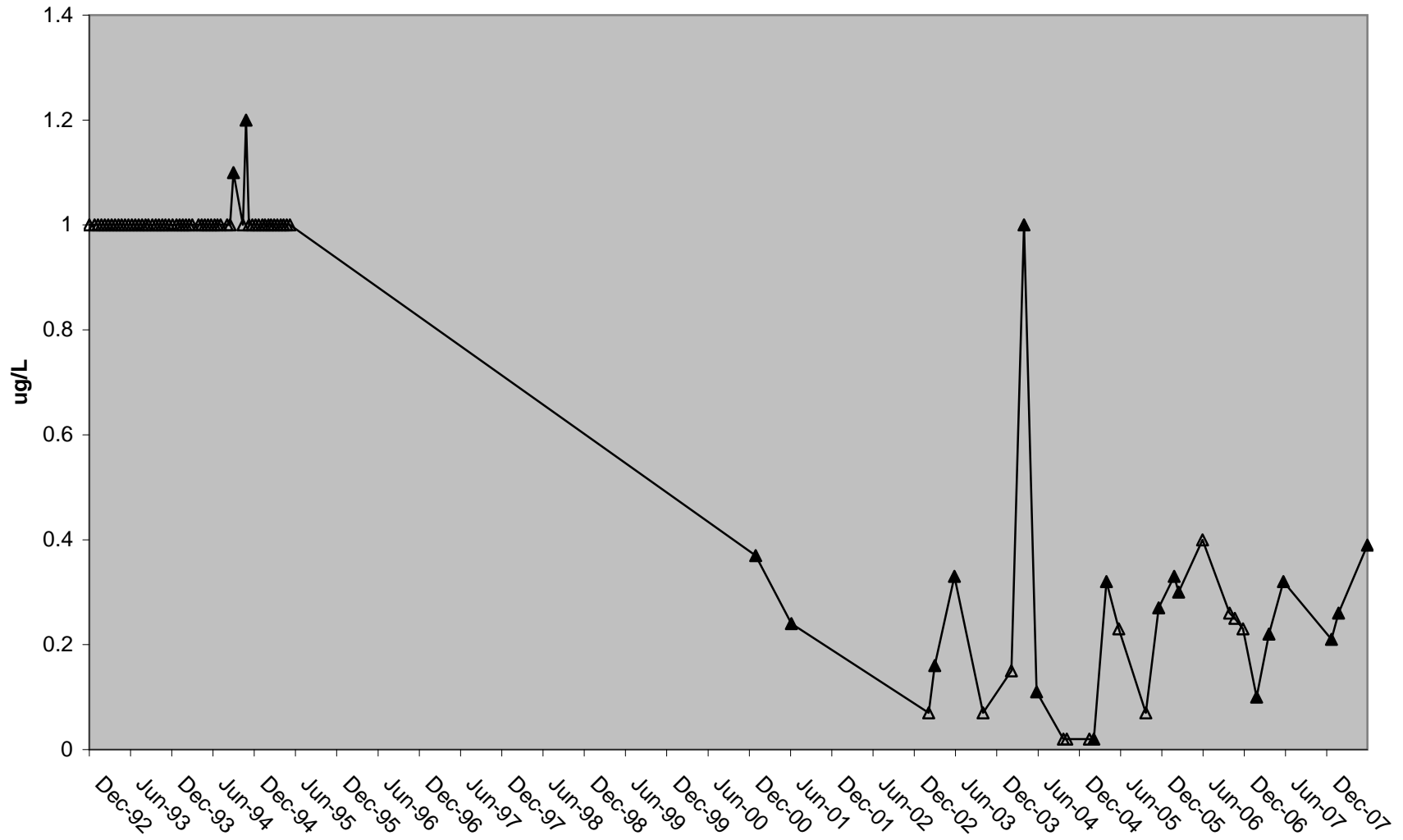
### Veterans Bridge Total Cadmium (Cd-T)

— Trendline    △ Below Detection    ▲ Result



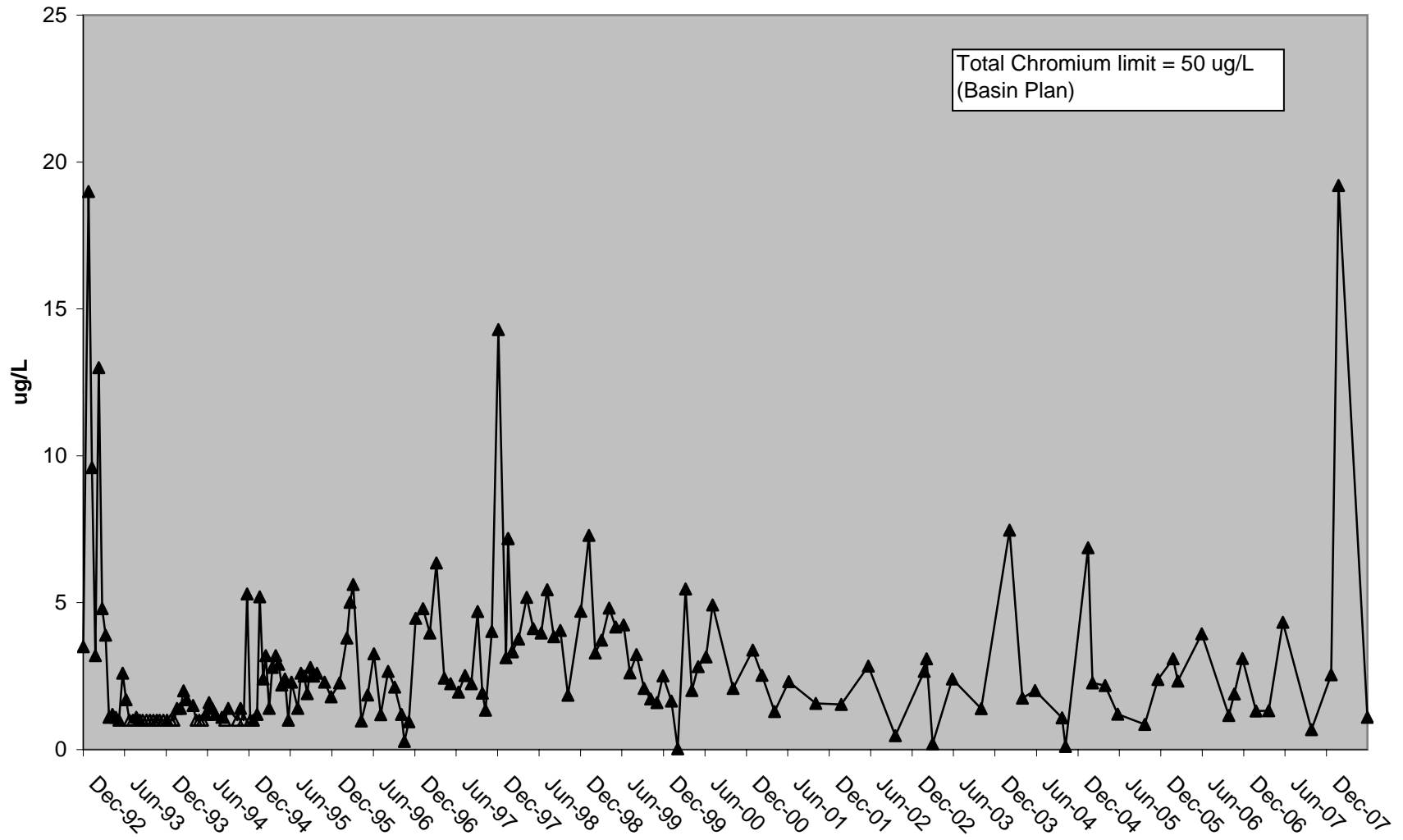
### Veterans Bridge Dissolved Chromium (Cr-d)

— Trendline    △ Below Detection    ▲ Result



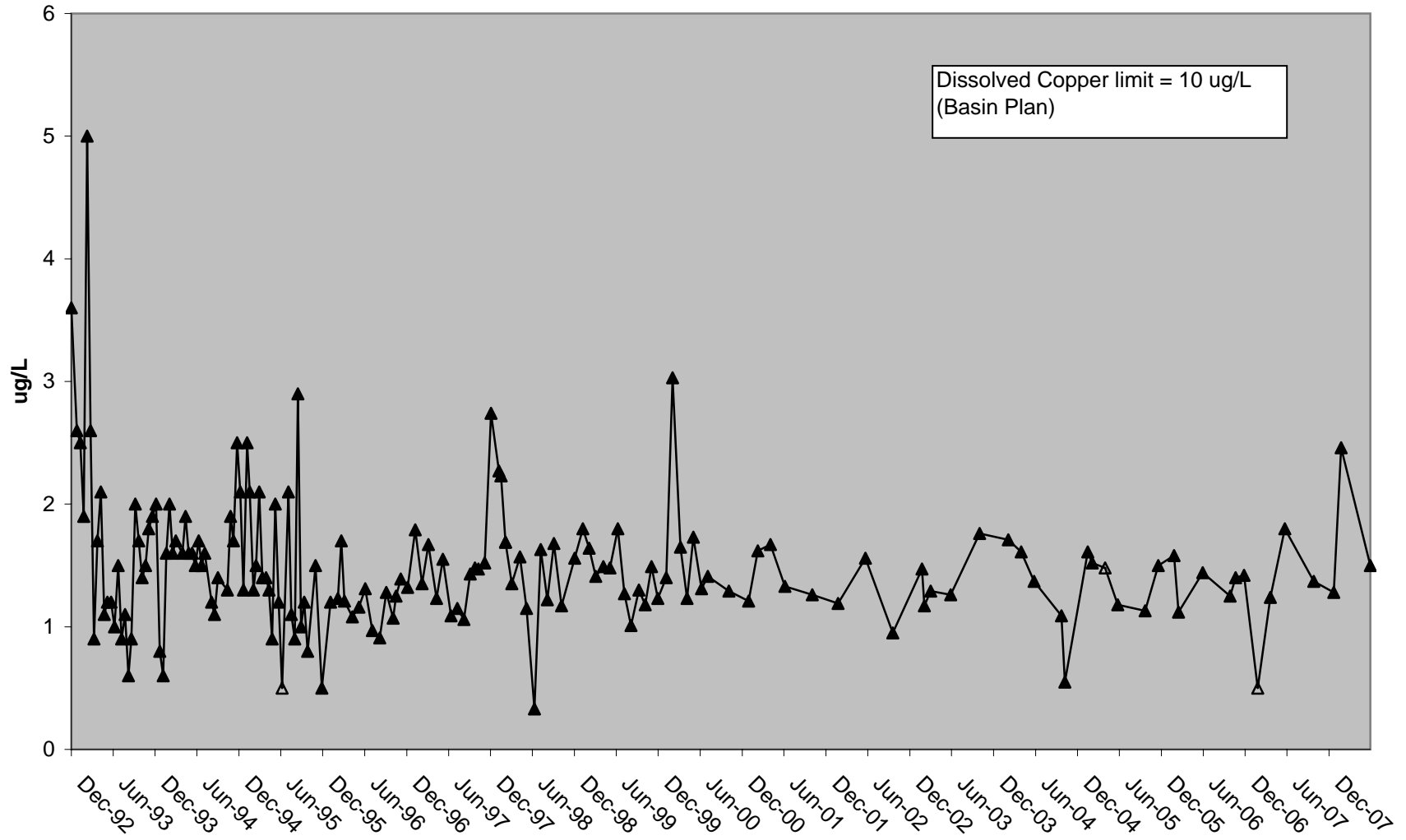
### Veterans Bridge Total Chromium (Cr-T)

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



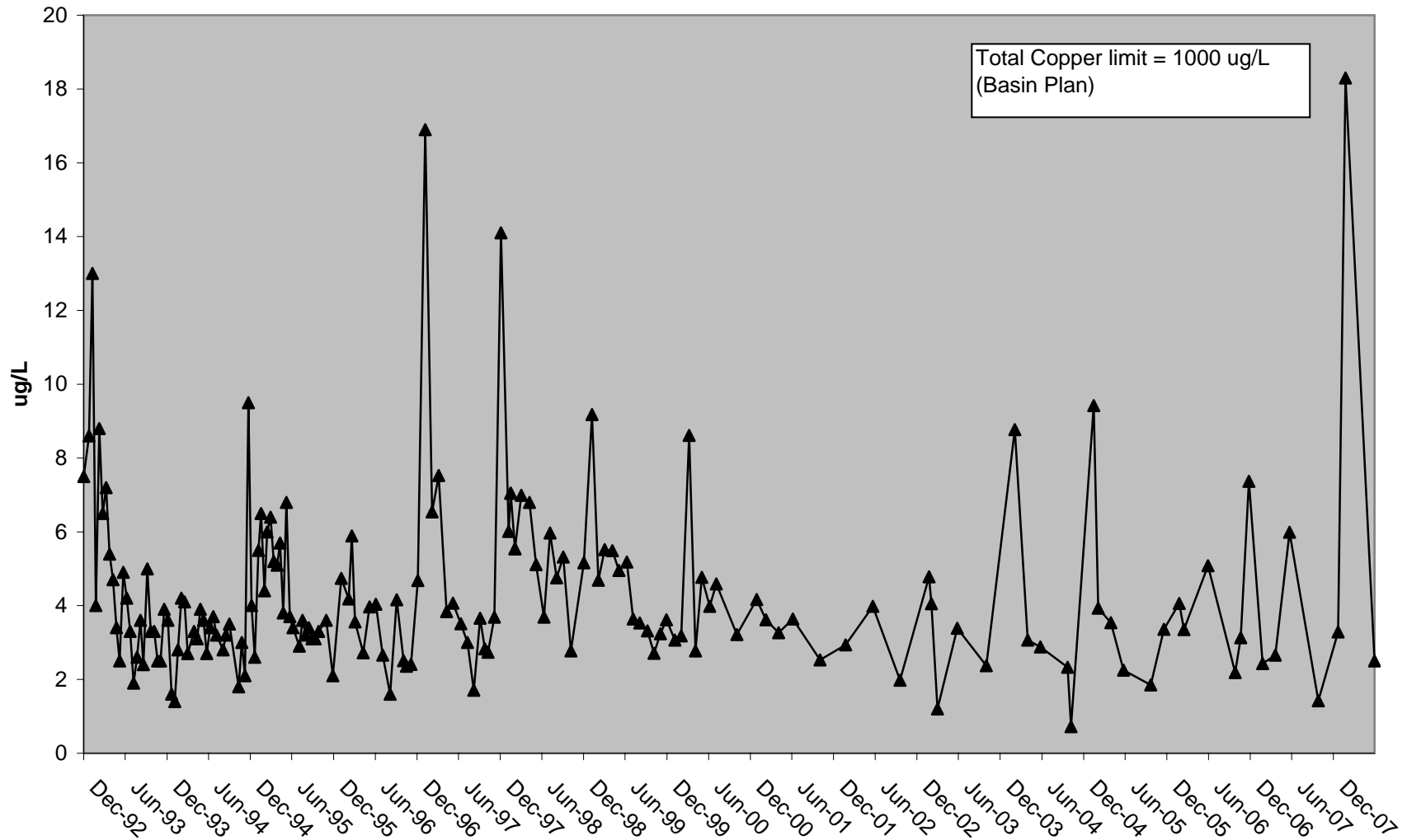
### Veterans Bridge Dissolved Copper (Cu-d)

— Trendline    △ Below Detection    ▲ Result



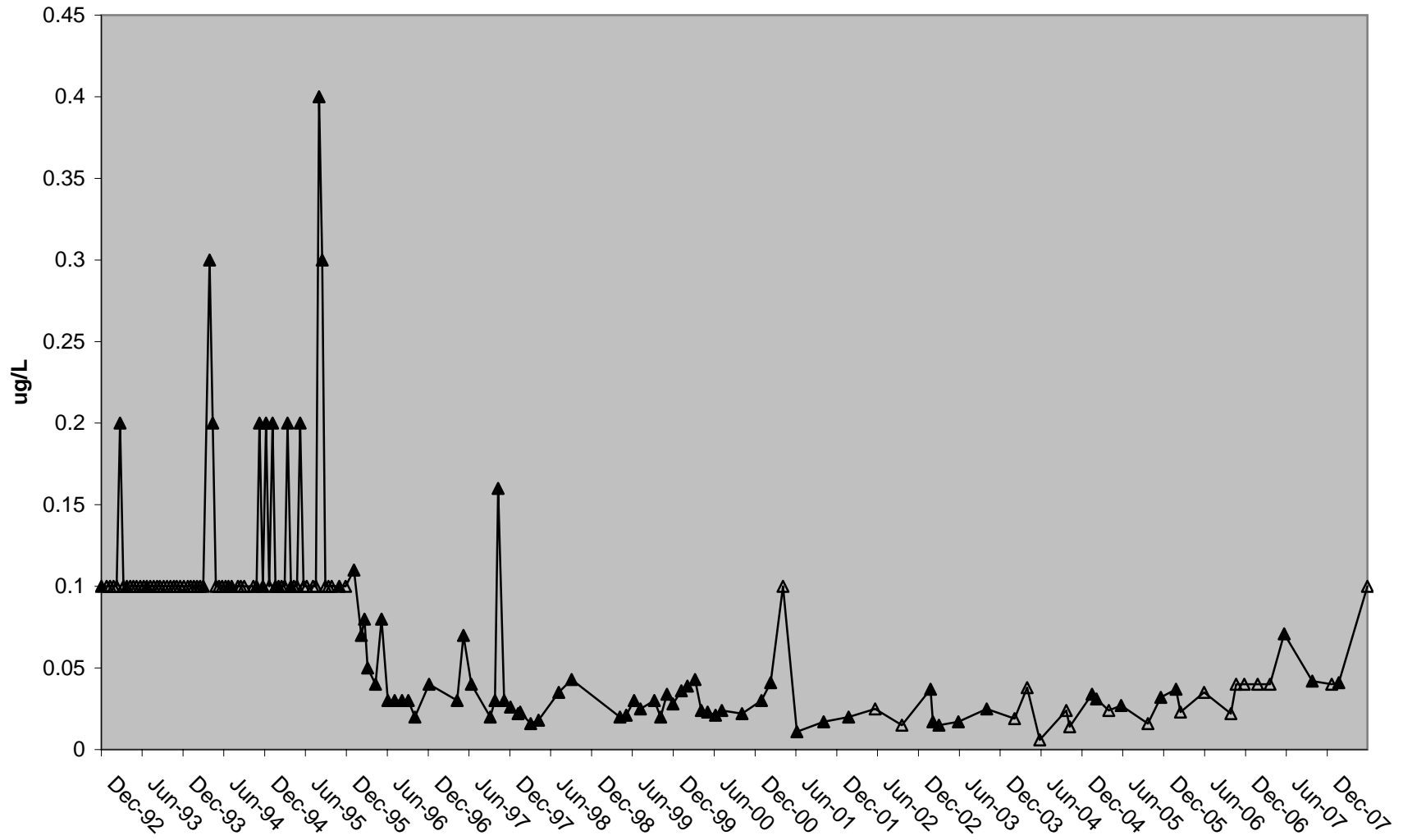
### Veterans Bridge Total Copper (Cu-T)

— Trendline   Δ Below Detection   ▲ Result



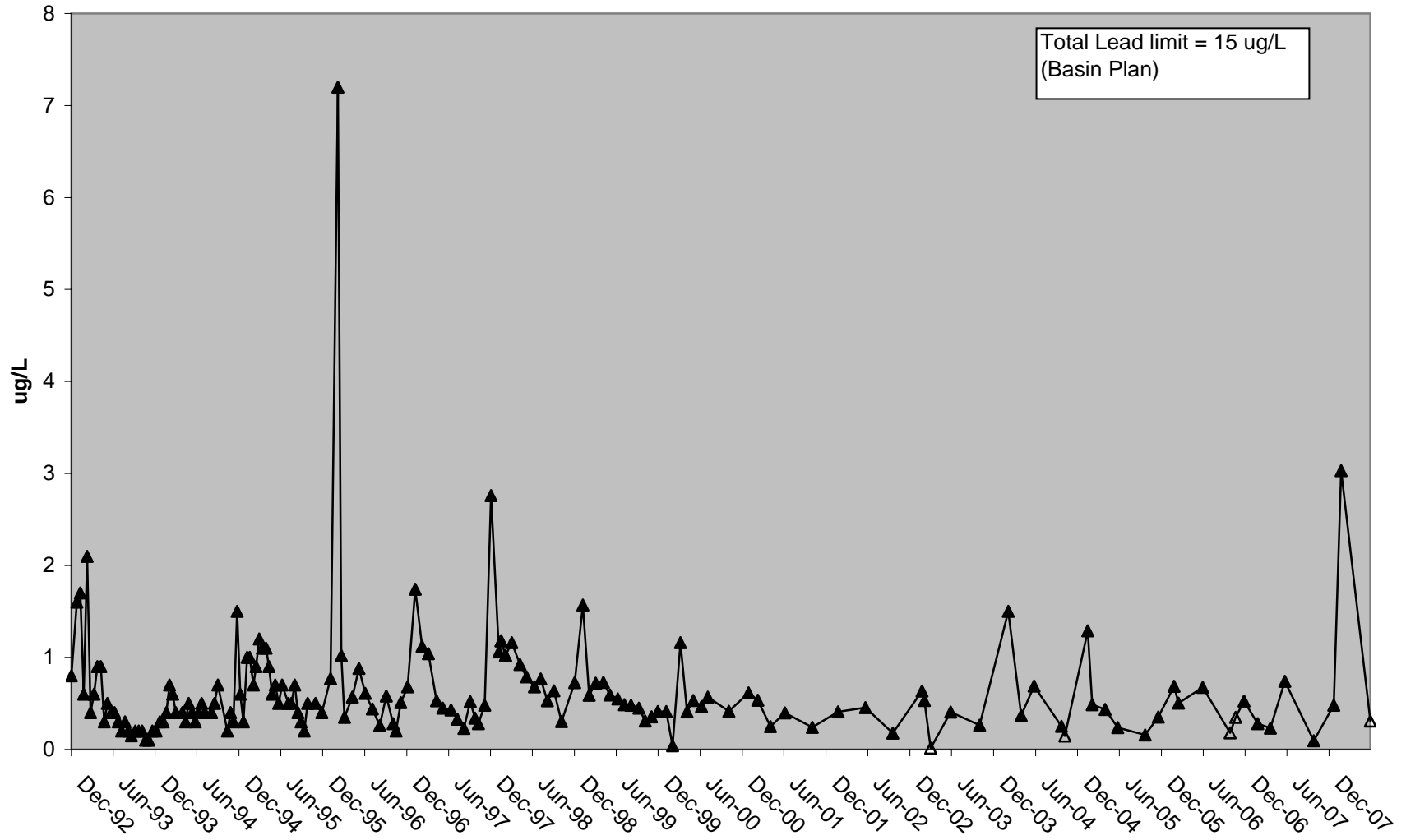
### Veterans Bridge Dissolved Lead (Pb-d)

— Trendline    △ Below Detection    ▲ Result



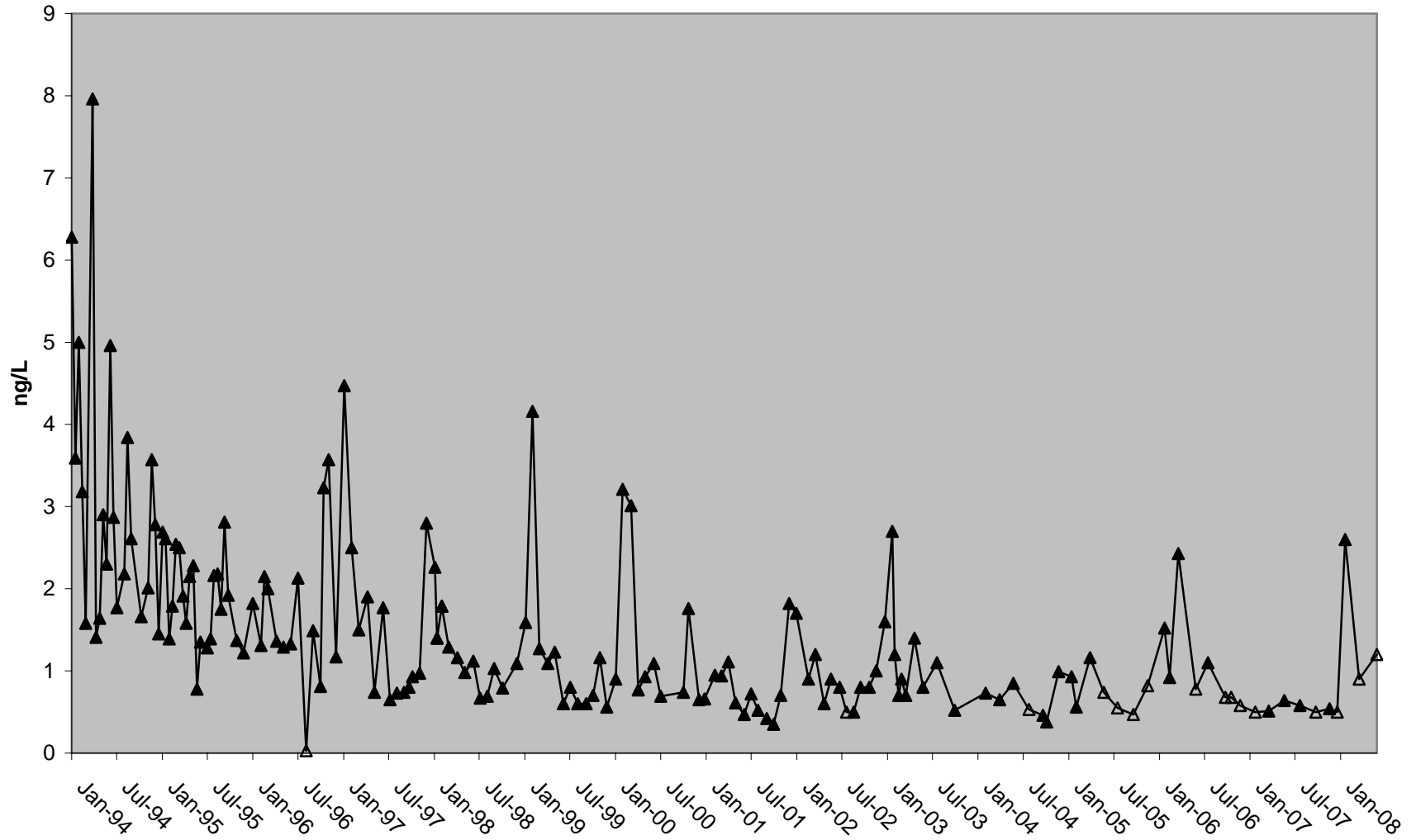
### Veterans Bridge Total Lead (Pb-T)

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



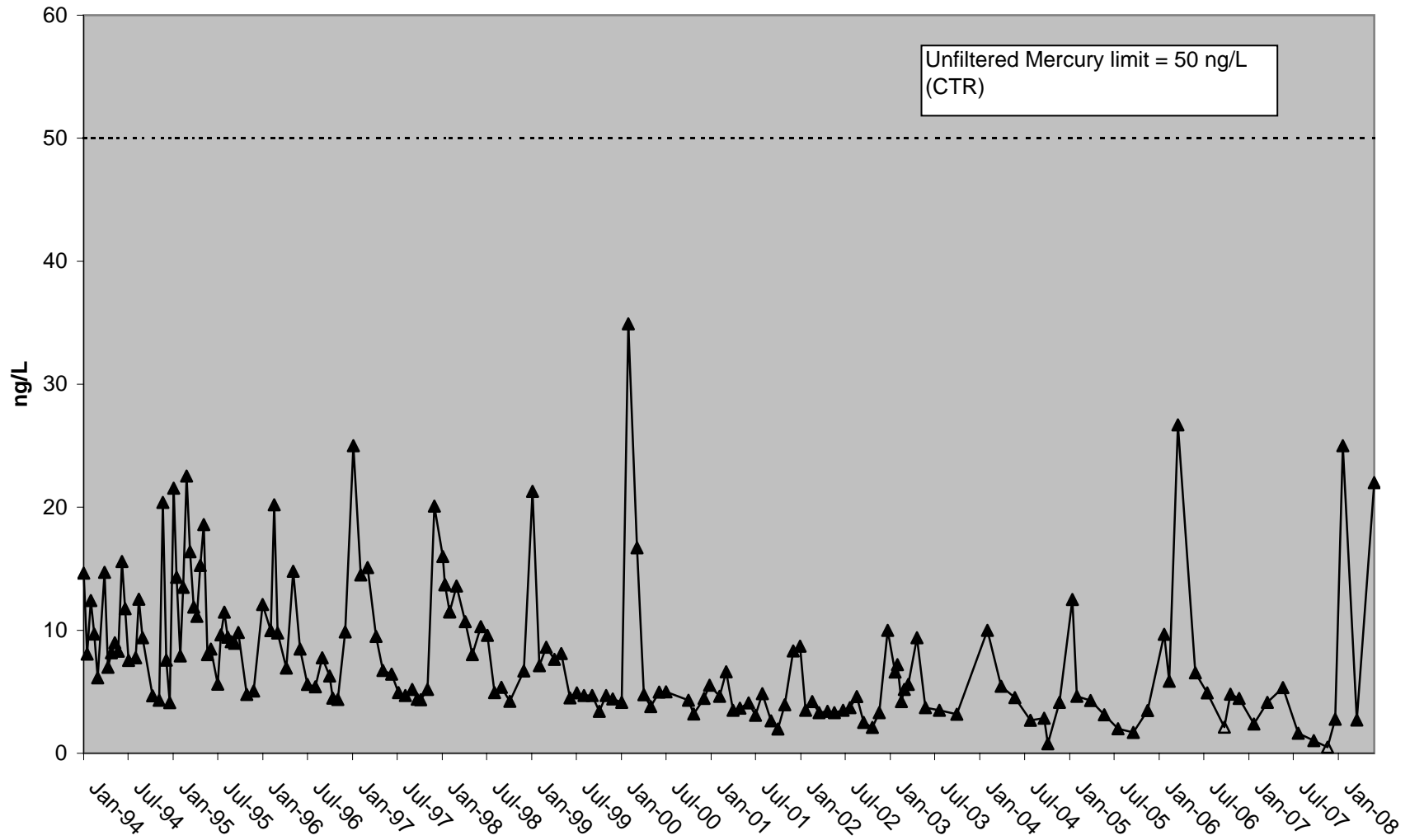
### Veterans Bridge Filtered Mercury

— Trendline    △ Below Detection    ▲ Result



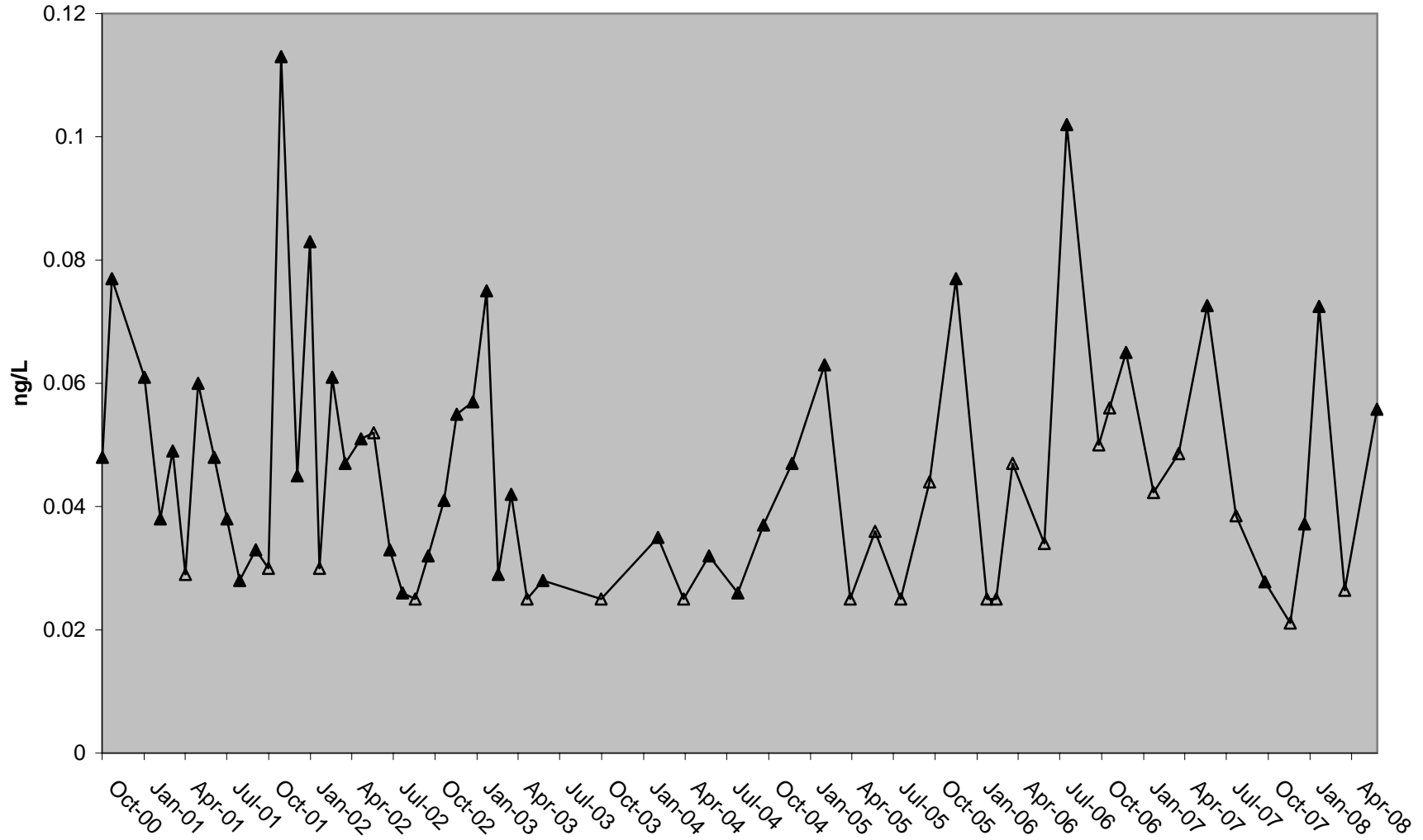
### Veterans Bridge Unfiltered Mercury

— Trendline    △ Below Detection    ▲ Result    - - - - - Lowest Objective



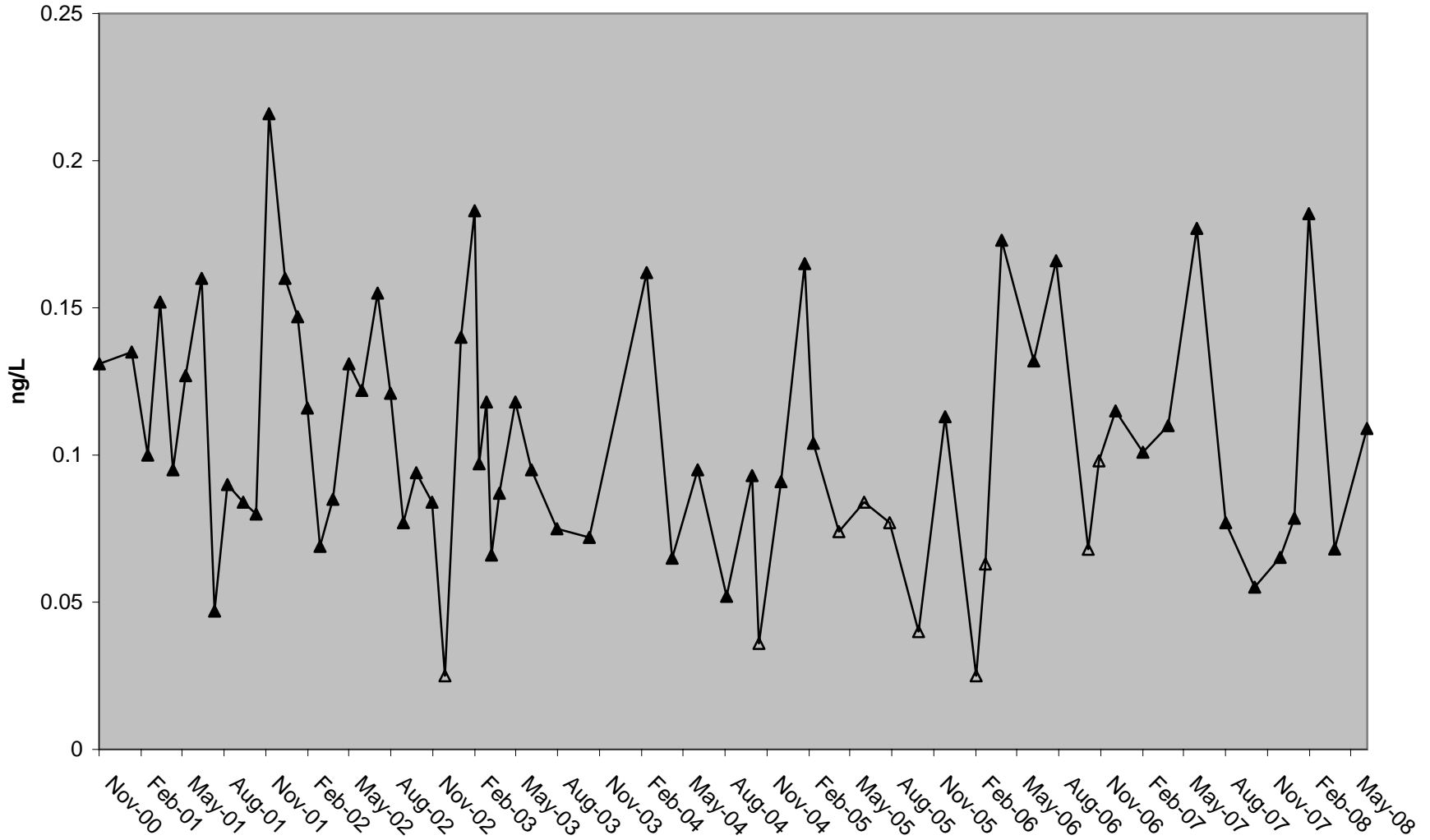
### Veterans Bridge Filtered Methyl Mercury

— Trendline    △ Below Detection    ▲ Result



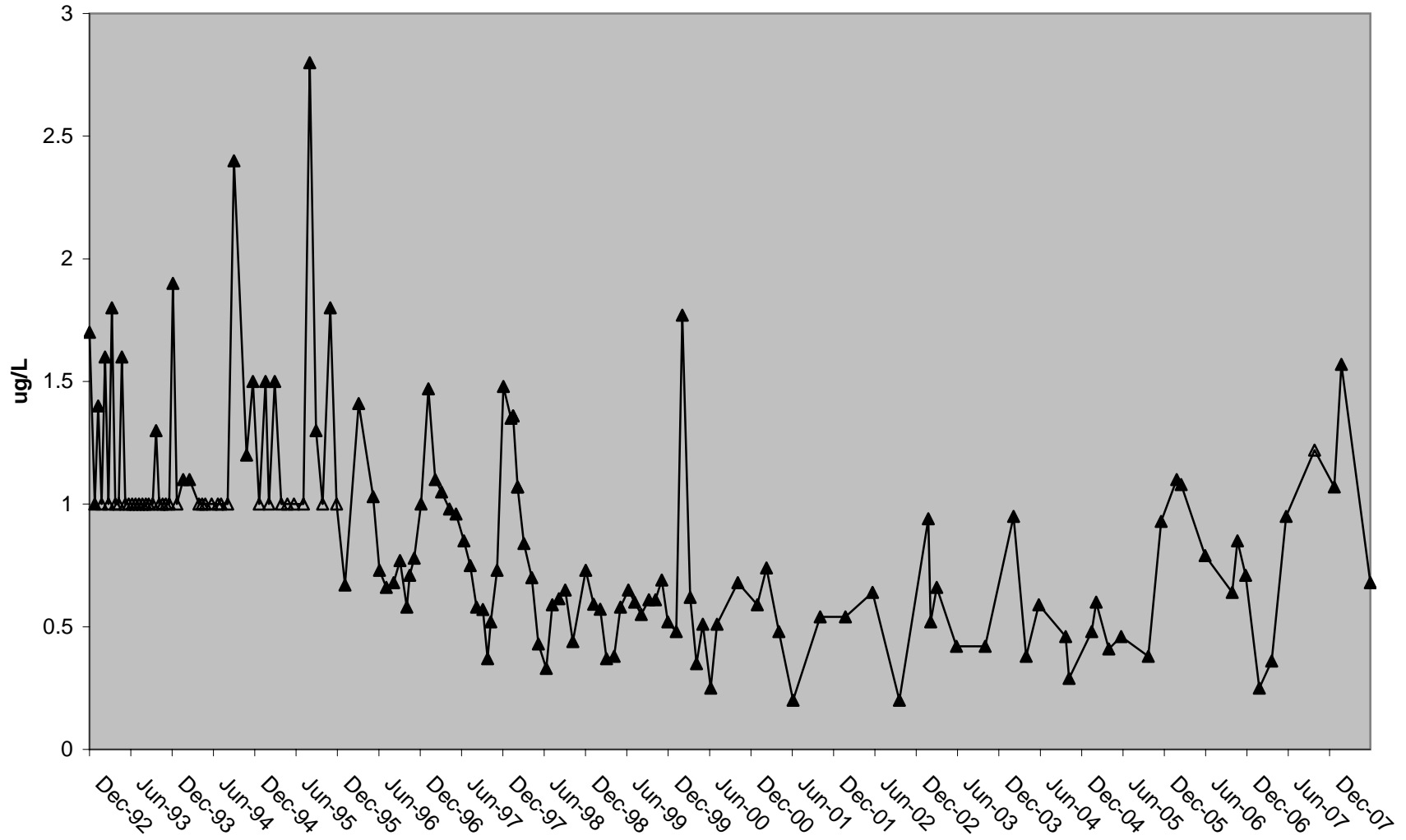
### Veterans Unfiltered Methyl Mercury

— Trendline    △ Below Detection    ▲ Result



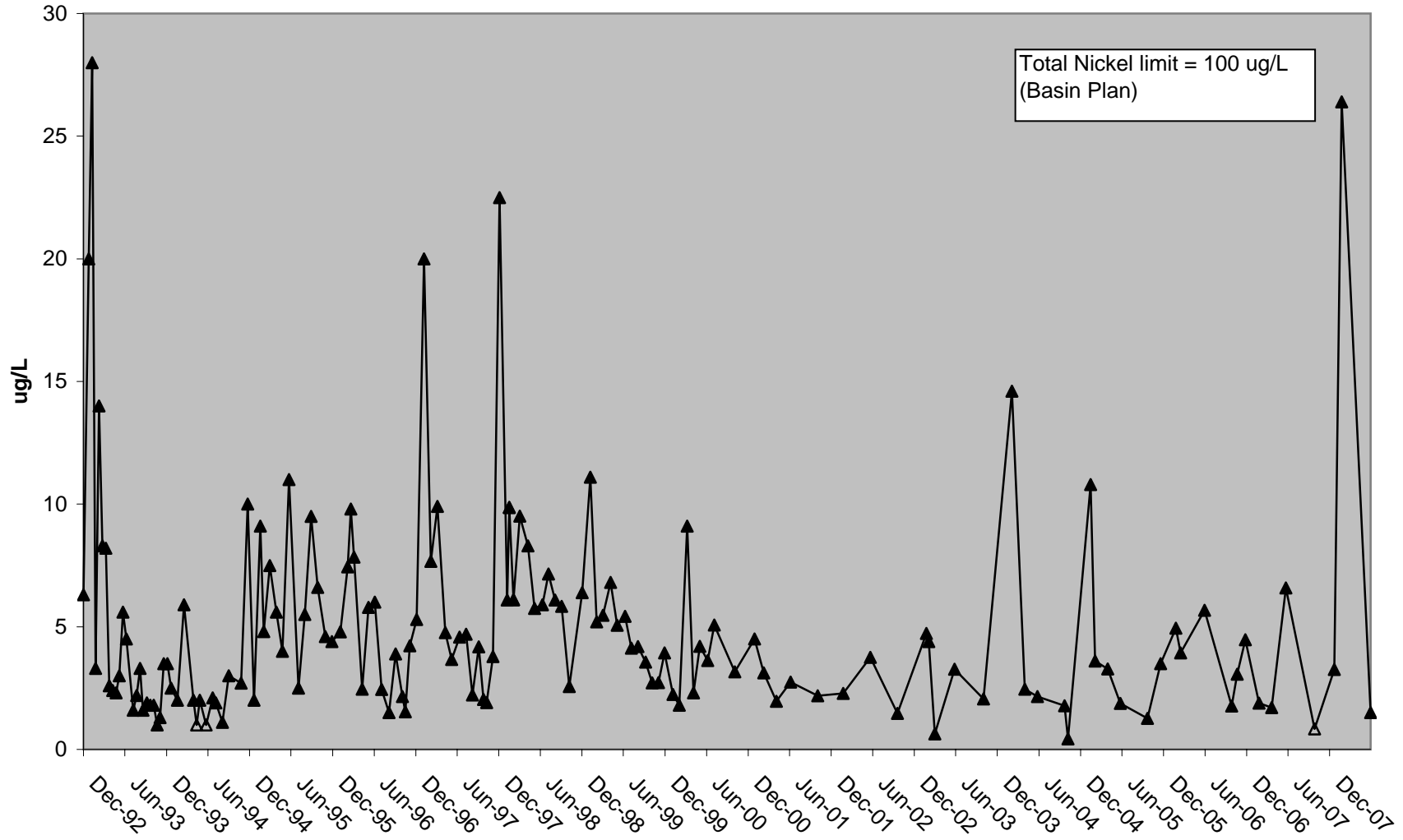
### Veterans Bridge Dissolved Nickel (Ni-d)

— Trendline    △ Below Detection    ▲ Result



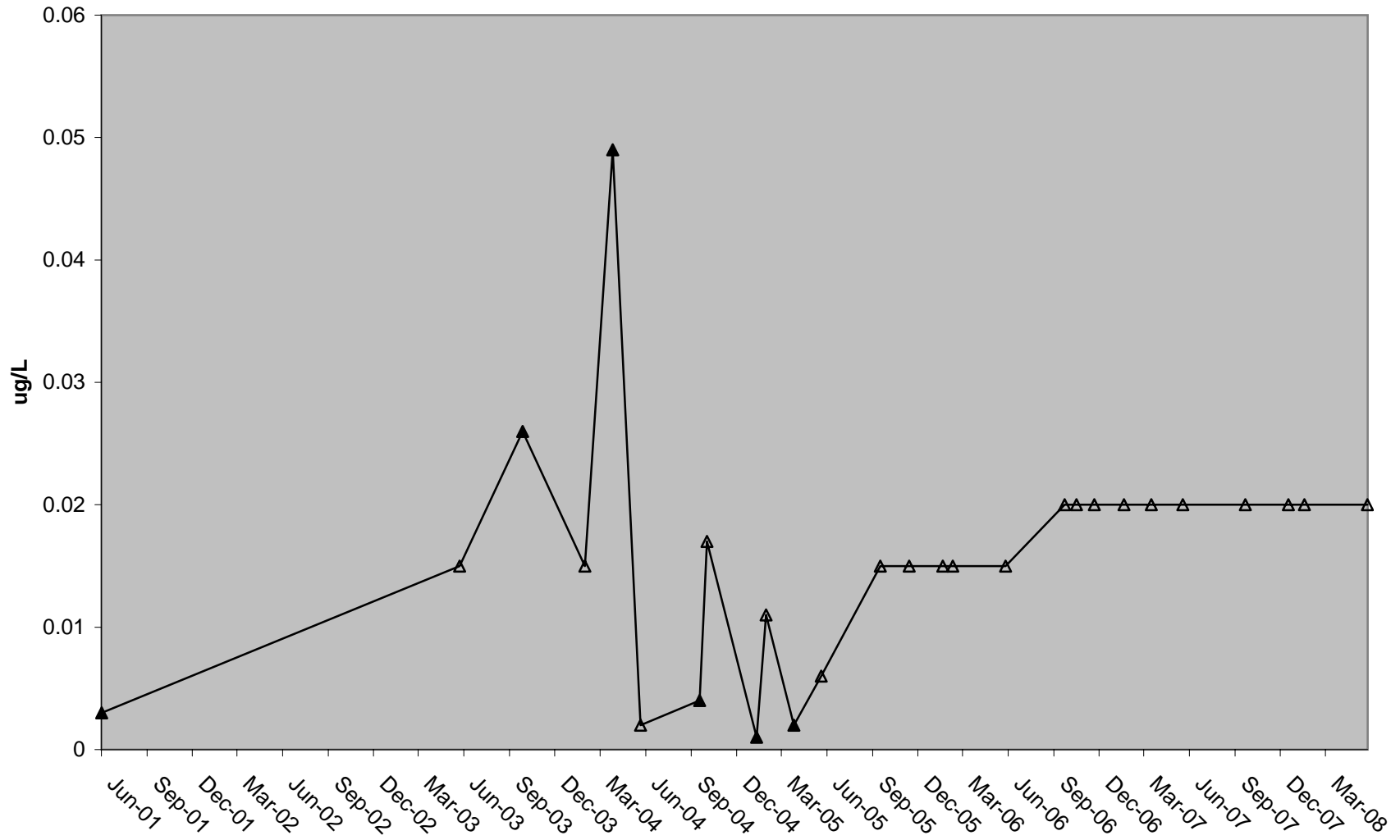
### Veterans Bridge Total Nickel (Ni-T)

— Trendline    △ Below Detection    ▲ Result



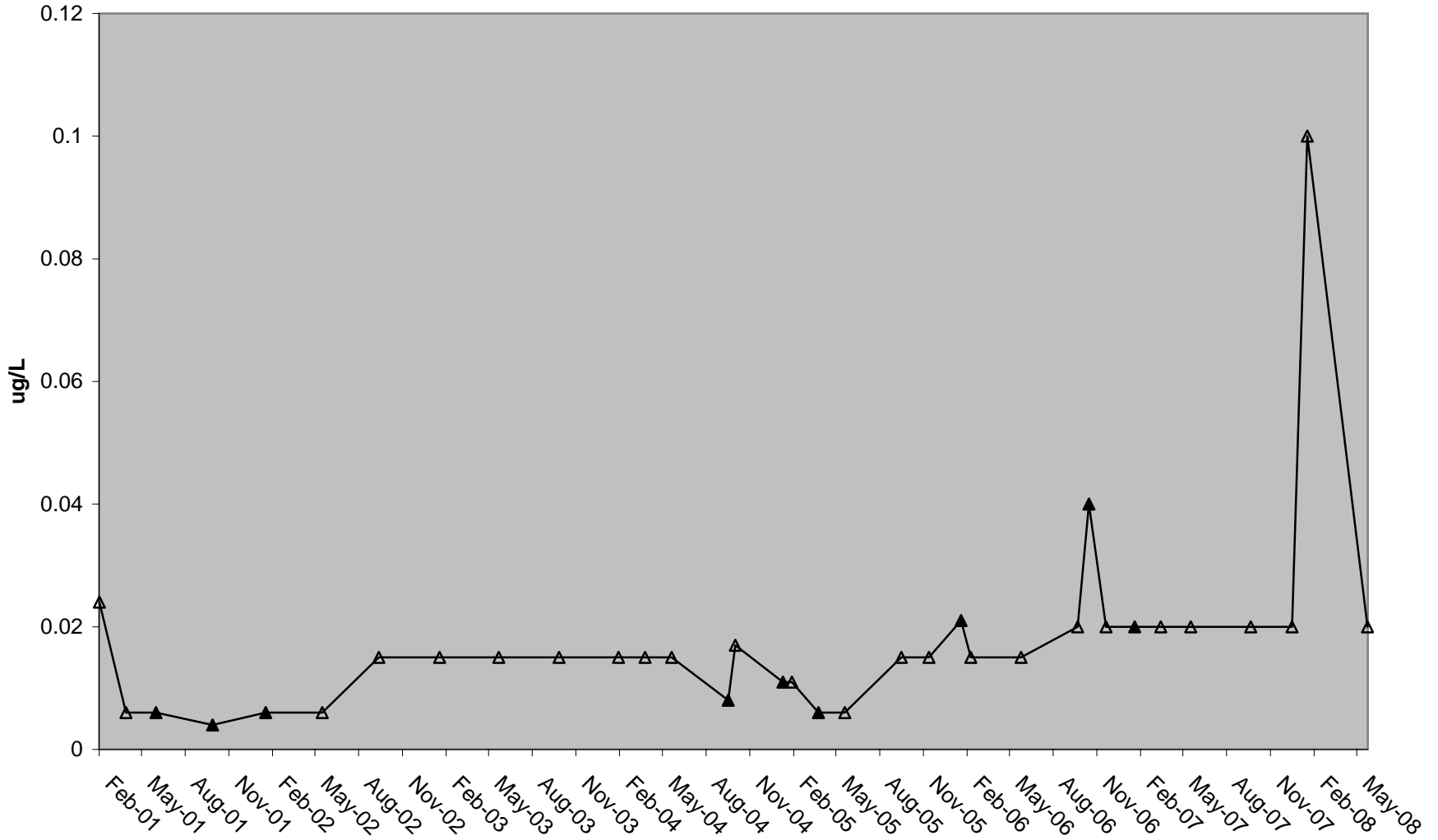
### Veterans Bridge Dissolved Silver (Ag-d)

— Trendline    △ Below Detection    ▲ Result



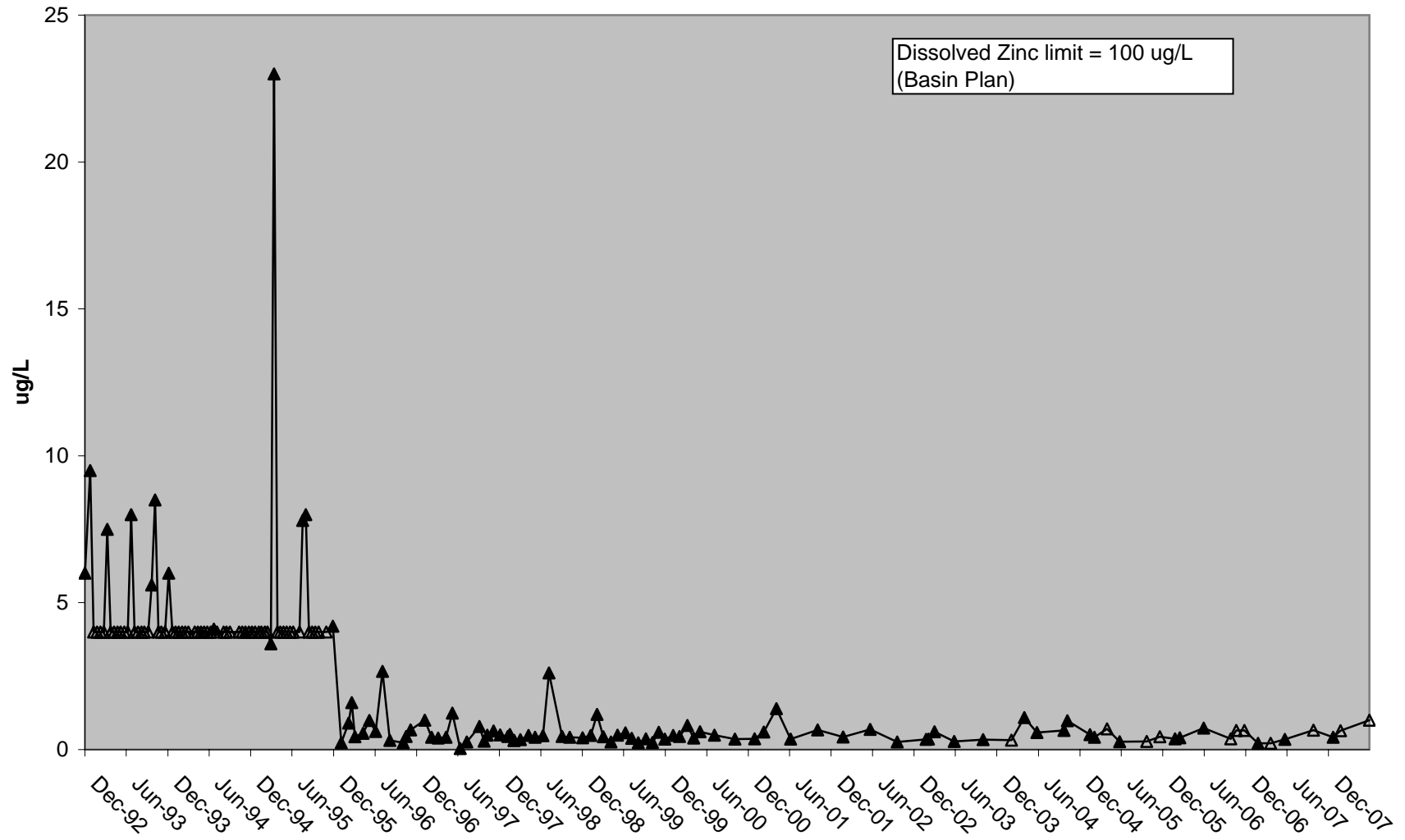
### Veterans Bridge Total Silver (Ag-T)

— Trendline    △ Below Detection    ▲ Result



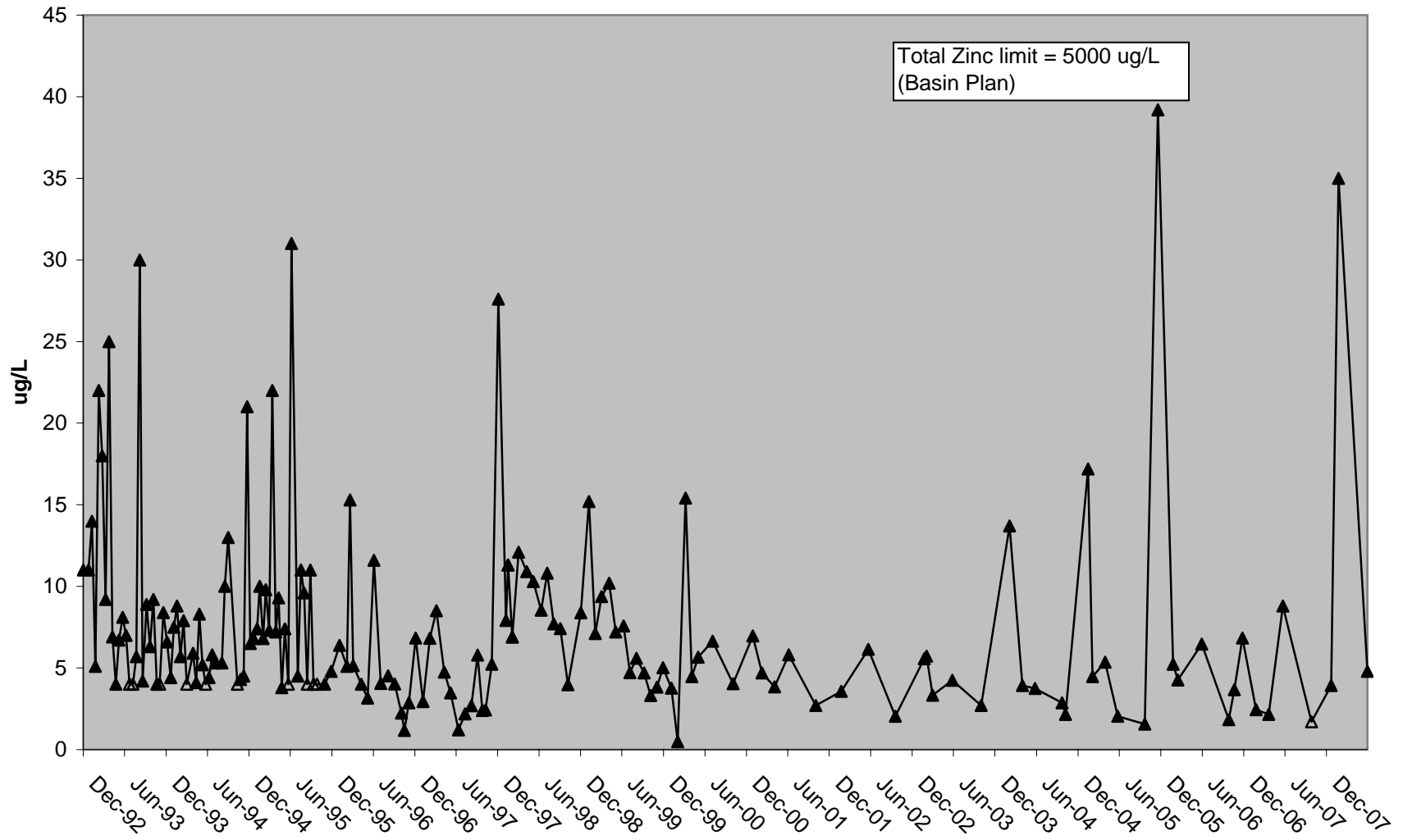
### Veterans Bridge Dissolved Zinc (Zn-d)

— Trendline    △ Below Detection    ▲ Result



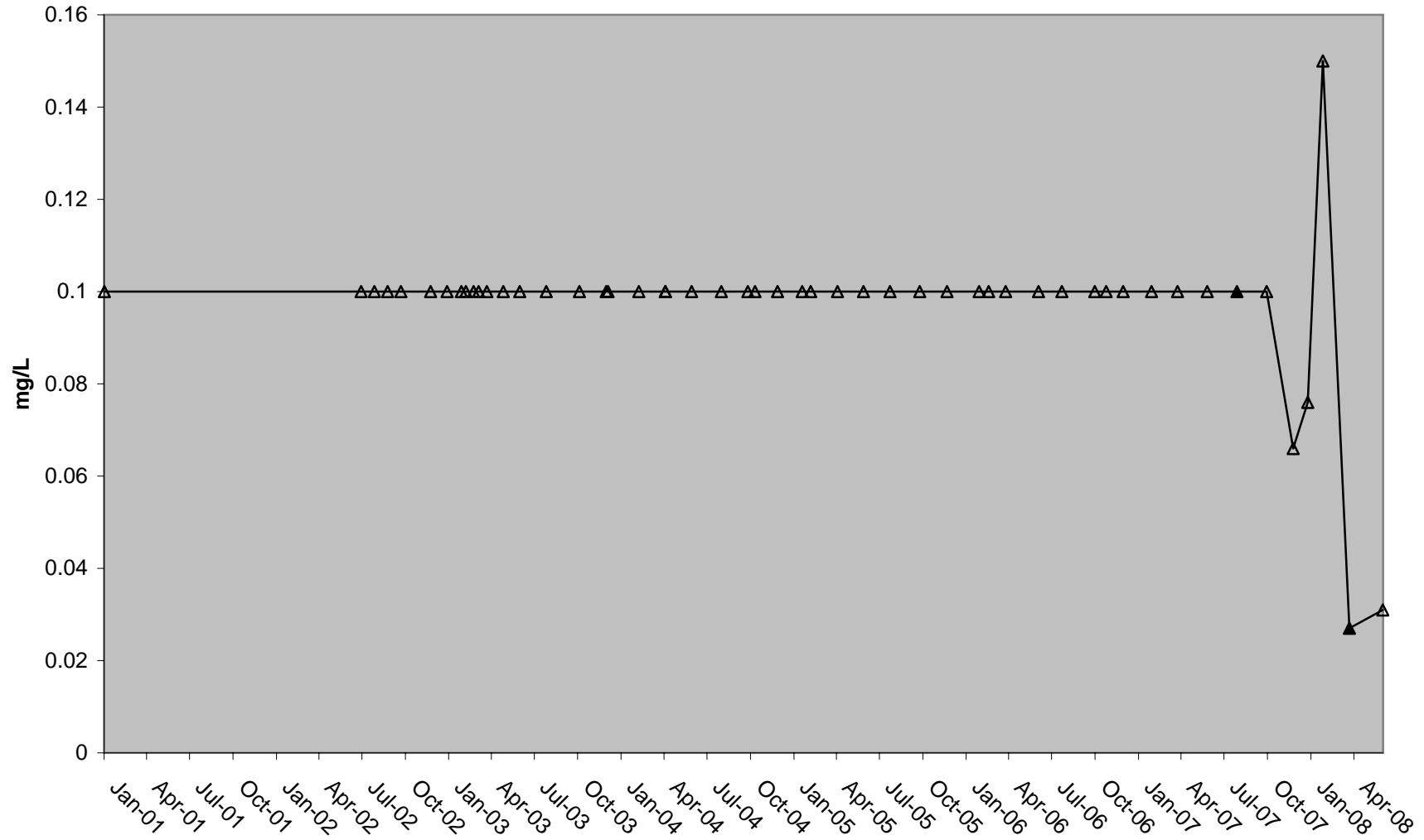
### Veterans Bridge Total Zinc (Zn-T)

— Trendline    △ Below Detection    ▲ Result



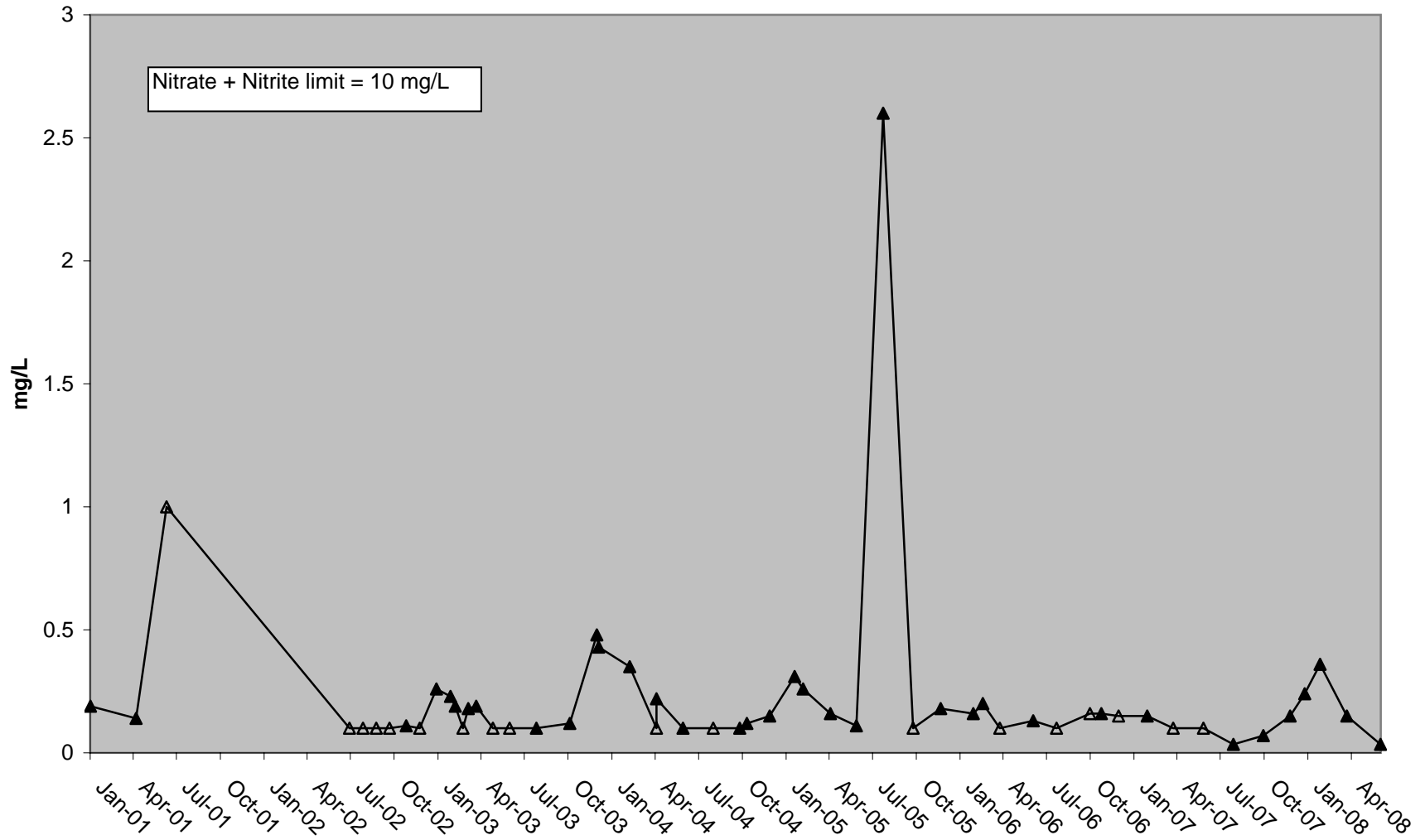
### Veterans Ammonia (NH<sub>3</sub>-N)

— Trendline    △ Below Detection    ▲ Result



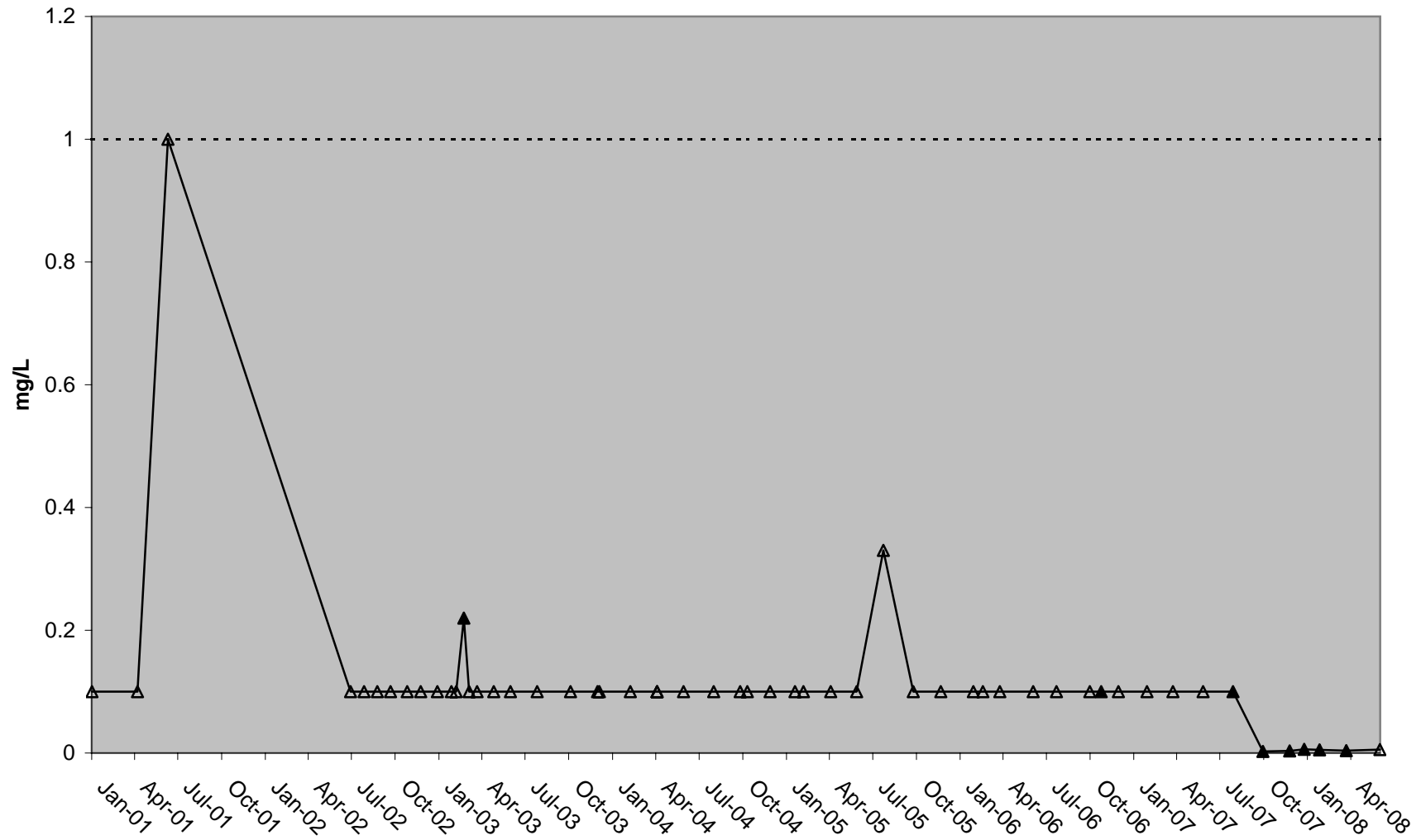
### Veterans Bridge Nitrate (NO<sub>3</sub>-N)

— Trendline    △ Below Detection    ▲ Result



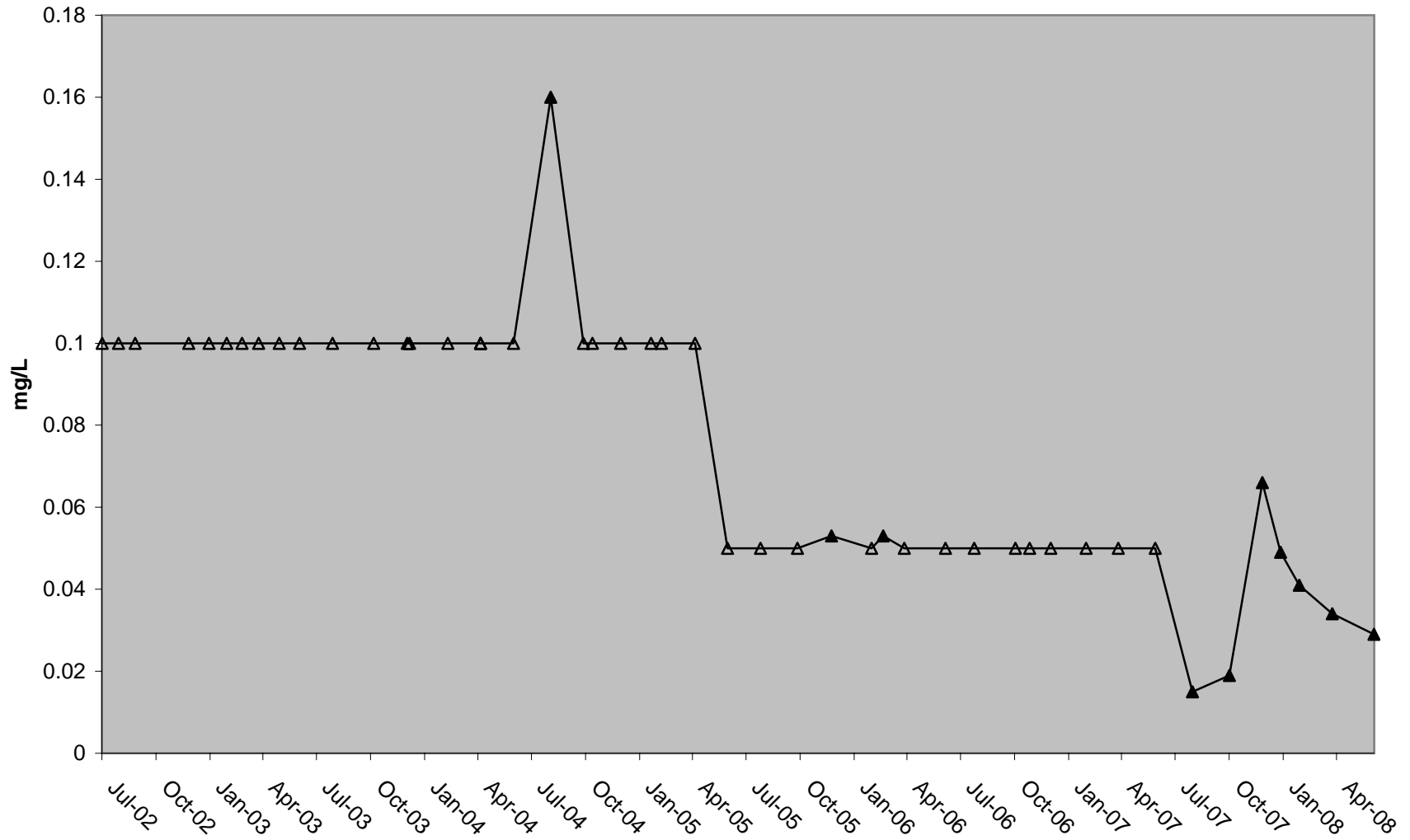
### Veterans Bridge Nitrite (NO<sub>2</sub>-N)

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



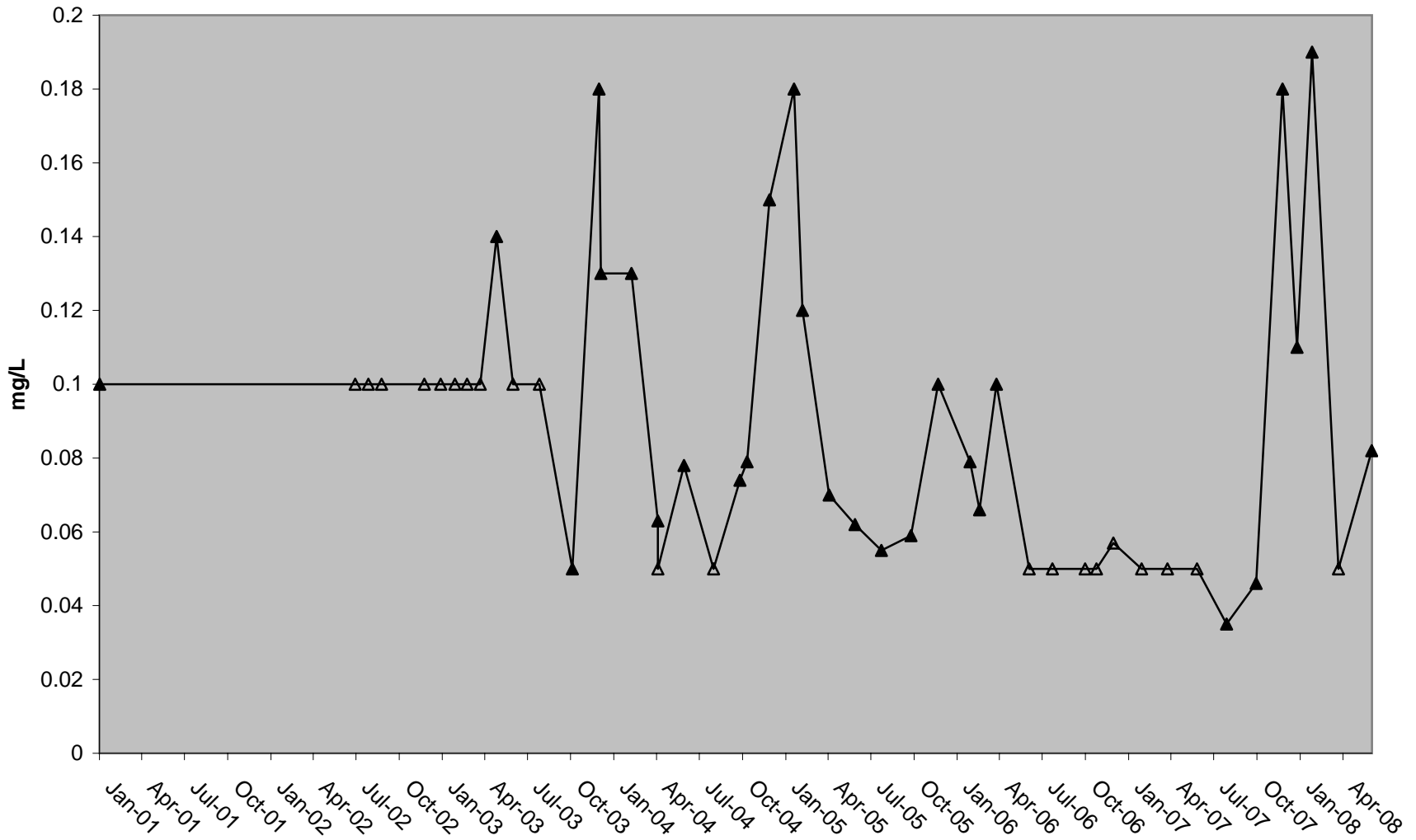
### Veterans Bridge Dissolved Ortho-phosphate

— Trendline    △ Below Detection    ▲ Result



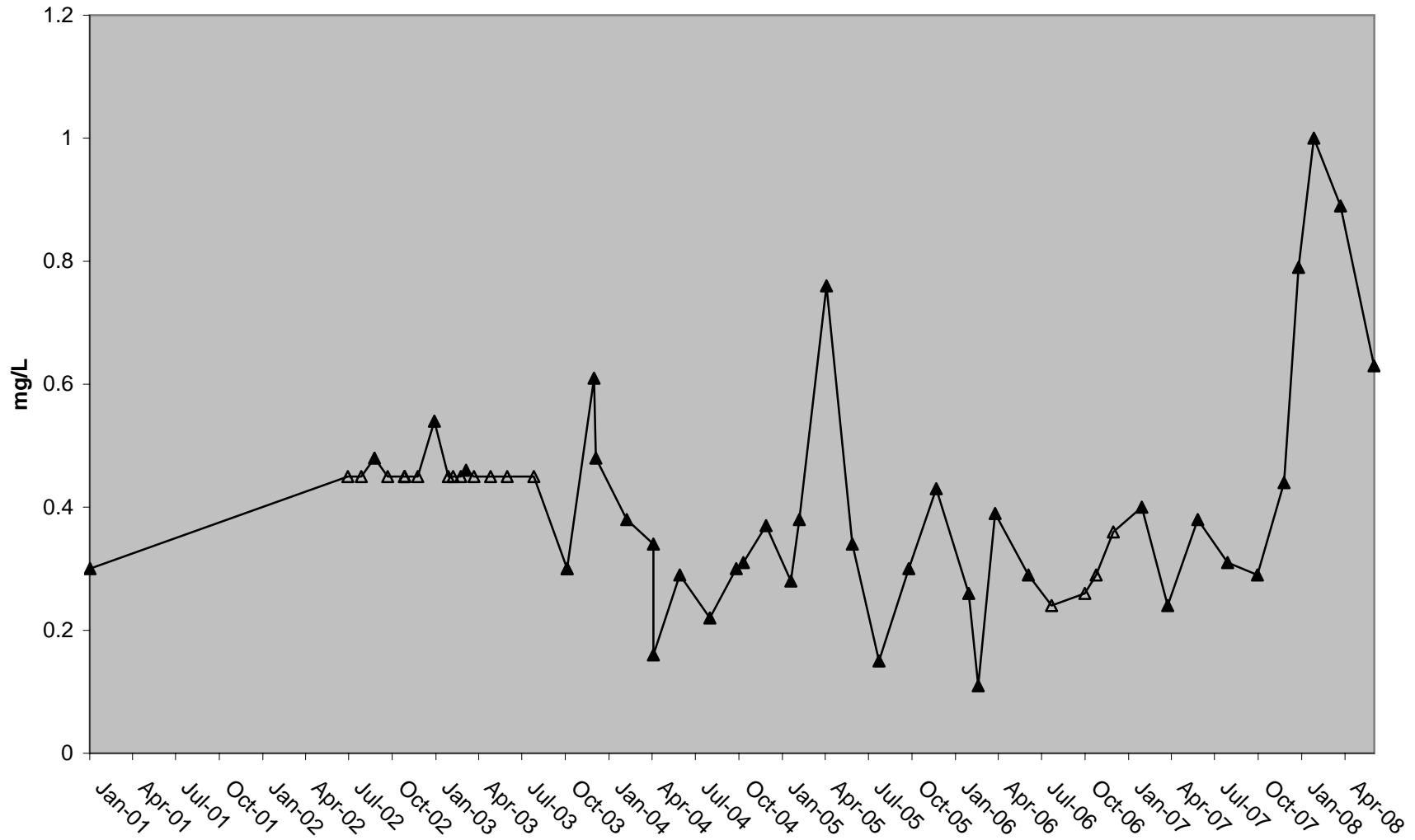
### Veterans Bridge Total Phosphorus (TP)

— Trendline    Δ Below Detection    ▲ Result

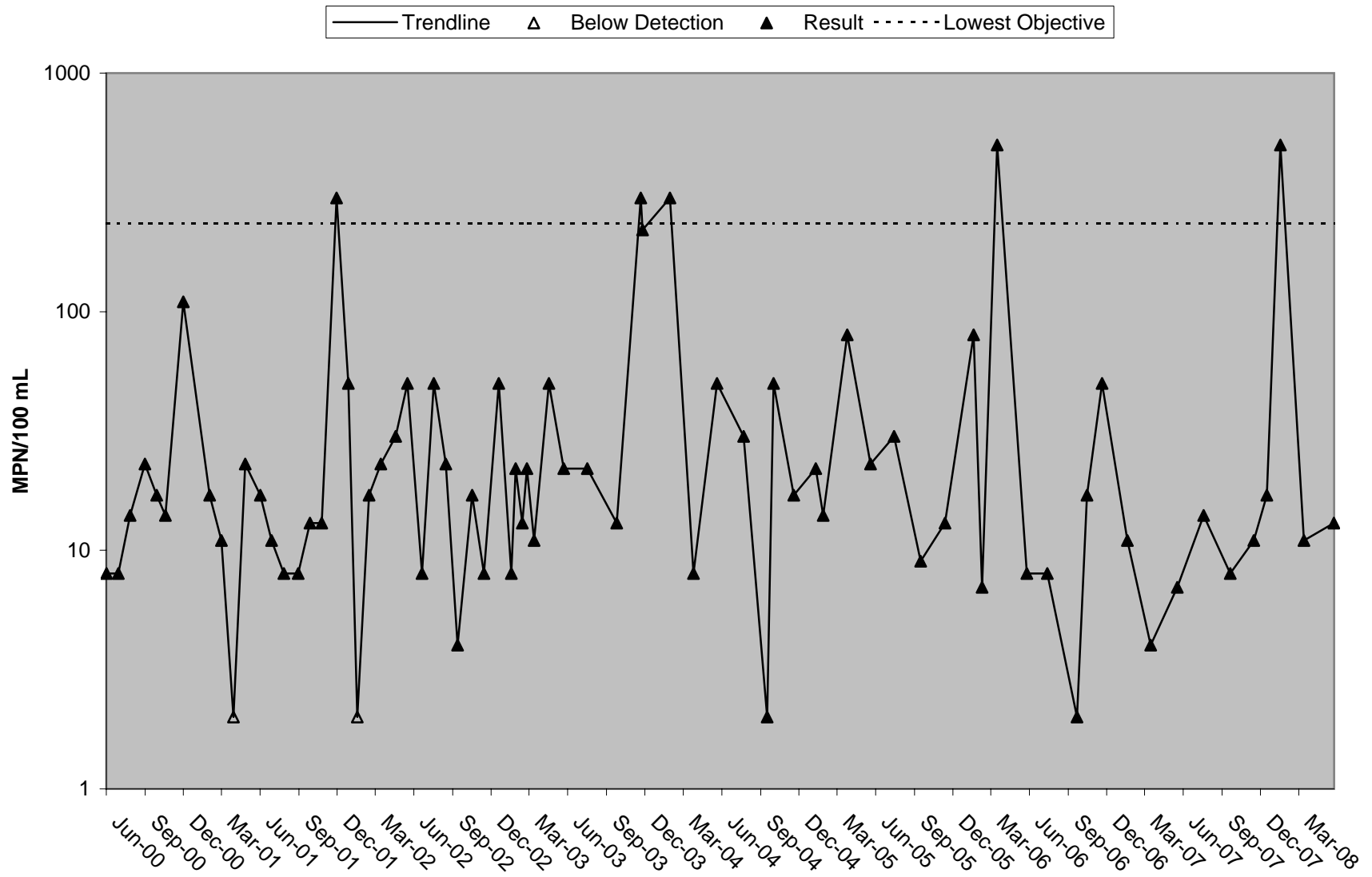


### Veterans Bridge Total Kjeldahl Nitrogen (TKN)

— Trendline    △ Below Detection    ▲ Result

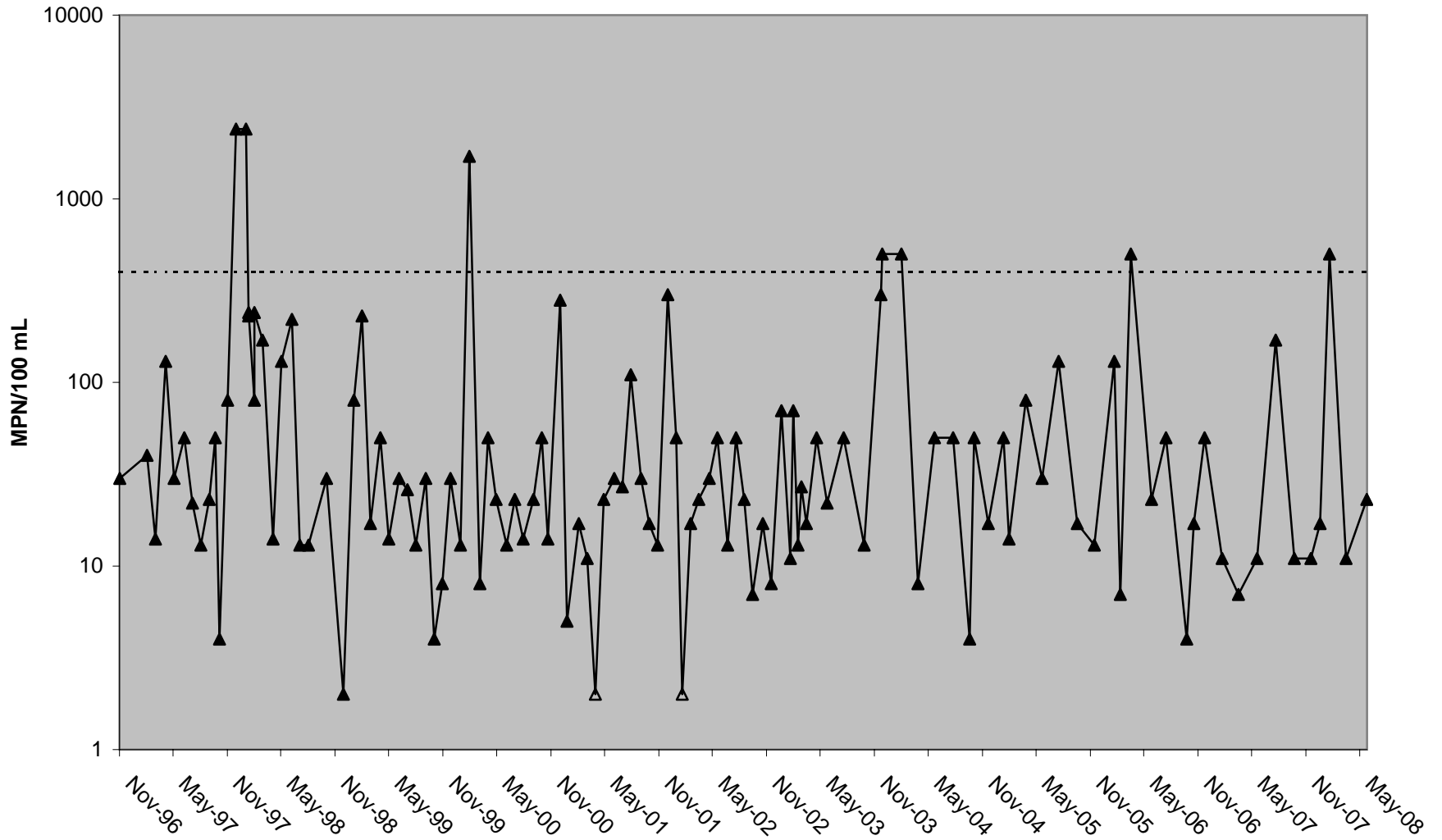


### Veterans Bridge *E. coli*



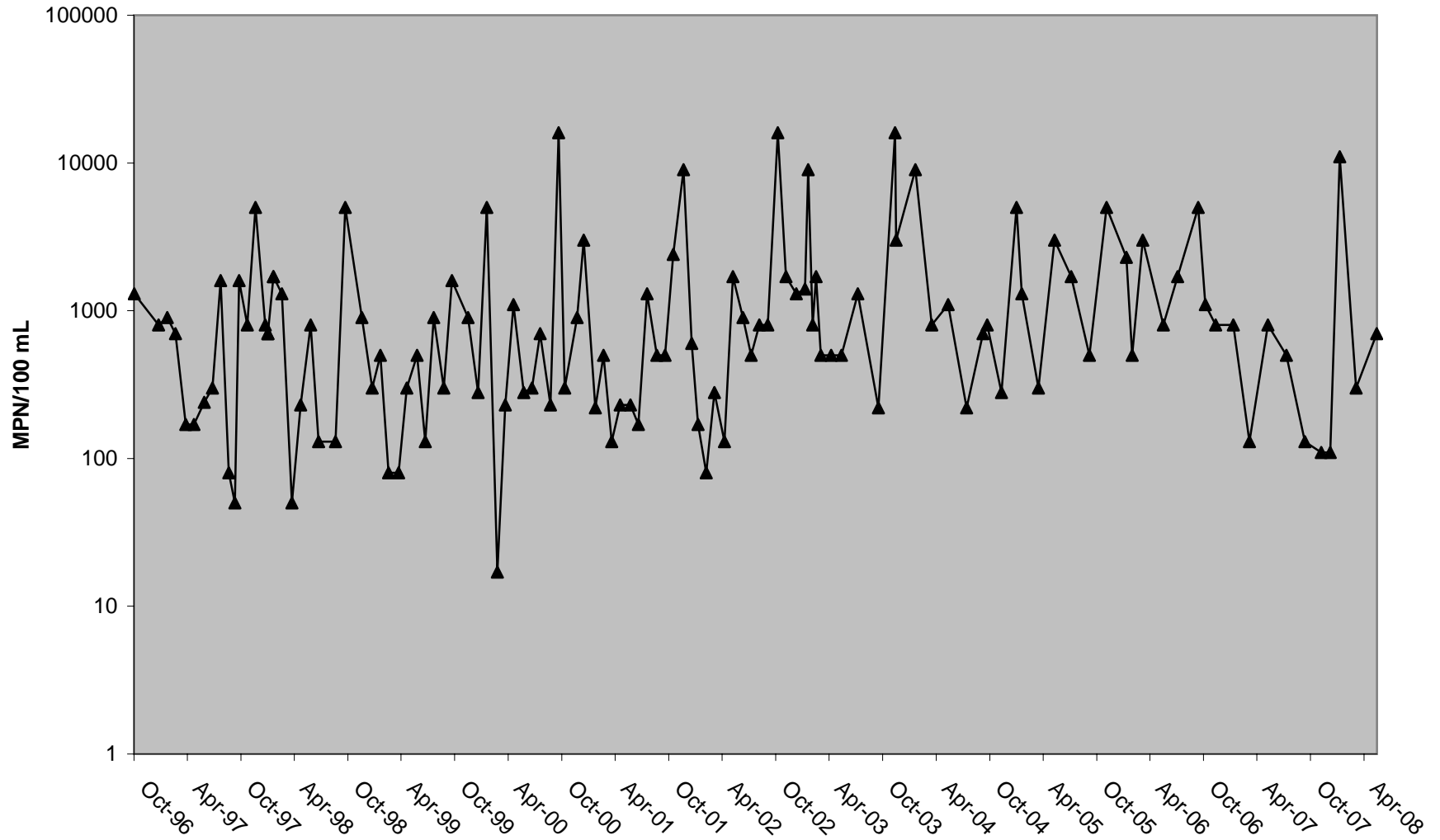
### Veterans Bridge Fecal Coliform

— Trendline    △ Below Detection    ▲ Result    - - - - - Lowest Objective



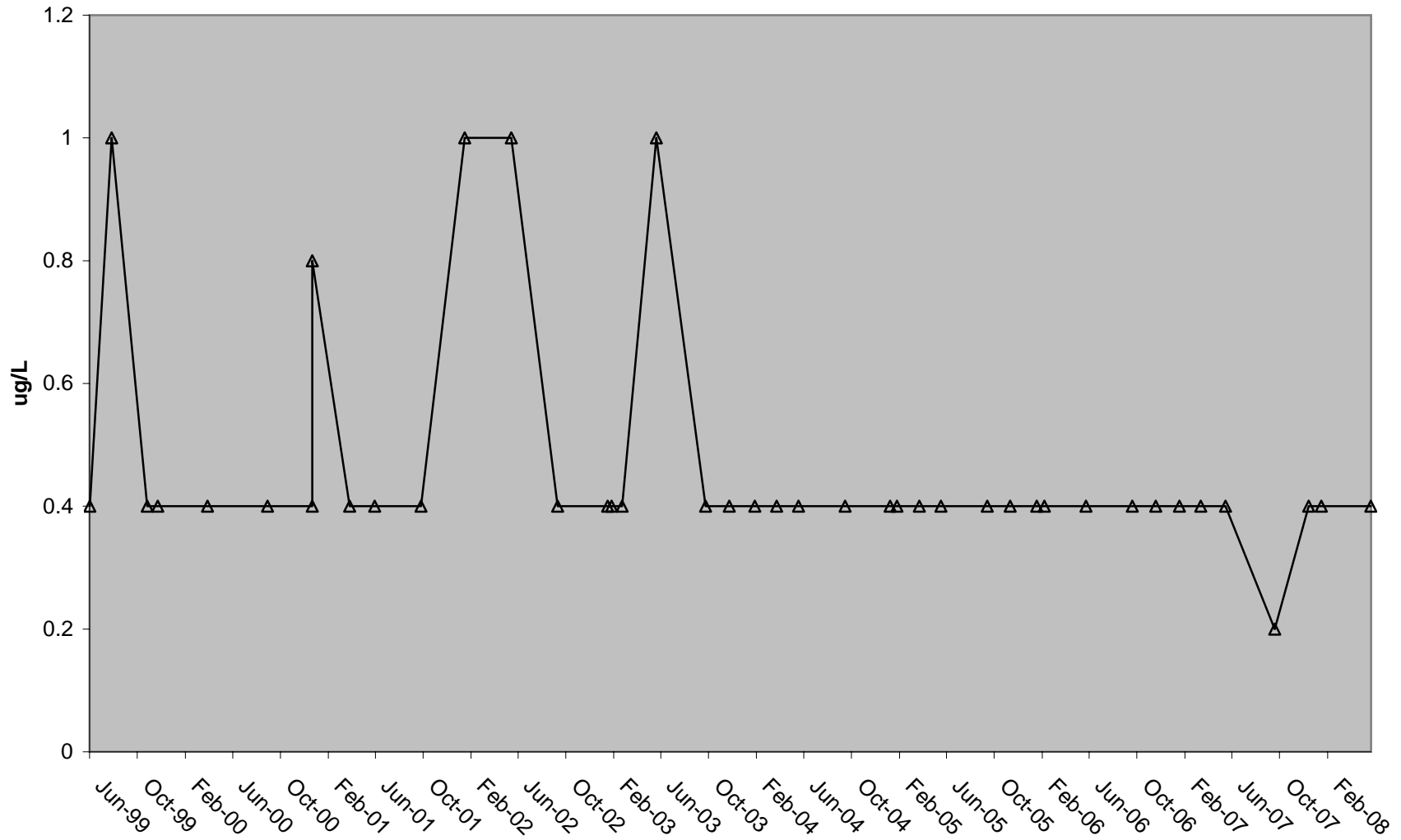
### Veterans Bridge Total Coliform

— Trendline    △ Below Detection    ▲ Result



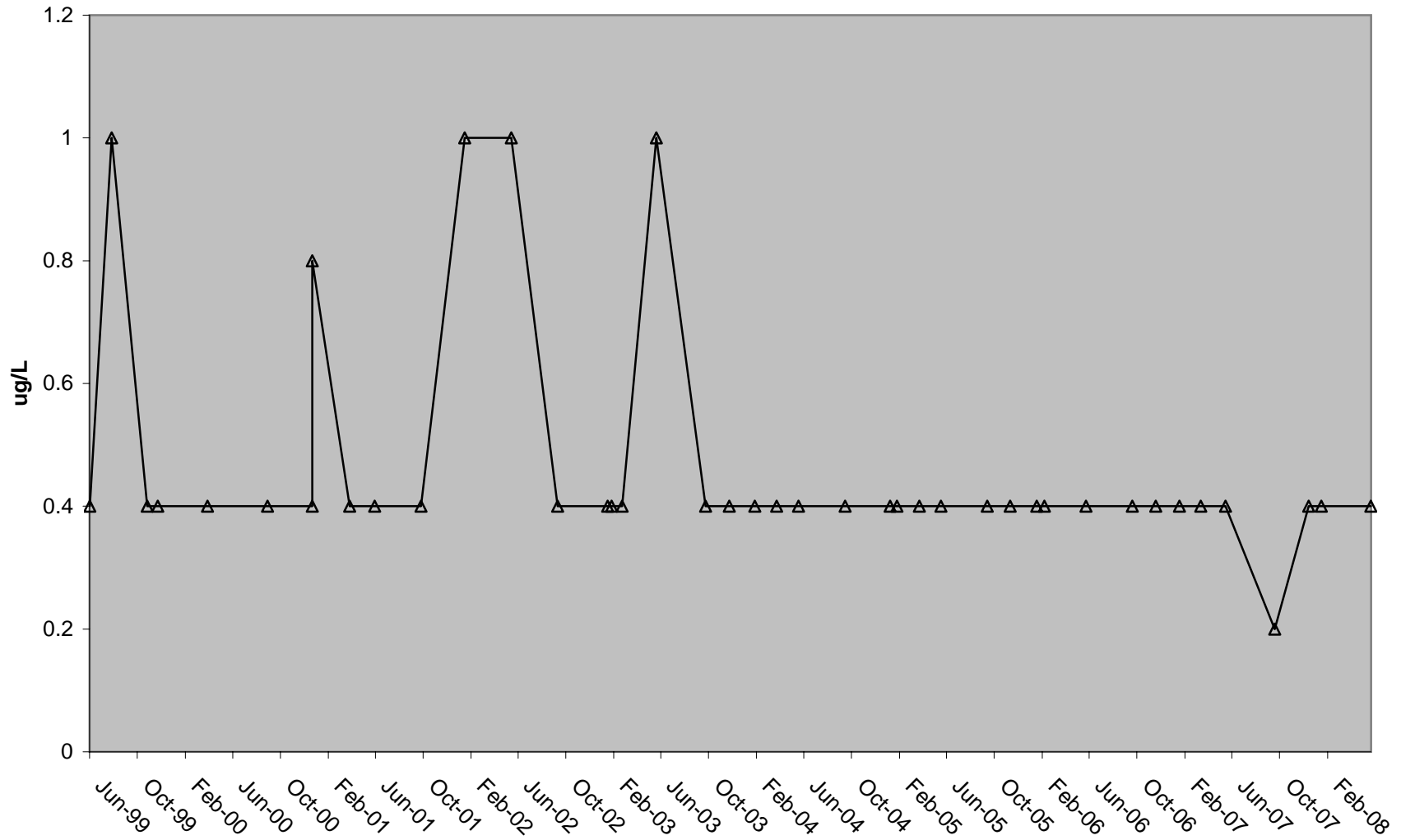
### Veterans Bridge Aldicarb

— Trendline    △ Below Detection    ▲ Result



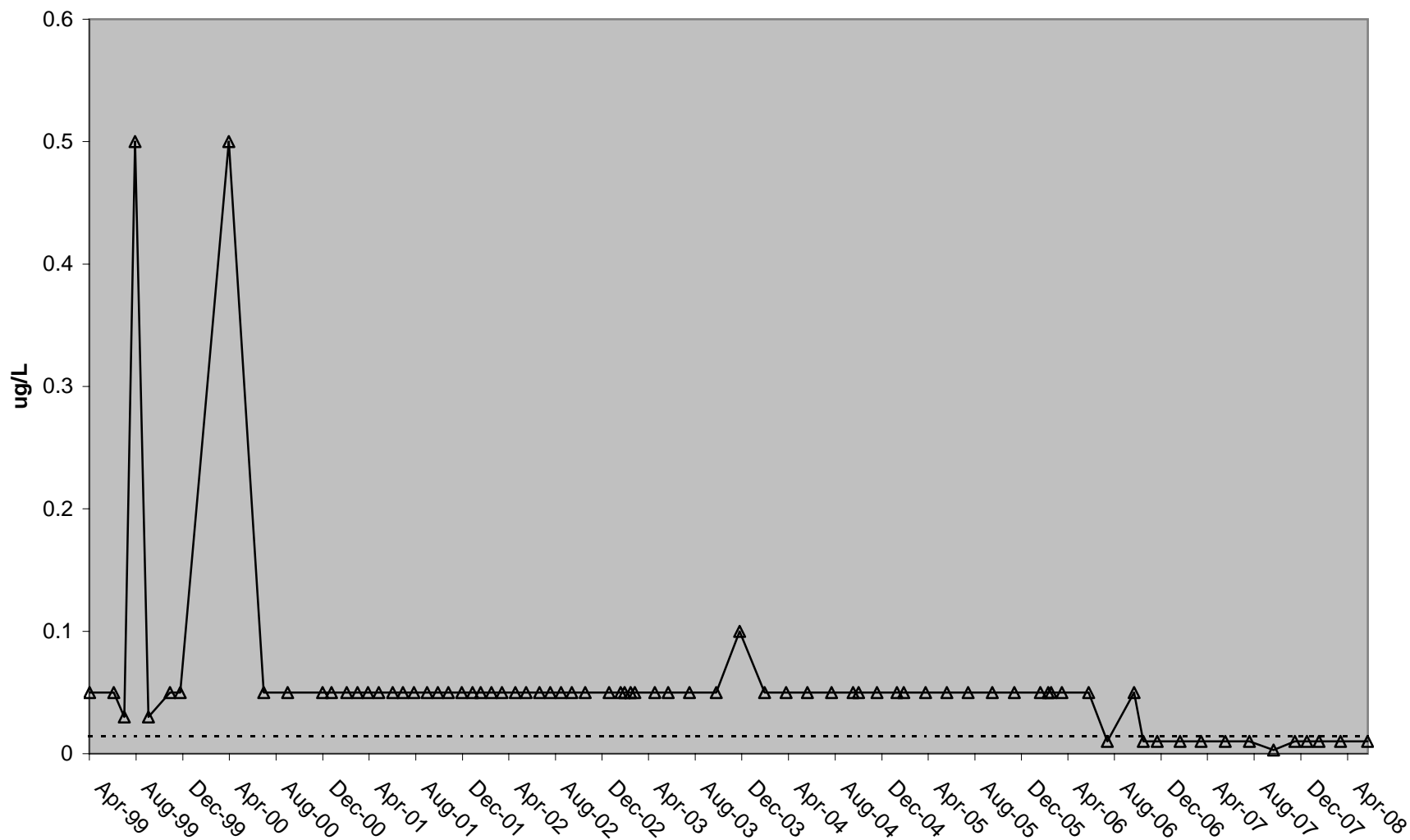
# Veterans Bridge Propoxur

— Trendline    △ Below Detection    ▲ Result



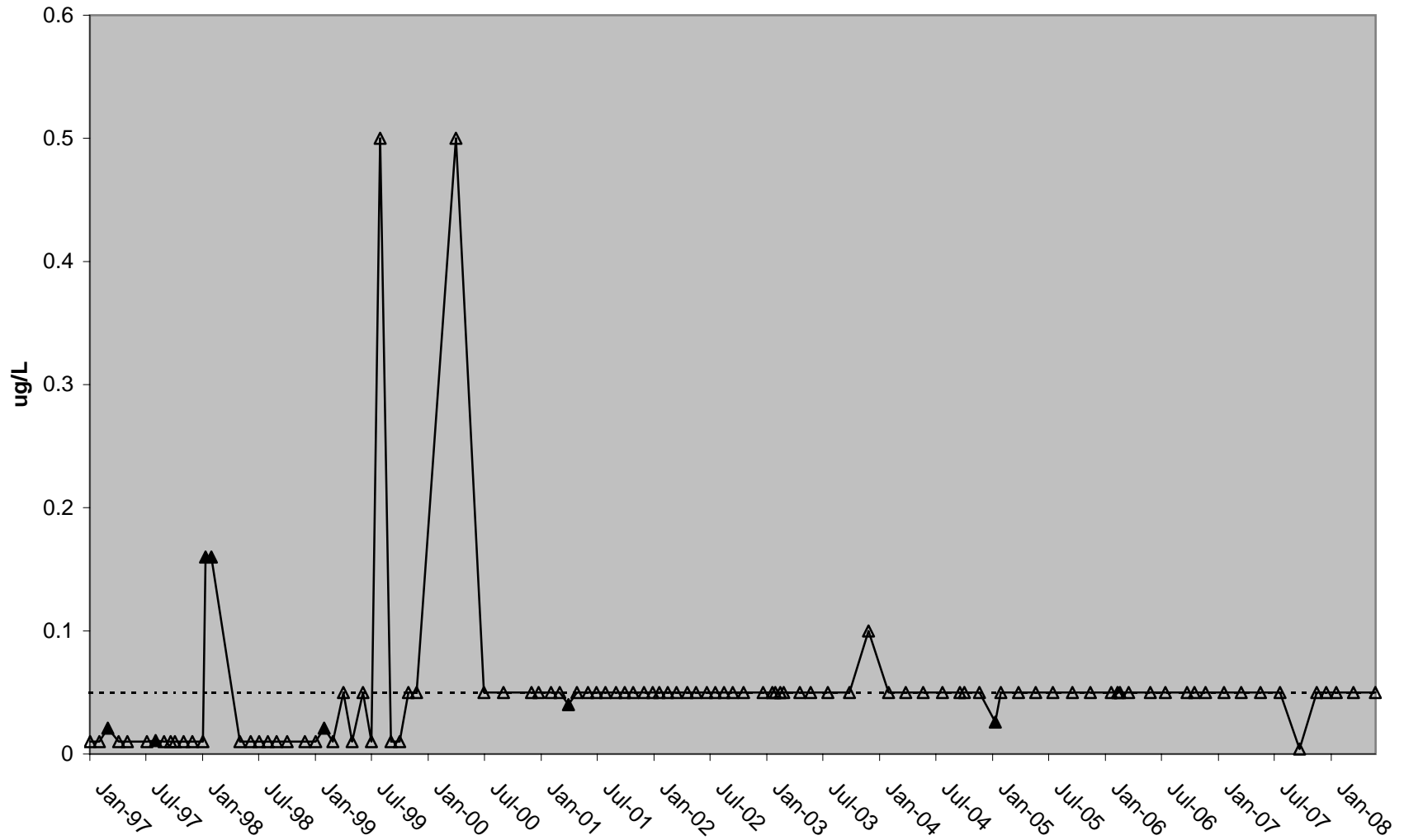
### Veterans Bridge Chlorpyrifos

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



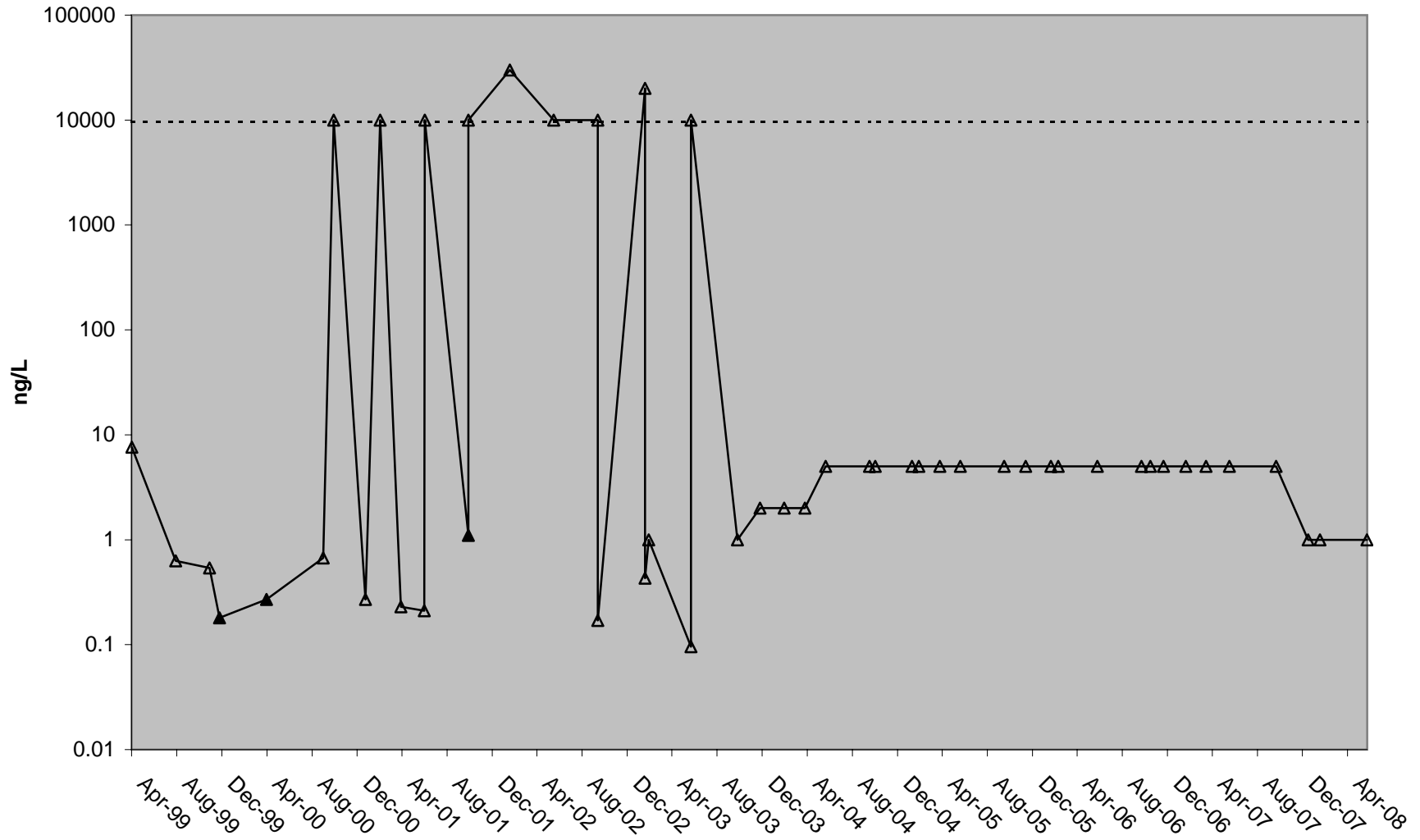
# Veterans Bridge Diazinon

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



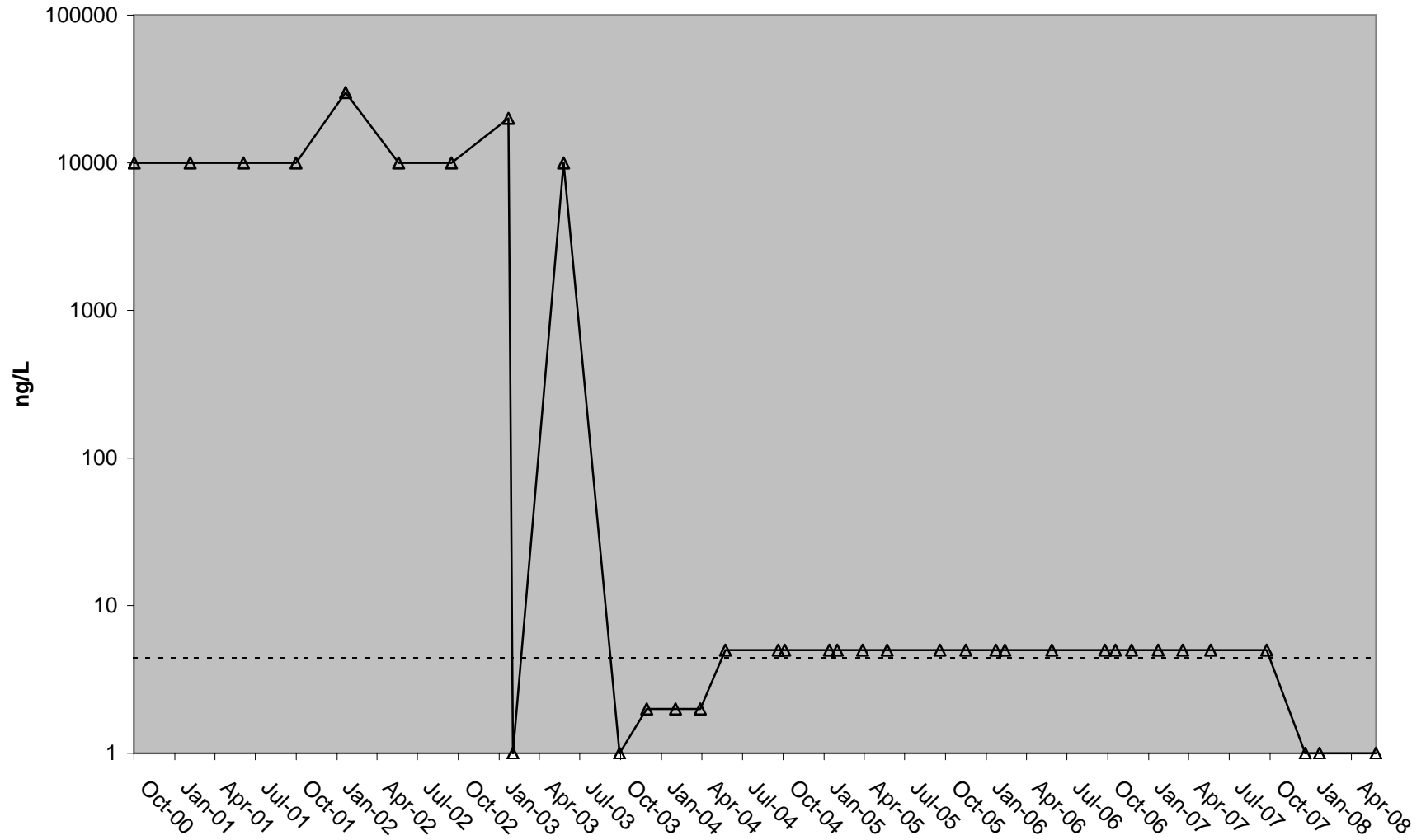
### Veterans Bridge Anthracene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



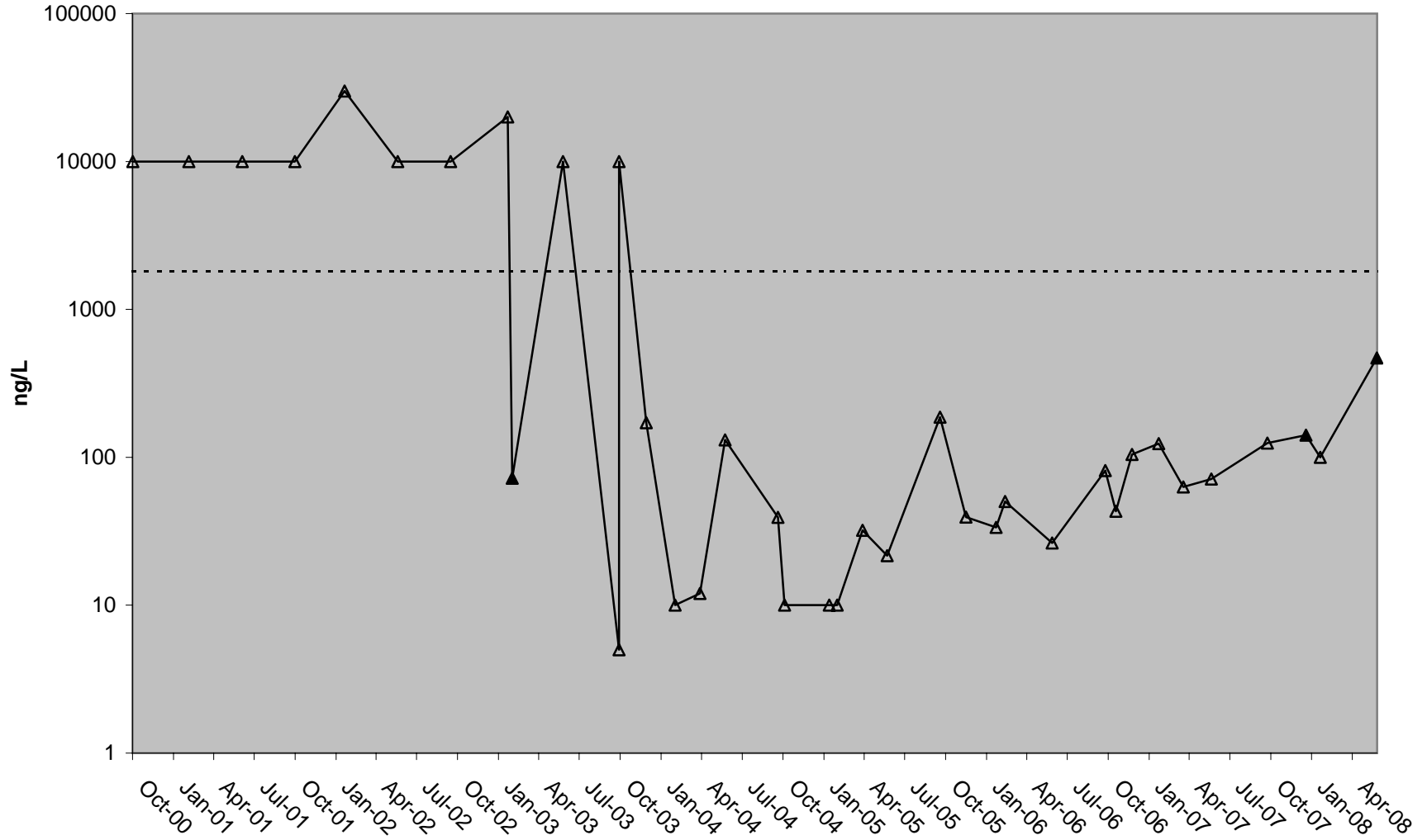
# Veterans Bridge Benzo(k)fluoranthene

— Trendline    △ Below Detection    ▲ Result    - - - - - Lowest Objective



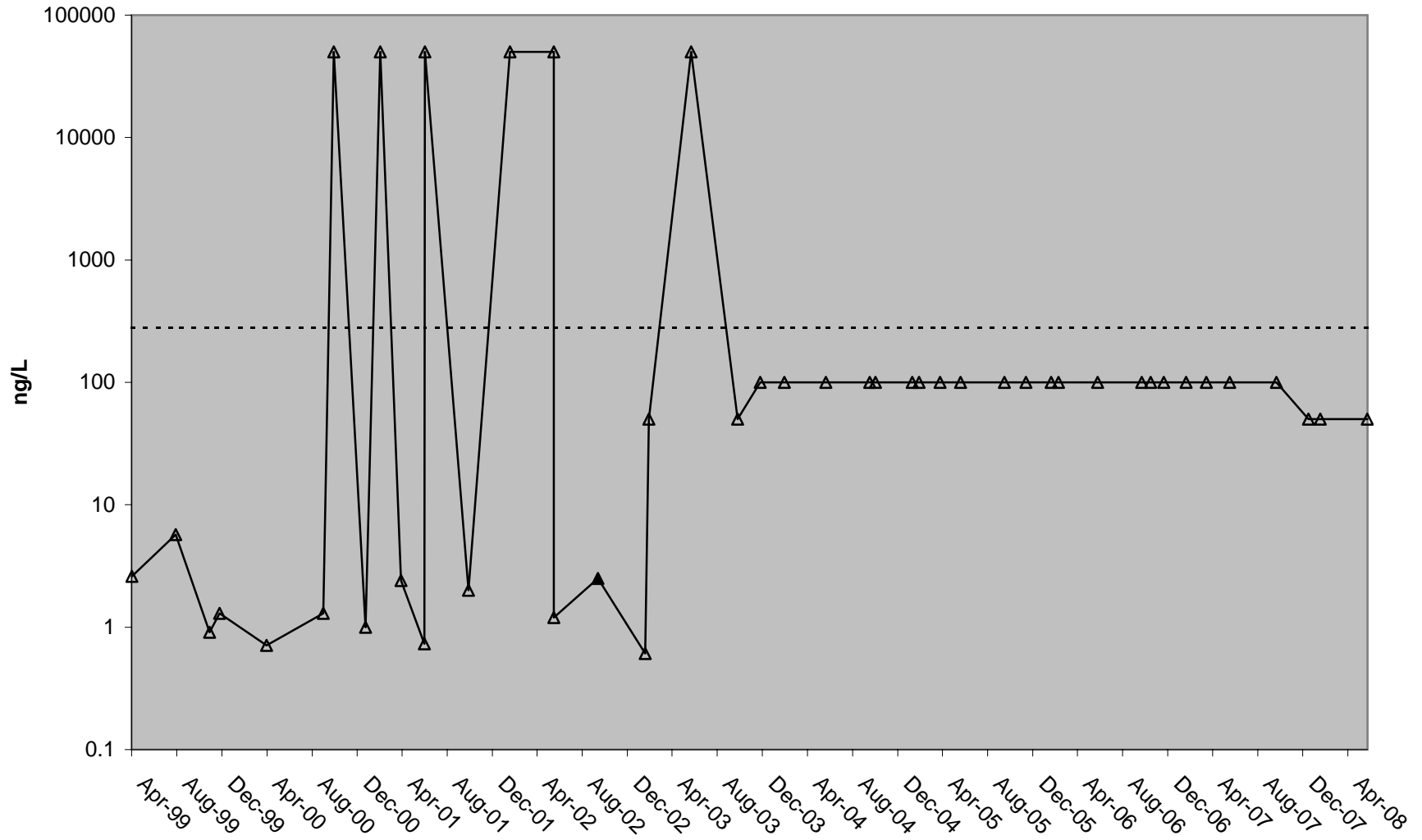
### Veterans Bridge Bis(2-ethylhexyl) phthalate

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



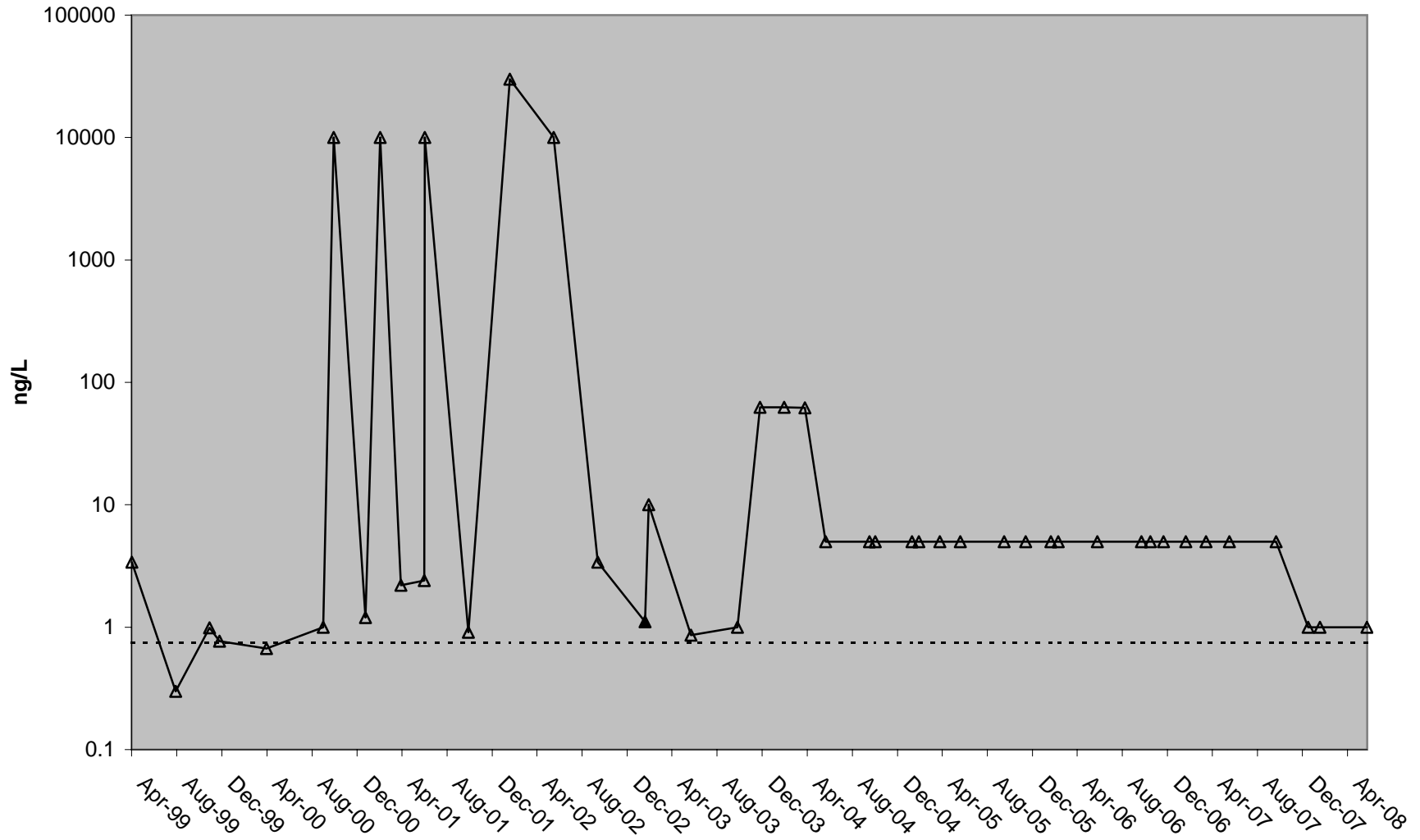
### Veterans Bridge Pentachlorophenol

— Trendline    ▲ Below Detection    ▲ Result    - - - - - Lowest Objective



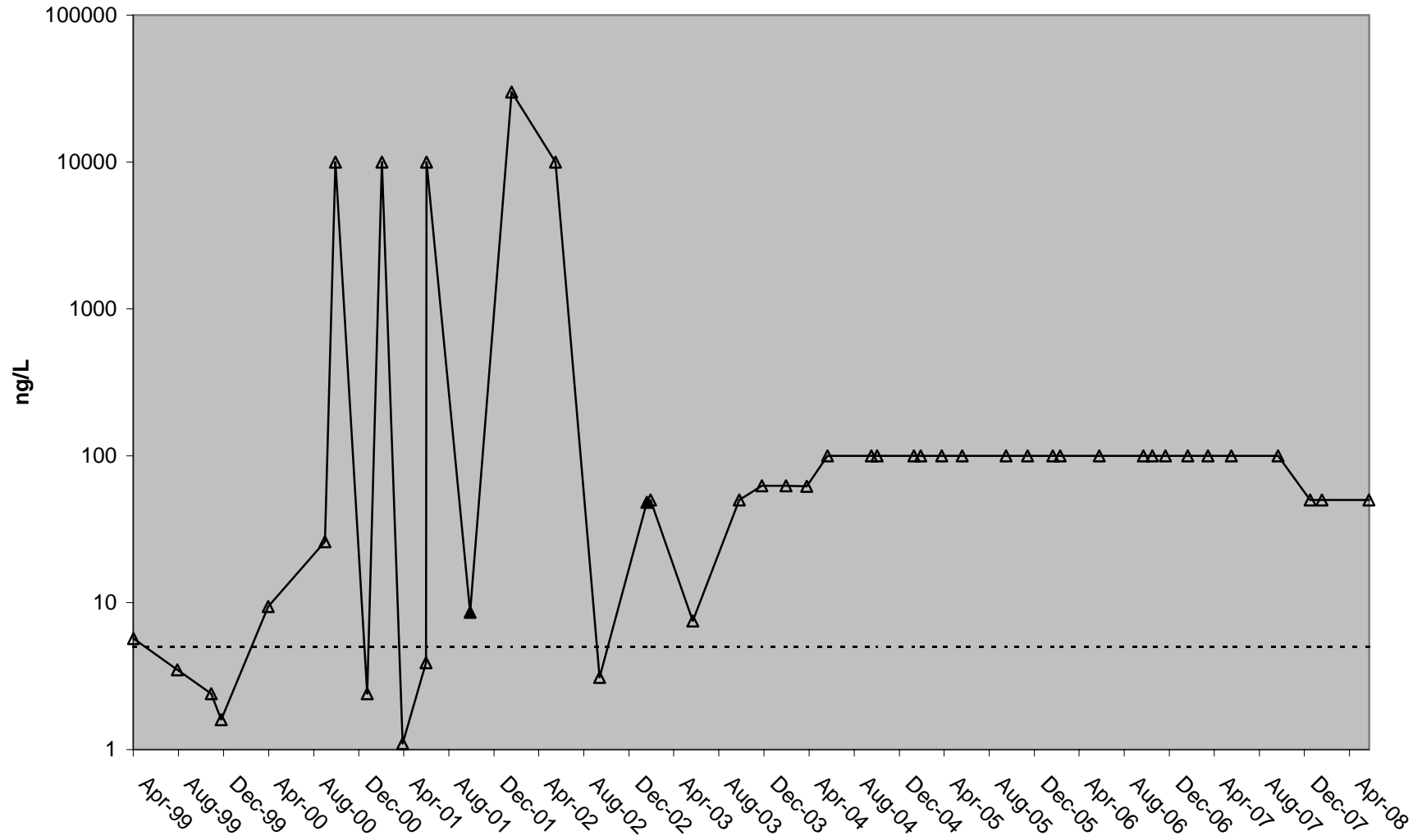
### Veterans Bridge Hexachlorobenzene

— Trendline    △ Below Detection    ▲ Result    - - - - - Lowest Objective



### Veterans Bridge N-Nitroso-di-n-propylamine

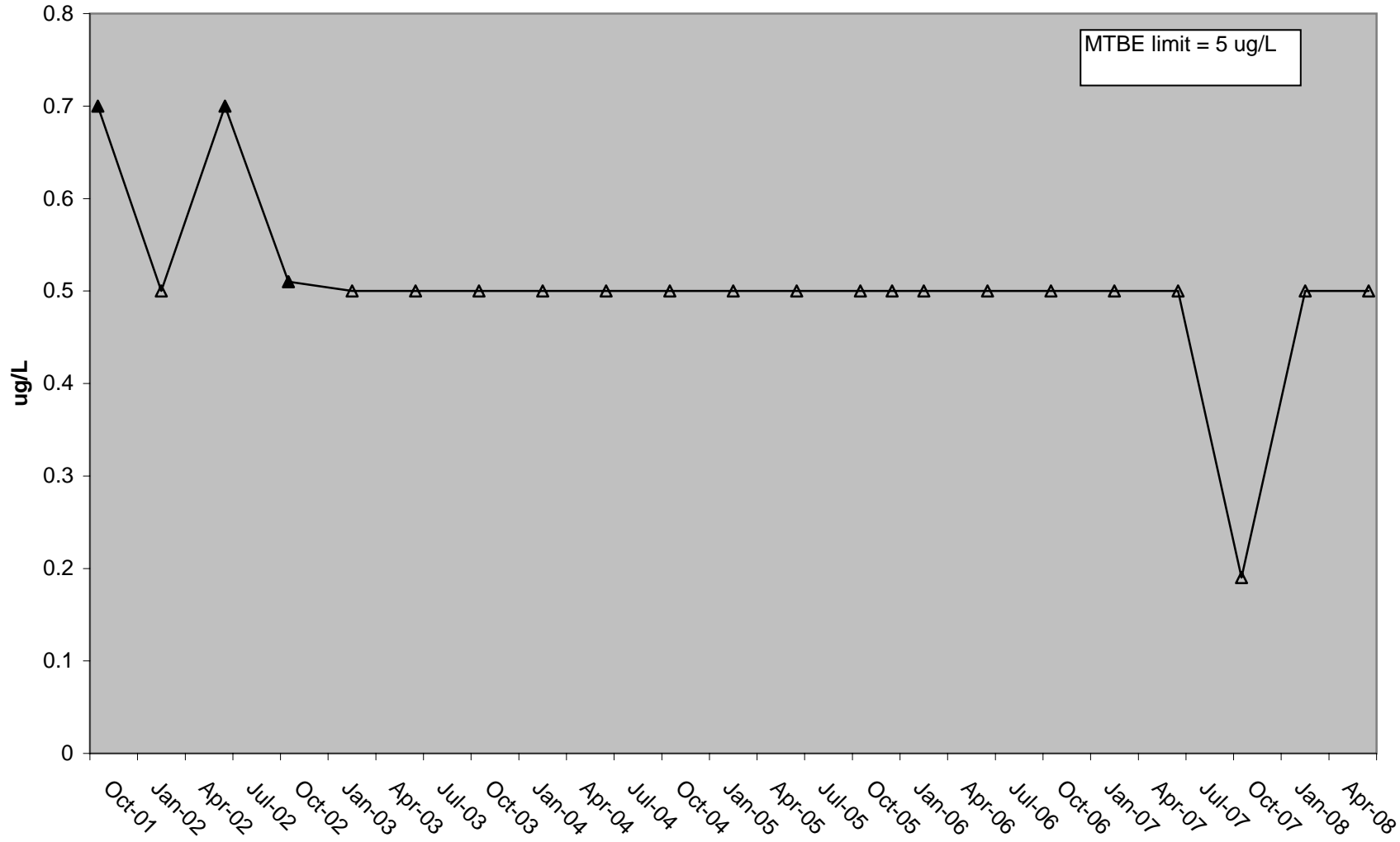
— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



# Veterans Bridge MTBE

— Trendline    △ Below Detection    ▲ Result

MTBE limit = 5 ug/L





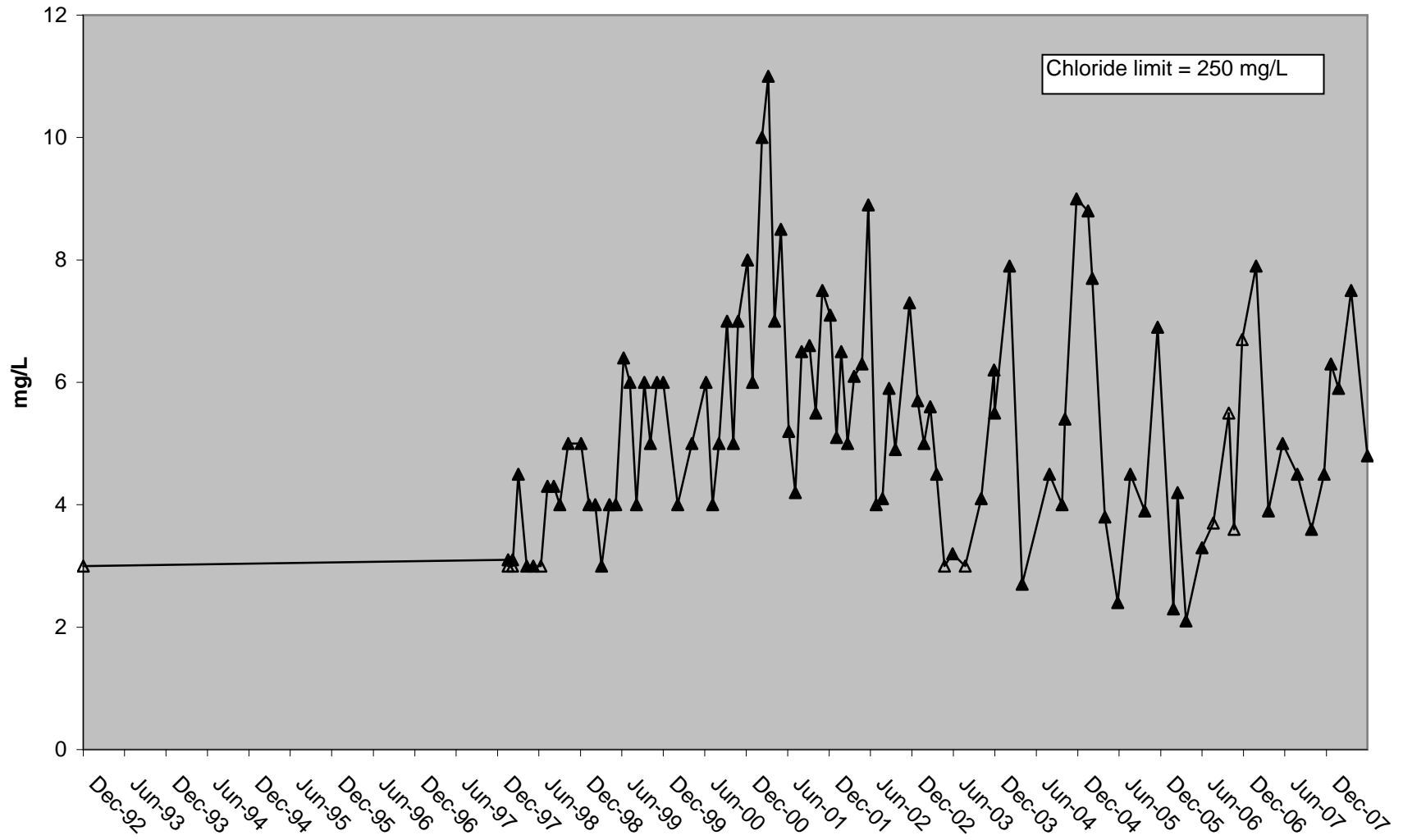
*APPENDIX C-2*

*Sacramento River at Freeport*



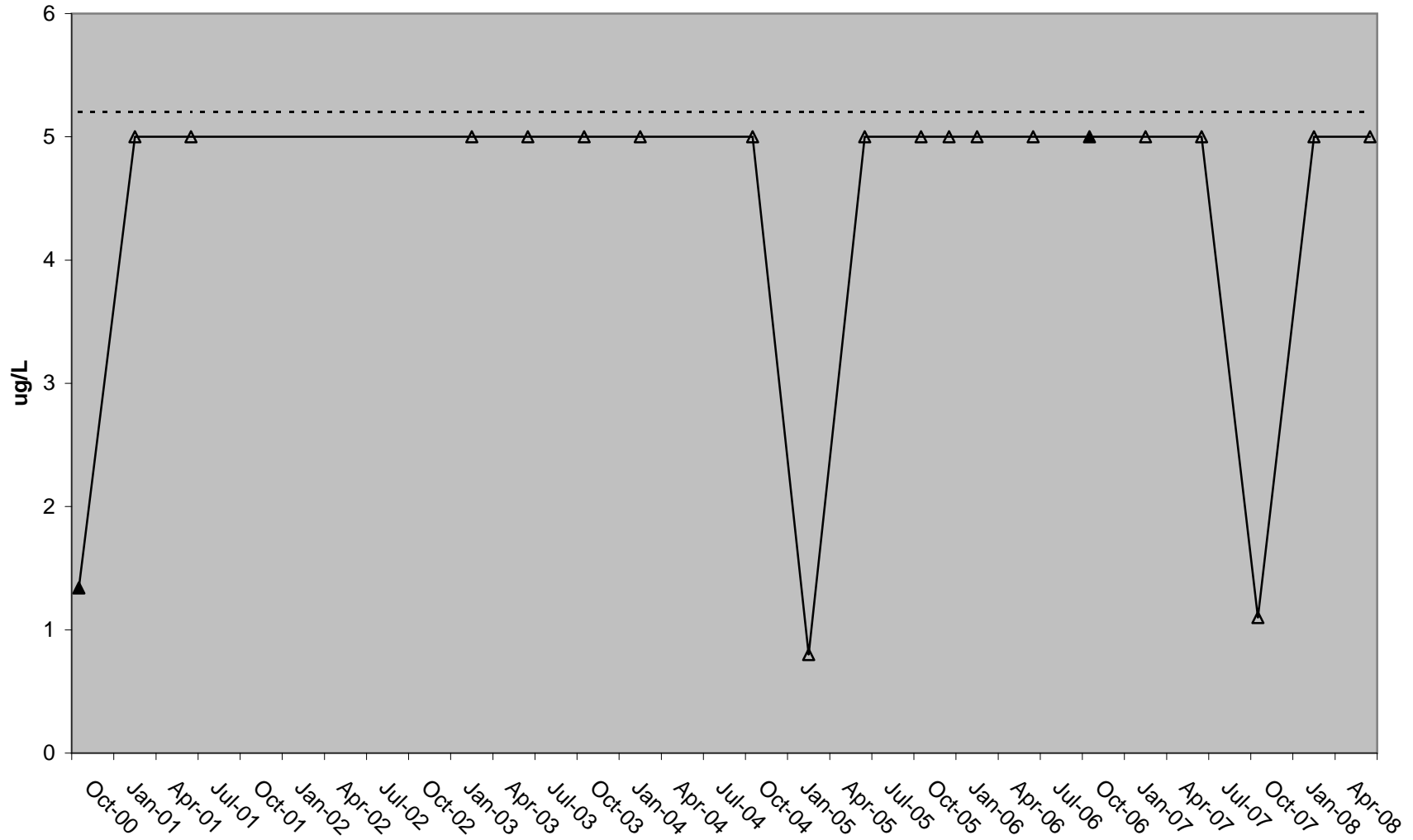
# Freeport Chloride

— Trendline    △ Below Detection    ▲ Result



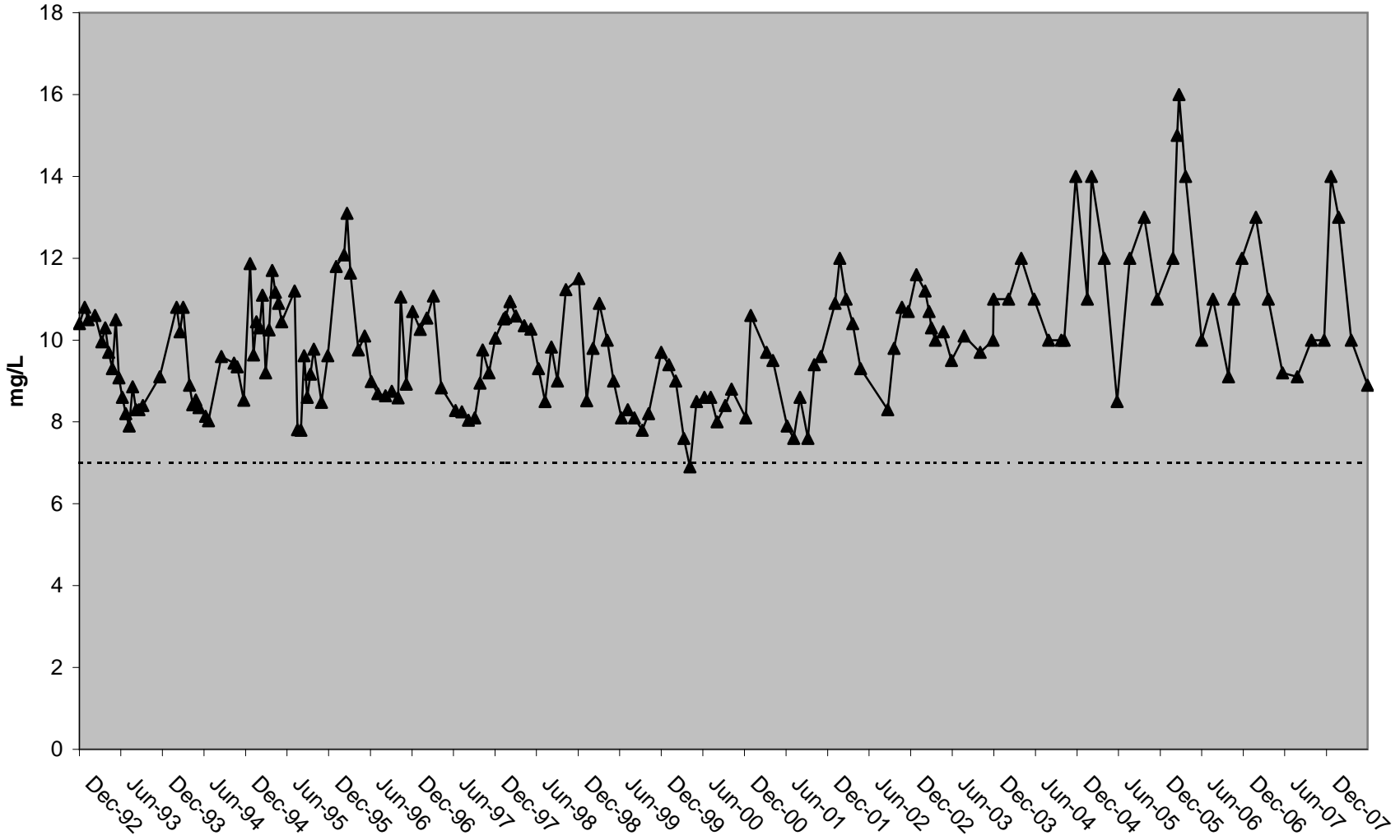
# Freeport Cyanide

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



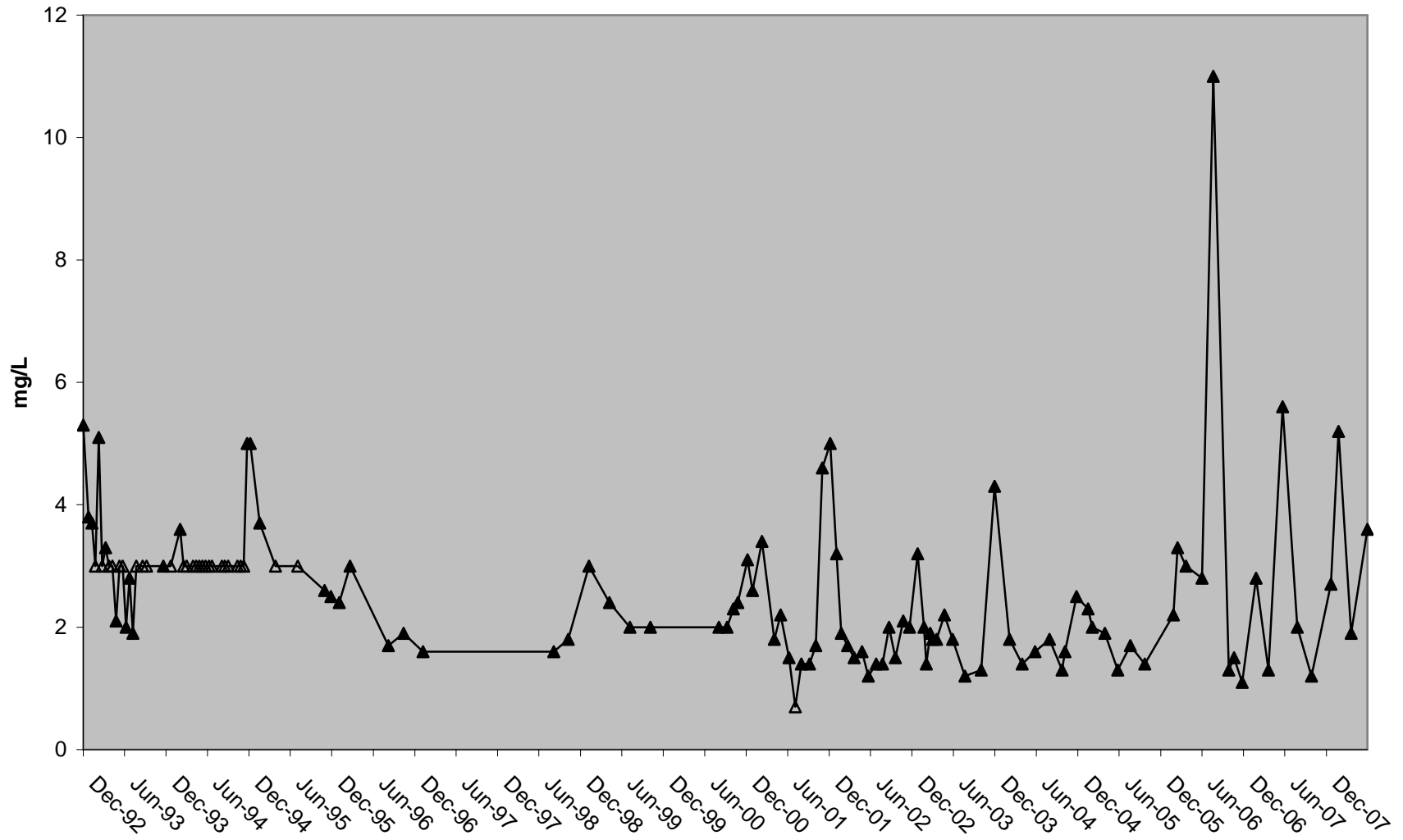
# Freeport Dissolved Oxygen (DO)

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



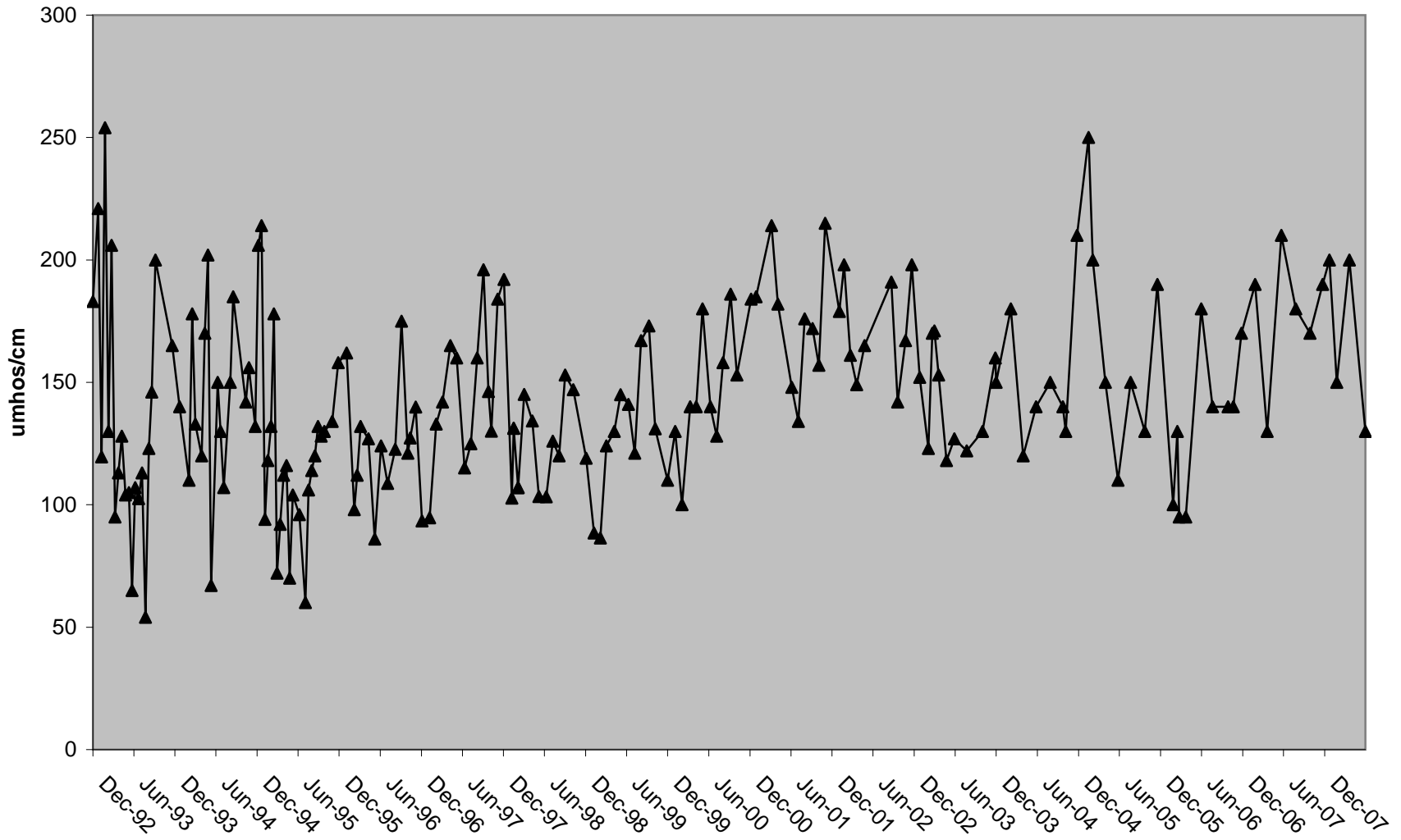
### Freeport Dissolved Organic Carbon (DOC)

— Trendline    △ Below Detection    ▲ Result



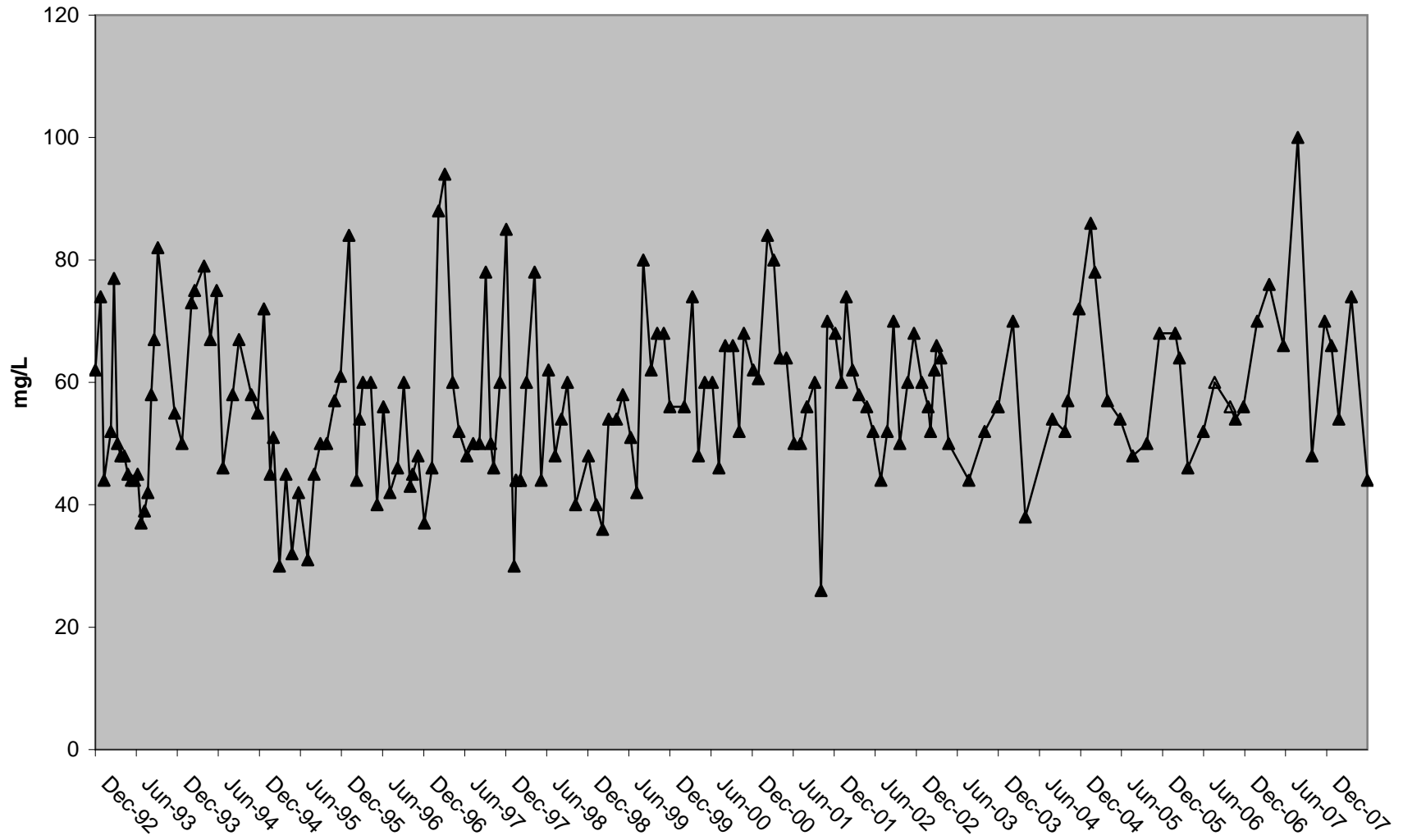
### Freeport Electrical Conductivity (EC)

— Trendline    △ Below Detection    ▲ Result



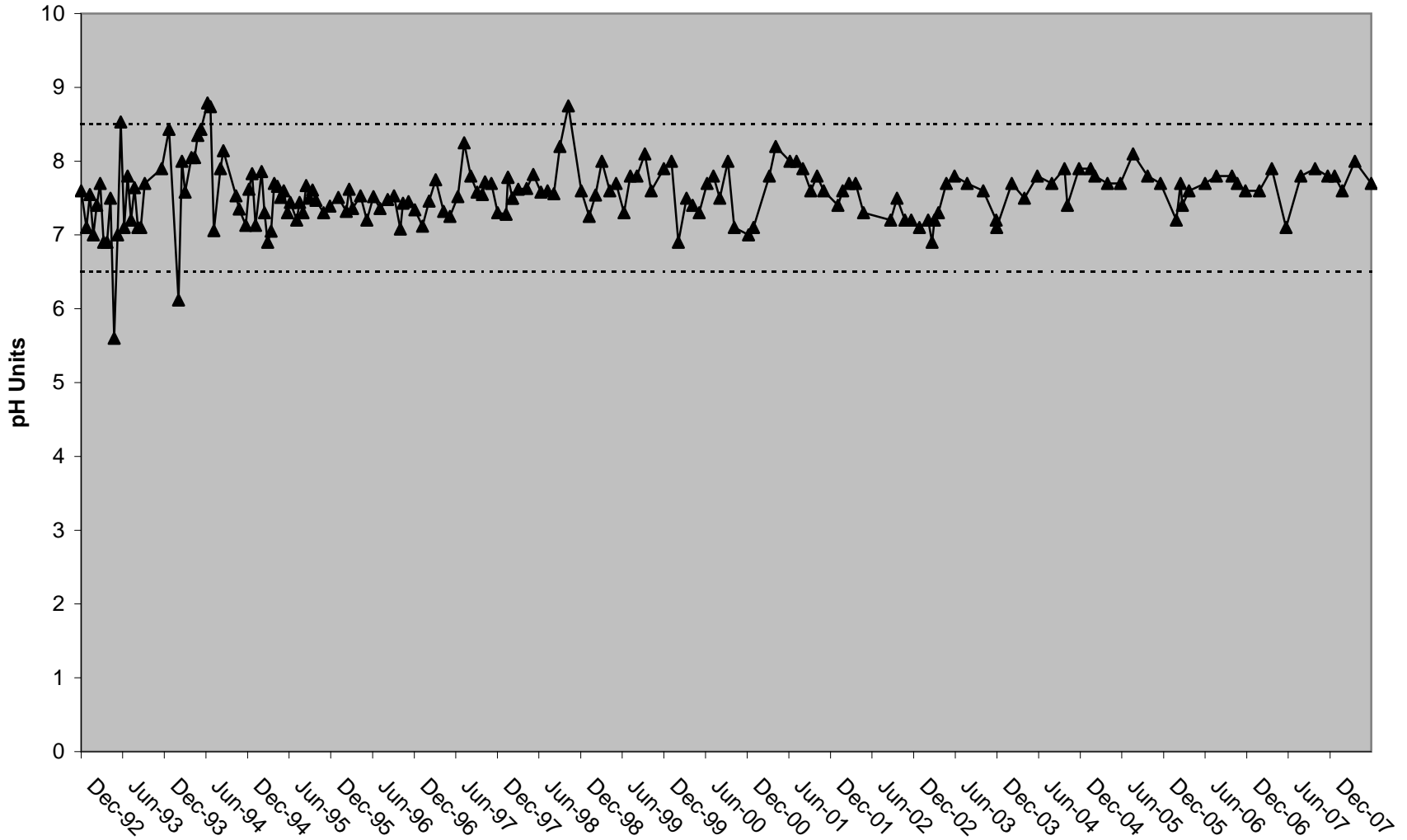
# Freeport Hardness

— Trendline    △ Below Detection    ▲ Result



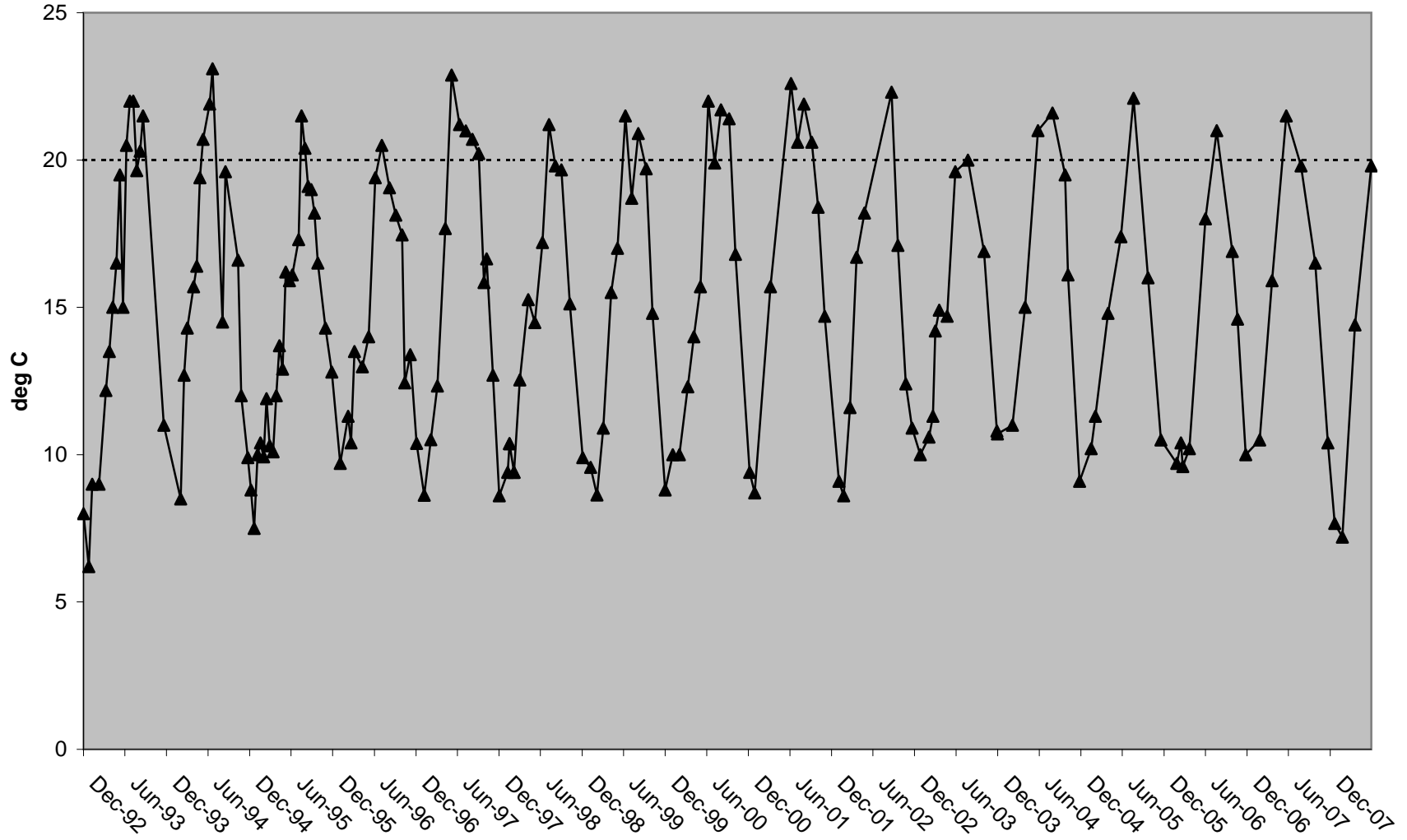
# Freeport pH

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective    - - - - - Series5



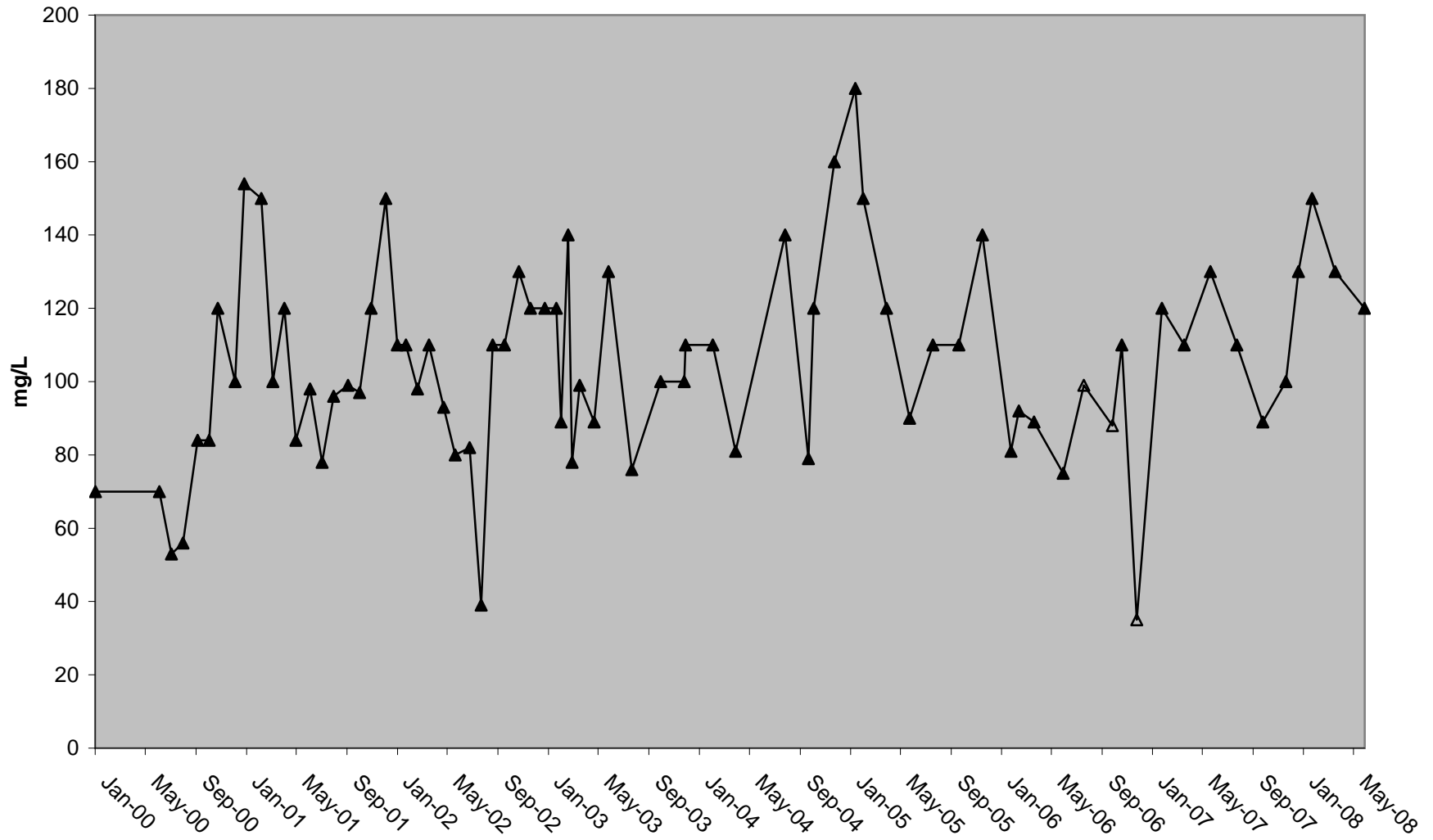
# Freeport Water Temperature

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



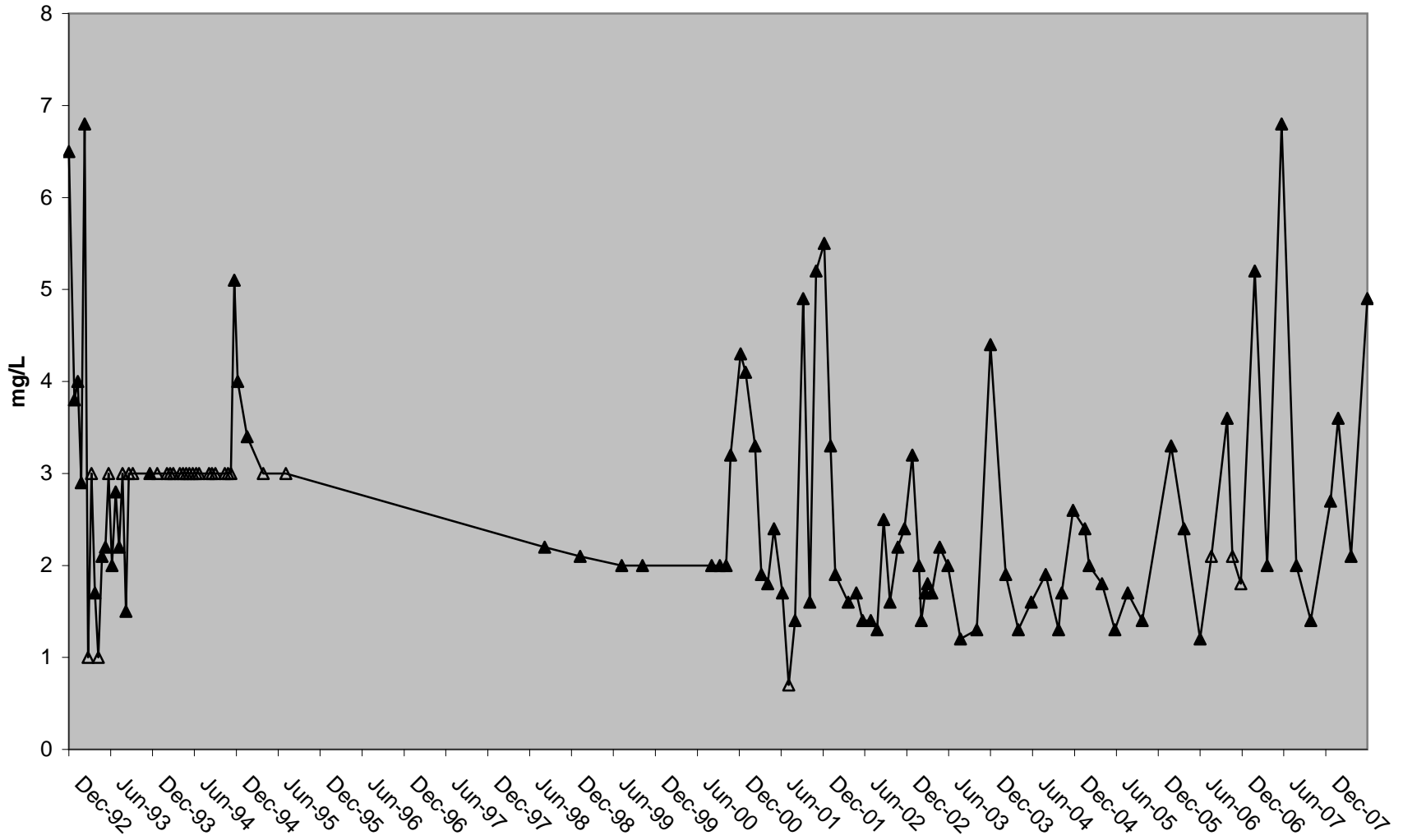
### Freeport Total Dissolved Solids (TDS)

— Trendline    △ Below Detection    ▲ Result



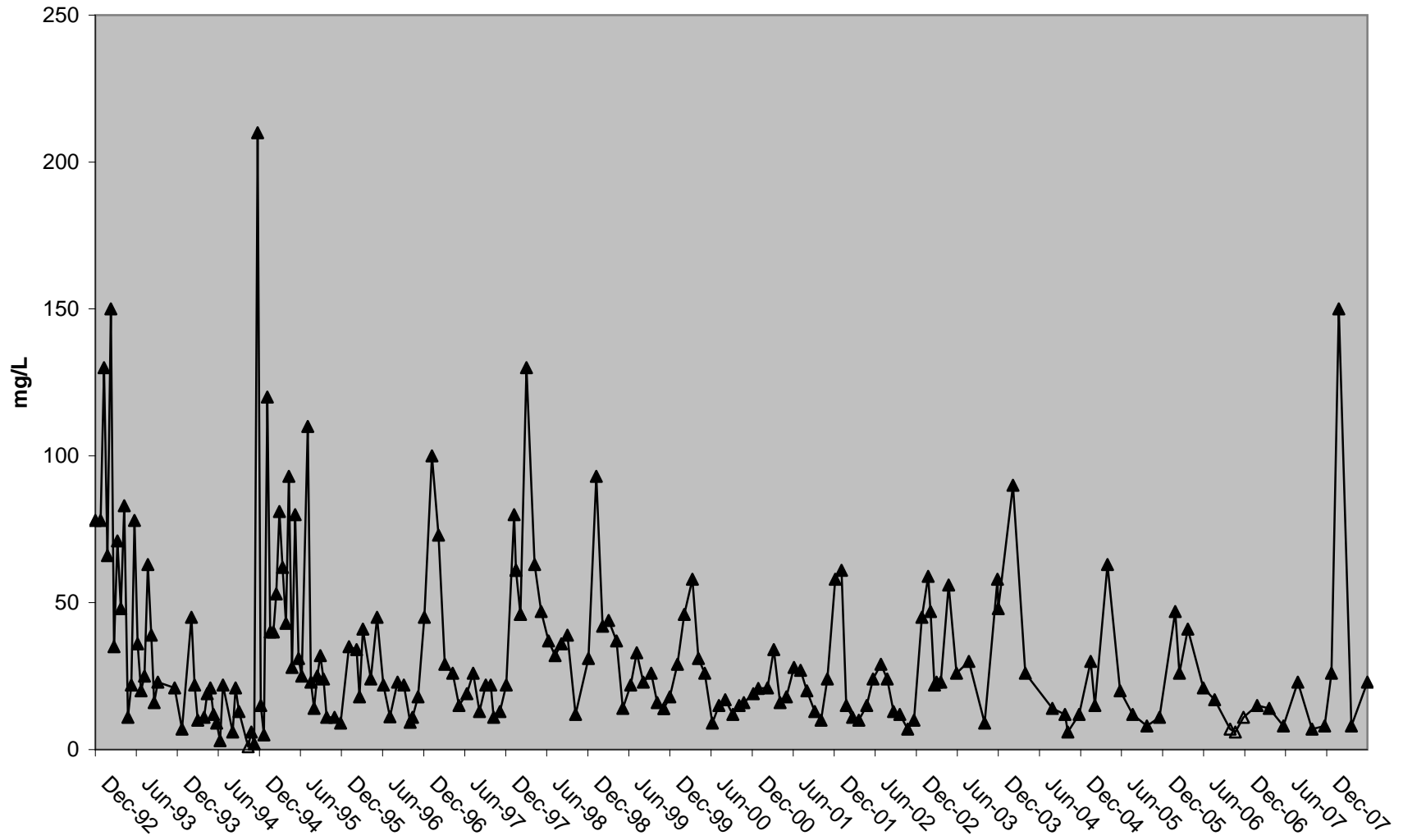
# Freeport Total Organic Carbon (TOC)

— Trendline    △ Below Detection    ▲ Result



### Freeport Total Suspended Solids (TSS)

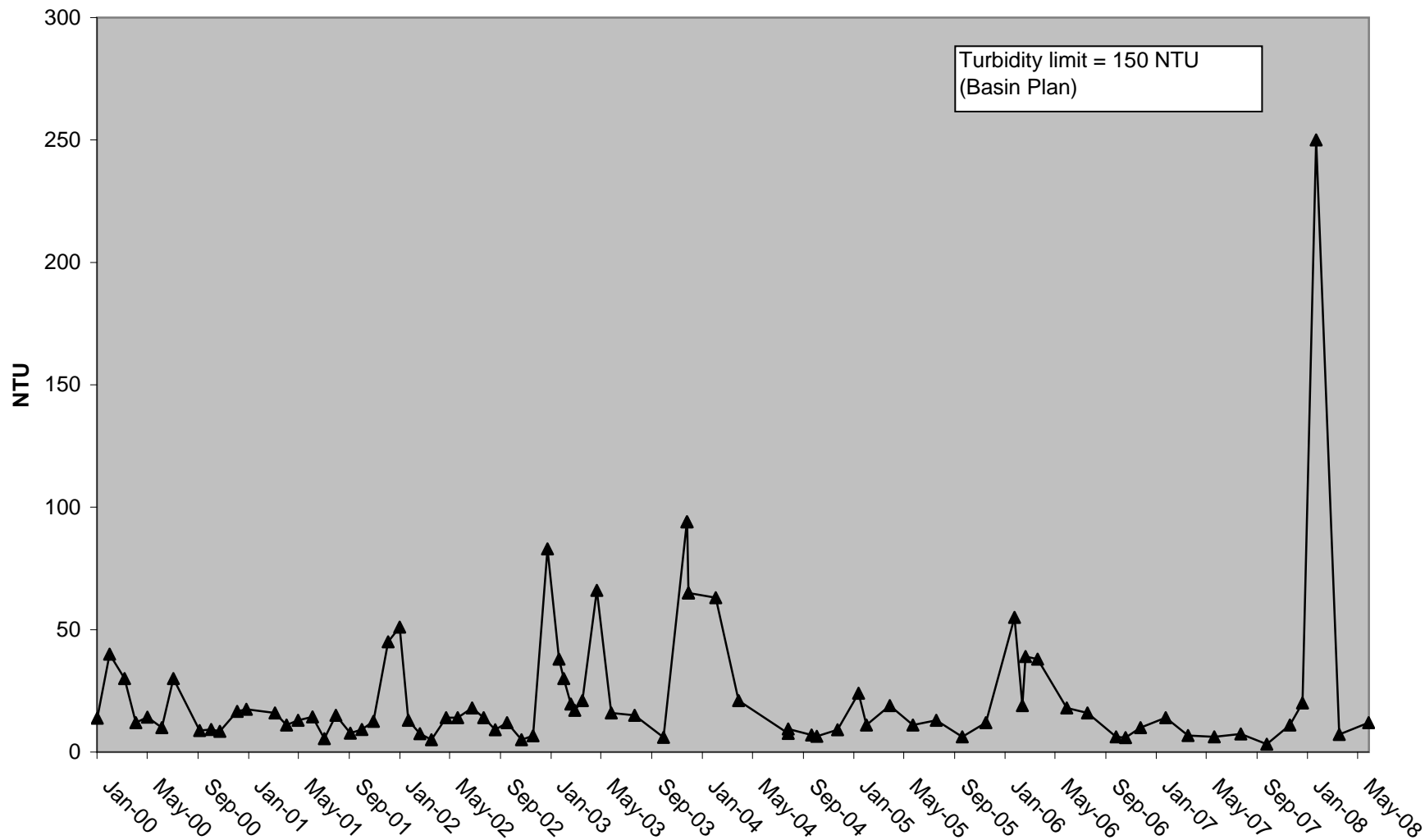
— Trendline    △ Below Detection    ▲ Result



# Freeport Turbidity

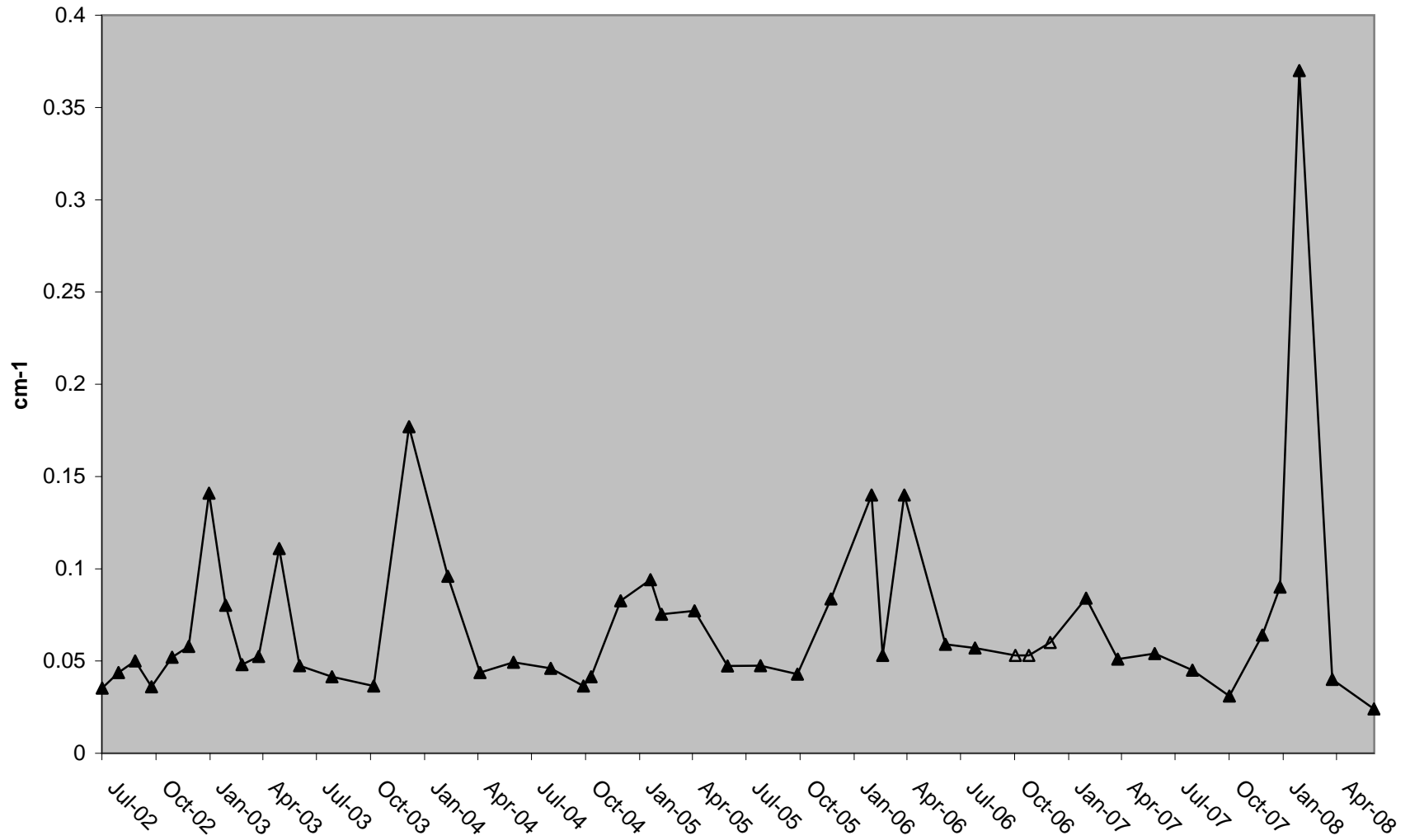
— Trendline    △ Below Detection    ▲ Result

Turbidity limit = 150 NTU  
(Basin Plan)



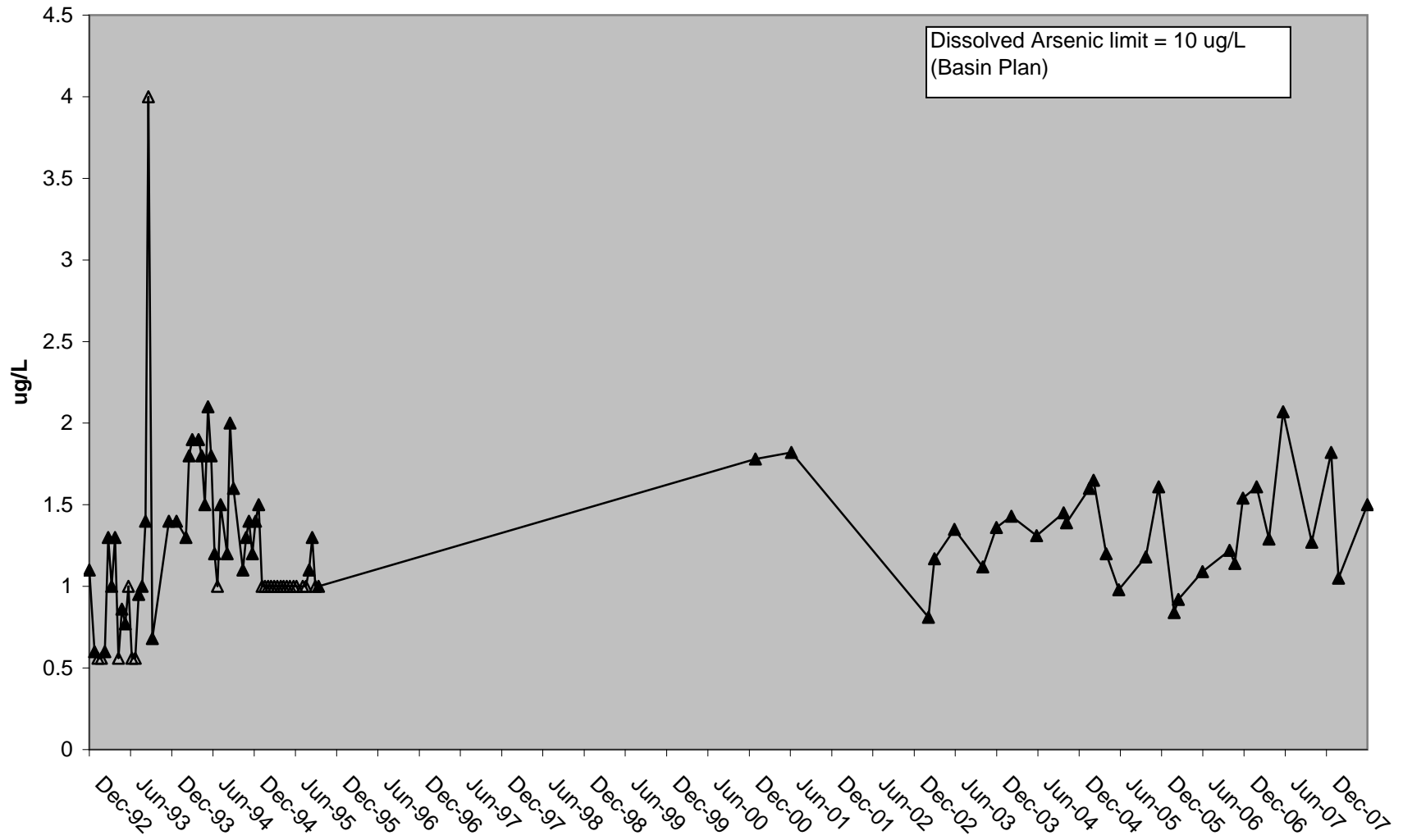
# Freeport UVA 254

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



### Freeport Dissolved Arsenic (As-d)

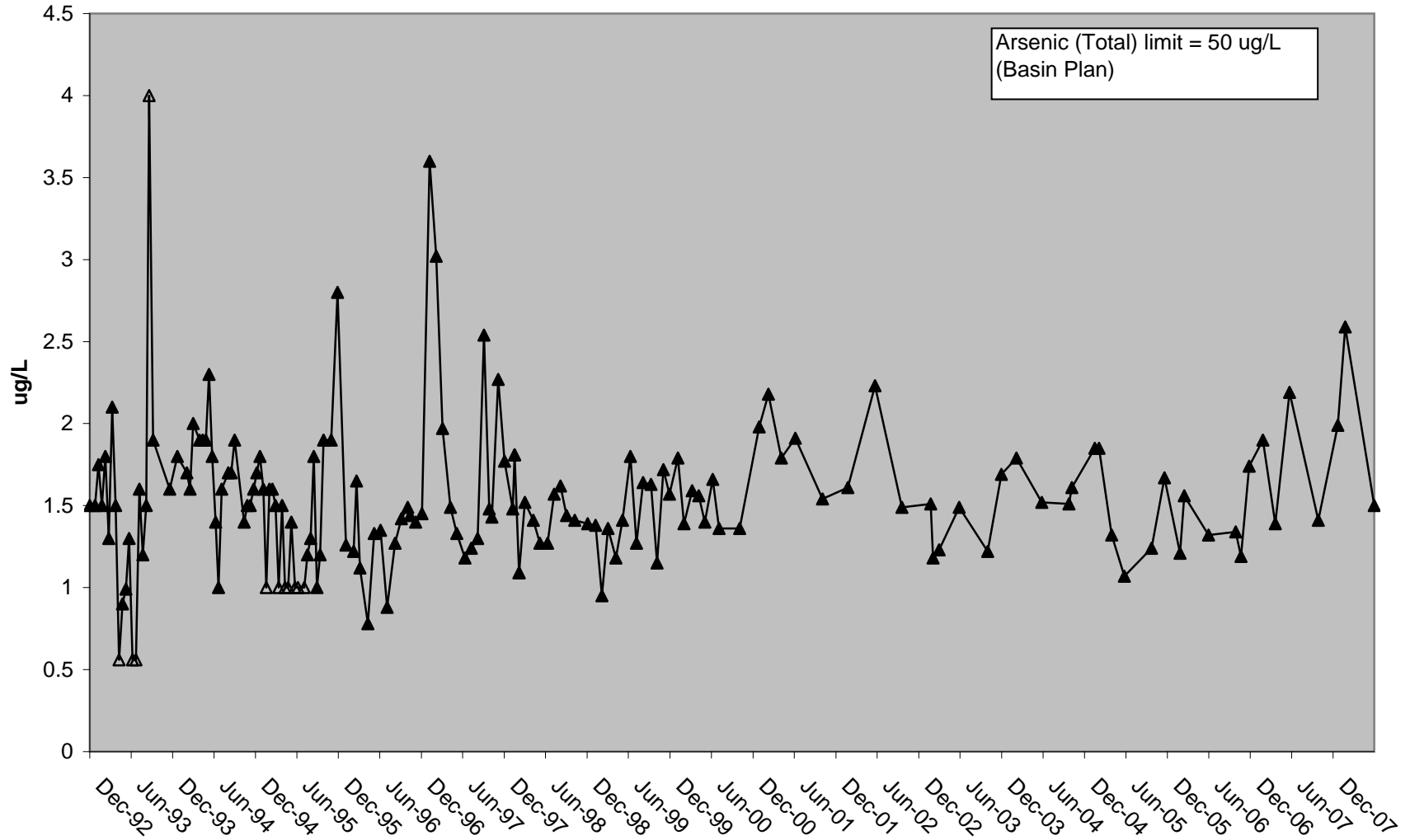
— Trendline    △ Below Detection    ▲ Result



# Freeport Total Arsenic (As-T)

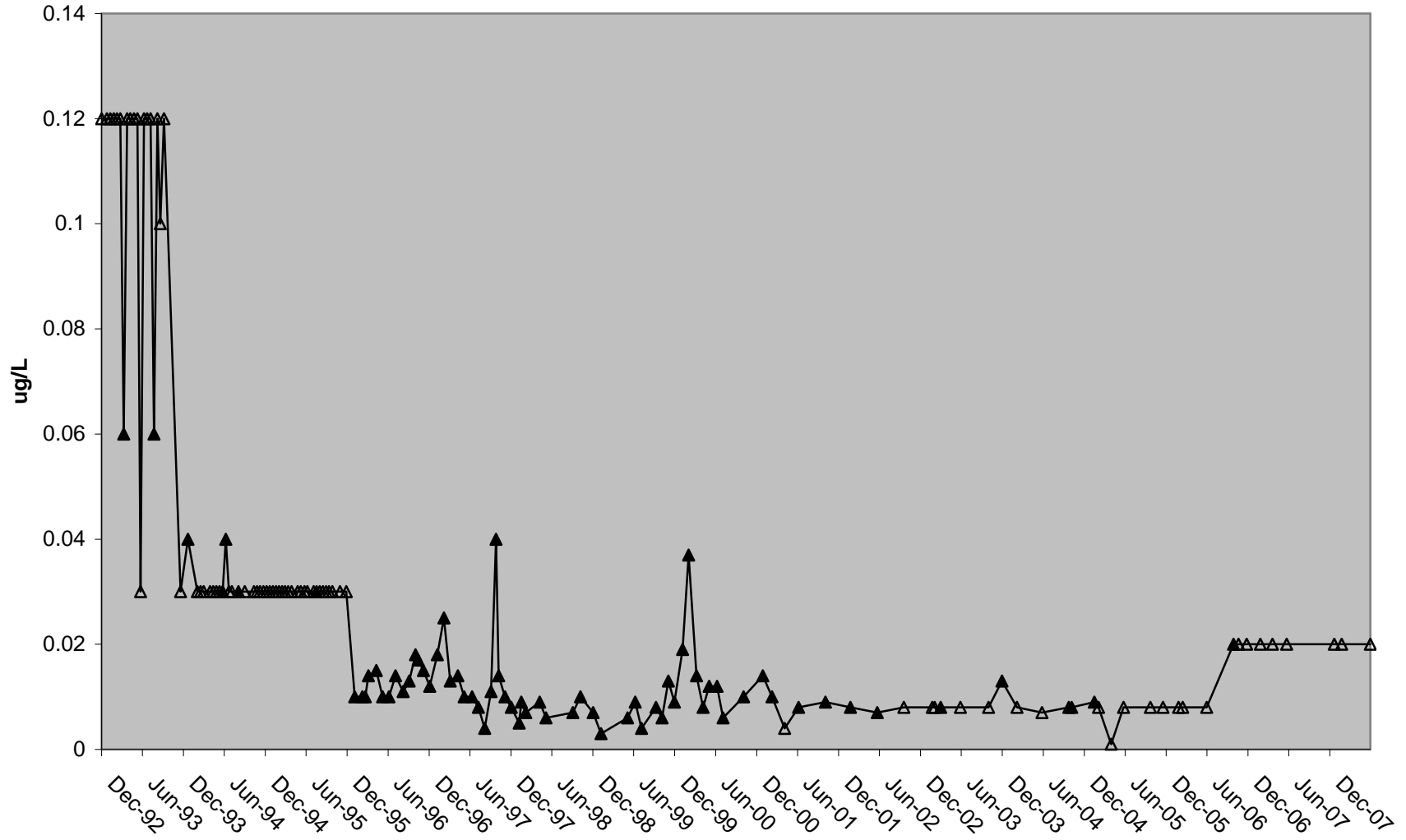
— Trendline    △ Below Detection    ▲ Result

Arsenic (Total) limit = 50 ug/L  
(Basin Plan)



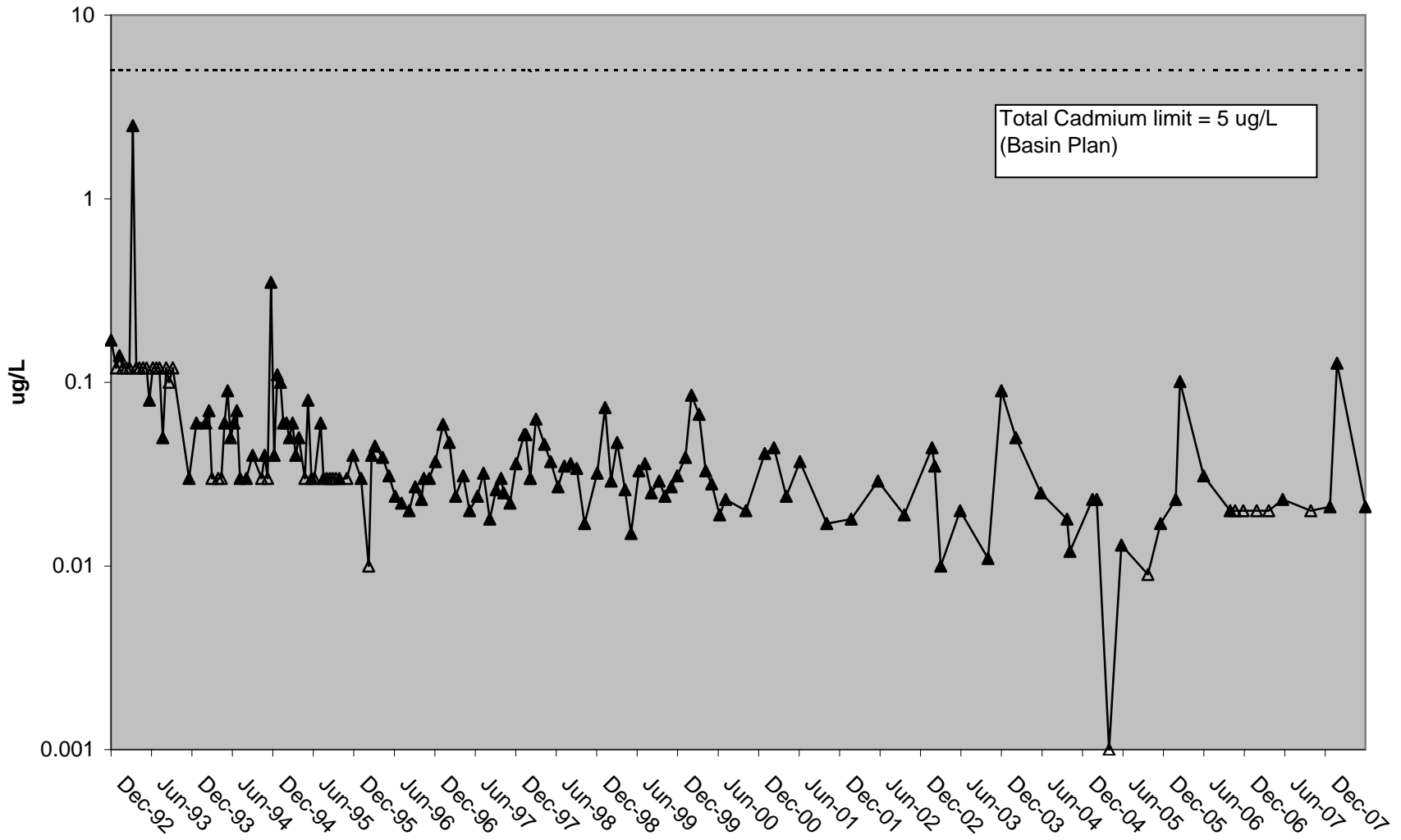
### Freeport Dissolved Cadmium (Cd-d)

— Trendline    △ Below Detection    ▲ Result



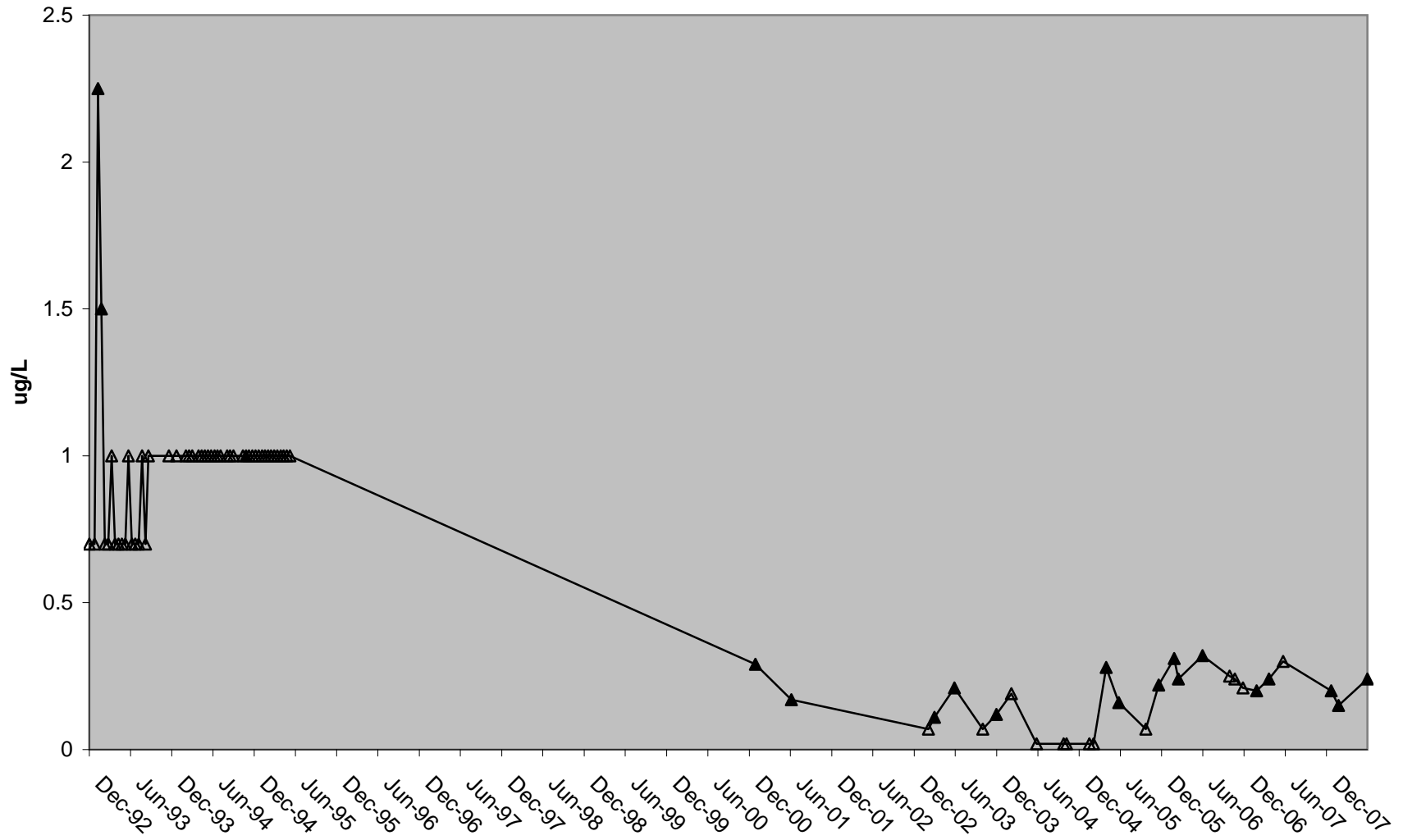
# Freeport Total Cadmium (Cd-T)

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



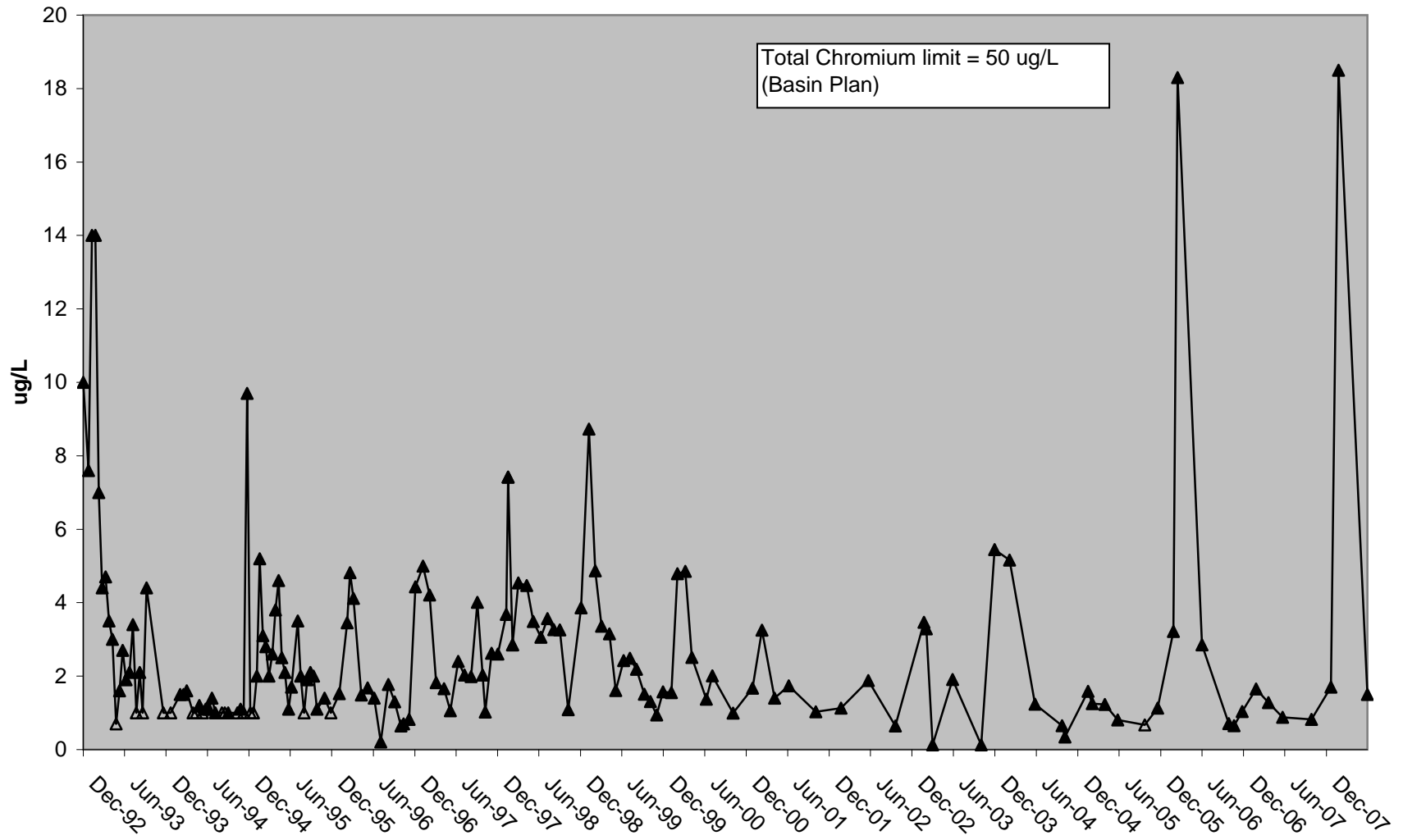
### Freeport Dissolved Chromium (Cr-d)

— Trendline    △ Below Detection    ▲ Result



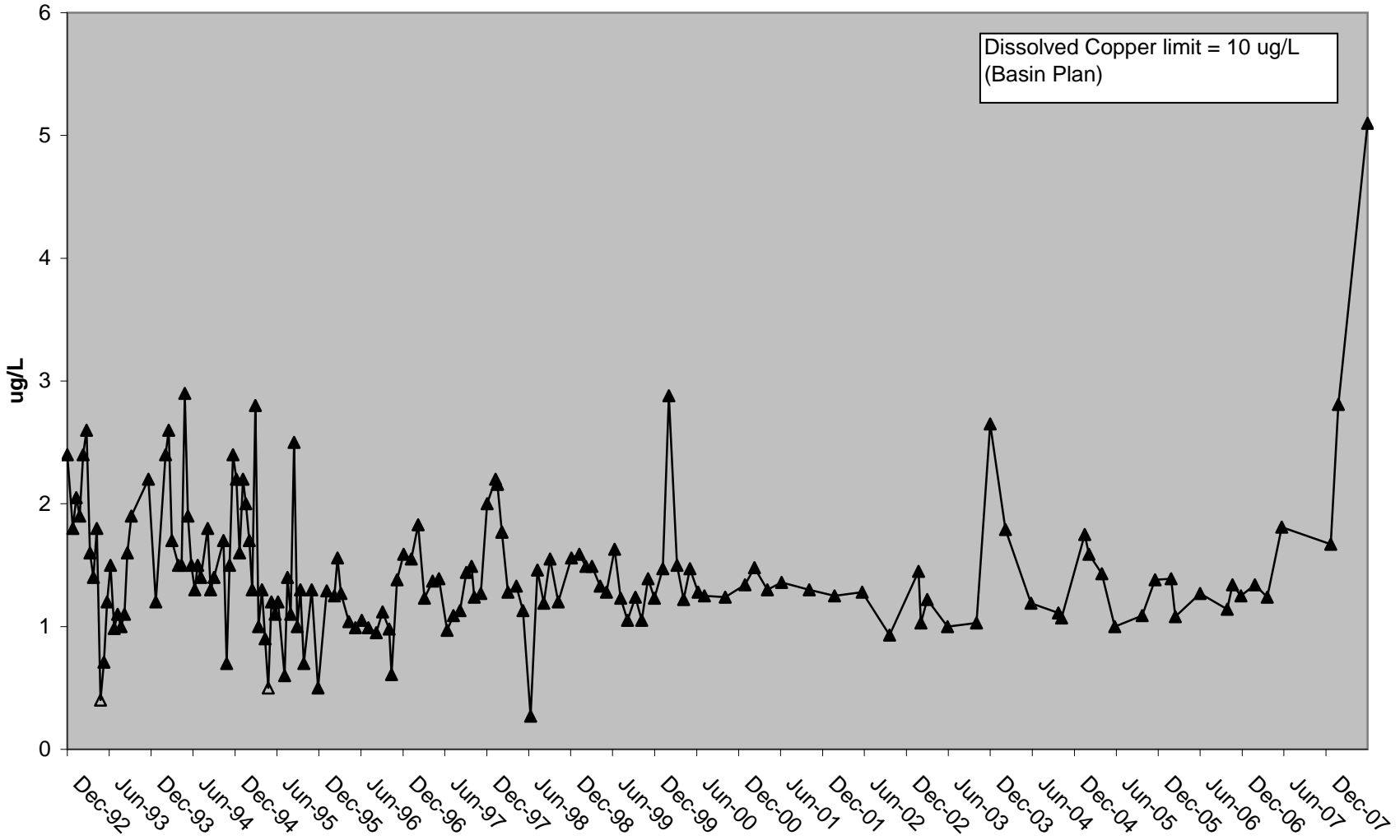
# Freeport Total Chromium (Cr-T)

— Trendline    △ Below Detection    ▲ Result



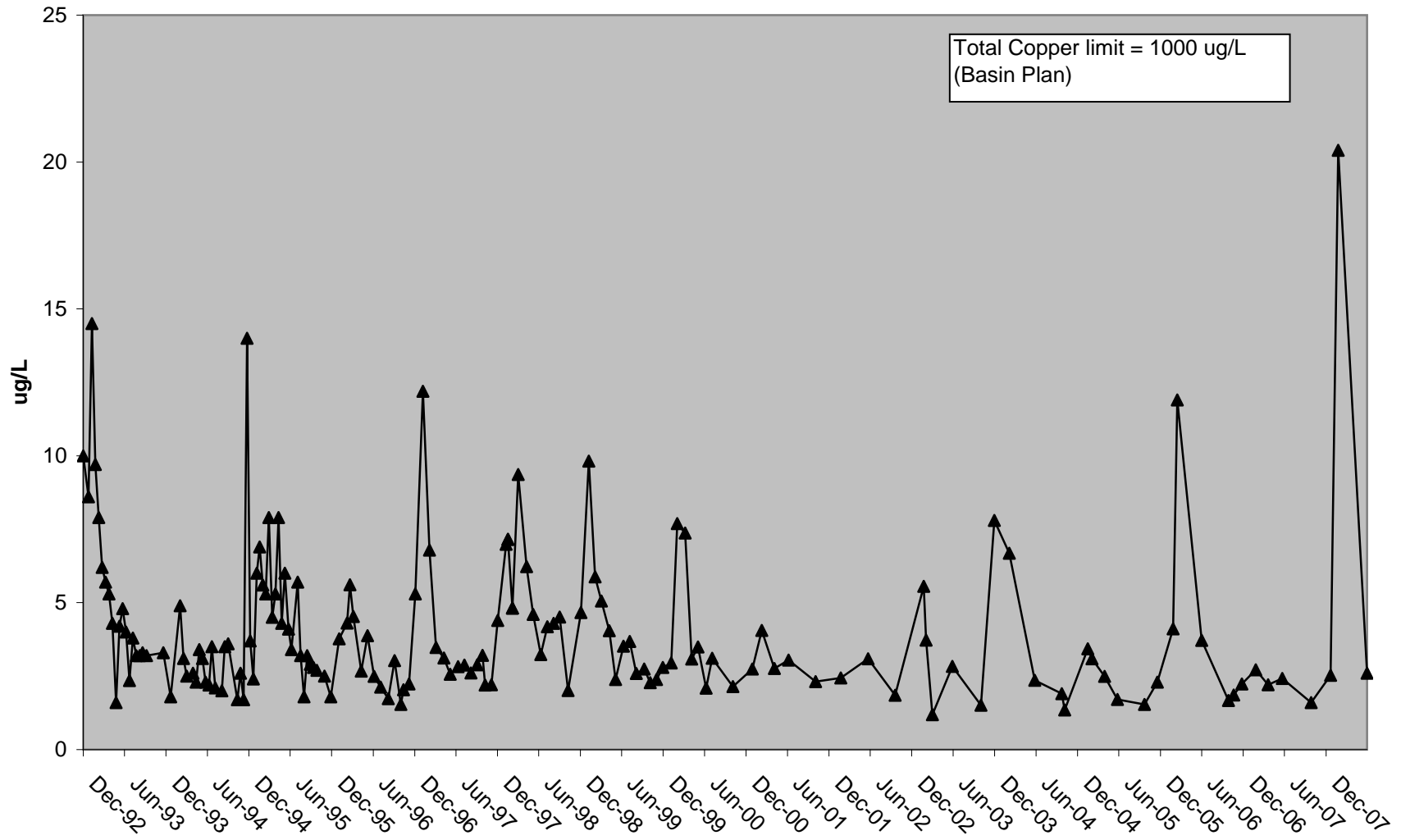
### Freeport Dissolved Copper (Cu-d)

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



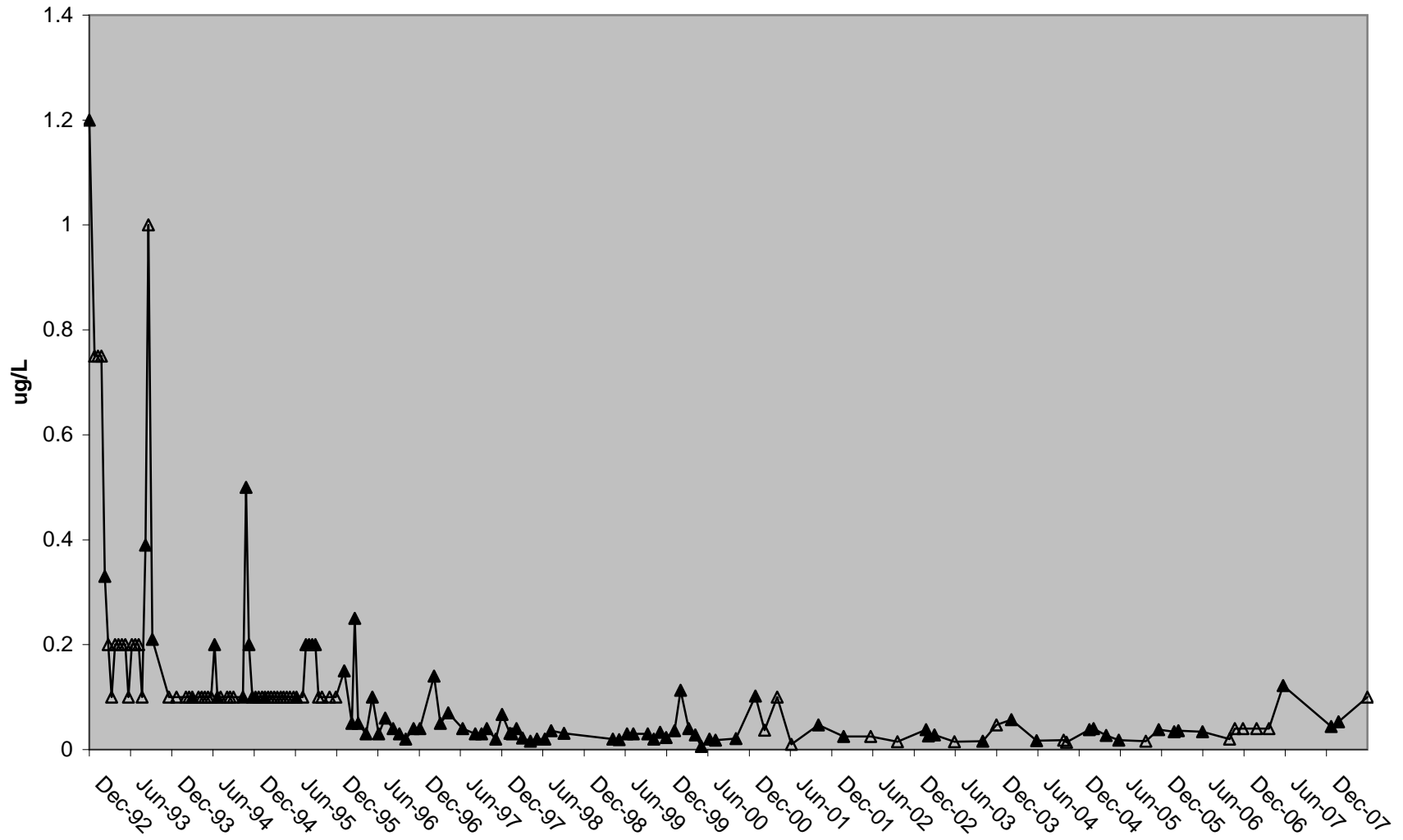
# Freeport Total Copper (Cu-T)

— Trendline    △ Below Detection    ▲ Result



### Freeport Dissolved Lead (Pb-d)

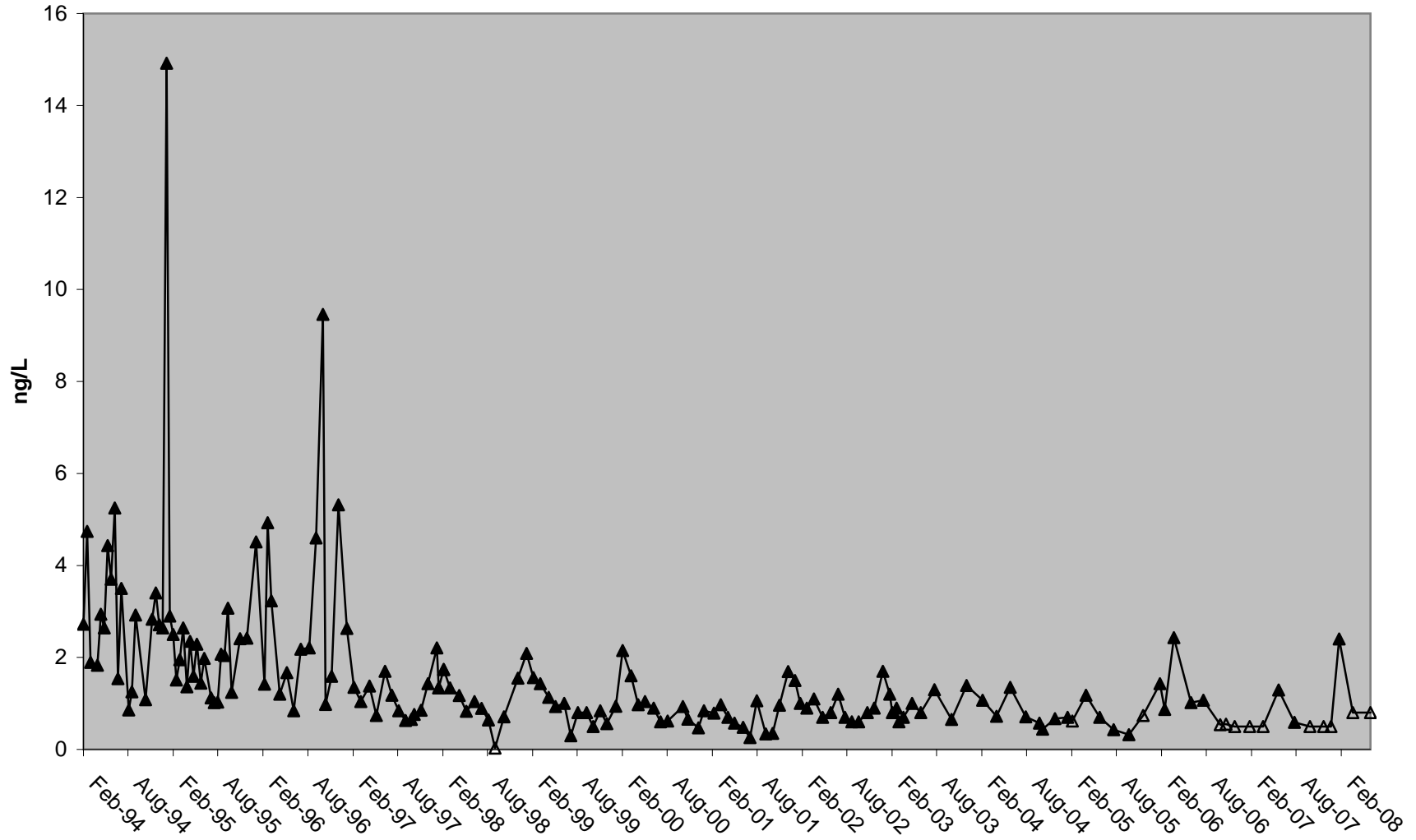
— Trendline    △ Below Detection    ▲ Result





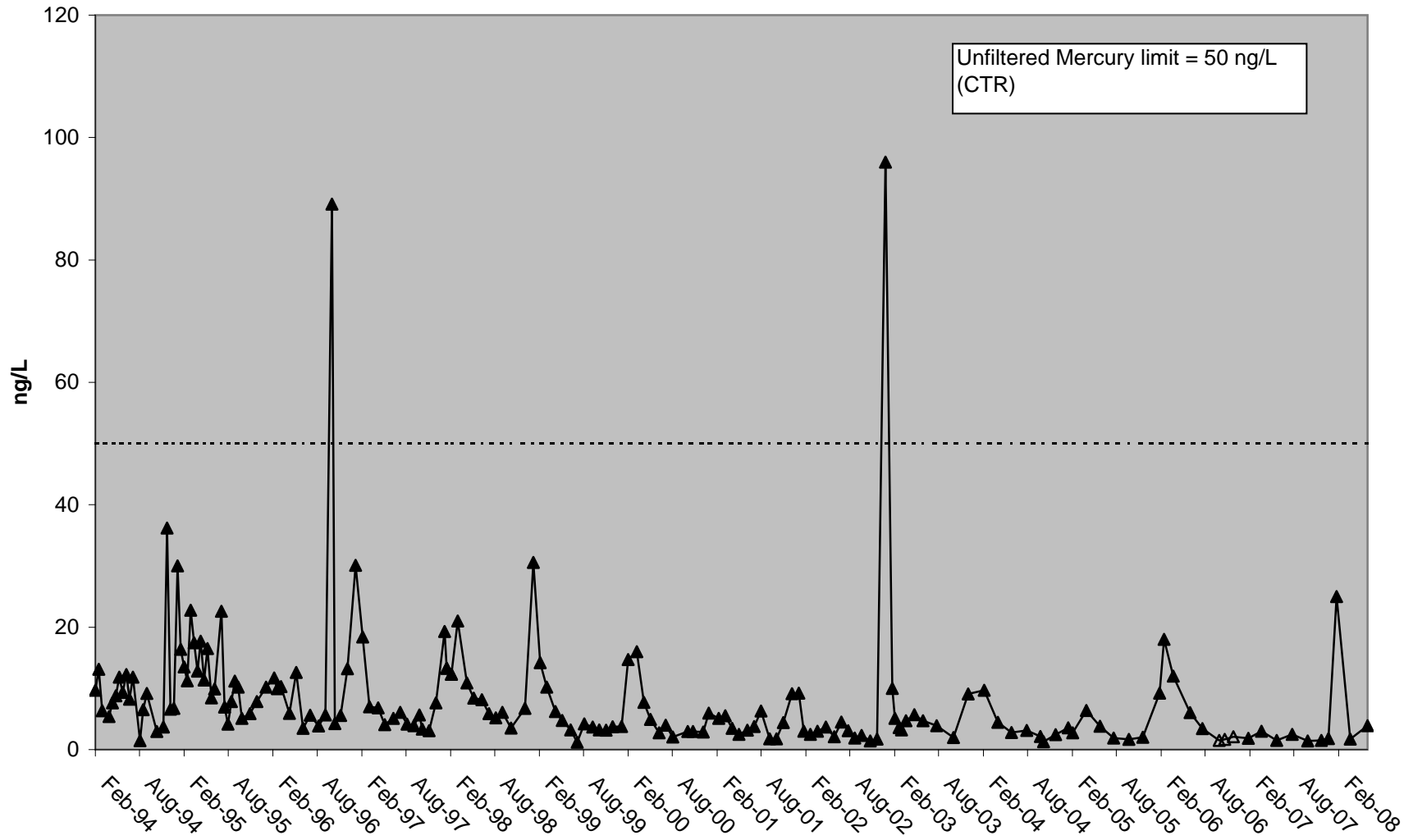
# Freeport Filtered Mercury

— Trendline    △ Below Detection    ▲ Result



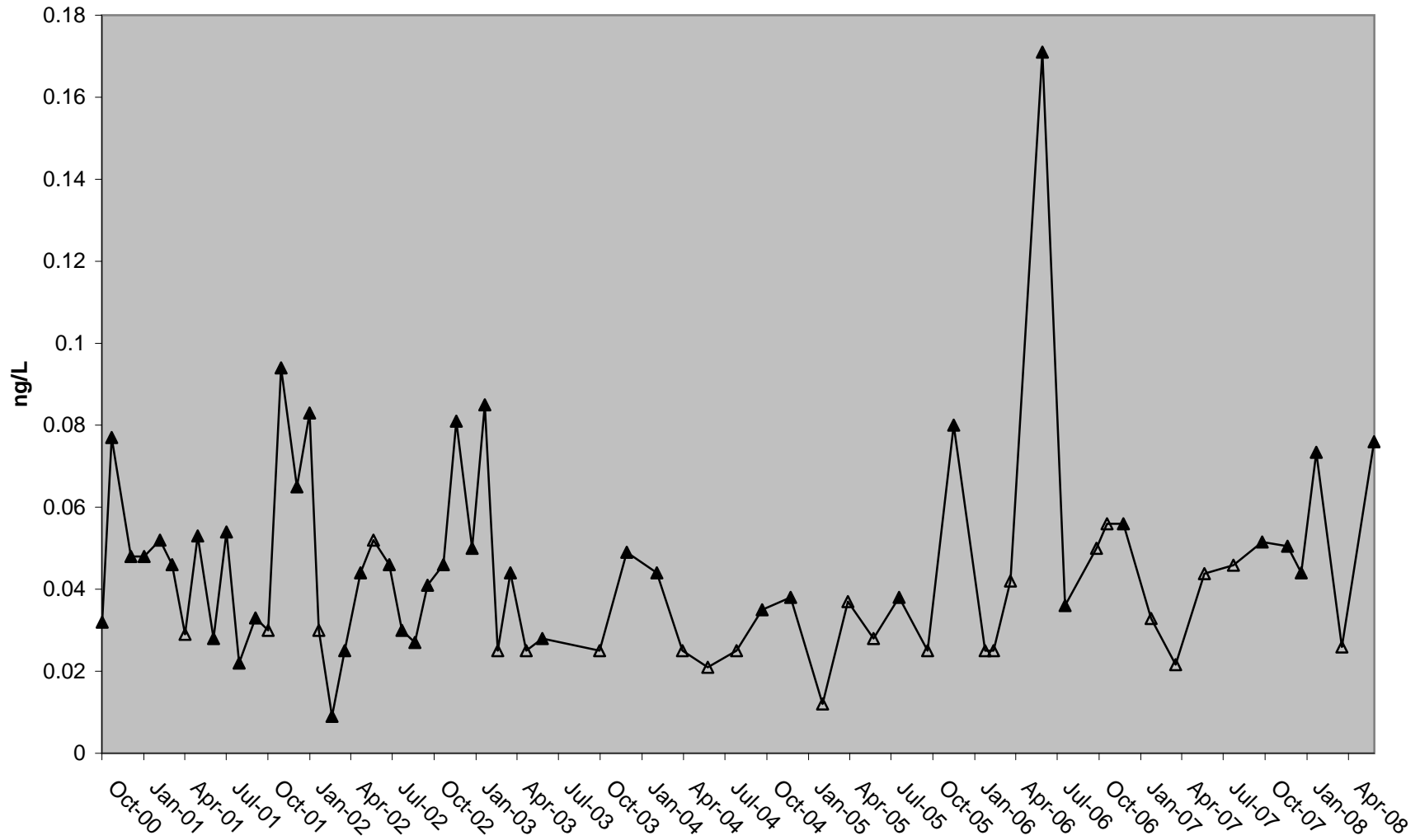
# Freeport Unfiltered Mercury

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result    - - - - - Limit



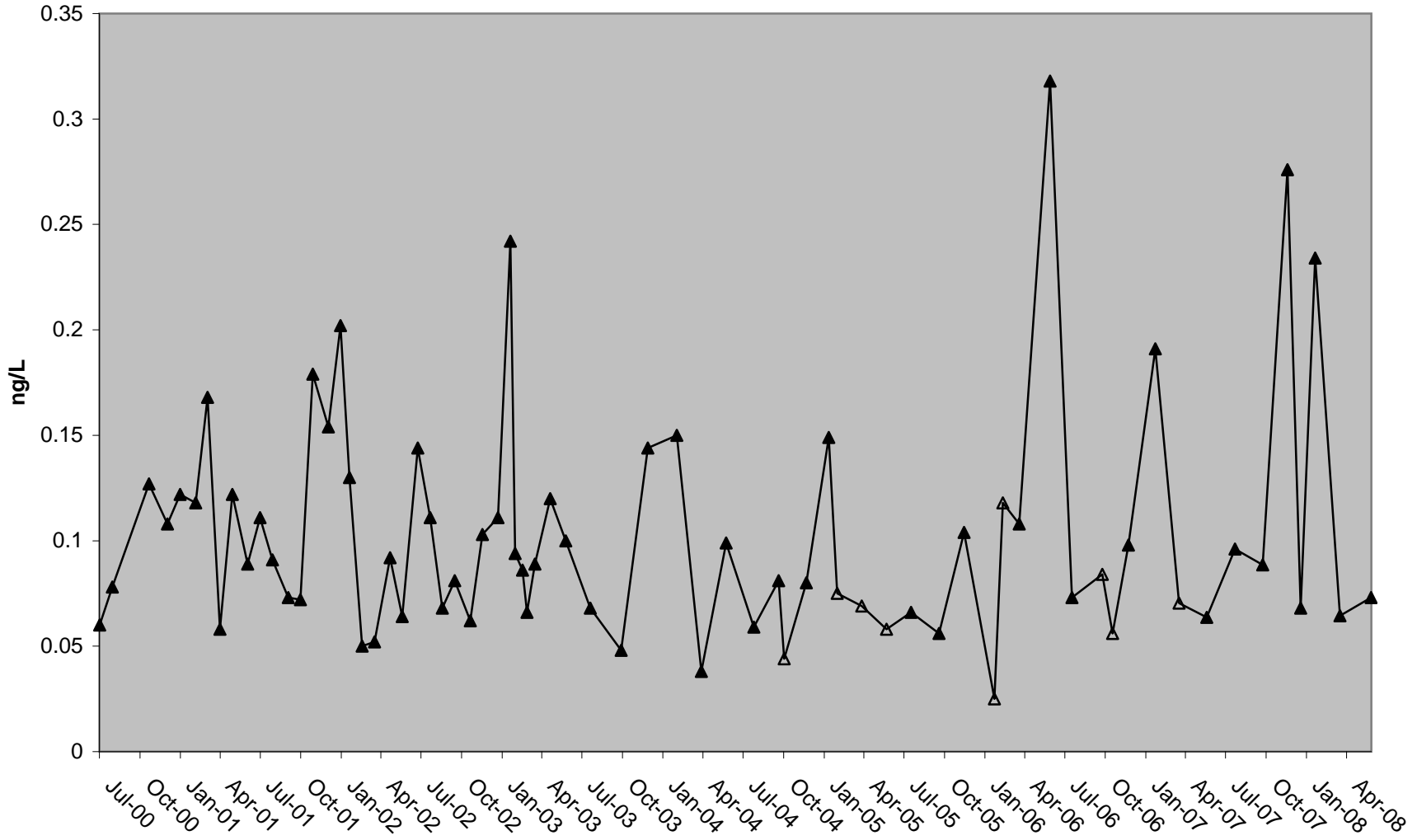
### Freeport Filtered Methyl Mercury

— Trendline    △ Below Detection    ▲ Result



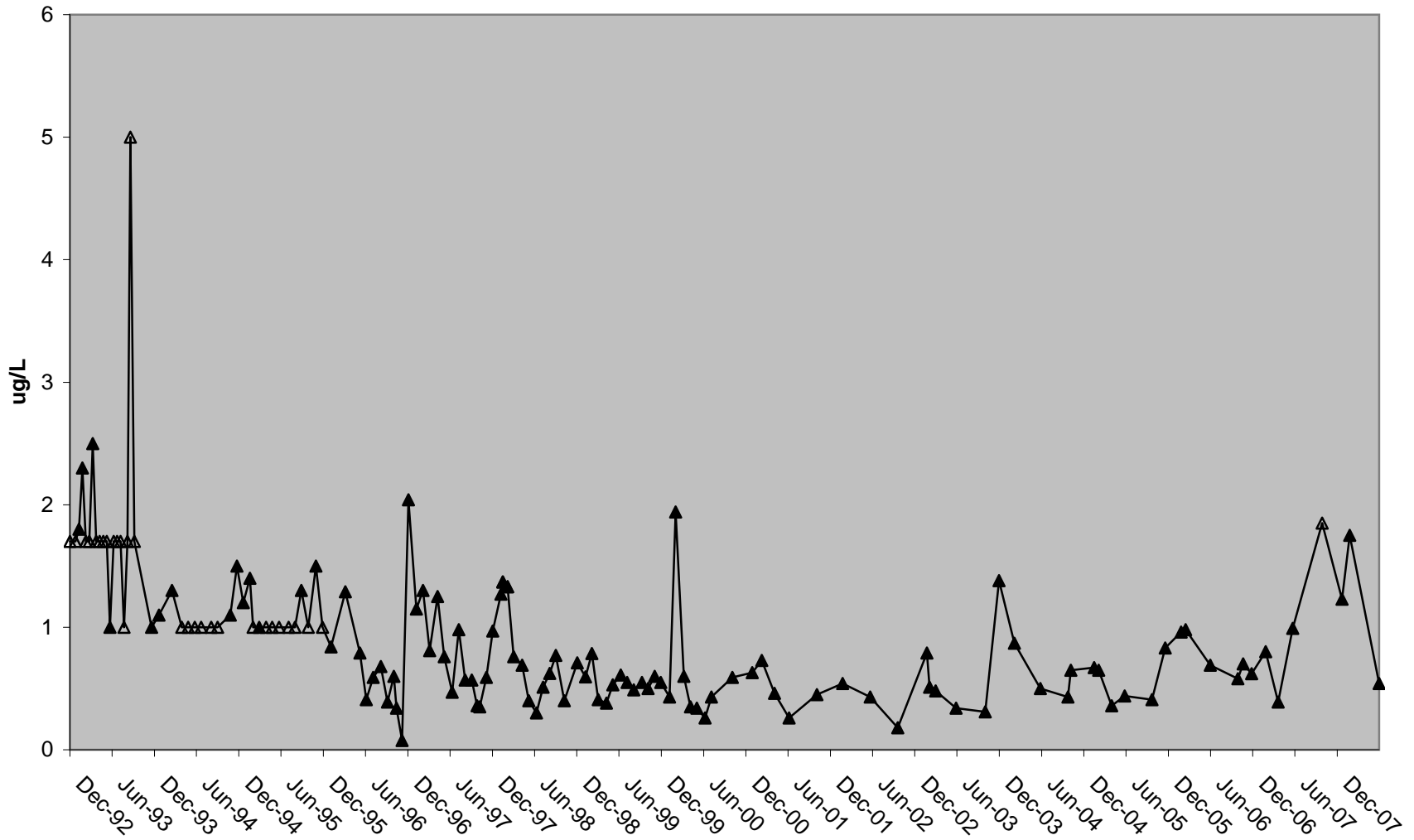
### Freeport Unfiltered Methyl Mercury

— Trendline    △ Below Detection    ▲ Result



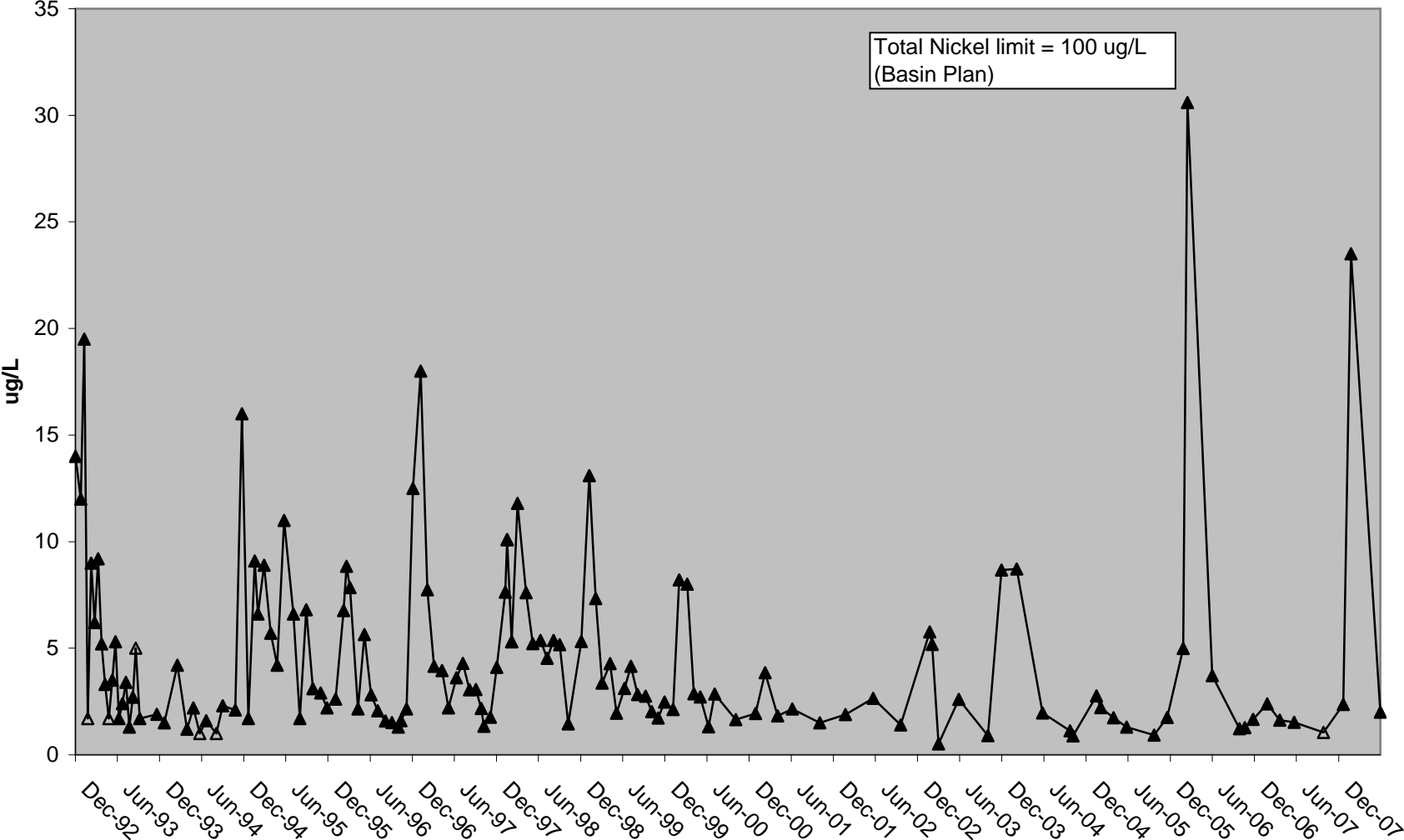
### Freeport Dissolved Nickel (Ni-d)

— Trendline    △ Below Detection    ▲ Result



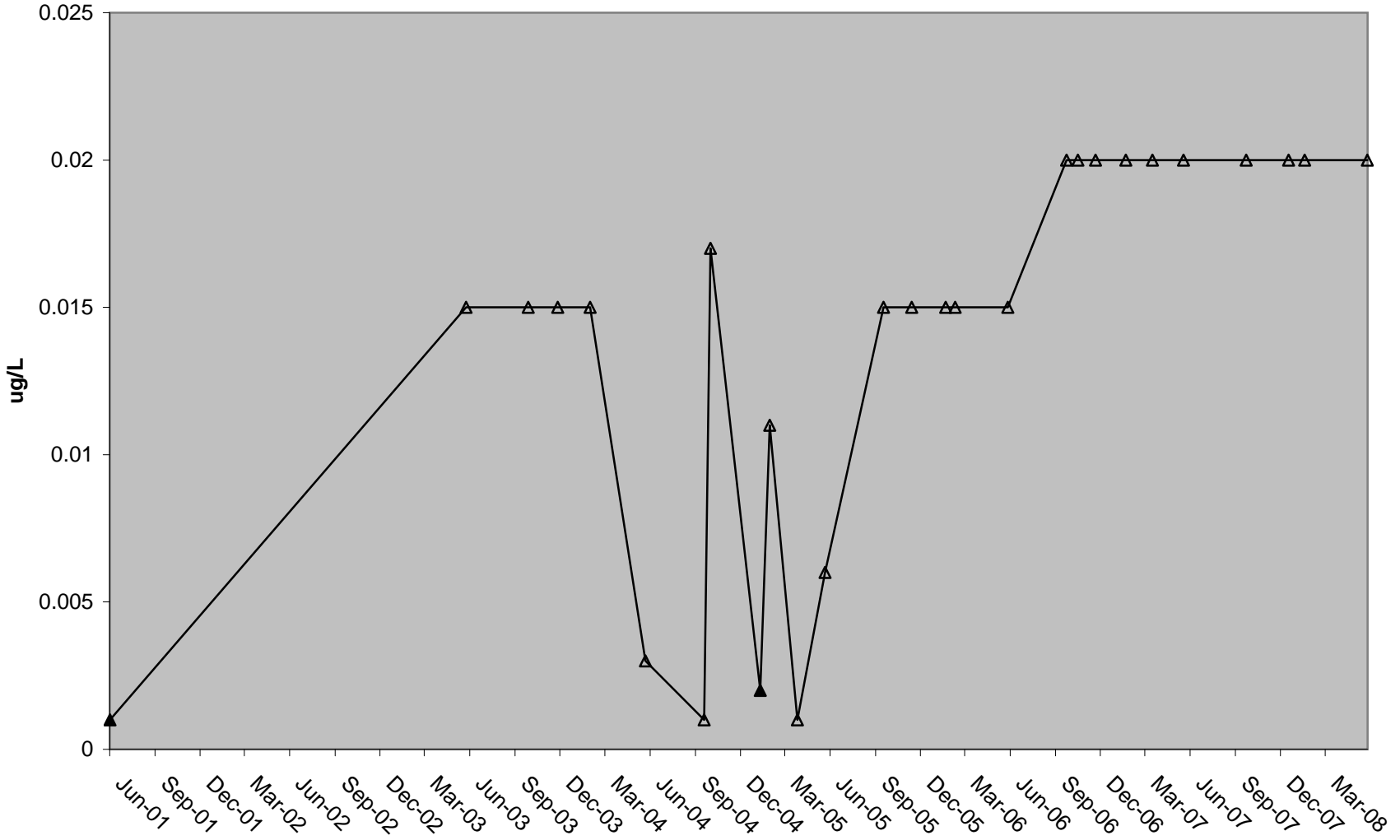
### Freeport Total Nickel (Ni-t)

— Trendline    △ Below Detection    ▲ Result



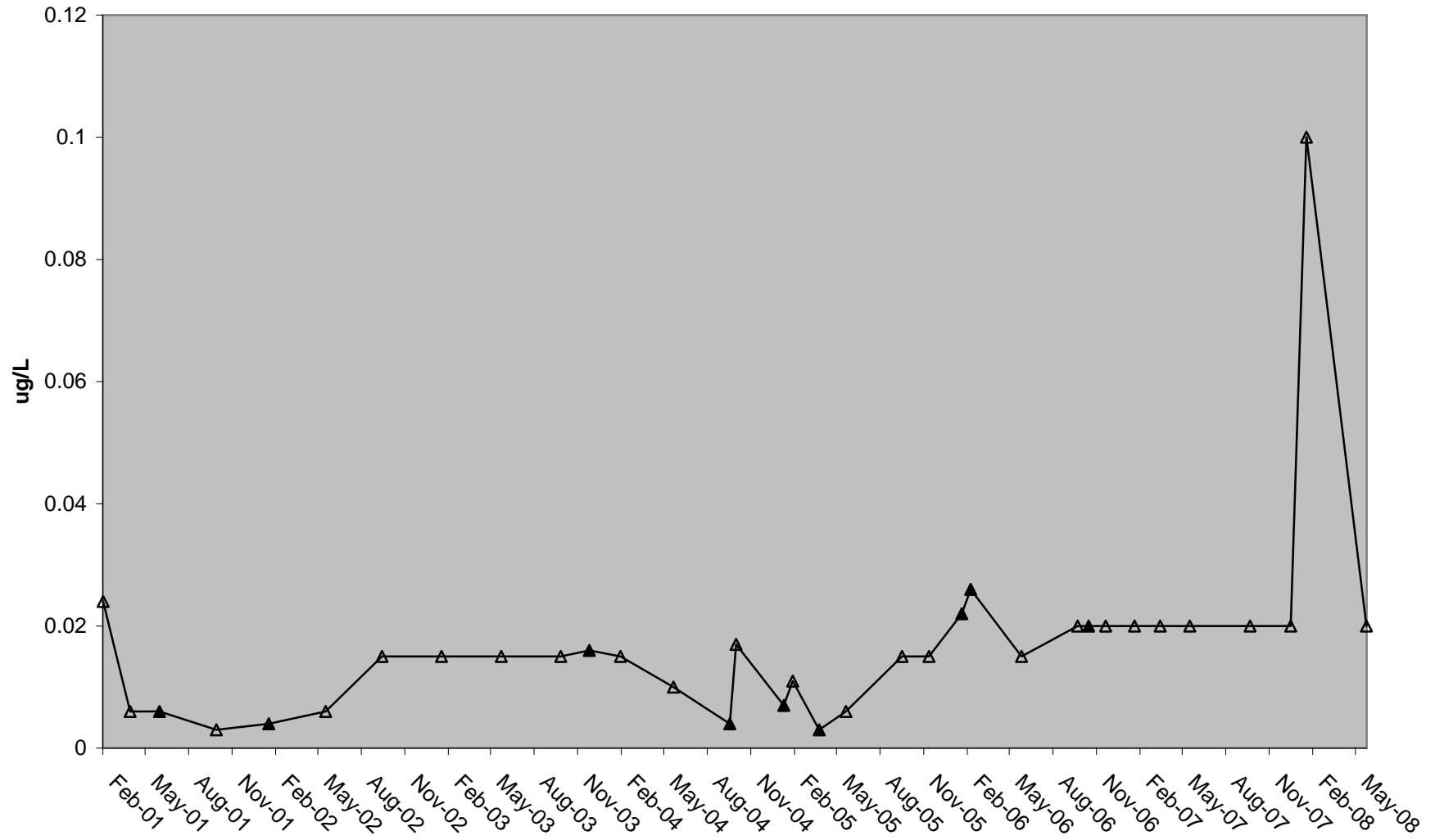
### Freeport Dissolved Silver (Ag-d)

— Trendline    △ Below Detection    ▲ Result



### Freeport Total Silver (Ag-T)

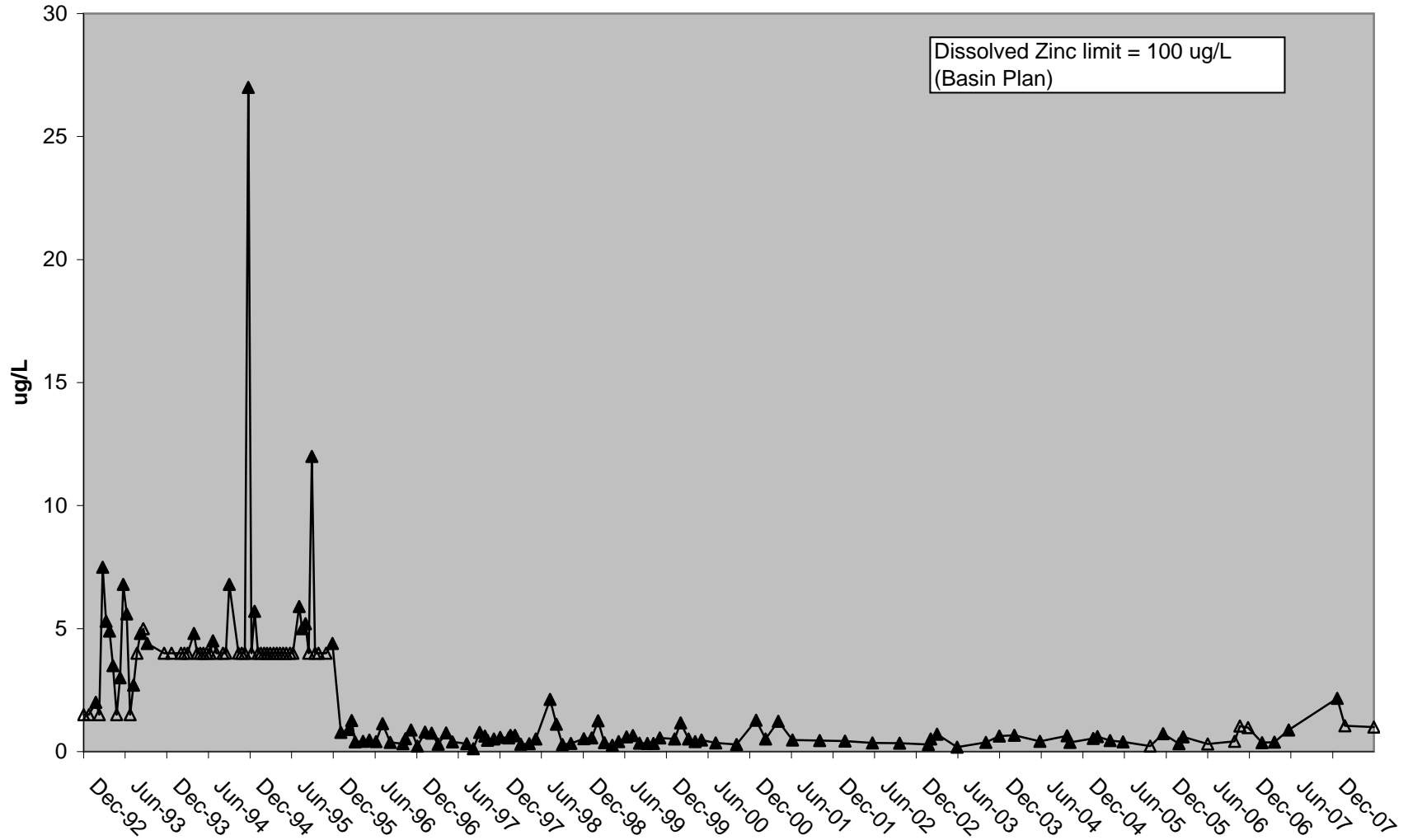
— Trendline    Δ Below Detection    ▲ Result



# Freeport Dissolved Zinc (Zn-d)

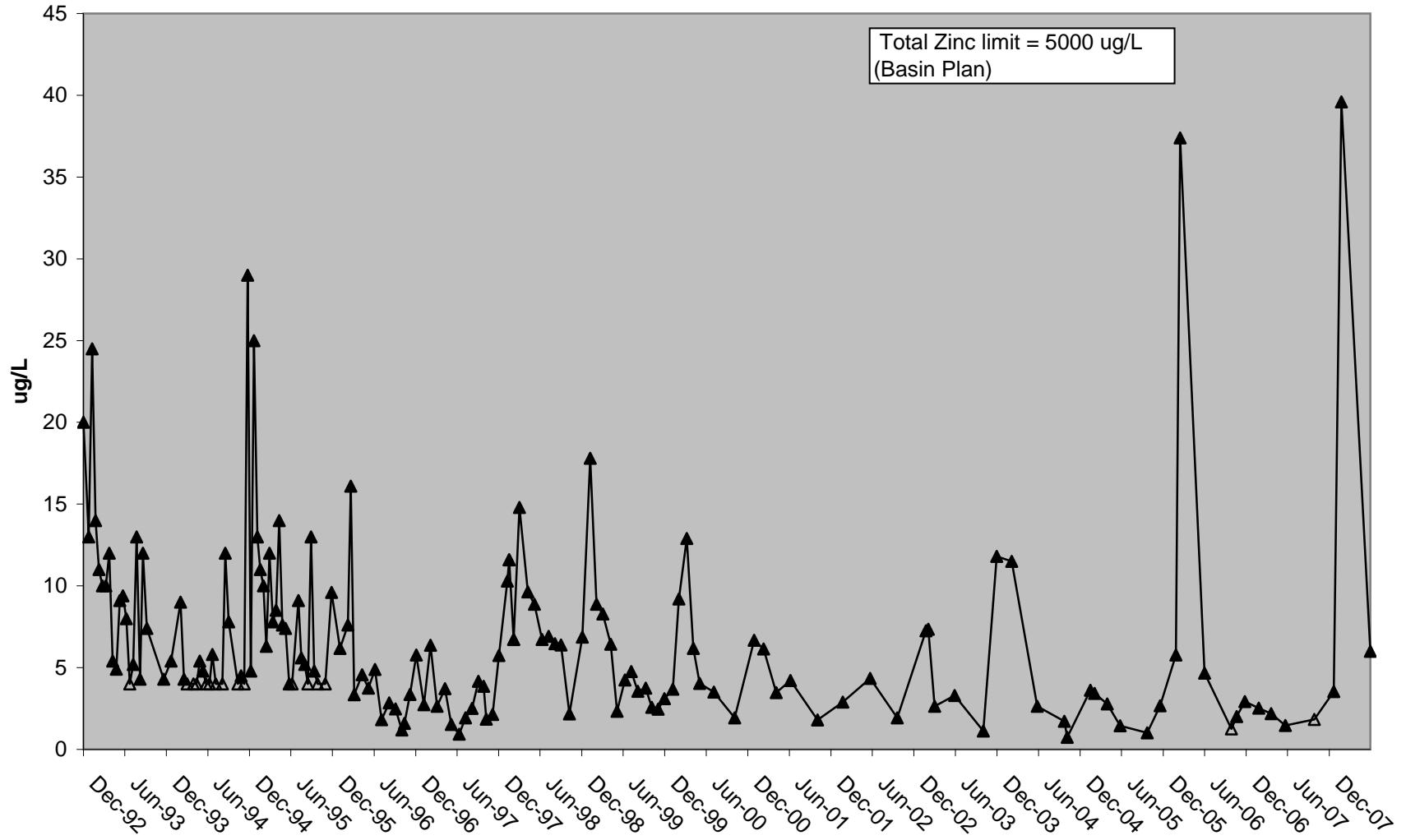
— Trendline    △ Below Detection    ▲ Result

Dissolved Zinc limit = 100 ug/L  
(Basin Plan)



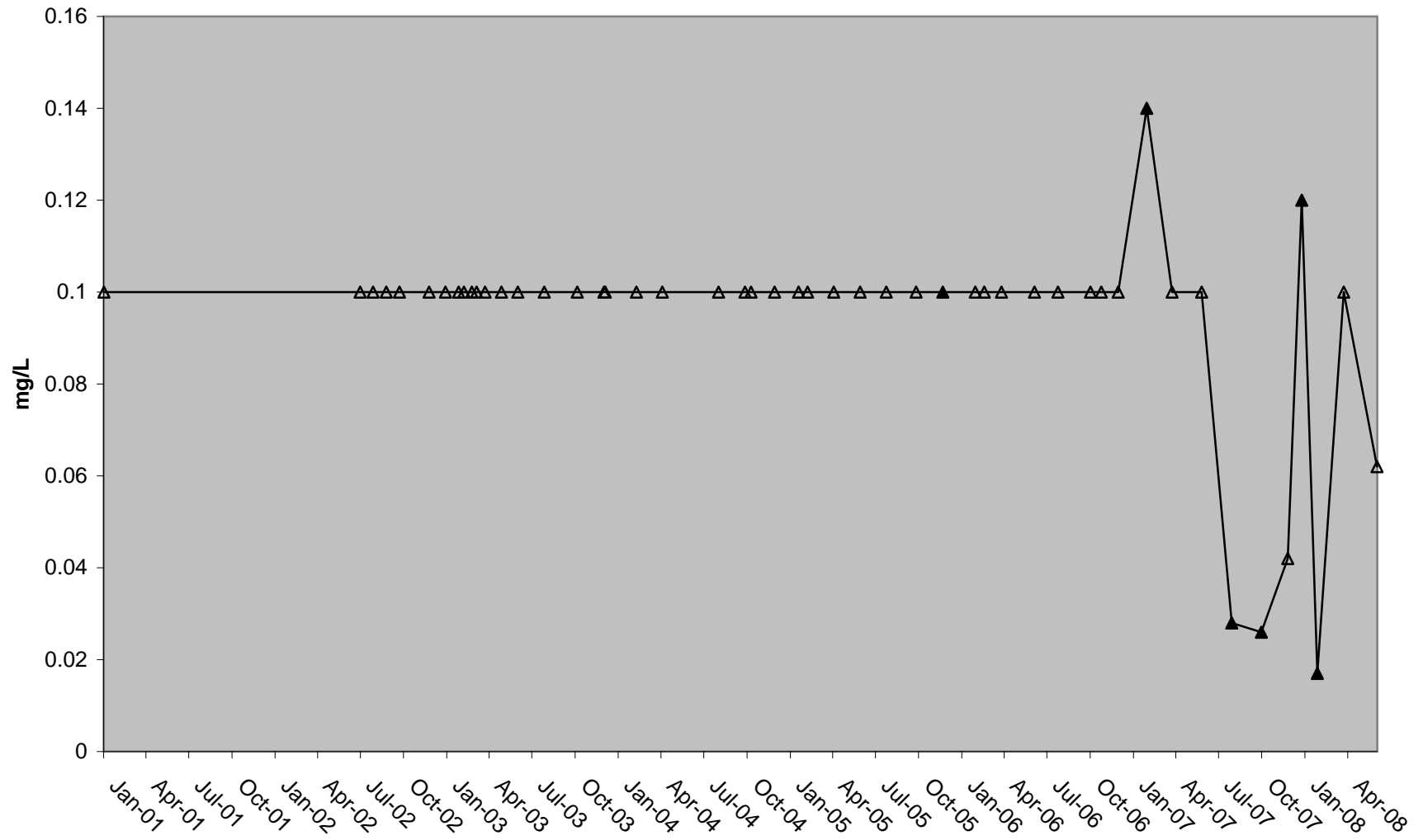
# Freeport Total Zinc (Zn-T)

— Trendline    △ Below Detection    ▲ Result



### Freeport Ammonia (NH<sub>3</sub>-N)

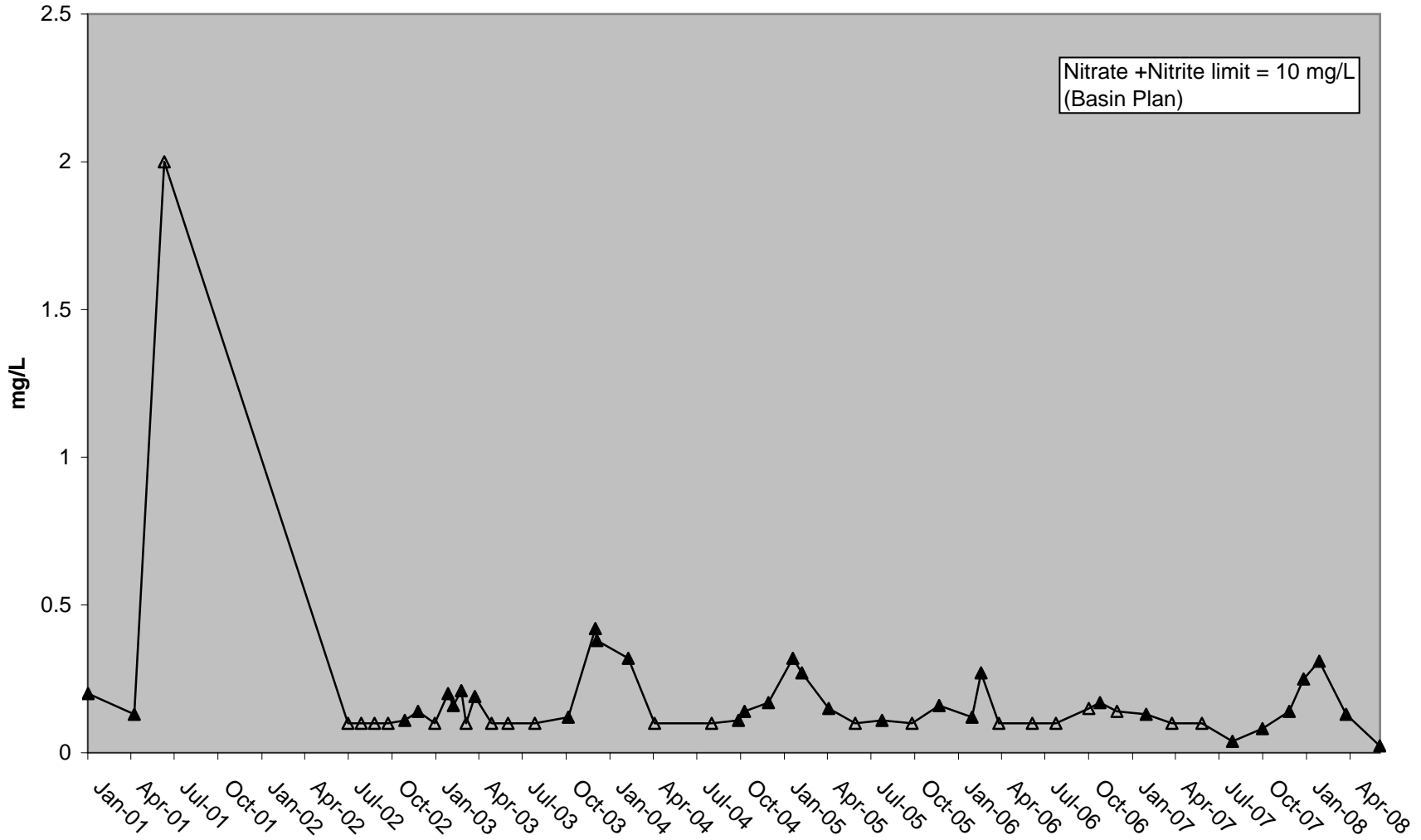
— Trendline    △ Below Detection    ▲ Result



# Freeport Nitrate (NO<sub>3</sub>-N)

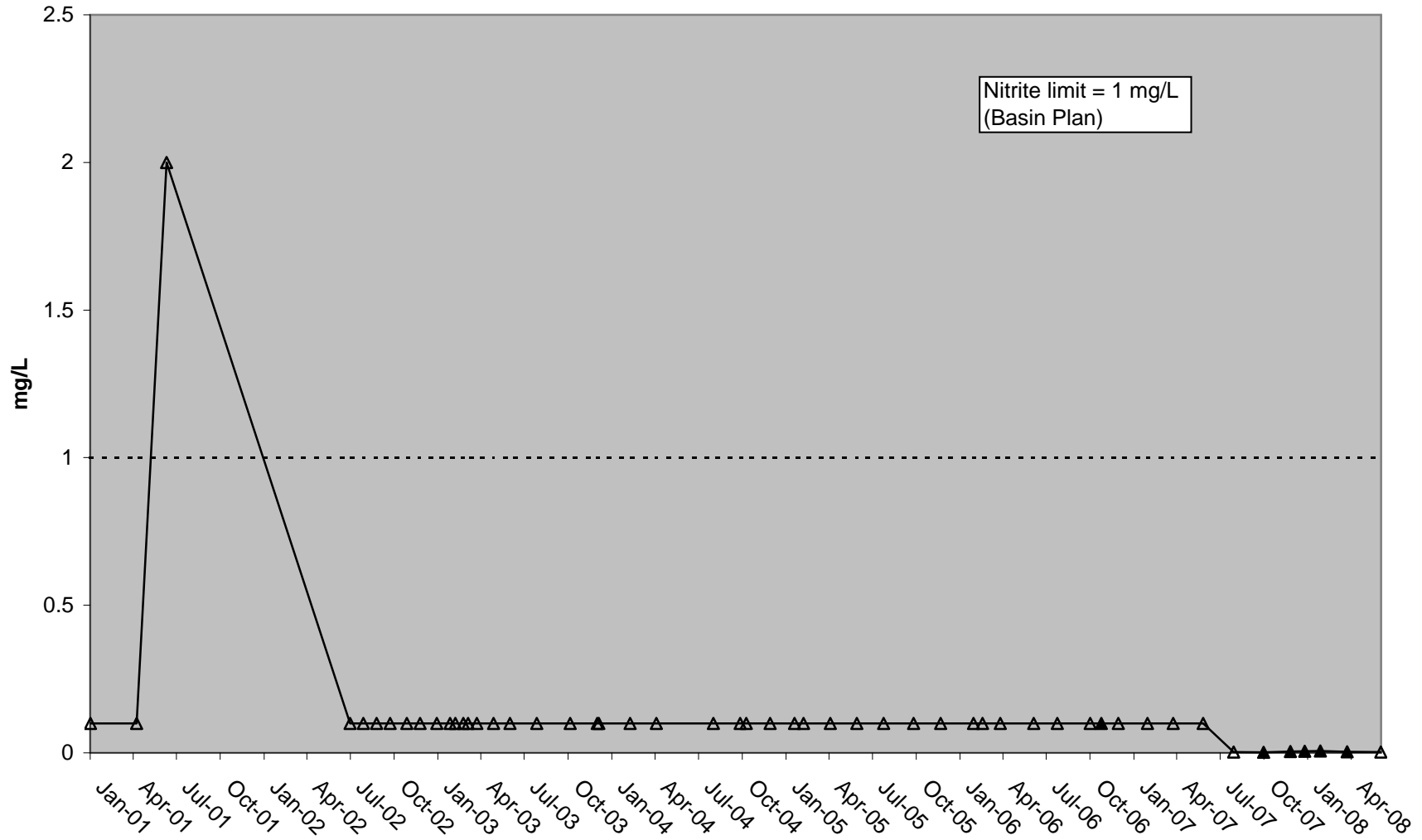
— Trendline    △ Below Detection    ▲ Result

Nitrate +Nitrite limit = 10 mg/L  
(Basin Plan)



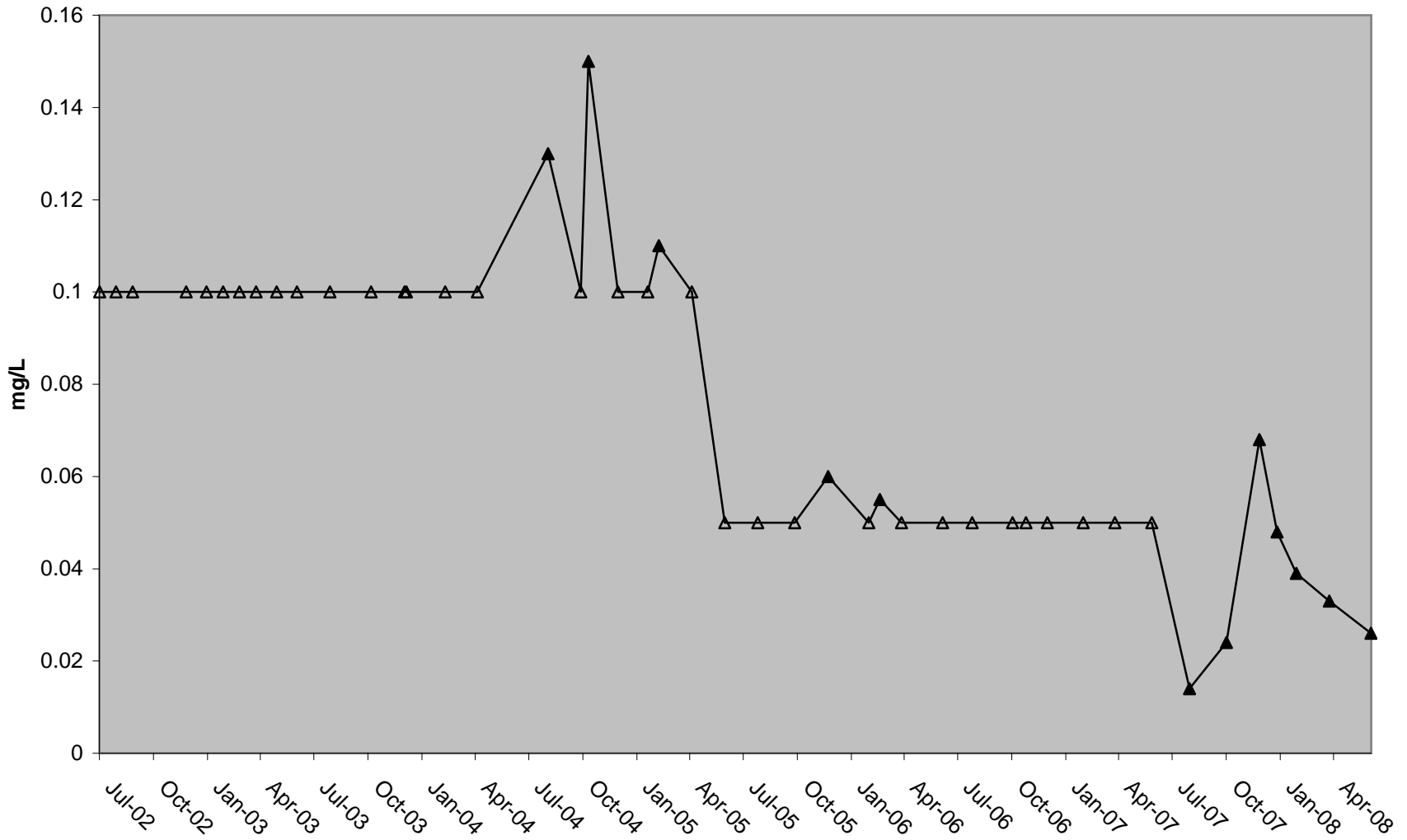
# Freeport Nitrite (NO<sub>2</sub>-N)

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



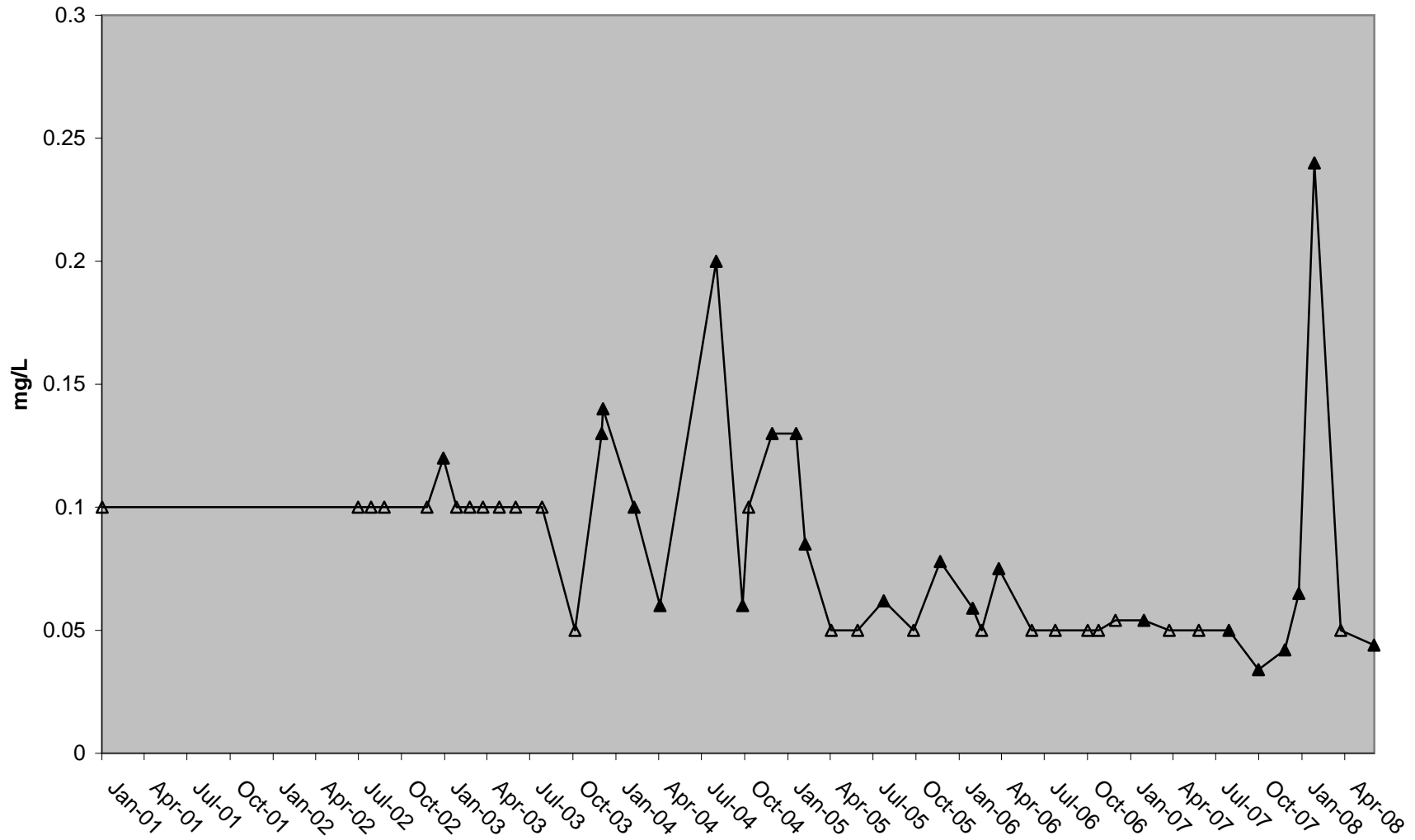
### Freeport Dissolved Ortho-Phosphate

— Trendline    △ Below Detection    ▲ Result



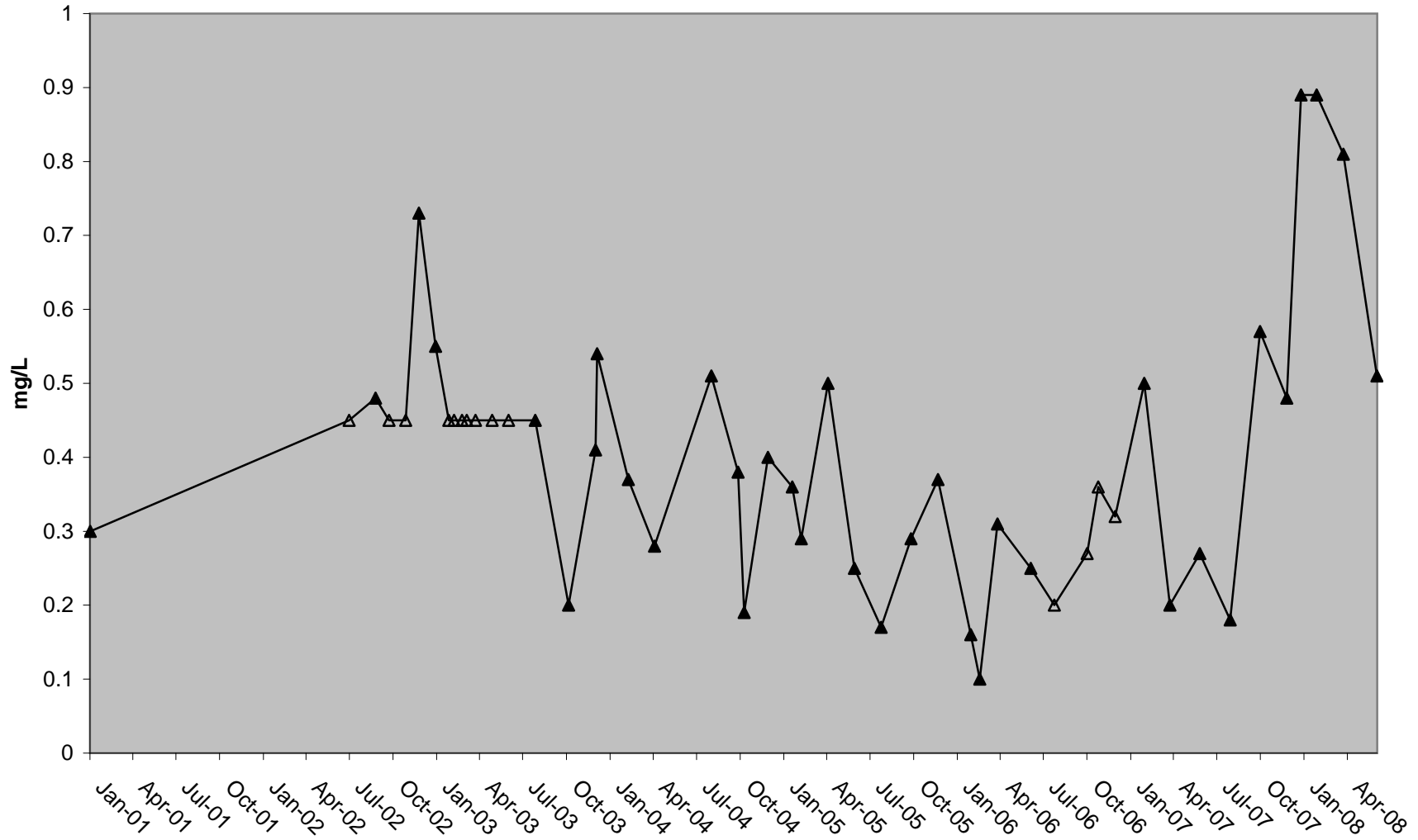
### Freeport Total Phosphorus (TP)

— Trendline    Δ Below Detection    ▲ Result

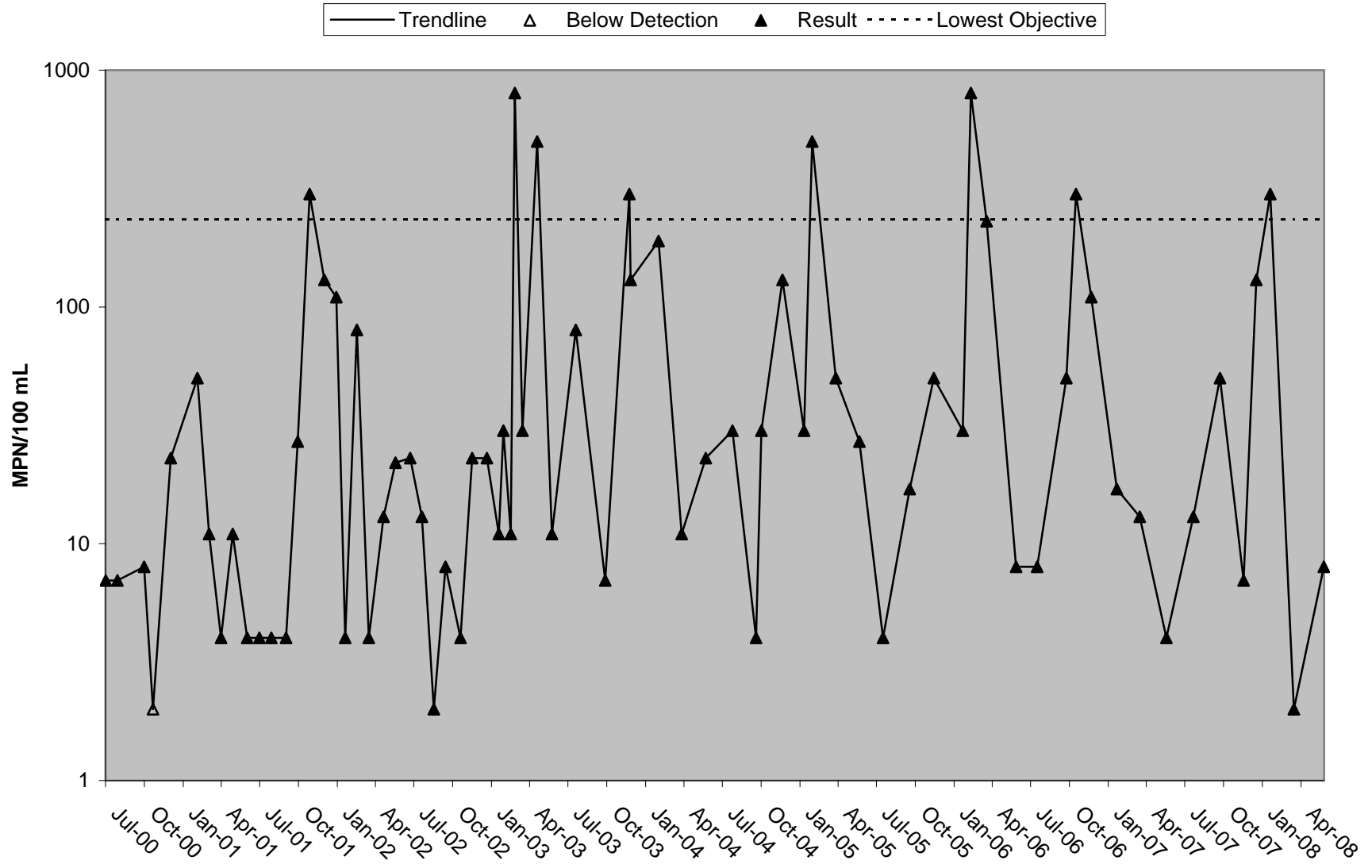


### Freeport Total Kjeldahl Nitrogen (TKN)

— Trendline    △ Below Detection    ▲ Result

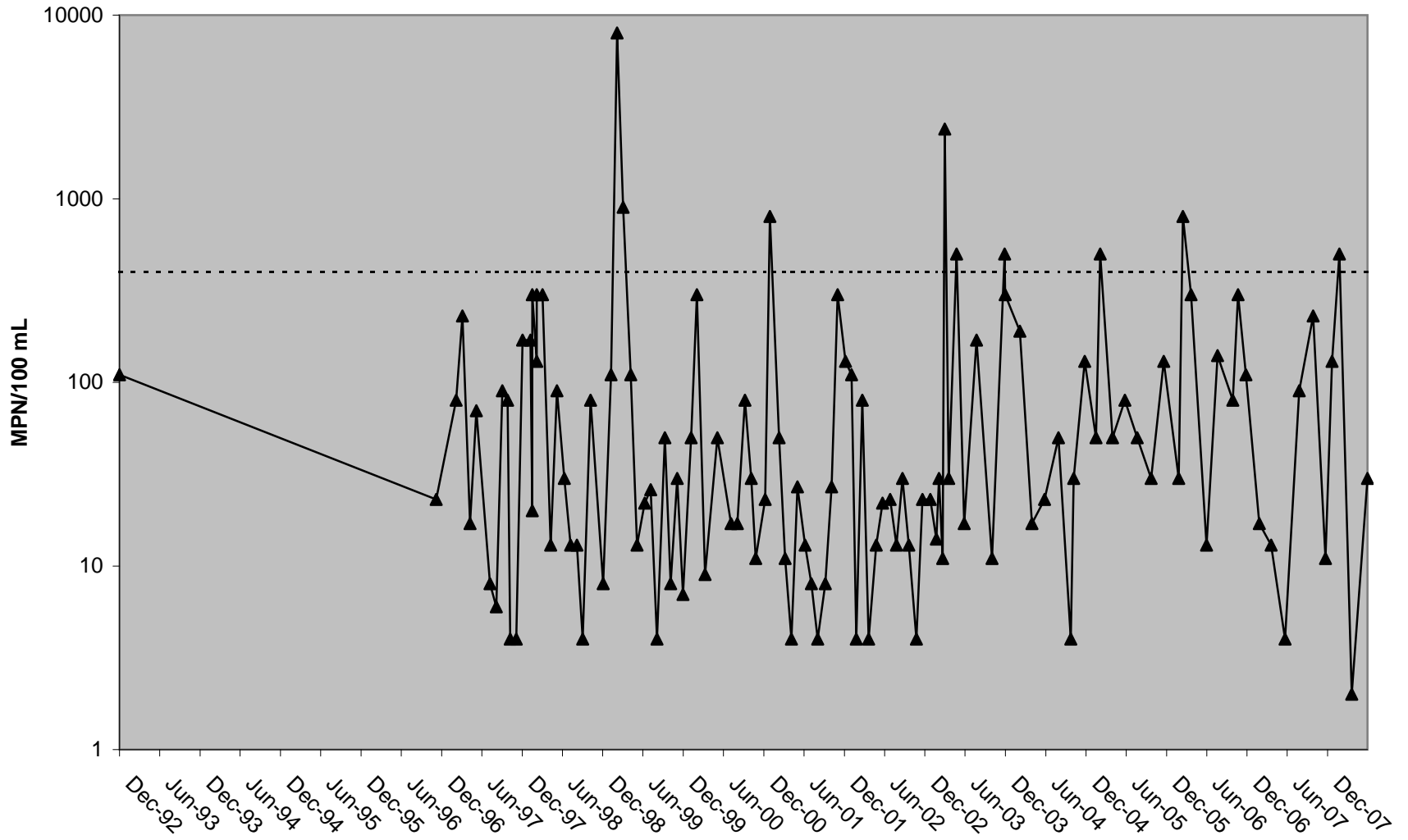


### Freeport *E. coli*



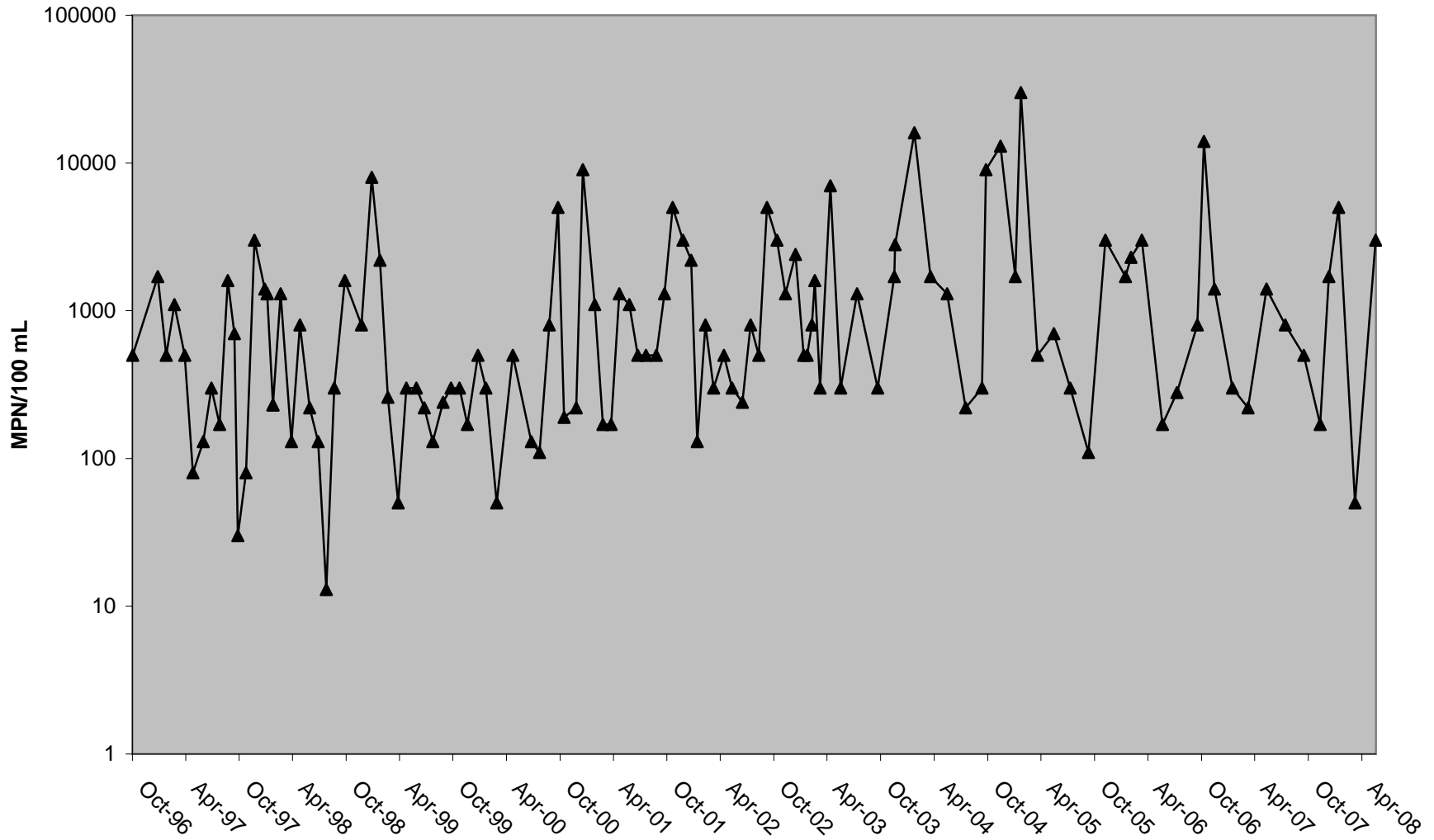
# Freeport Fecal Coliform

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



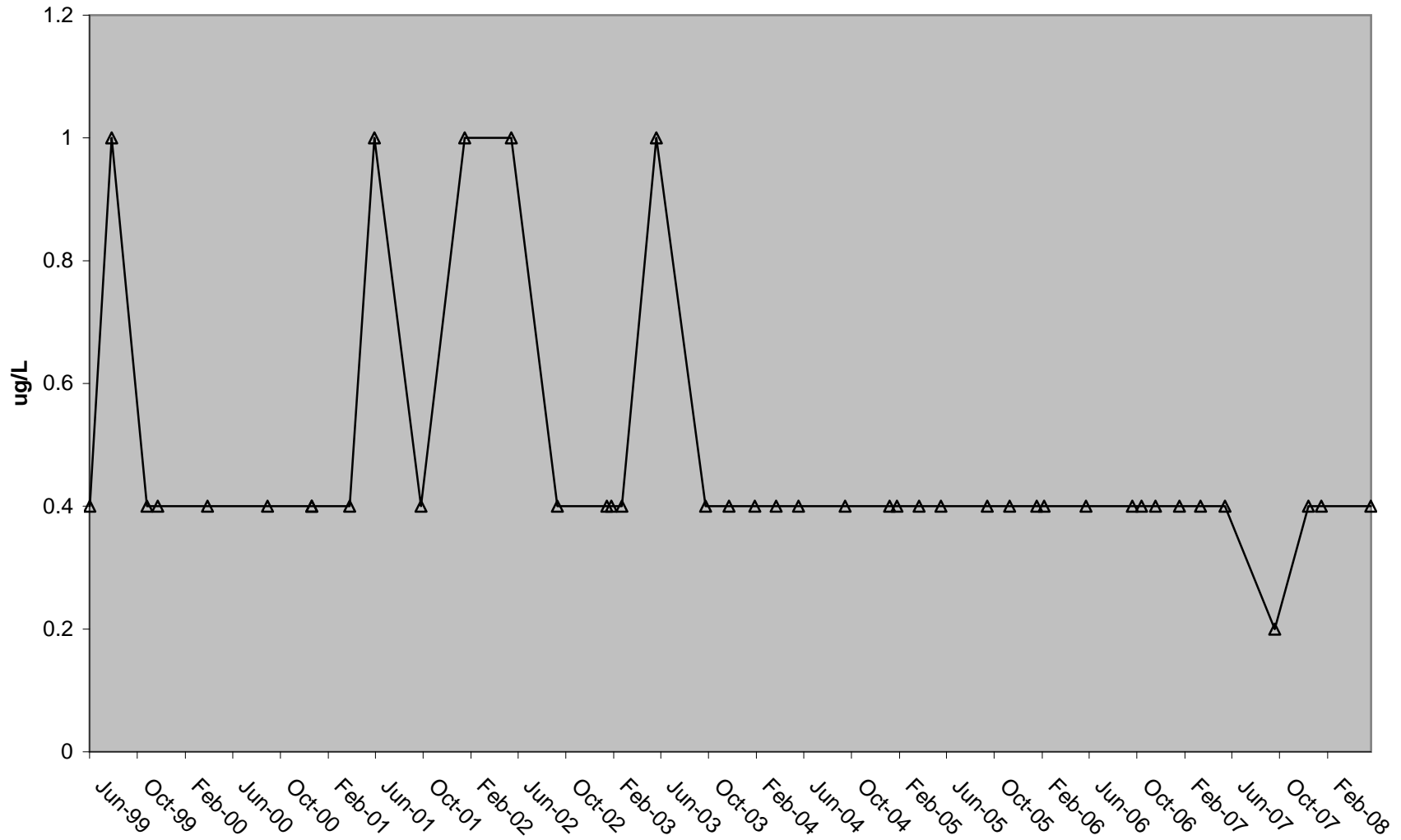
# Freeport Total Coliform

— Trendline    Δ Below Detection    ▲ Result



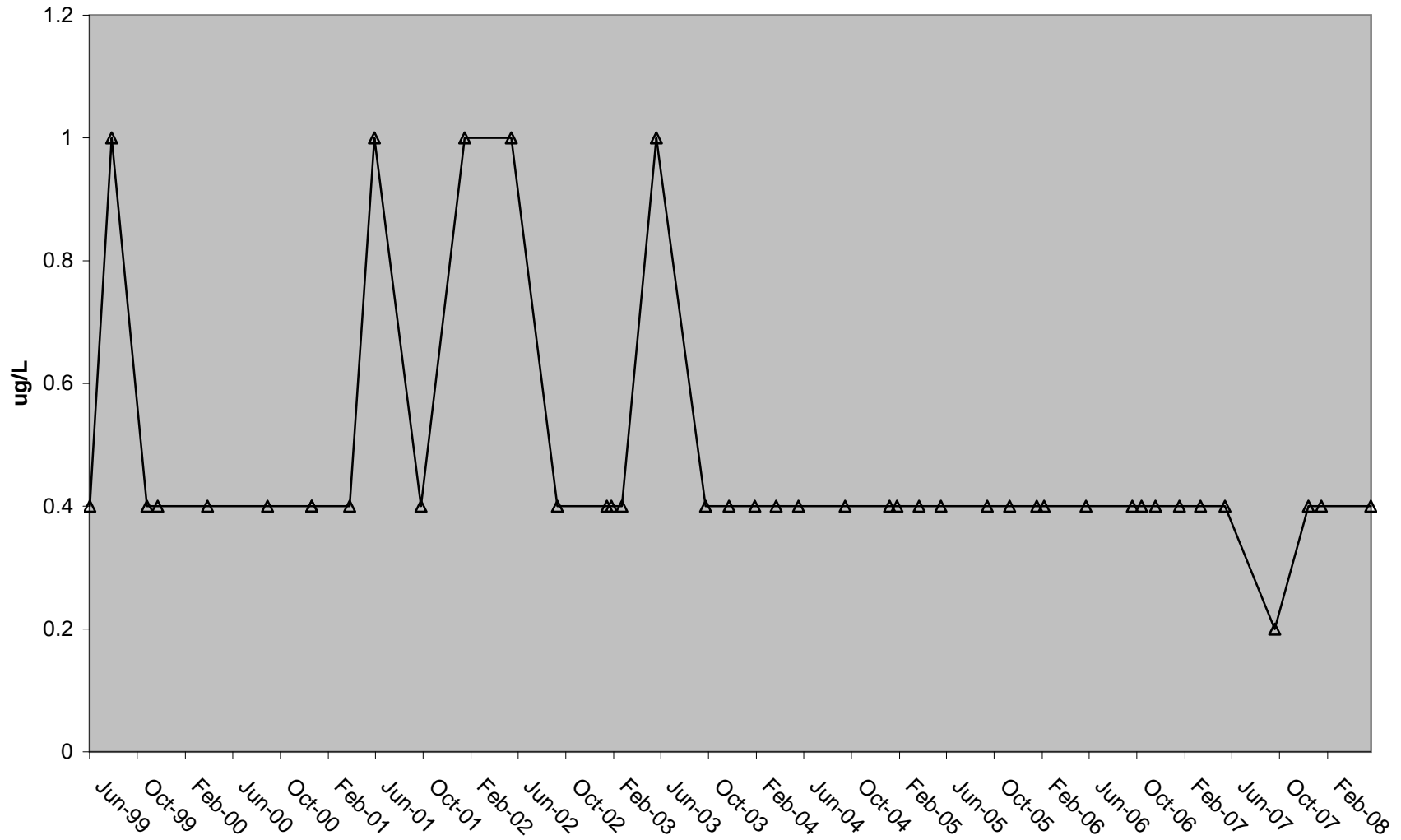
# Freeport Aldicarb

— Trendline    △ Below Detection    ▲ Result



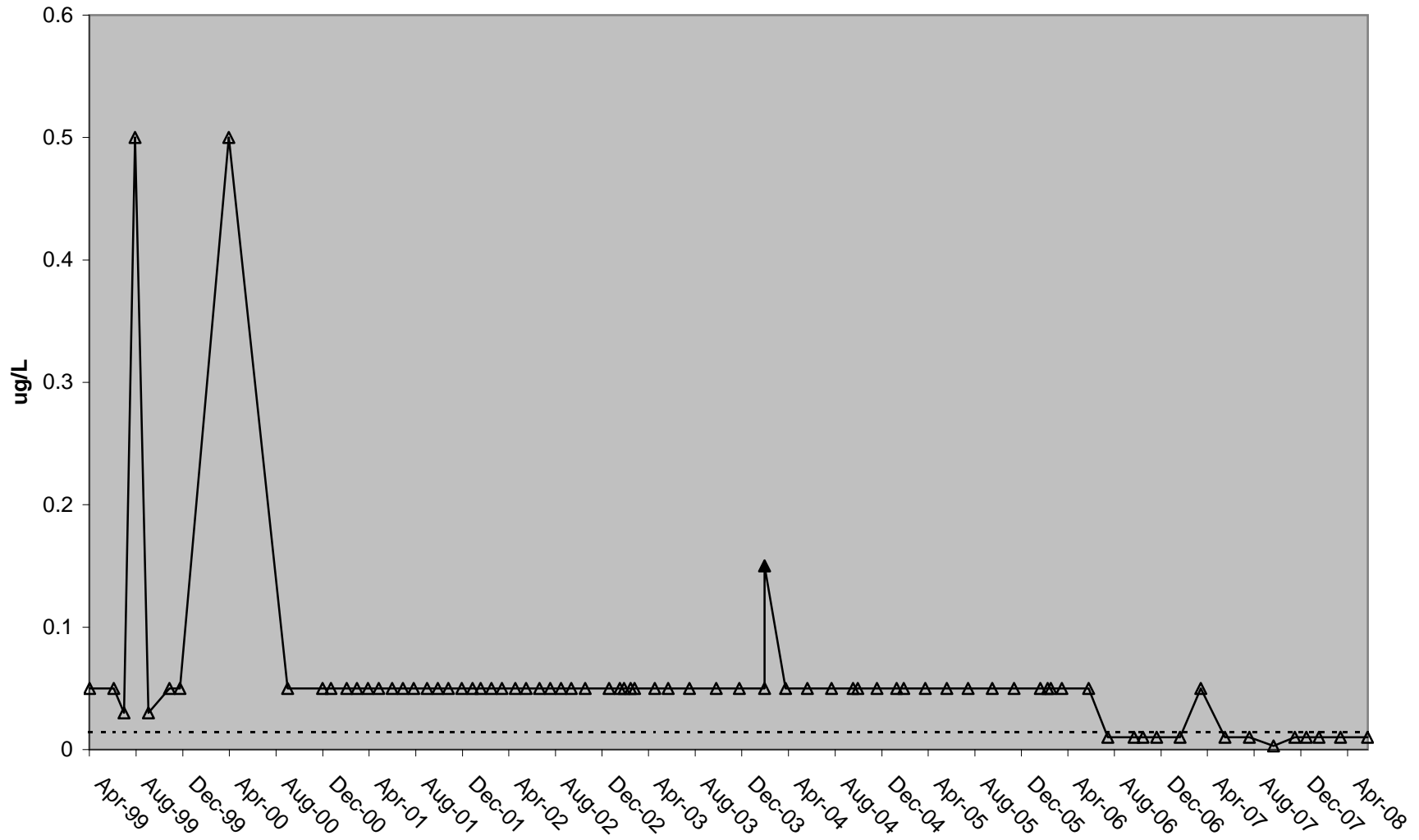
# Freeport Propoxur

— Trendline    △ Below Detection    ▲ Result



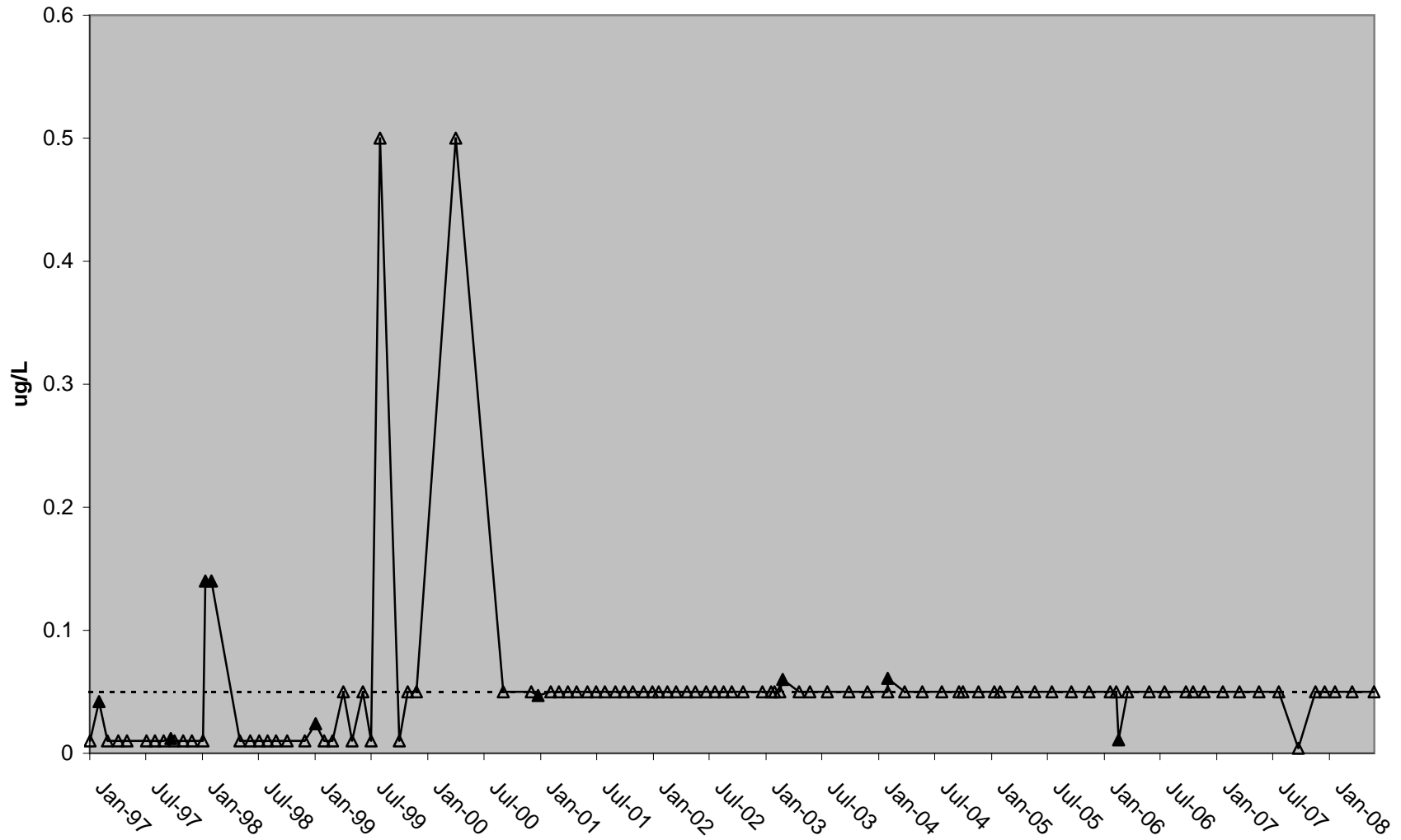
# Freeport Chlorpyrifos

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



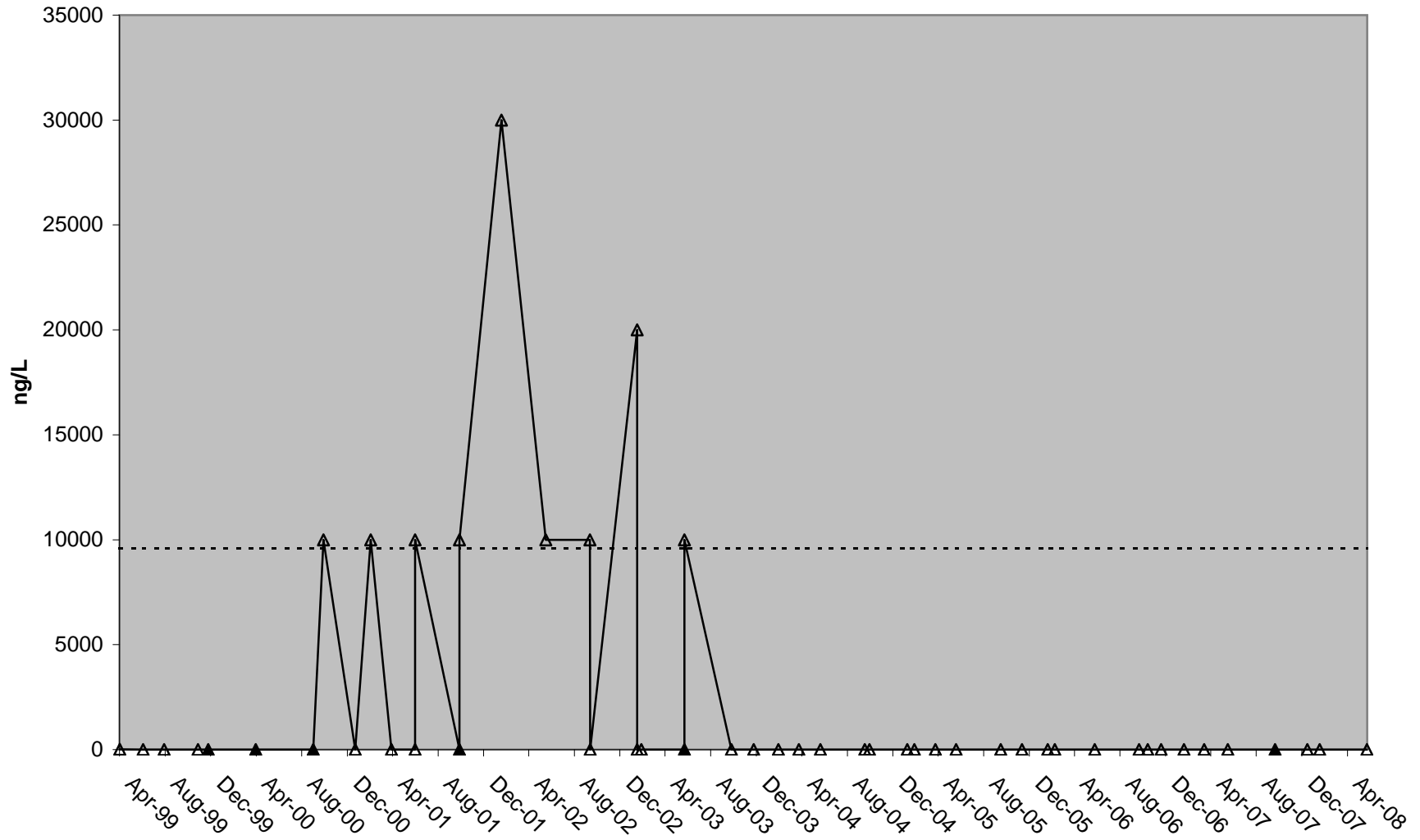
# Freeport Diazinon

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



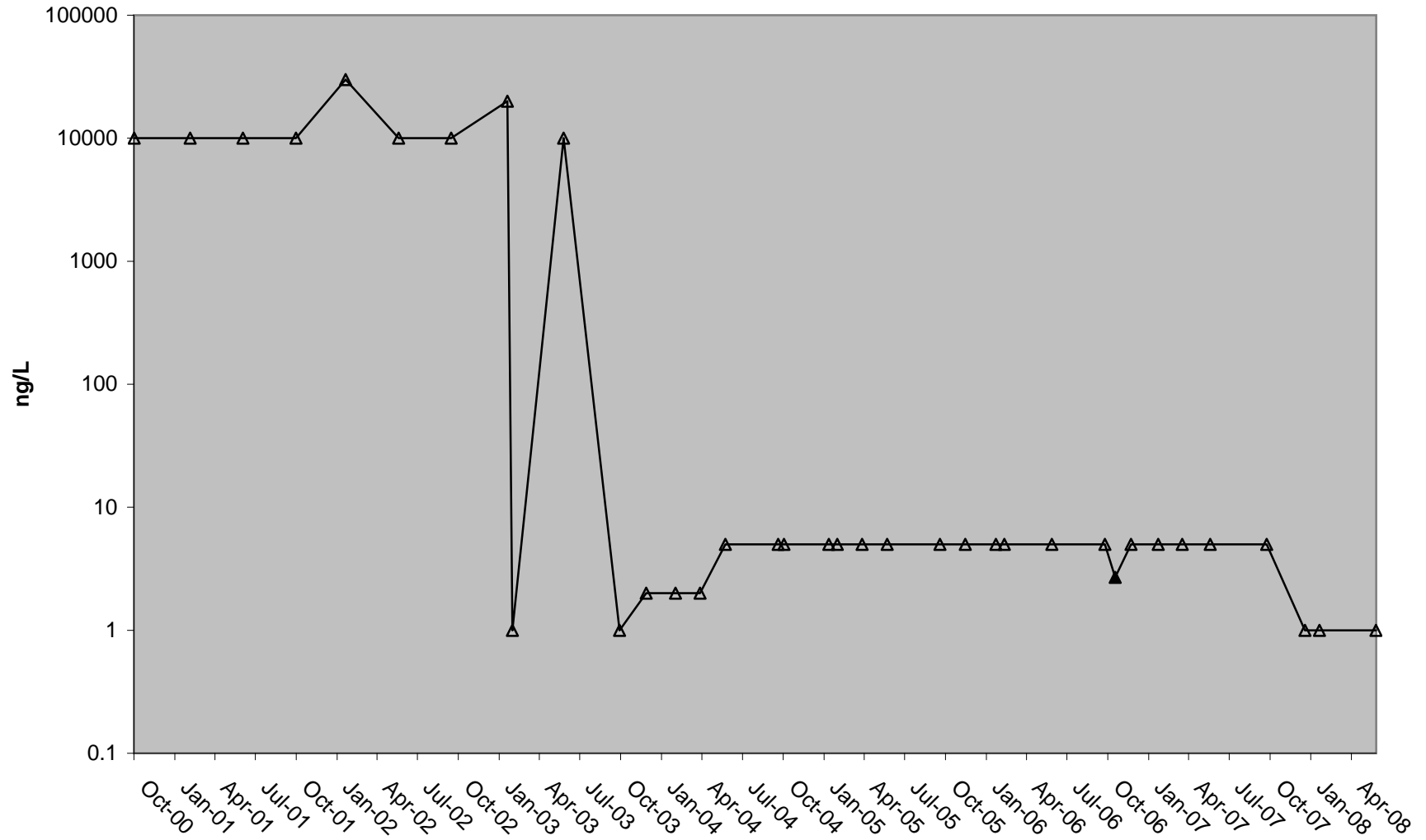
# Freeport Anthracene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



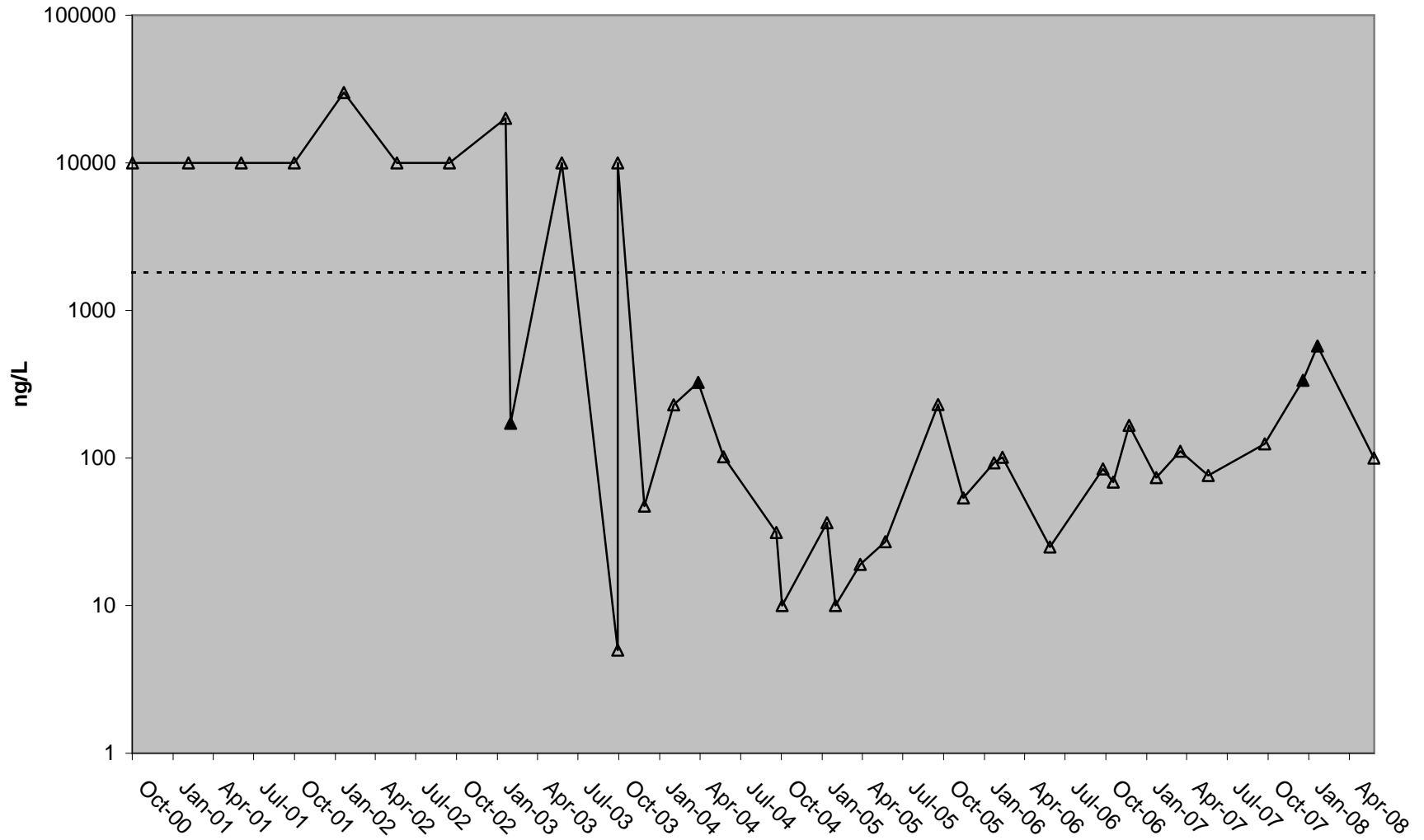
# Freeport Benzo(k)fluoranthene

— Trendline    △ Below Detection    ▲ Result



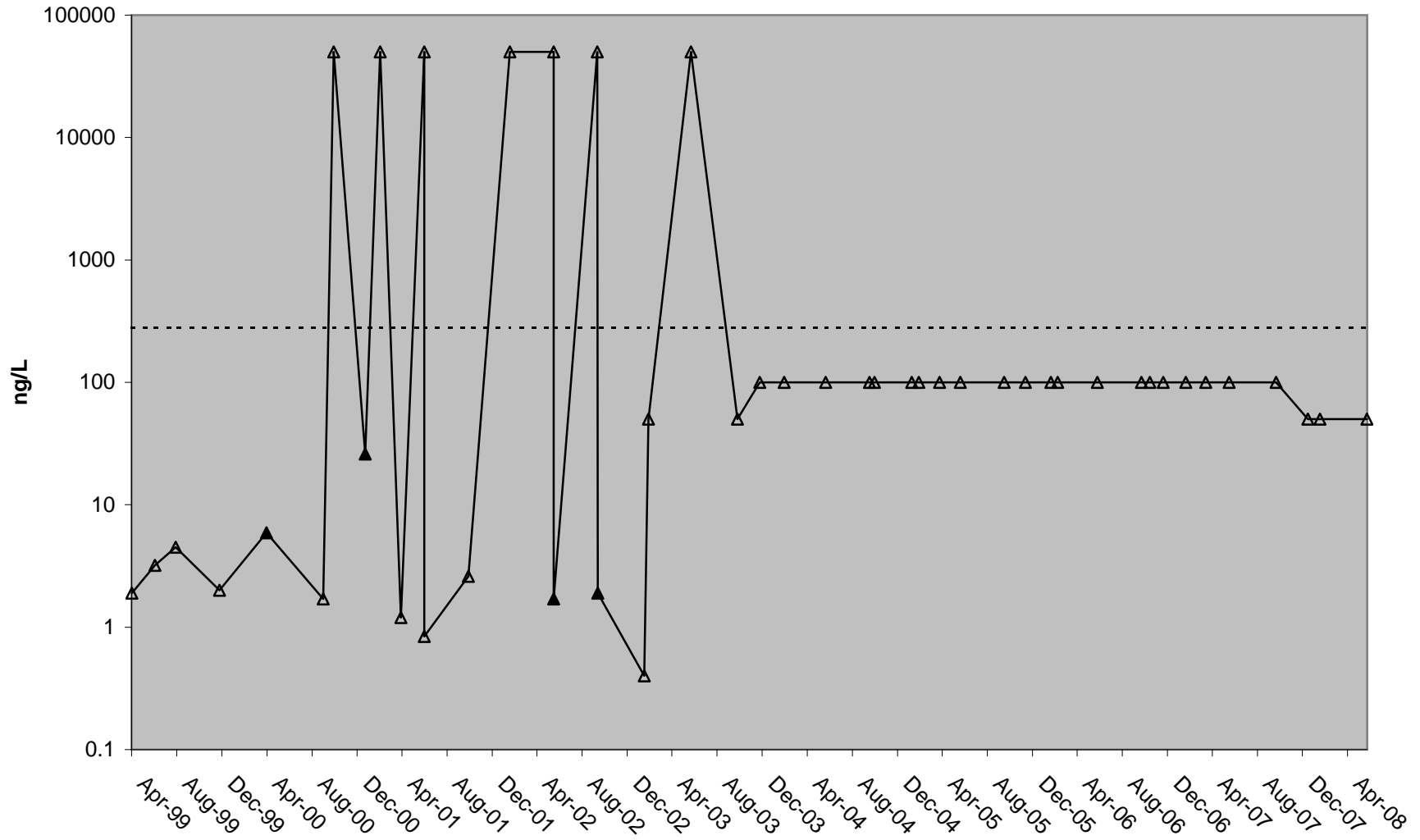
# Freeport Bis(2-ethylhexyl) phthalate

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



# Freeport Pentachlorophenol

— Trendline    Δ Below Detection    ▲ Result    - - - - - Limit



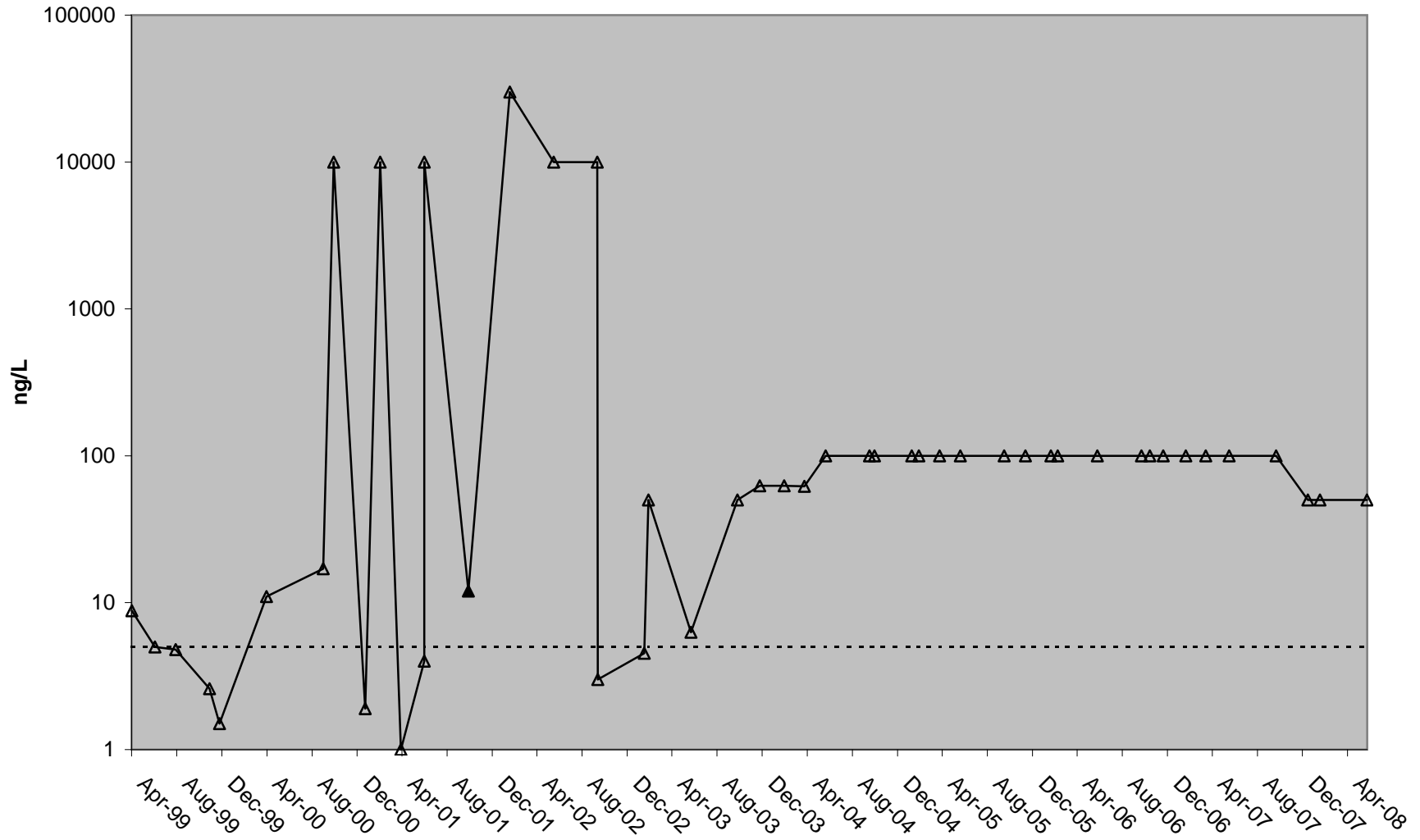
# Freeport Hexachlorobenzene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



# Freeport N-Nitroso-Di-N-Propylamine

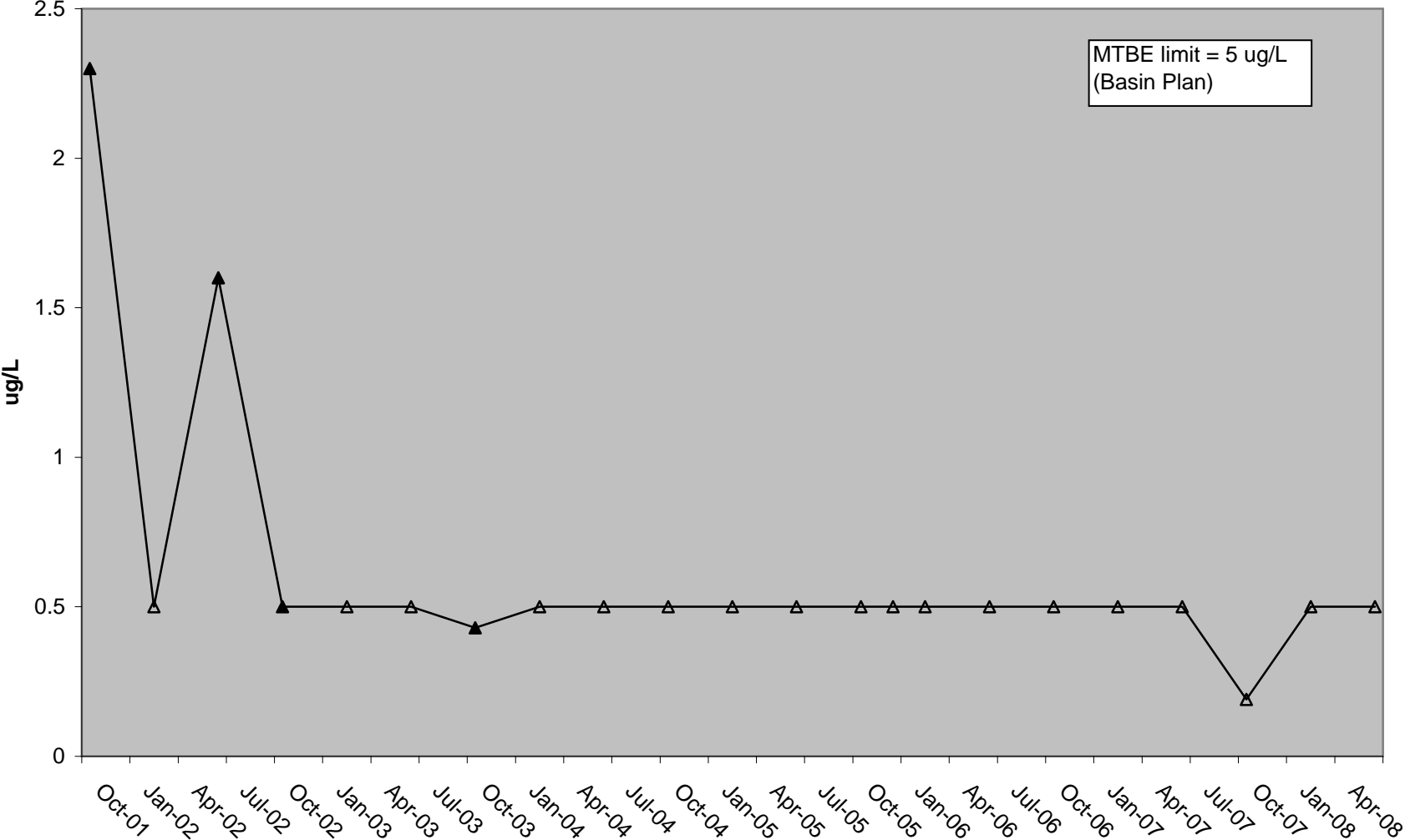
— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



# Freeport MTBE

— Trendline    △ Below Detection    ▲ Result

MTBE limit = 5 ug/L  
(Basin Plan)





*APPENDIX C-3*

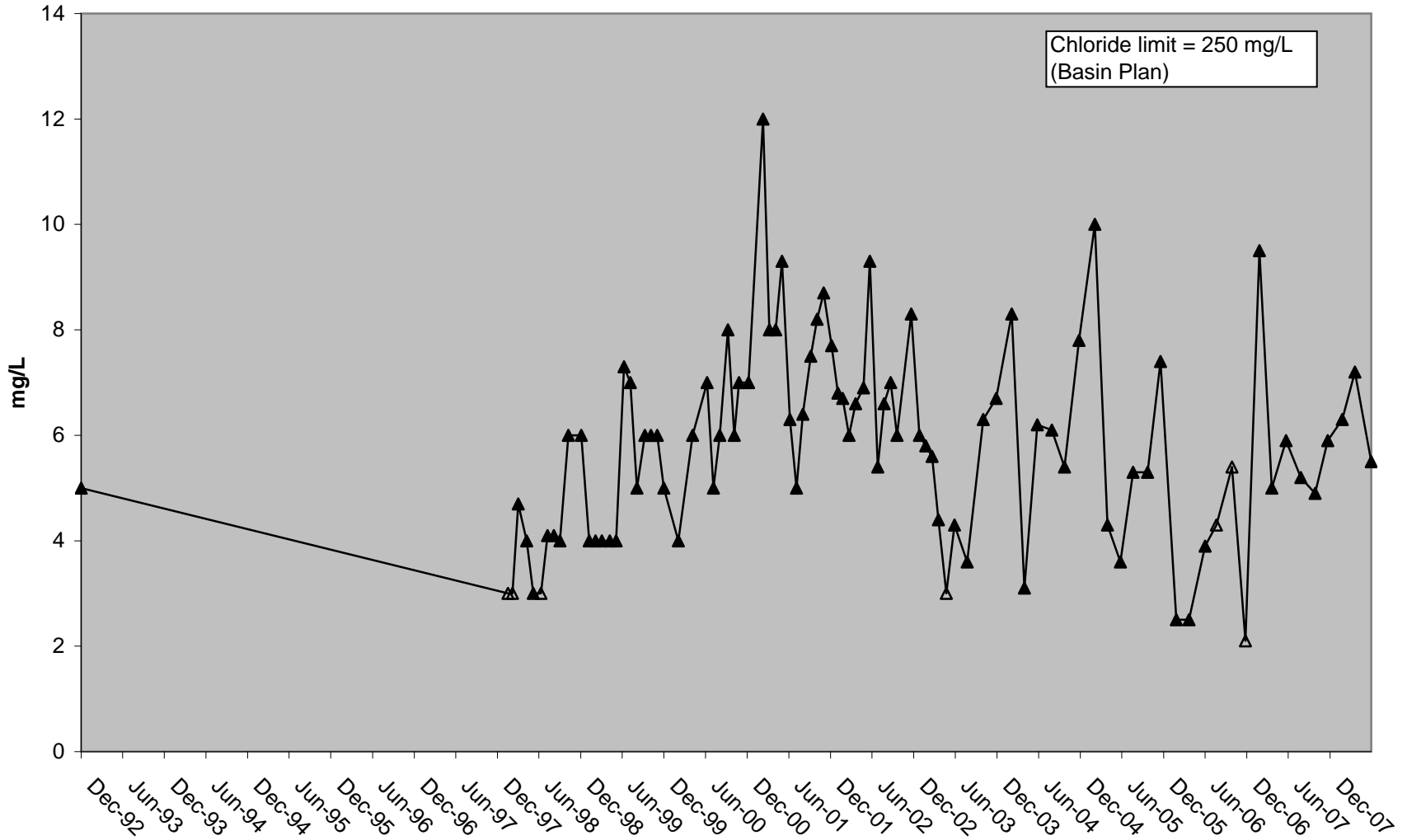
*Sacramento River at RM 44*



# River Mile 44 Chloride

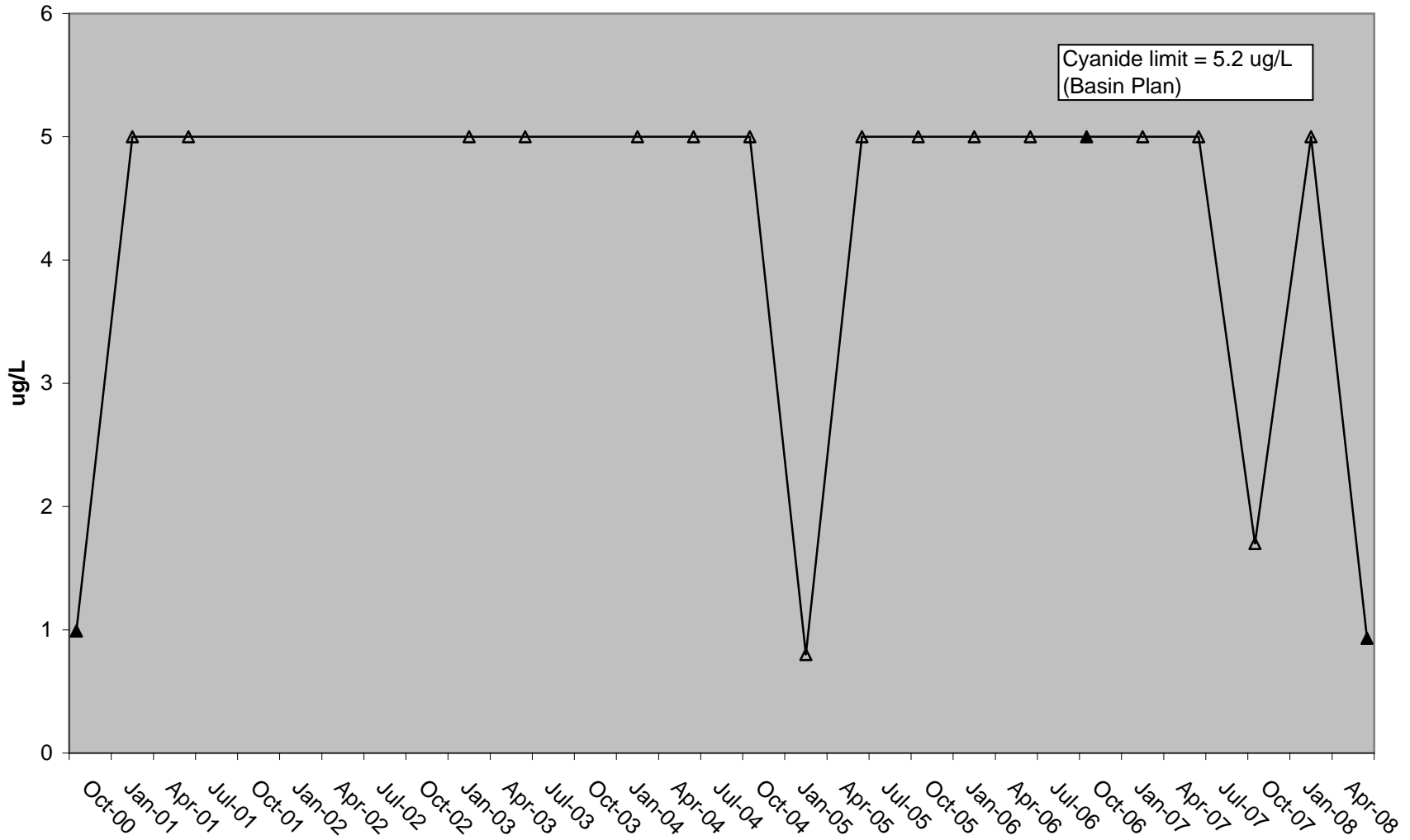
— Trendline    △ Below Detection    ▲ Result

Chloride limit = 250 mg/L  
(Basin Plan)



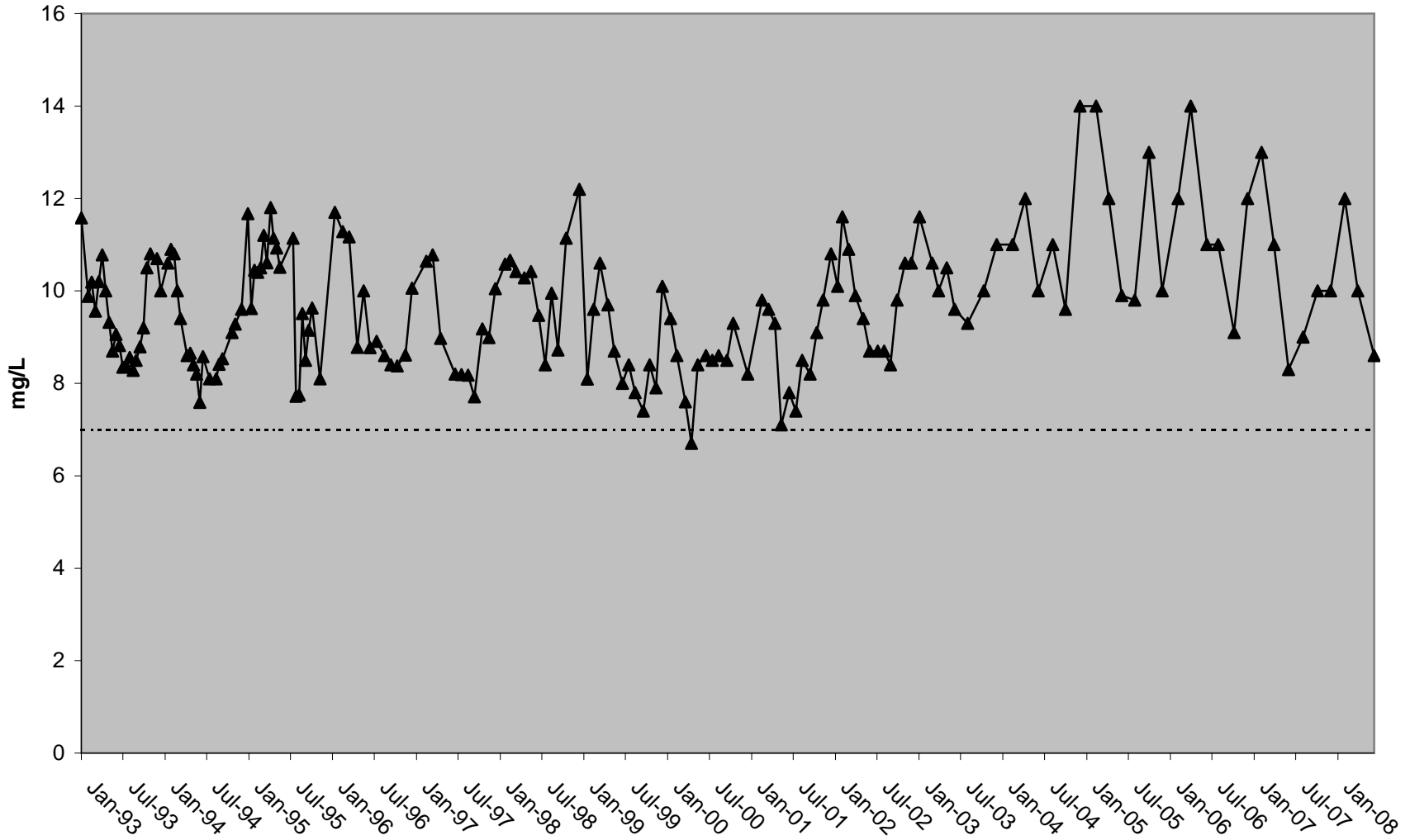
# River Mile 44 Cyanide

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



### River Mile 44 Dissolved Oxygen (DO)

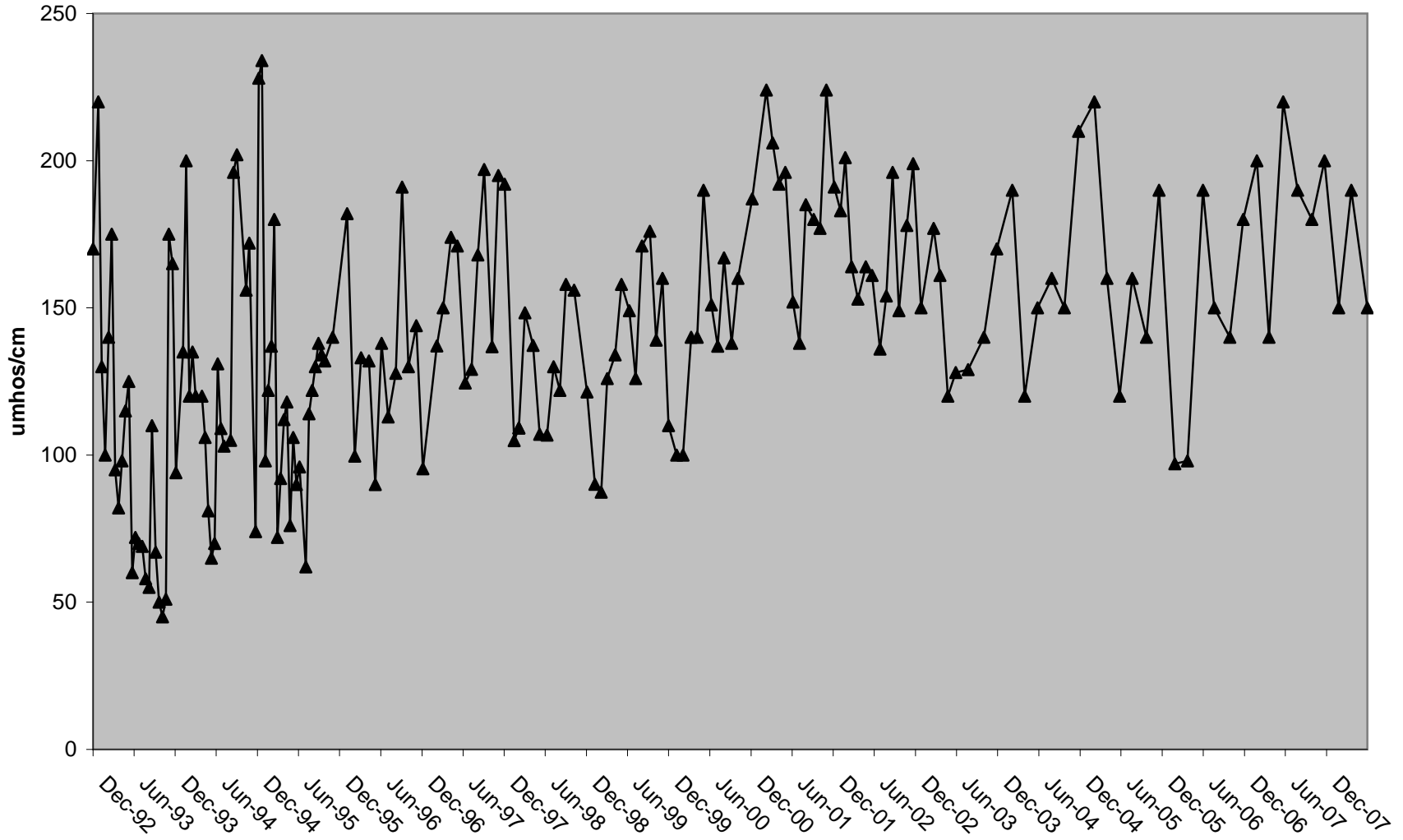
— Trendline    Δ Below Detection    ▲ Result    - - - - Limit





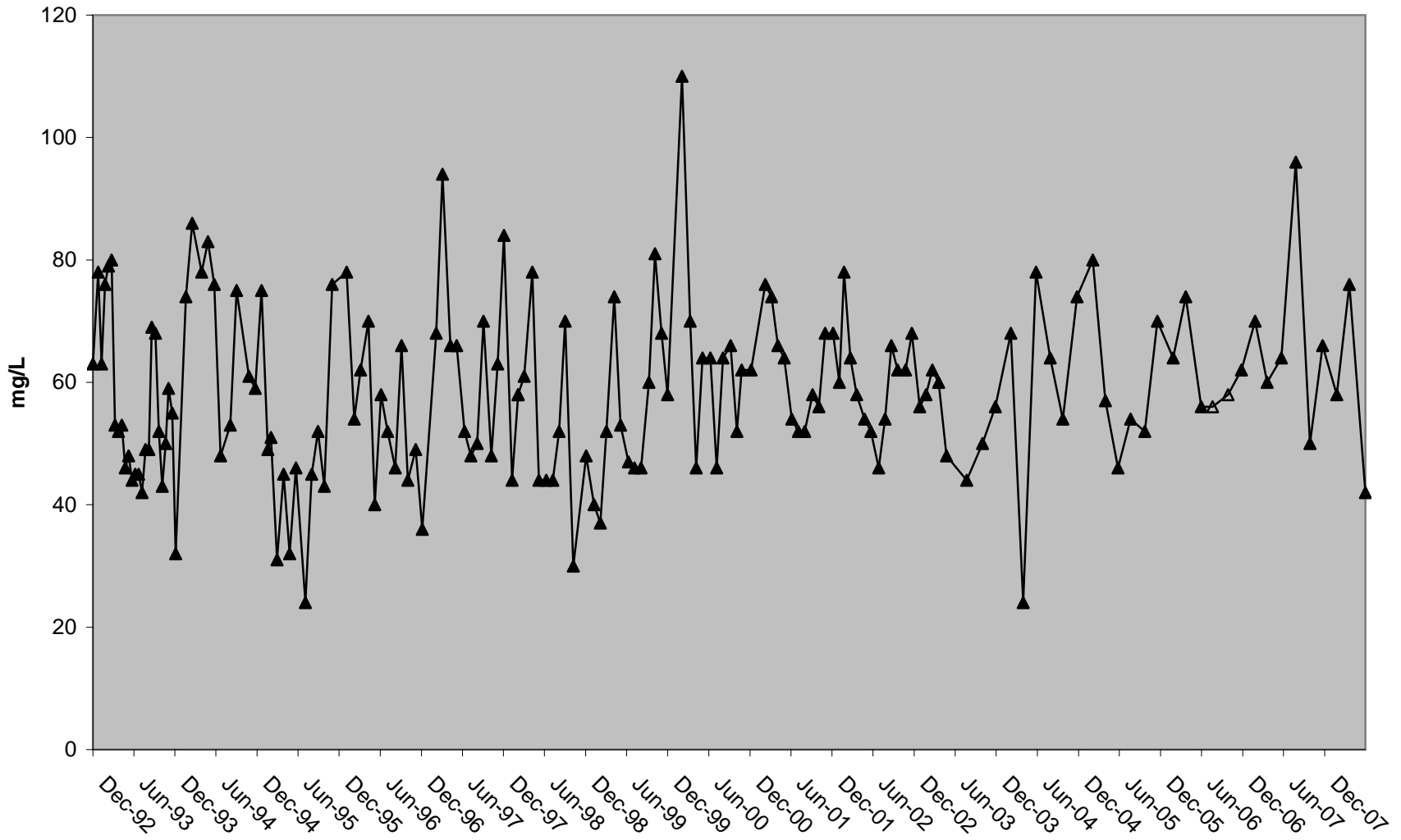
### River Mile 44 Electrical Conductivity (EC)

— Trendline    △ Below Detection    ▲ Result



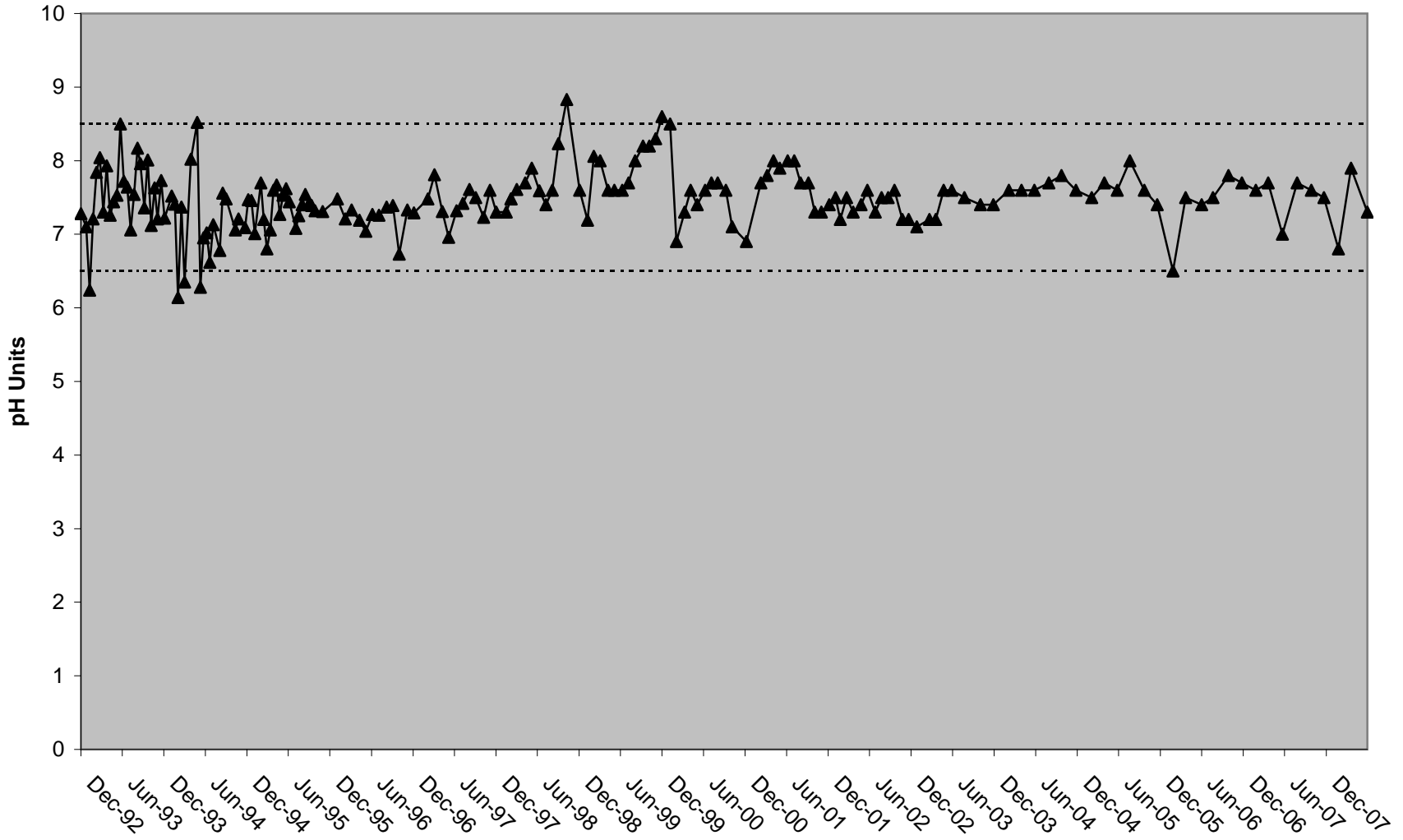
# River Mile 44 Hardness

— Trendline    △ Below Detection    ▲ Result



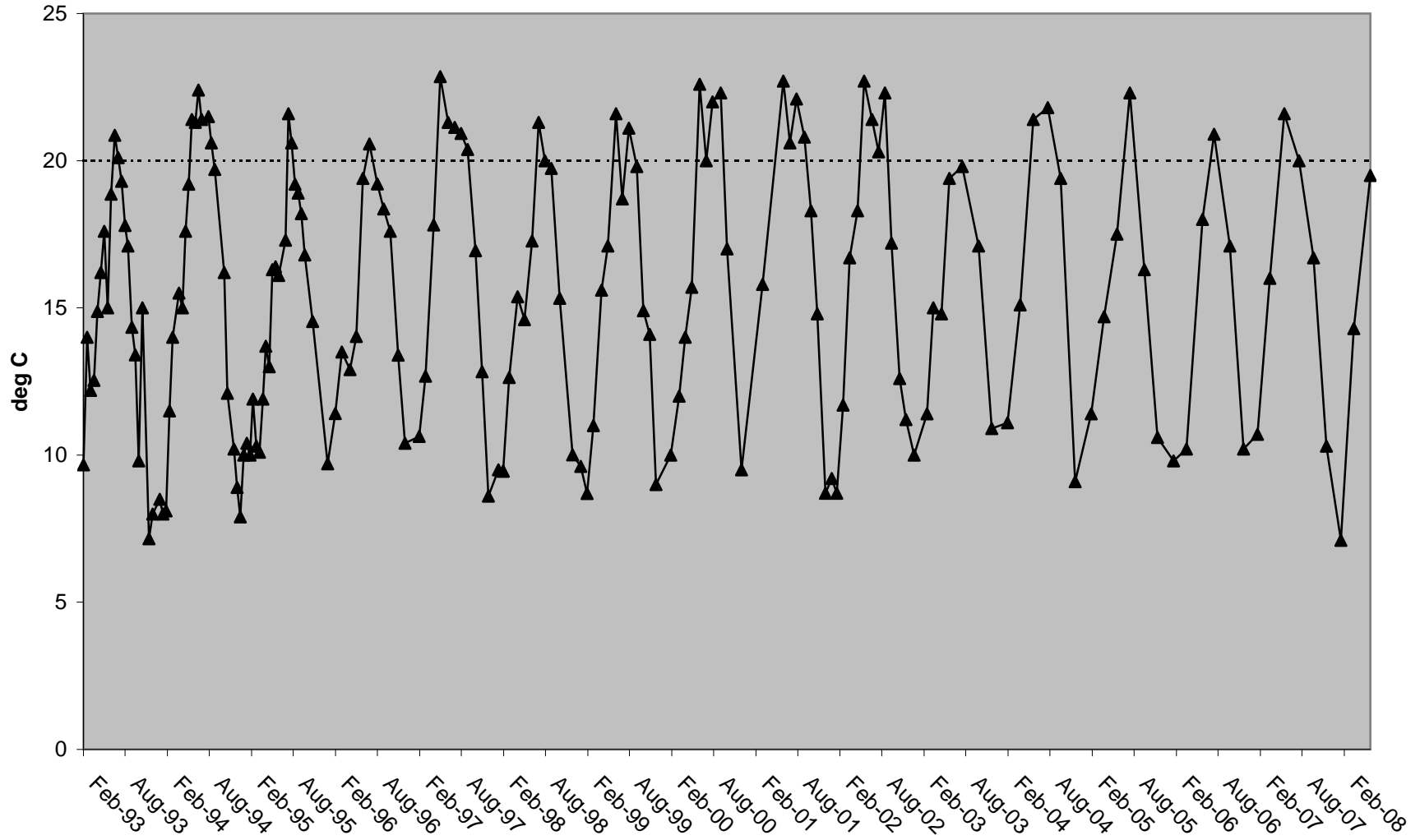
# River Mile 44 pH

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



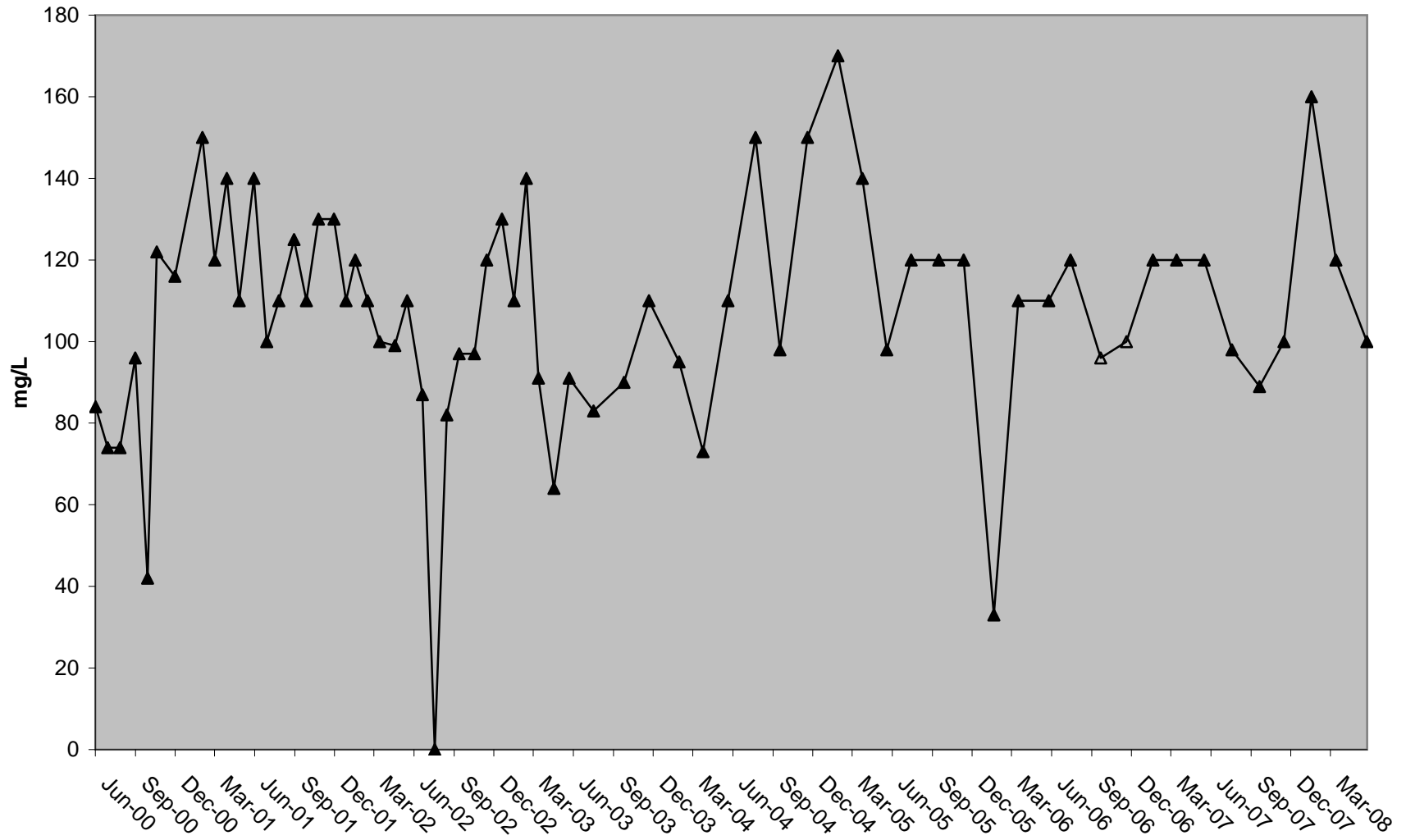
# River Mile 44 Water Temperature

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



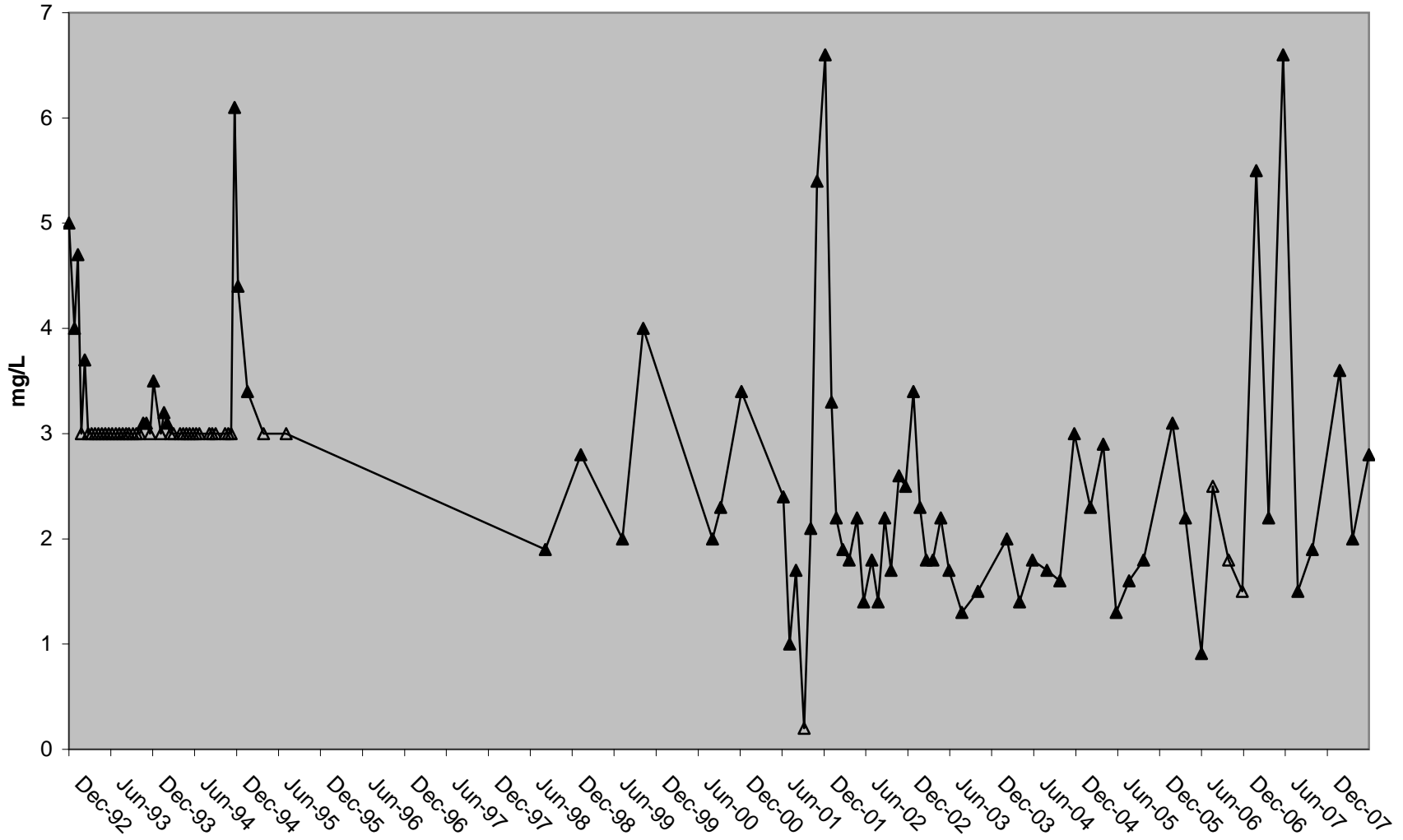
### River Mile 44 Total Dissolved Solids (TDS)

— Trendline    △ Below Detection    ▲ Result



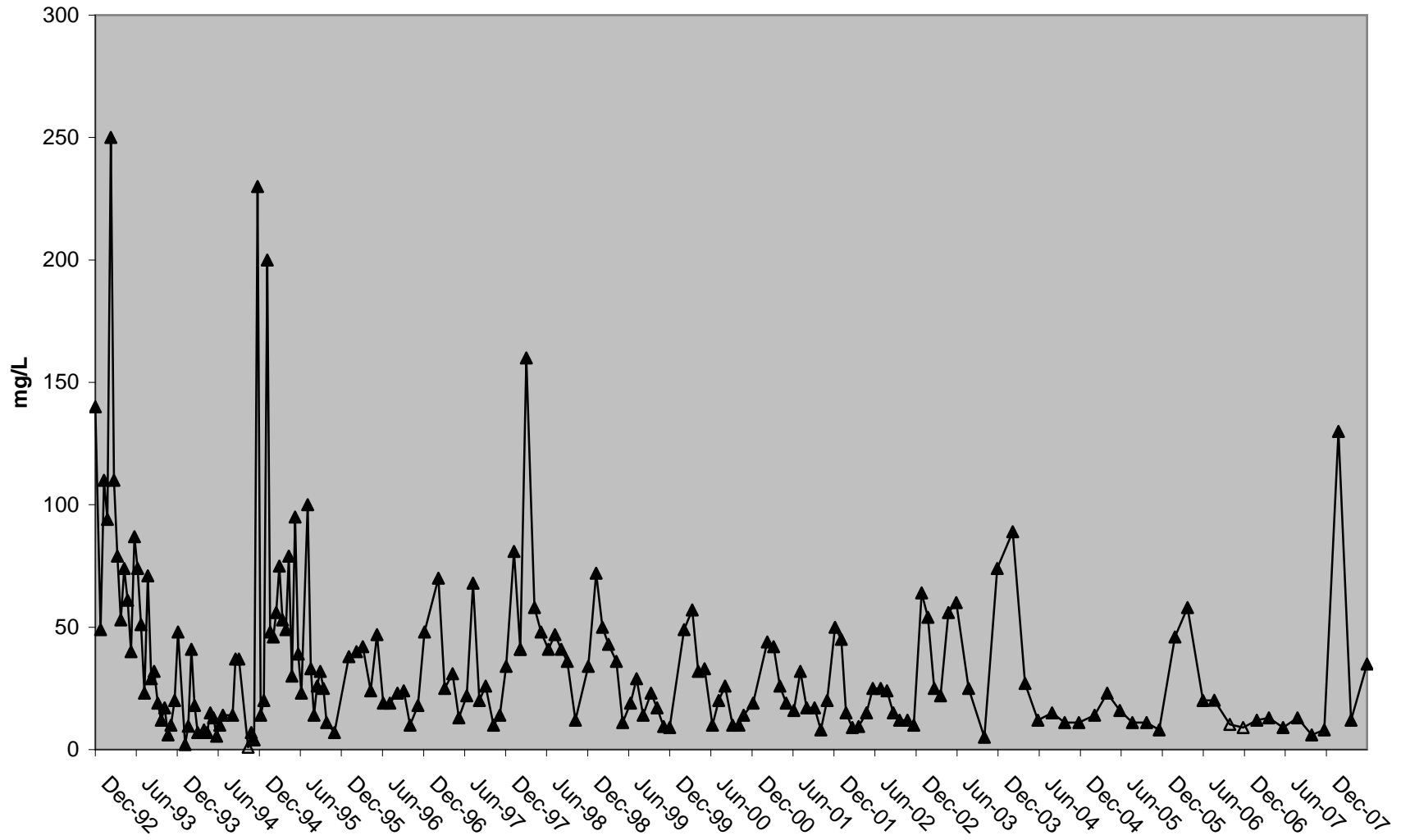
### River Mile 44 Total Organic Carbon (TOC)

— Trendline    △ Below Detection    ▲ Result



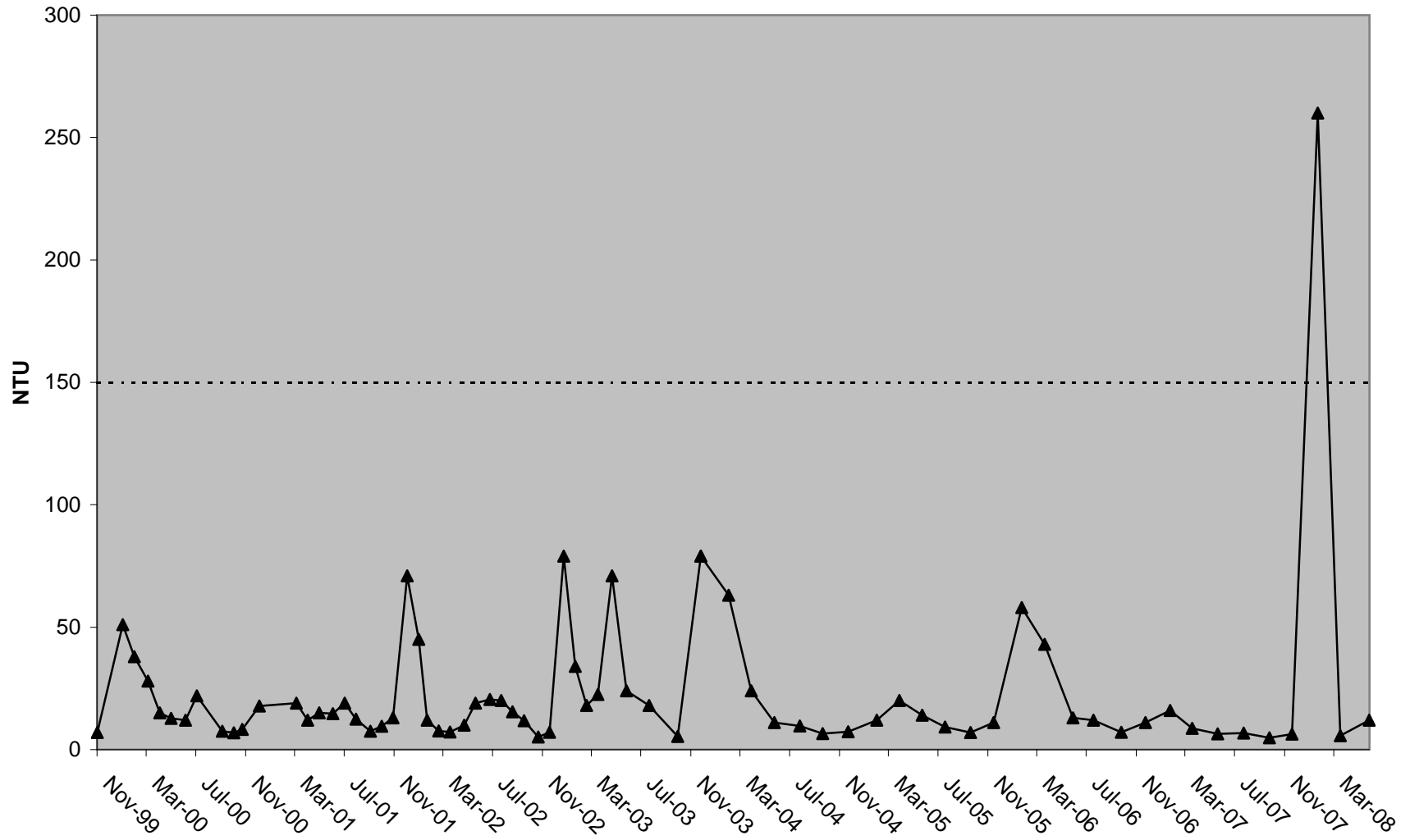
### River Mile 44 Total Suspended Solids (TSS)

— Trendline    △ Below Detection    ▲ Result



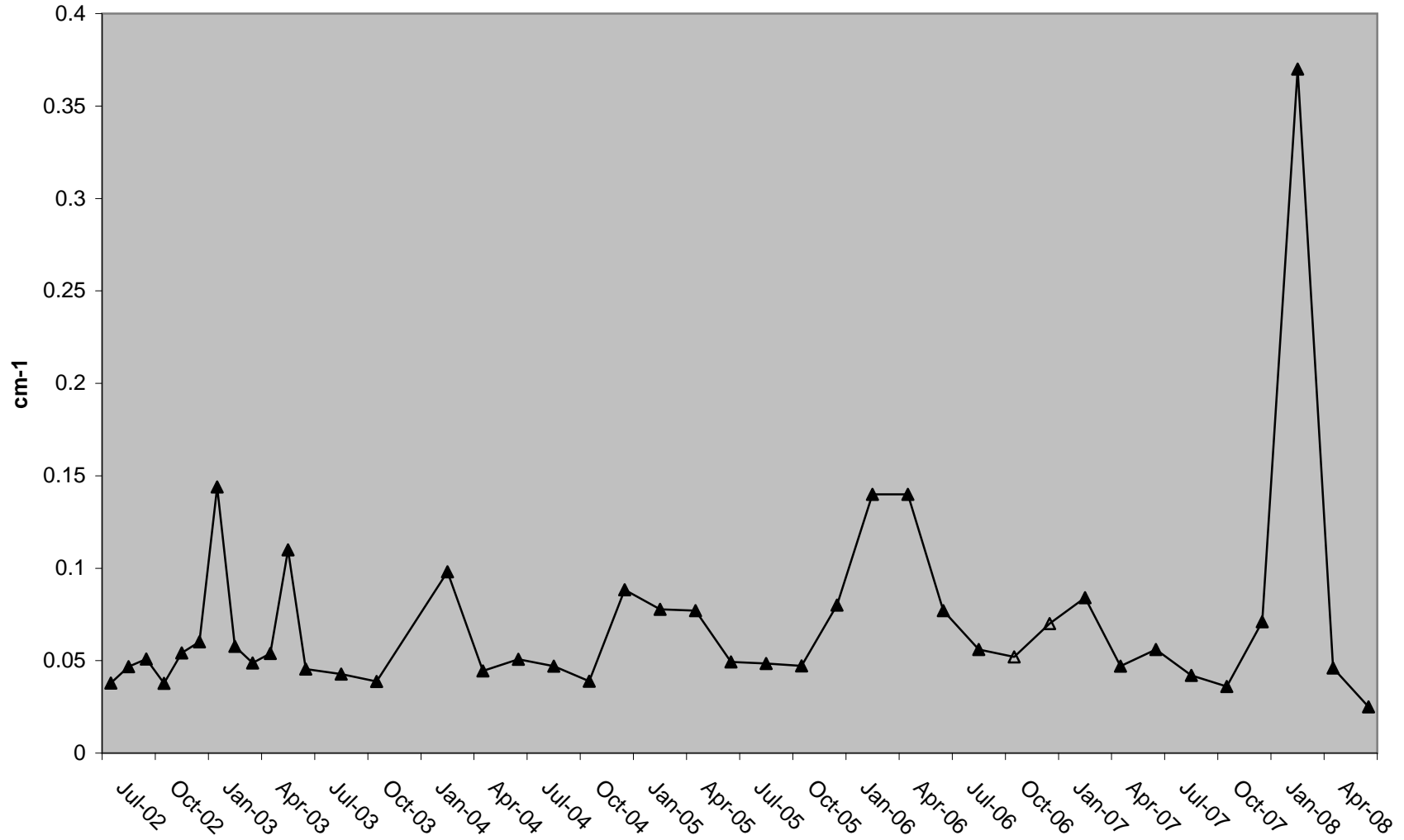
### River Mile 44 Turbidity

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



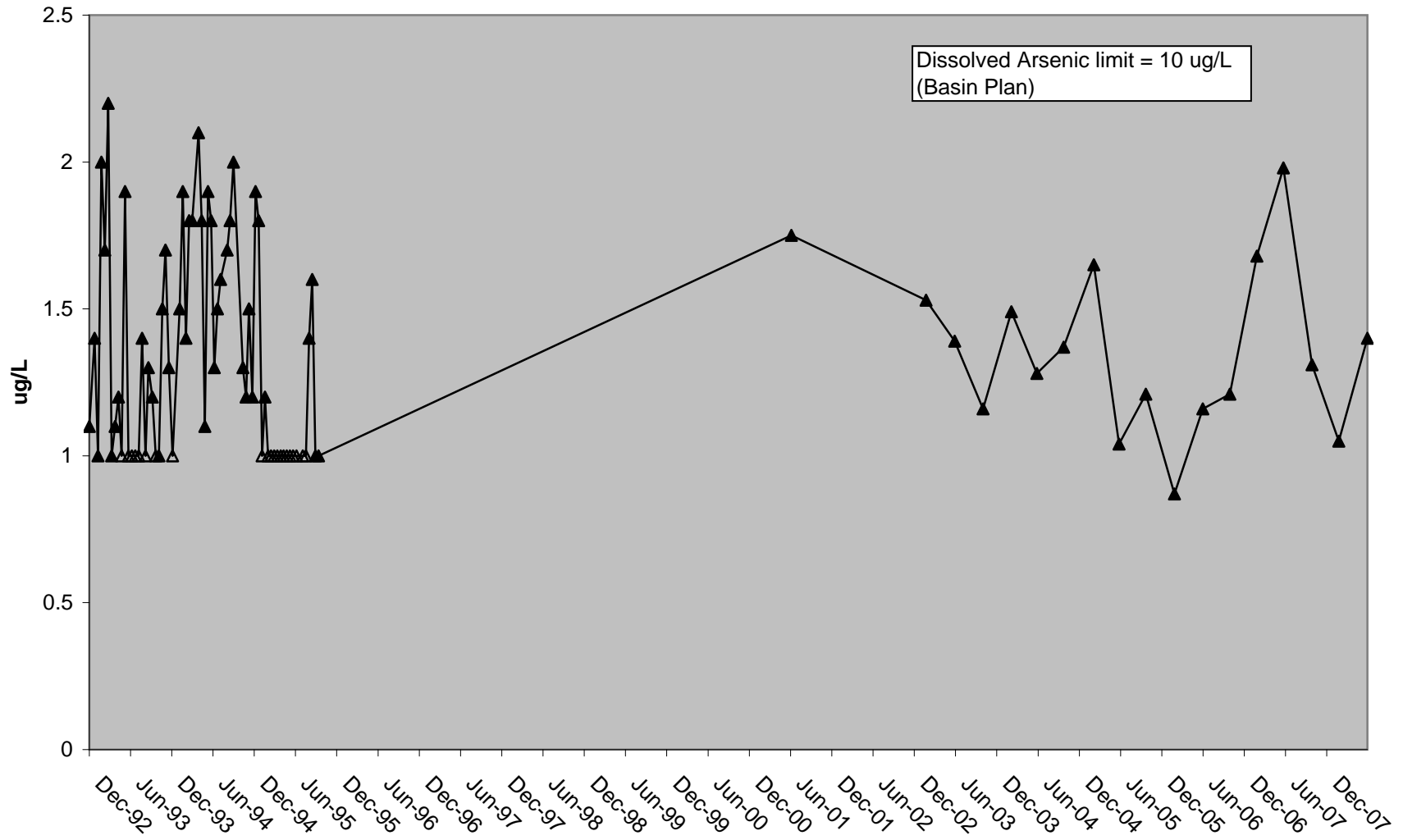
### River Mile 44 UVA 254

— Trendline    △ Below Detection    ▲ Result



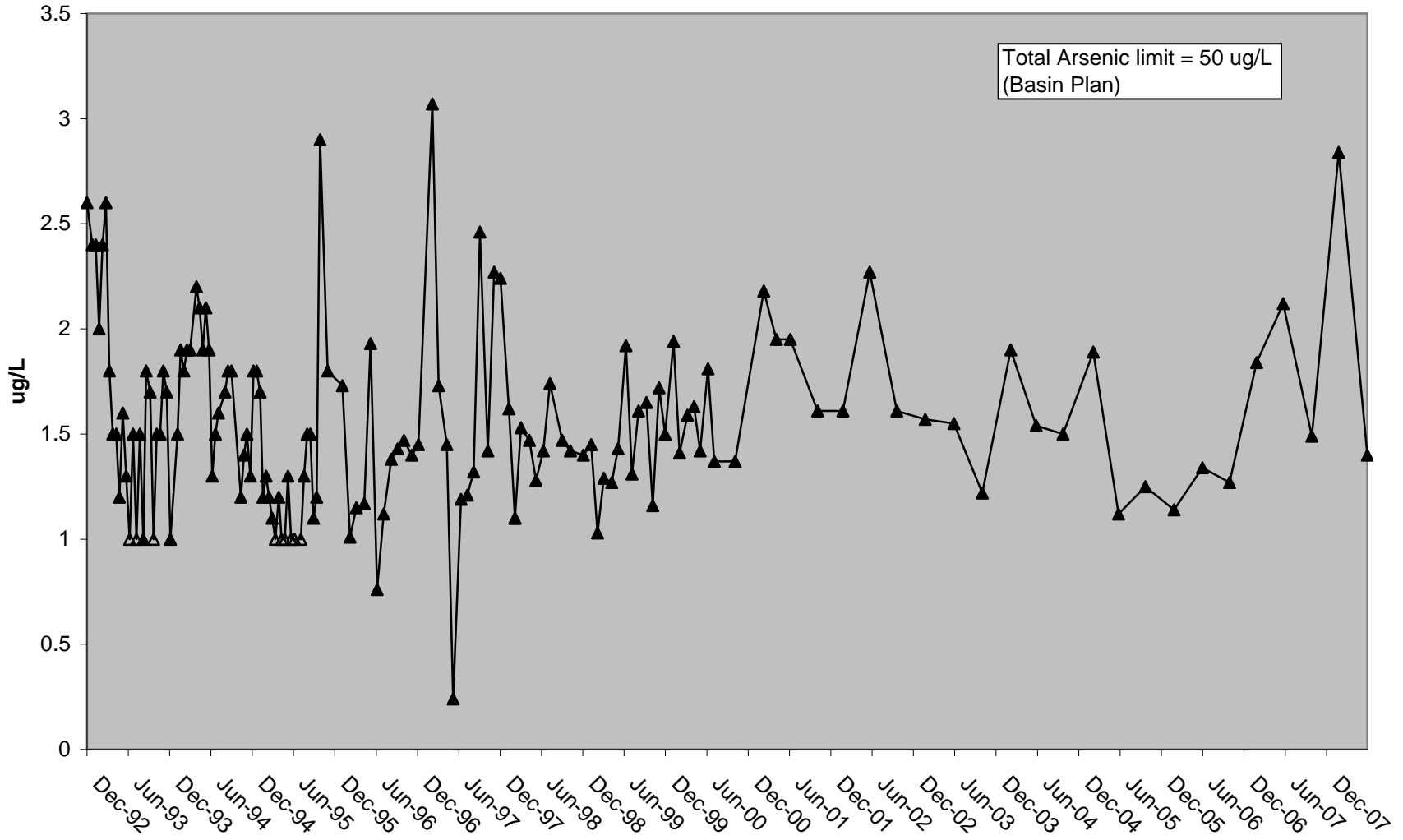
### River Mile 44 Dissolved Arsenic (As-d)

— Trendline    △ Below Detection    ▲ Result

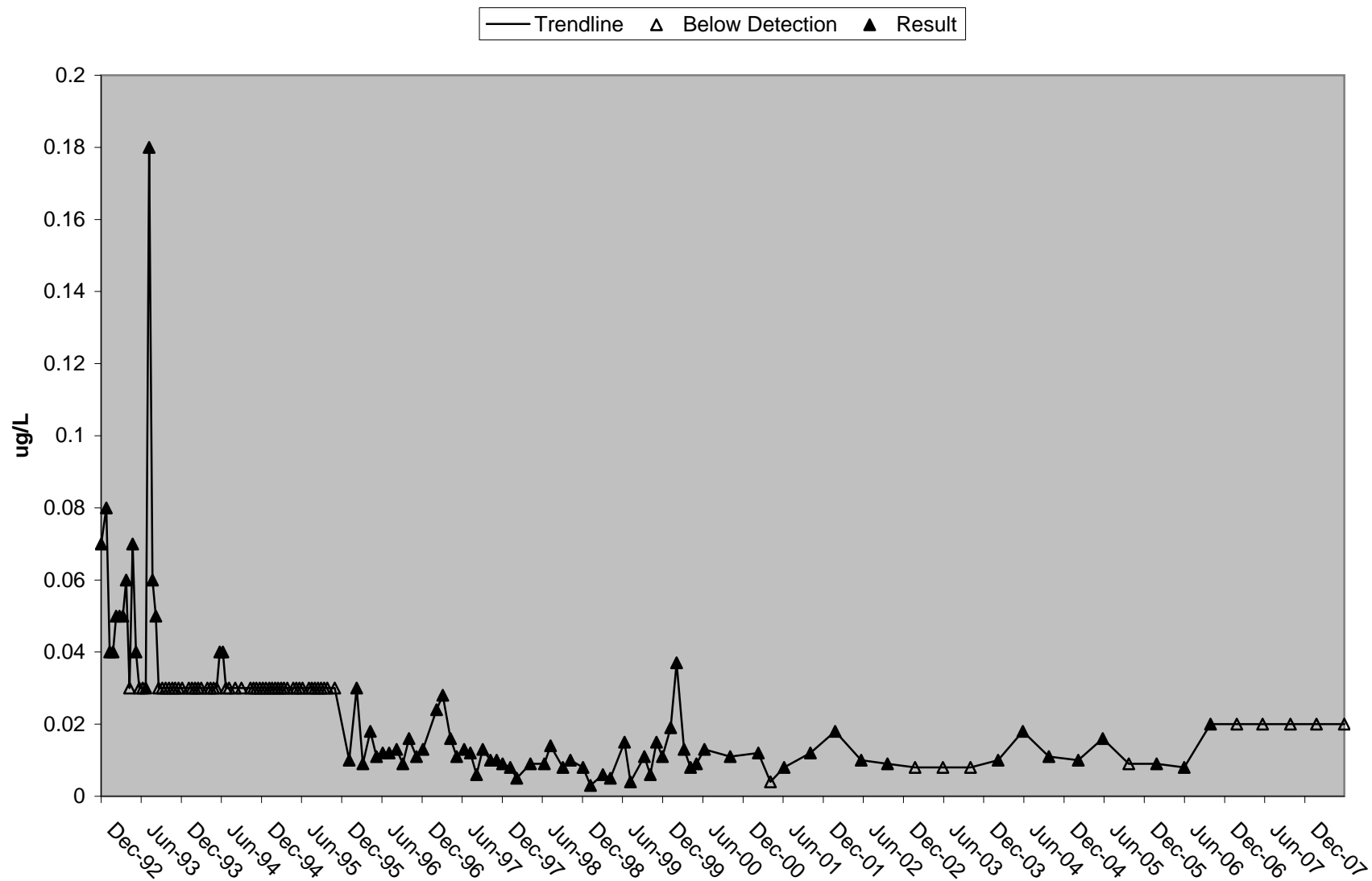


### River Mile 44 Total Arsenic (As-T)

— Trendline    △ Below Detection    ▲ Result

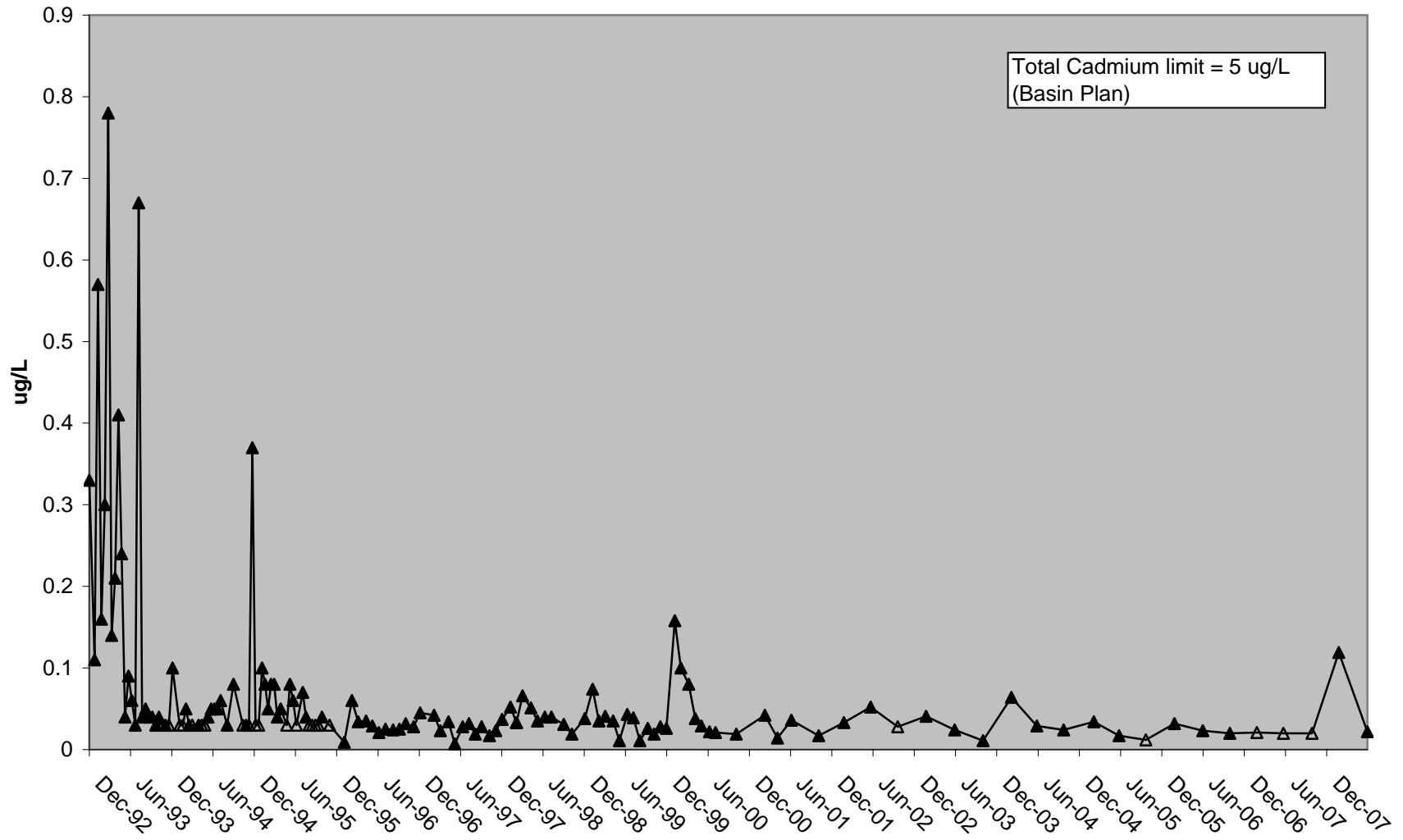


### River Mile 44 Dissolved Cadmium (Cd-d)



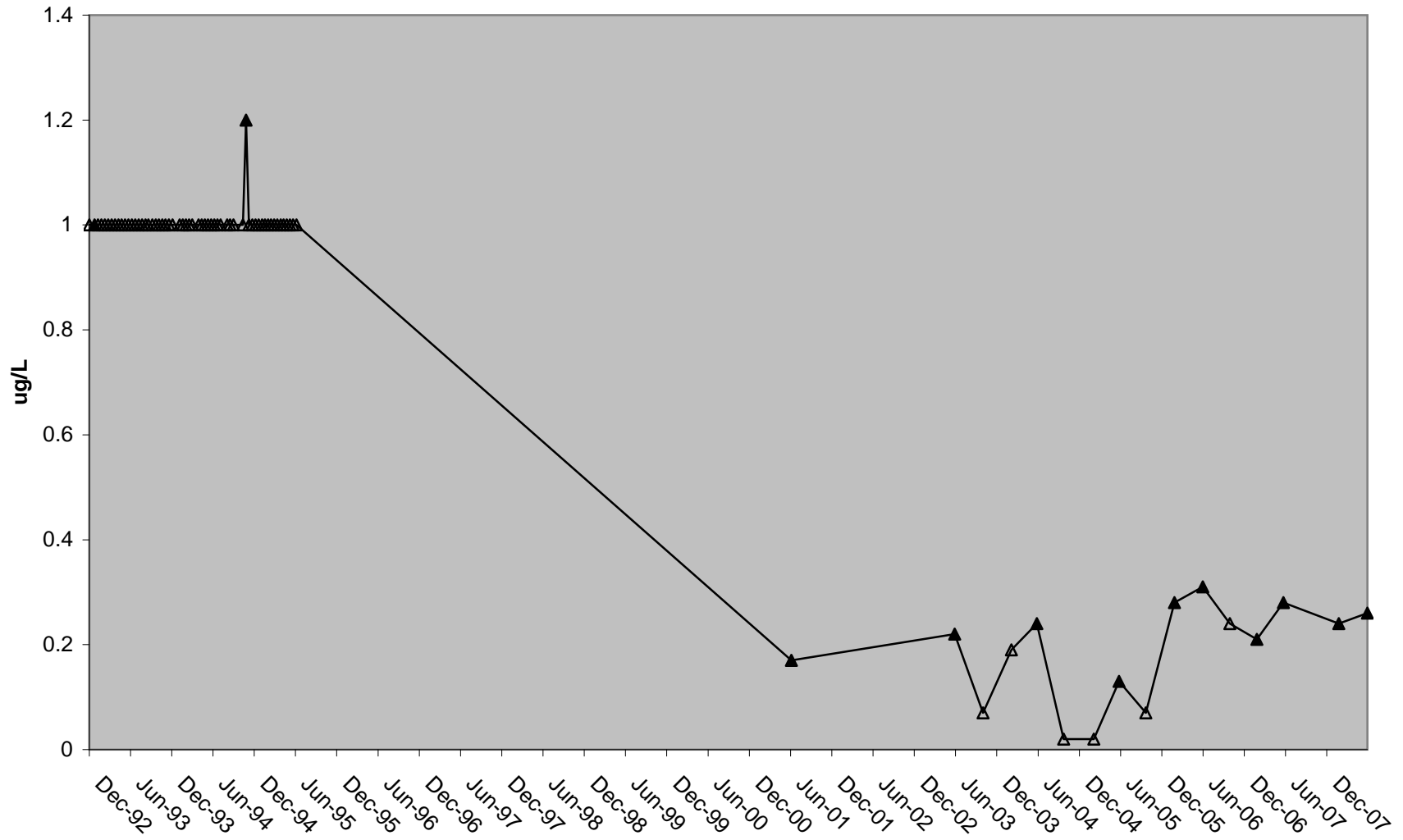
### River Mile 44 Total Cadmium (Cd-T)

— Trendline    △ Below Detection    ▲ Result



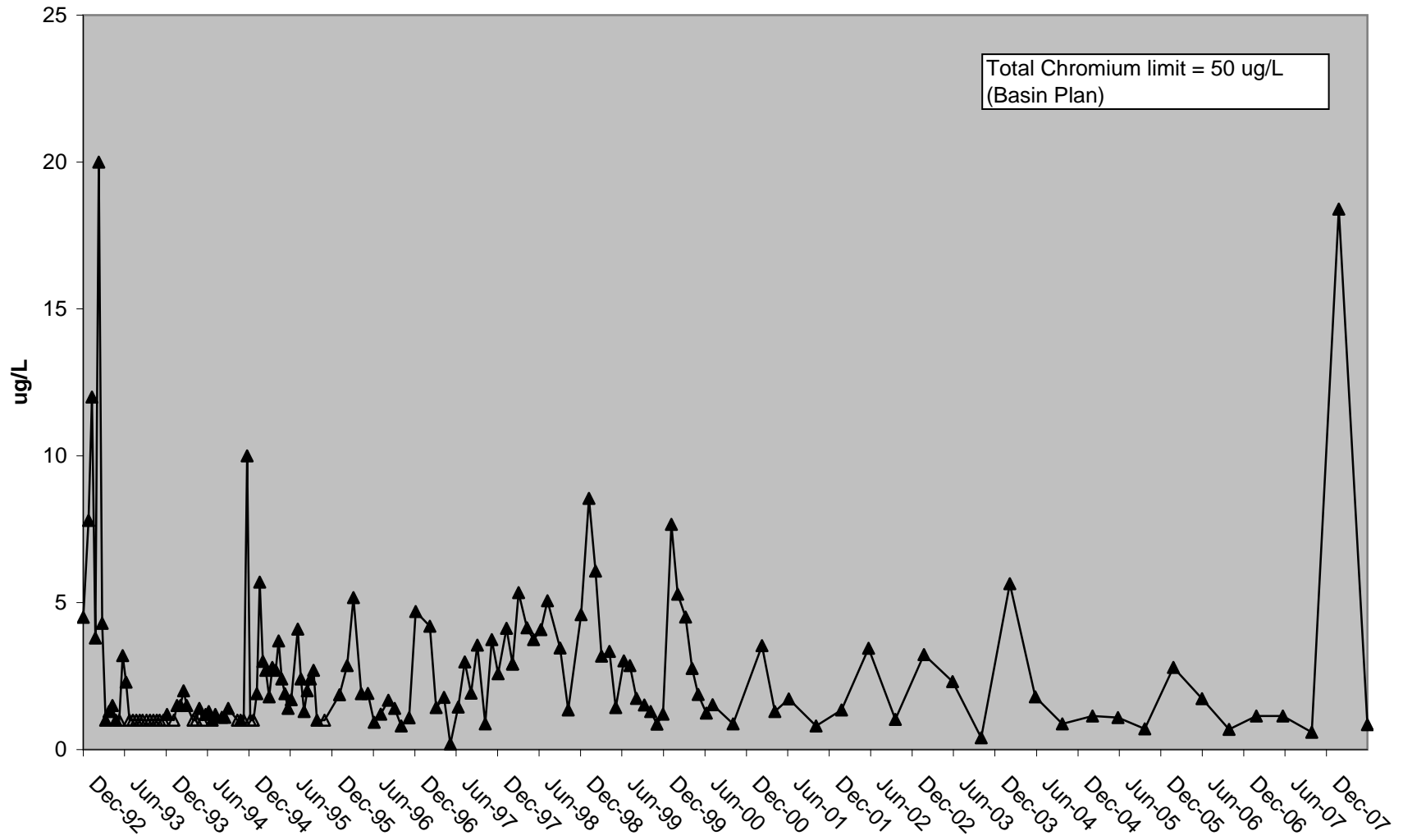
### River Mile 44 Dissolved Chromium (Cr-d)

— Trendline    △ Below Detection    ▲ Result



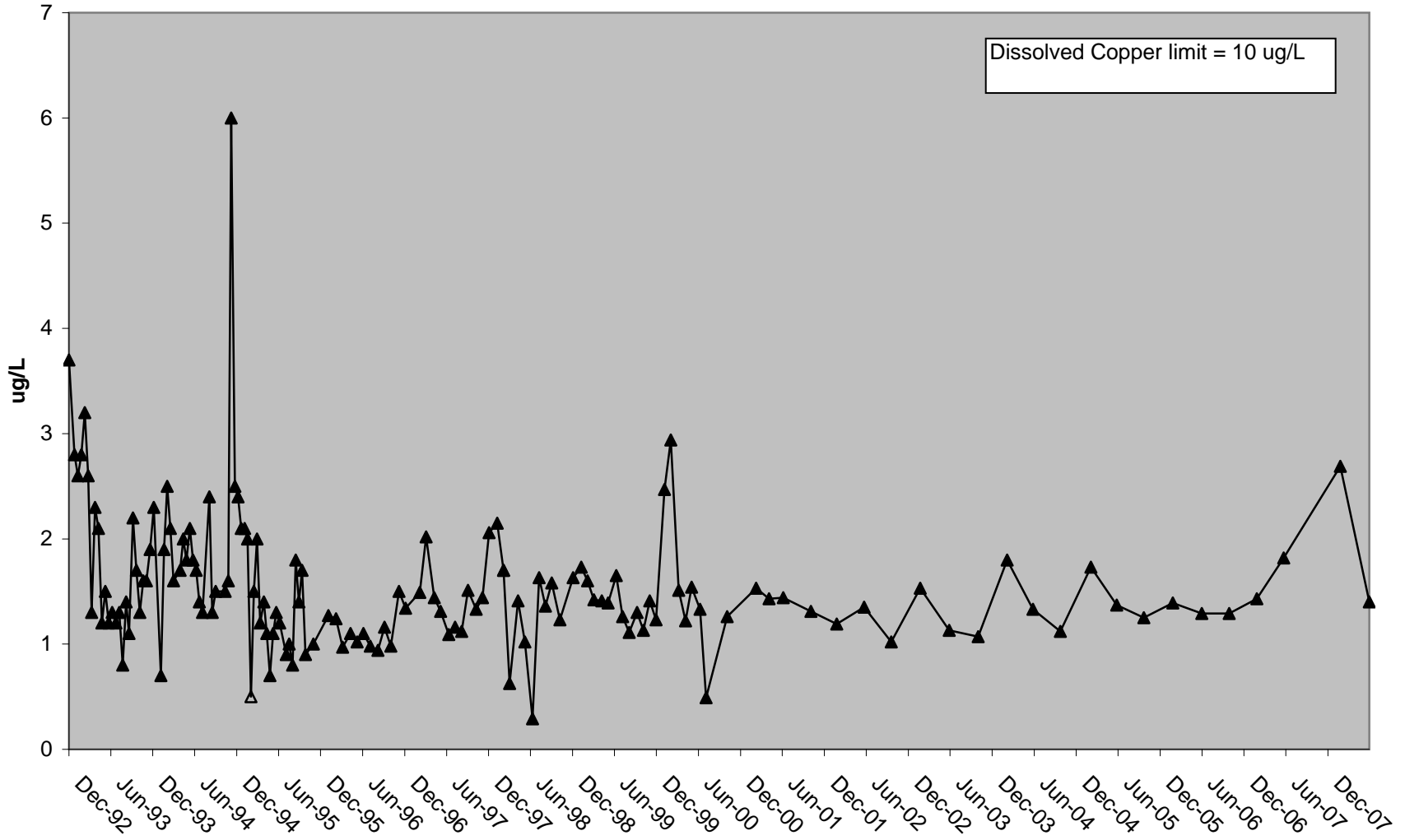
### River Mile 44 Total Chromium (Cr-T)

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



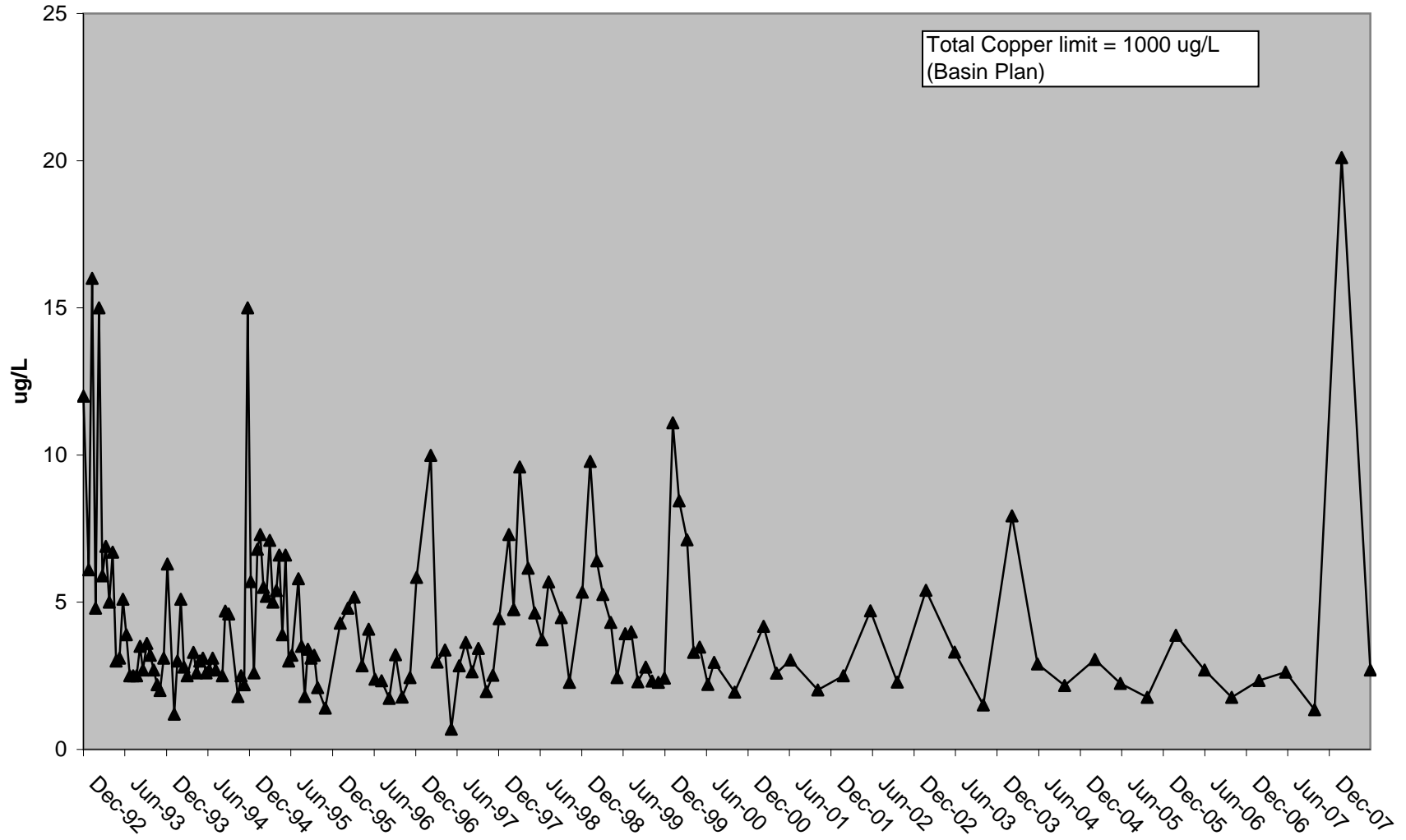
### River Mile 44 Dissolved Copper (Cu-d)

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



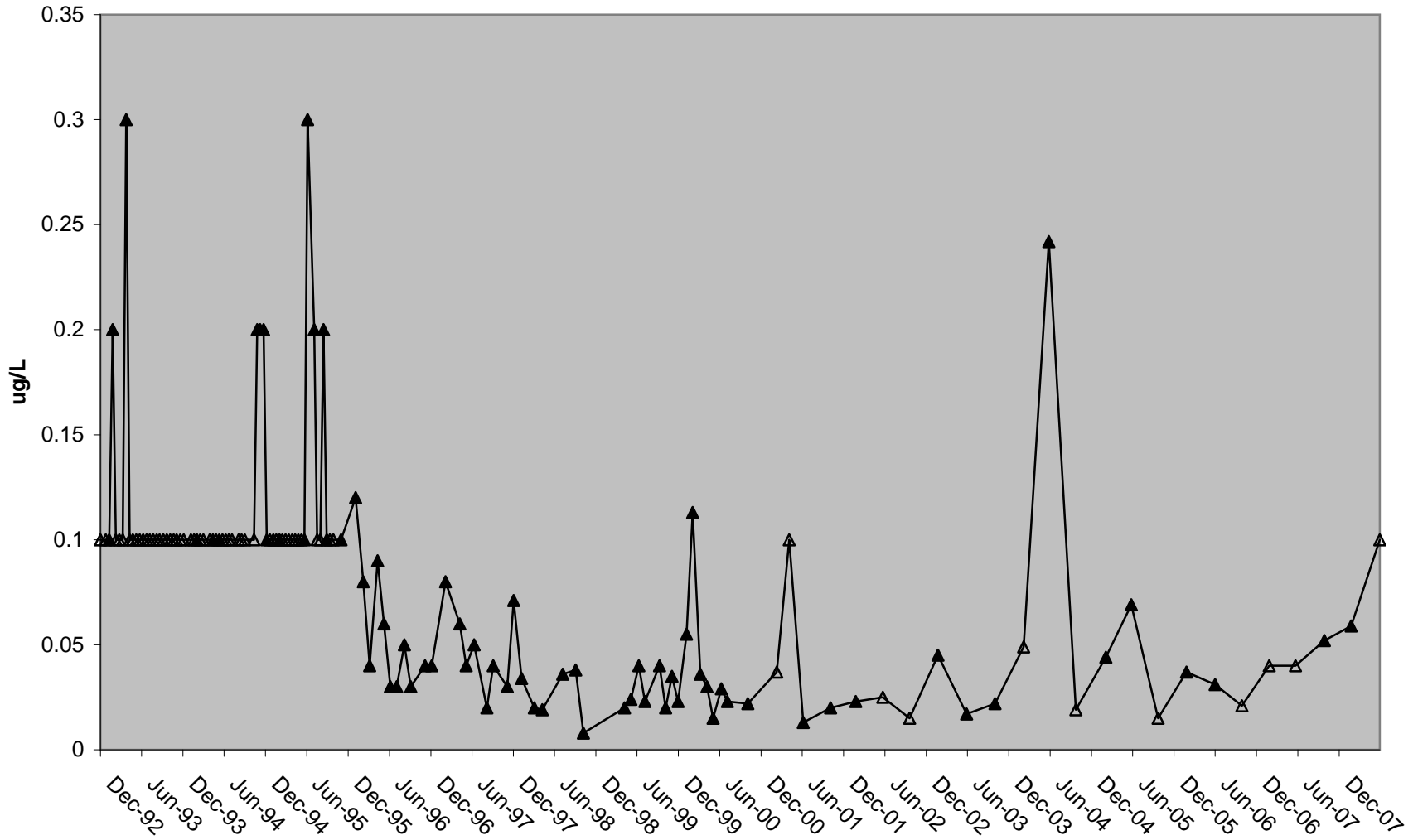
### River Mile 44 Total Copper (Cu-T)

— Trendline    Δ Below Detection    ▲ Result



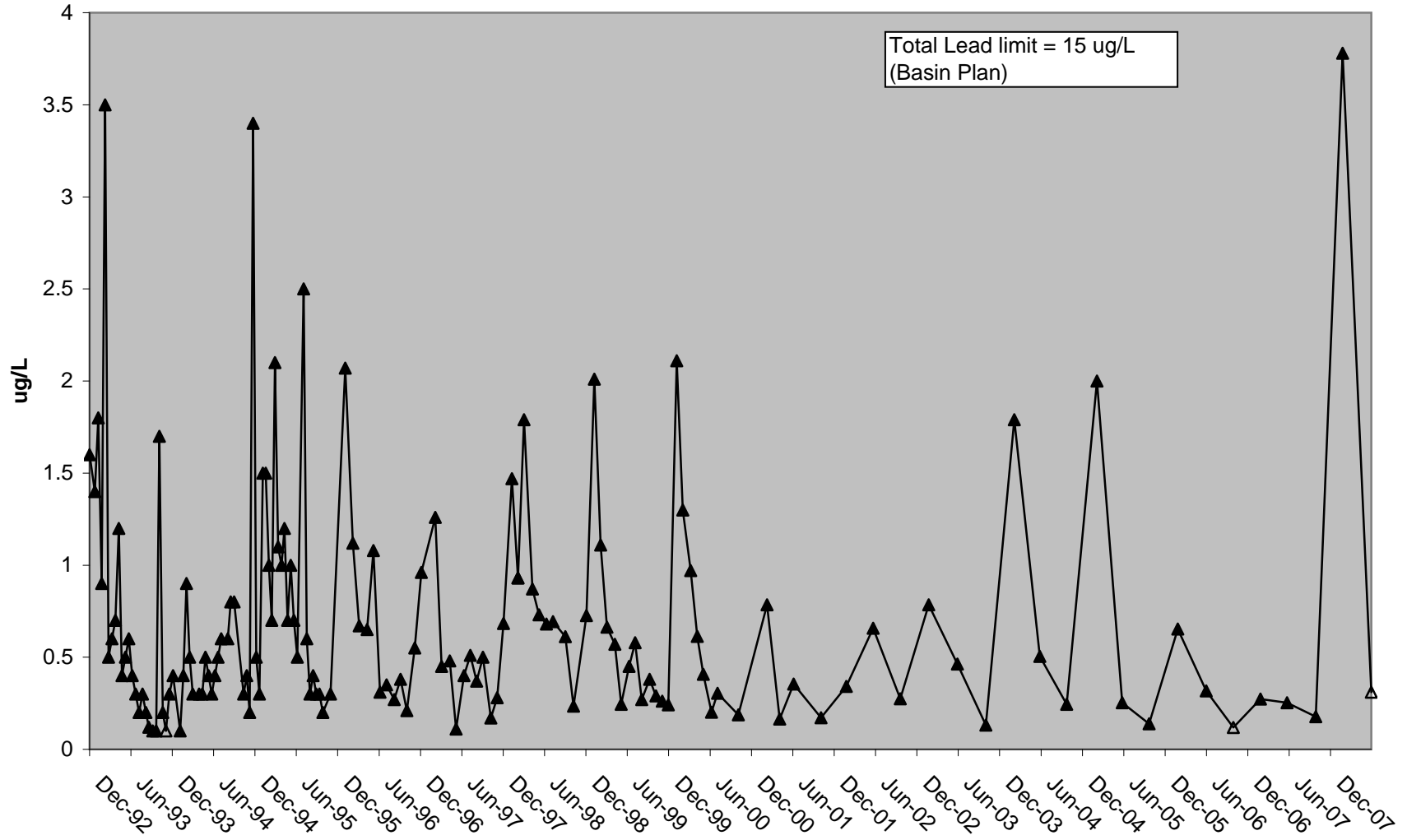
### River Mile 44 Dissolved Lead (Pb-d)

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



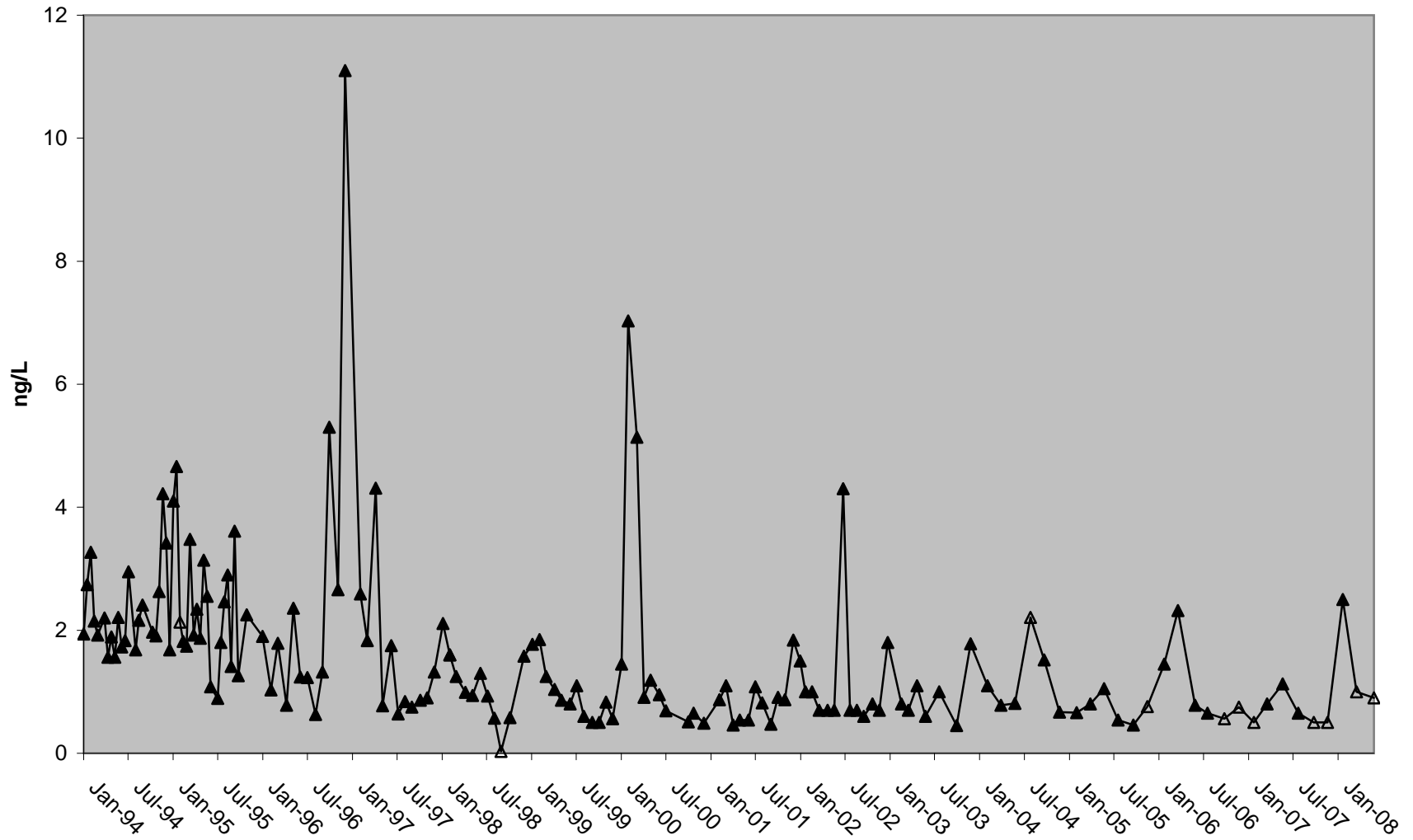
### River Mile 44 Total Lead (Pb-T)

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



### River Mile 44 Filtered Mercury

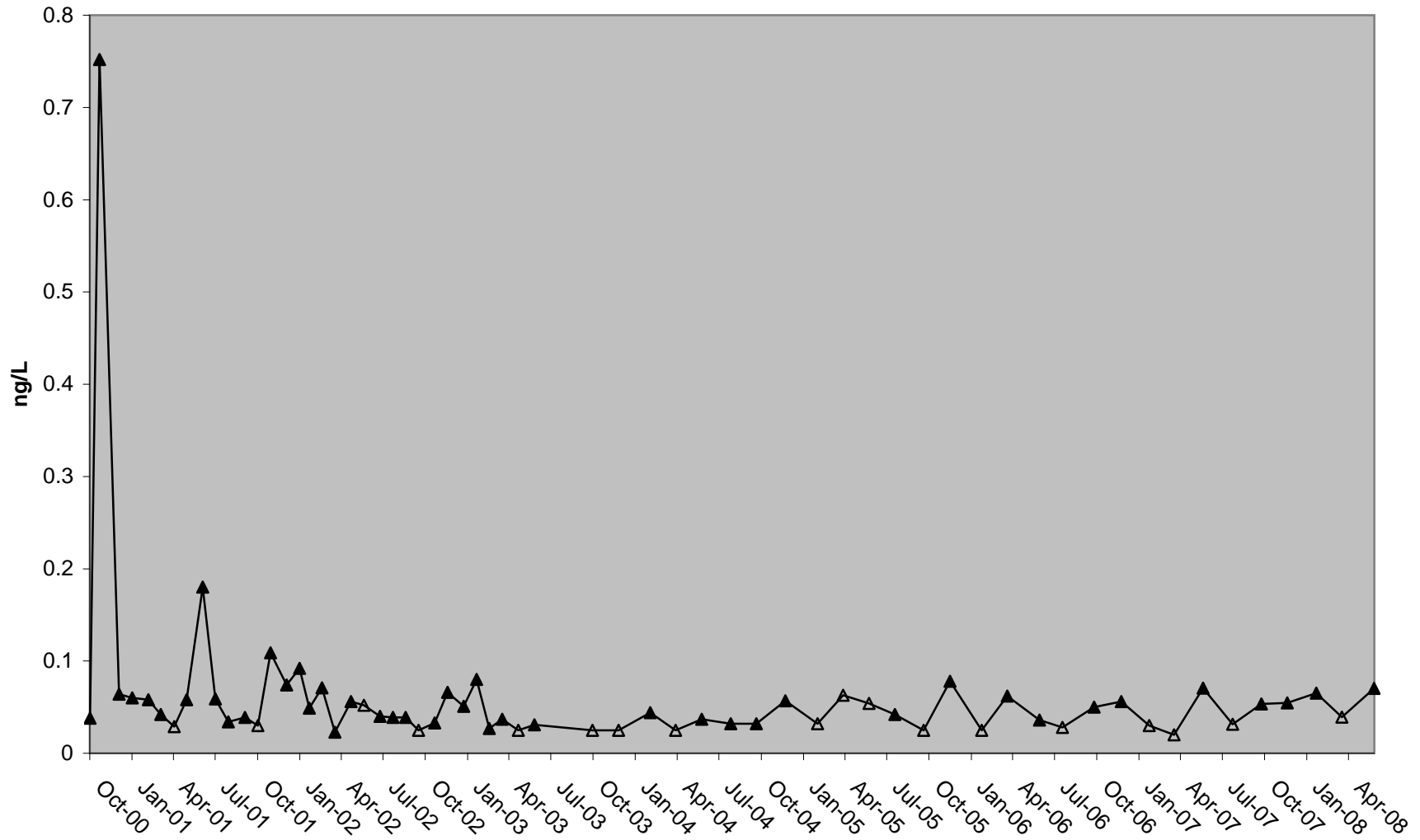
— Trendline    △ Below Detection    ▲ Result





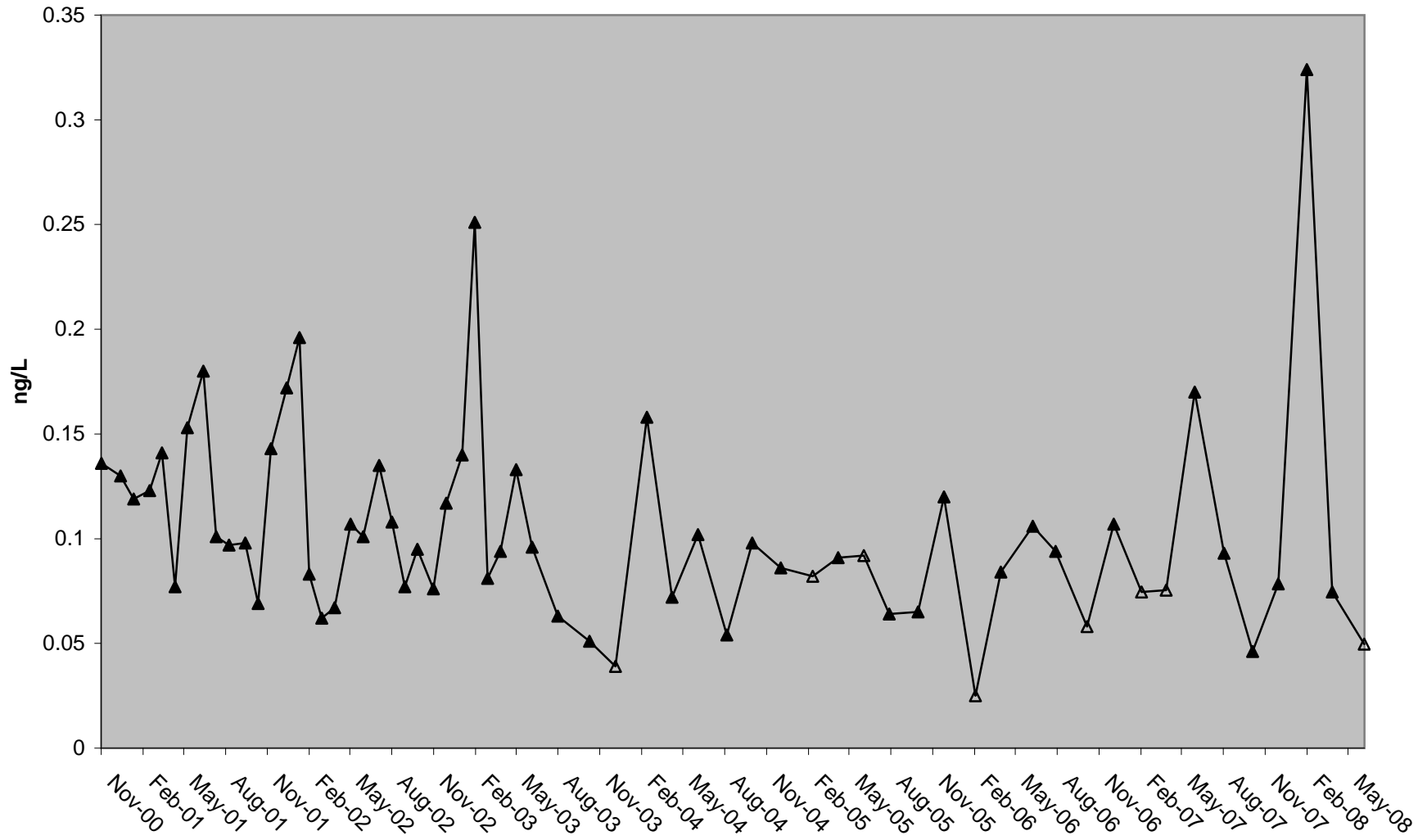
### River Mile 44 Filtered Methyl Mercury

— Trendline    △ Below Detection    ▲ Result



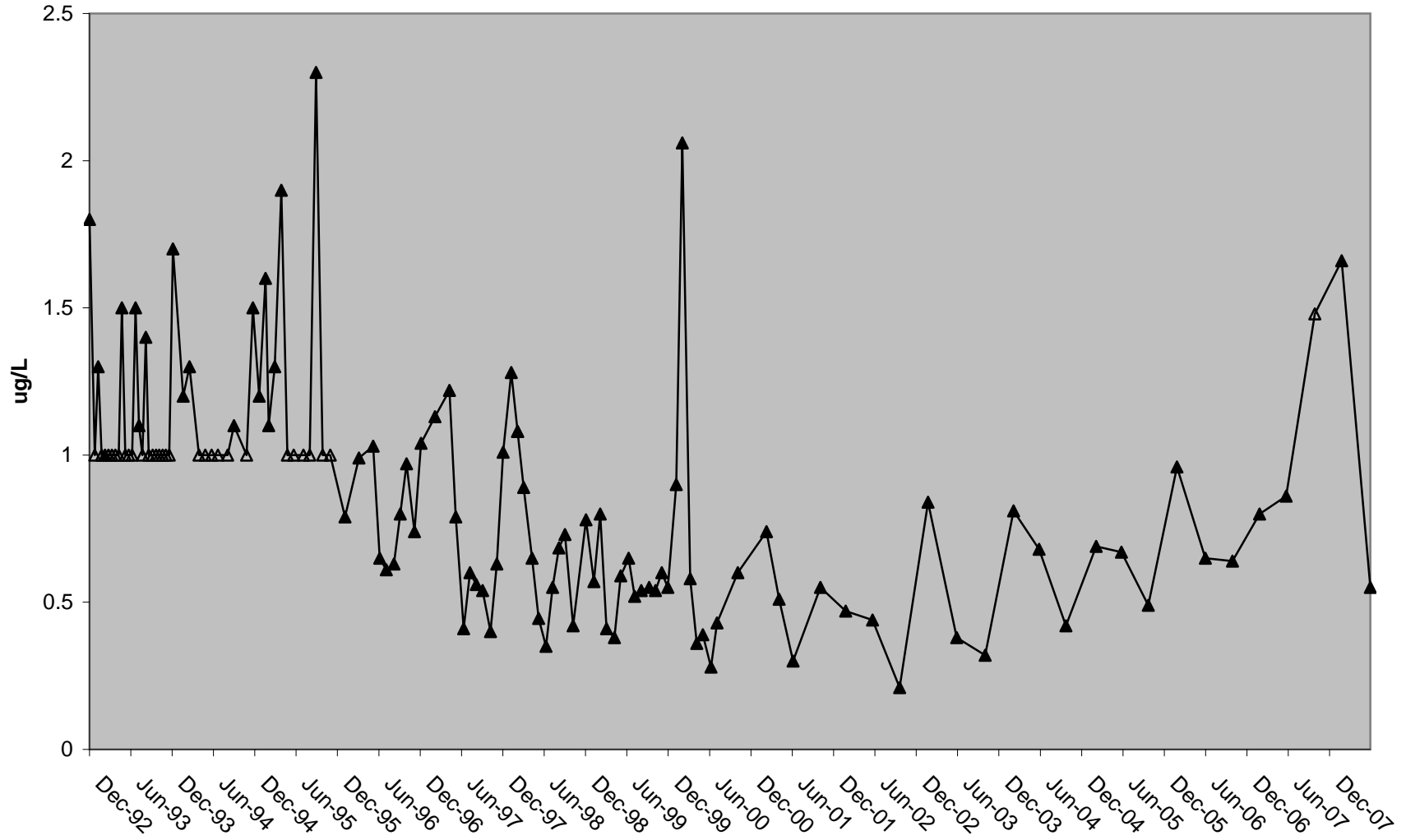
### River Mile 44 Unfiltered Methyl Mercury

— Trendline    △ Below Detection    ▲ Result



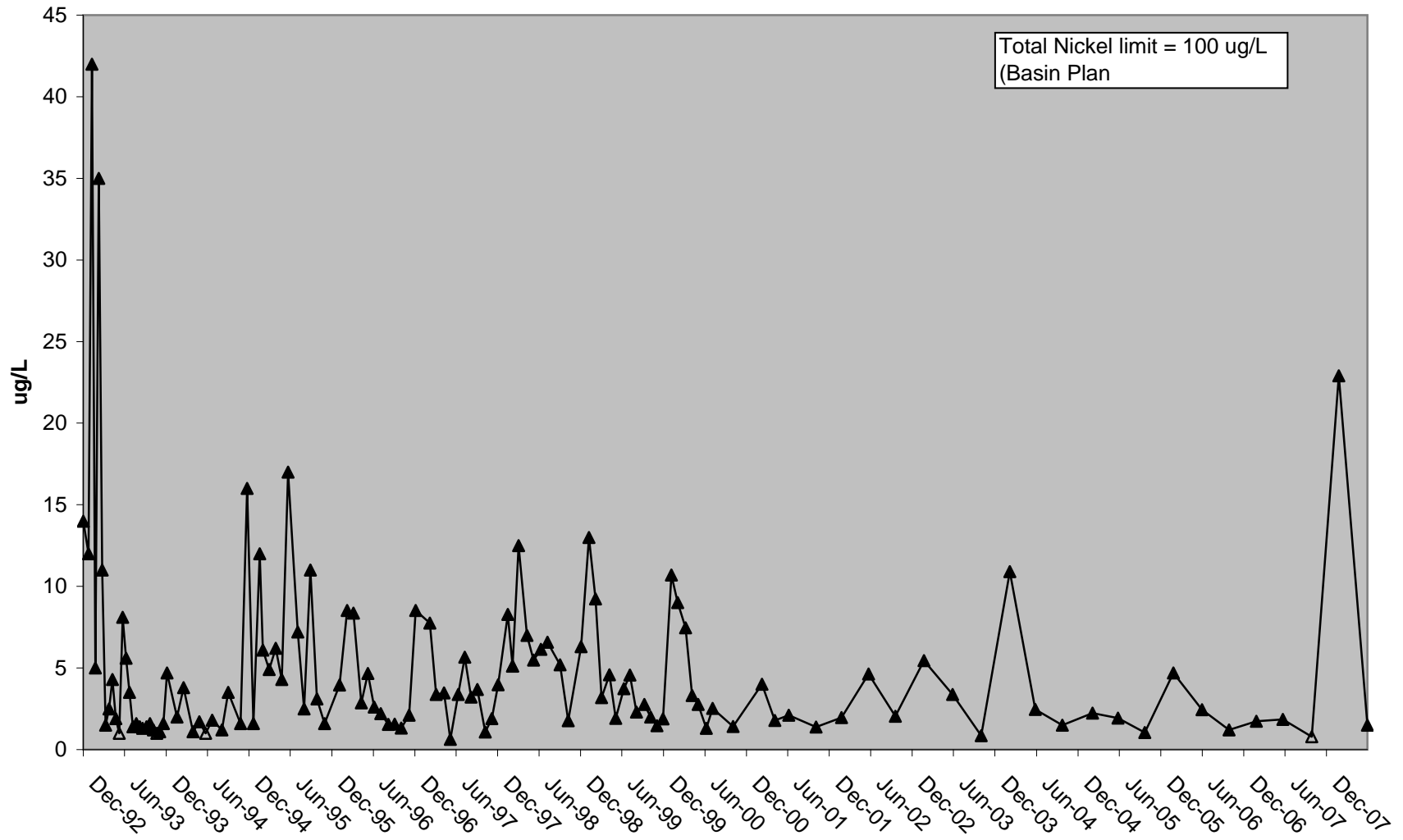
### River Mile 44 Dissolved Nickel (Ni-d)

— Trendline    △ Below Detection    ▲ Result



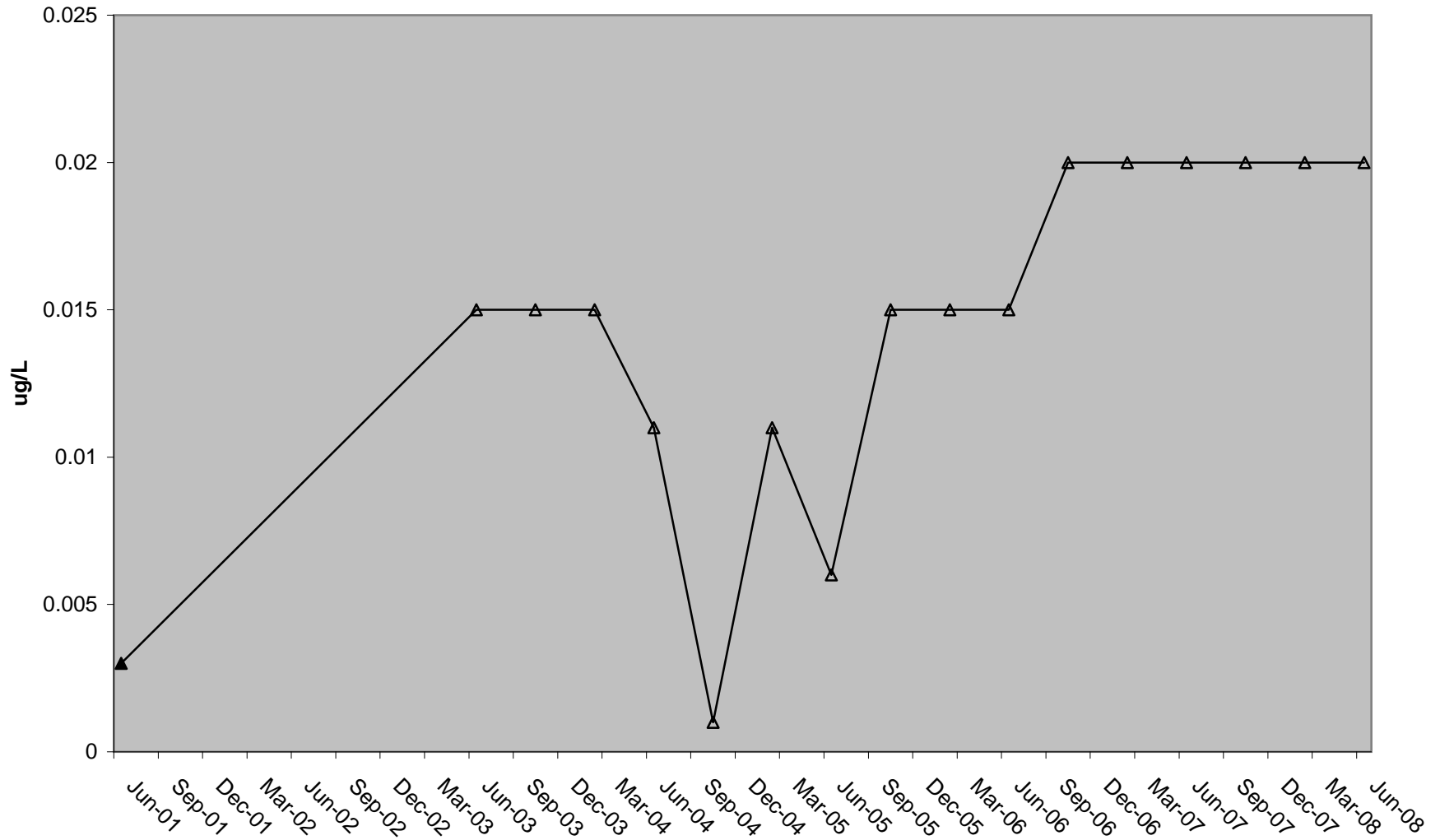
### River Mile 44 Total Nickel (Ni-T)

— Trendline    △ Below Detection    ▲ Result



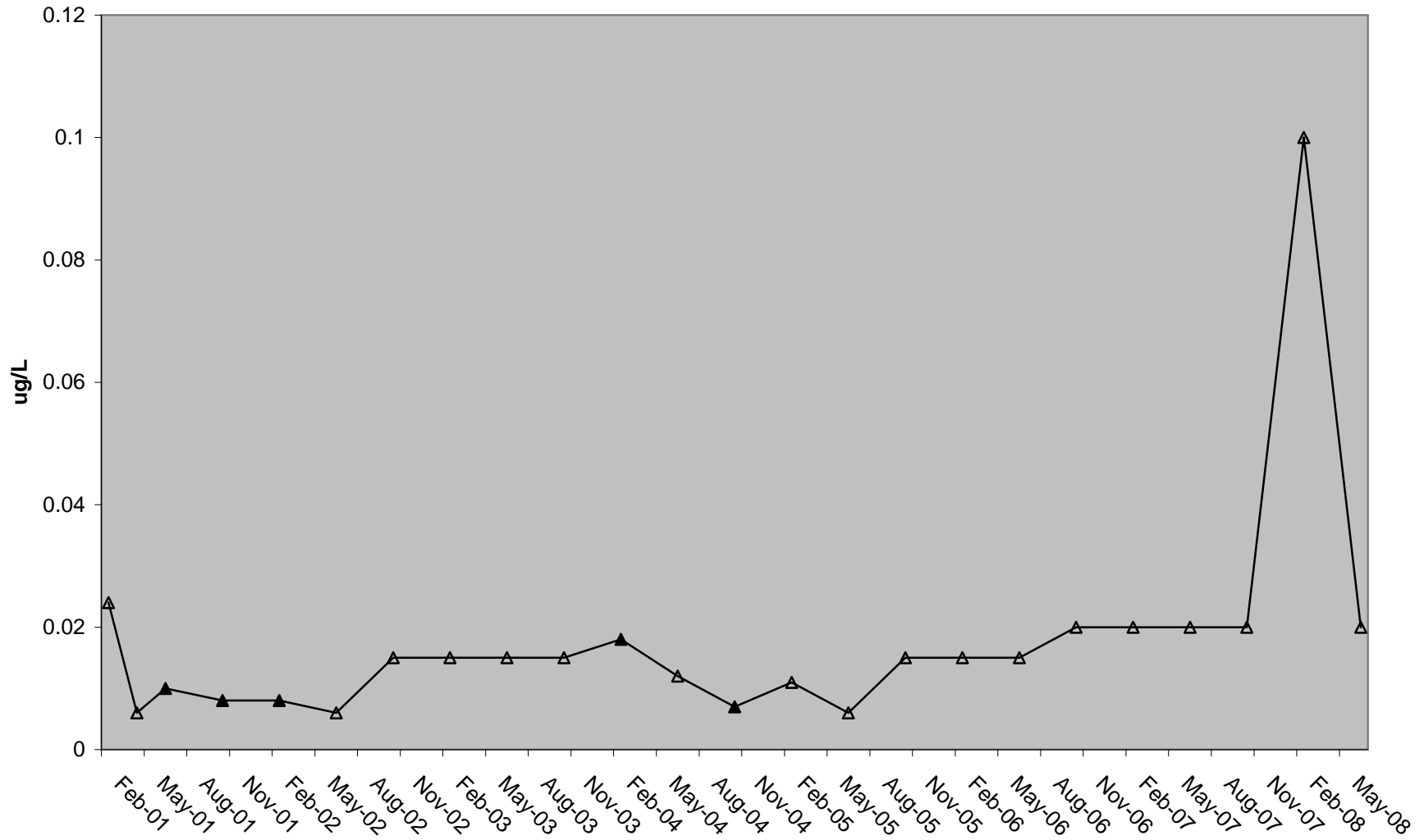
### River Mile 44 Dissolved Silver (Ag-d)

— Trendline    Δ Below Detection    ▲ Result



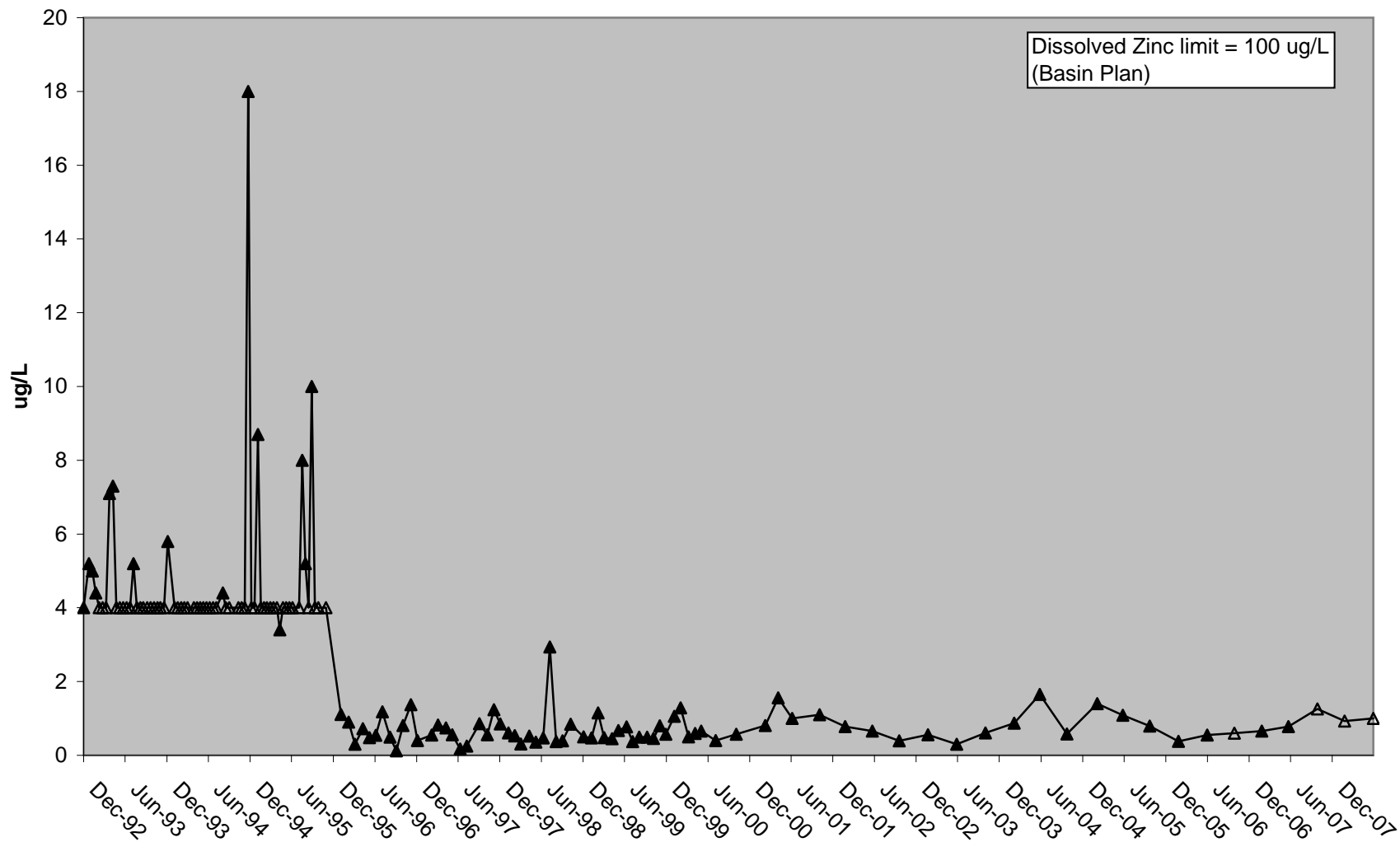
### River Mile 44 Total Silver (Ag-T)

— Trendline    △ Below Detection    ▲ Result



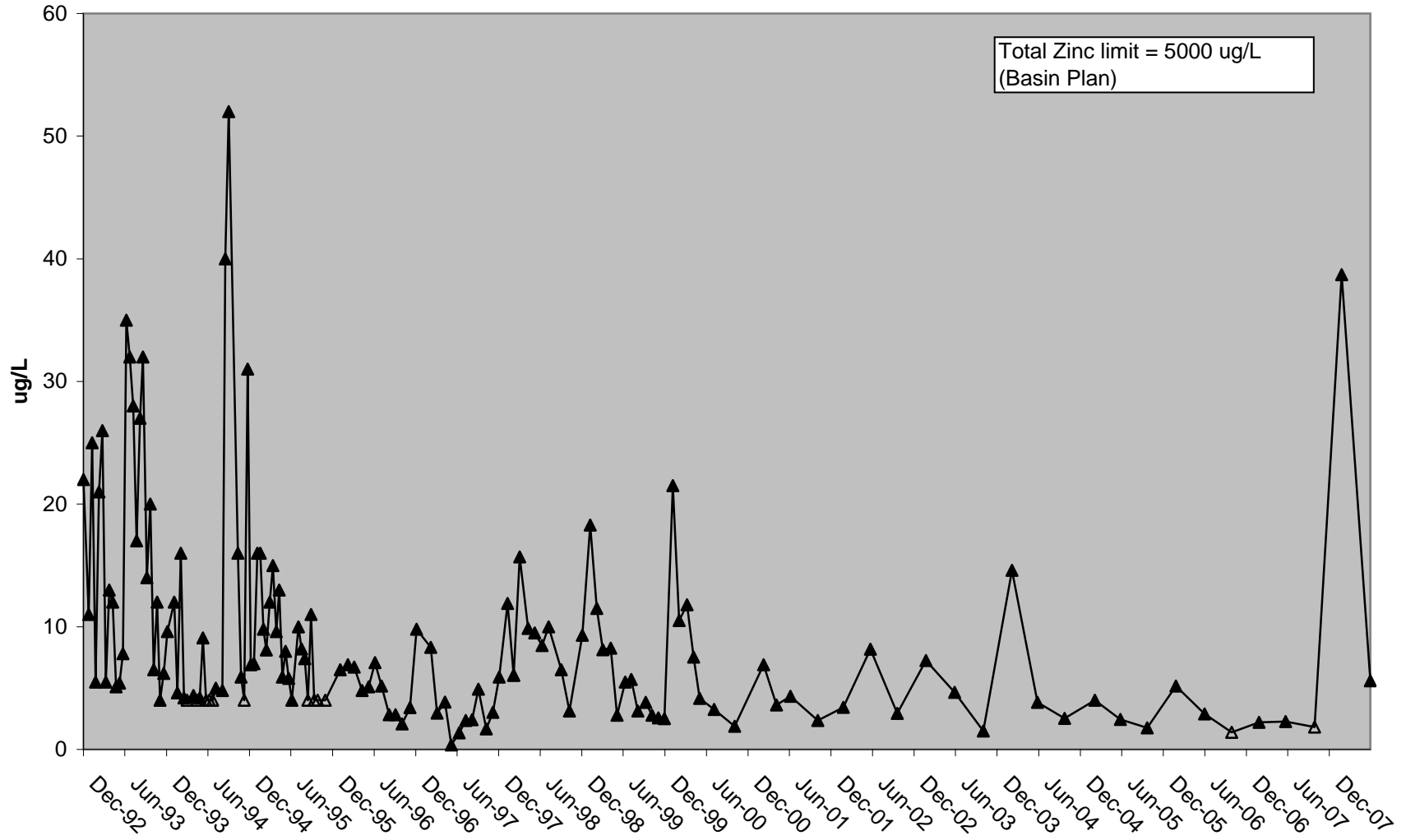
### River Mile 44 Dissolved Zinc (Zn-d)

— Trendline    △ Below Detection    ▲ Result



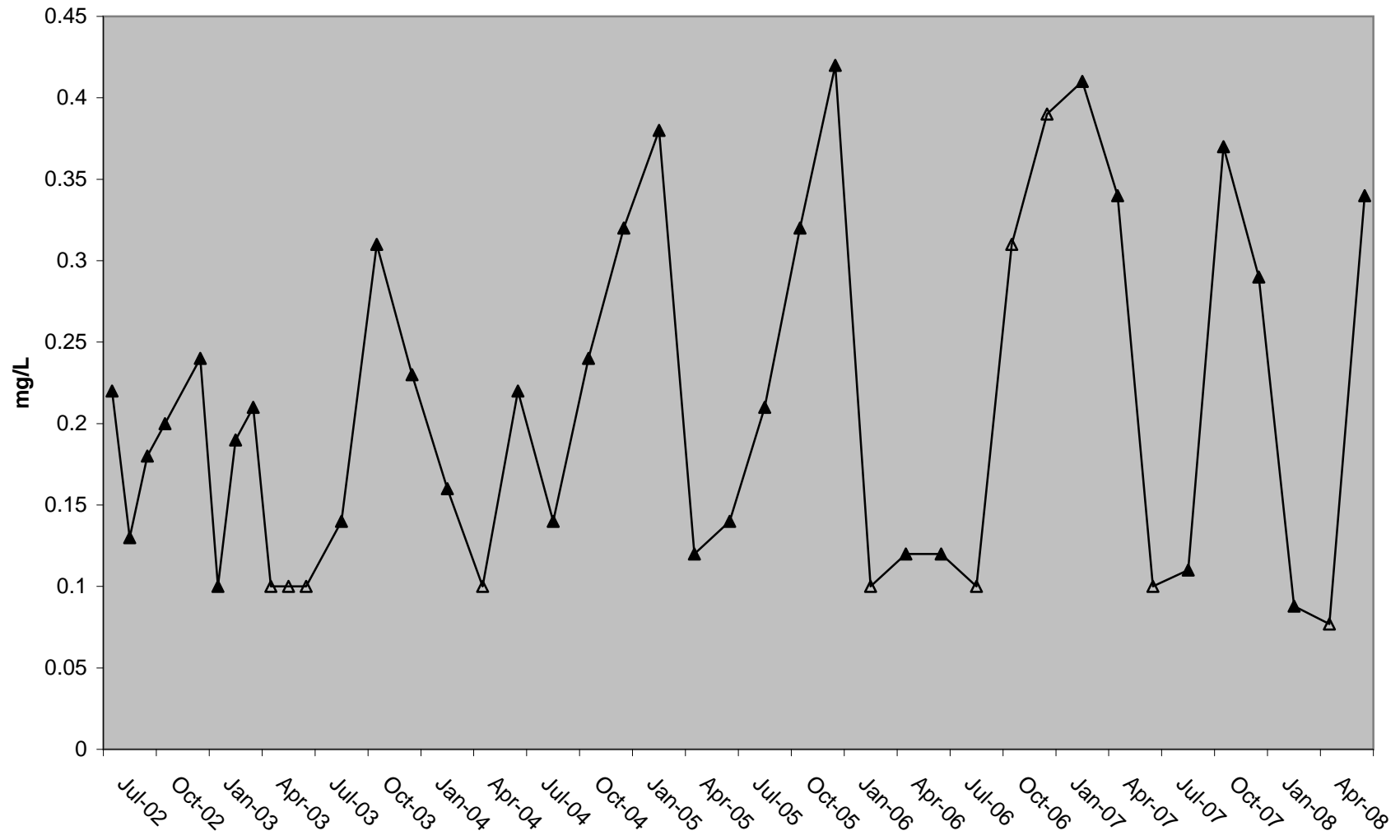
### River Mile 44 Total Zinc (Zn-T)

— Trendline    △ Below Detection    ▲ Result



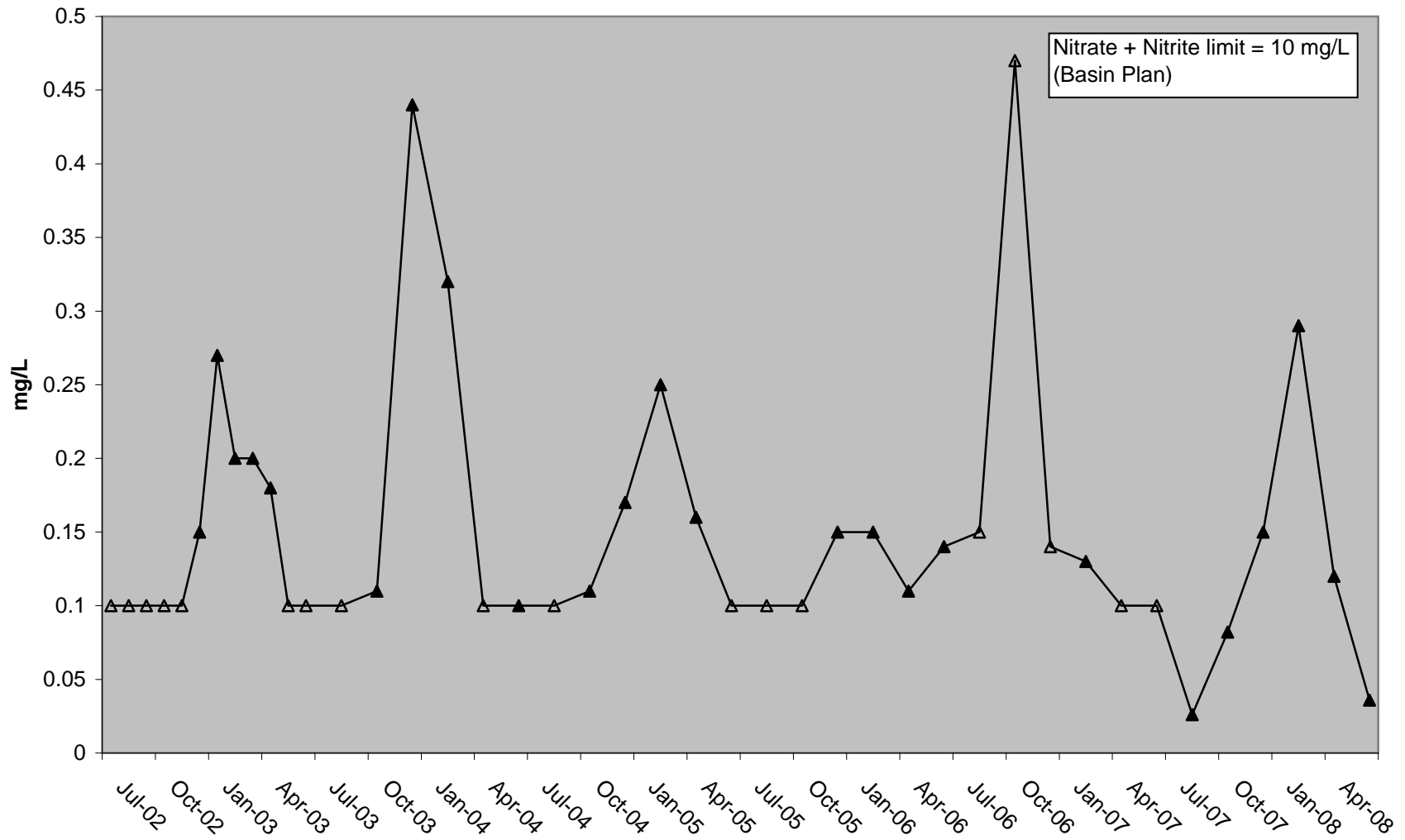
### River Mile 44 Ammonia (NH<sub>3</sub>-N)

— Trendline    △ Below Detection    ▲ Result



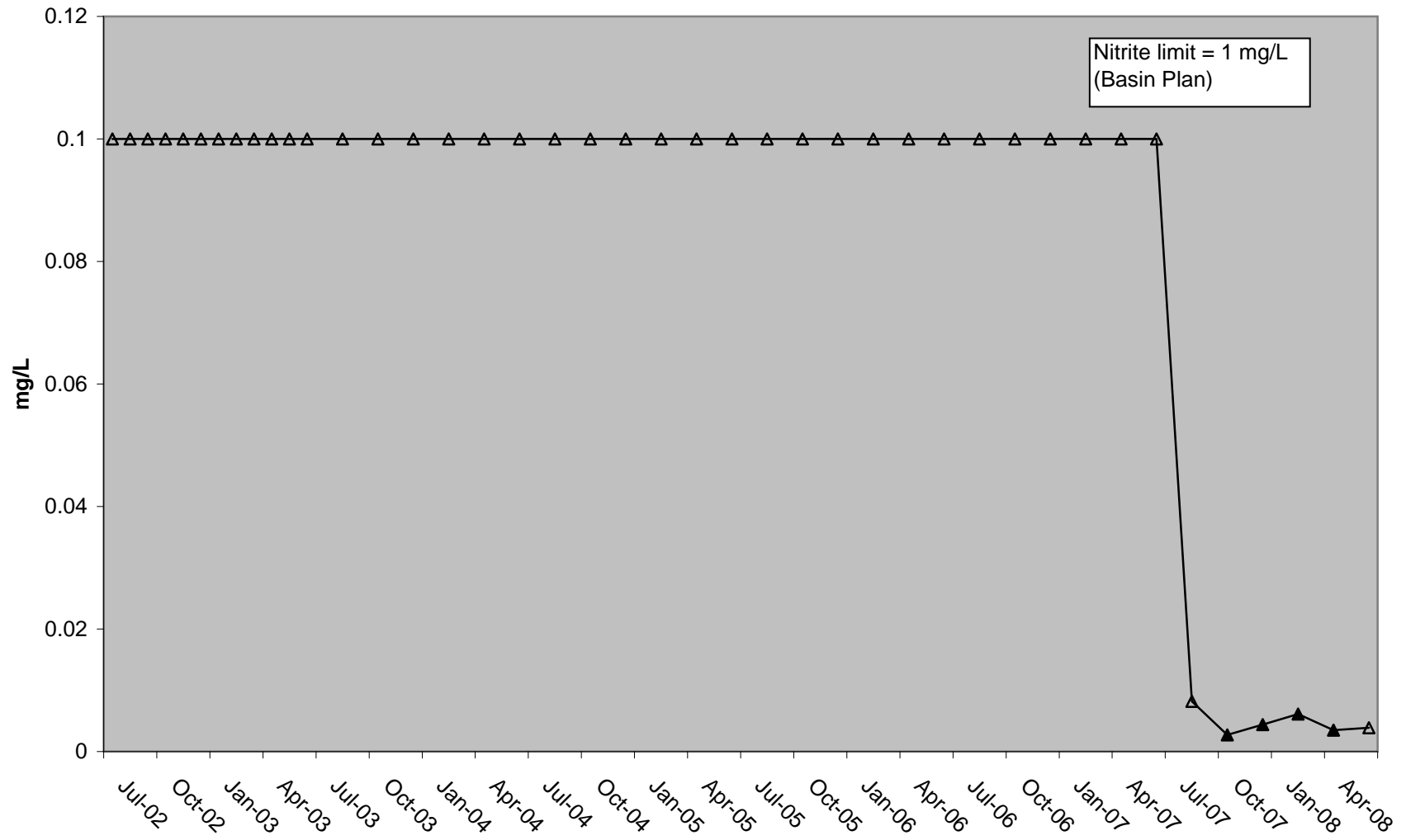
### River Mile 44 Nitrate (NO<sub>3</sub>-N)

— Trendline    Δ Below Detection    ▲ Result



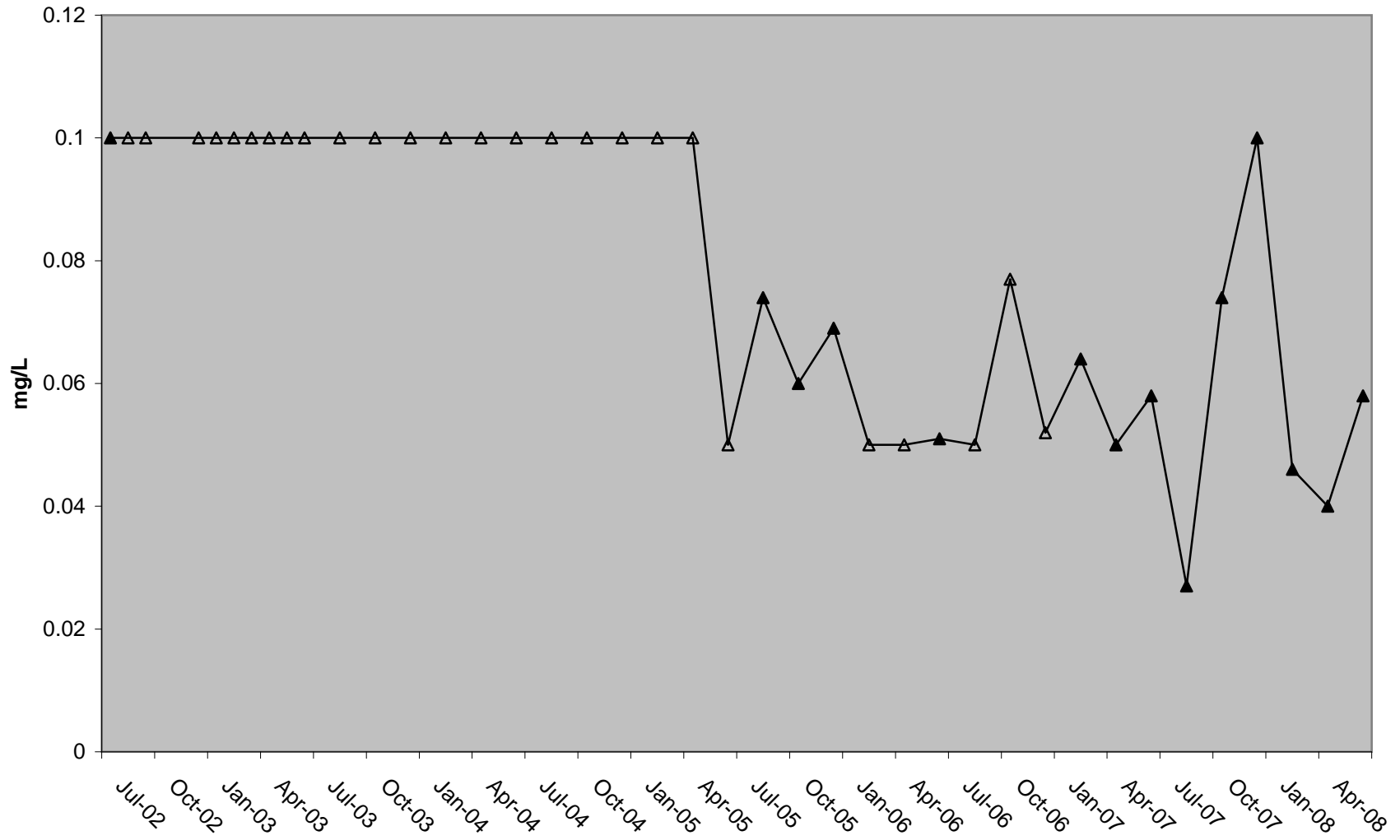
### River Mile 44 Nitrite (NO<sub>2</sub>-N)

— Trendline    Δ Below Detection    ▲ Result



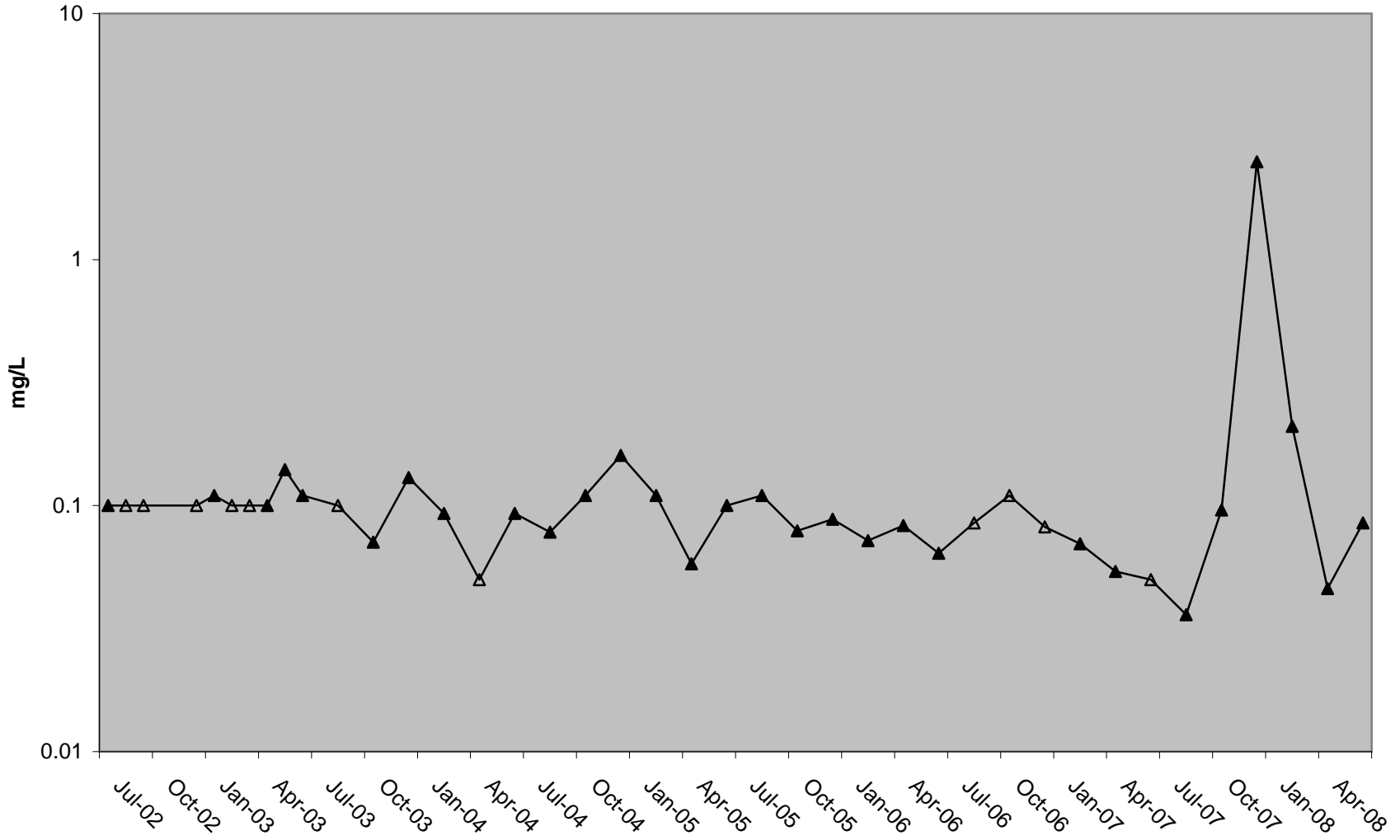
### River Mile 44 Dissolved Ortho-Phosphate

— Trendline    Δ Below Detection    ▲ Result



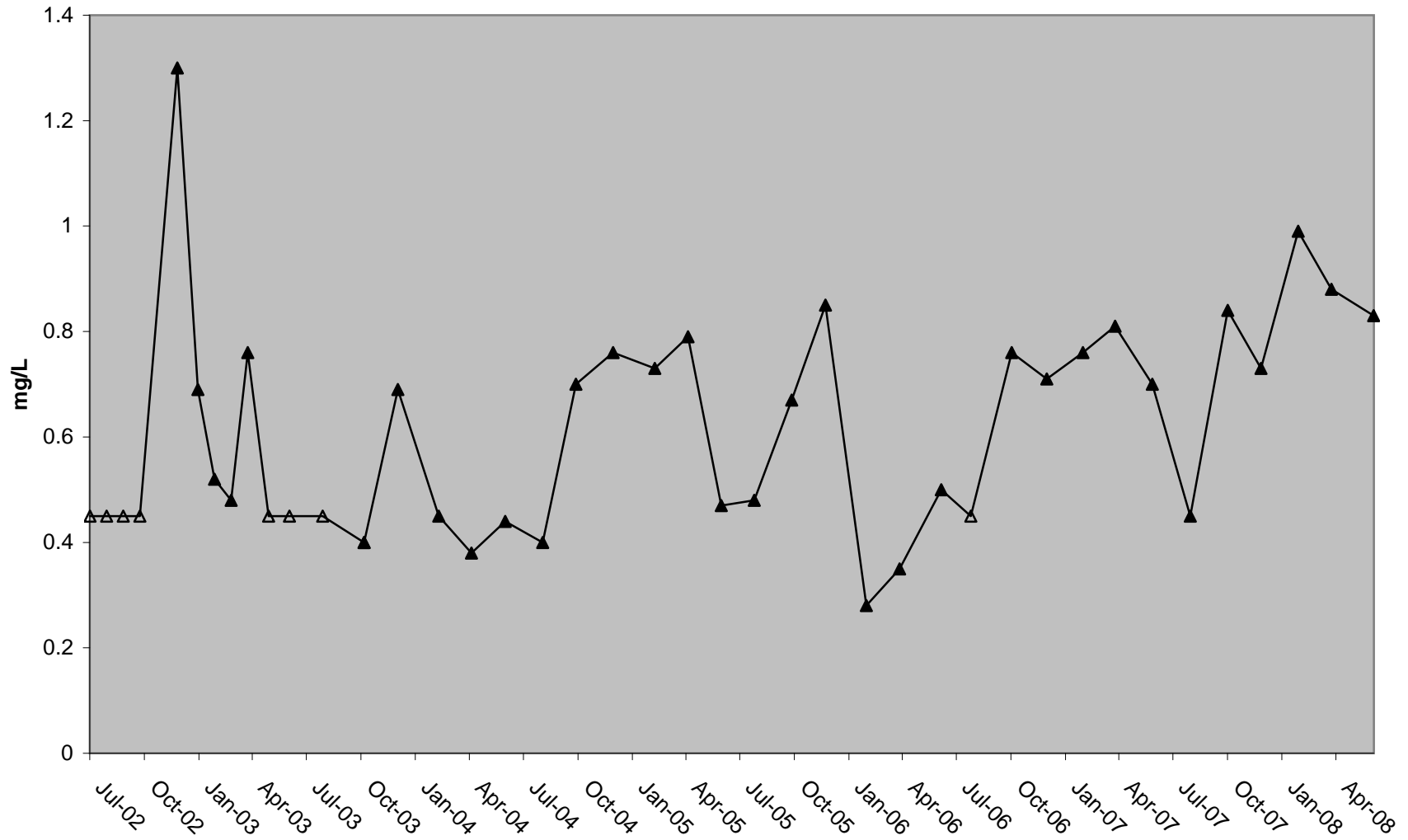
### River Mile 44 Total Phosphorus (TP)

— Trendline    Δ Below Detection    ▲ Result



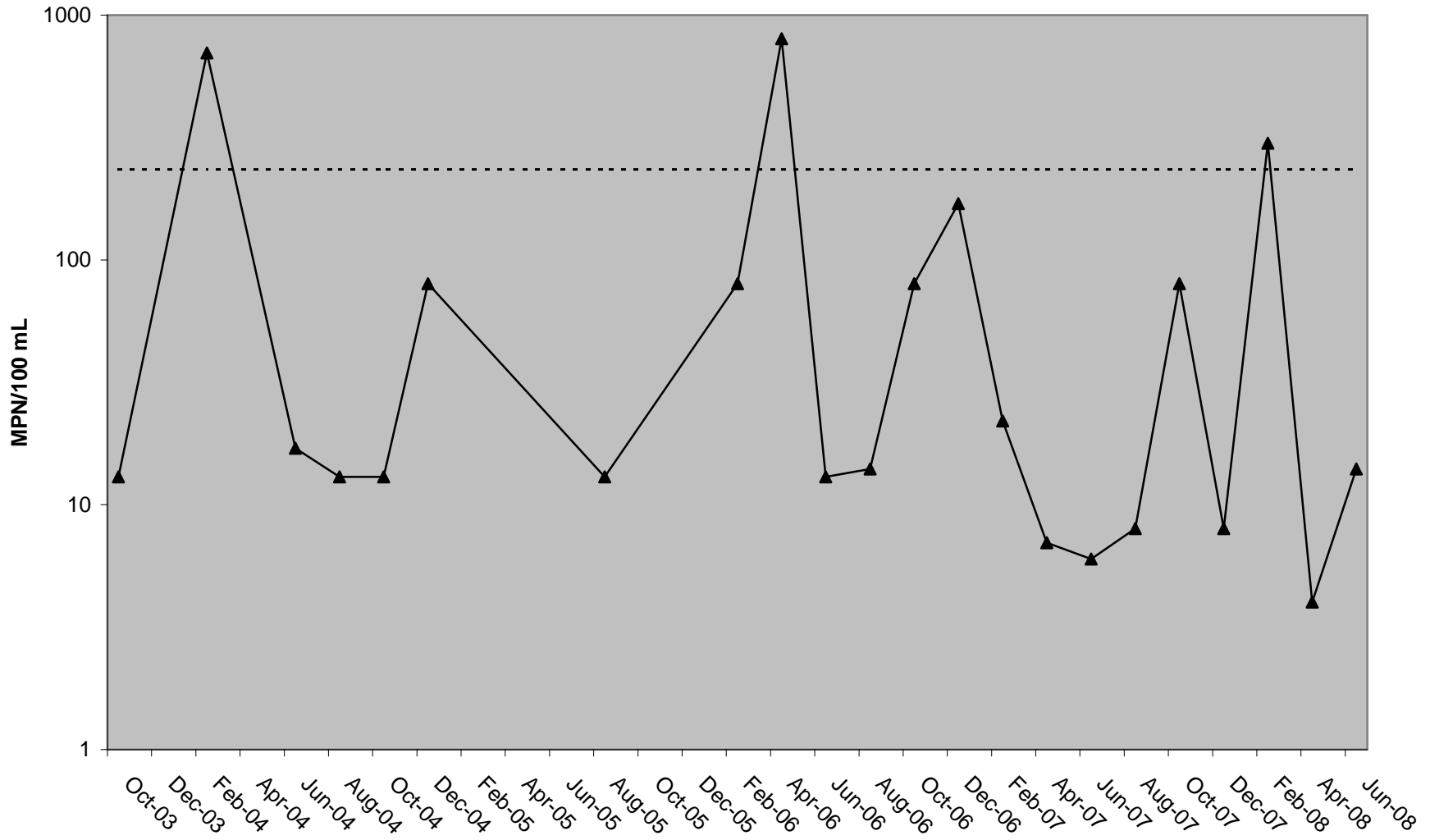
### River Mile 44 Total Kjeldahl Nitrogen (TKN)

— Trendline    △ Below Detection    ▲ Result



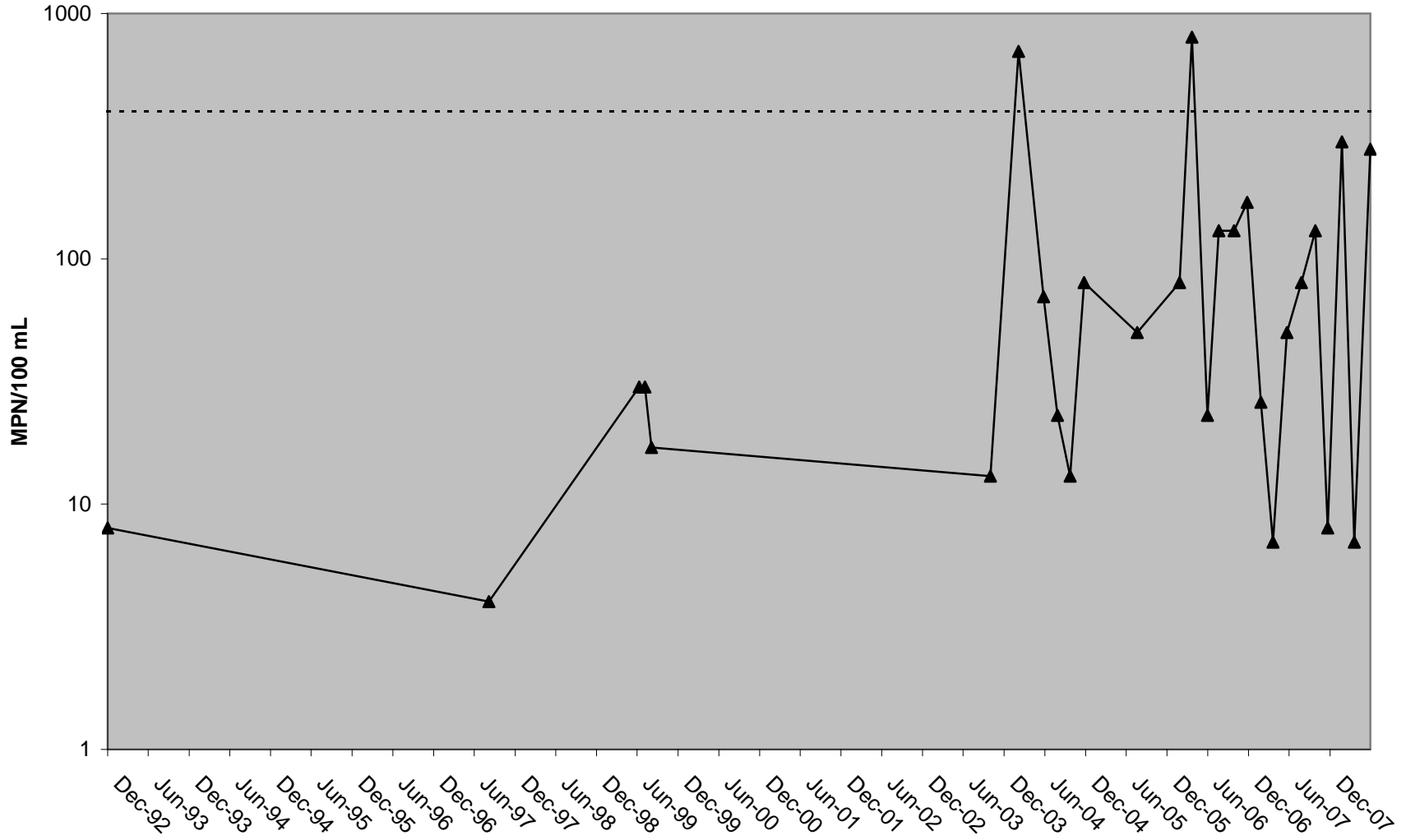
### River Mile 44 *E. coli*

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



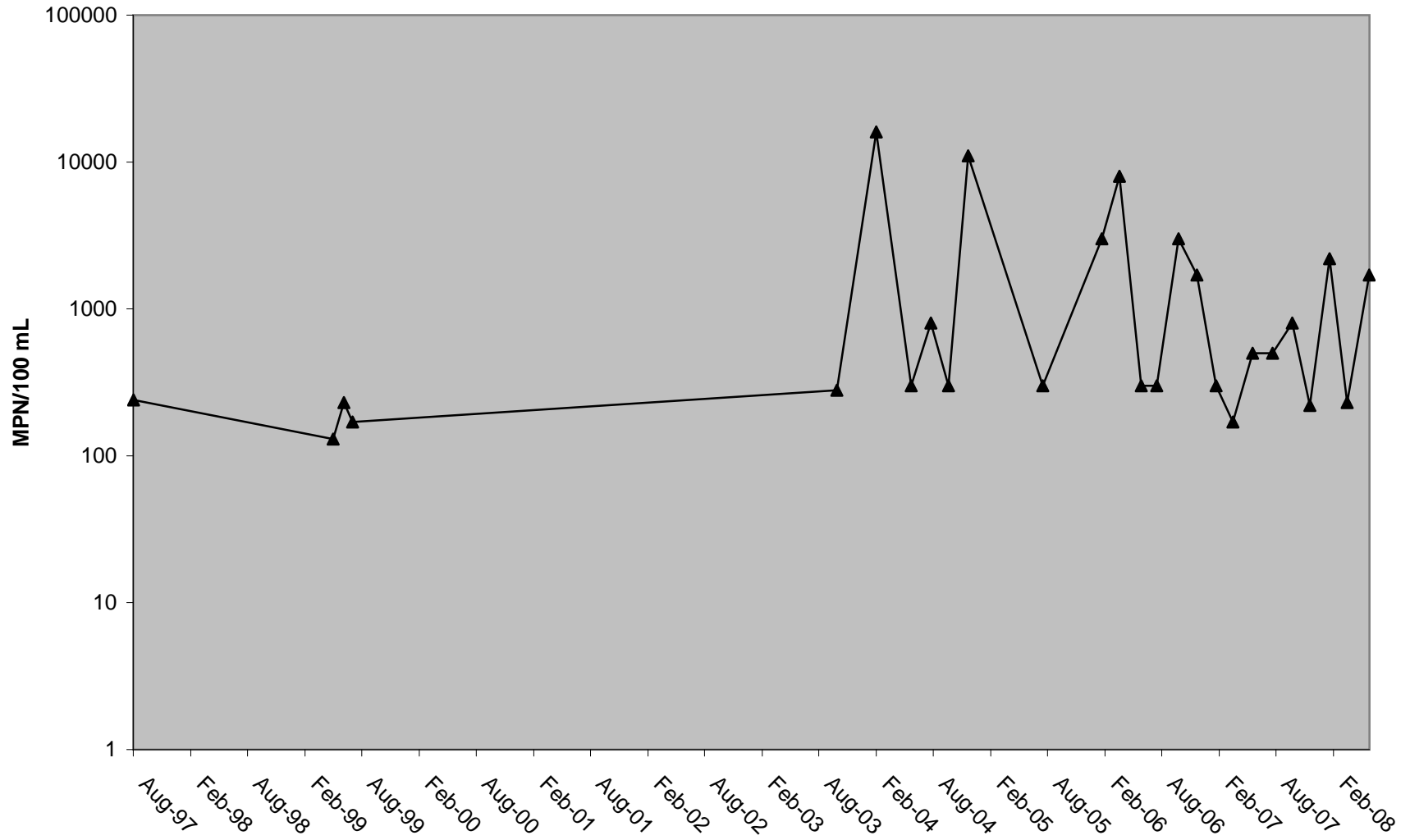
### River Mile 44 Fecal Coliform

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



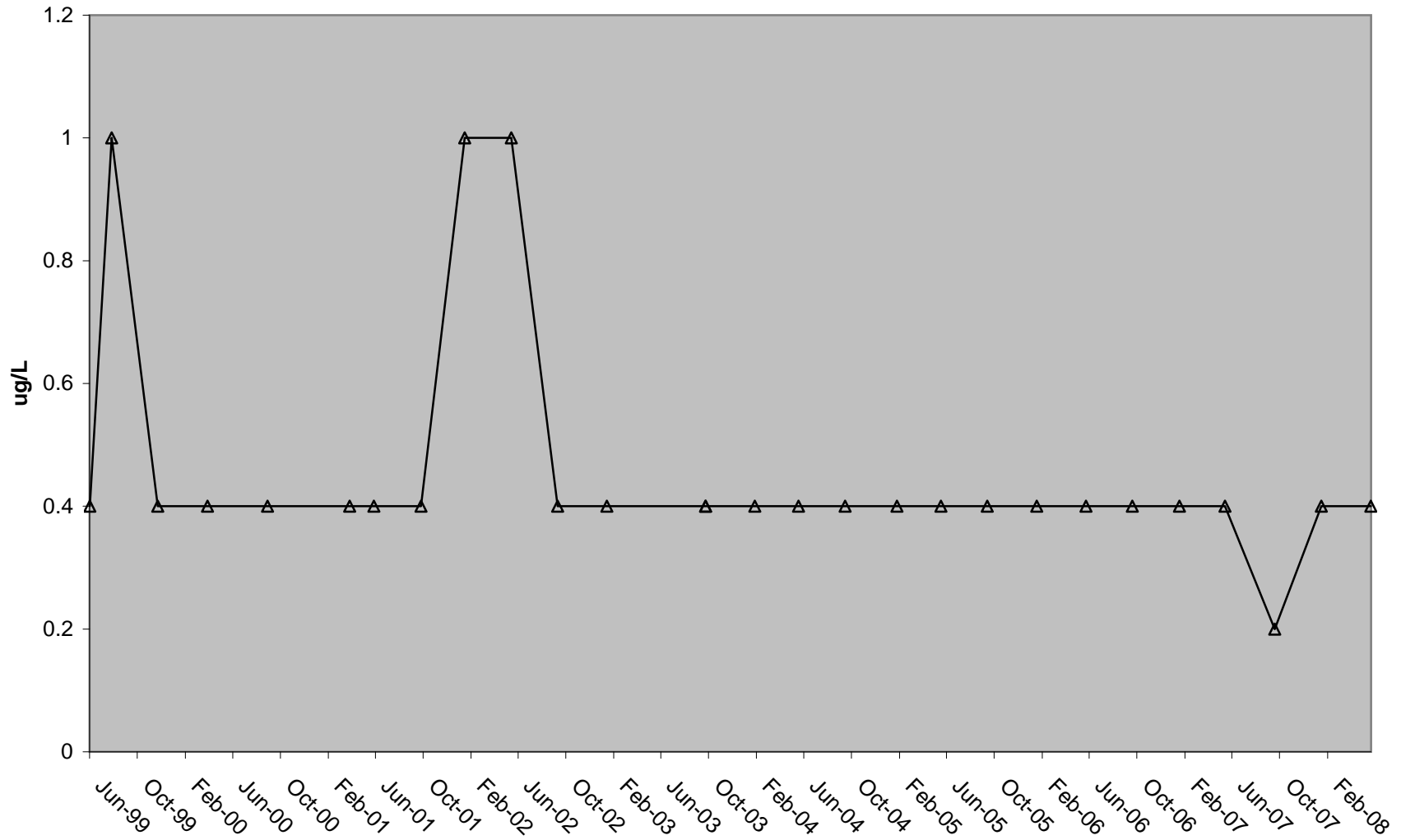
### River Mile 44 Total Coliform

— Trendline    Δ Below Detection    ▲ Result



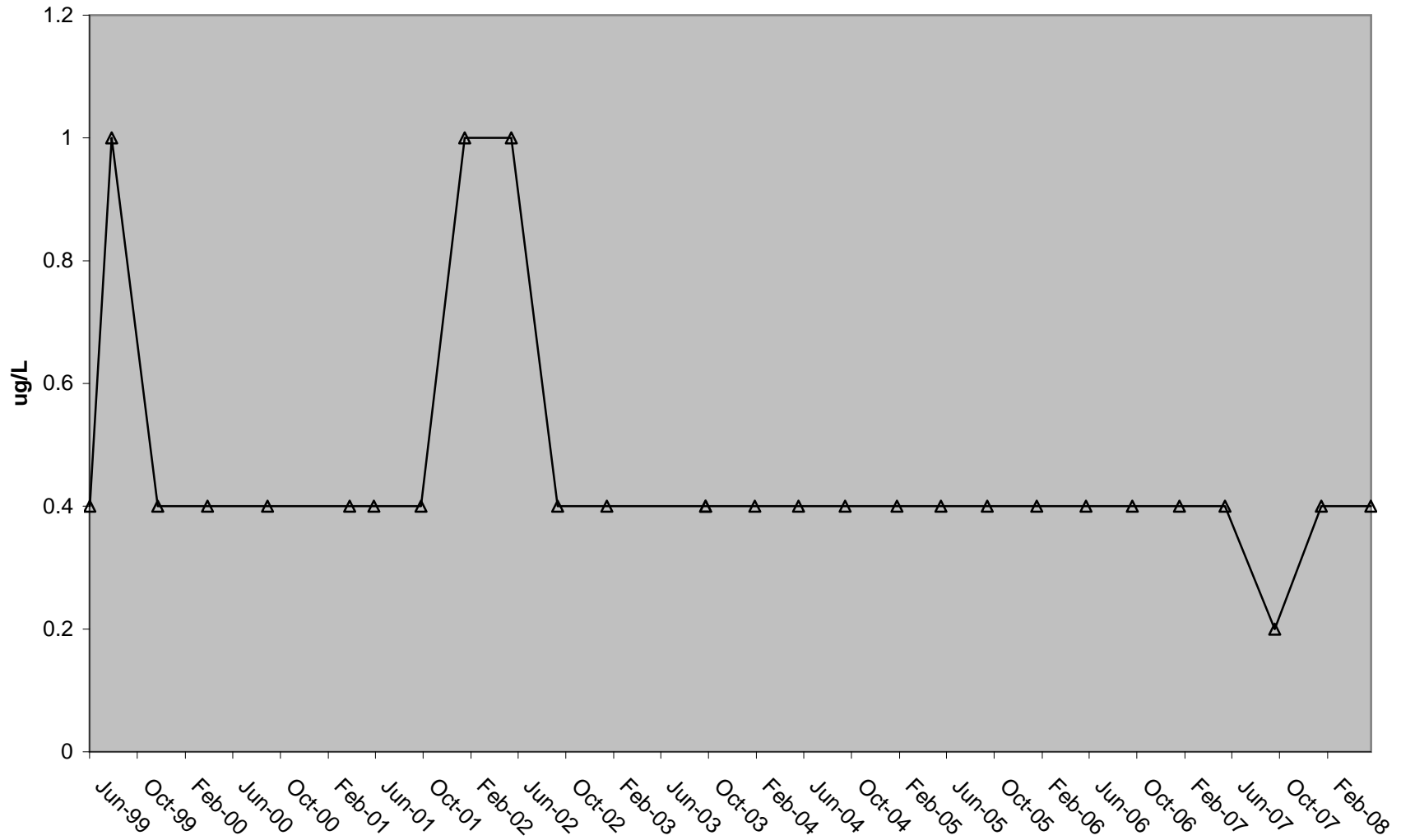
### River Mile 44 Aldicarb

— Trendline    △ Below Detection    ▲ Result



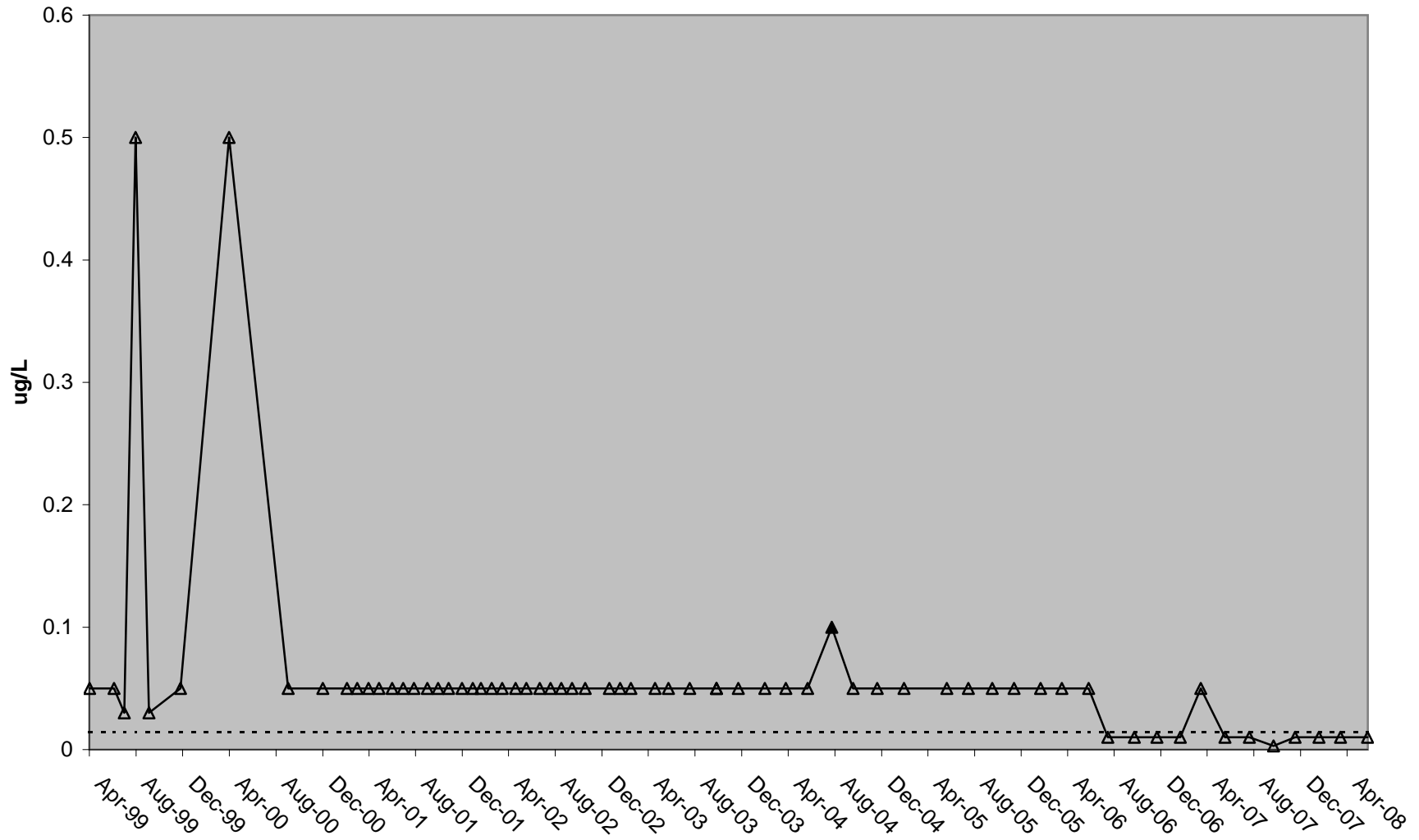
# River Mile 44 Propoxur

— Trendline    △ Below Detection    ▲ Result



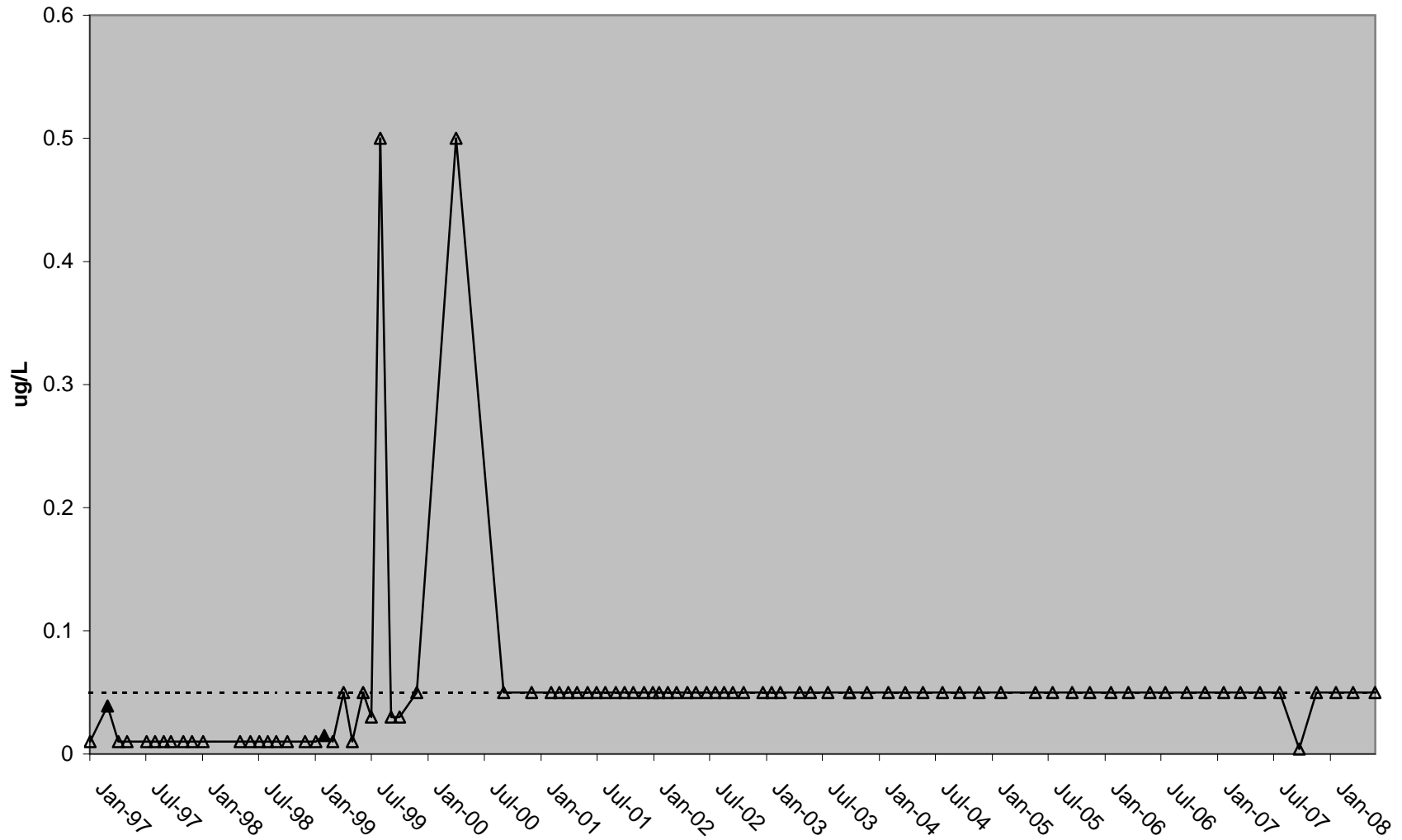
# River Mile 44 Chlorpyrifos

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



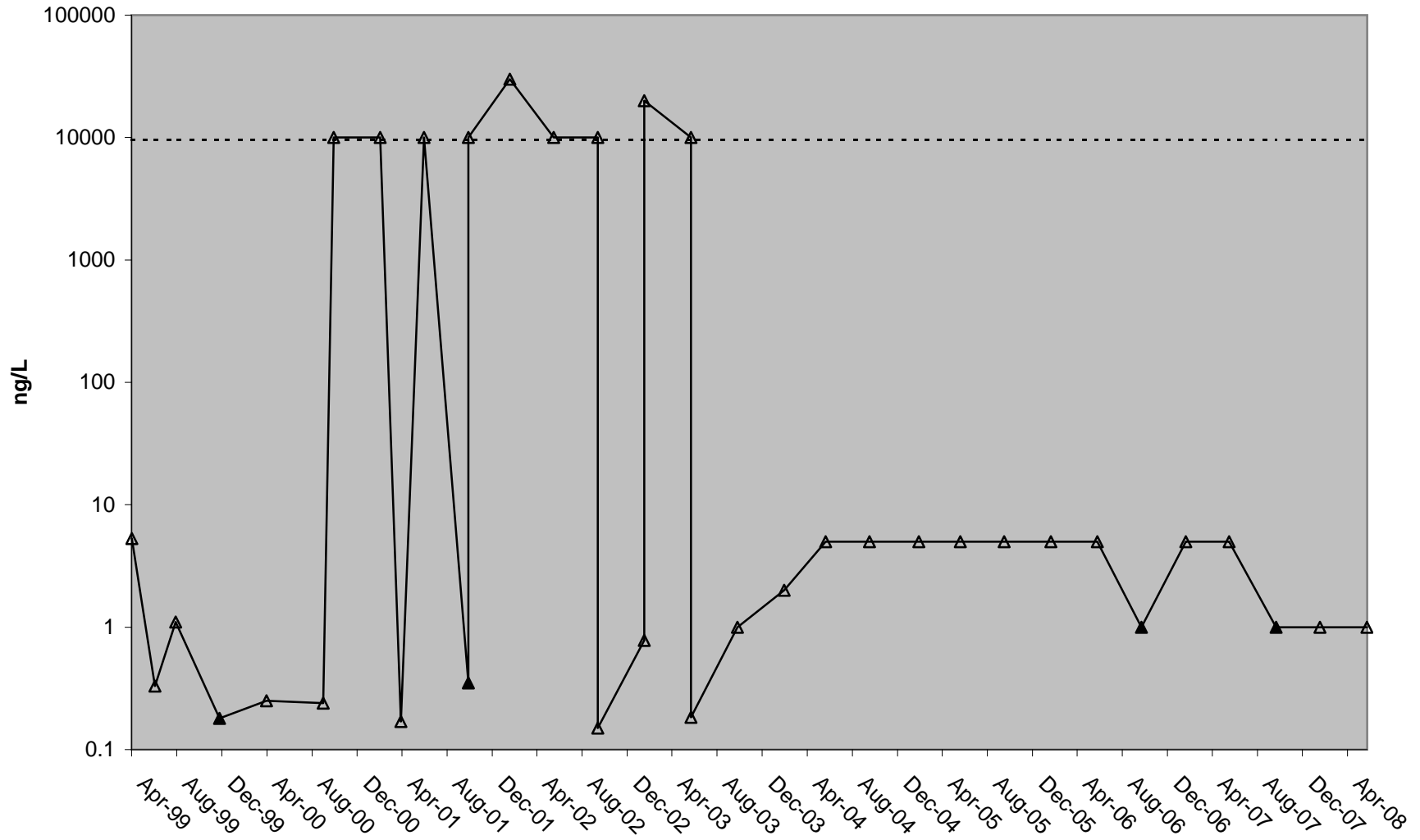
# River Mile 44 Diazinon

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



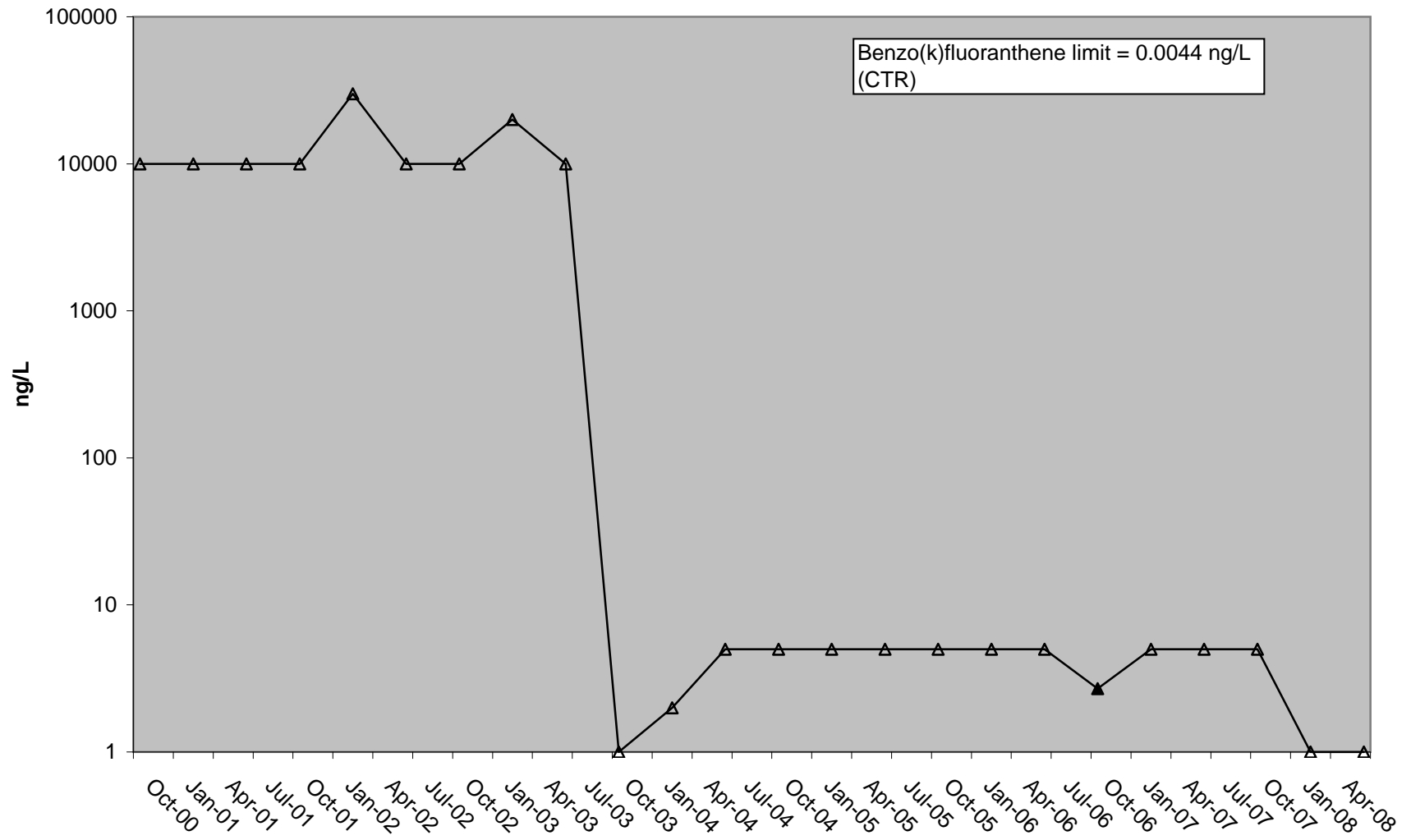
# River Mile 44 Anthracene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



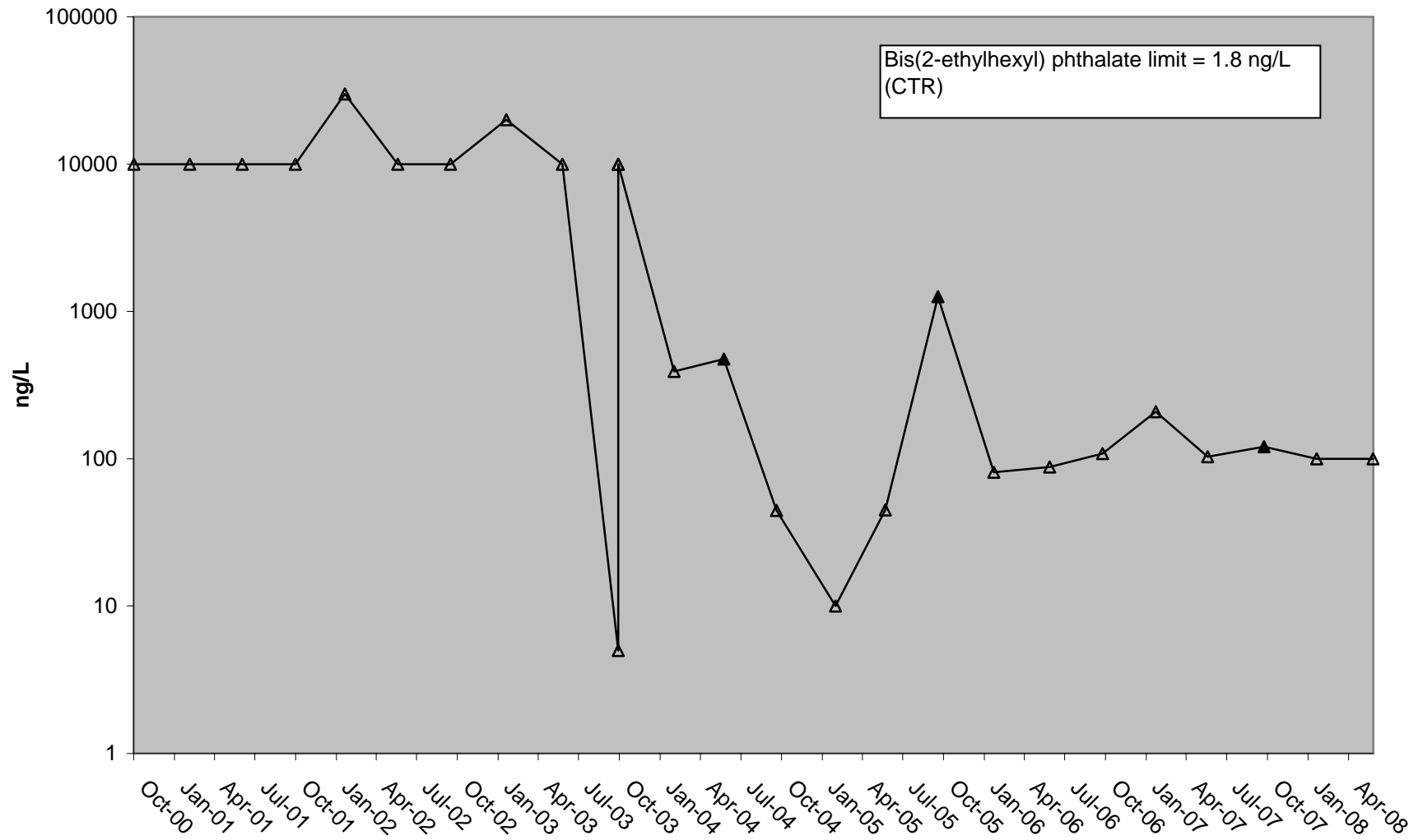
### River Mile 44 Benzo(k)fluoranthene

— Trendline    △ Below Detection    ▲ Result



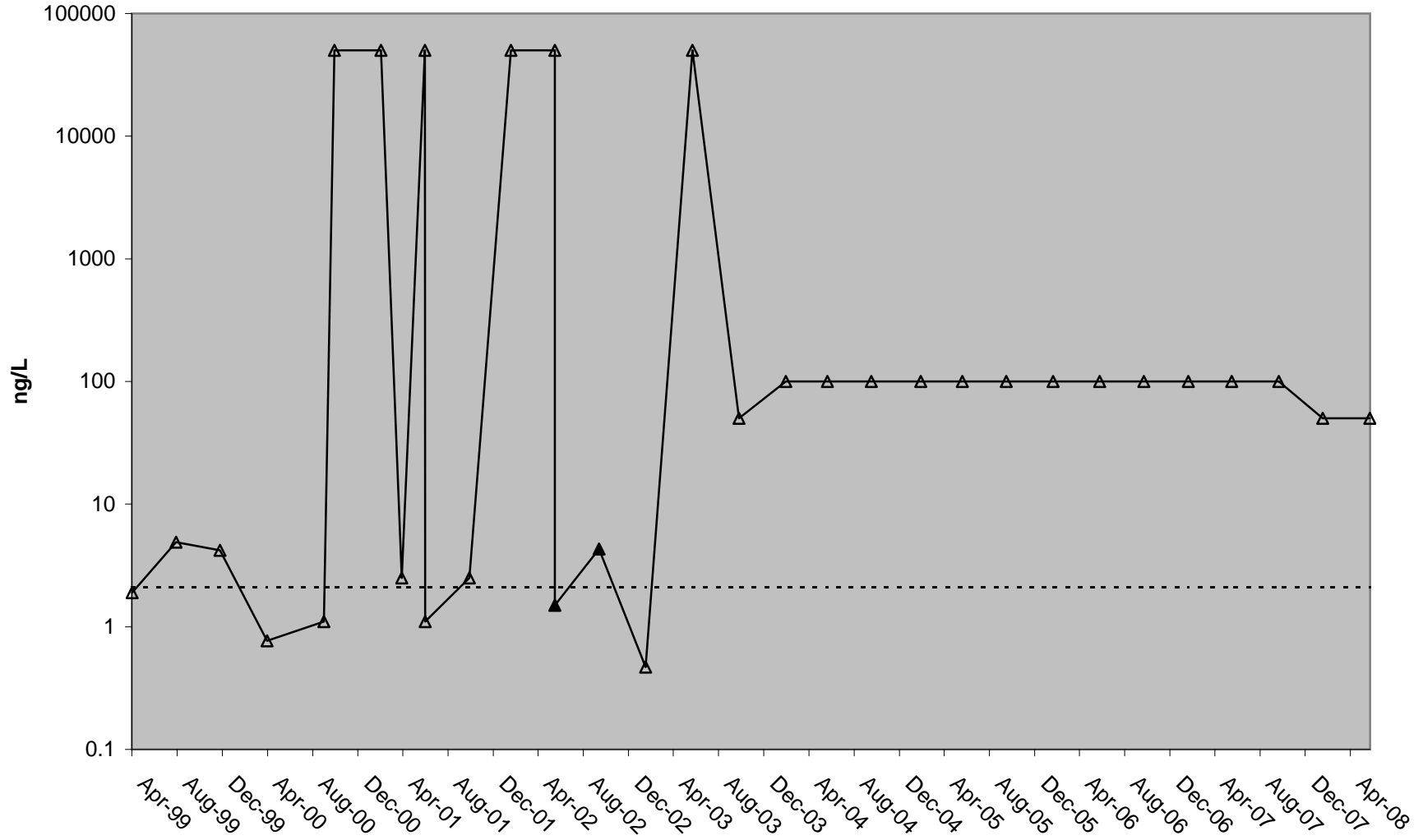
### River Mile 44 Bis(2-ethylhexyl) phthalate

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



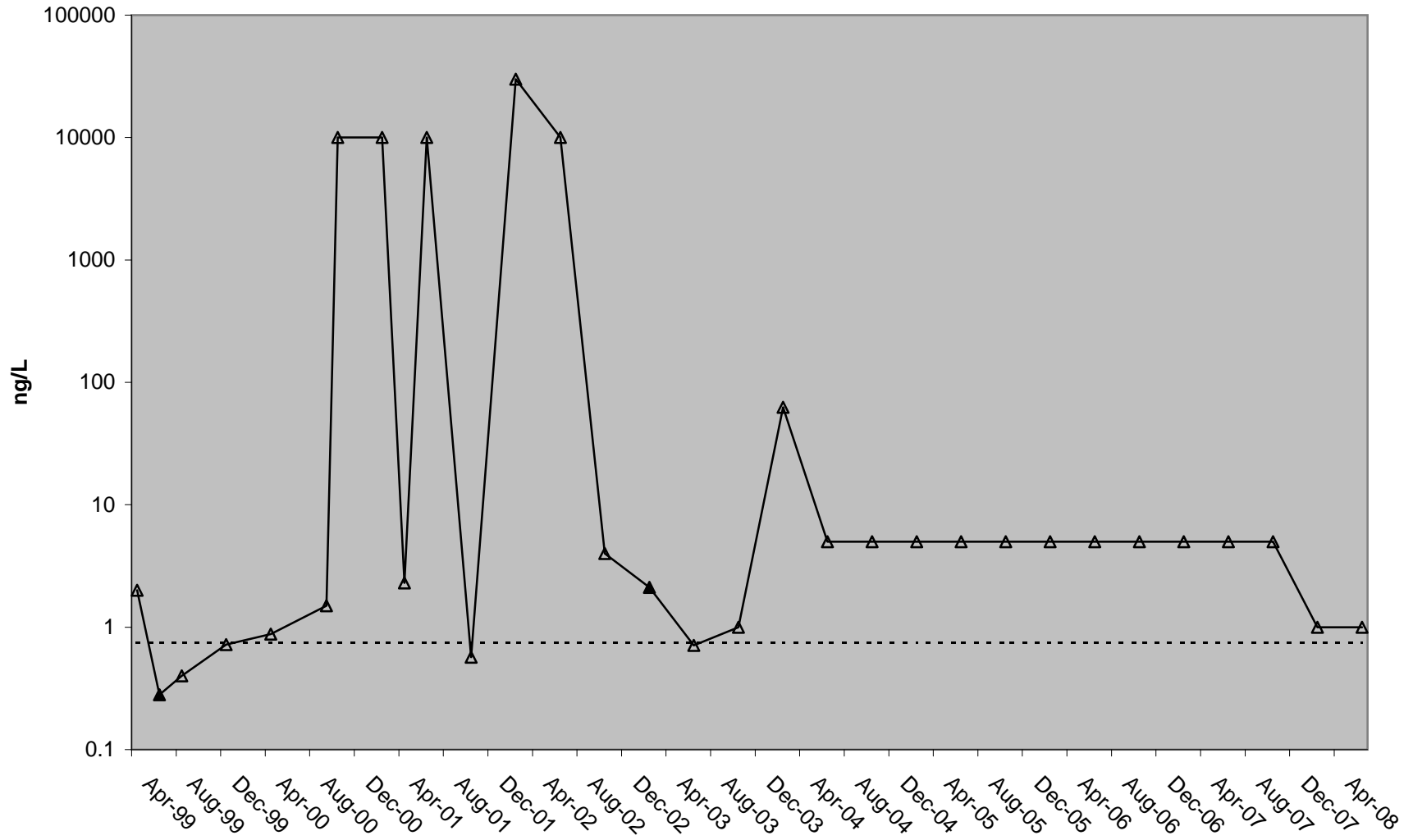
# River Mile 44 Pentachlorophenol

— Trendline    △ Below Detection    ▲ Result    - - - - - Lowest Objective



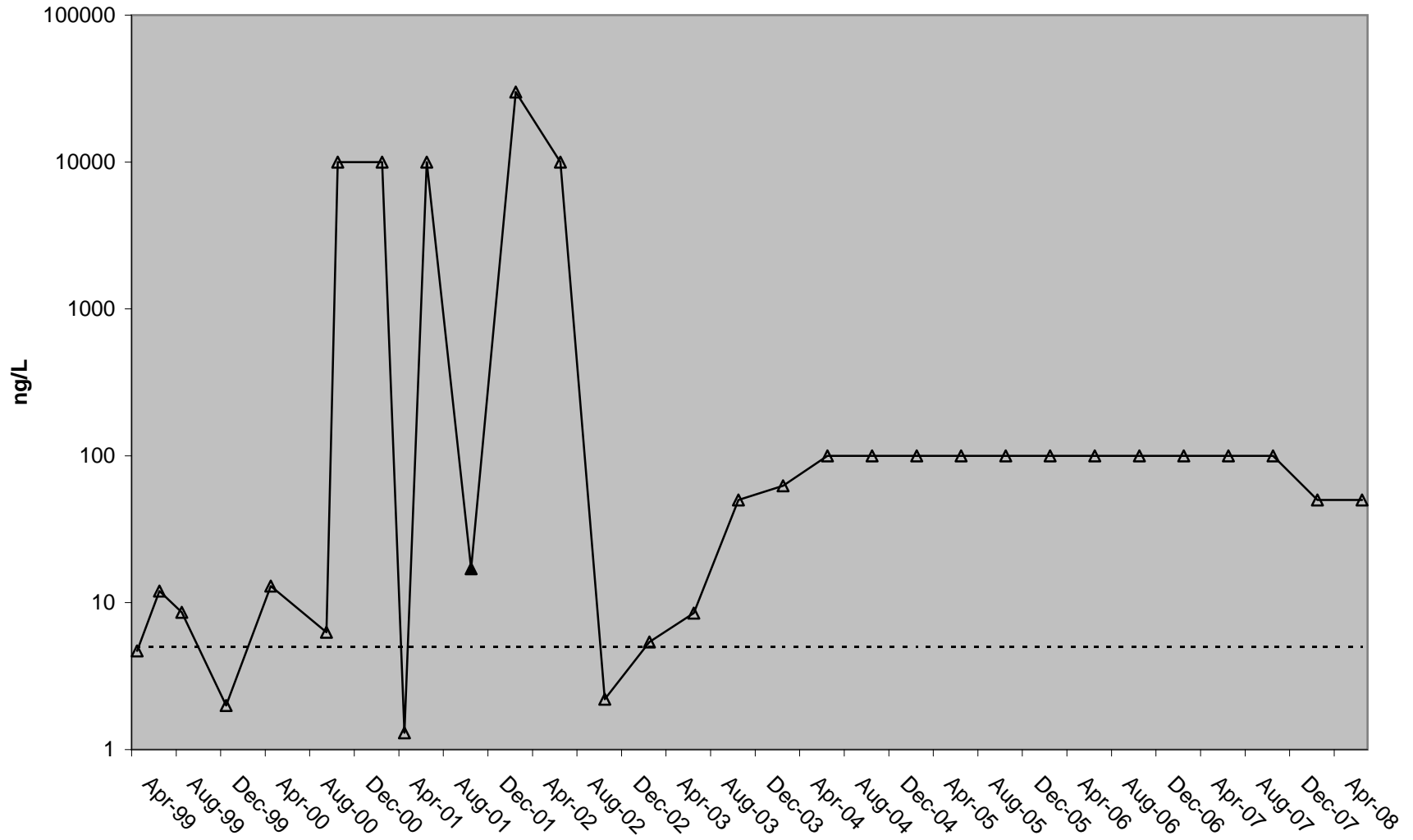
### River Mile 44 Hexachlorobenzene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



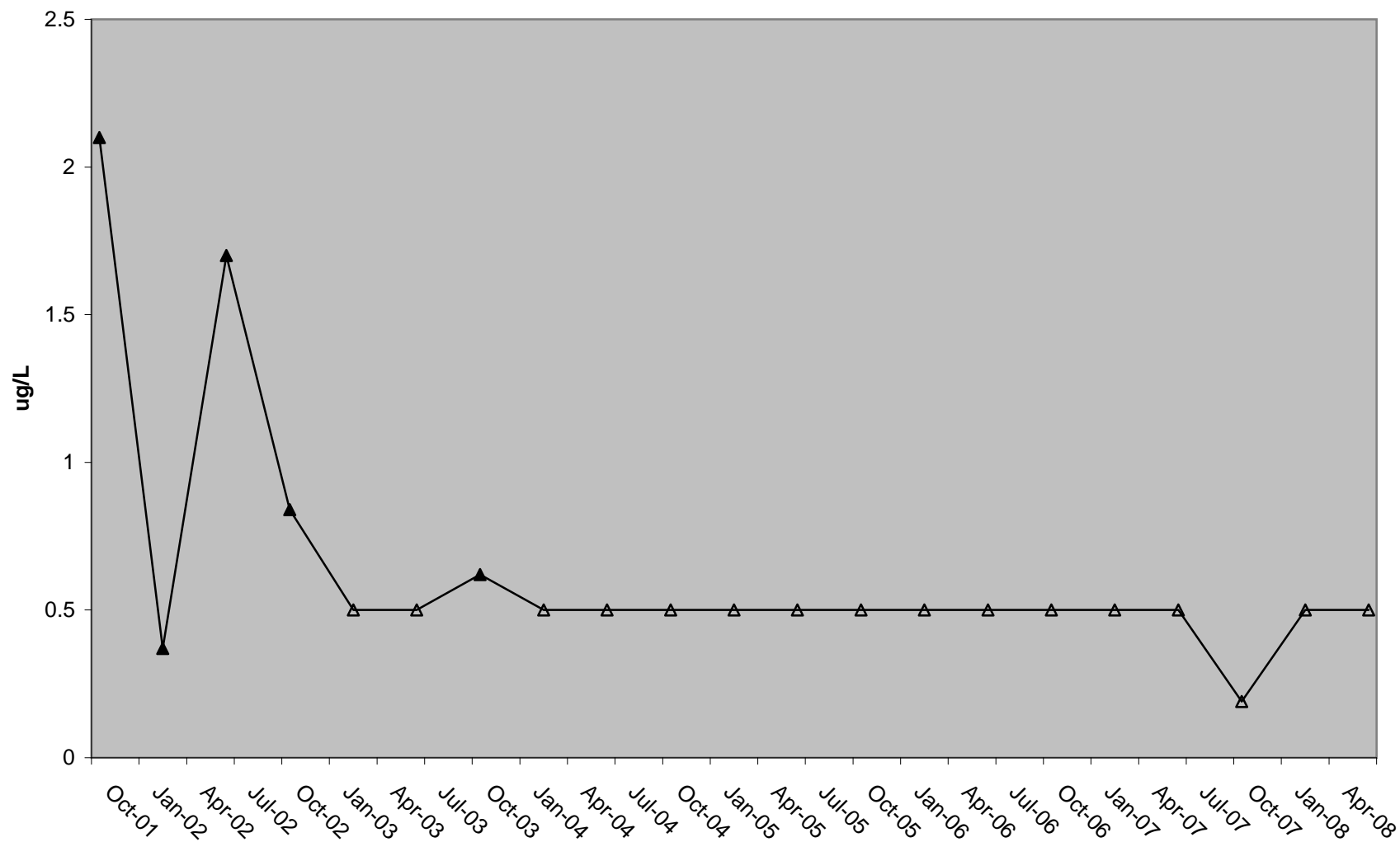
### River Mile 44 N-Nitroso-Di-N-Propylamine

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



### River Mile 44 MTBE

— Trendline    △ Below Detection    ▲ Result





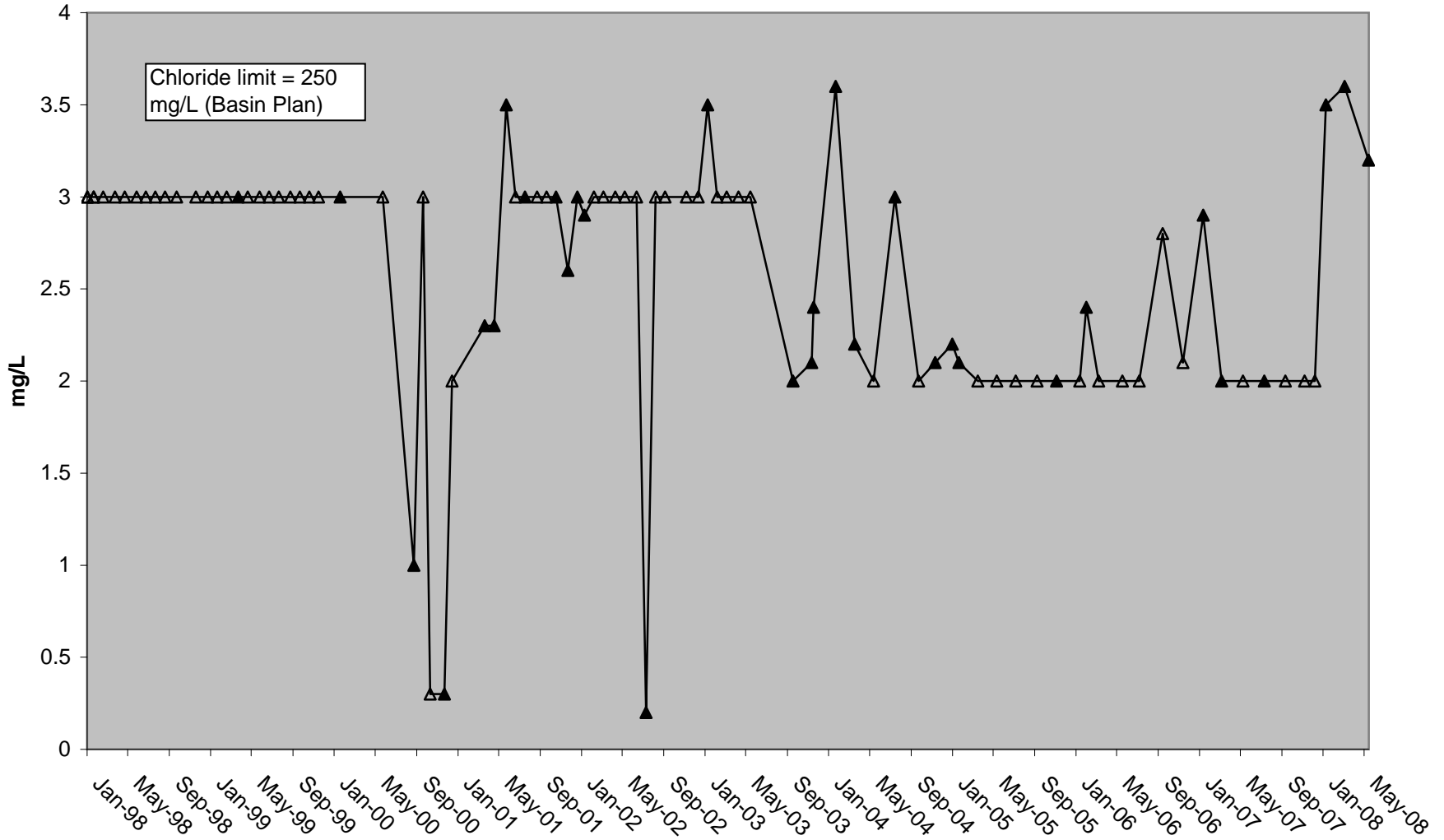
*APPENDIX C-4*

*American River at Nimbus*



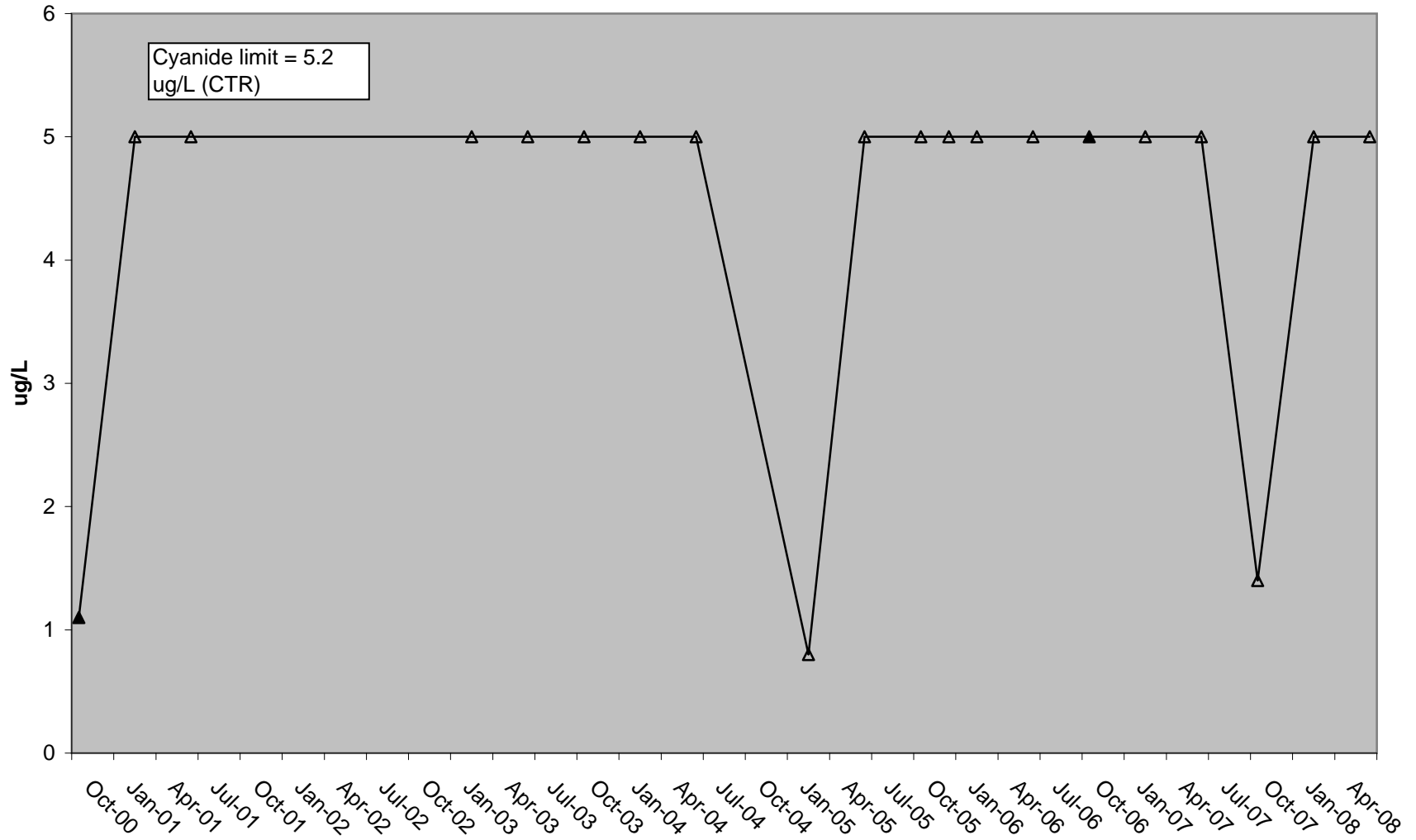
# Nimbus Chloride

— Trendline    △ Below Detection    ▲ Result



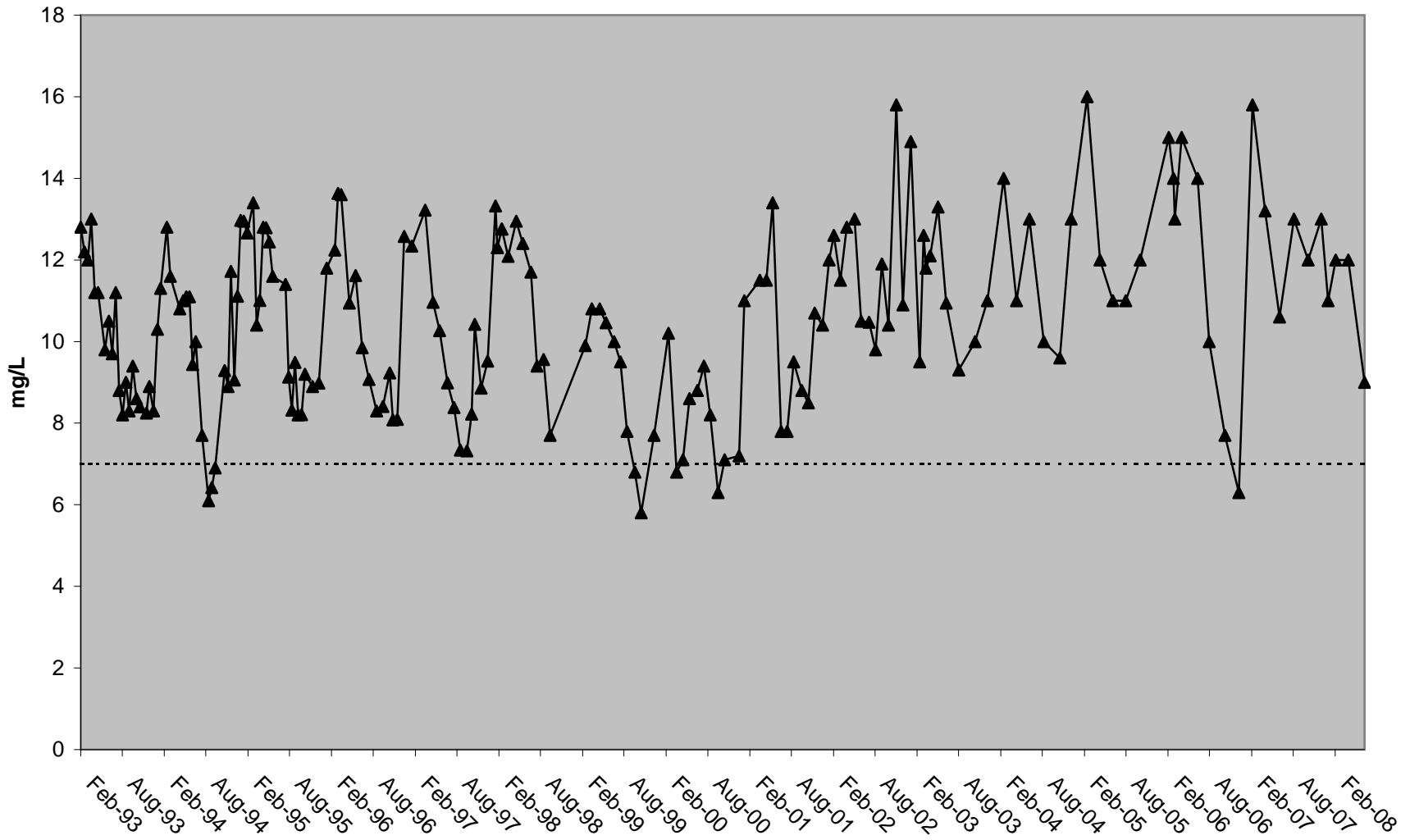
# Nimbus Cyanide

— Trendline    Δ Below Detection    ▲ Result



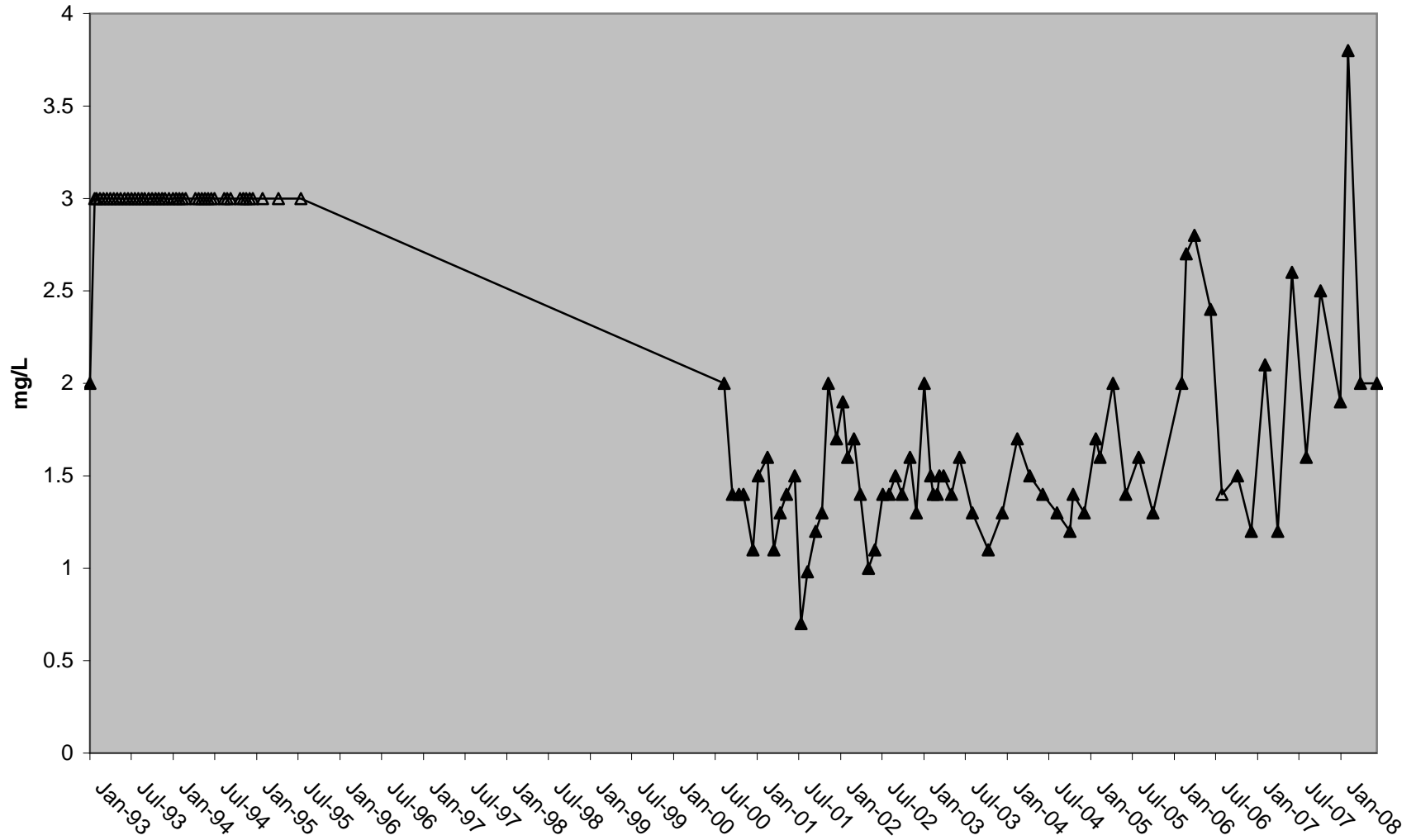
# Nimbus Dissolved Oxygen (DO)

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



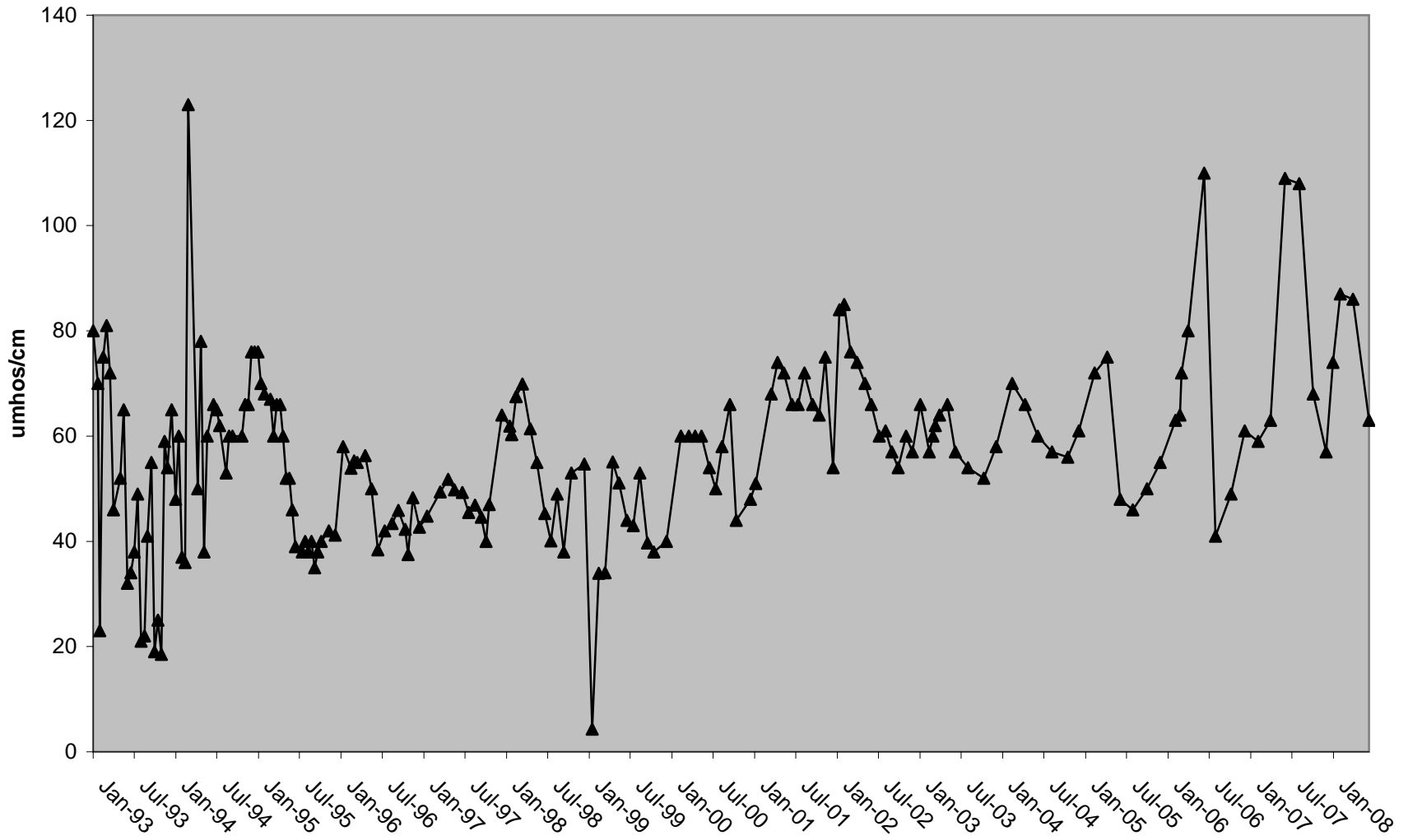
# Nimbus Dissolved Organic Carbon (DOC)

— Trendline    △ Below Detection    ▲ Result



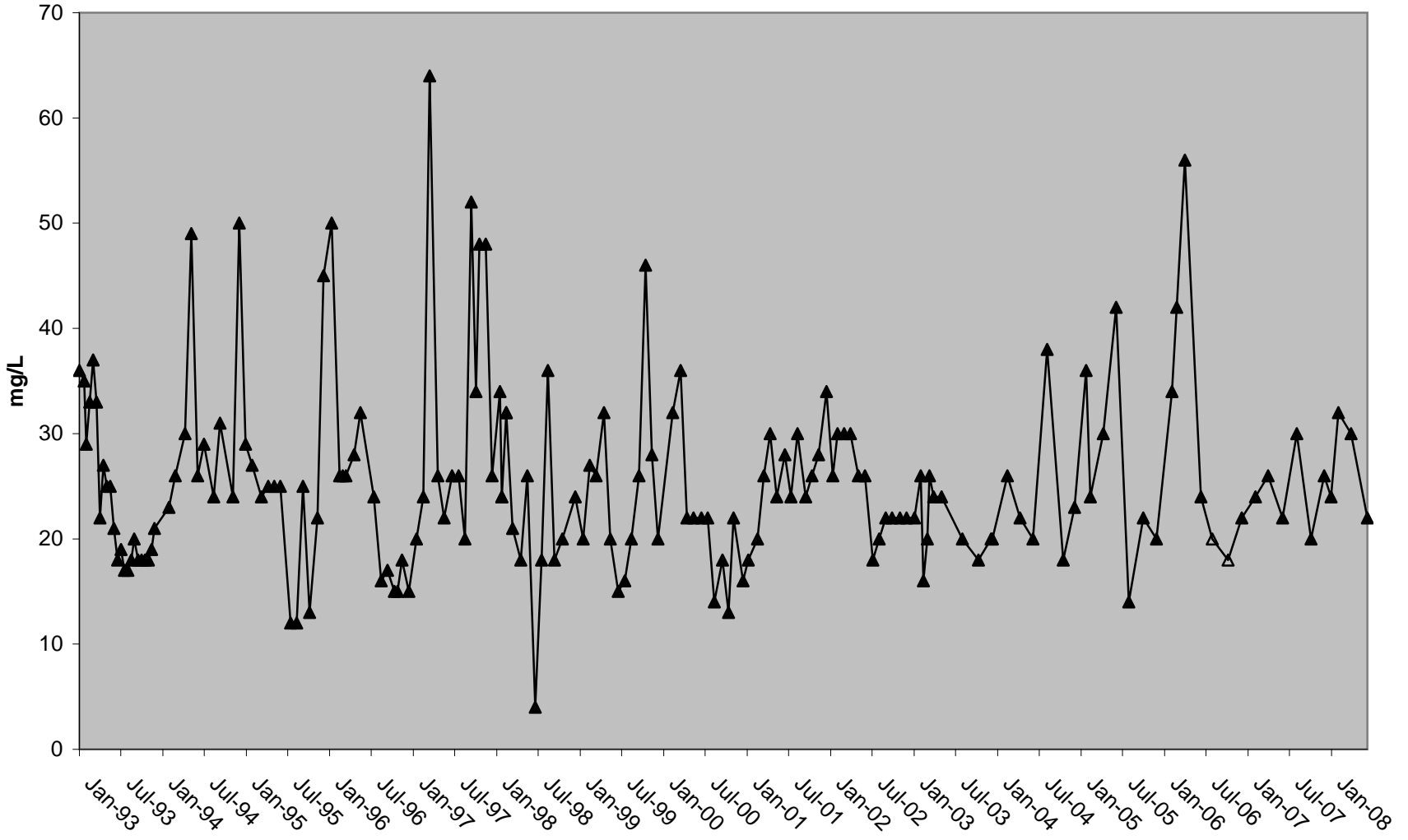
### Nimbus Electrical Conductivity (EC)

— Trendline    △ Below Detection    ▲ Result



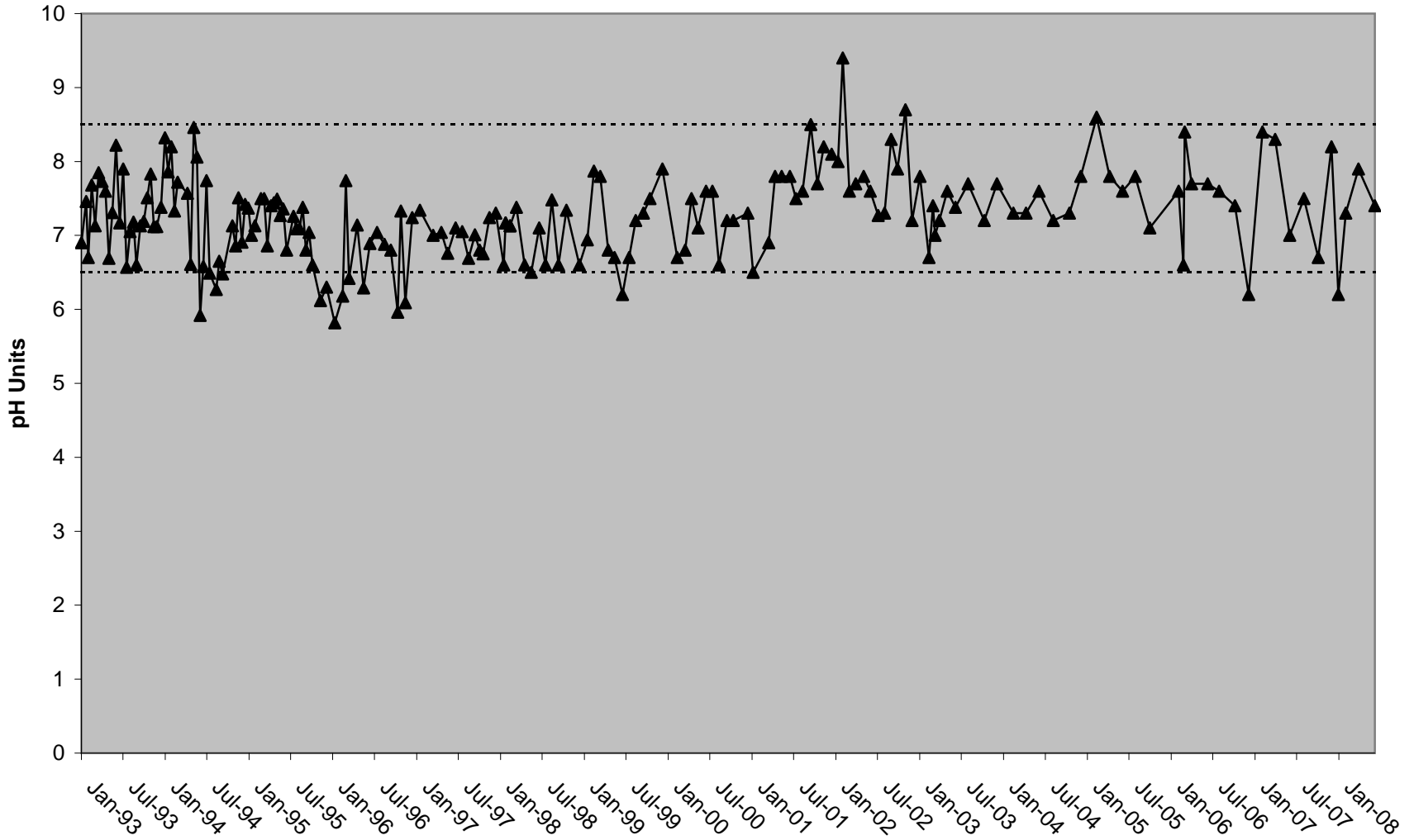
# Nimbus Hardness

— Trendline    △ Below Detection    ▲ Result



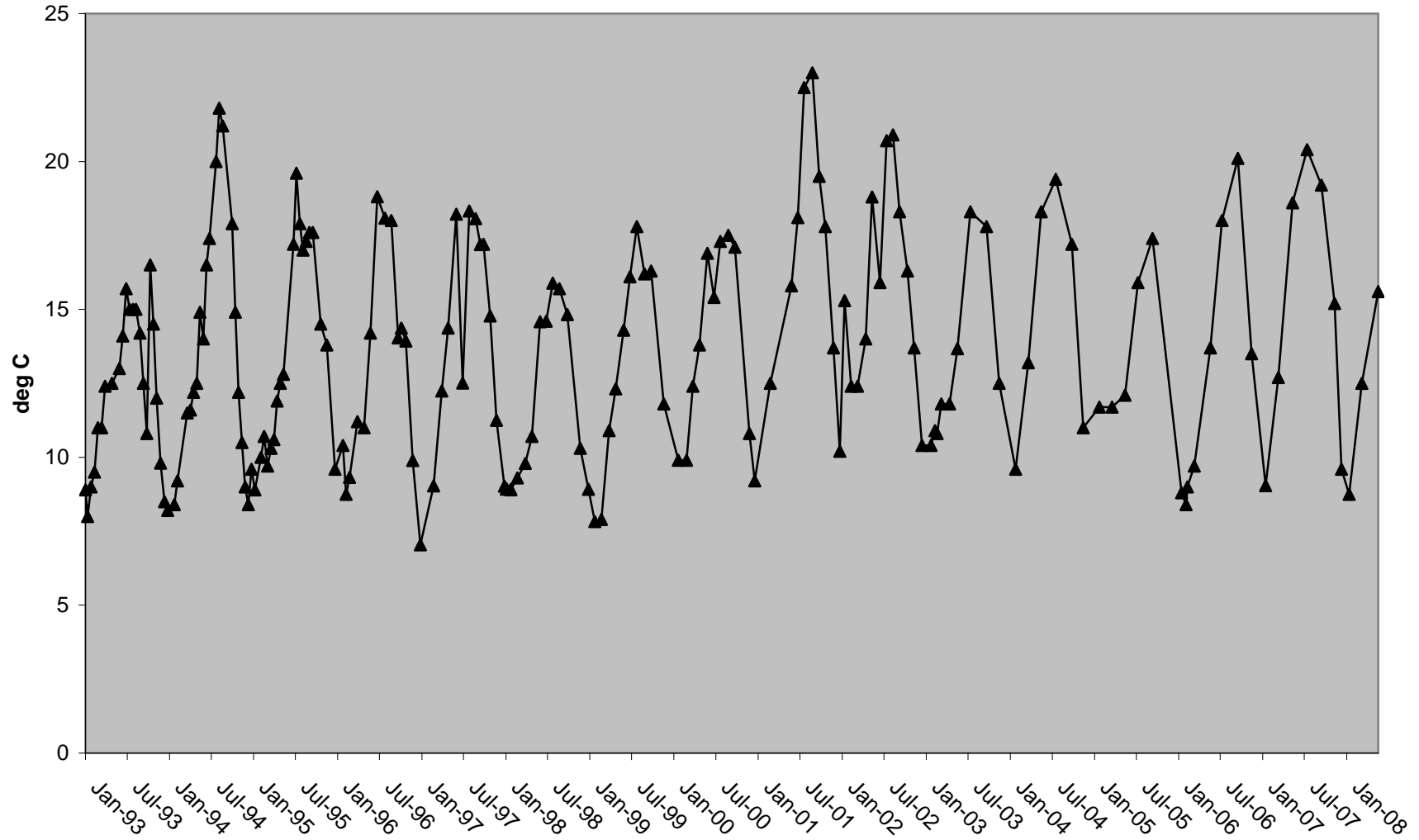
# Nimbus pH

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



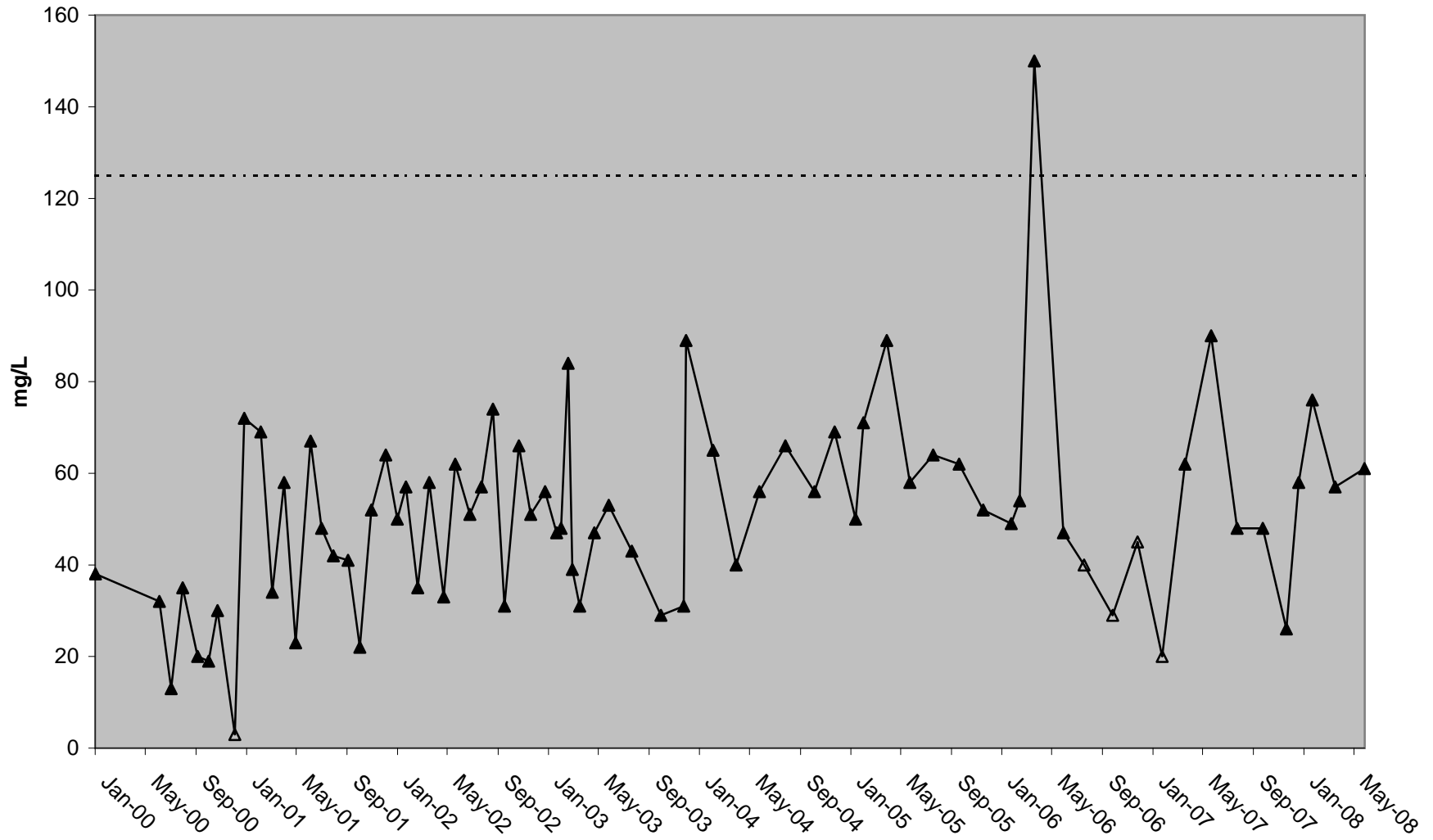
# Nimbus Water Temperature

— Trendline    △ Below Detection    ▲ Result



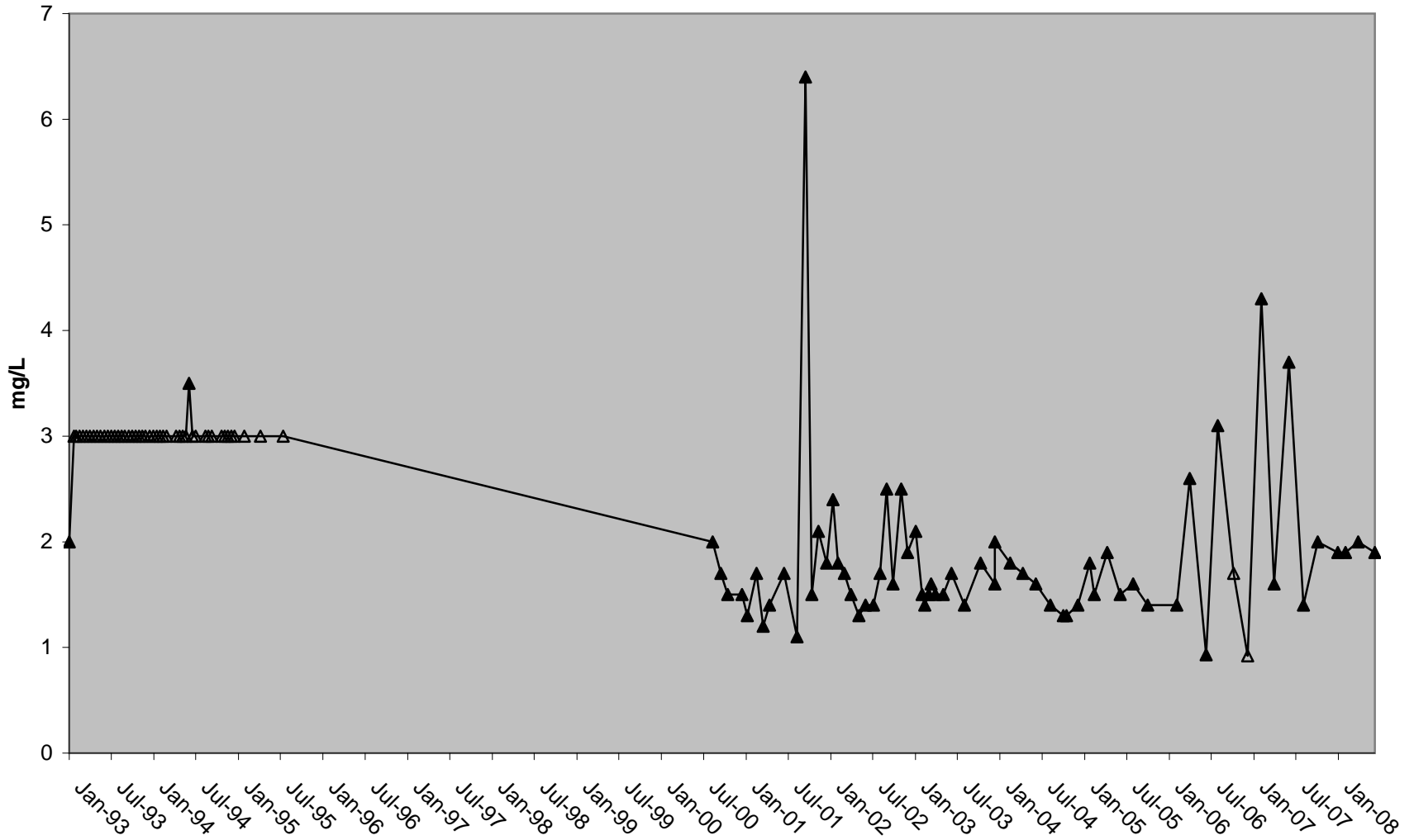
### Nimbus Total Dissolved Solids (TDS)

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objectives



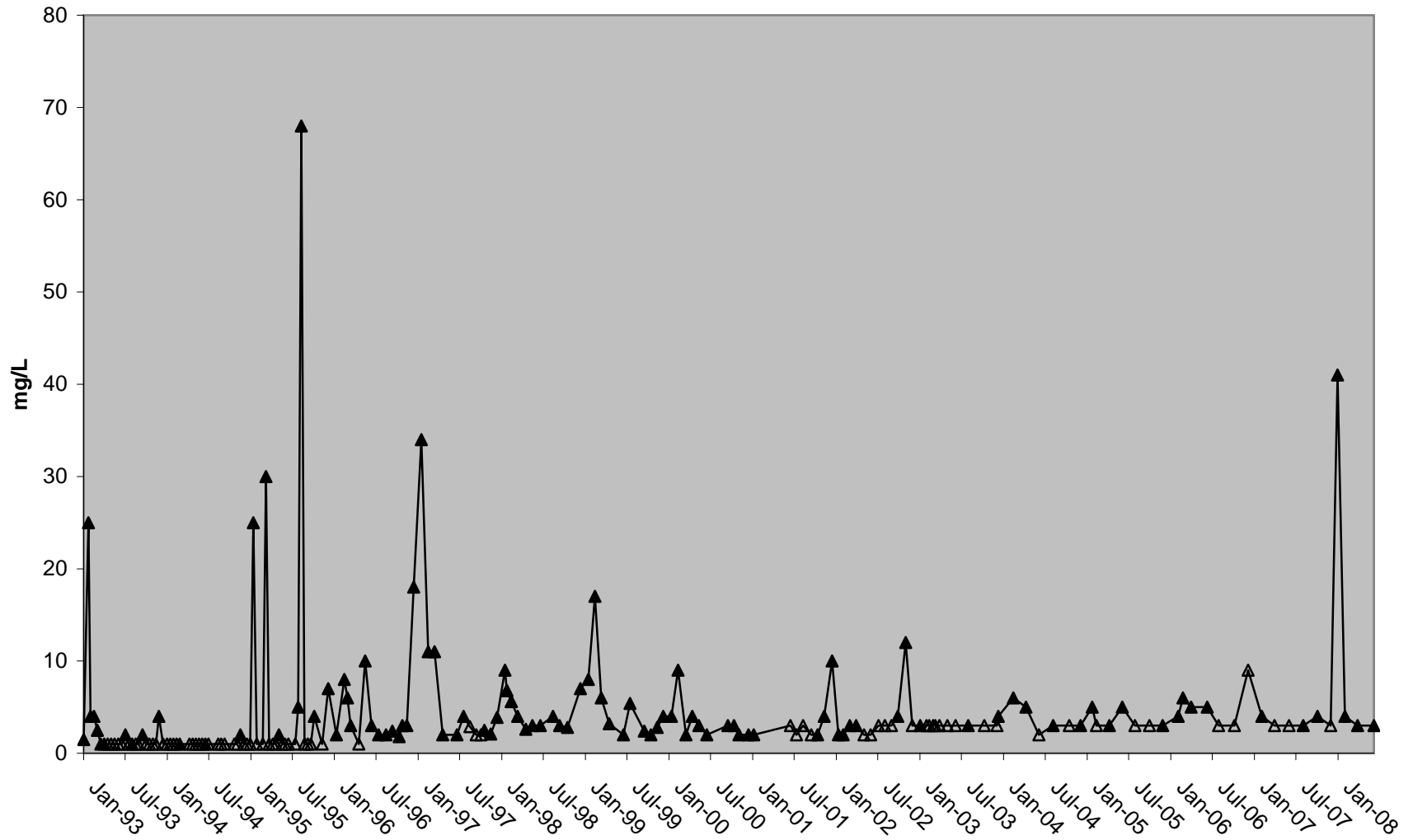
### Nimbus Total Organic Carbon (TOC)

— Trendline    Δ Below Detection    ▲ Result



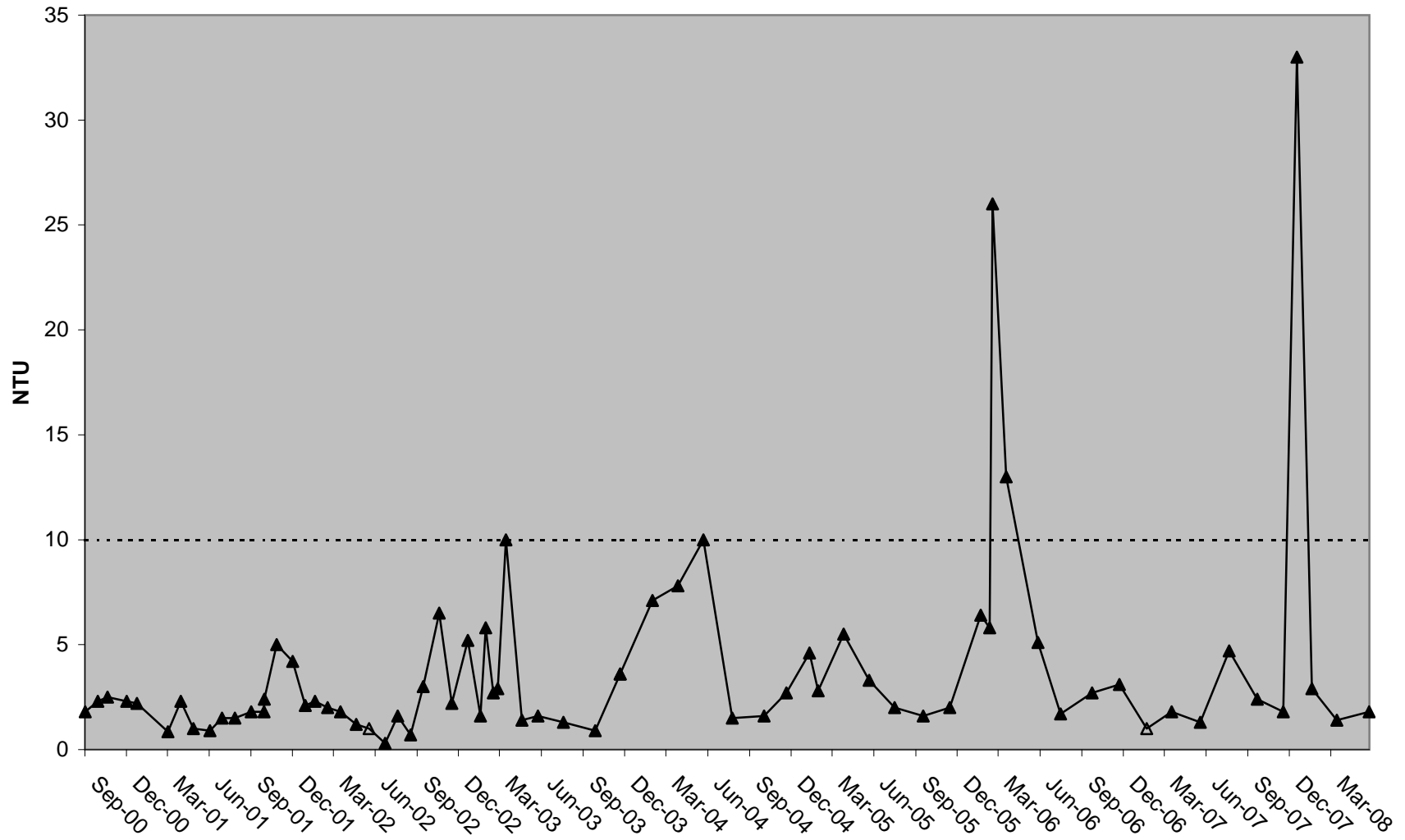
### Nimbus Total Suspended Solids (TSS)

— Trendline    △ Below Detection    ▲ Result



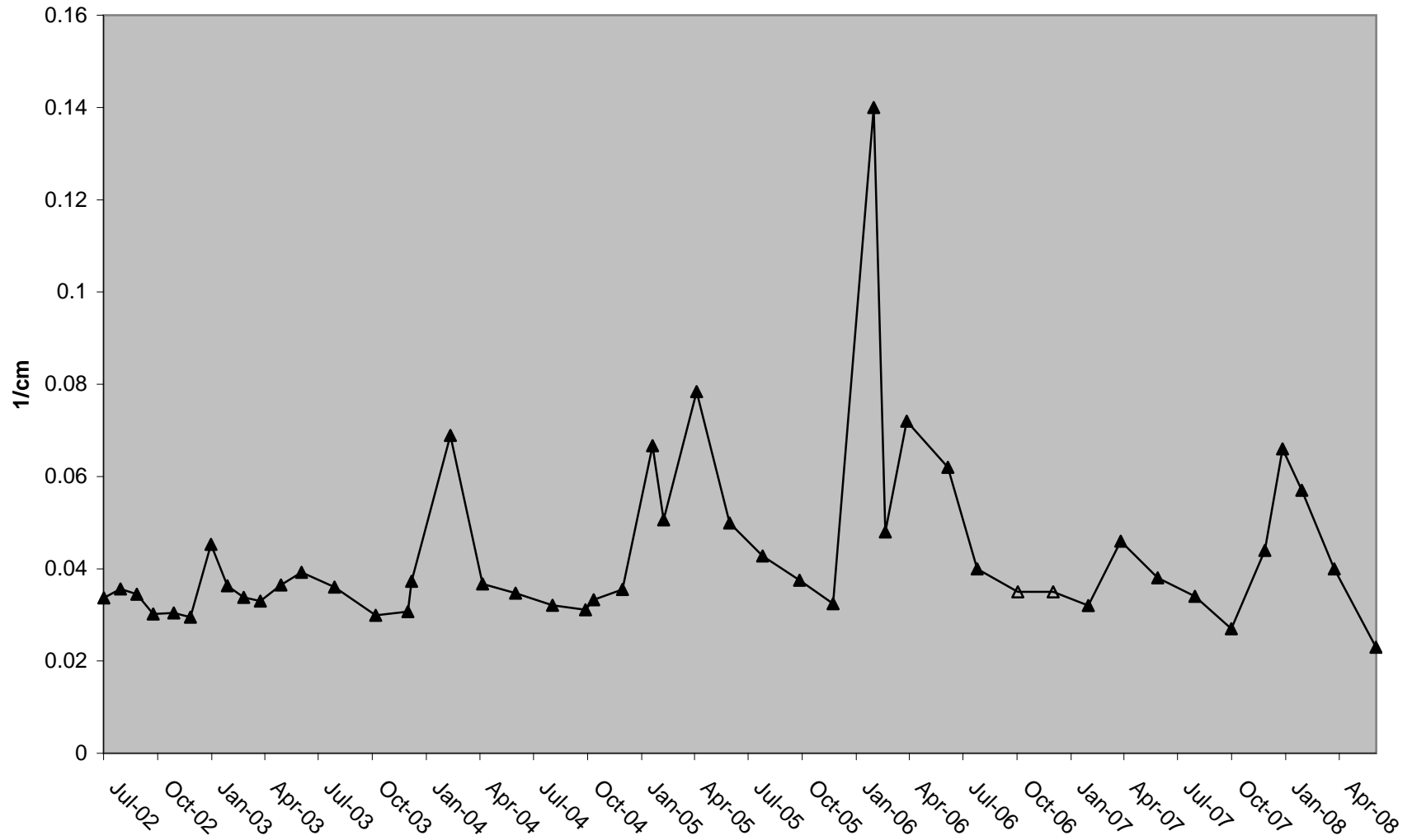
# Nimbus Turbidity

— Trendline    ▲ Below Detection    ▲ Result    - - - - - Lowest Objective



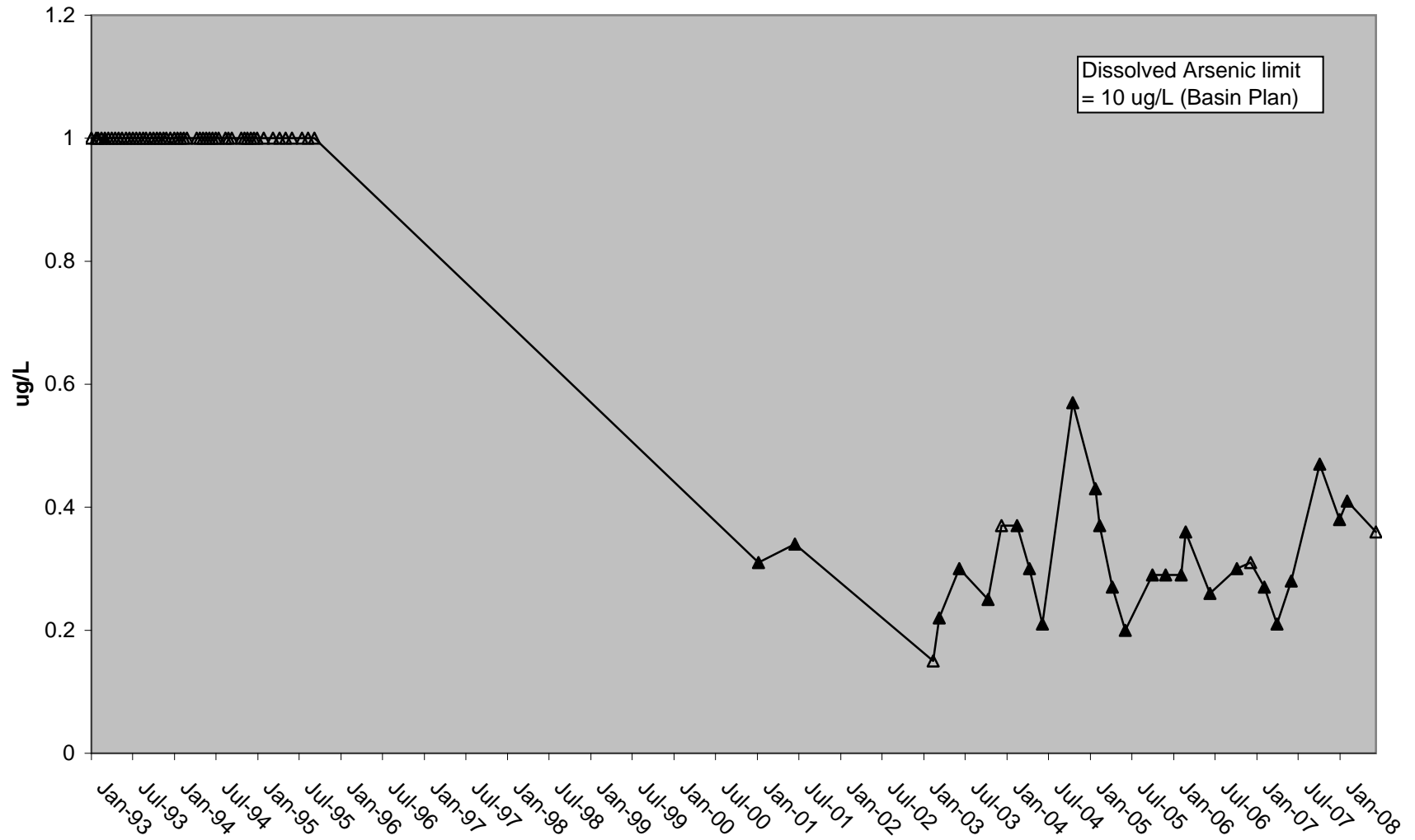
# Nimbus UVA 254

— Trendline    △ Below Detection    ▲ Result



### Nimbus Dissolved Arsenic (As-d)

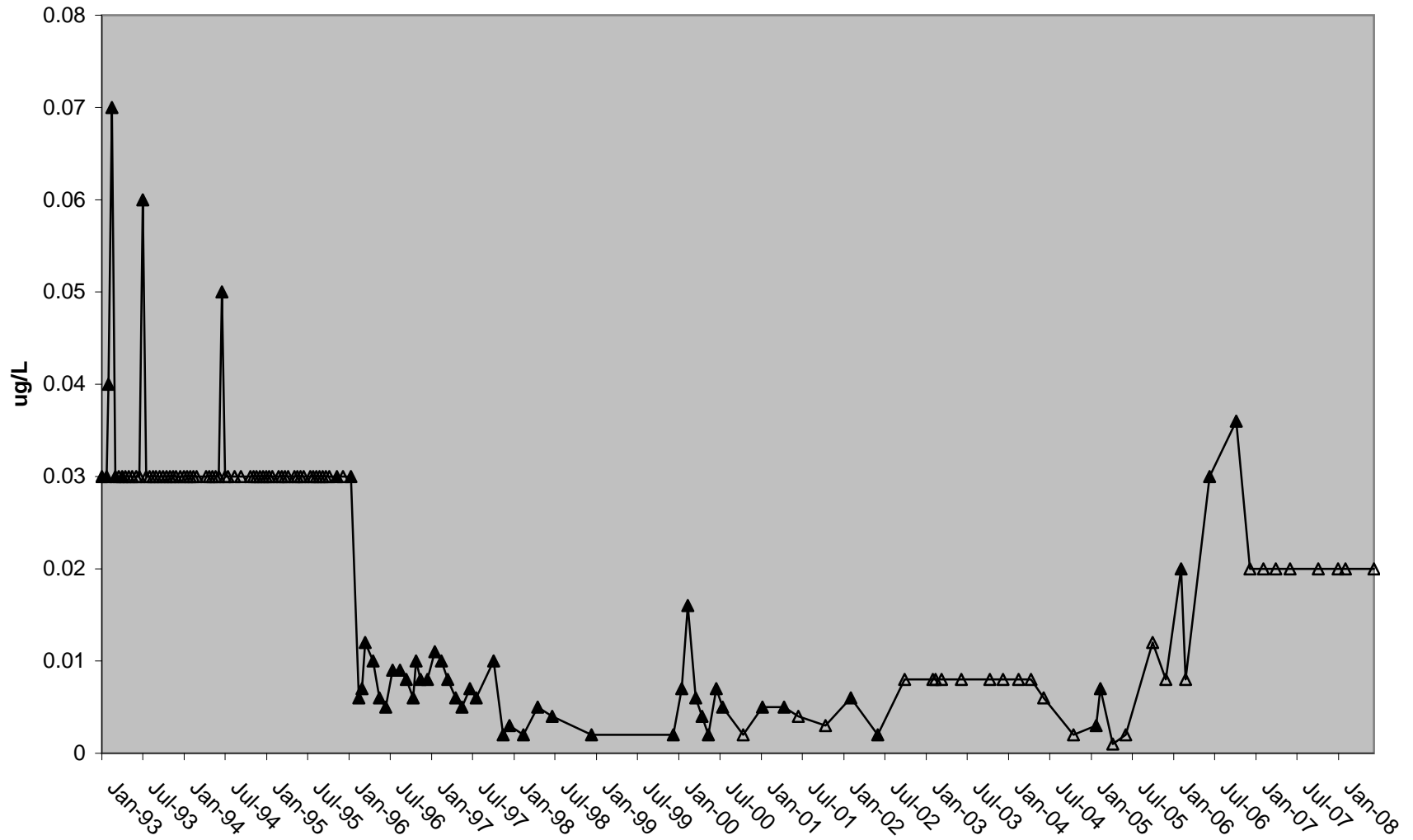
— Trendline    △ Below Detection    ▲ Result



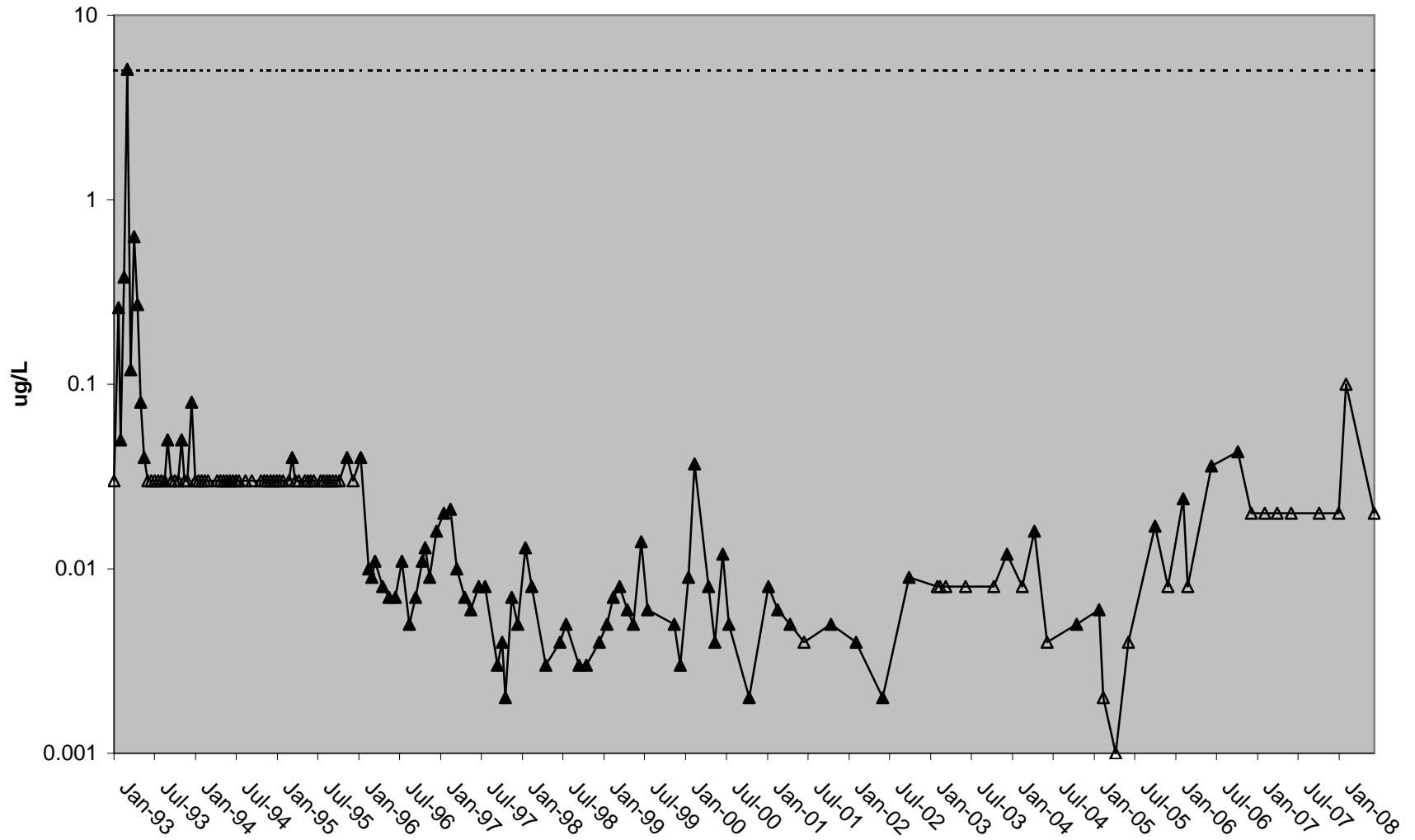
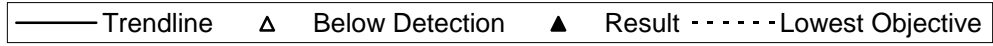


### Nimbus Dissolved Cadmium (Cd-d)

— Trendline    Δ Below Detection    ▲ Result

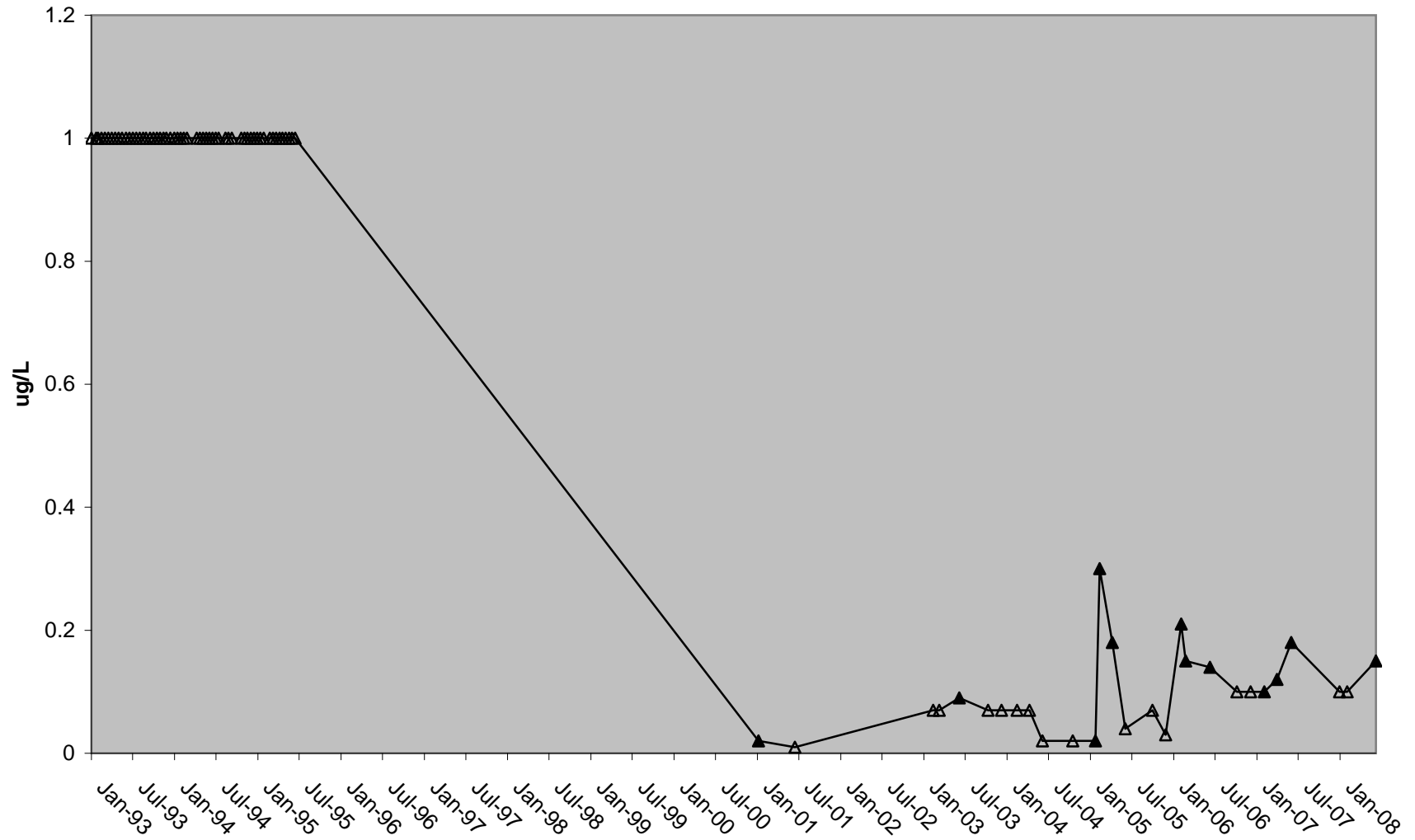


### Nimbus Total Cadmium (Cd-T)



### Nimbus Dissolved Chromium (Cr-d)

— Trendline    △ Below Detection    ▲ Result

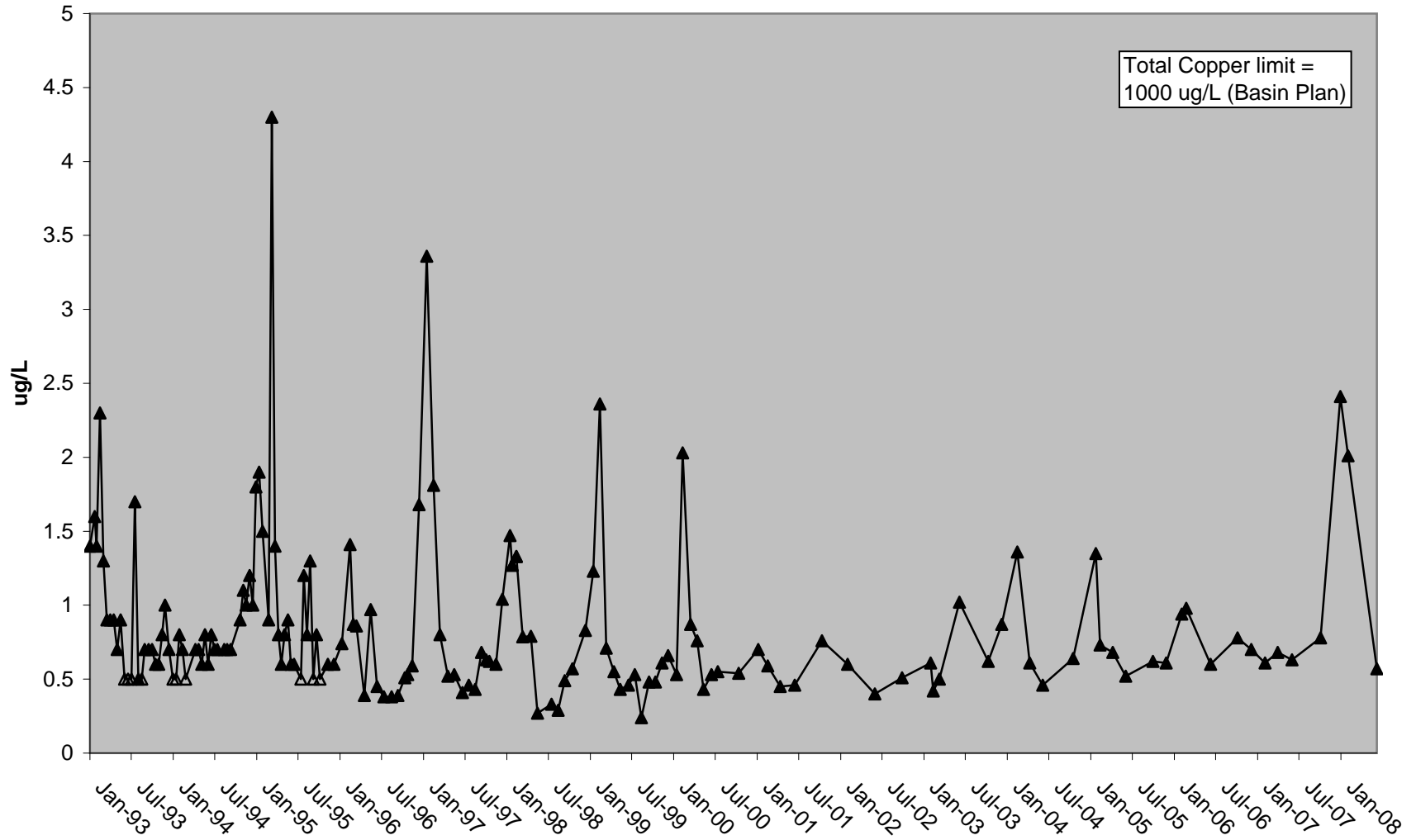






### Nimbus Total Copper (Cu-T)

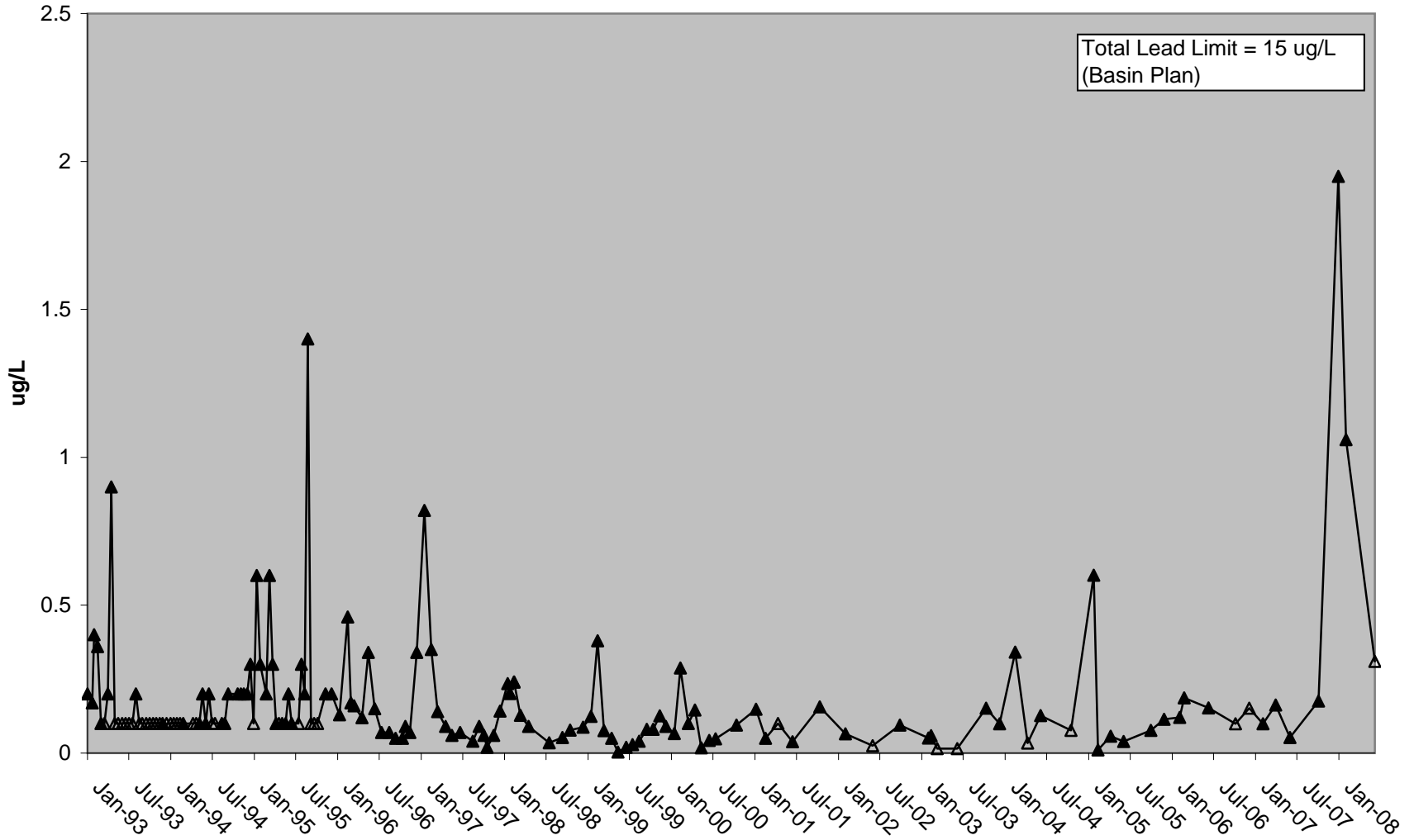
— Trendline    △ Below Detection    ▲ Result





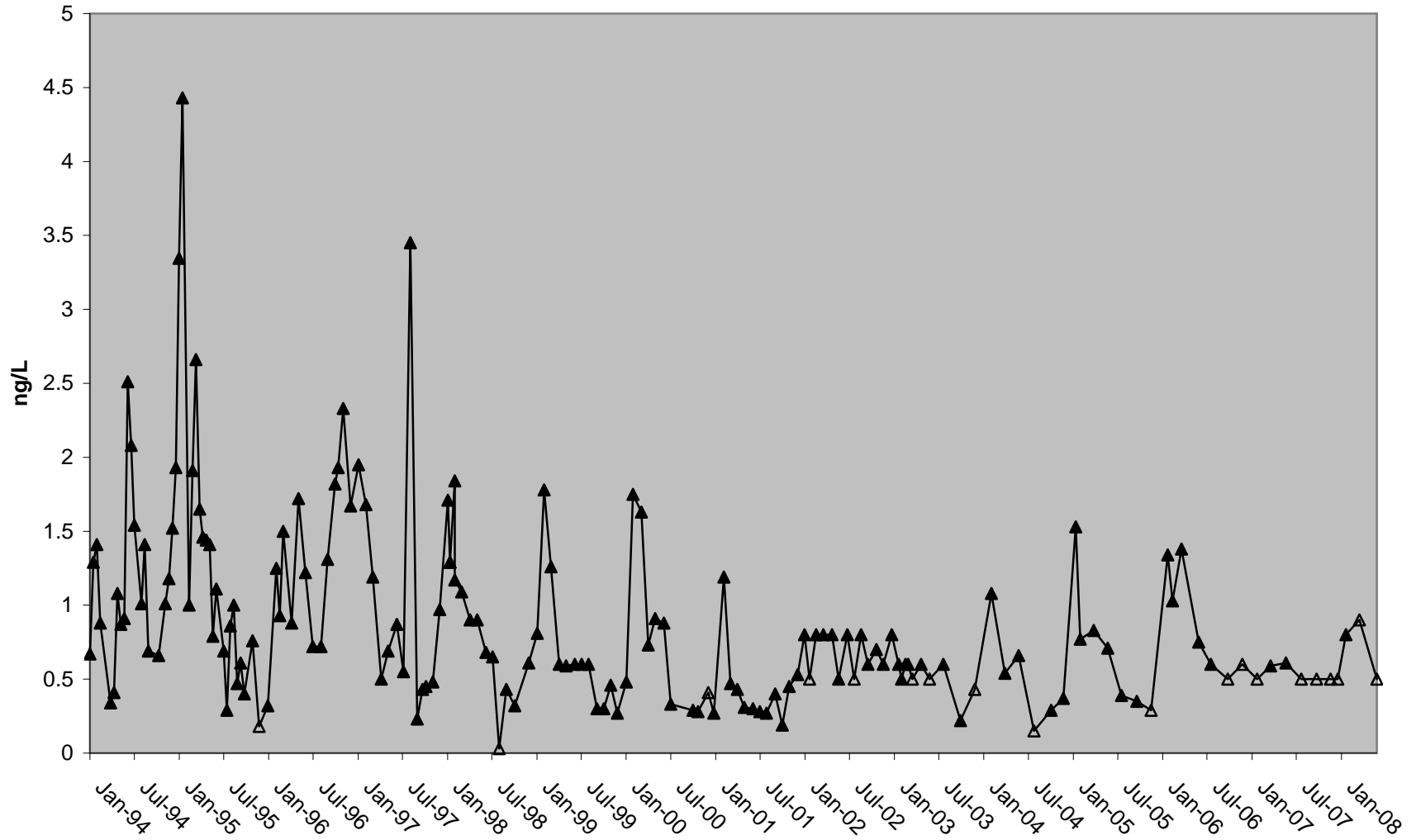
### Nimbus Total Lead (Pb-T)

— Trendline    Δ Below Detection    ▲ Result



### Nimbus Filtered Mercury (Hg-f)

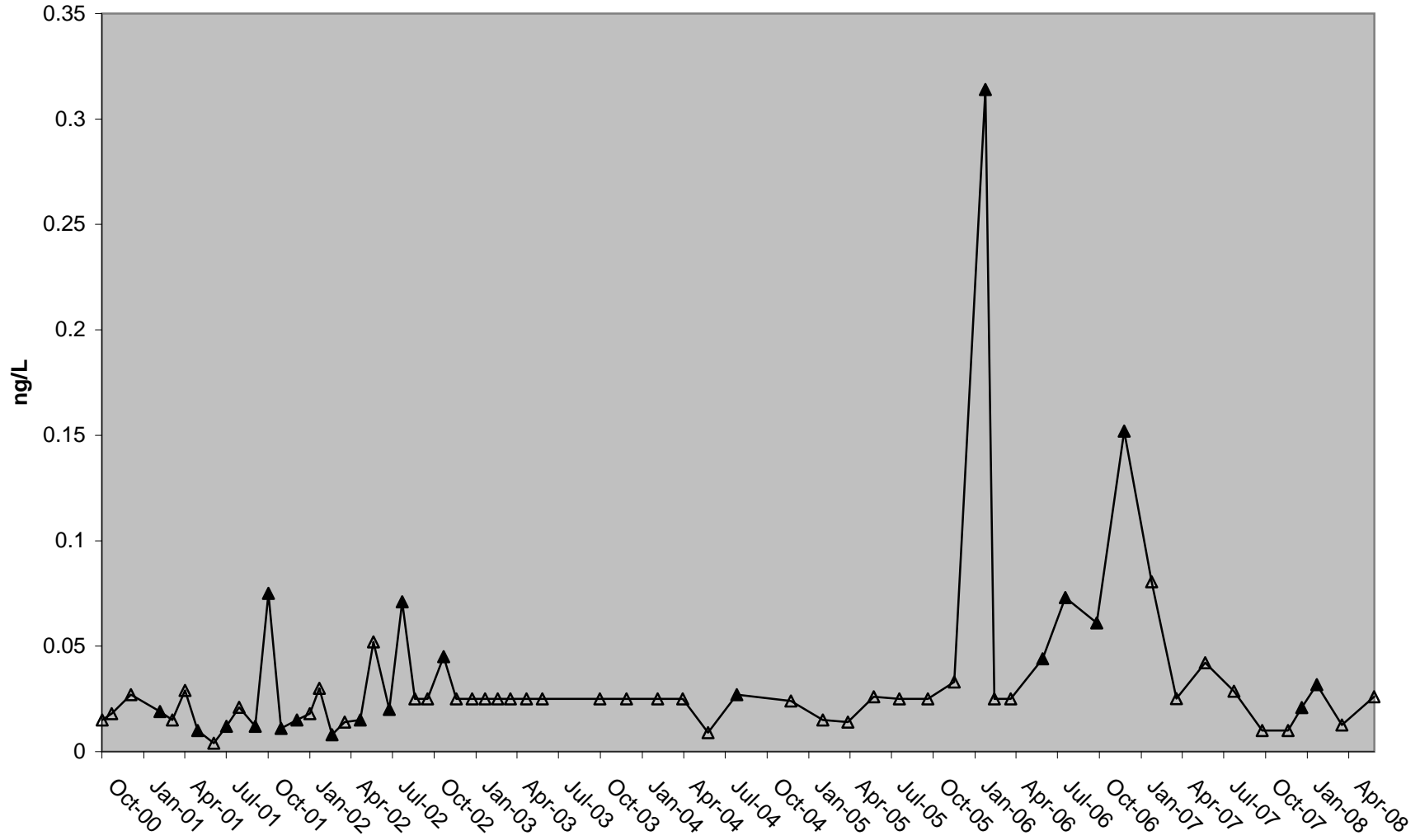
— Trendline    △ Below Detection    ▲ Result





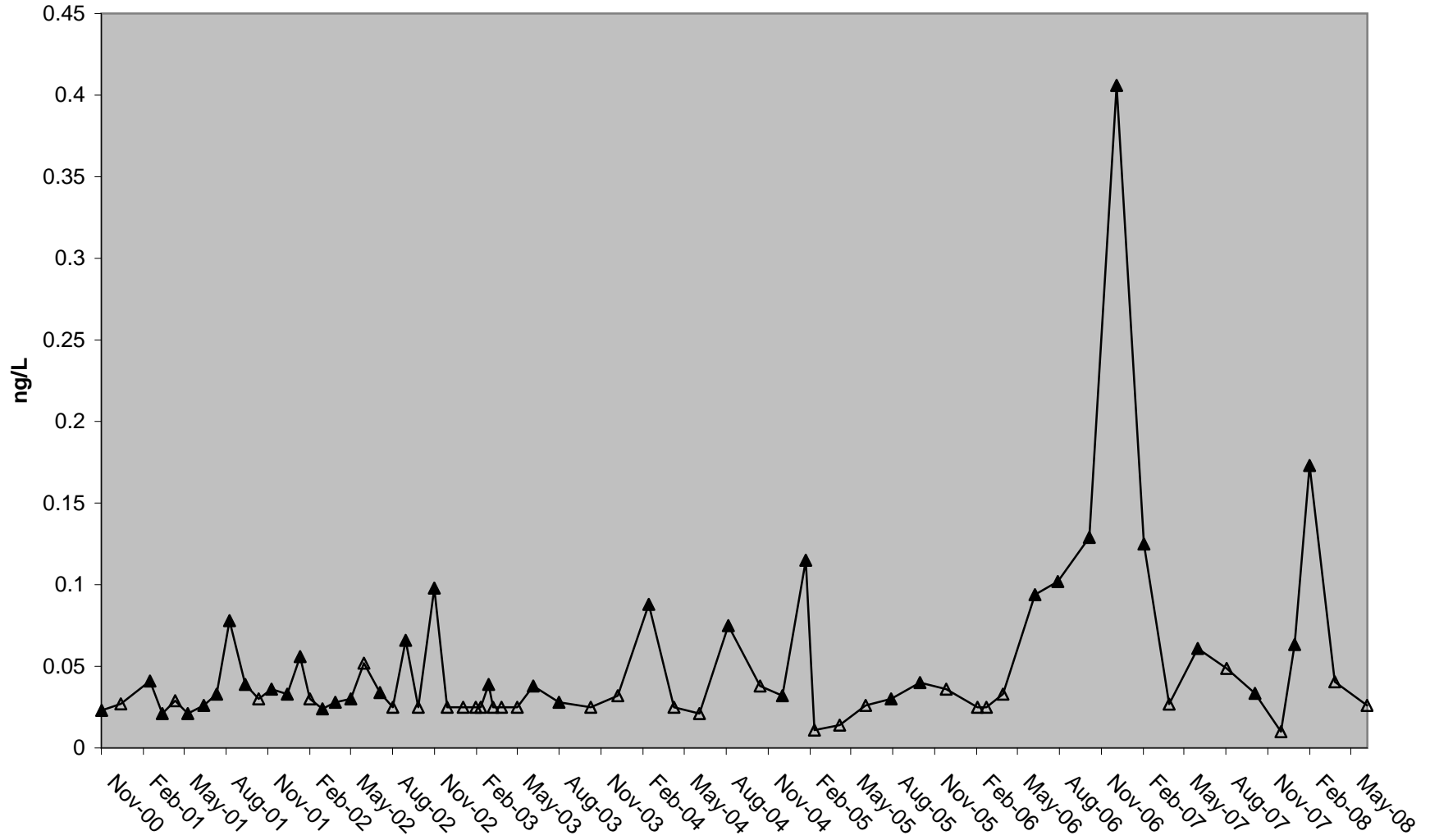
### Nimbus Filtered Methyl Mercury

— Trendline    △ Below Detection    ▲ Result



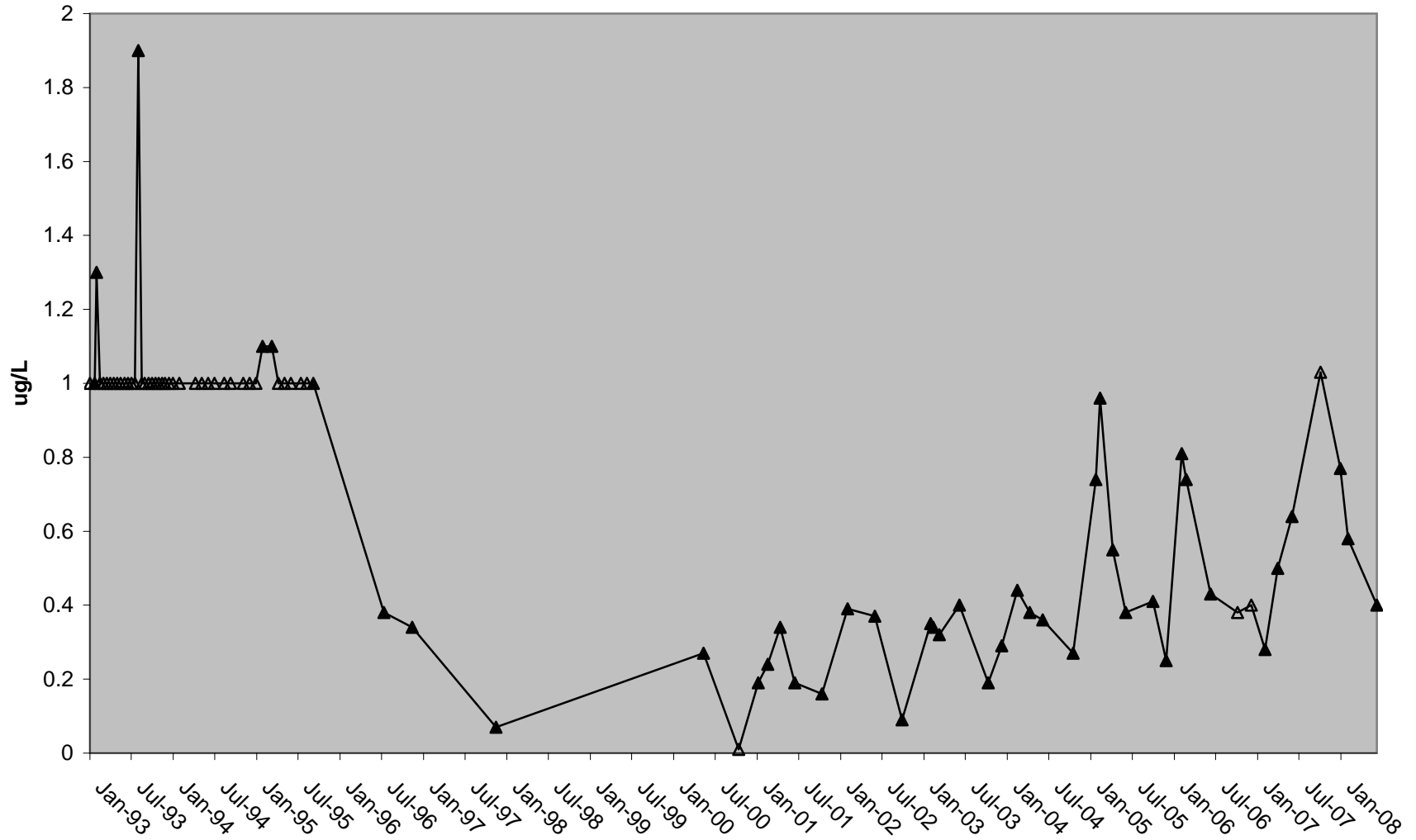
### Nimbus Unfiltered Methyl Mercury

— Trendline    △ Below Detection    ▲ Result



### Nimbus Dissolved Nickel (Ni-d)

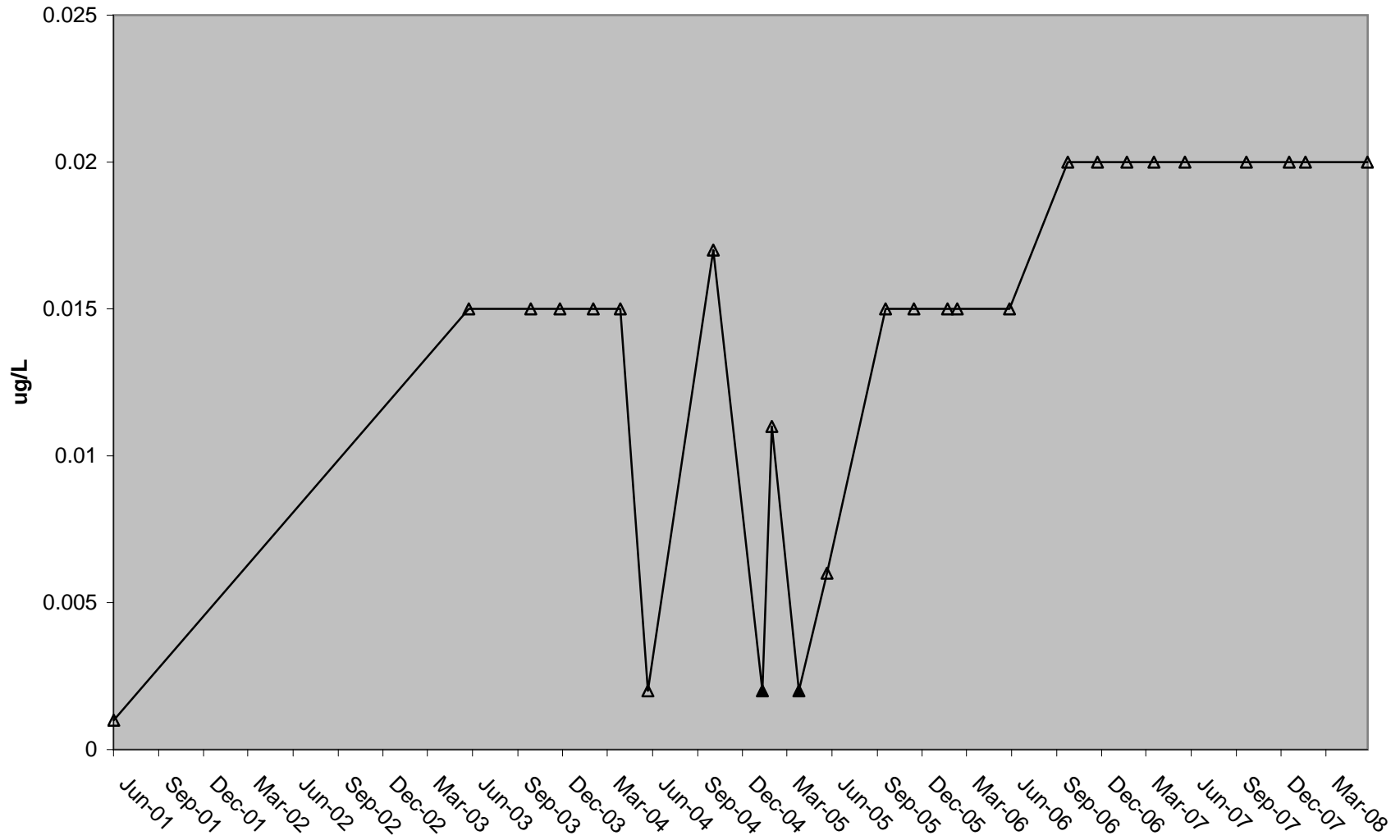
— Trendline    △ Below Detection    ▲ Result





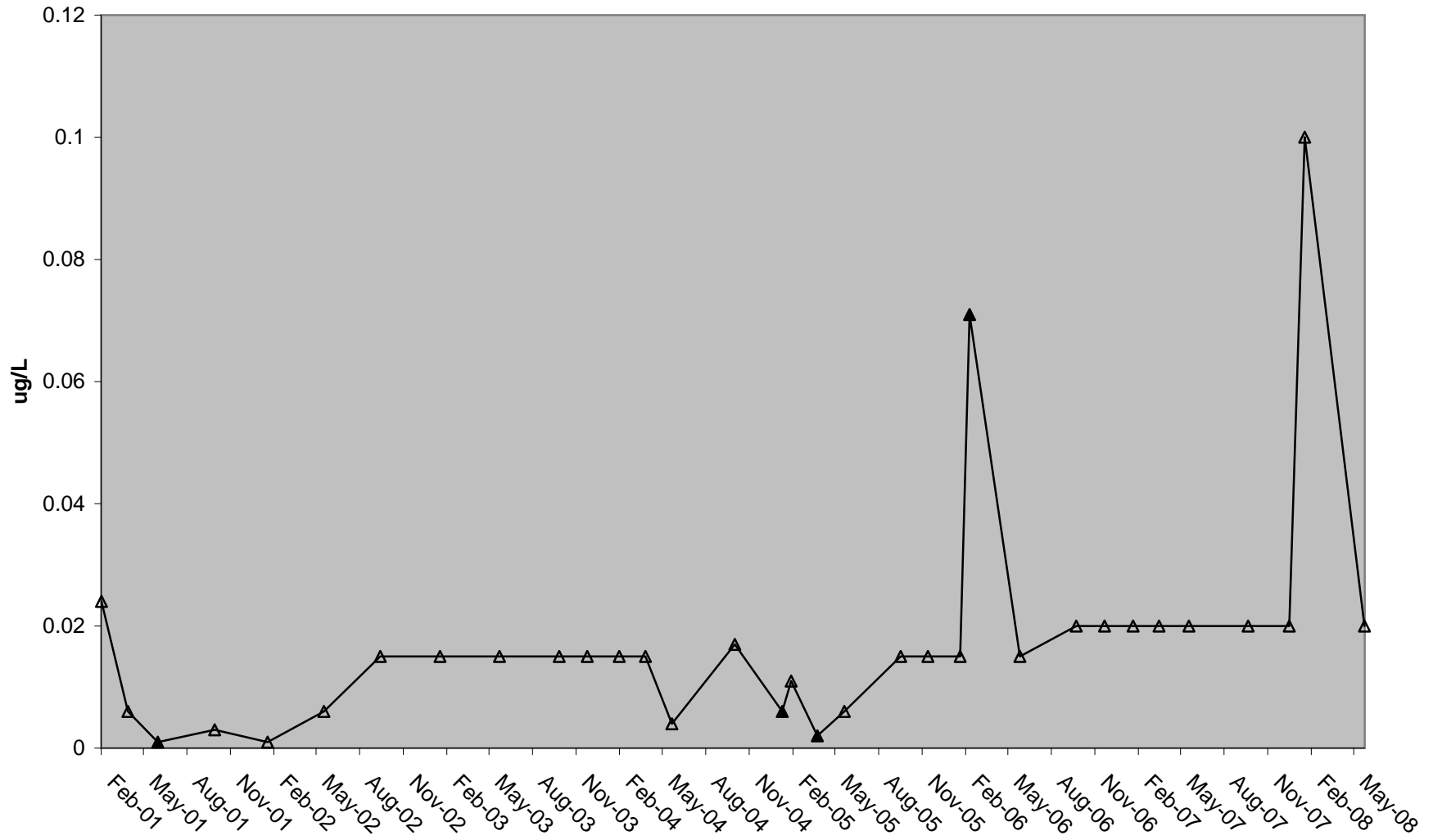
### Nimbus Dissolved Silver (Ag-d)

— Trendline    △ Below Detection    ▲ Result



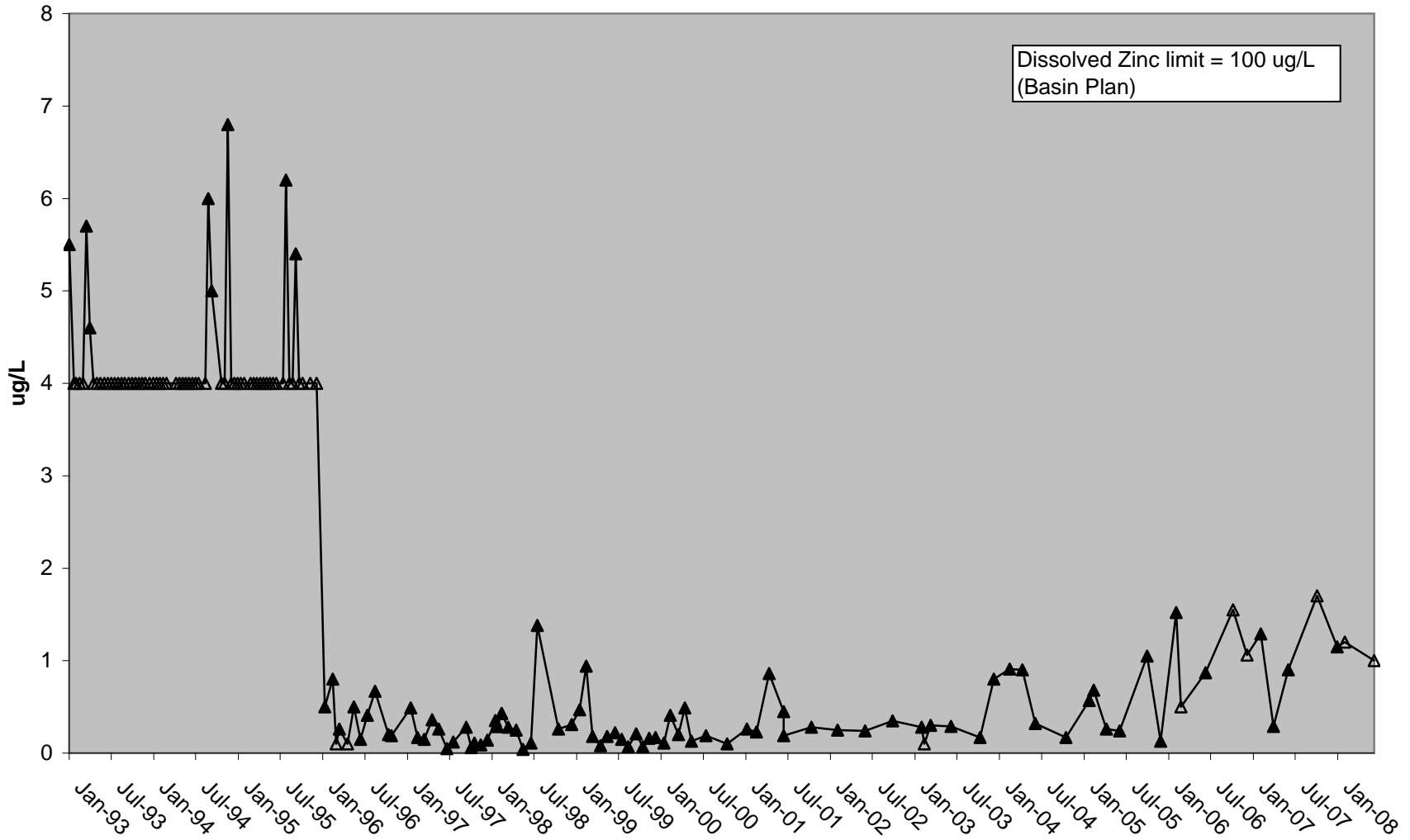
### Nimbus Total Silver (Ag-t)

— Trendline    Δ Below Detection    ▲ Result



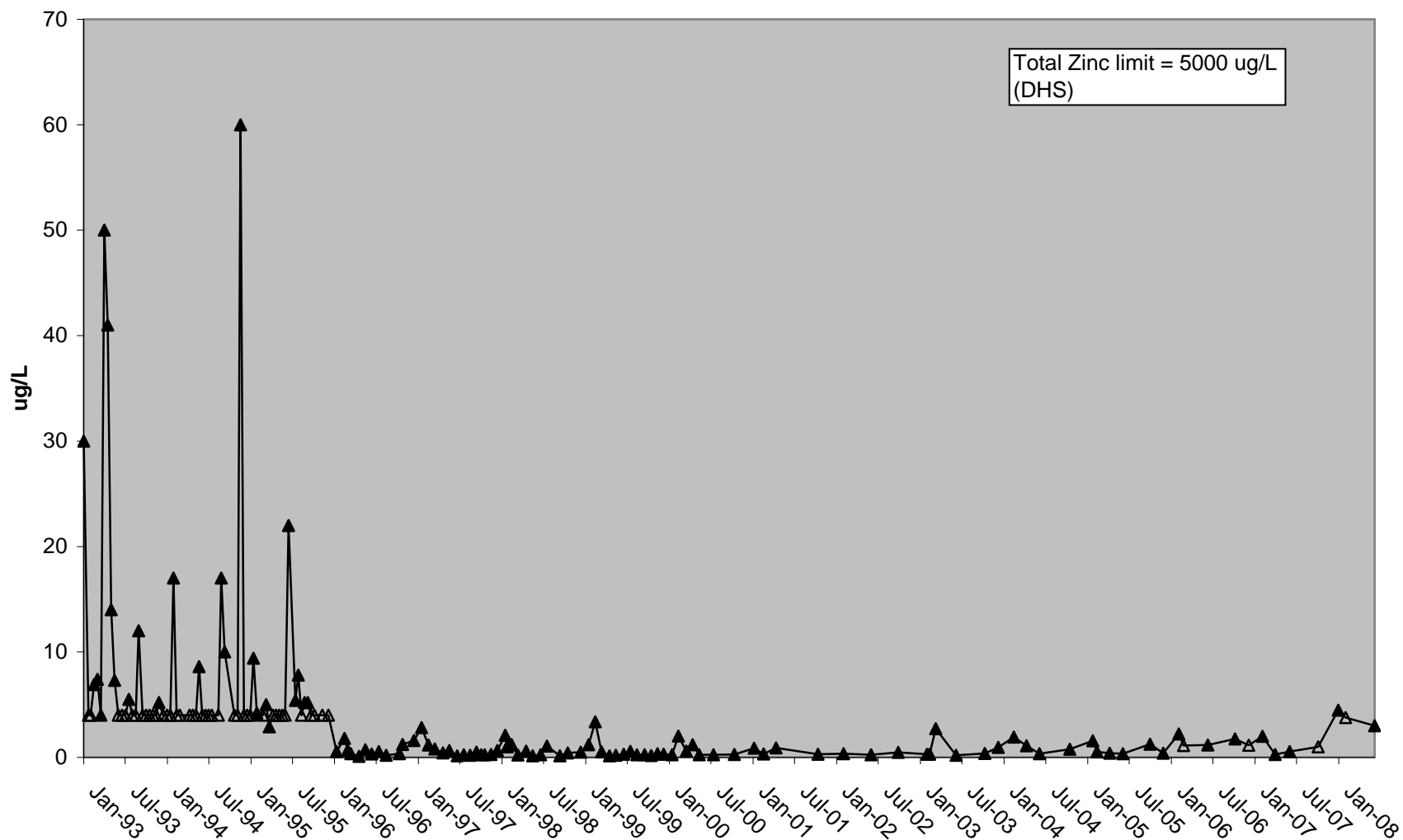
# Nimbus Dissolved Zinc (Zn-d)

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



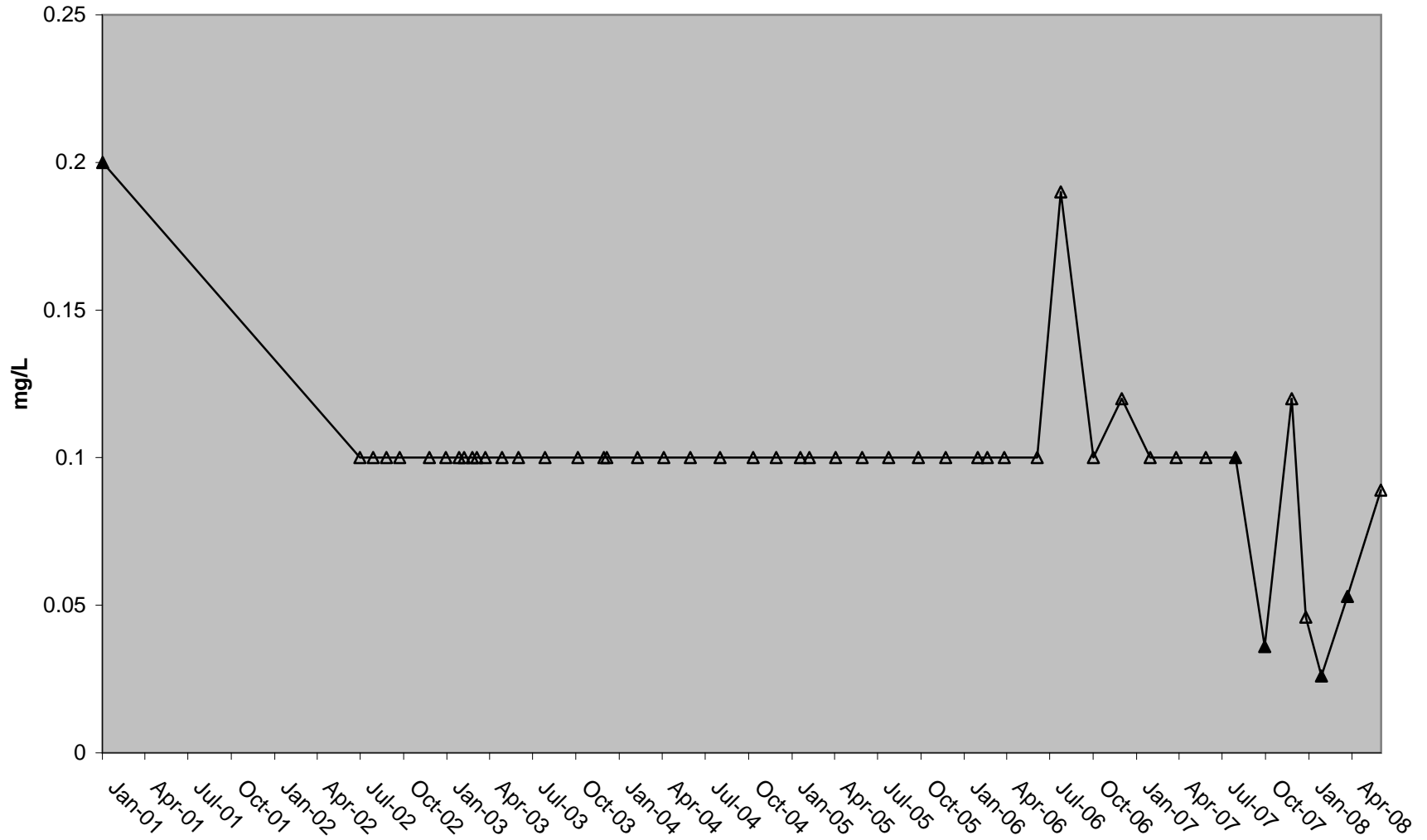
### Nimbus Total Zinc (Zn-T)

— Trendline    △ Below Detection    ▲ Result



### Nimbus Ammonia (NH<sub>3</sub>-N)

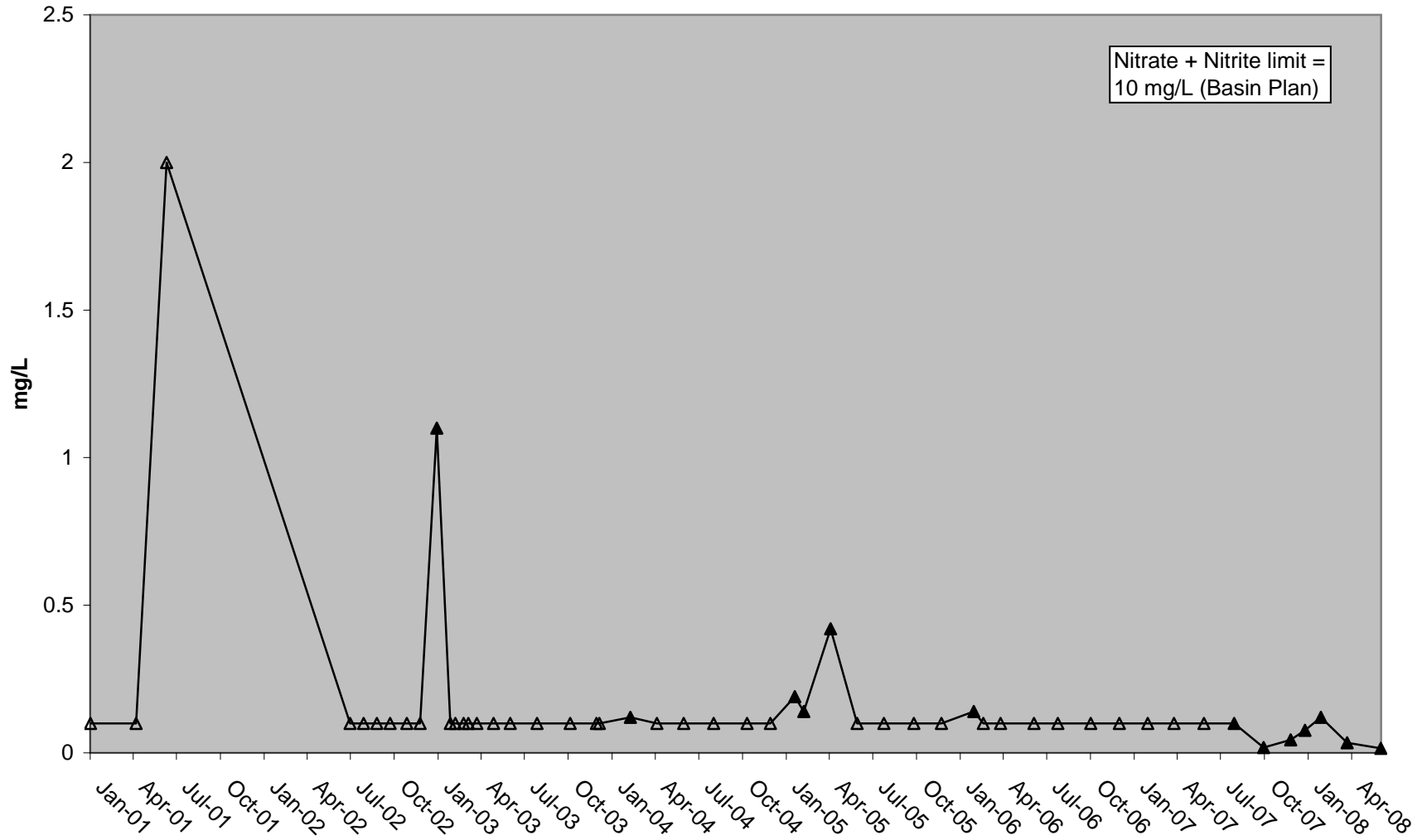
— Trendline    Δ Below Detection    ▲ Result



### Nimbus Nitrate (NO<sub>3</sub>-N)

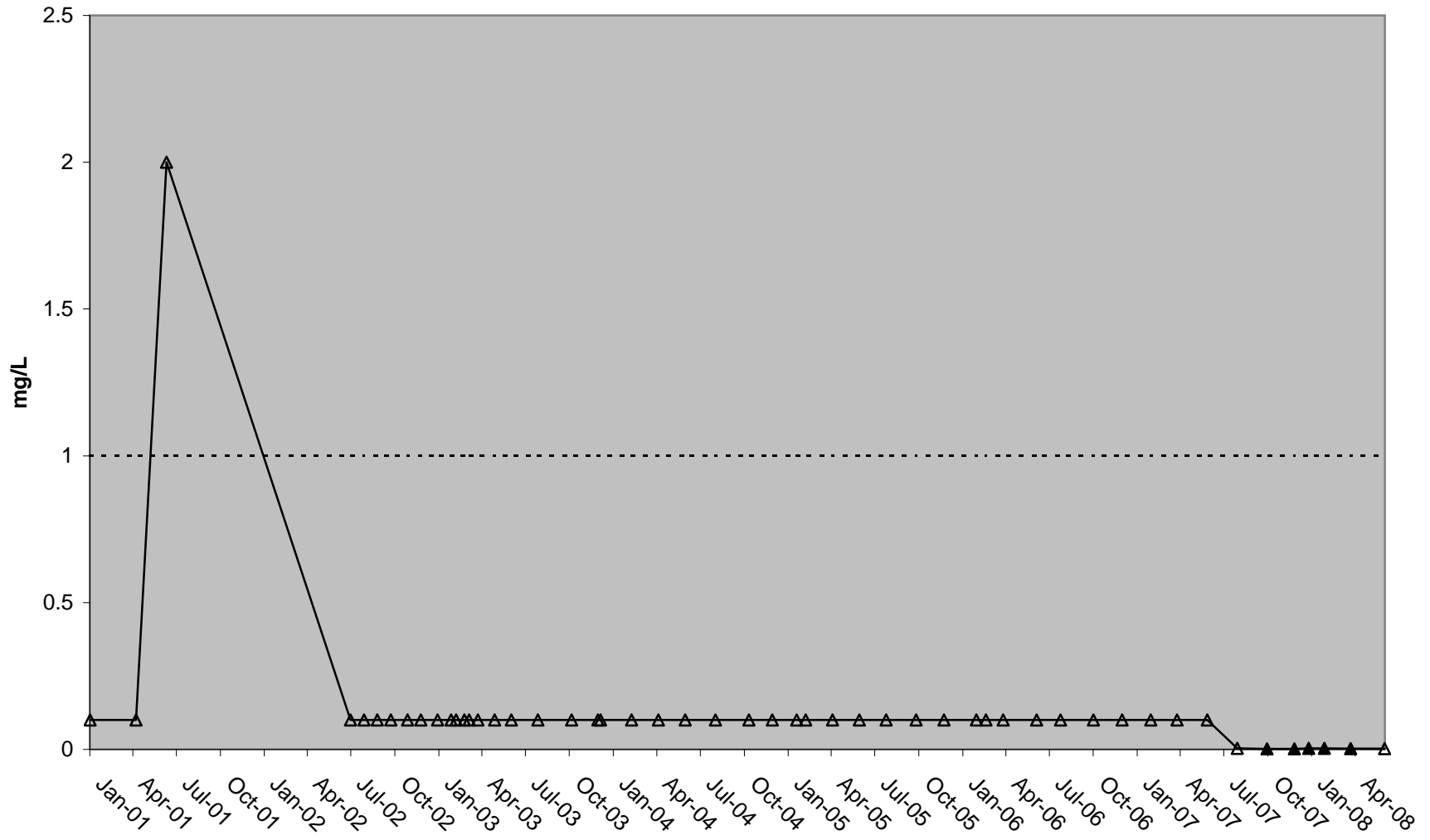
— Trendline    △ Below Detection    ▲ Result

Nitrate + Nitrite limit =  
10 mg/L (Basin Plan)



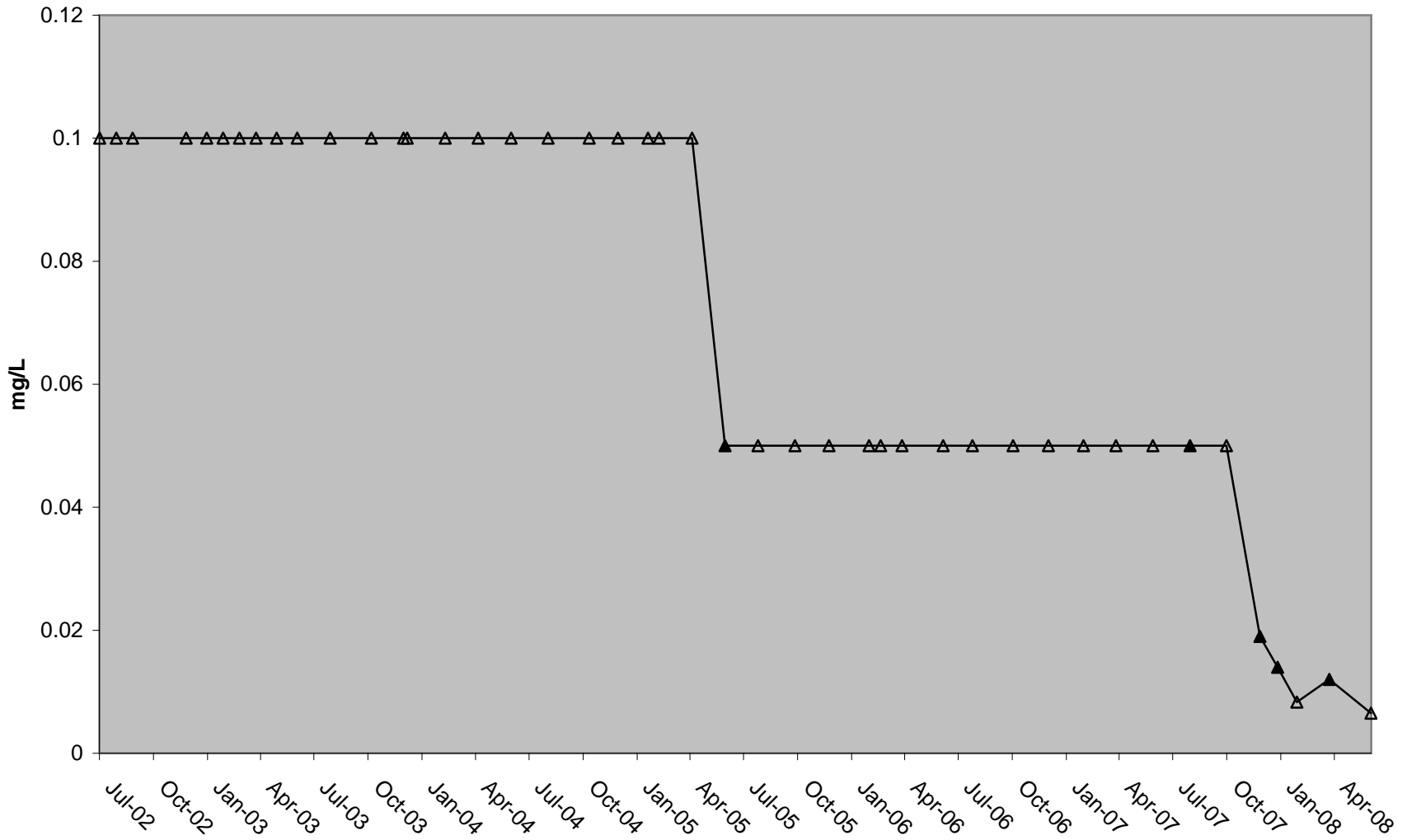
# Nimbus Nitrite (NO<sub>2</sub>-N)

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



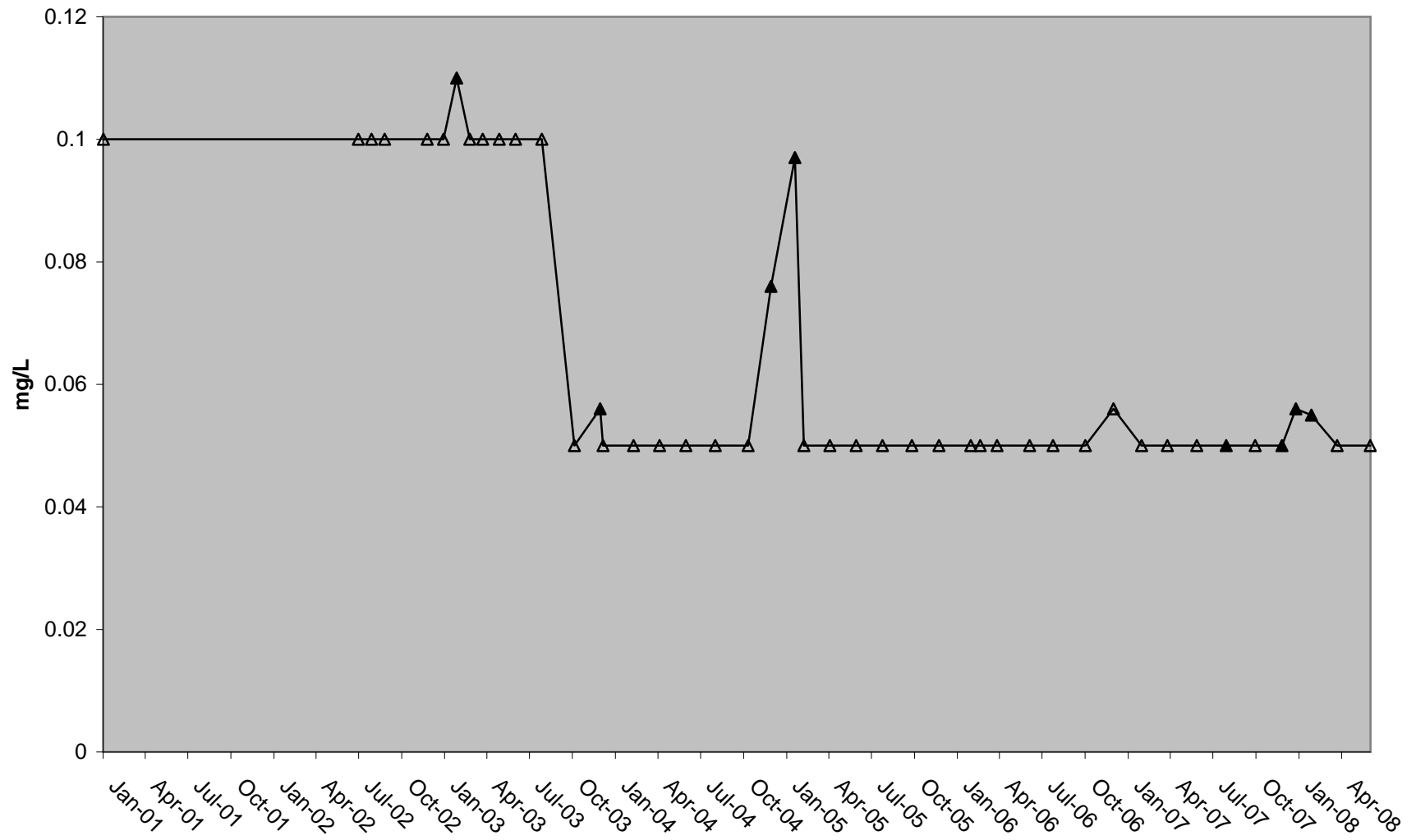
### Nimbus Dissolved Orthophosphate

— Trendline    Δ Below Detection    ▲ Result



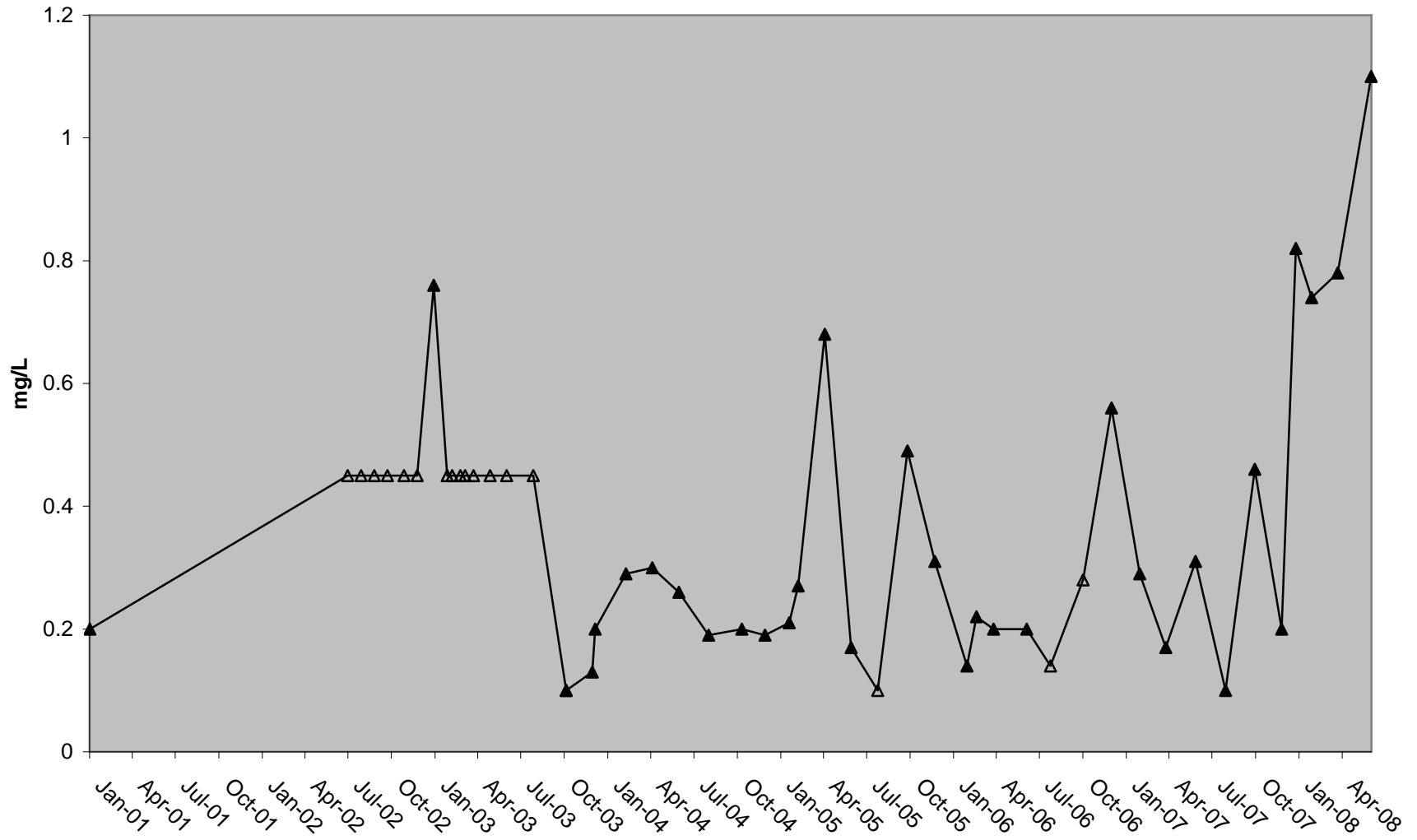
### Nimbus Total Phosphorus (TP)

— Trendline    Δ Below Detection    ▲ Result

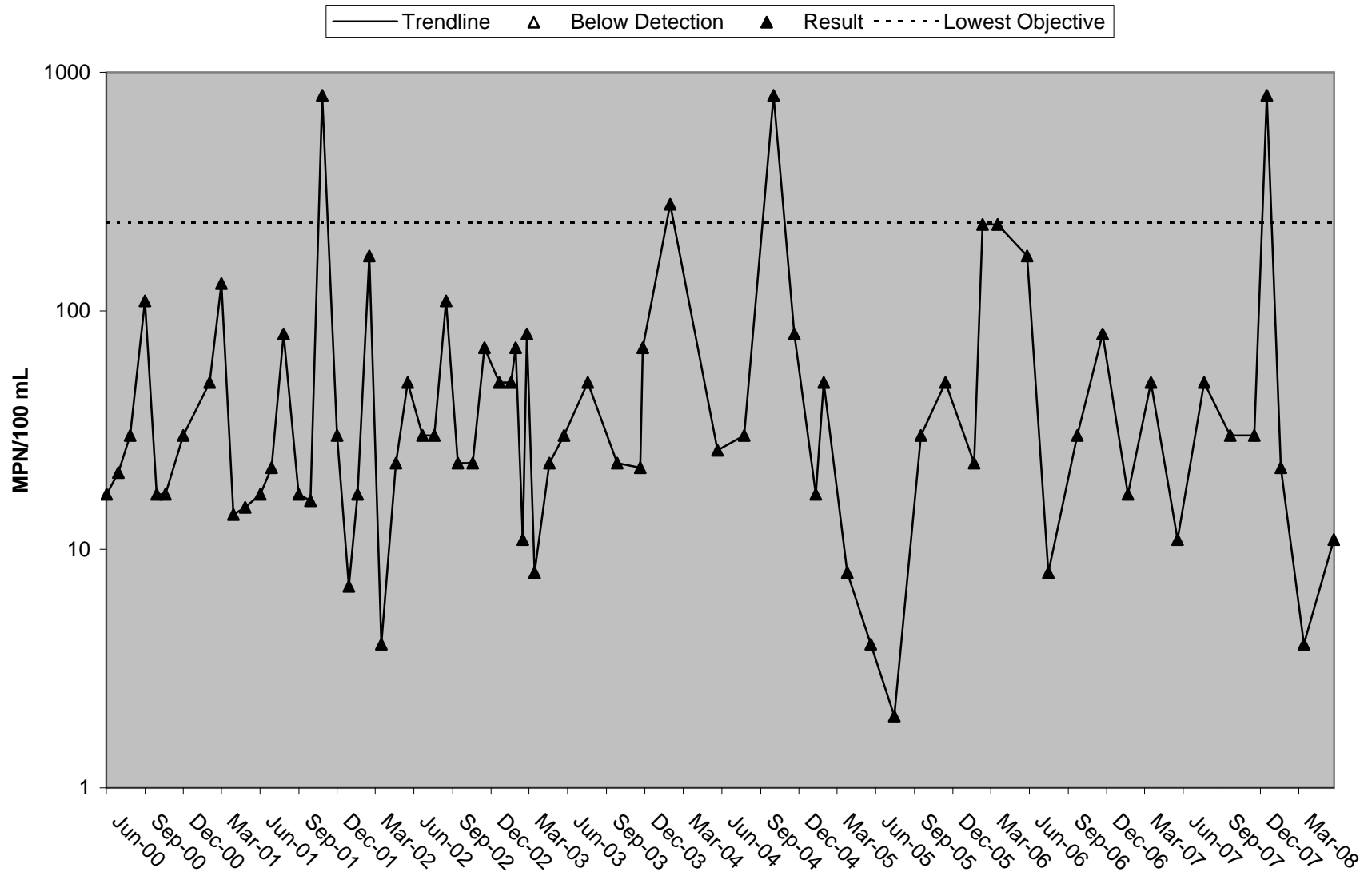


### Nimbus Total Kjeldahl Nitrogen (TKN)

— Trendline    △ Below Detection    ▲ Result

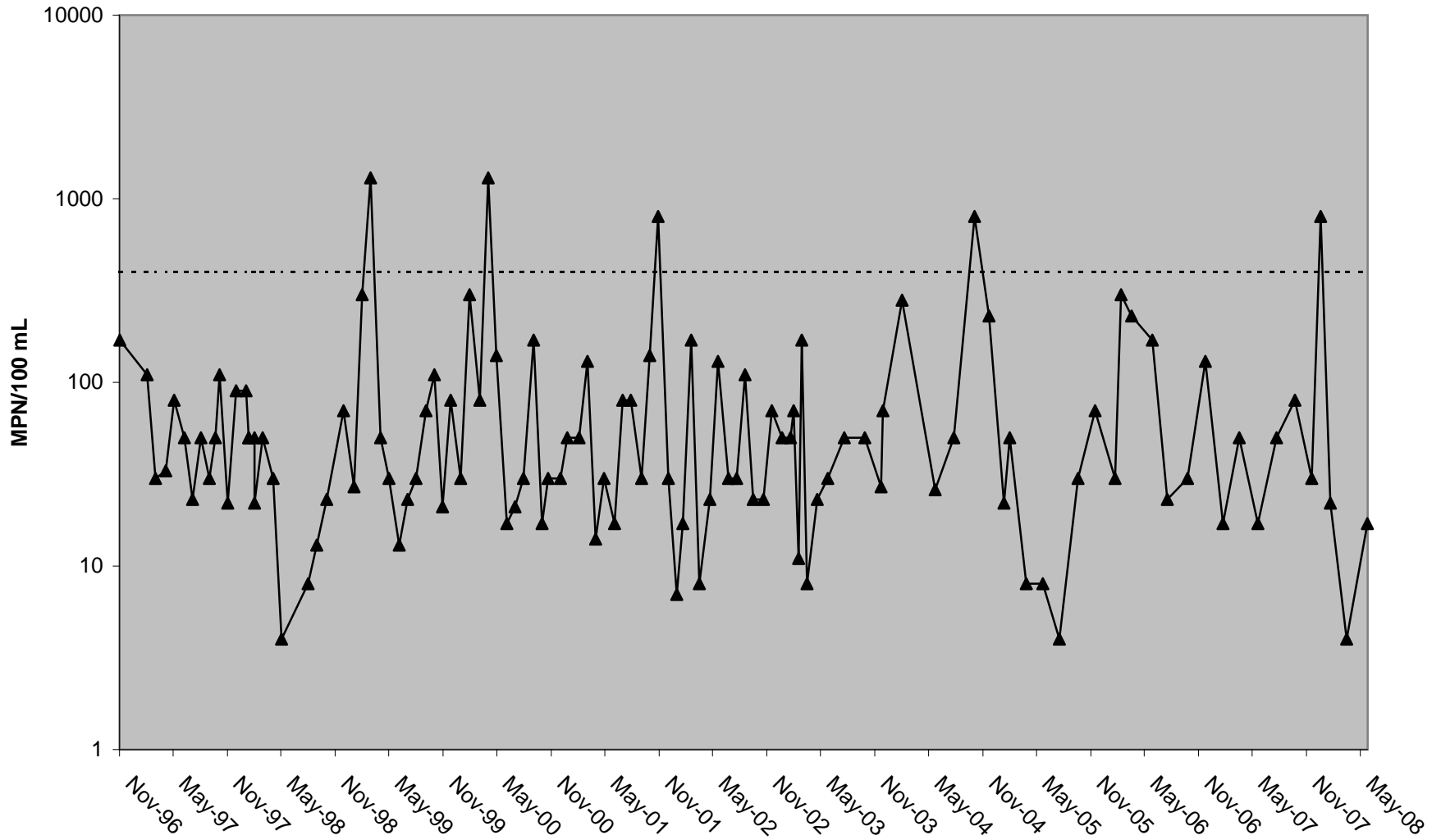


### Nimbus *E. coli*



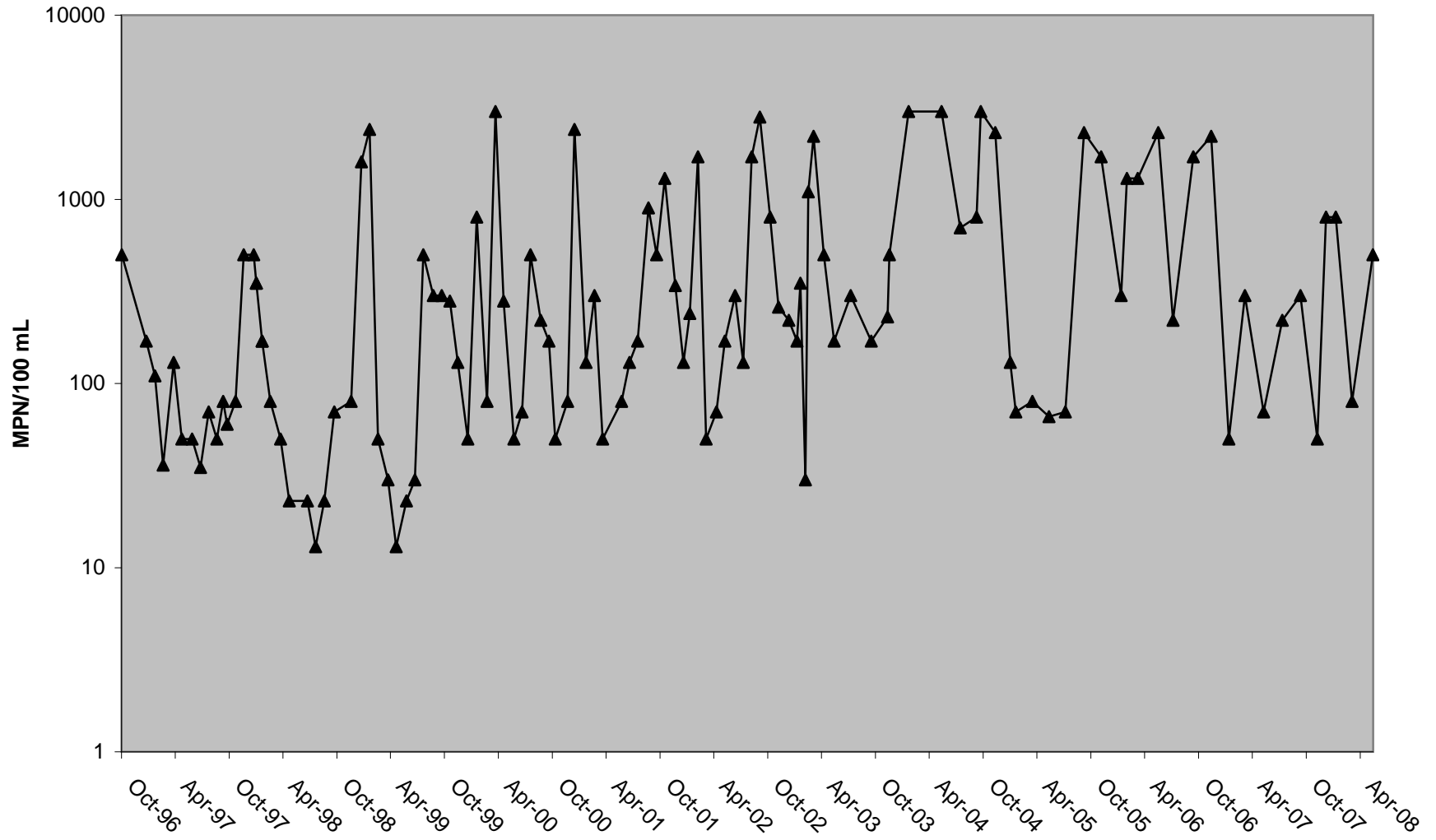
# Nimbus Fecal Coliform

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



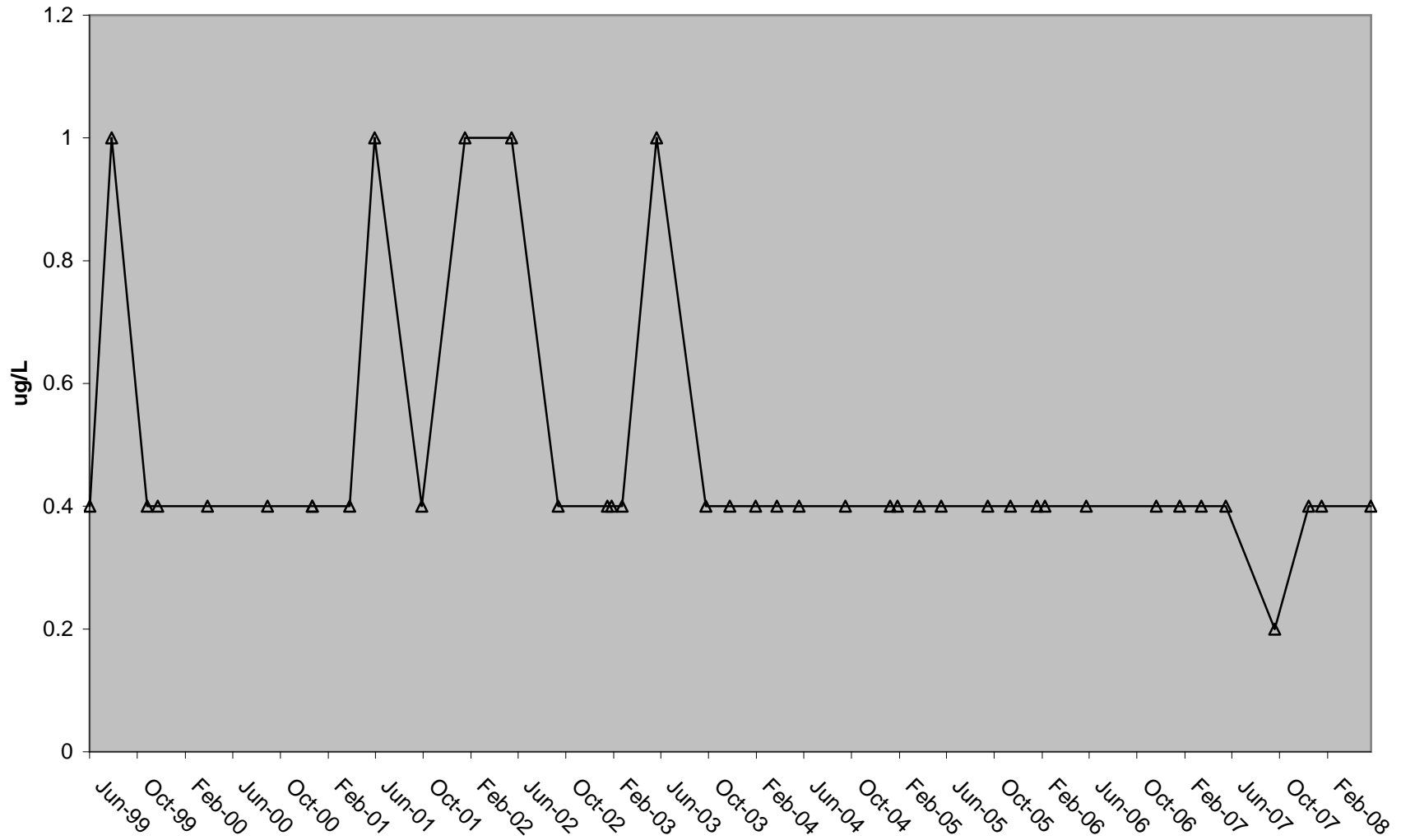
# Nimbus Total Coliform

— Trendline    △ Below Detection    ▲ Result



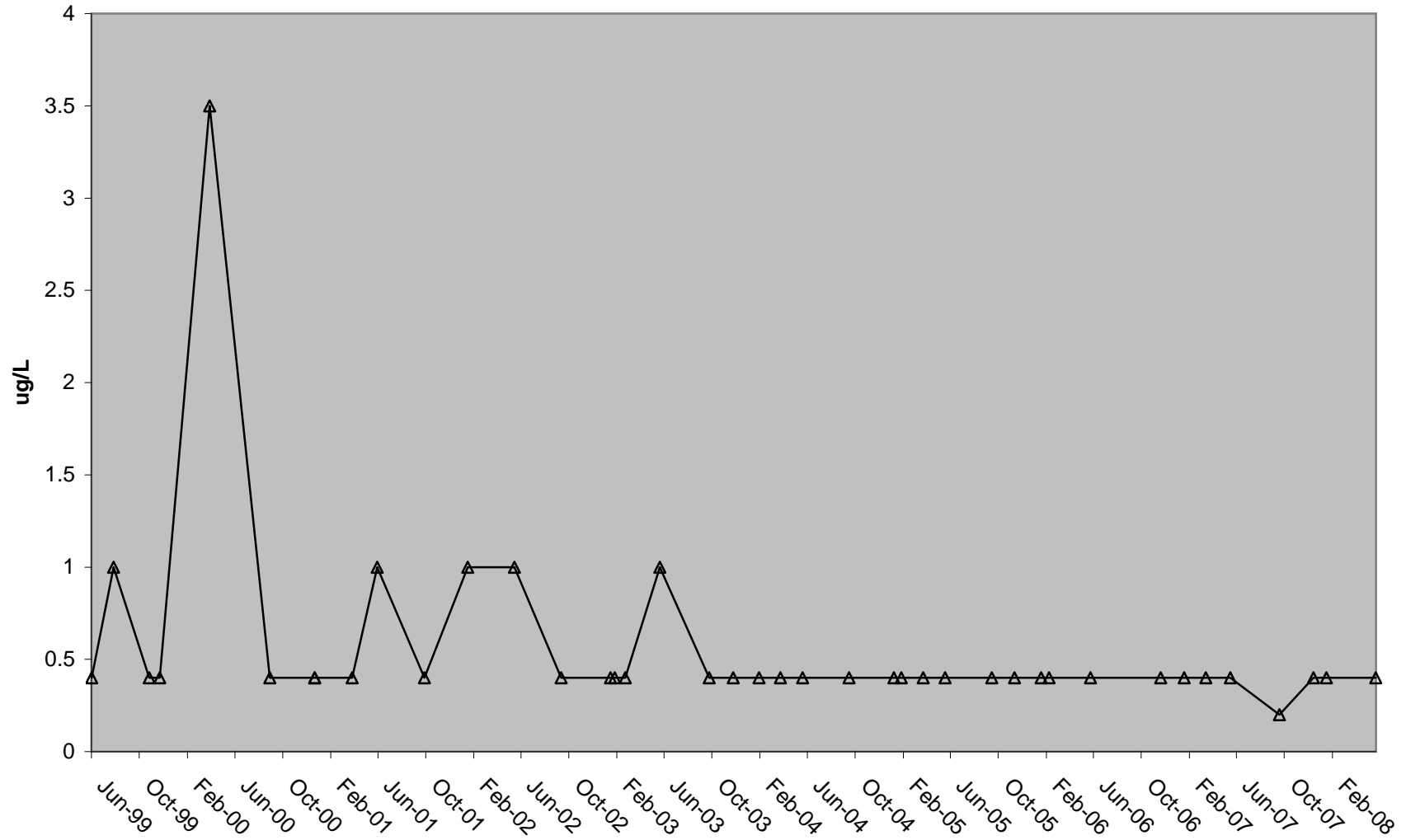
# Nimbus Aldicarb

— Trendline    △ Below Detection    ▲ Result



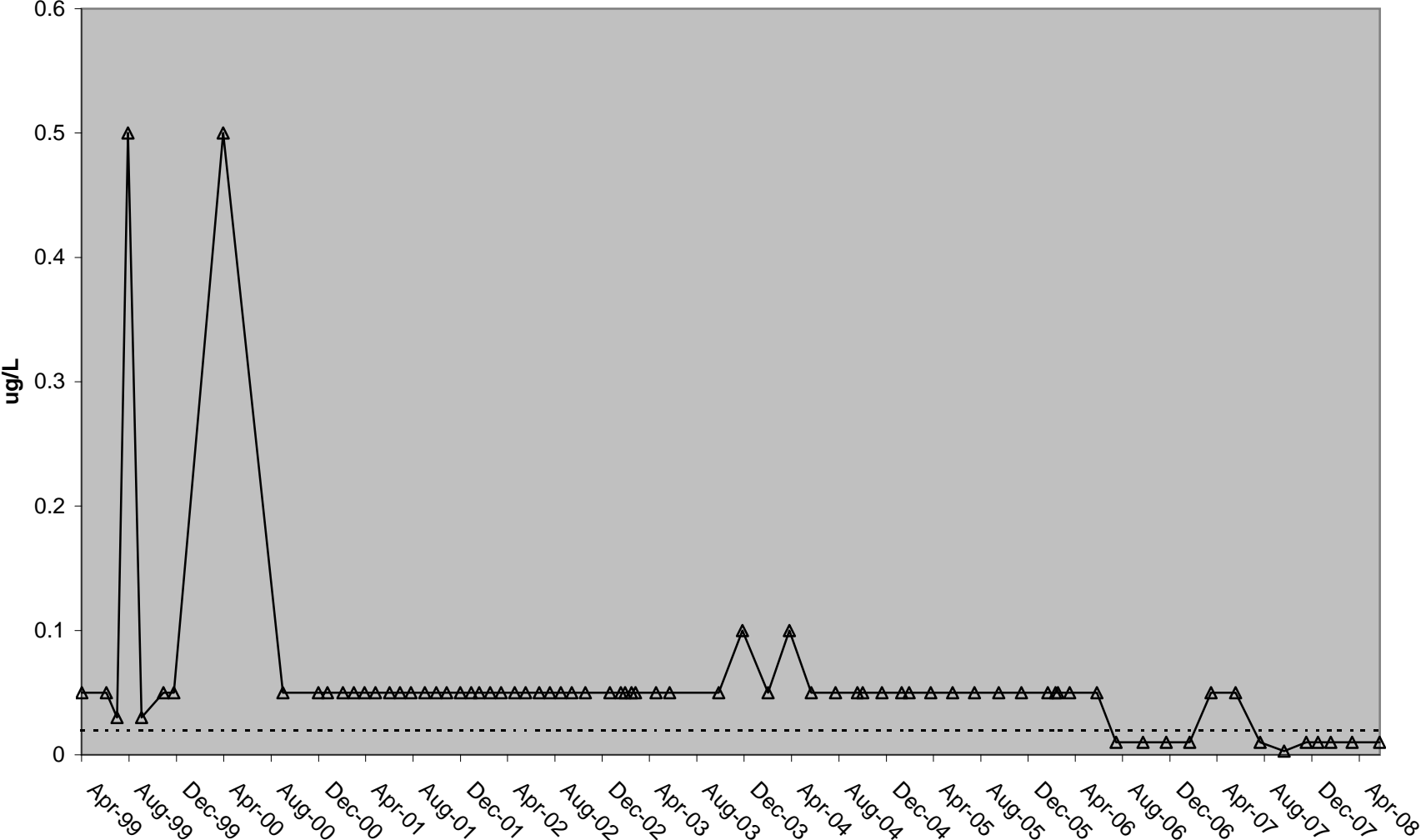
# Nimbus Propoxur

— Trendline    △ Below Detection    ▲ Result



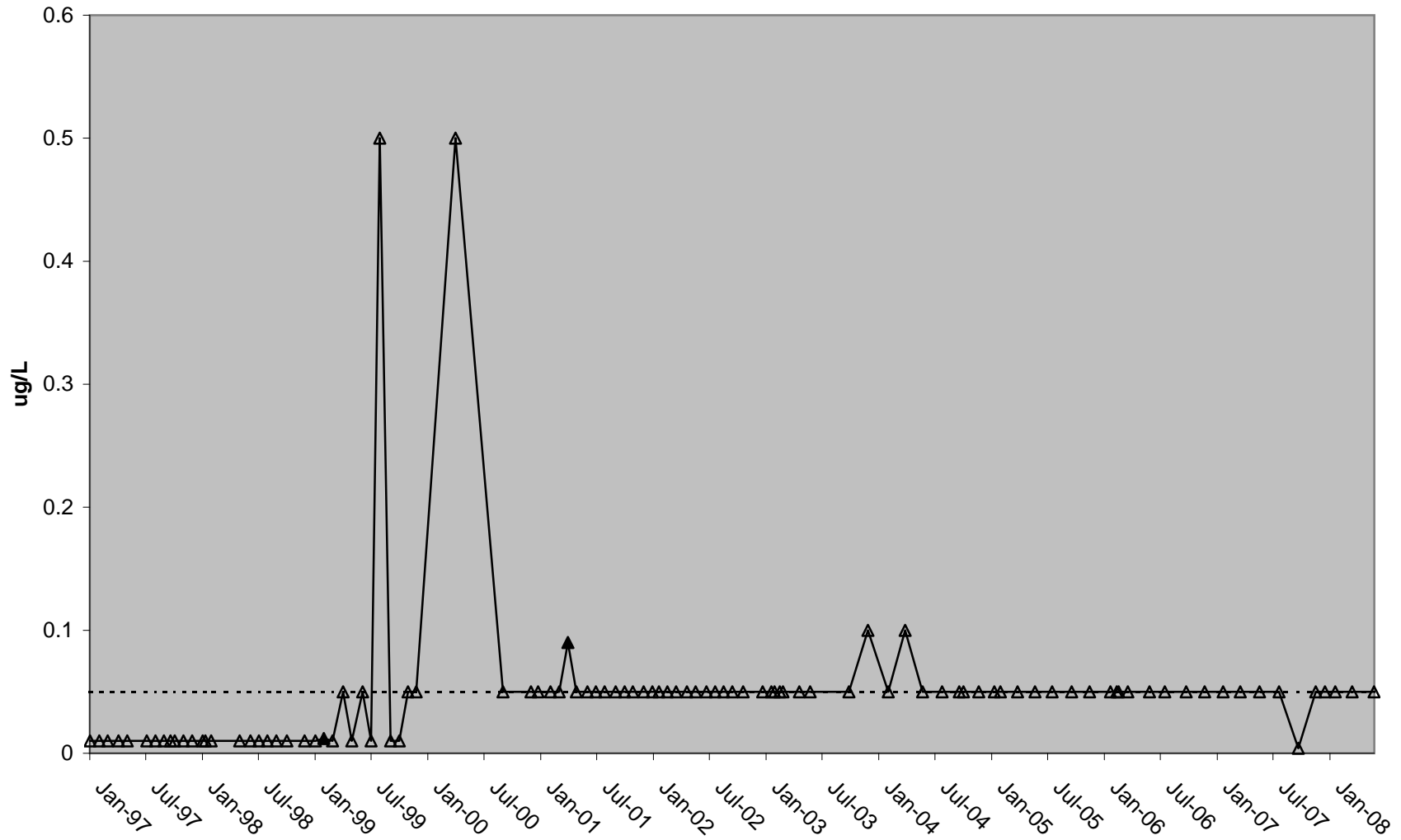
# Nimbus Chlorpyrifos

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



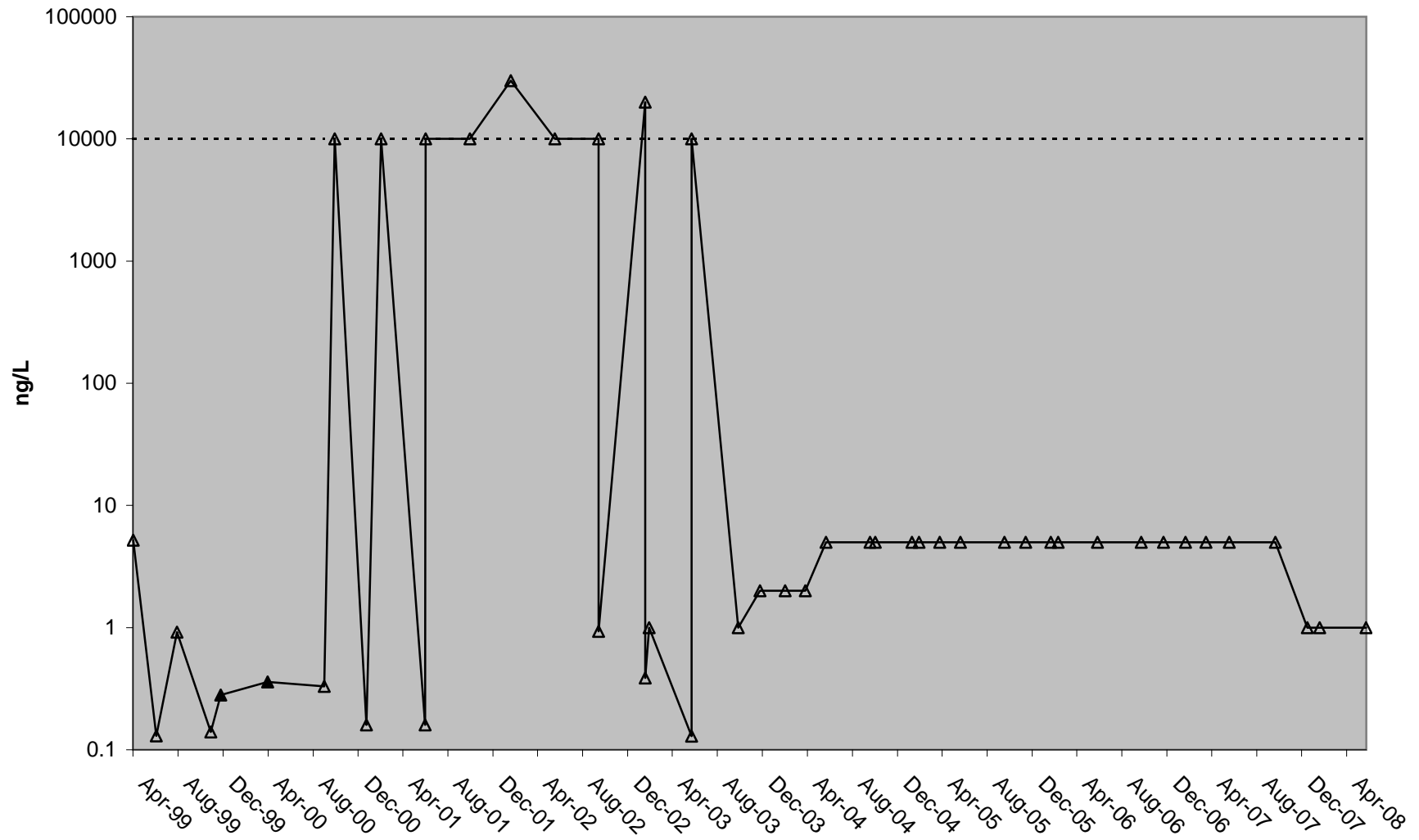
# Nimbus Diazinon

— Trendline    △ Below Detection    ▲ Result    - - - - - Lowest Objective



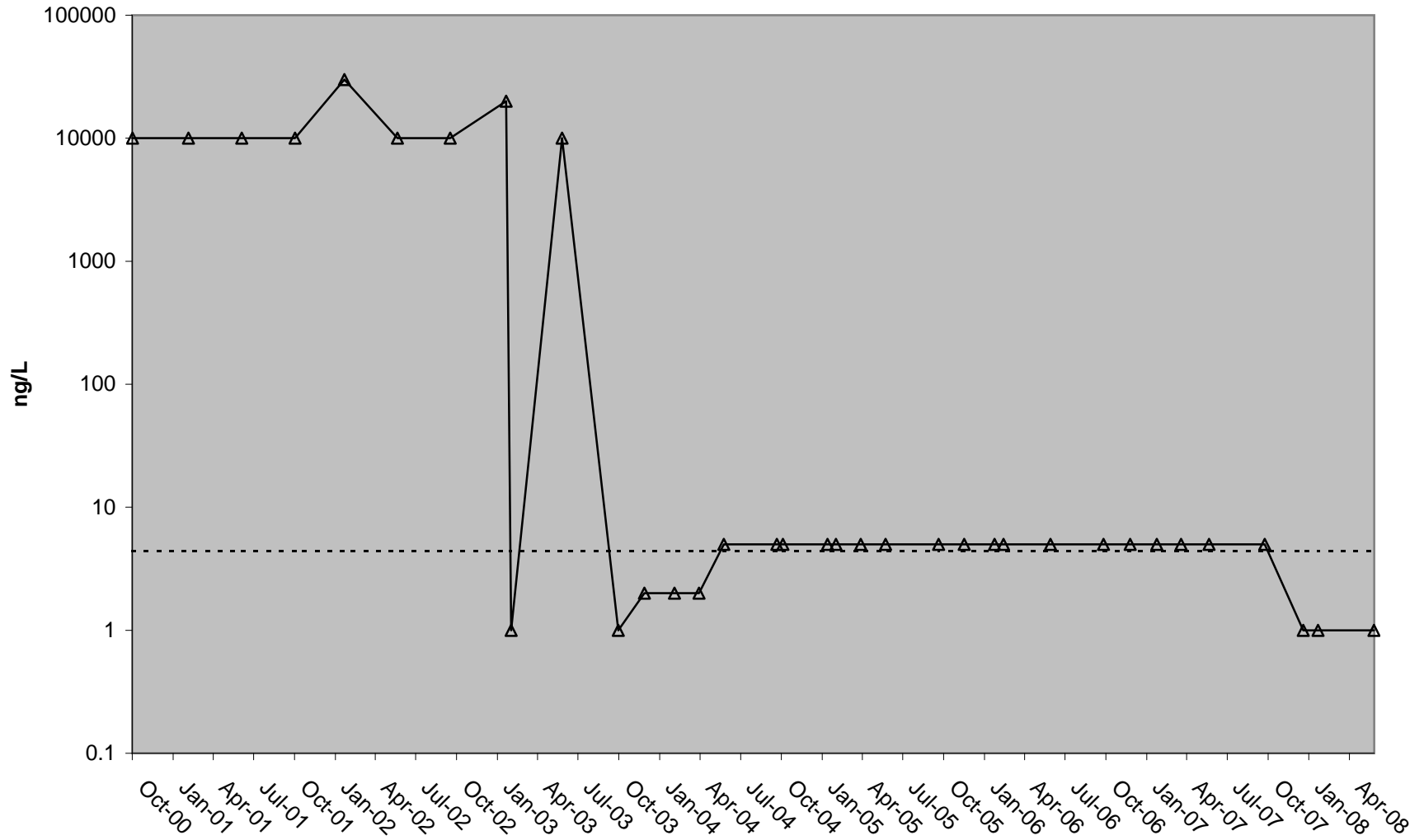
# Nimbus Anthracene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



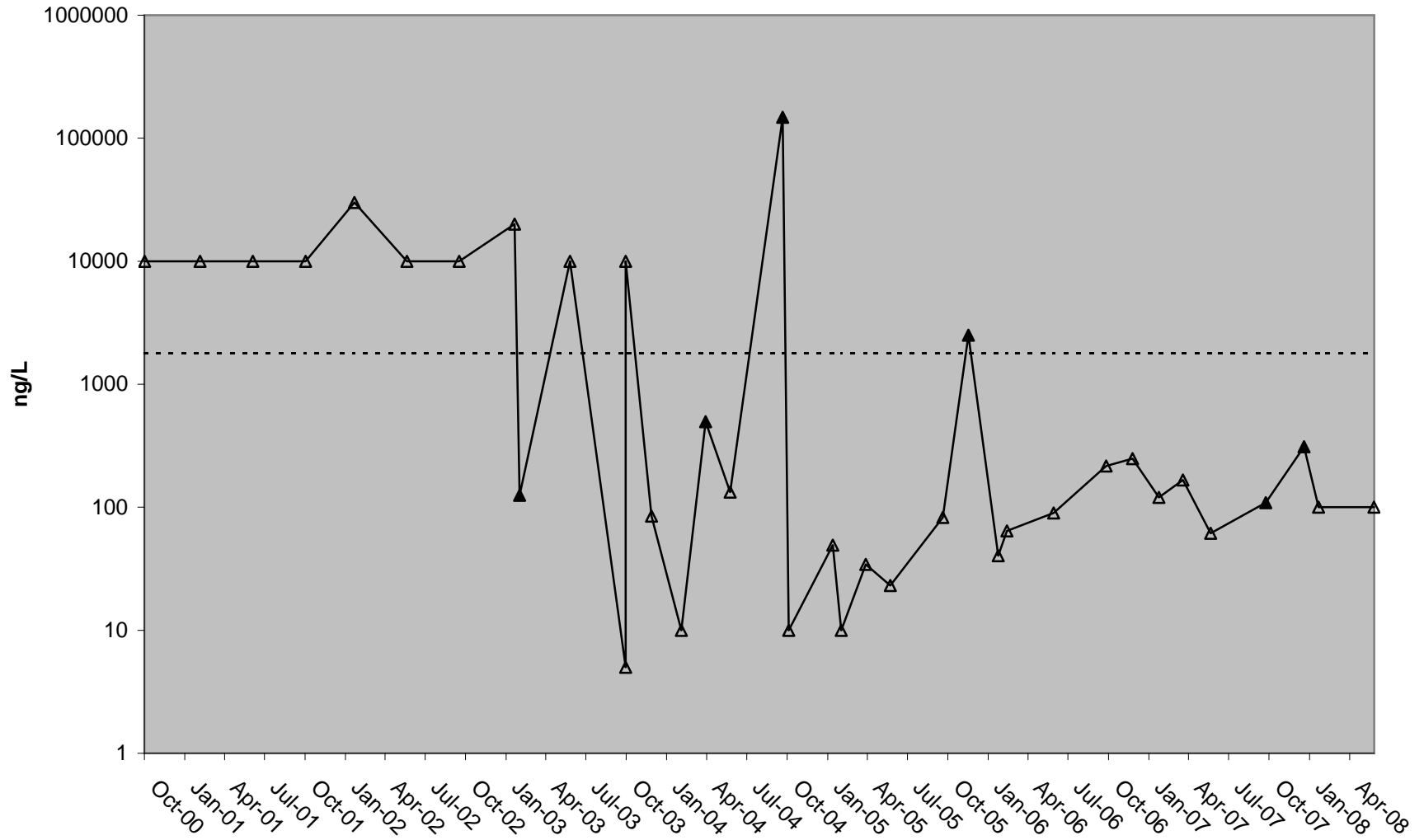
# Nimbus Benzo(k)fluoranthene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



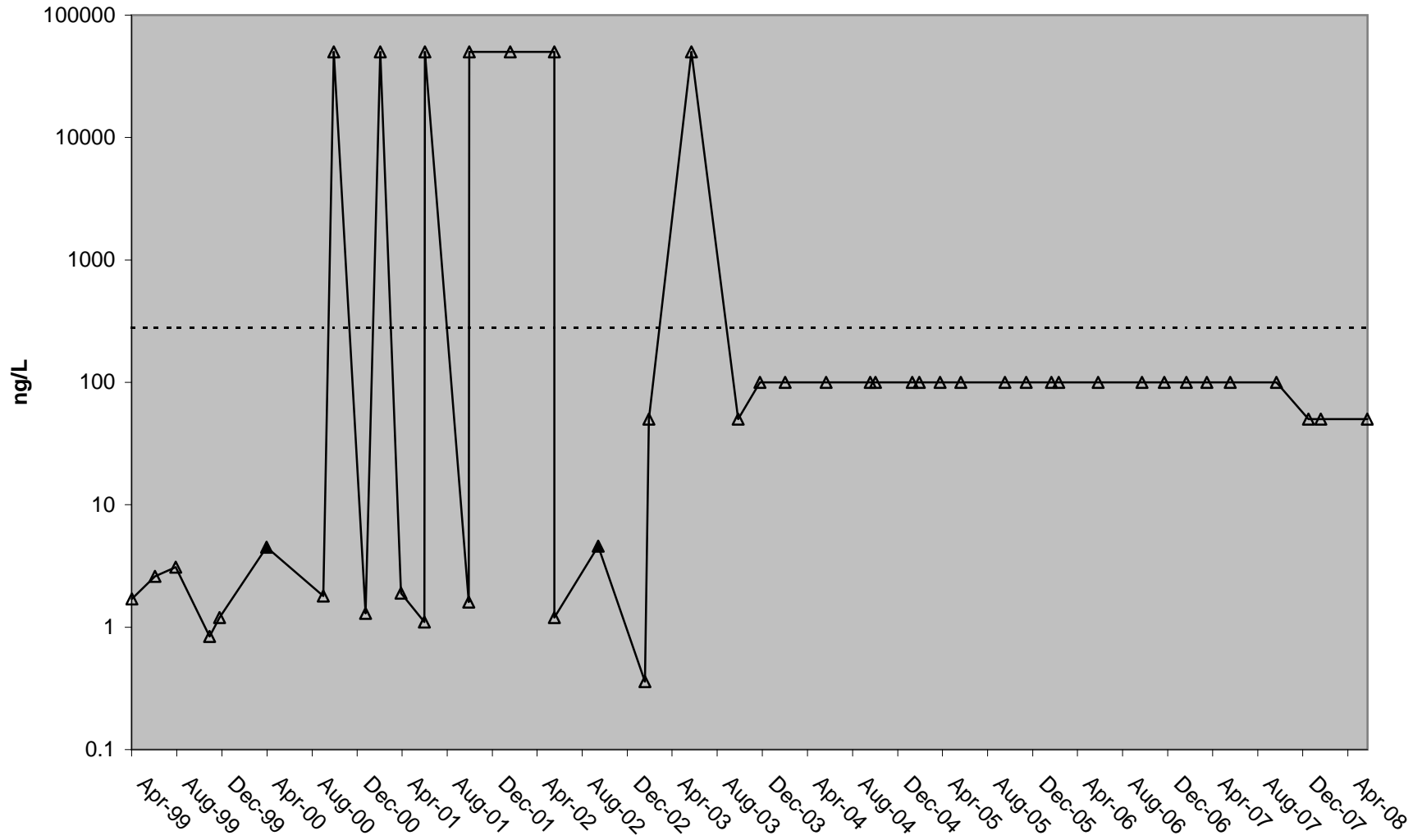
# Nimbus Bis(2-ethylhexyl) phthalate

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



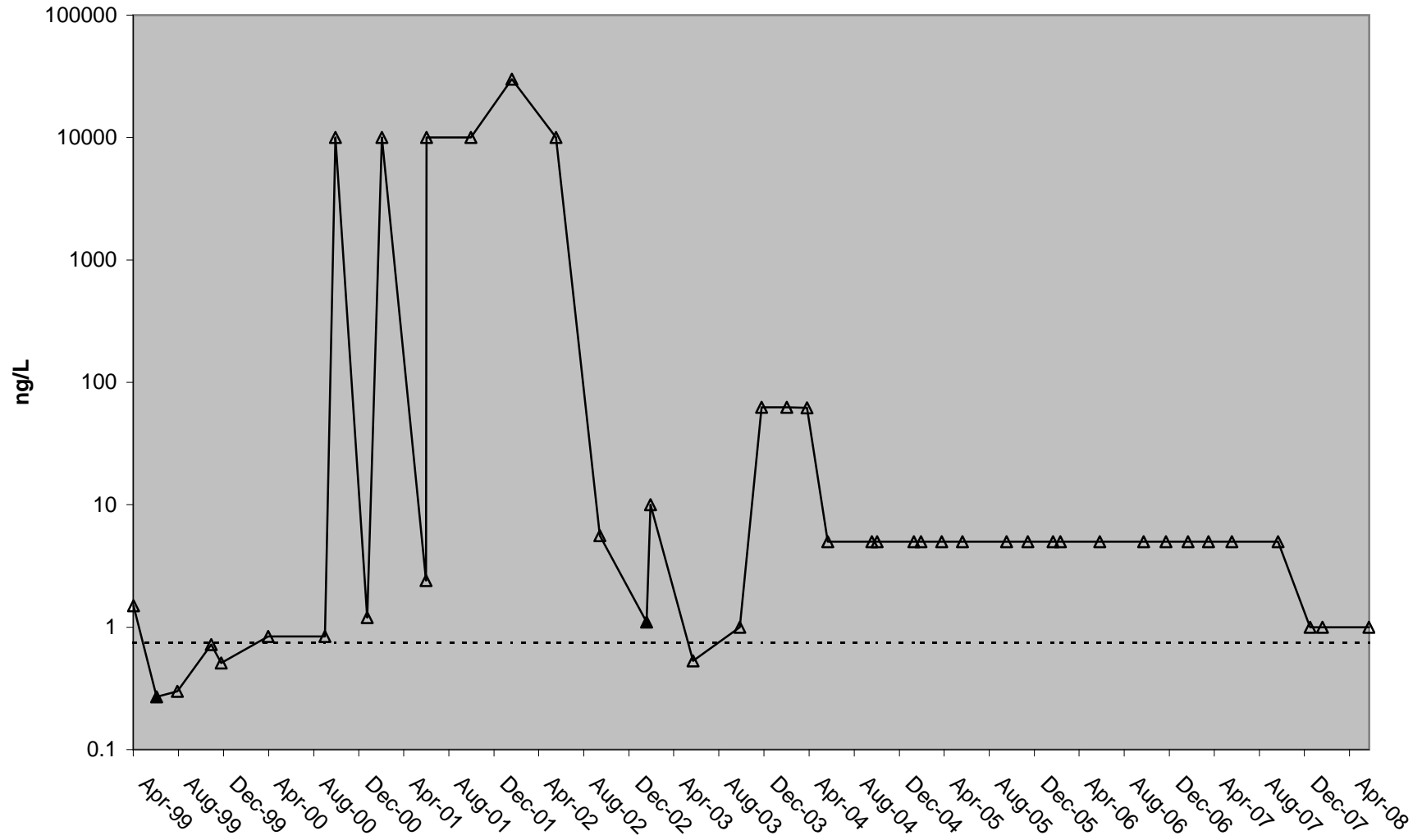
# Nimbus Pentachlorophenol

— Trendline    ▲ Below Detection    ▲ Result    - - - - - Lowest Objective



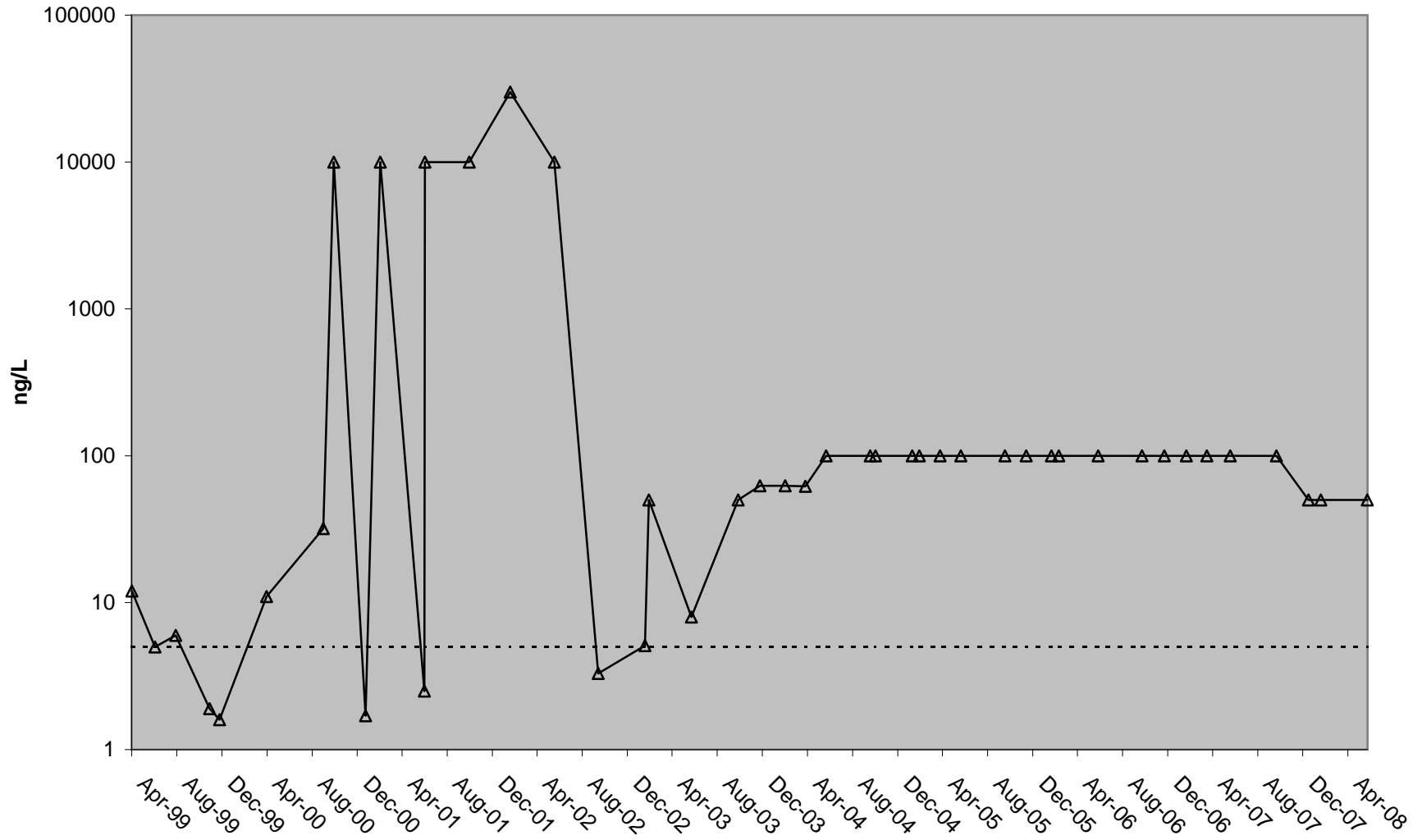
# Nimbus Hexachlorobenzene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



# Nimbus N-Nitroso-di-n-propylamine

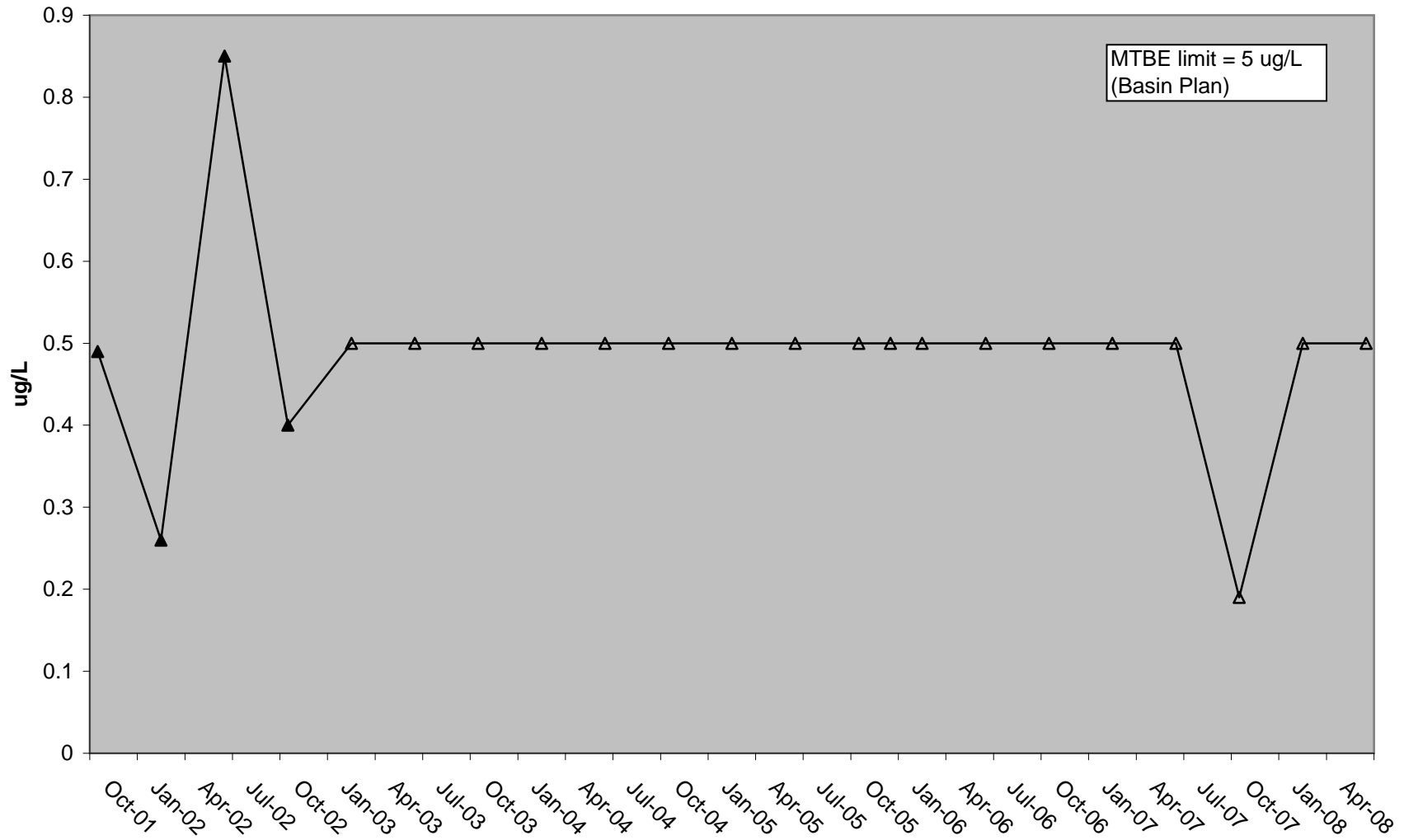
— Trendline    ▲ Below Detection    ▲ Result    - - - - - Lowest Objective



# Nimbus MTBE

— Trendline    △ Below Detection    ▲ Result

MTBE limit = 5 ug/L  
(Basin Plan)





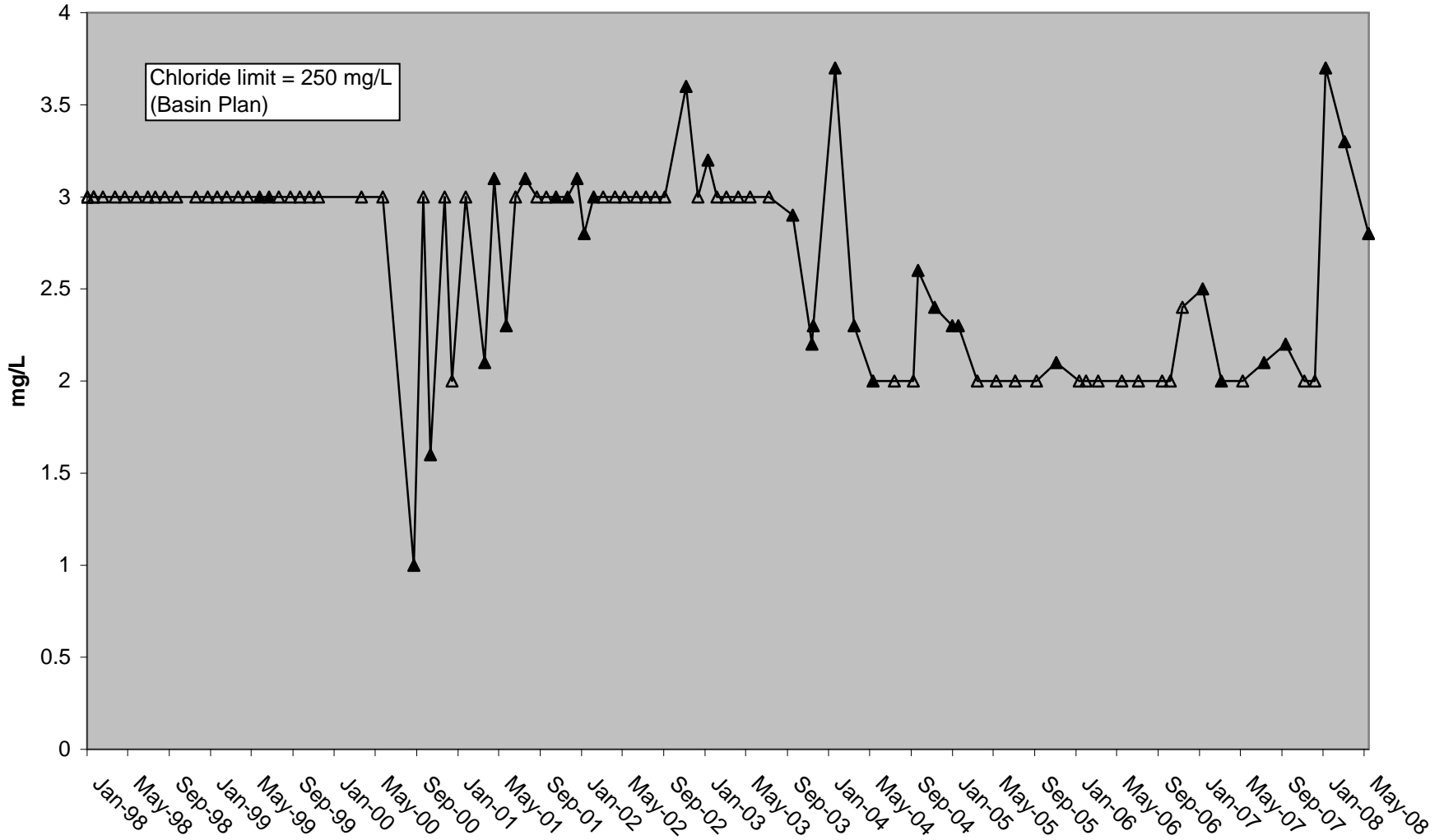
*APPENDIX C-5*

*American River at Discovery Park*



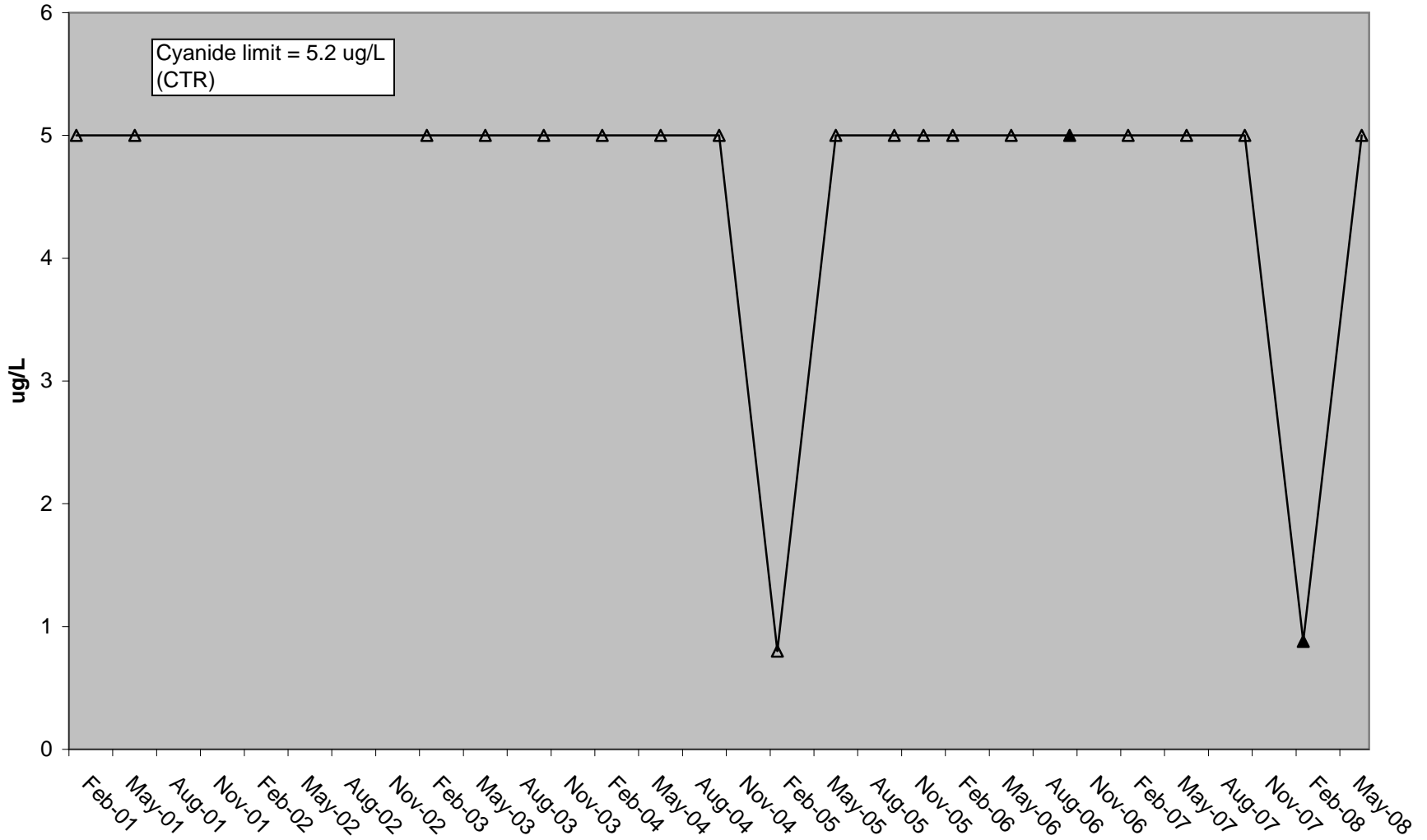
# Discovery Park Chloride

— Trendline    △ Below Detection    ▲ Result



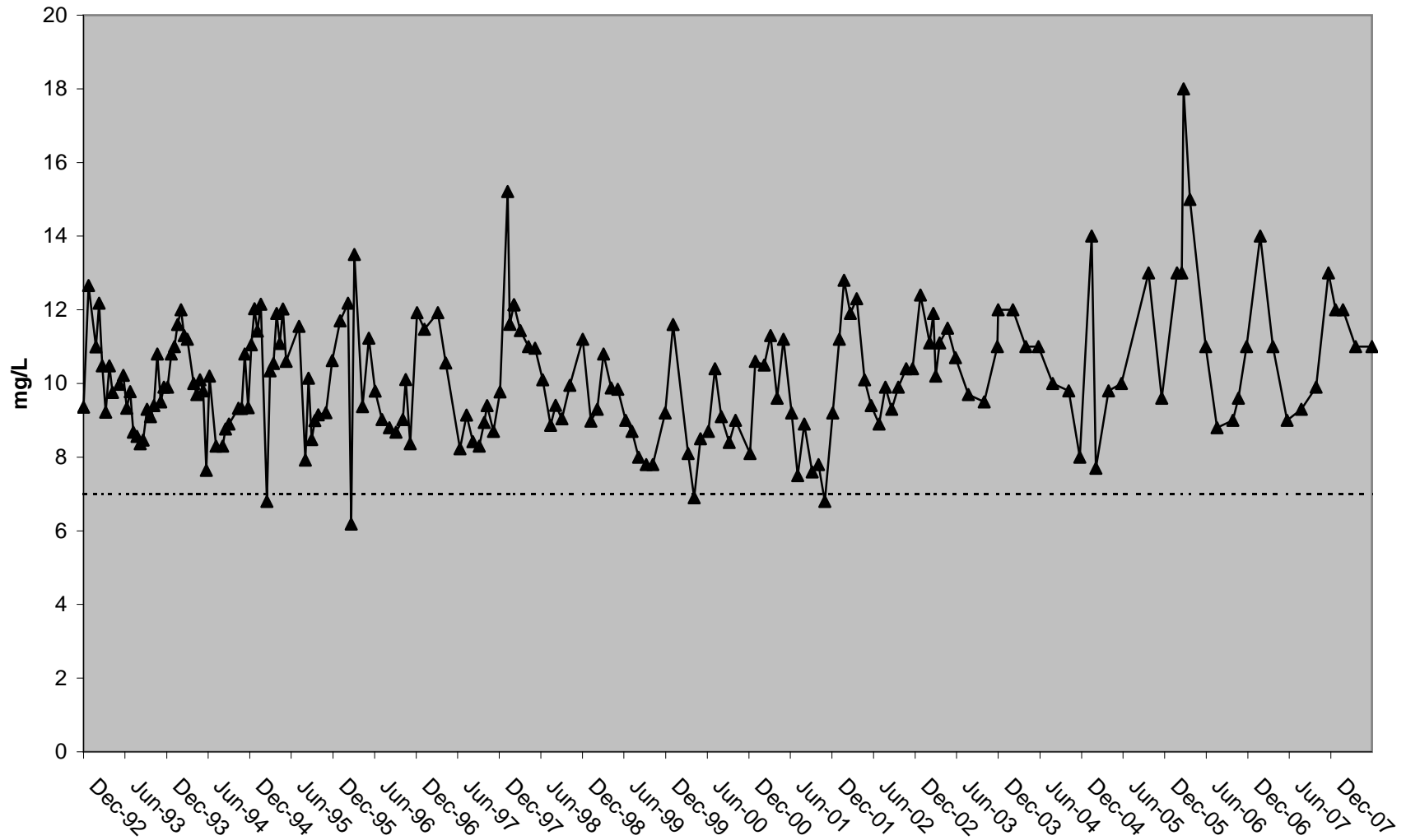
# Discovery Park Cyanide

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



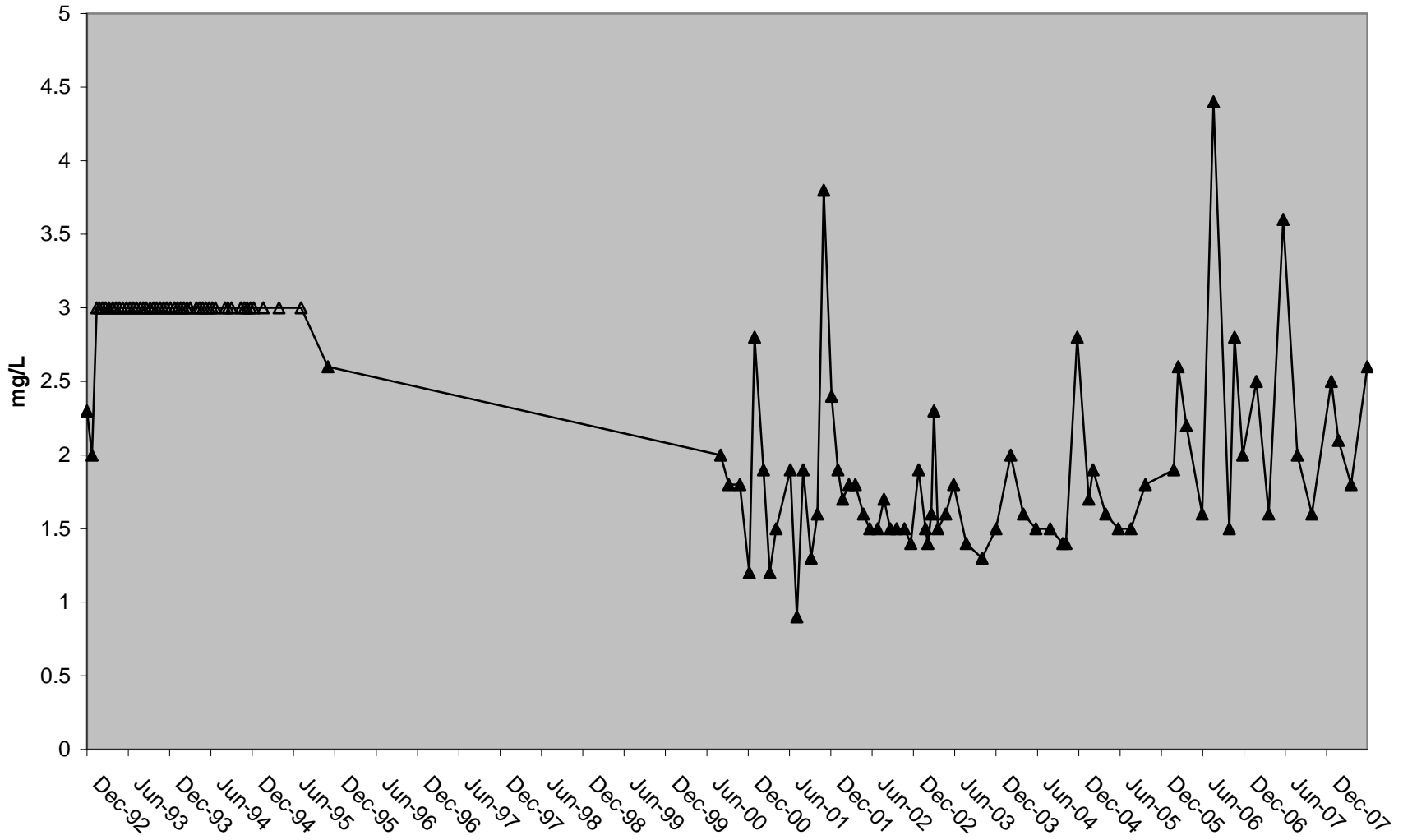
# Discovery Park Dissolved Oxygen (DO)

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



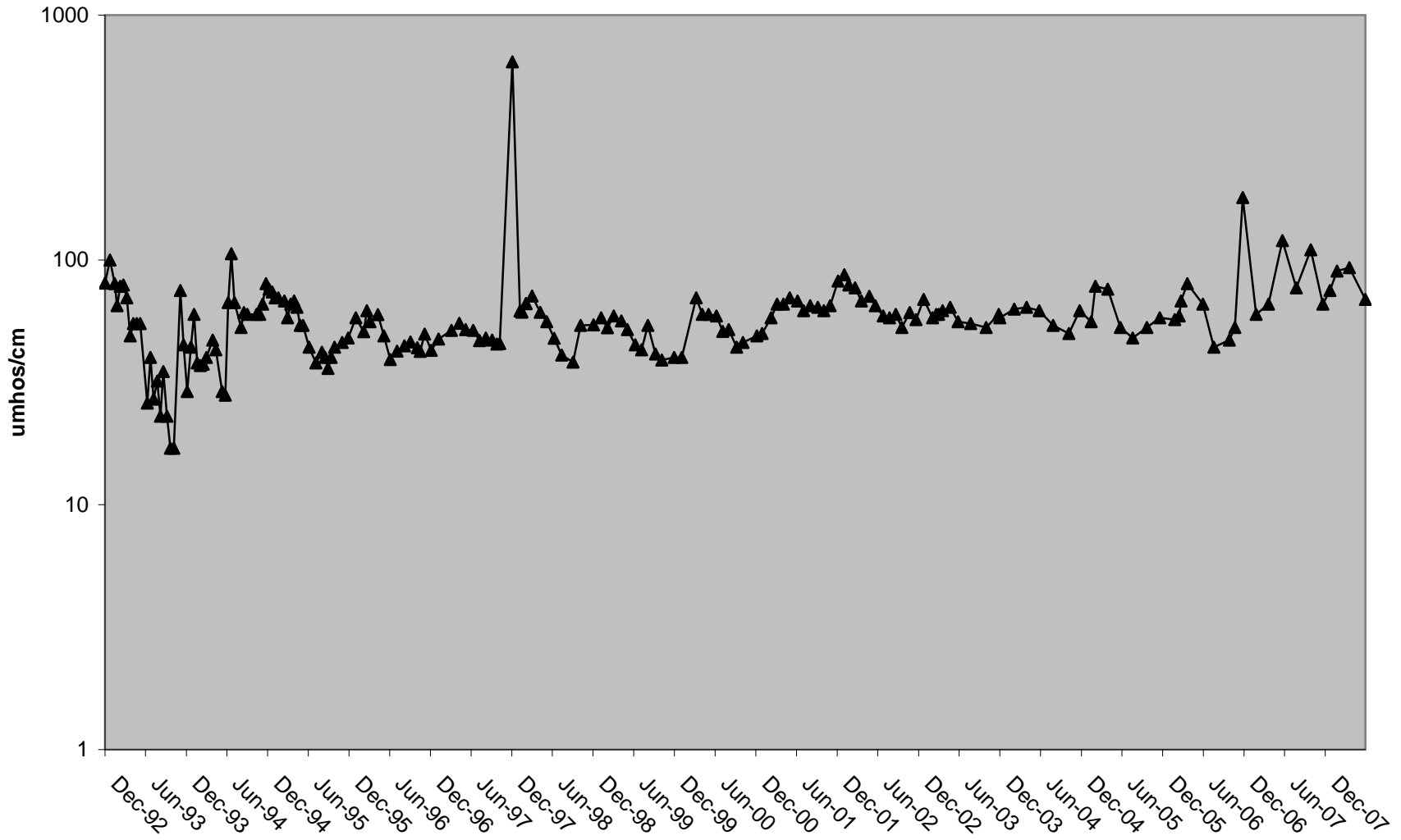
### Discovery Park Dissolved Organic Carbon (DOC)

— Trendline    △ Below Detection    ▲ Result



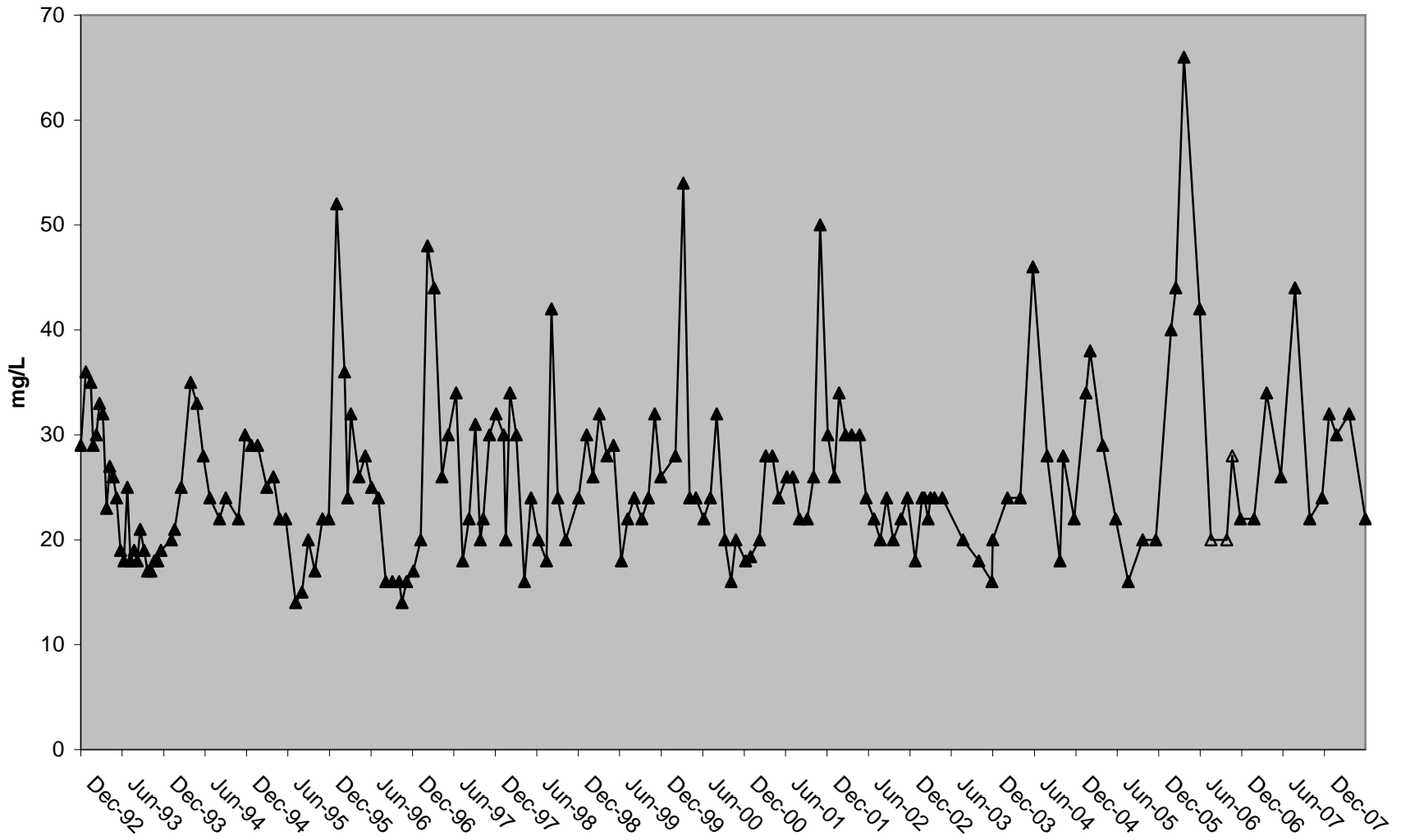
# Discovery Park Electrical Conductivity

— Trendline    △ Below Detection    ▲ Result



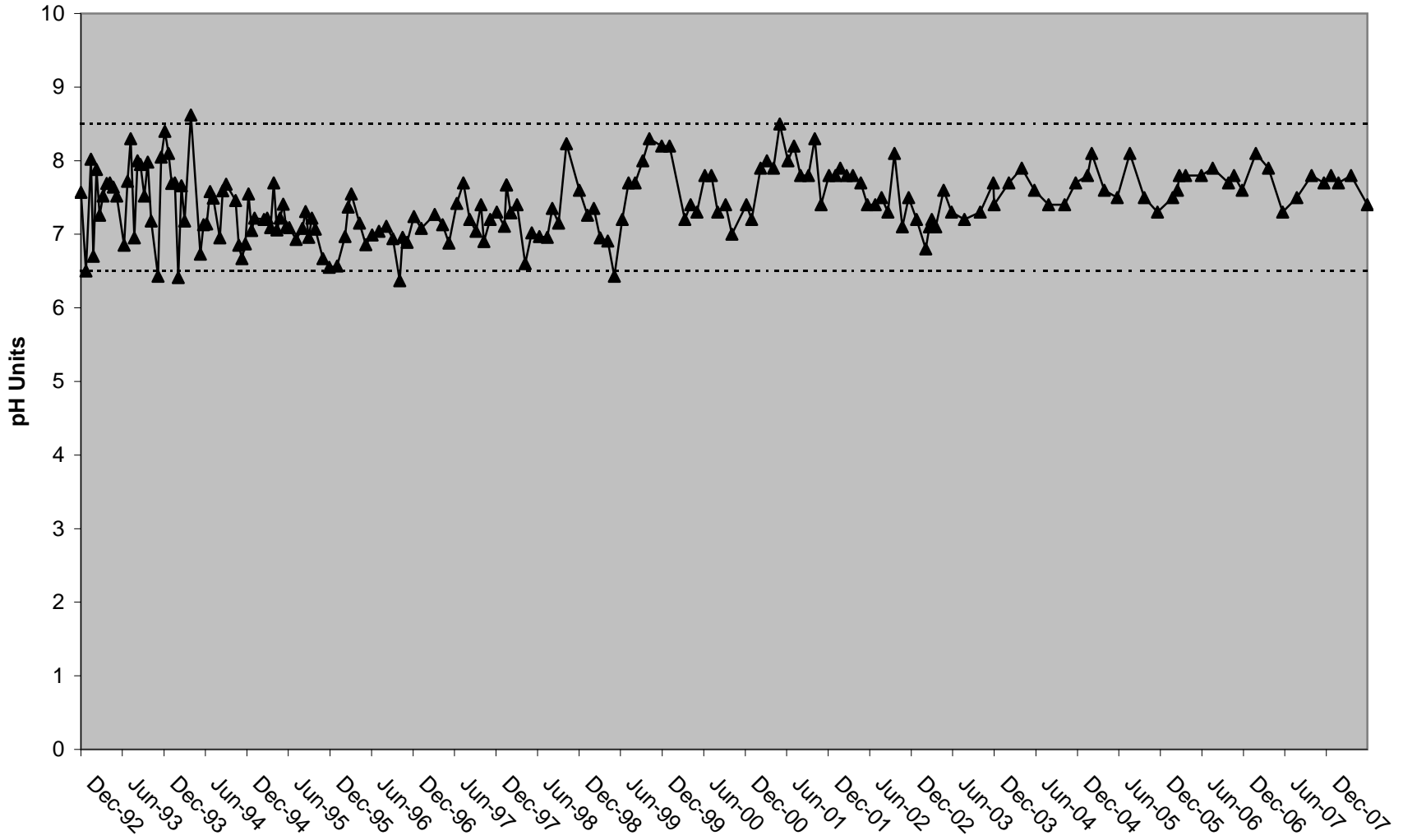
# Discovery Park Hardness

— Trendline    △ Below Detection    ▲ Result



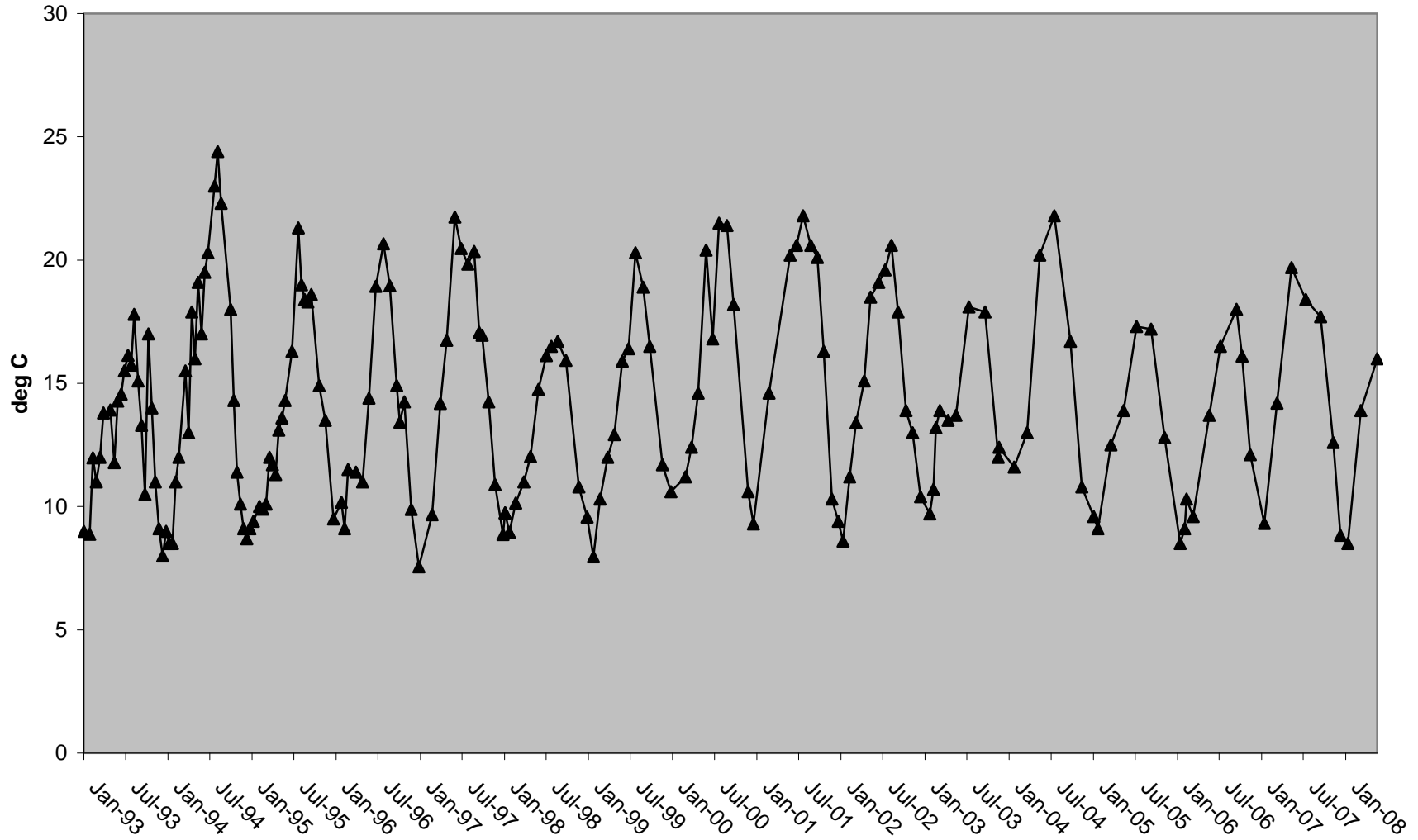
# Discovery Park pH

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



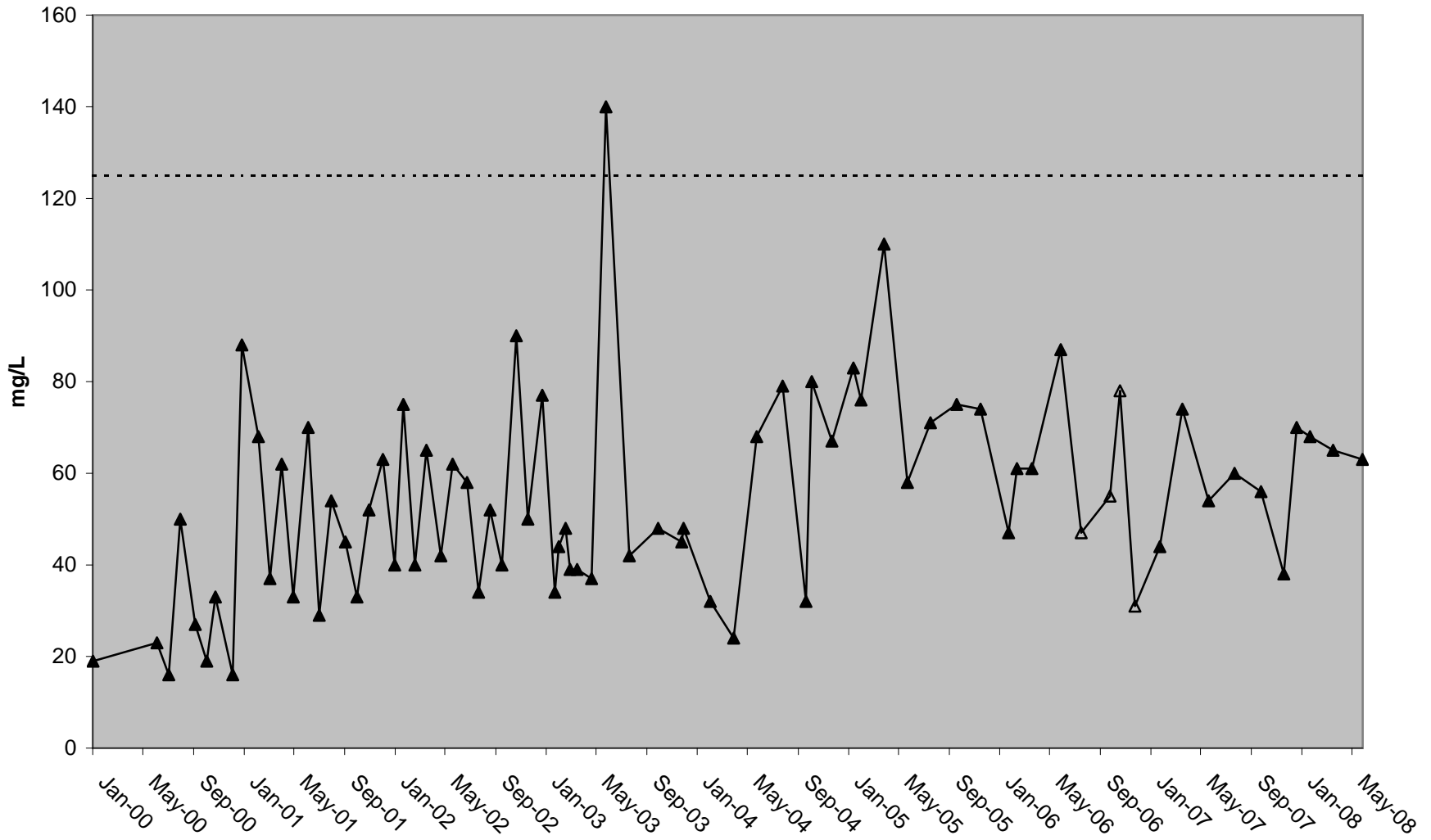
# Discovery Park Temperature

— Trendline    △ Below Detection    ▲ Result



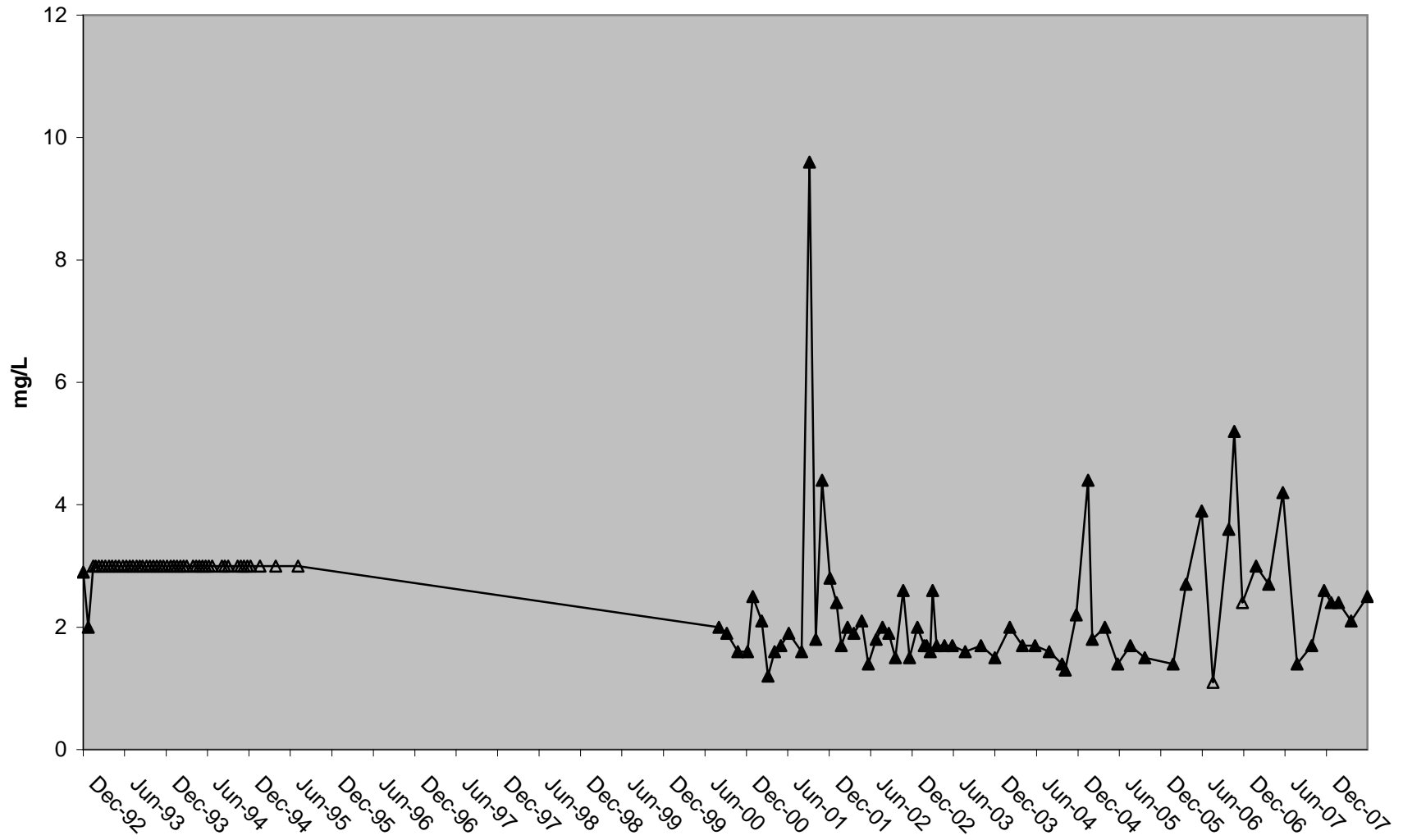
### Discovery Park Total Dissolved Solids (TDS)

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



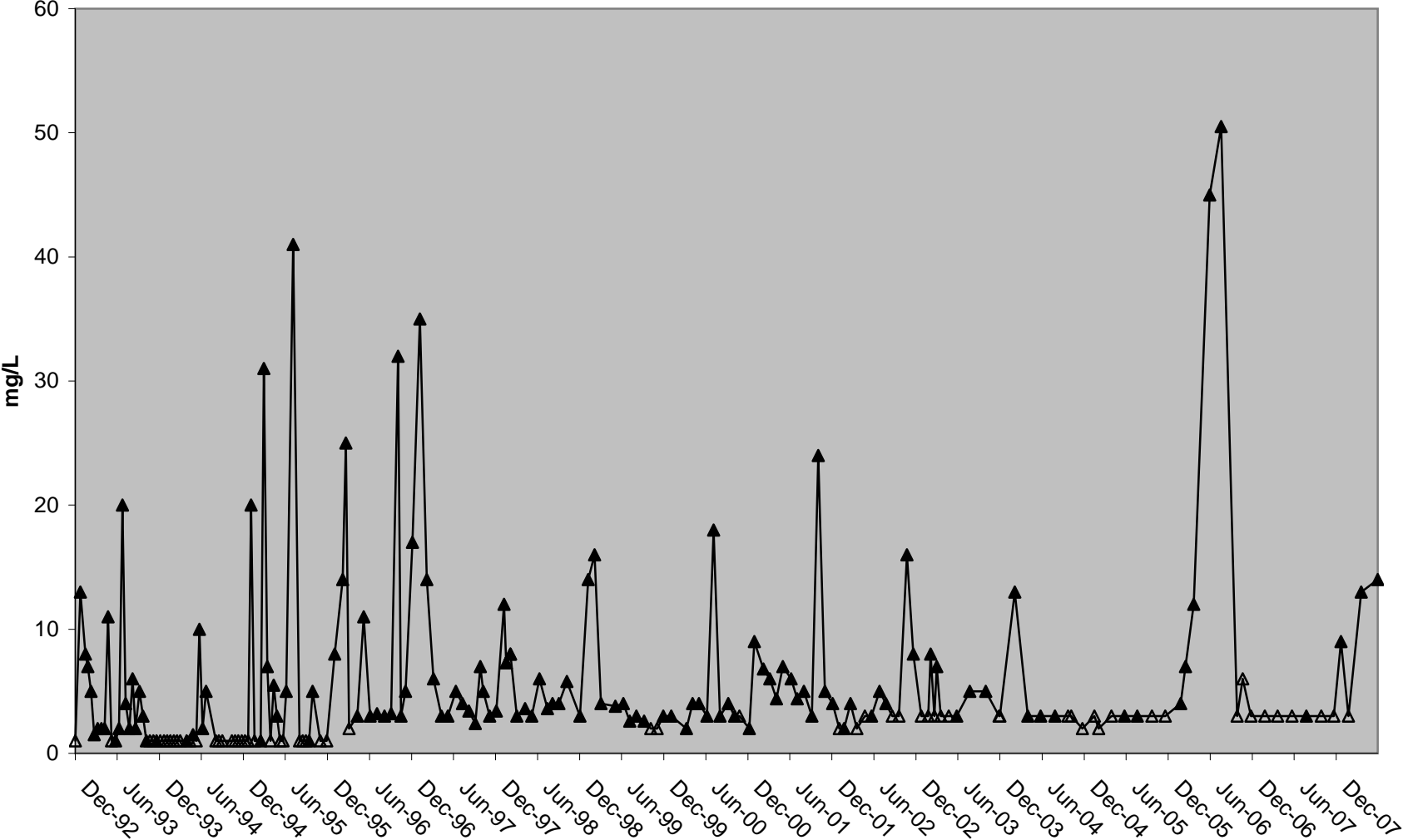
### Discovery Park Total Organic Carbon (TOC)

— Trendline    △ Below Detection    ▲ Result



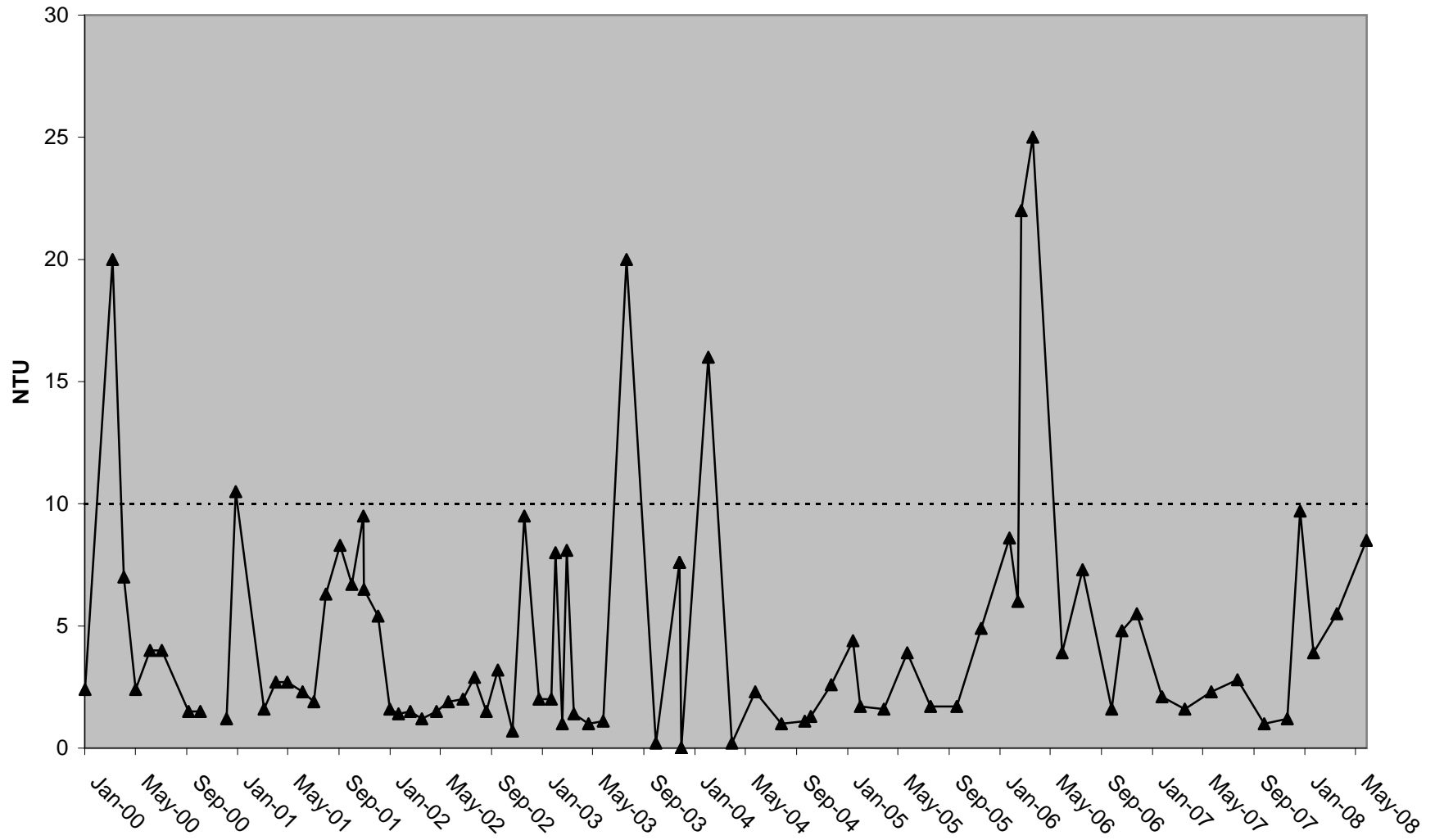
### Discovery Park Total Suspended Solids (TSS)

— Trendline    △ Below Detection    ▲ Result



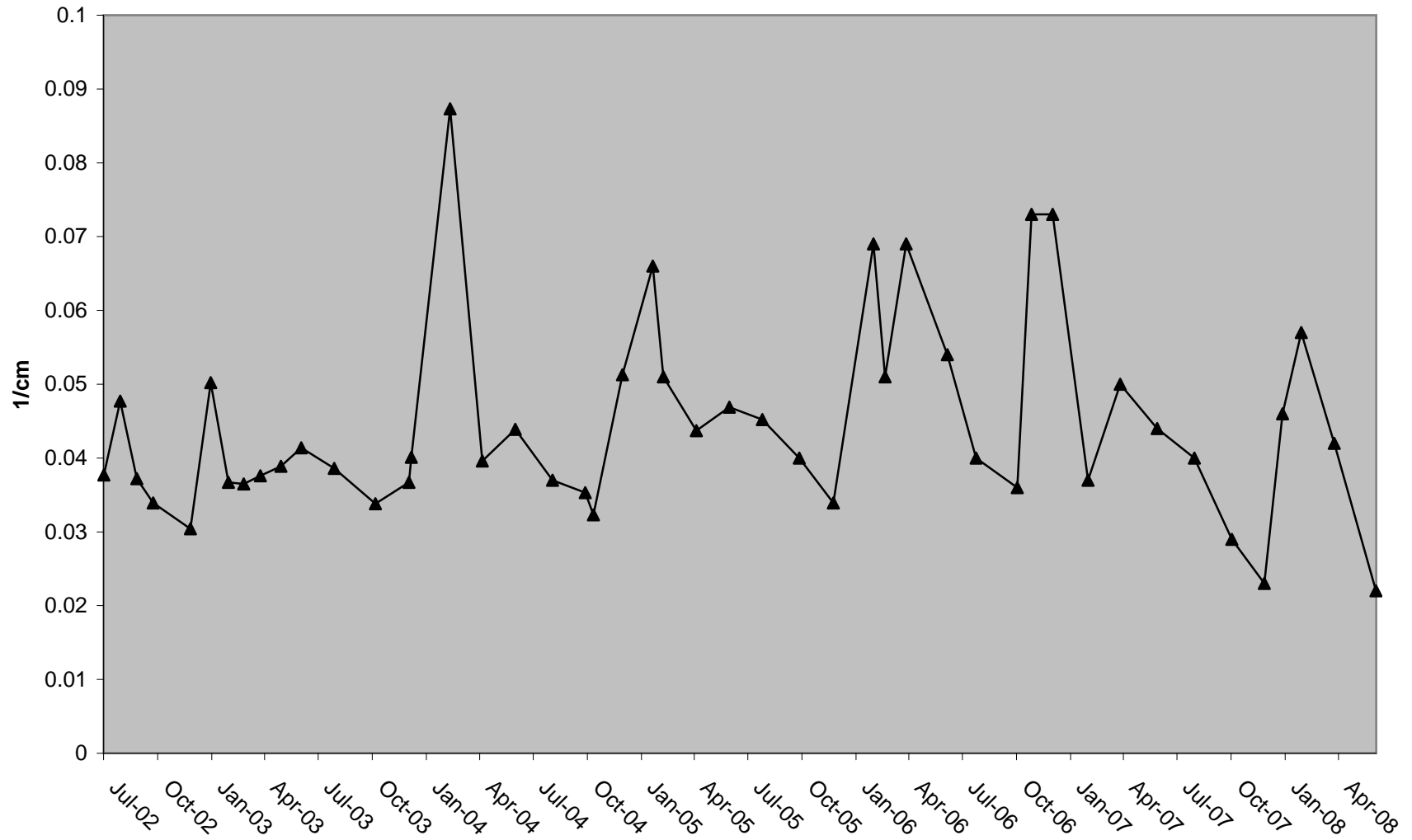
# Discovery Park Turbidity

— Trendline    ▲ Below Detection    ▲ Result    - - - - - Lowest Objective



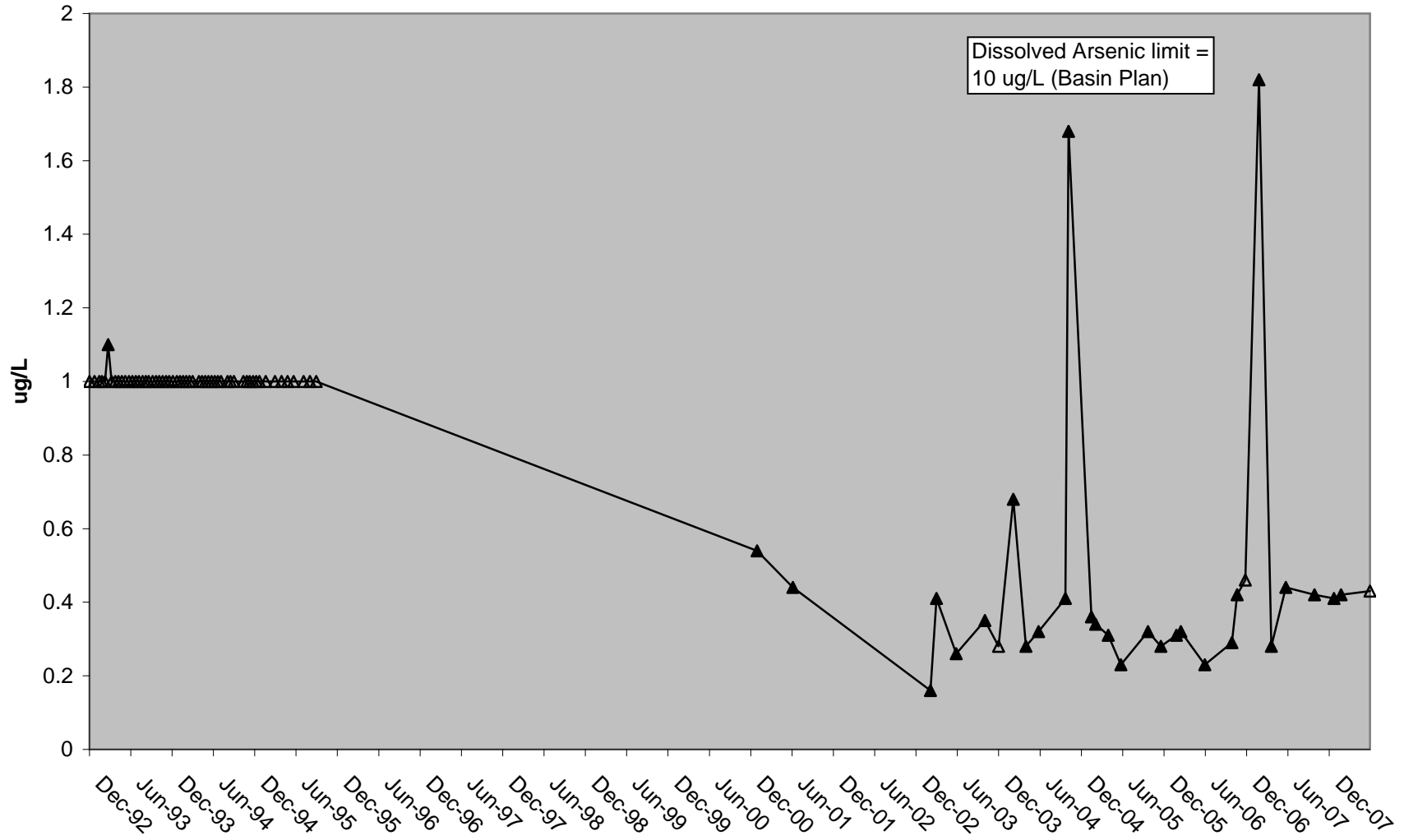
# Discovery Park UVA 254

— Trendline    △ Below Detection    ▲ Result



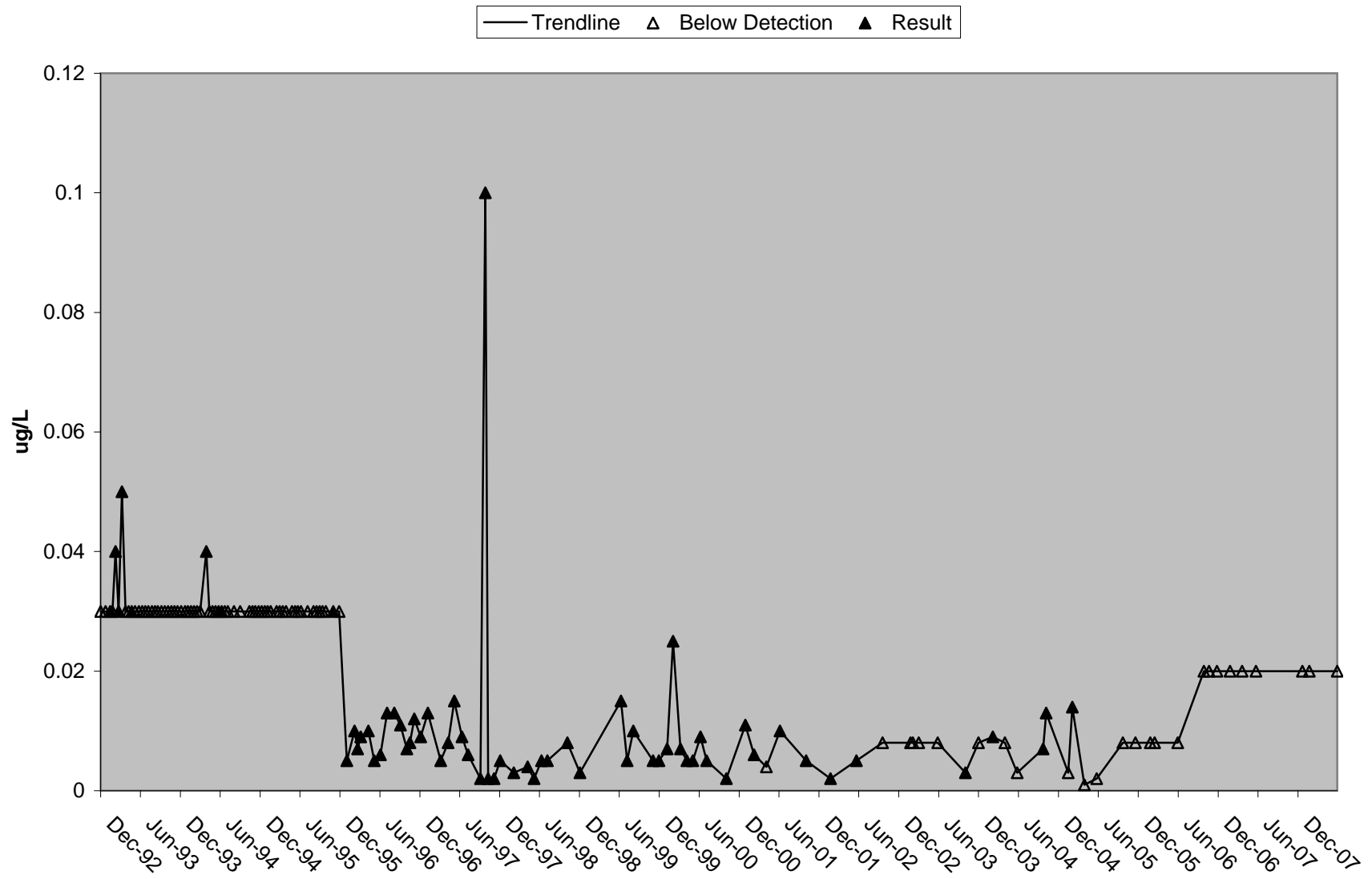
### Discovery Park Dissolved Arsenic (As-d)

— Trendline    △ Below Detection    ▲ Result



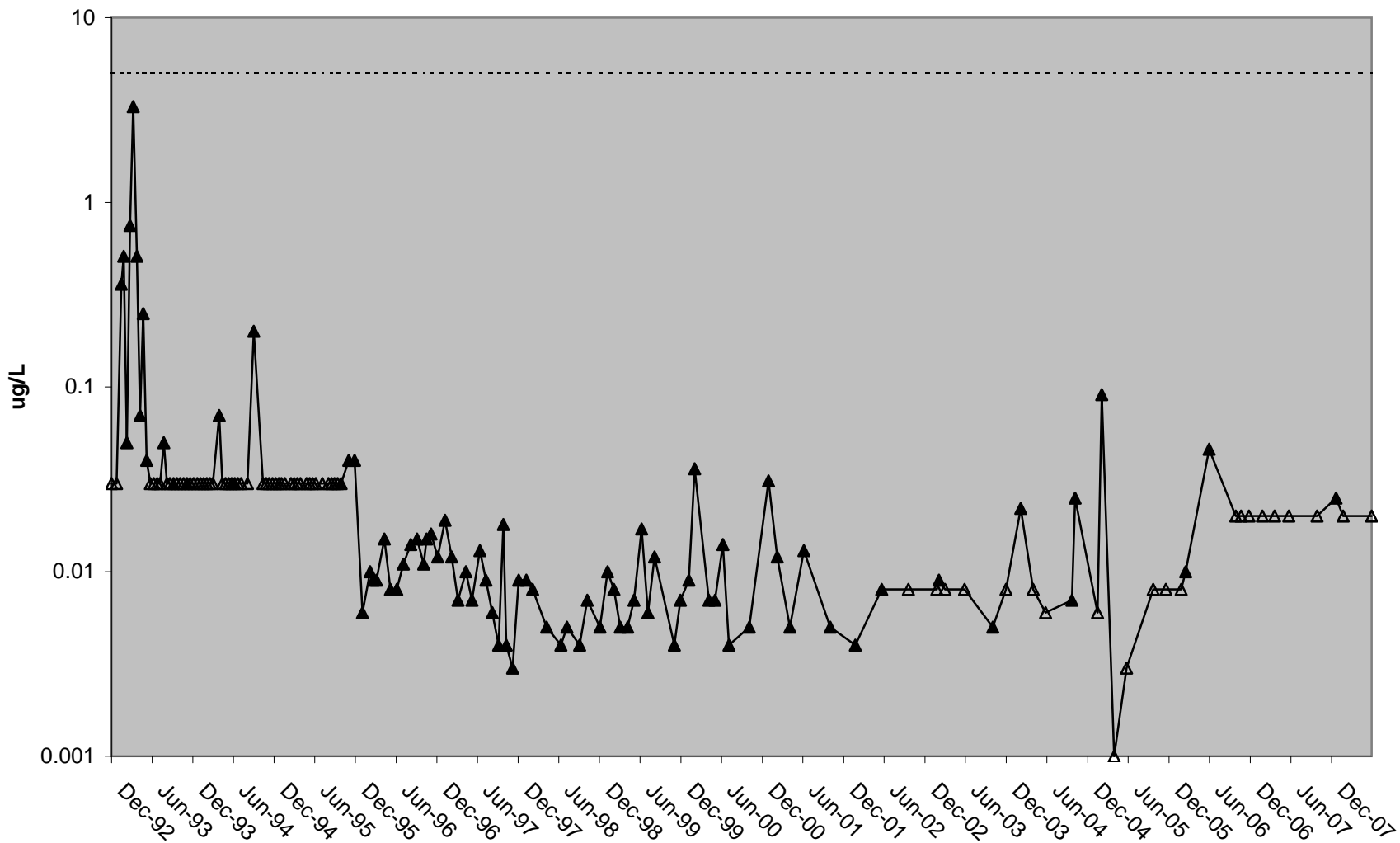


### Discovery Park Dissolved Cadmium (Cd-d)



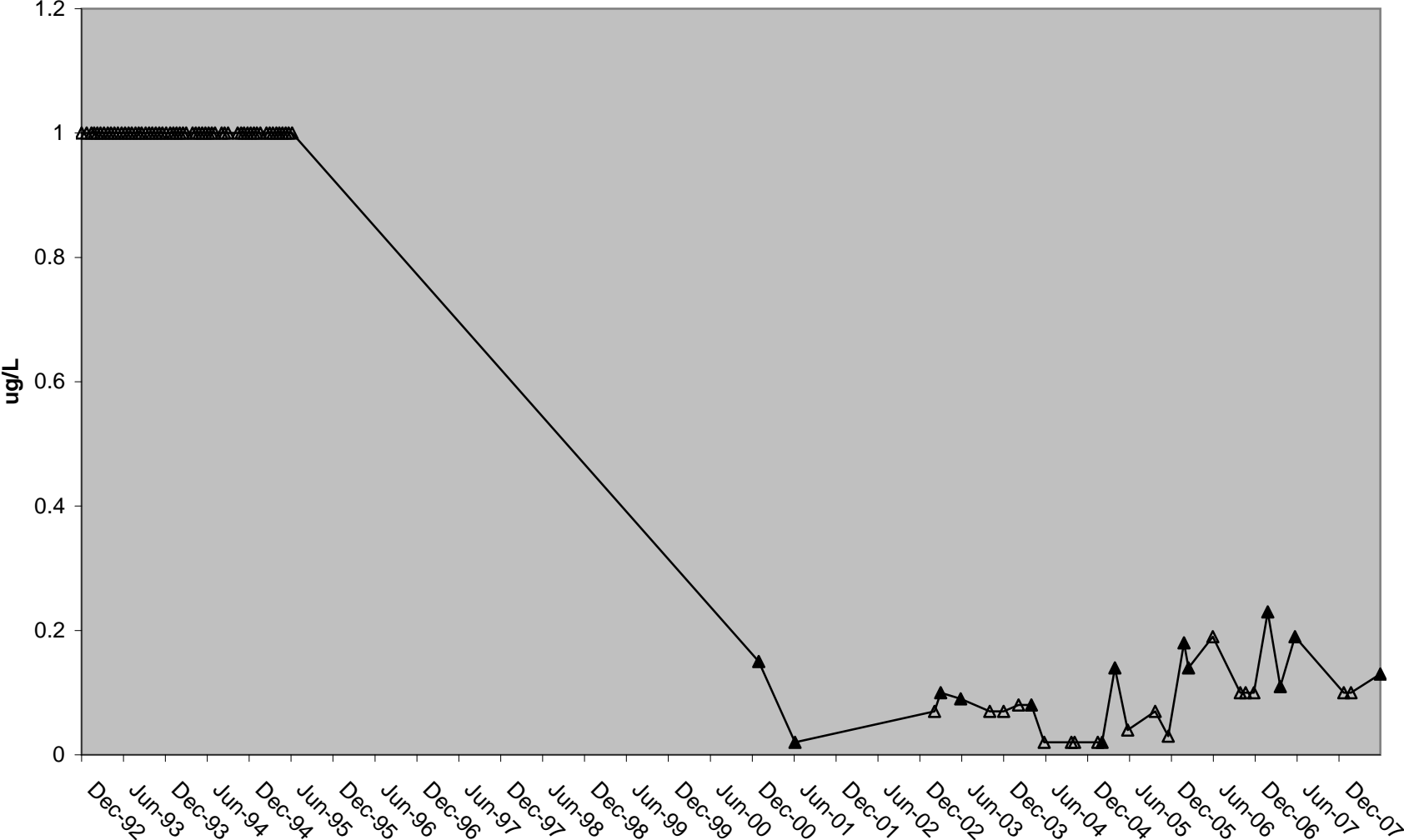
### Discovery Park Total Cadmium (Cd-T)

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result    - - - - - Lowest Objective



### Discovery Park Dissolved Chromium (Cr-d)

— Trendline    △ Below Detection    ▲ Result



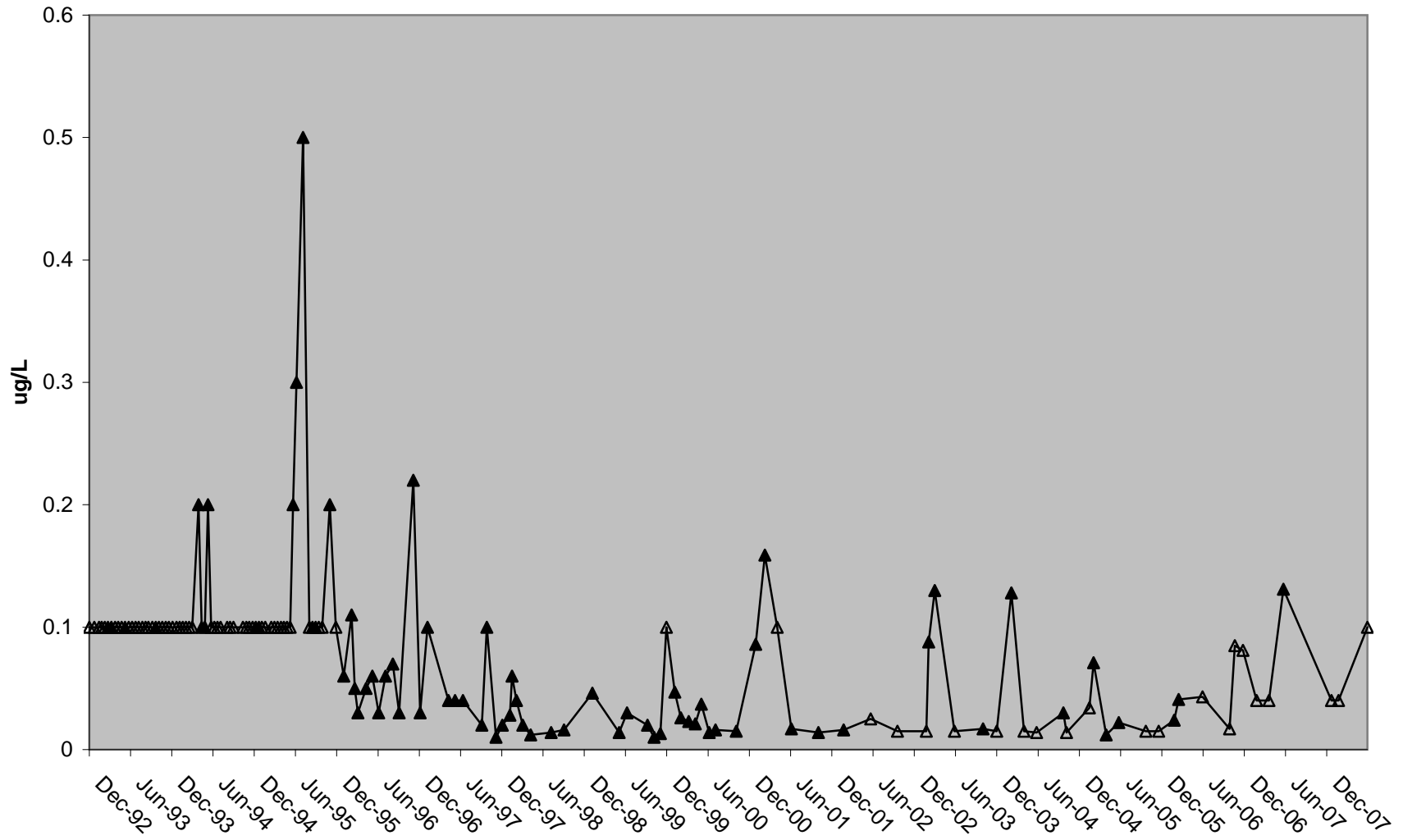






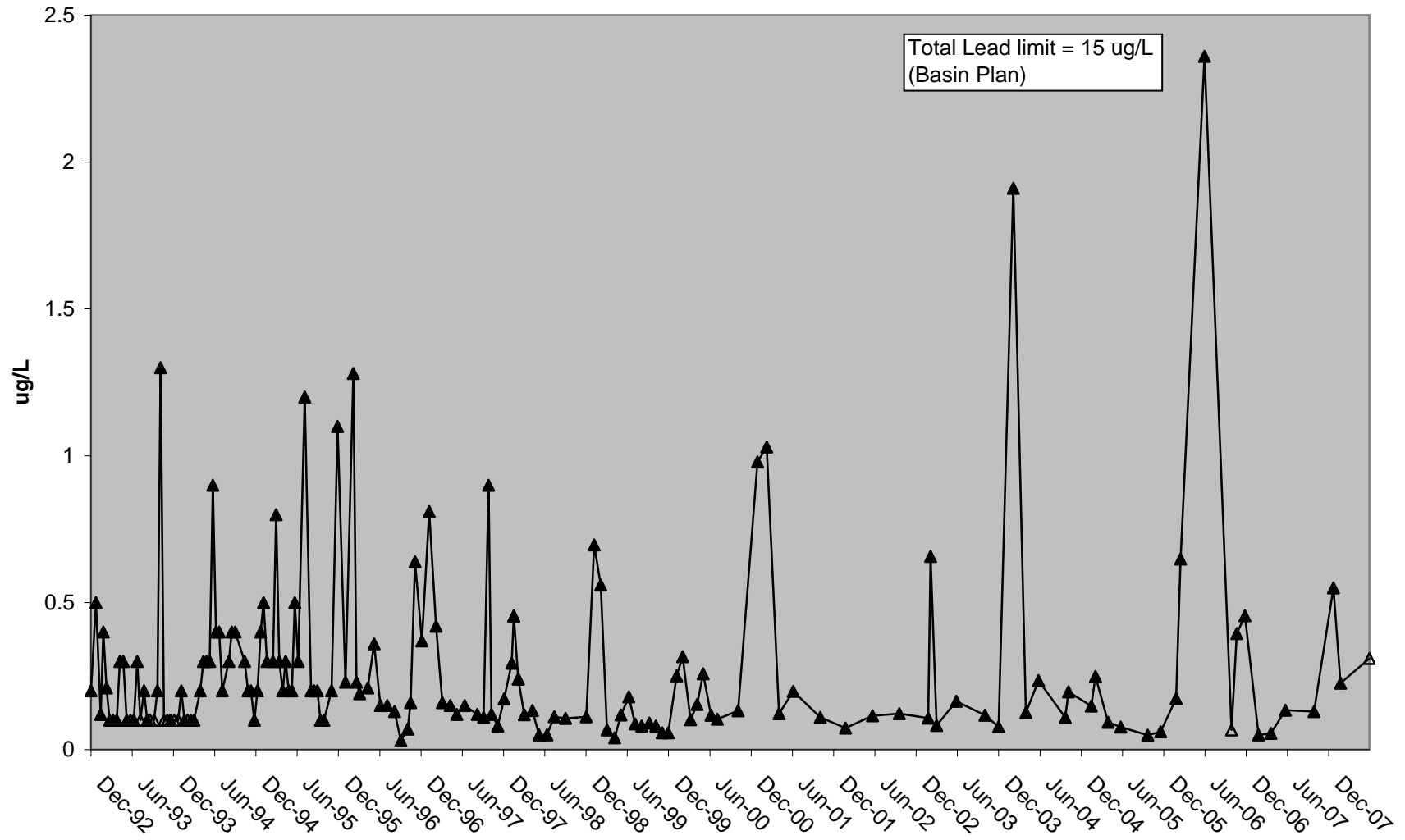
### Discovery Park Dissolved Lead (Pb-d)

— Trendline    △ Below Detection    ▲ Result



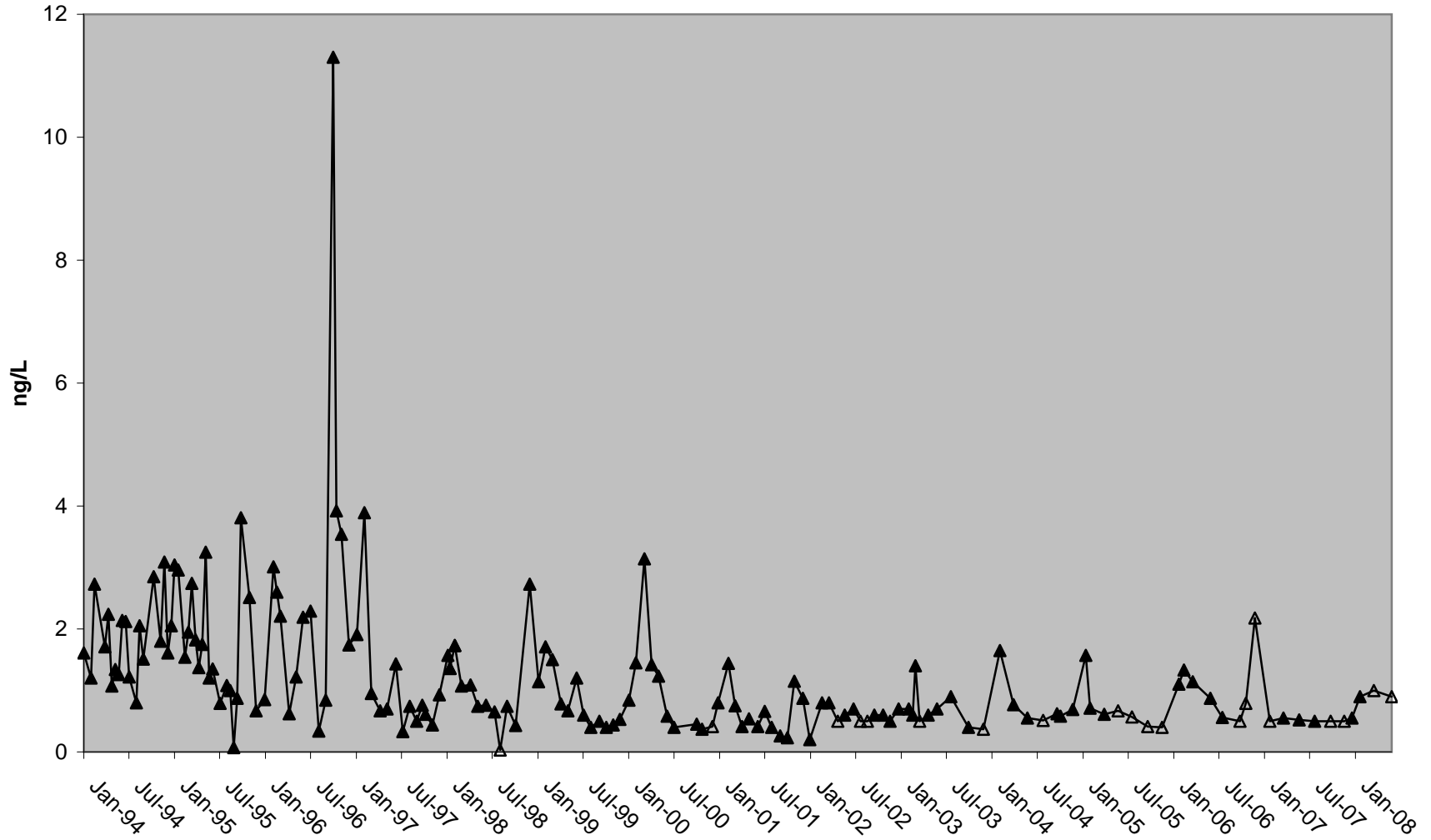
### Discovery Park Total Lead (Pb-T)

— Trendline    △ Below Detection    ▲ Result



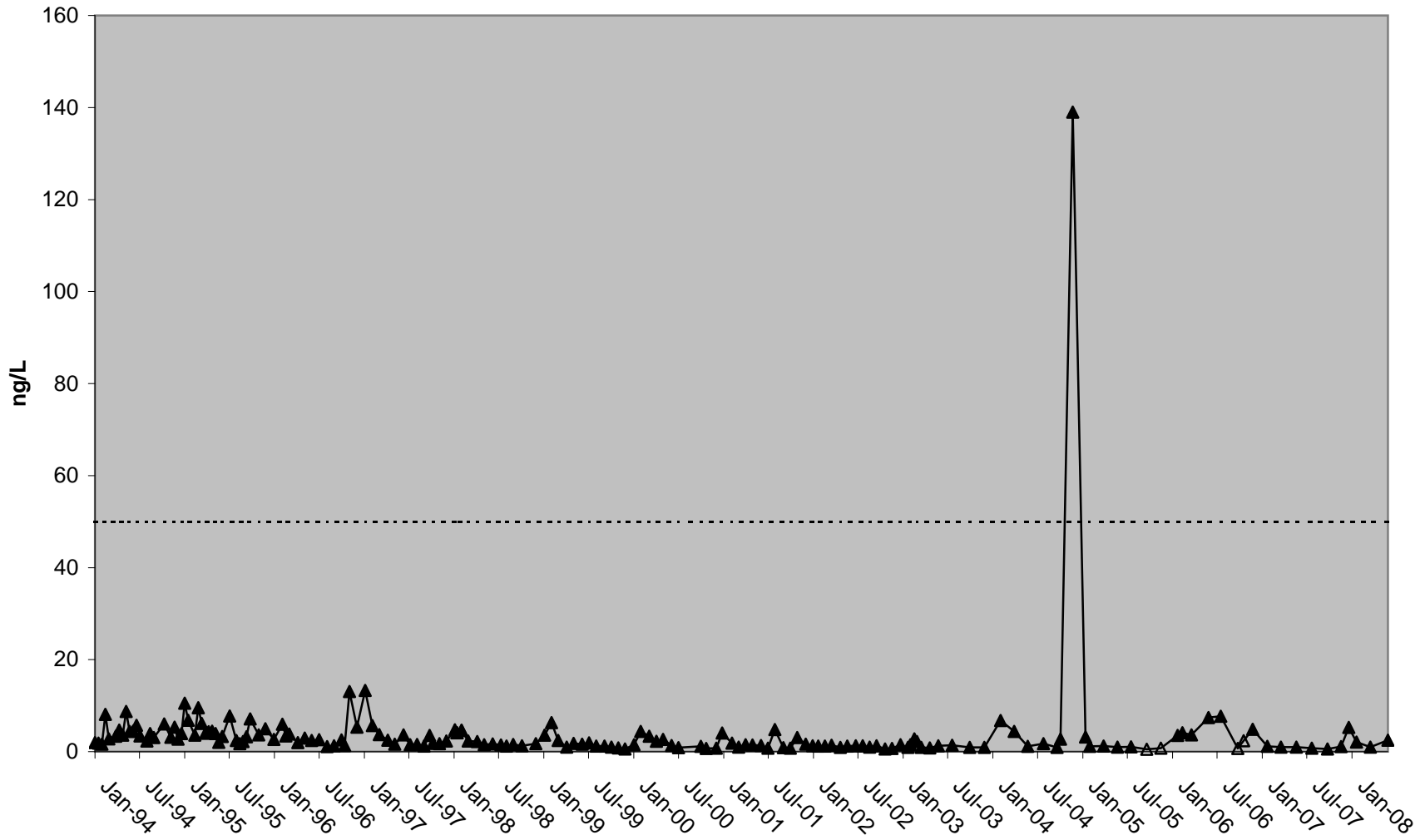
### Discovery Park Filtered Mercury

— Trendline    △ Below Detection    ▲ Result



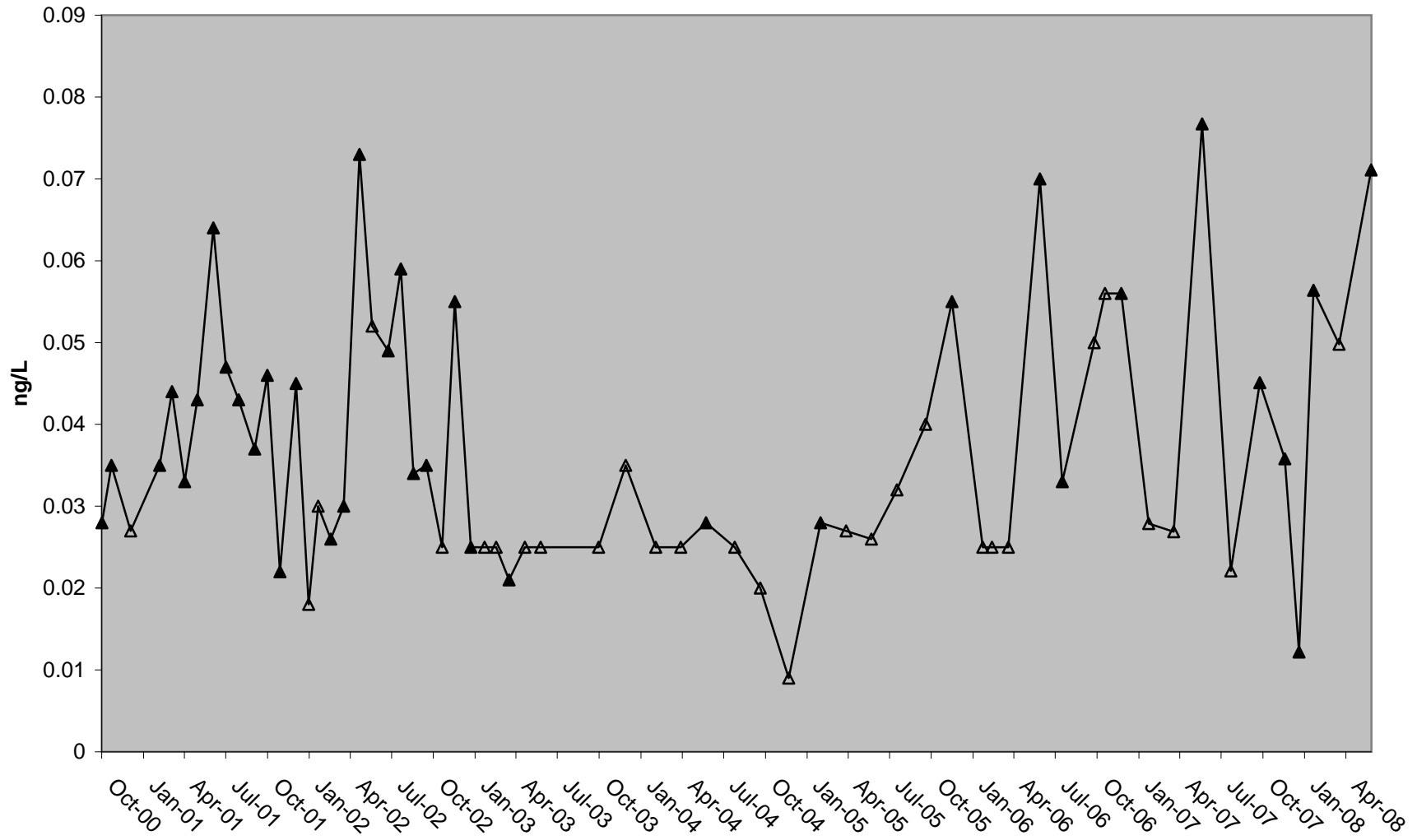
# Discovery Park Unfiltered Mercury

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



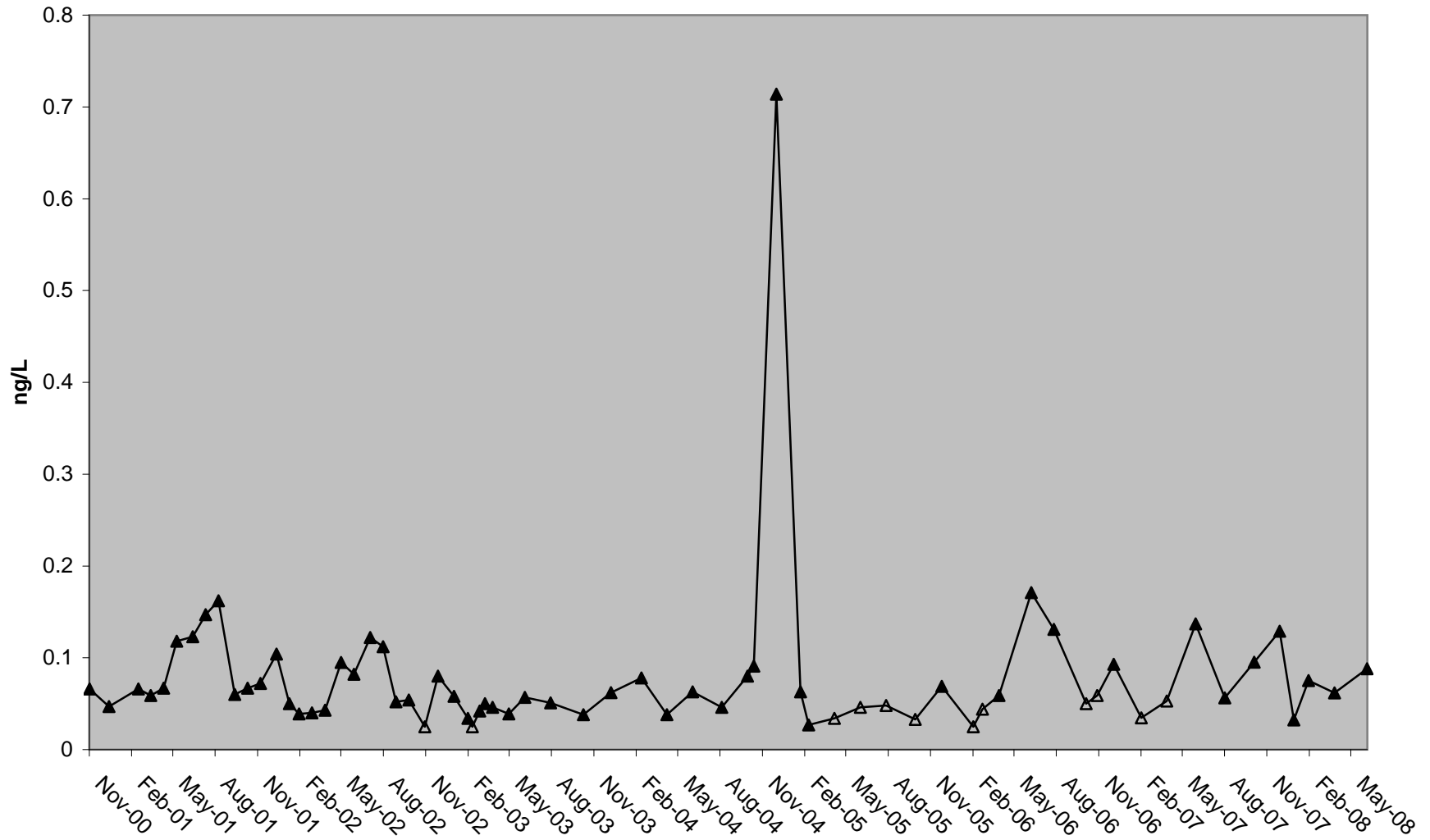
### Discovery Park Filtered Methyl Mercury

— Trendline    Δ Below Detection    ▲ Result



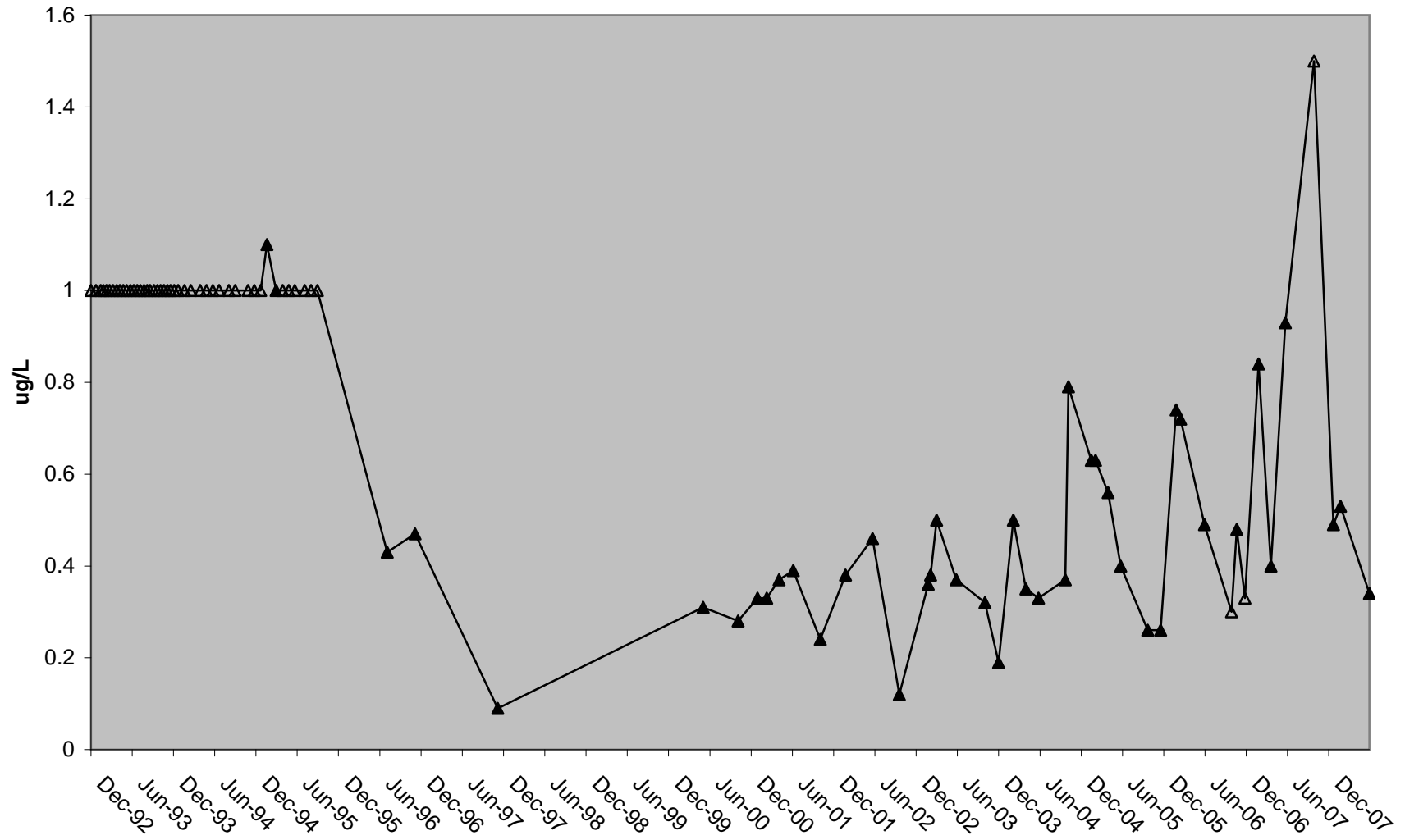
### Discovery Park Unfiltered Methyl Mercury

— Trendline    △ Below Detection    ▲ Result



### Discovery Park Dissolved Nickel (Ni-d)

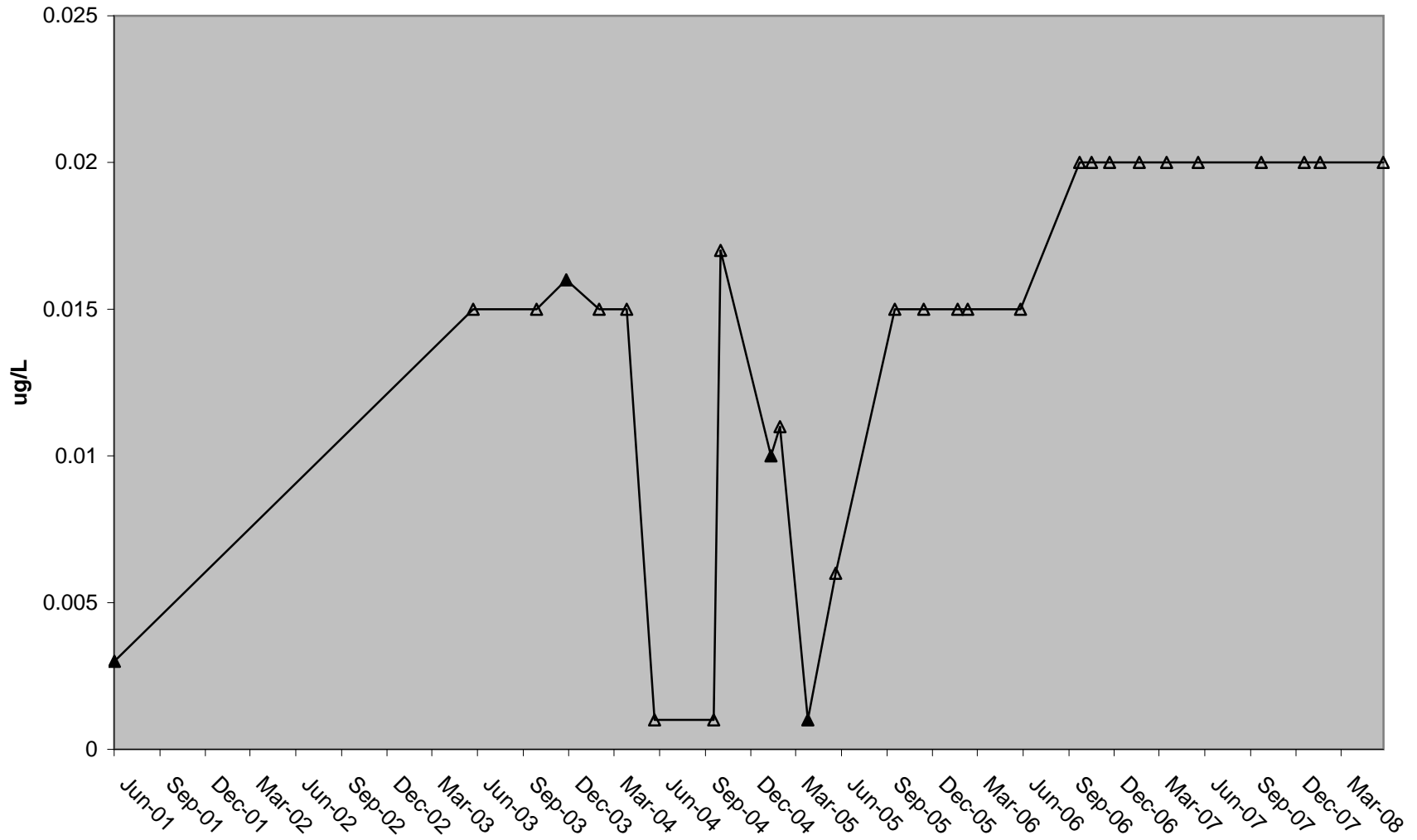
— Trendline    △ Below Detection    ▲ Result





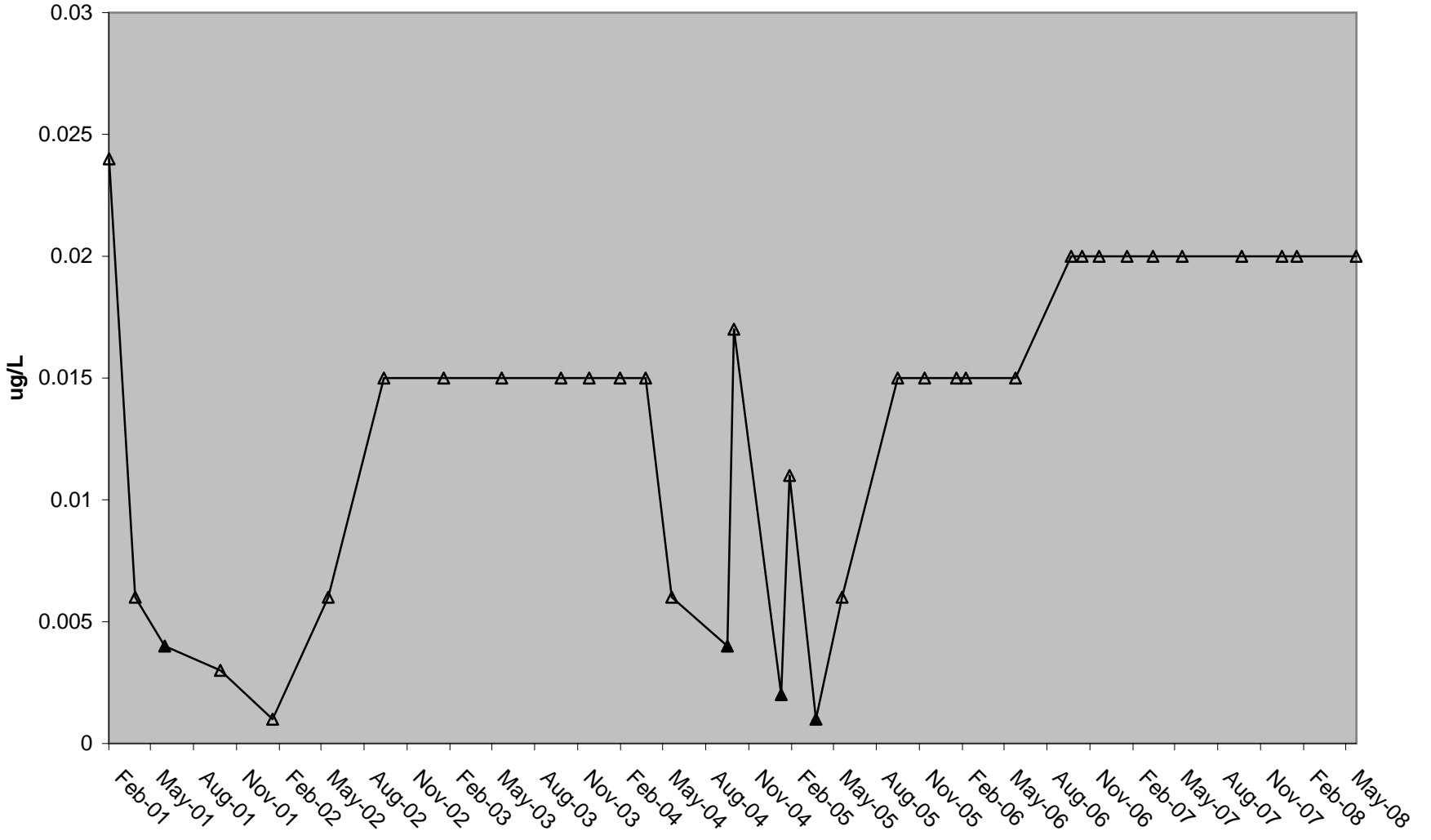
### Discovery Park Dissolved Silver (Ag-d)

— Trendline    △ Below Detection    ▲ Result



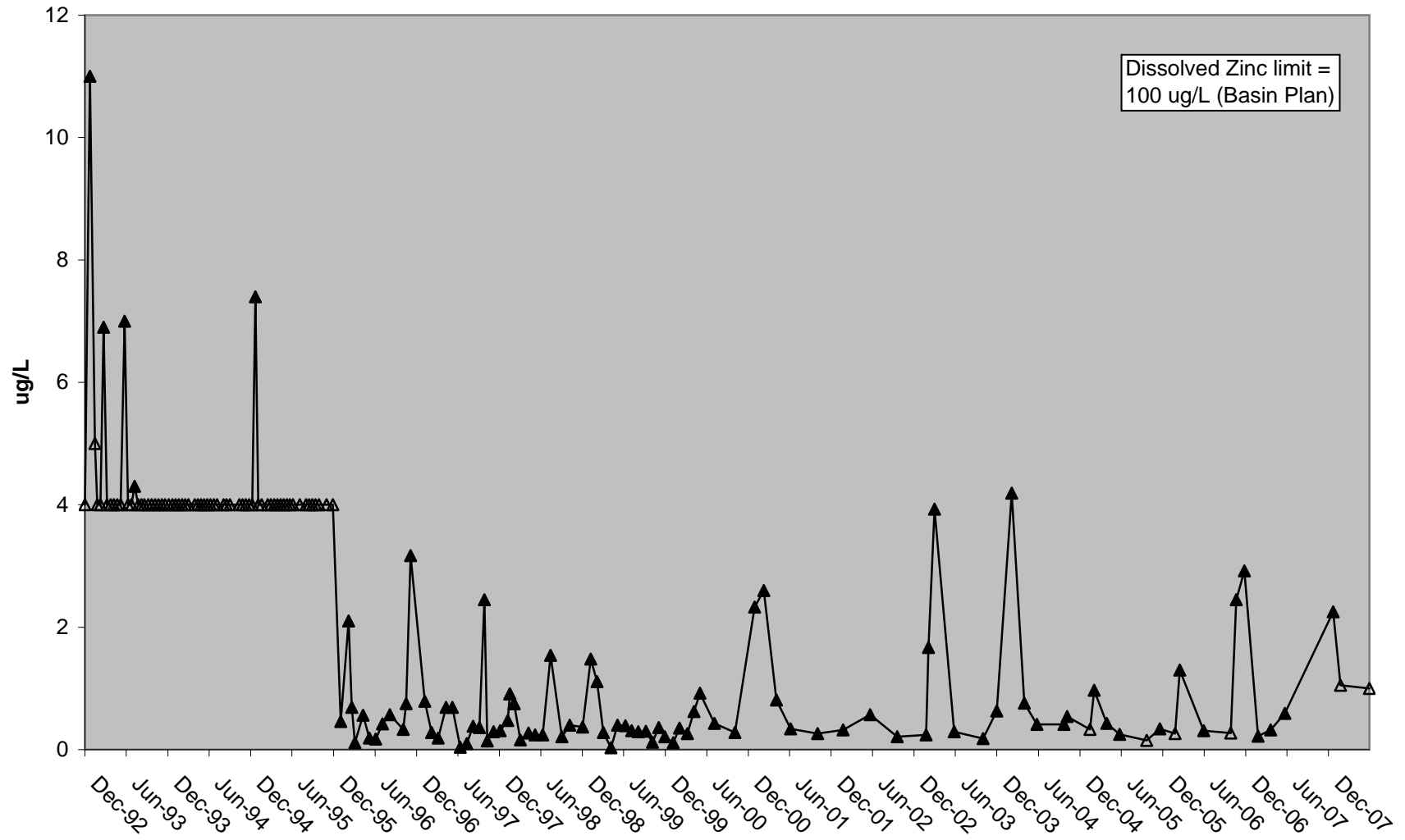
### Discovery Park Total Silver (Ag-T)

— Trendline    △ Below Detection    ▲ Result



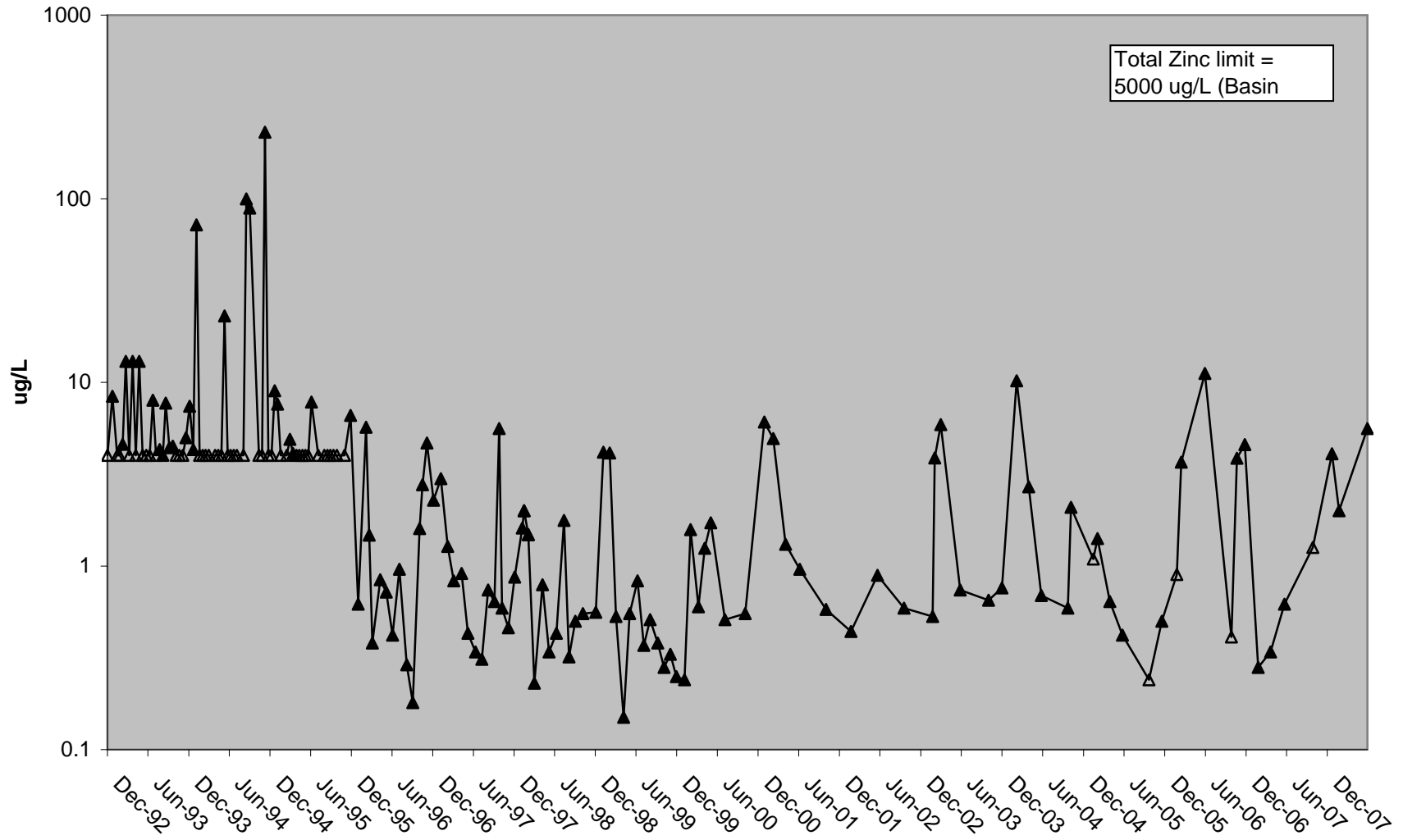
### Discovery Park Dissolved Zinc (Zn-d)

— Trendline    △ Below Detection    ▲ Result



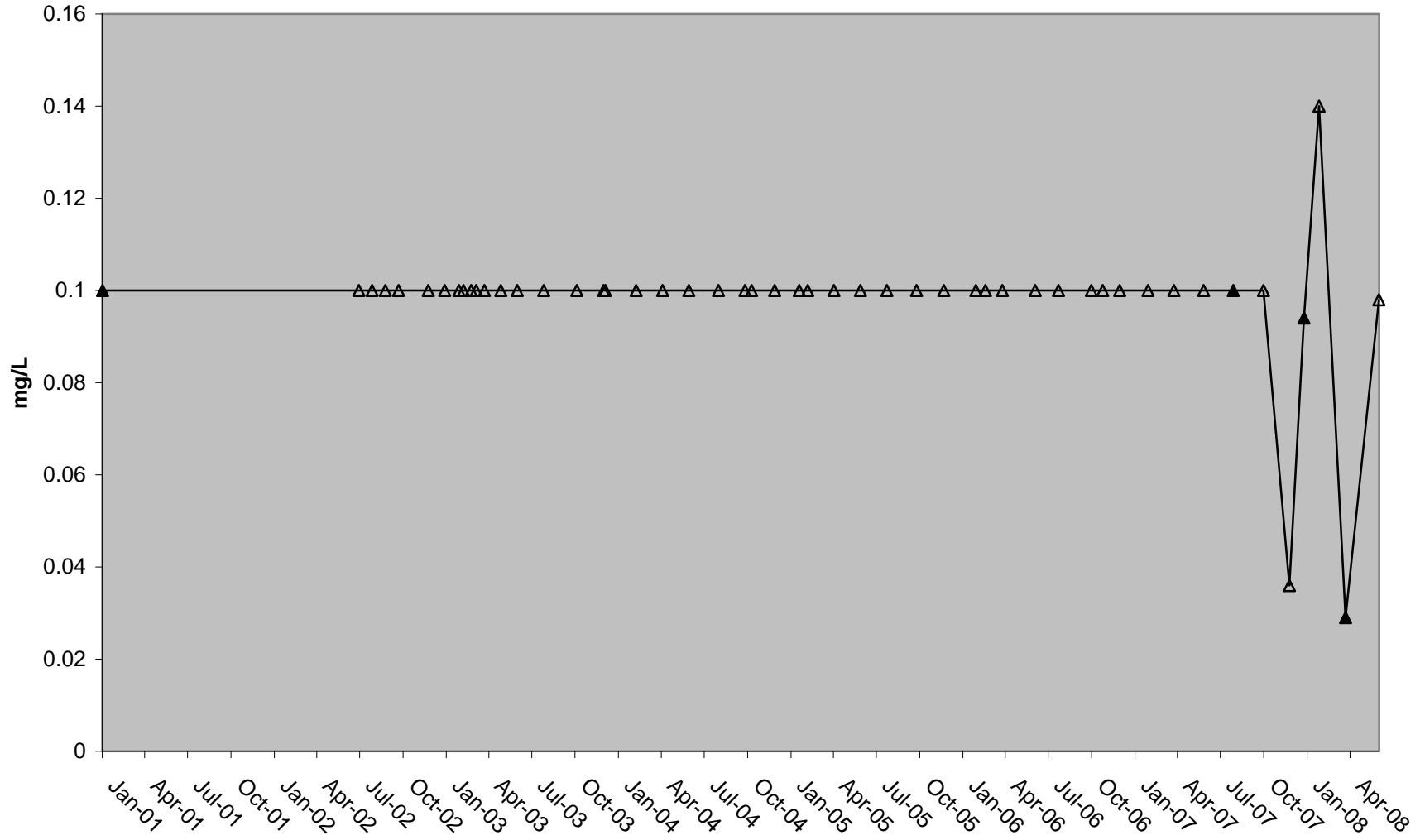
### Discovery Park Total Zinc (Zn-T)

— Trendline    △ Below Detection    ▲ Result



### Discovery Park Ammonia (NH<sub>3</sub>-N)

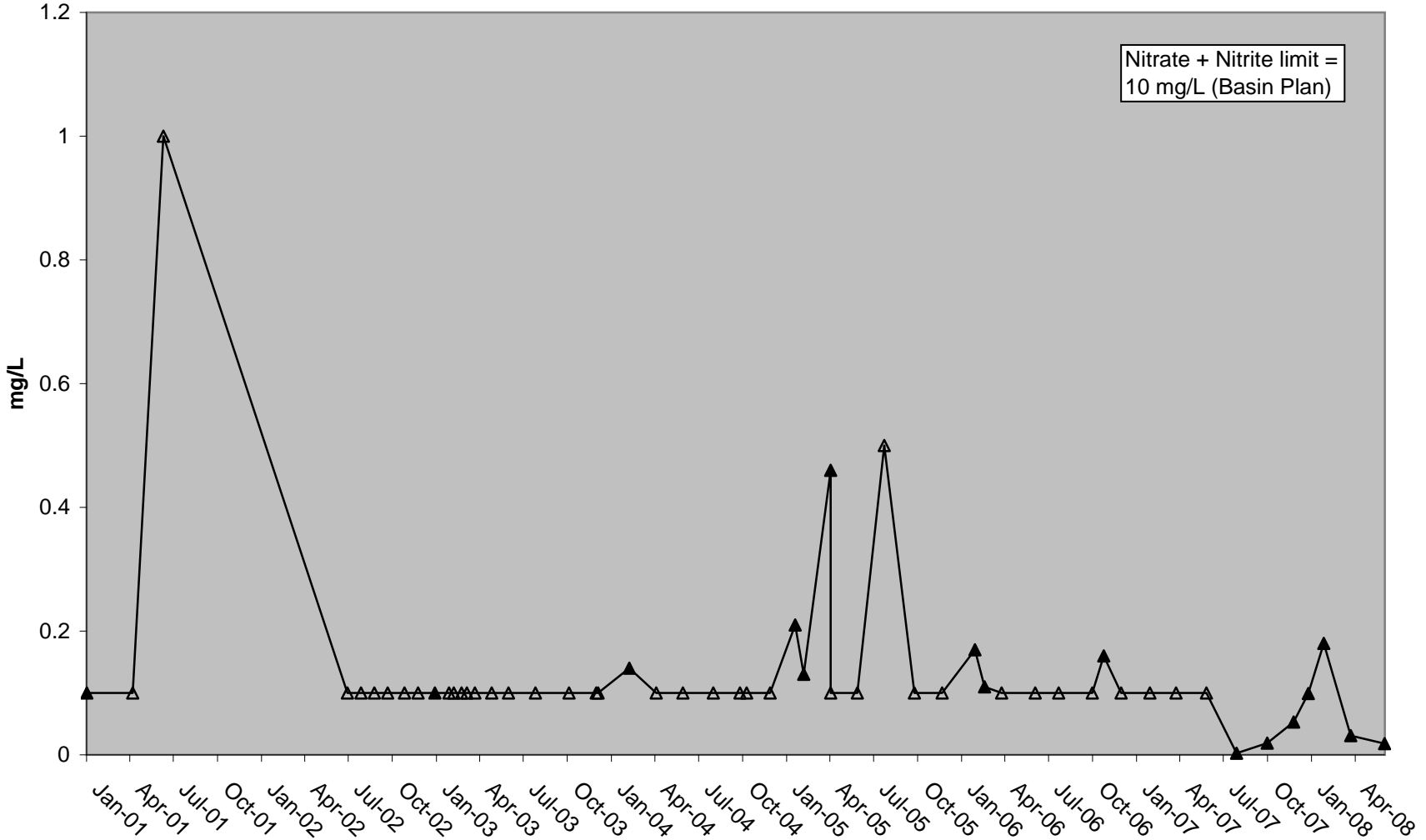
— Trendline    Δ Below Detection    ▲ Result



### Discovery Park Nitrate (NO<sub>3</sub>-N)

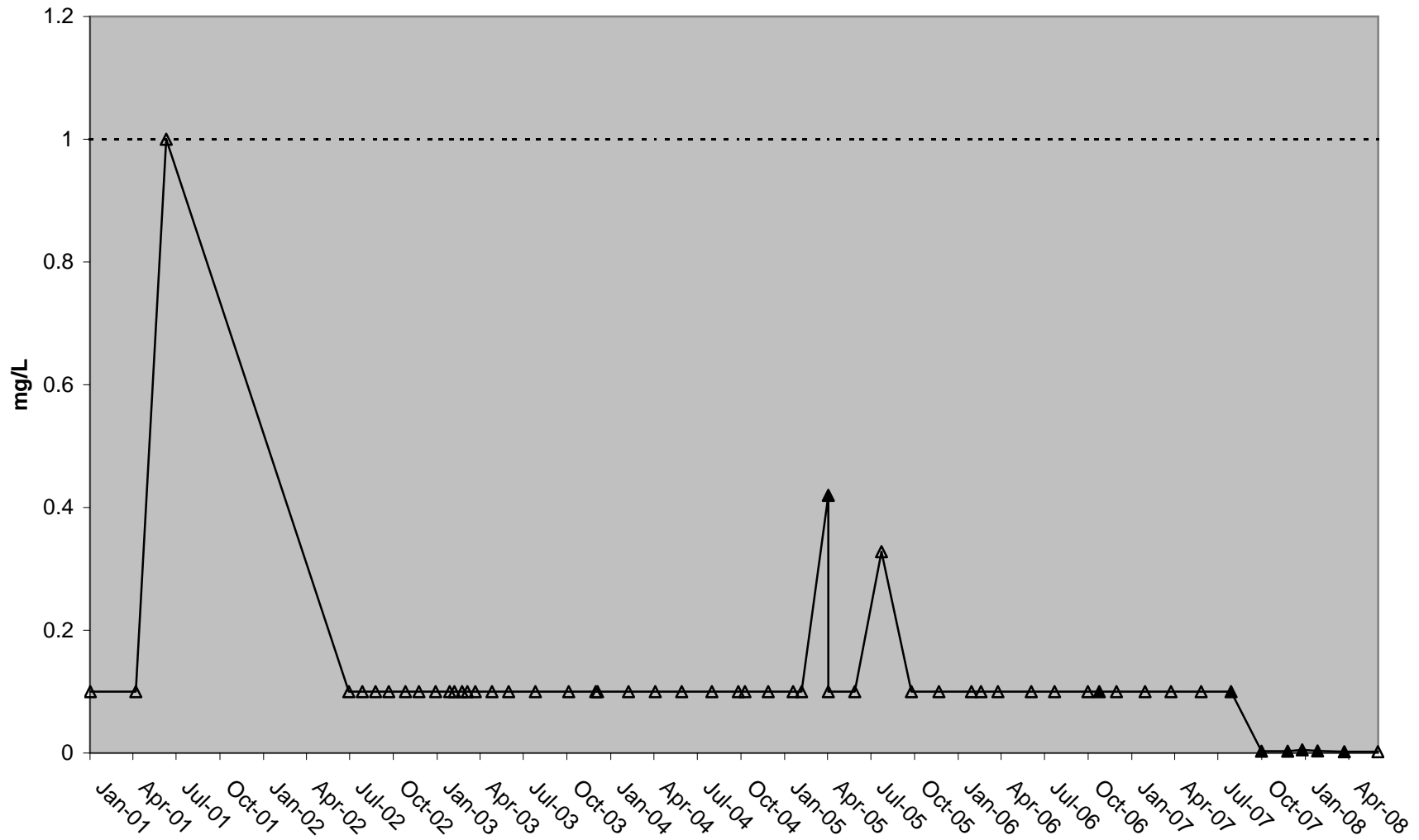
— Trendline    △ Below Detection    ▲ Result

Nitrate + Nitrite limit =  
10 mg/L (Basin Plan)



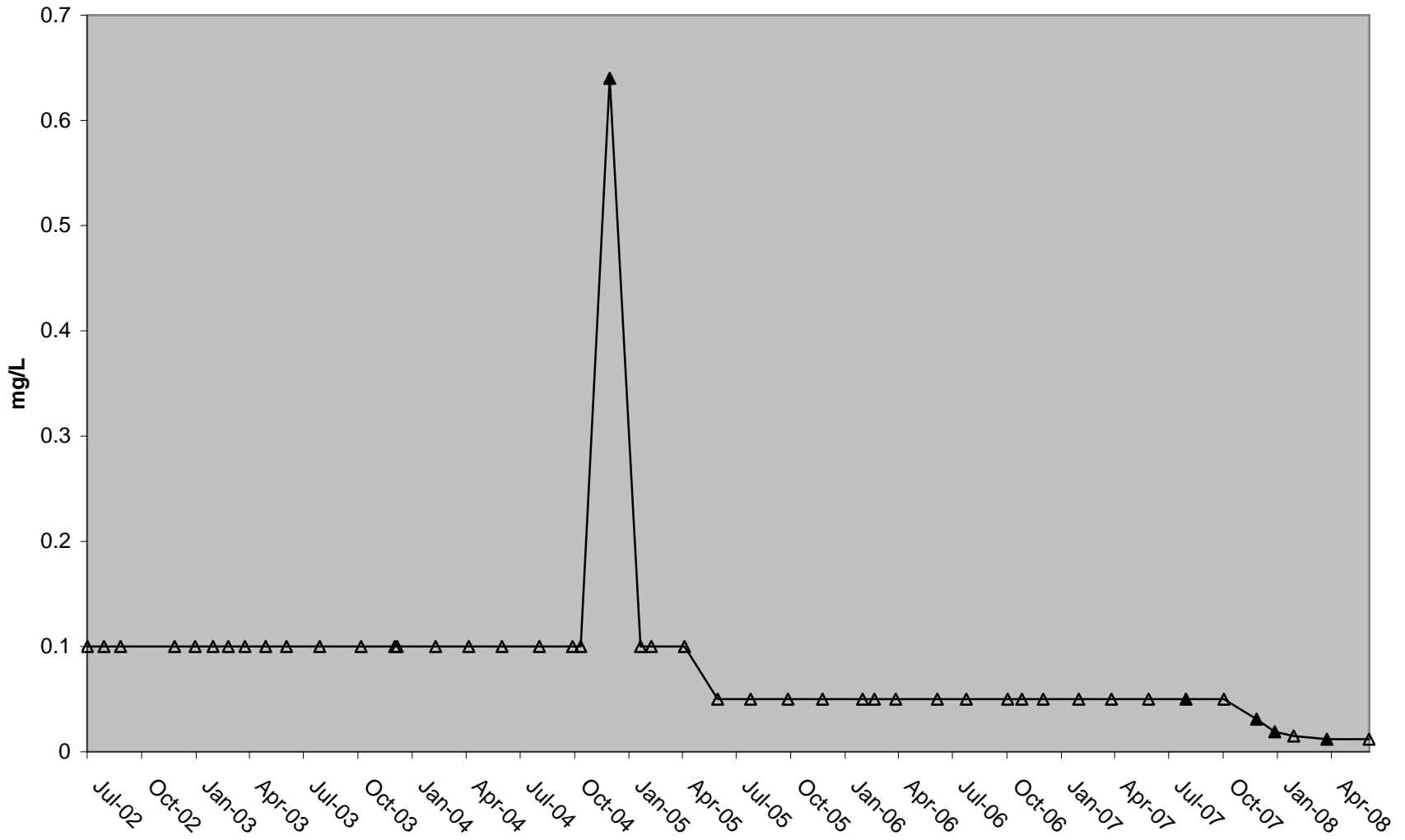
### Discovery Park Nitrite (NO<sub>2</sub>-N)

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



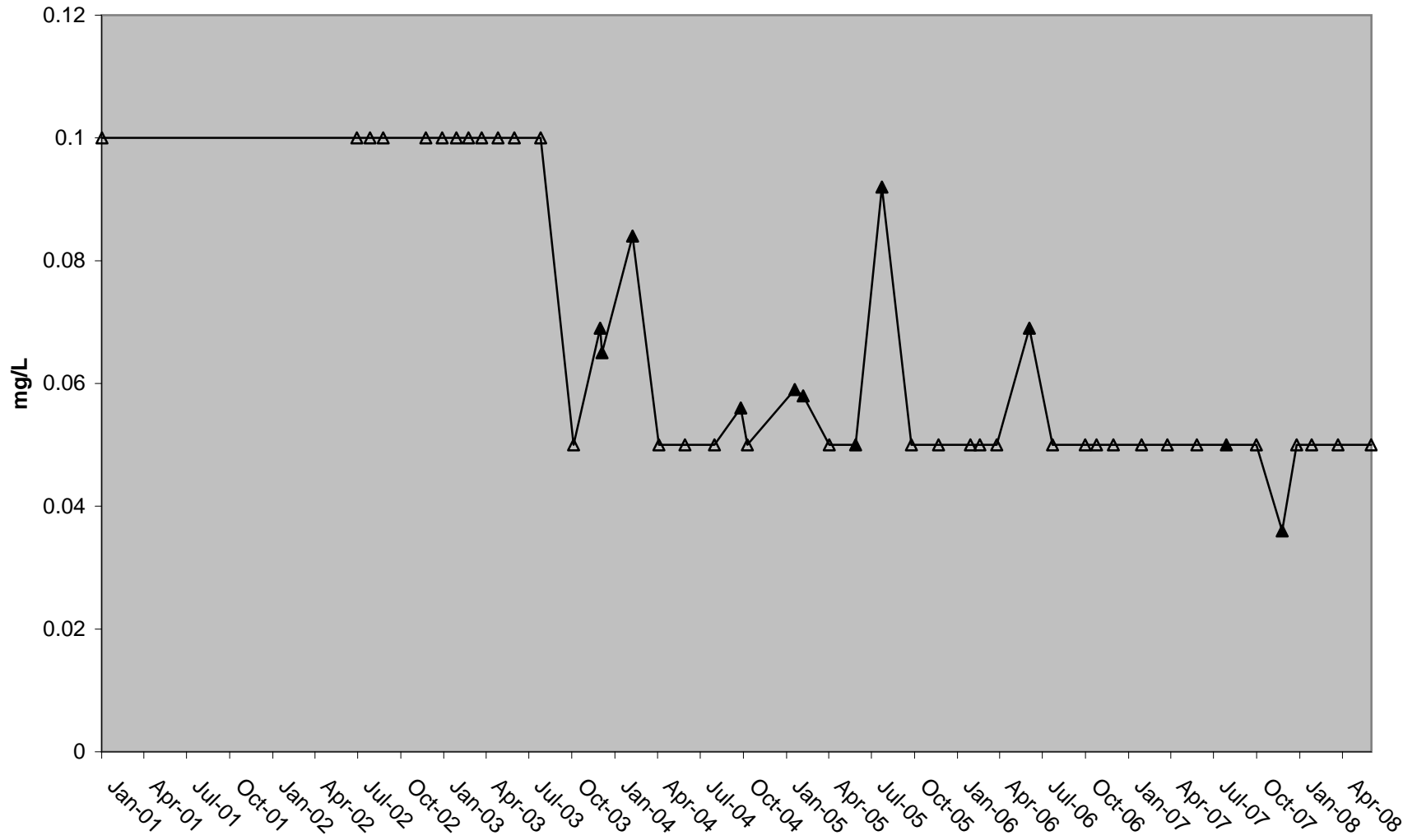
### Discovery Park Dissolved Orthophosphate

— Trendline    △ Below Detection    ▲ Result



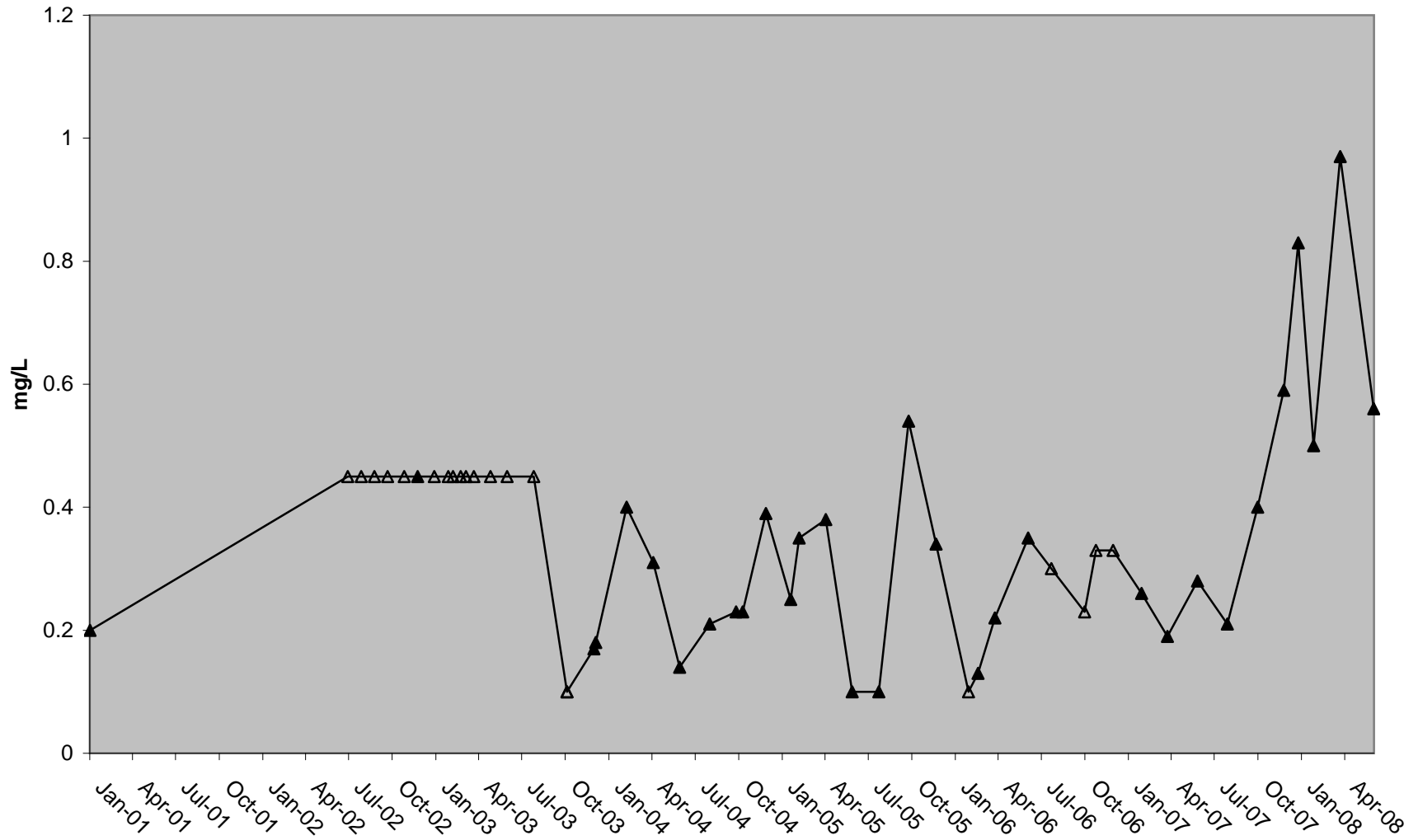
### Discovery Park Total Phosphorus (TP)

— Trendline    Δ Below Detection    ▲ Result

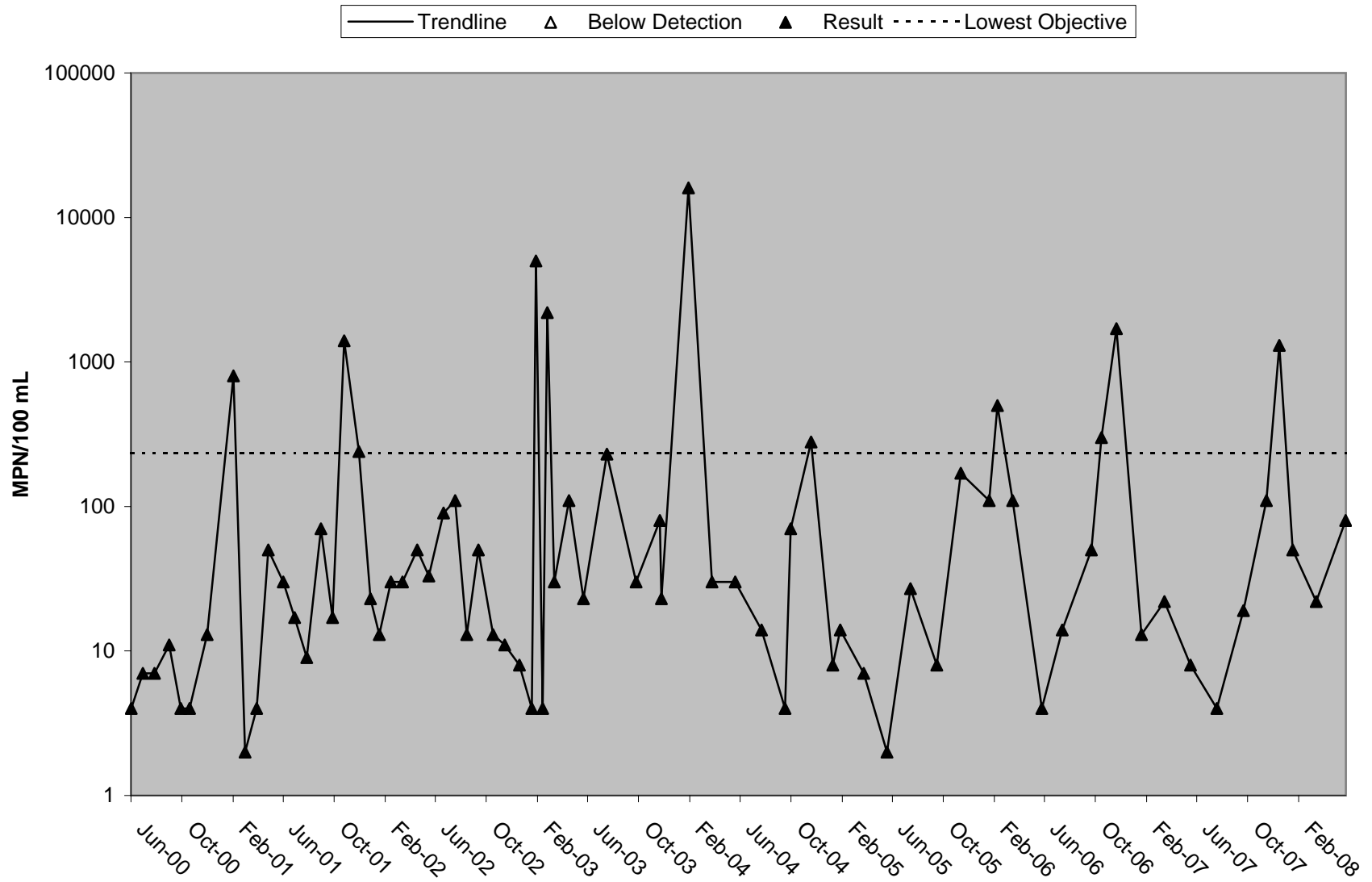


### Discovery Park Total Kjeldahl Nitrogen (TKN)

— Trendline    △ Below Detection    ▲ Result

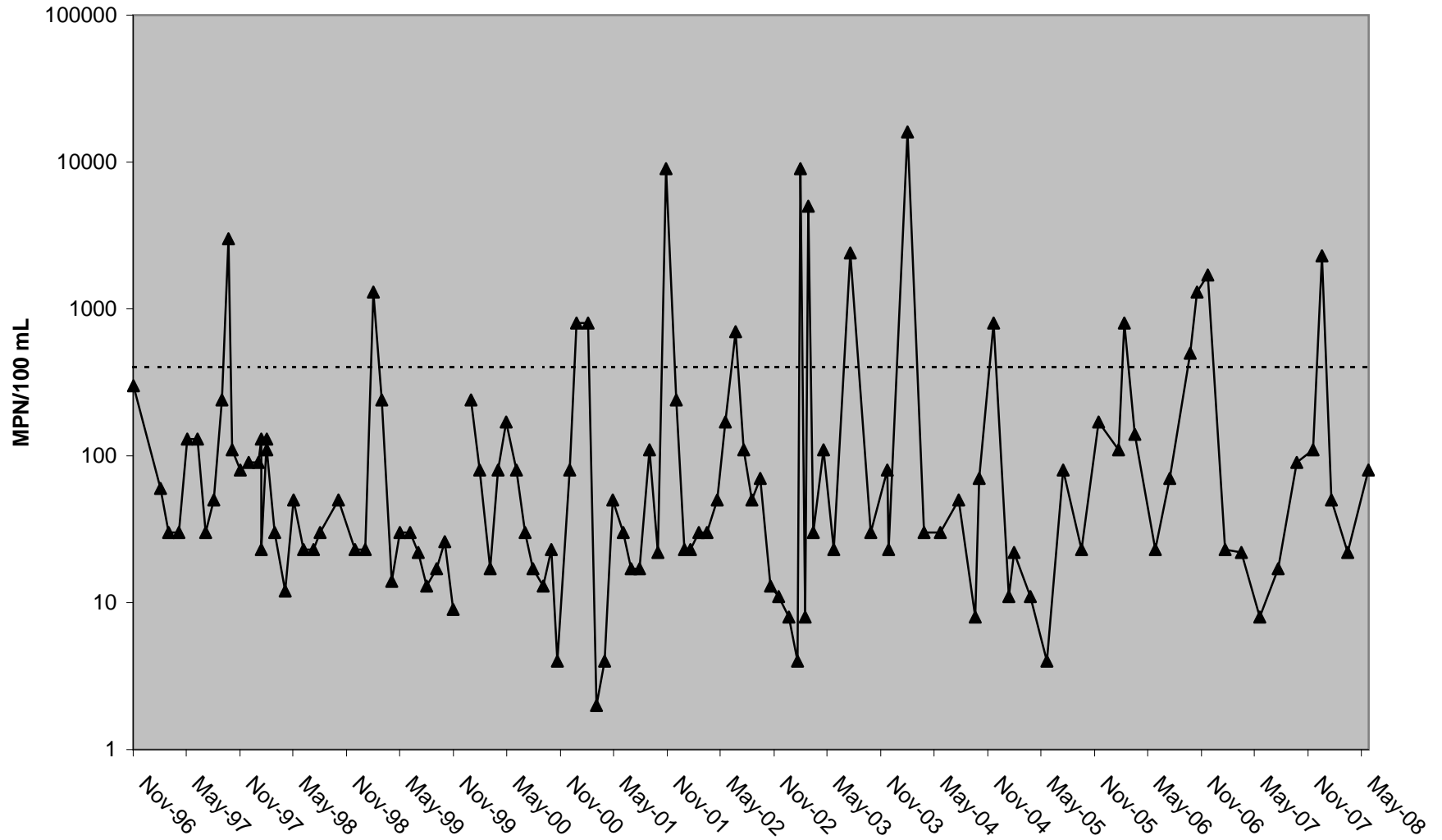


### Discovery Park *E. coli*



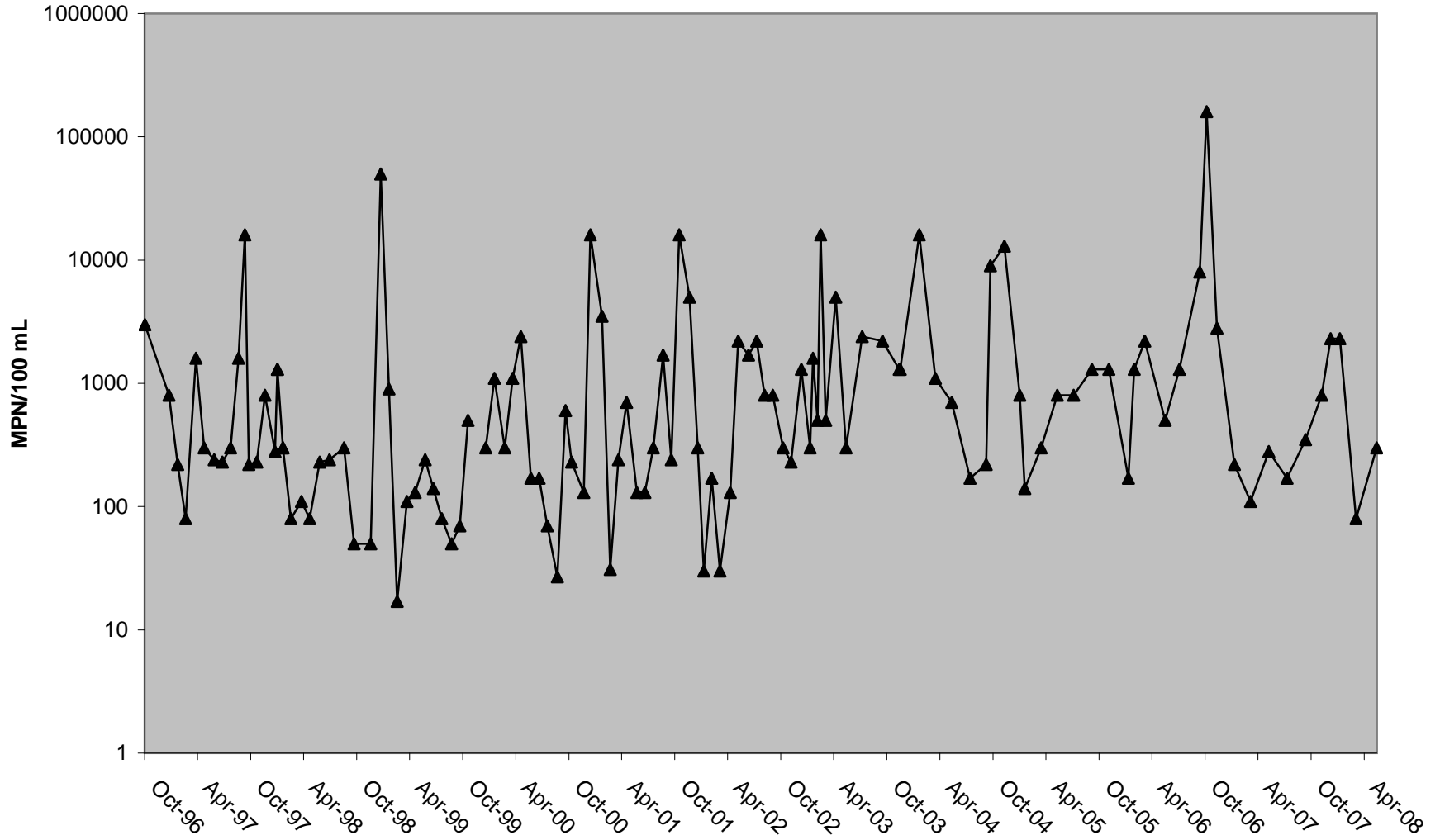
# Discovery Park Fecal Coliform

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



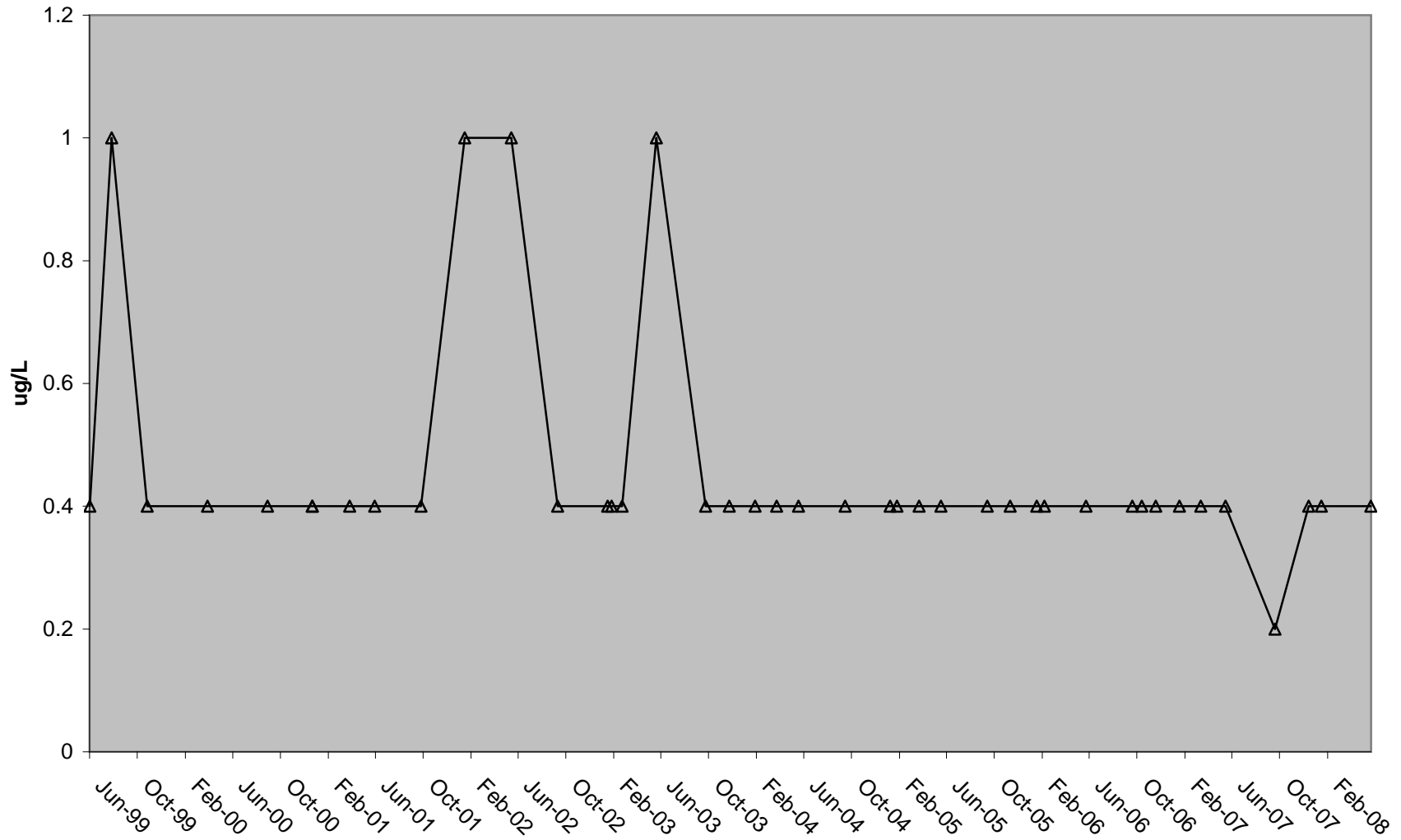
### Discovery Park Total Coliform

— Trendline    △ Below Detection    ▲ Result



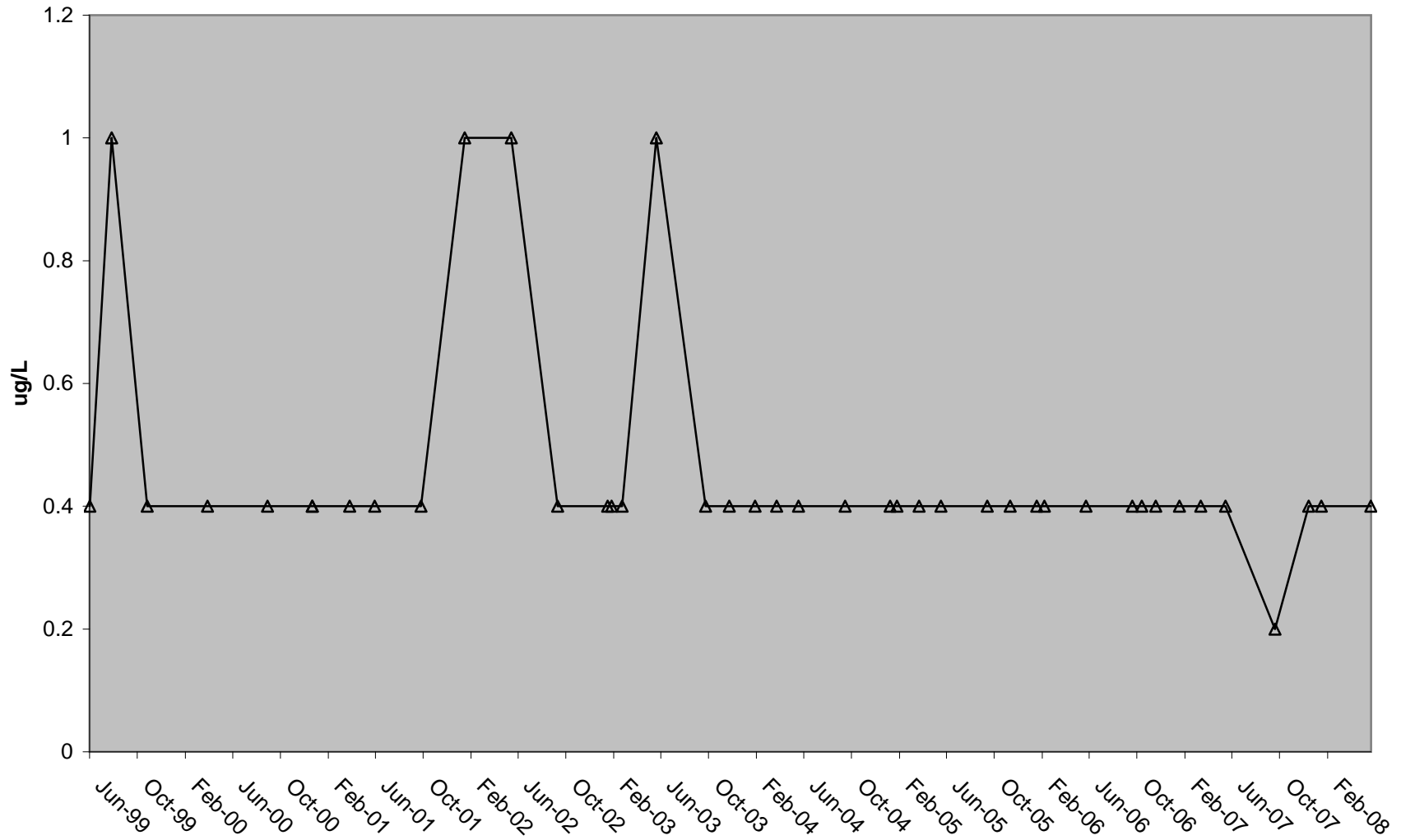
# Discovery Park Aldicarb

— Trendline    △ Below Detection    ▲ Result



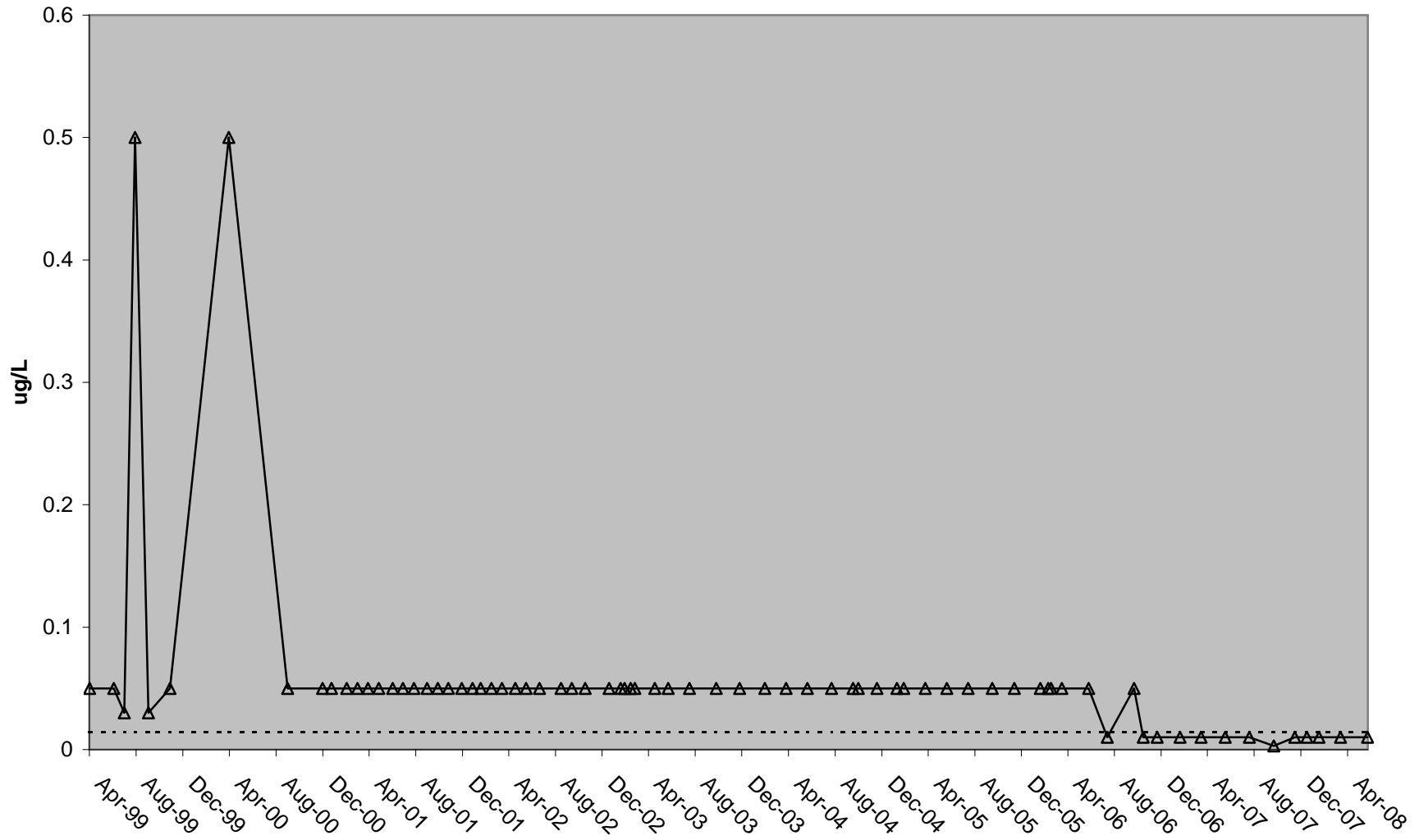
# Discovery Park Propoxur

— Trendline    △ Below Detection    ▲ Result



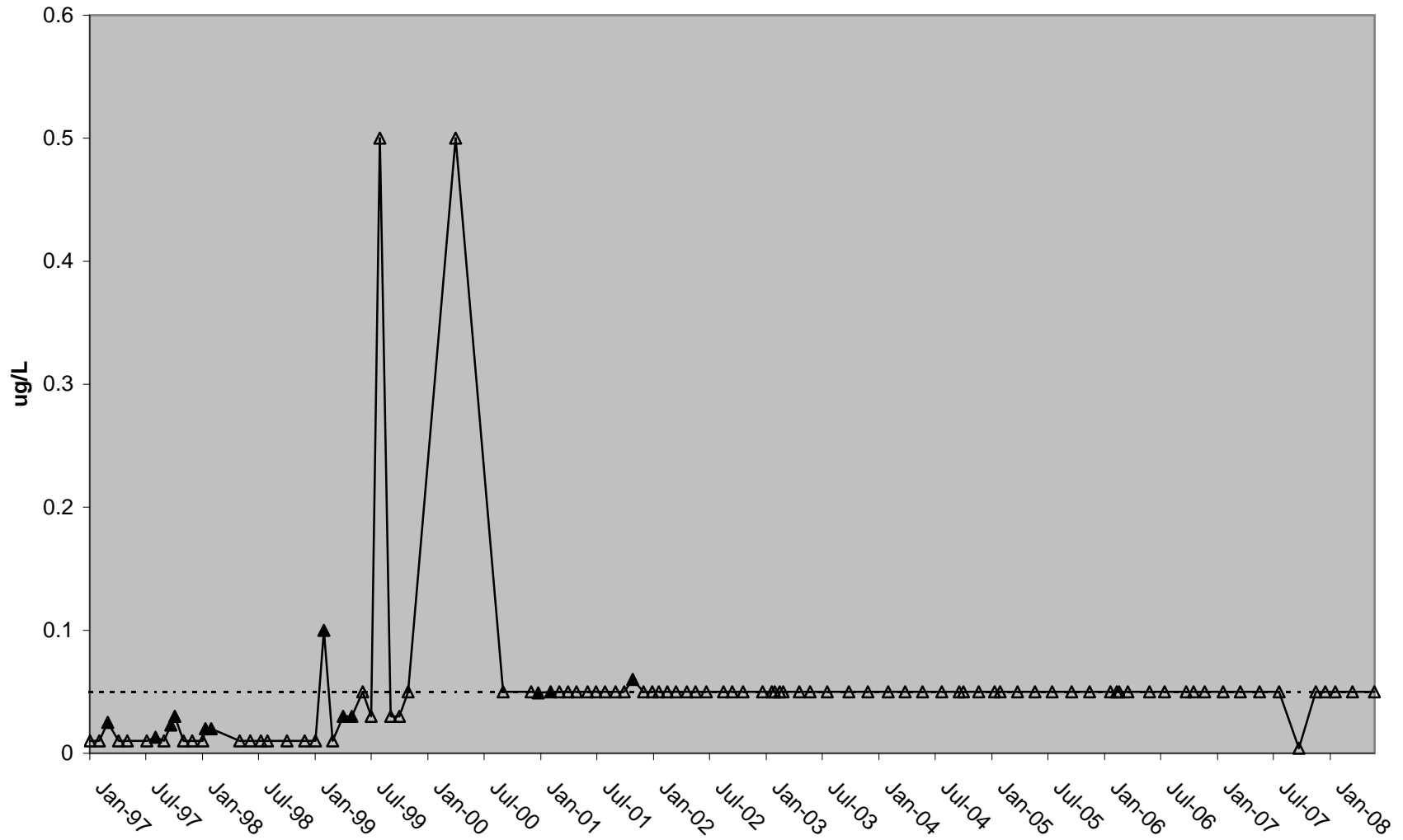
# Discovery Park Chlorpyrifos

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



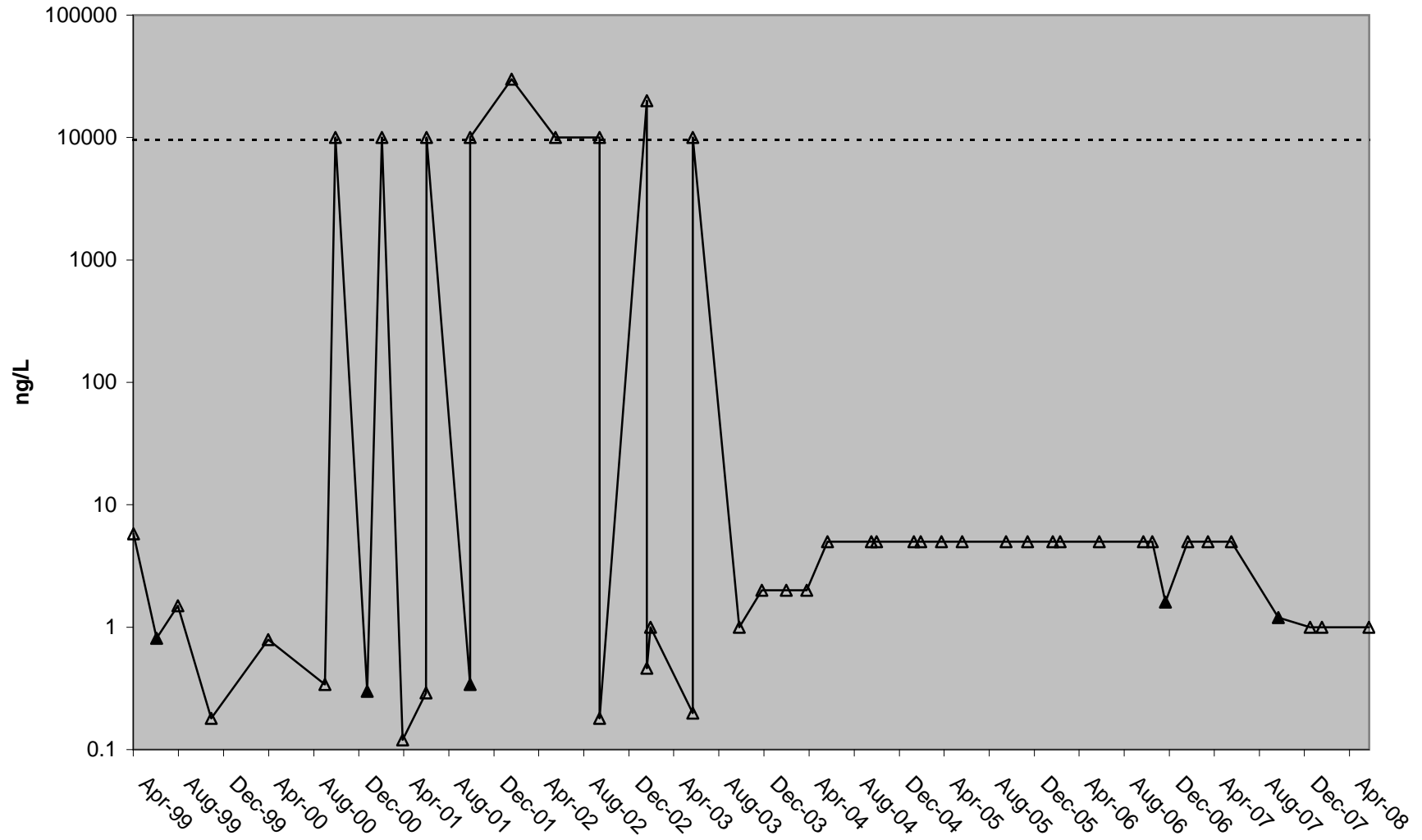
# Discovery Park Diazinon

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



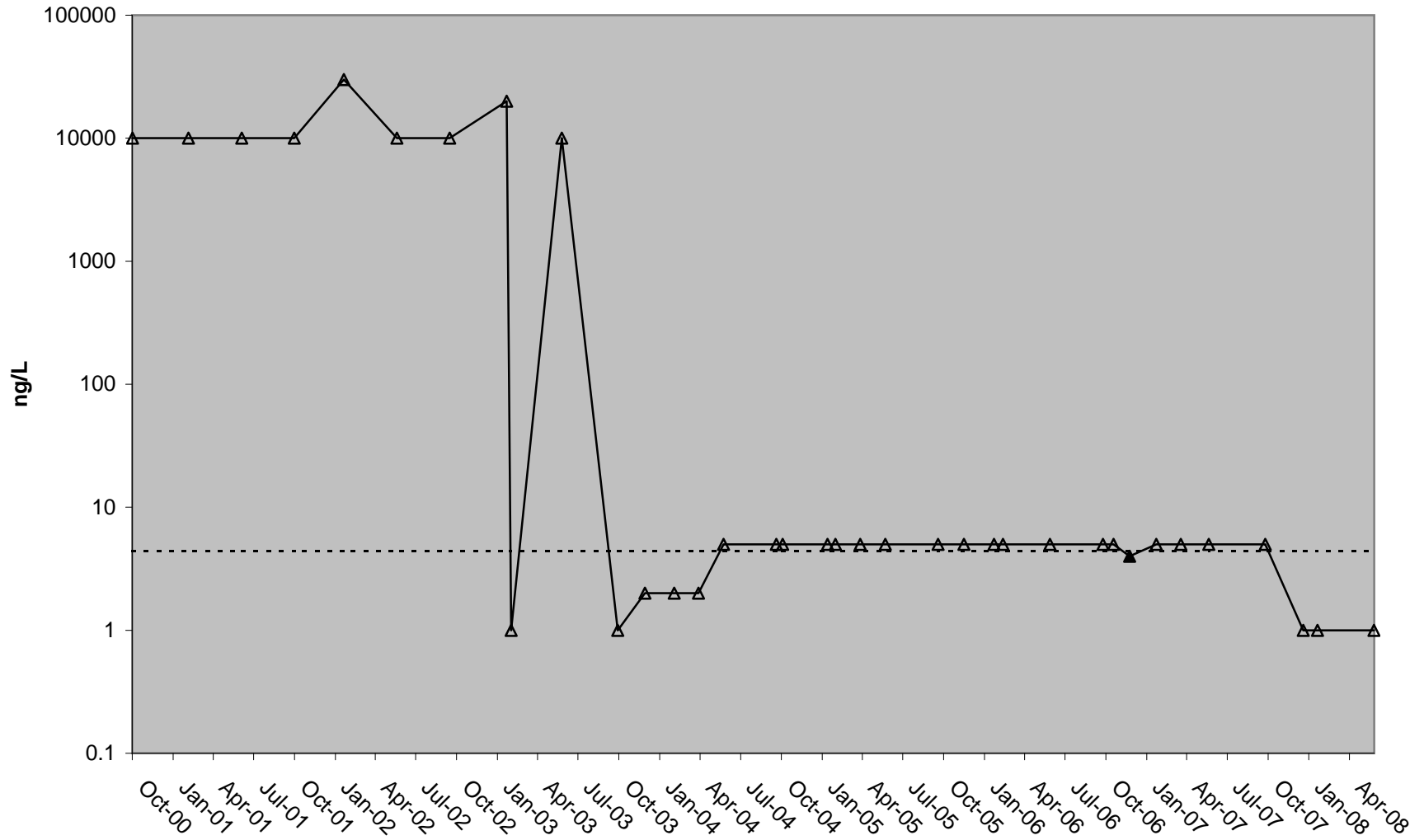
# Discovery Park Anthracene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



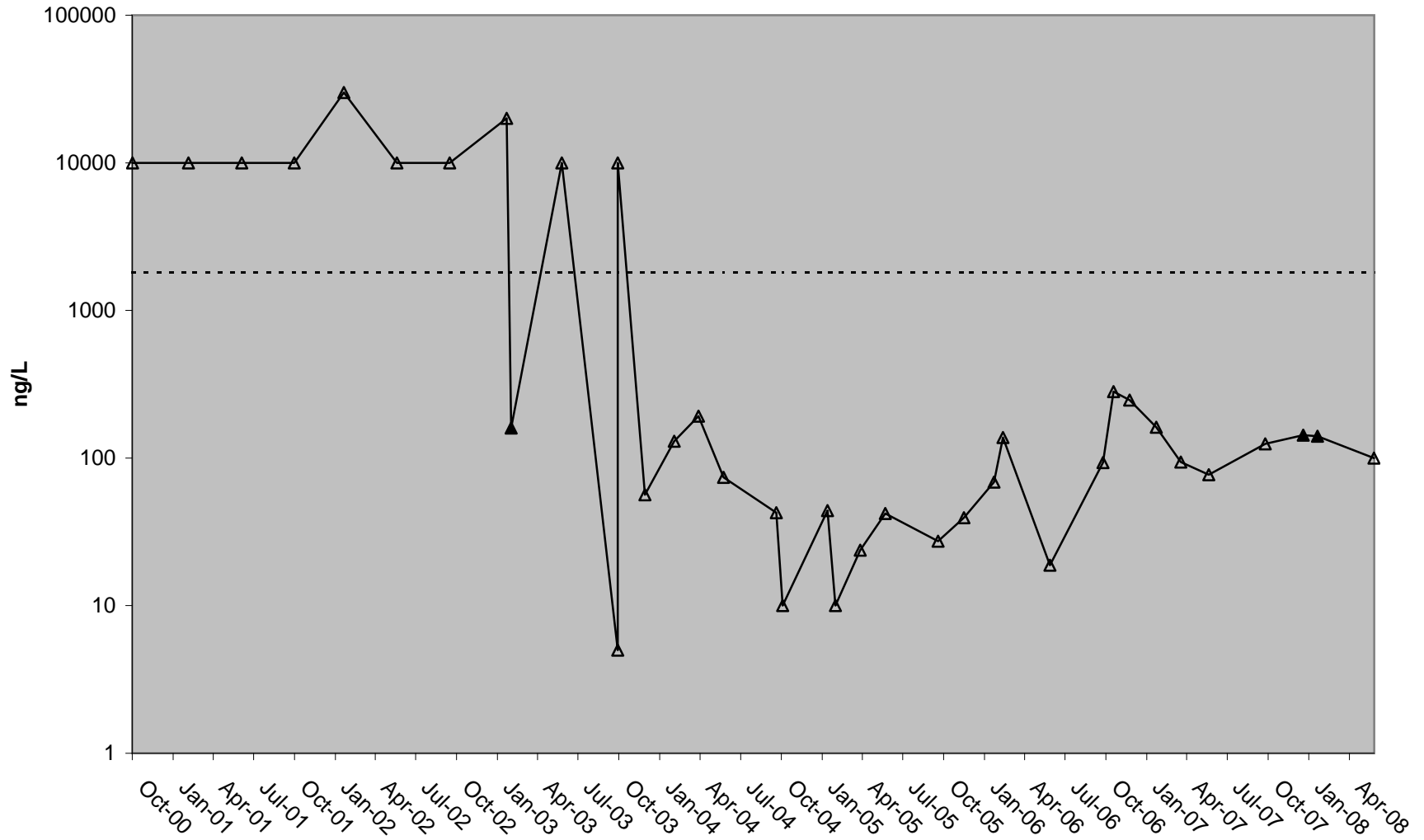
### Discovery Park Benzo(k)fluoranthene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



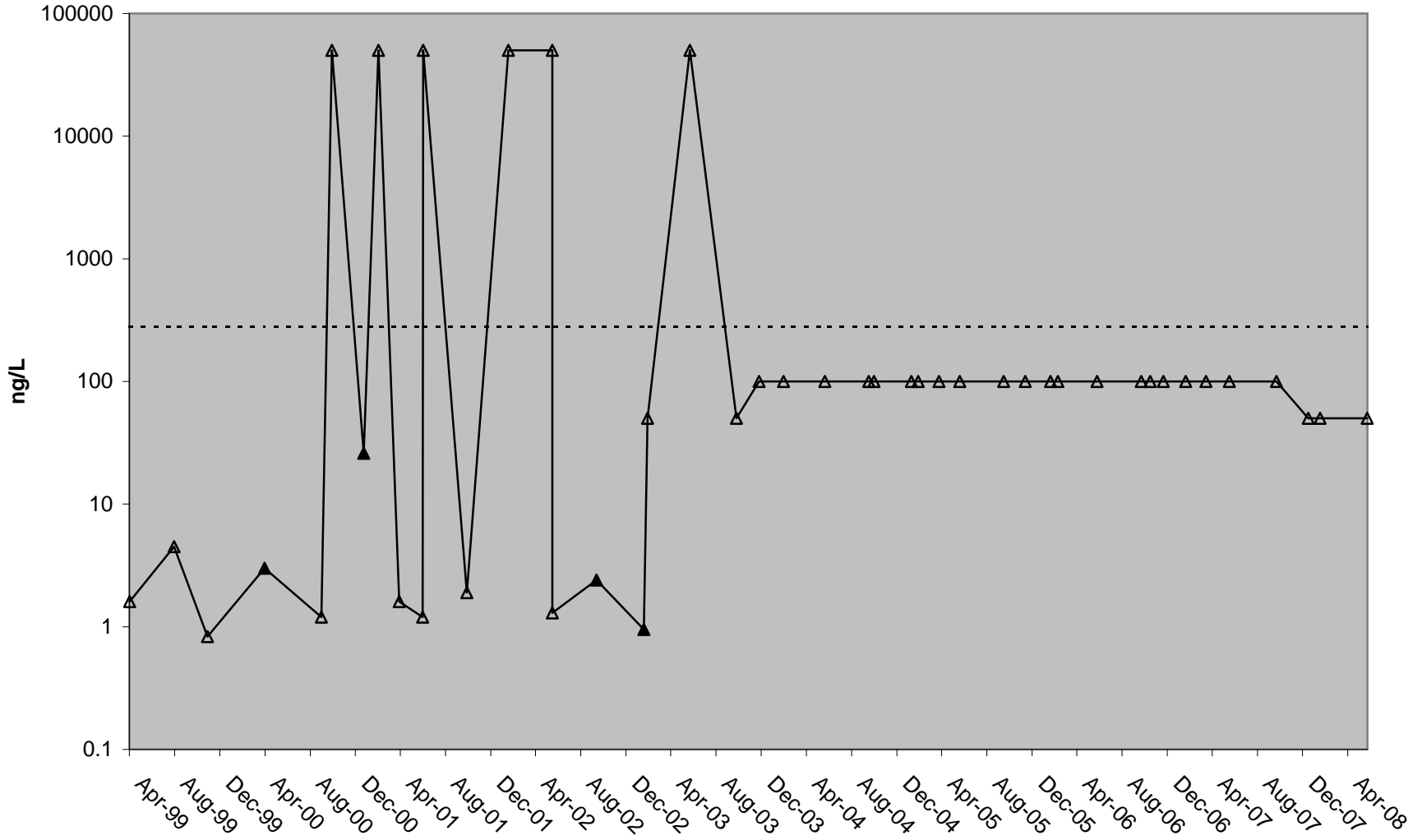
# Discovery Park Bis(2-ethylhexyl) phthalate

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



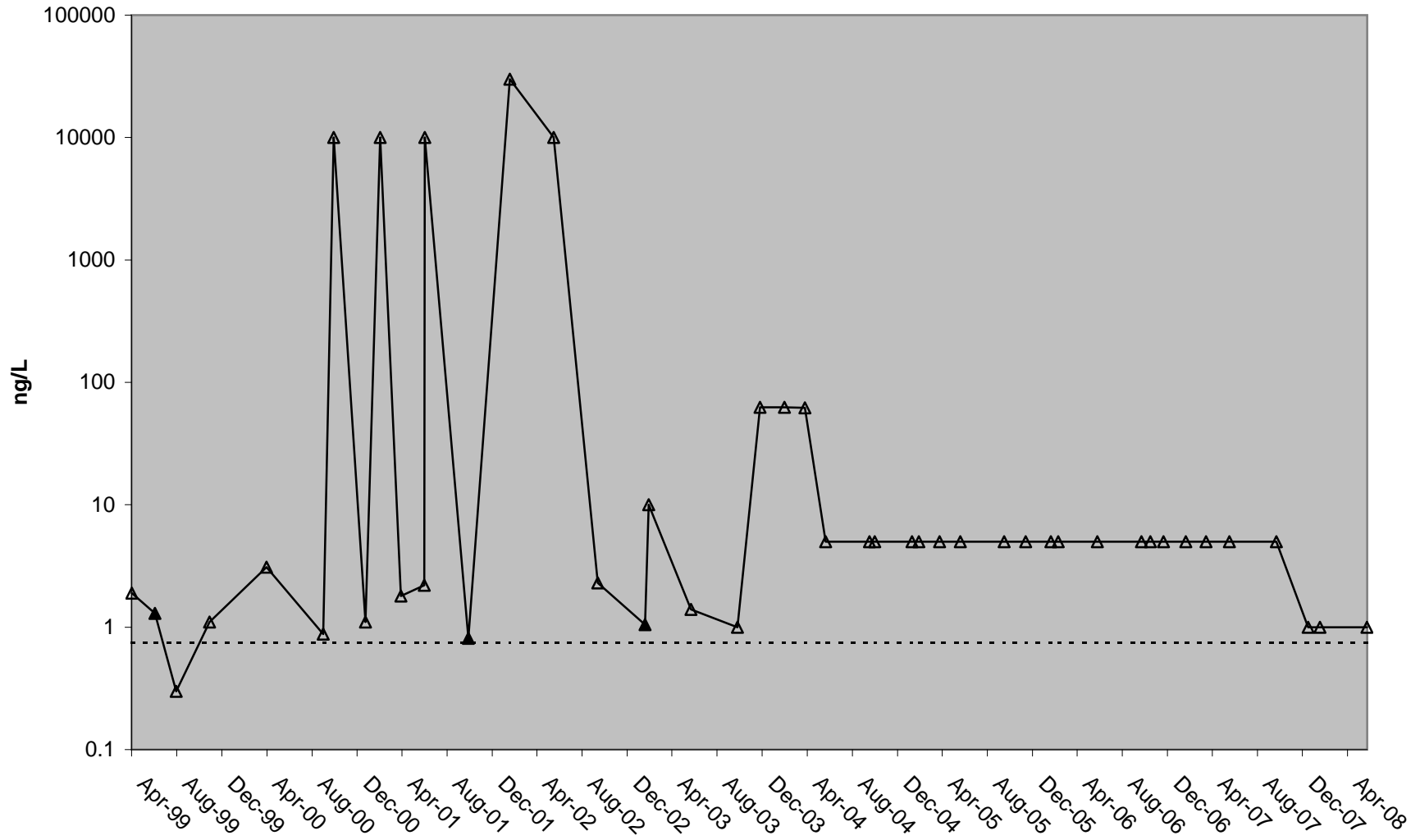
# Discovery Park Pentachlorophenol

— Trendline    △ Below Detection    ▲ Result    - - - - - Lowest Objective



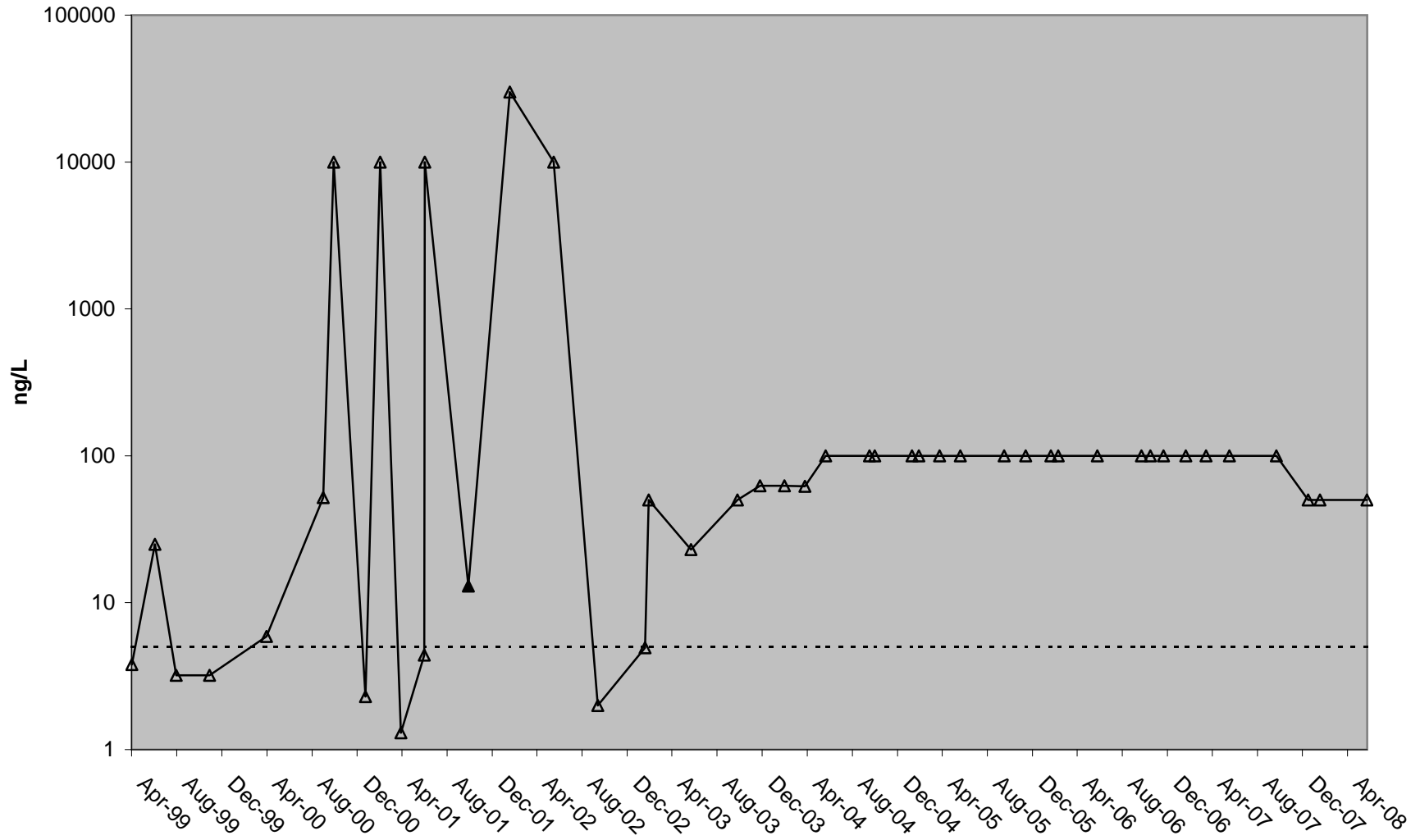
# Discovery Park Hexachlorobenzene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



# Discovery Park N-Nitroso-di-n-propylamine

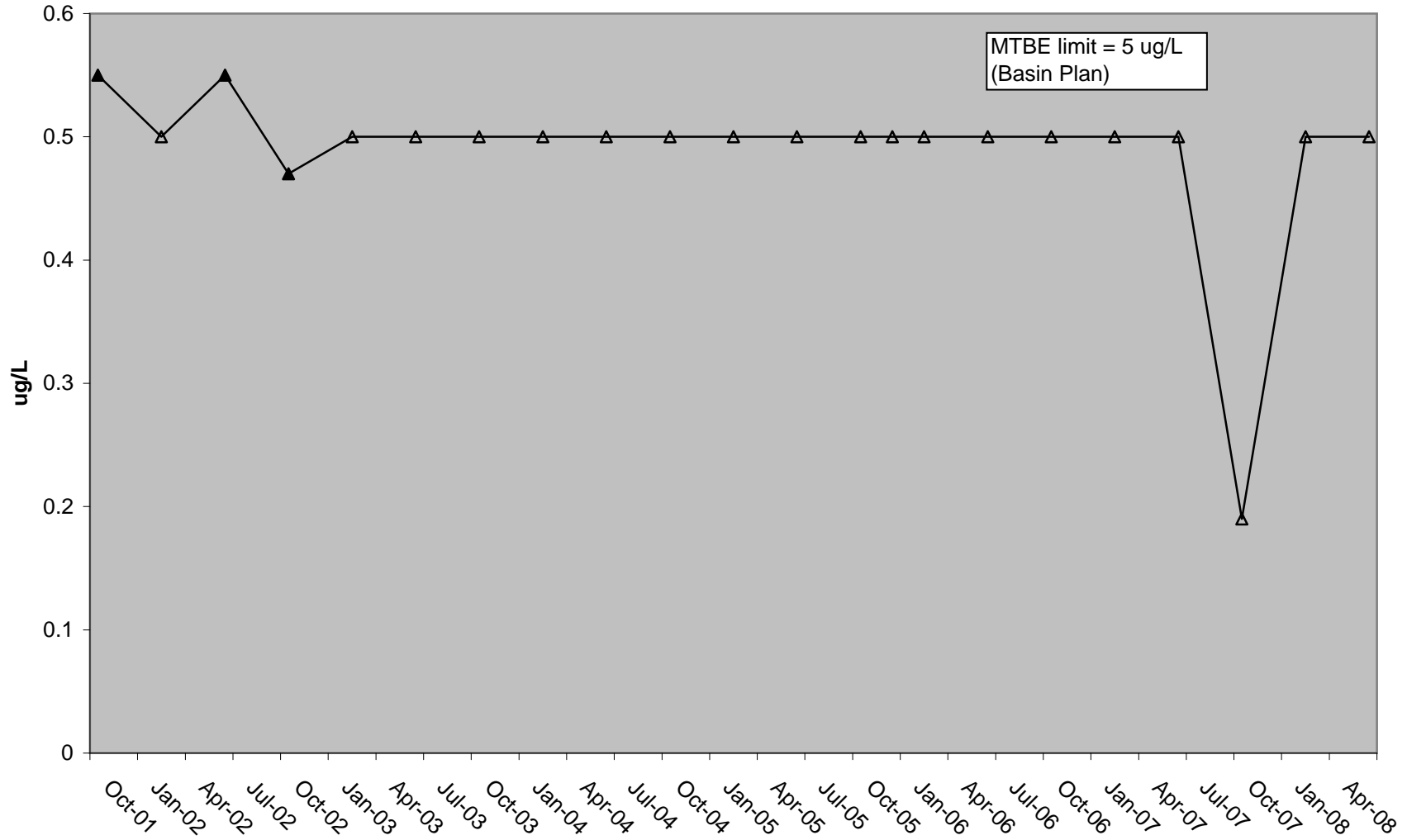
— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



# Discovery Park MTBE

— Trendline    △ Below Detection    ▲ Result

MTBE limit = 5 ug/L  
(Basin Plan)





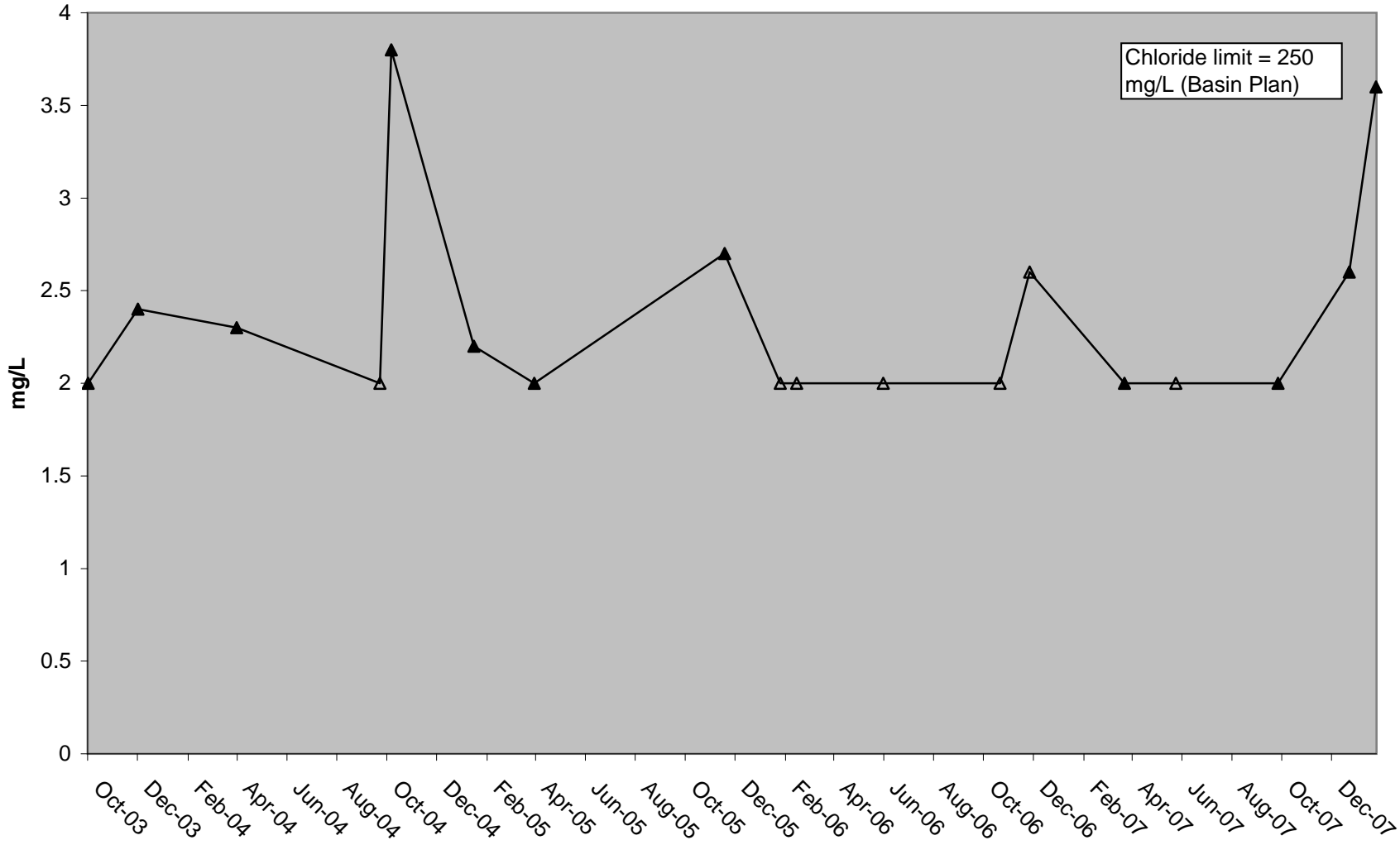
*APPENDIX C-6*

*American River at Highway 80 Overpass*



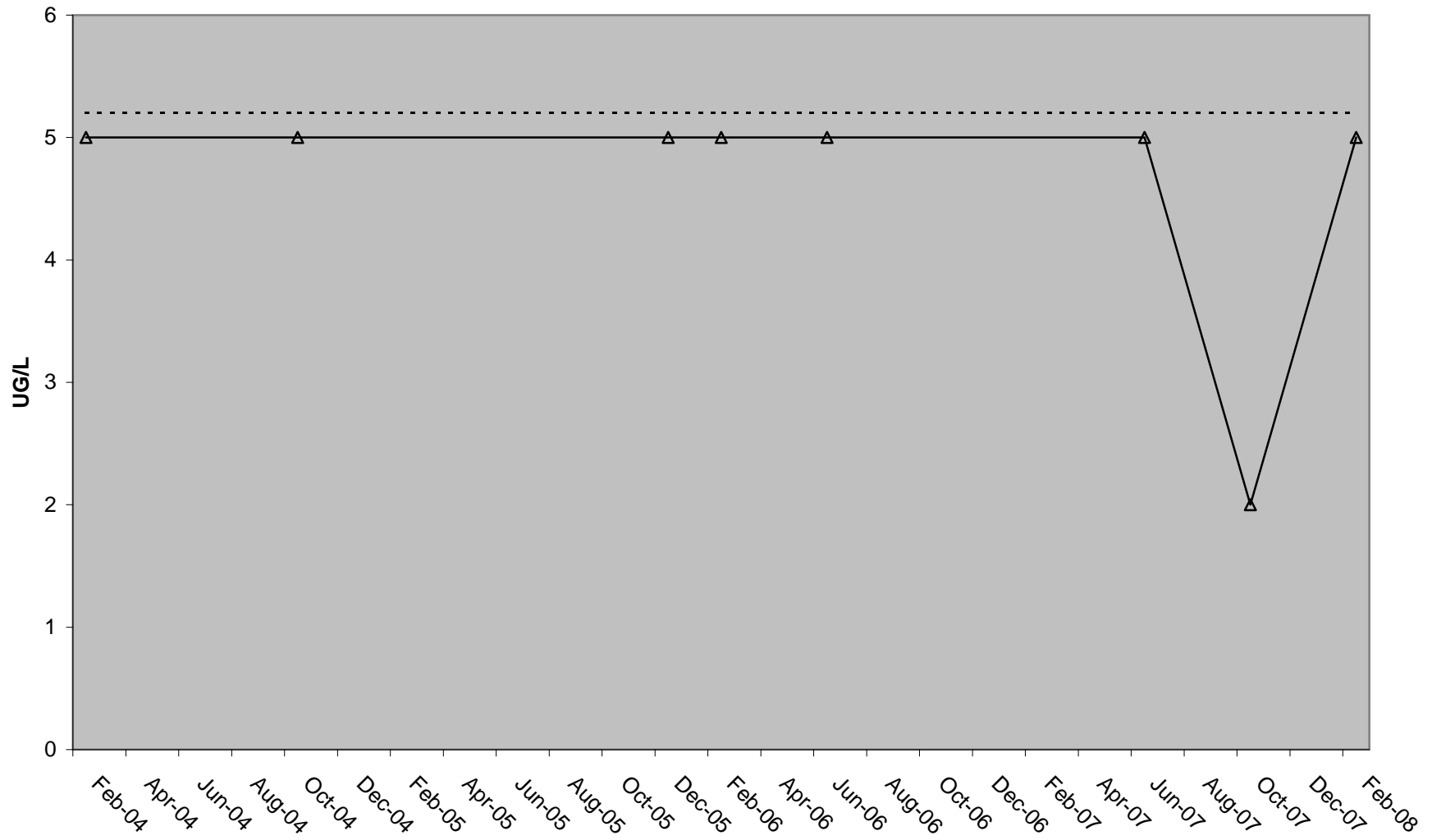
### Am River at Hwy 80 Chloride

— Trendline    △ Below Detection    ▲ Result



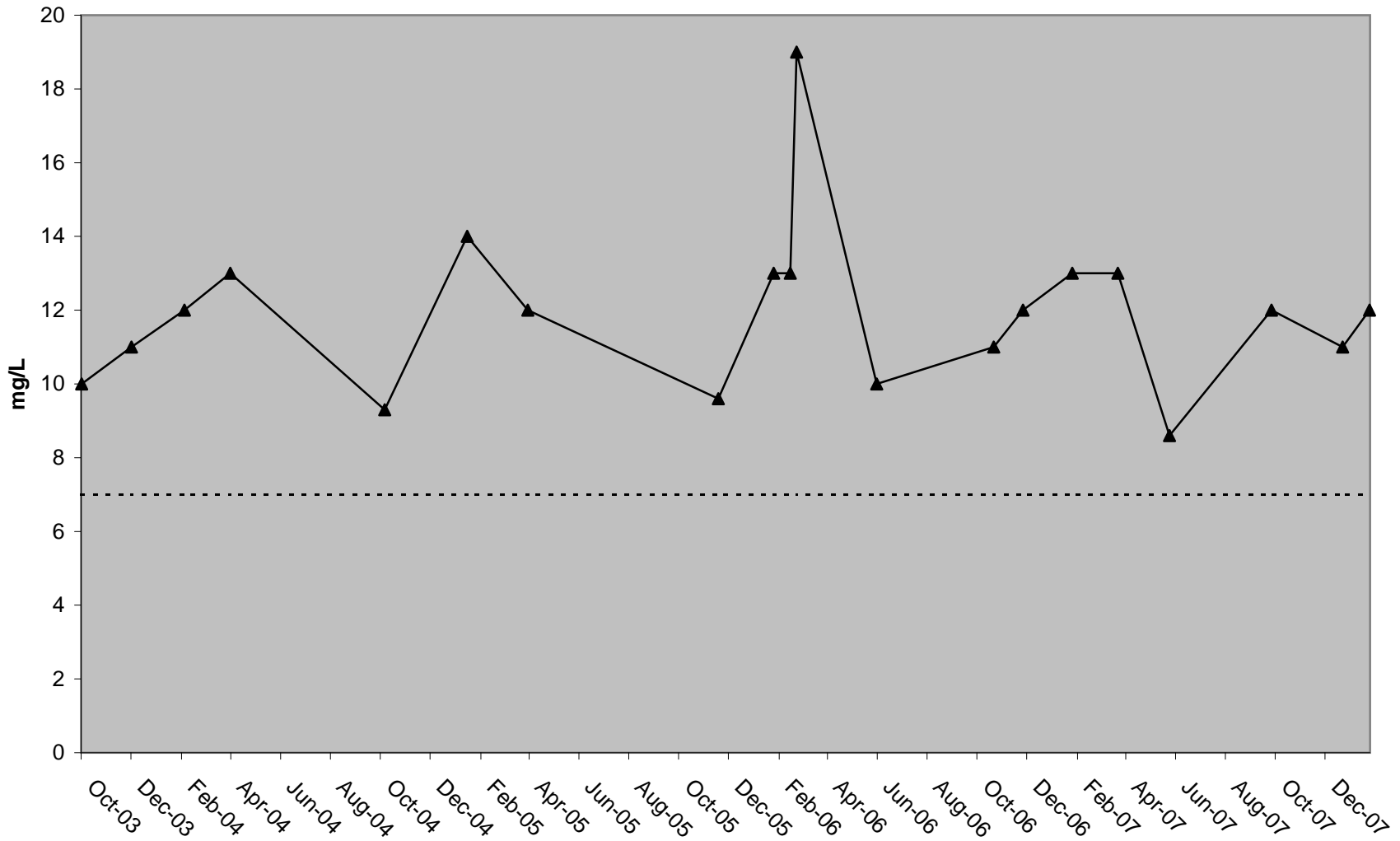
### Am River at Hwy 80 Cyanide

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



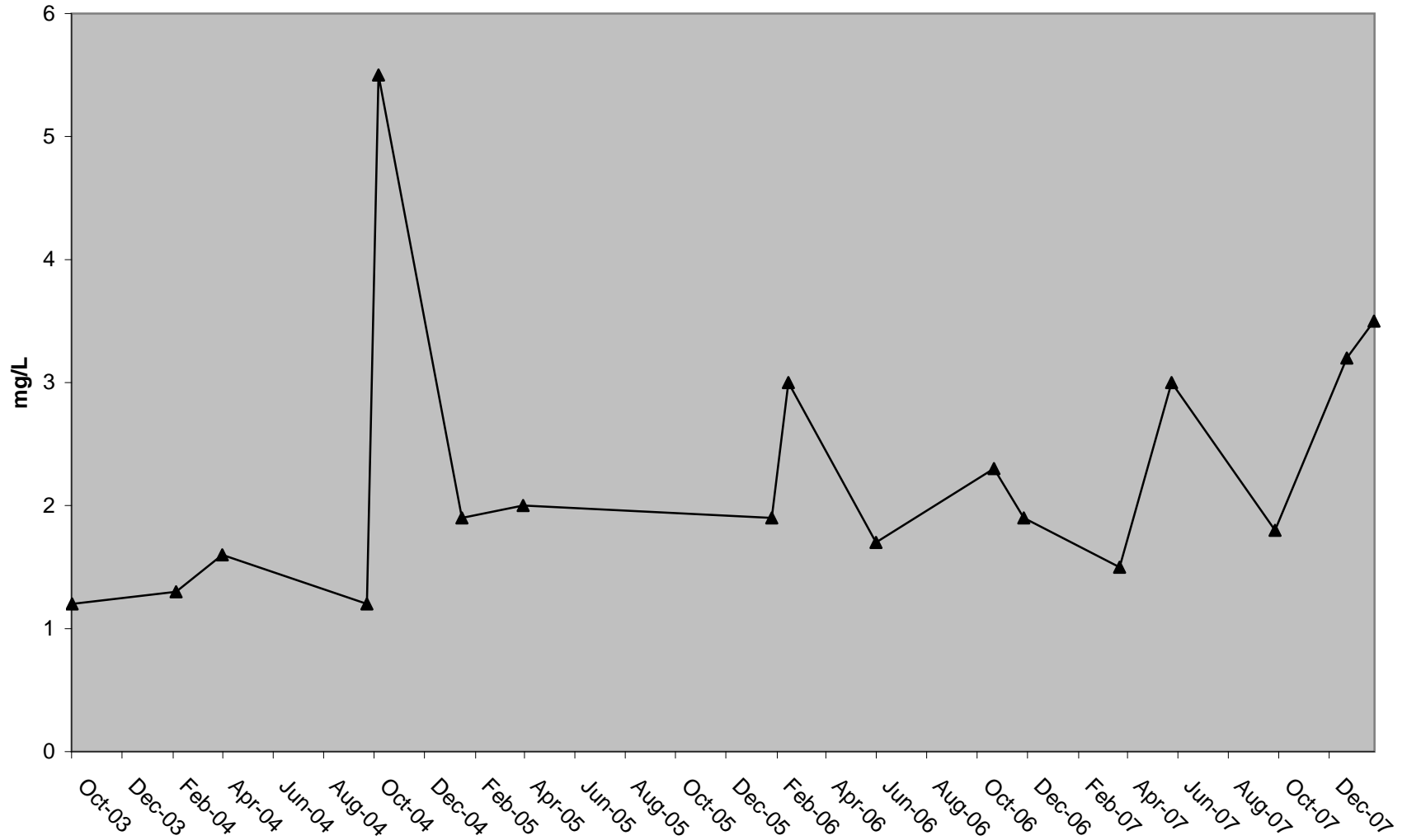
### Am River at Hwy 80 Dissolved Oxygen (DO)

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



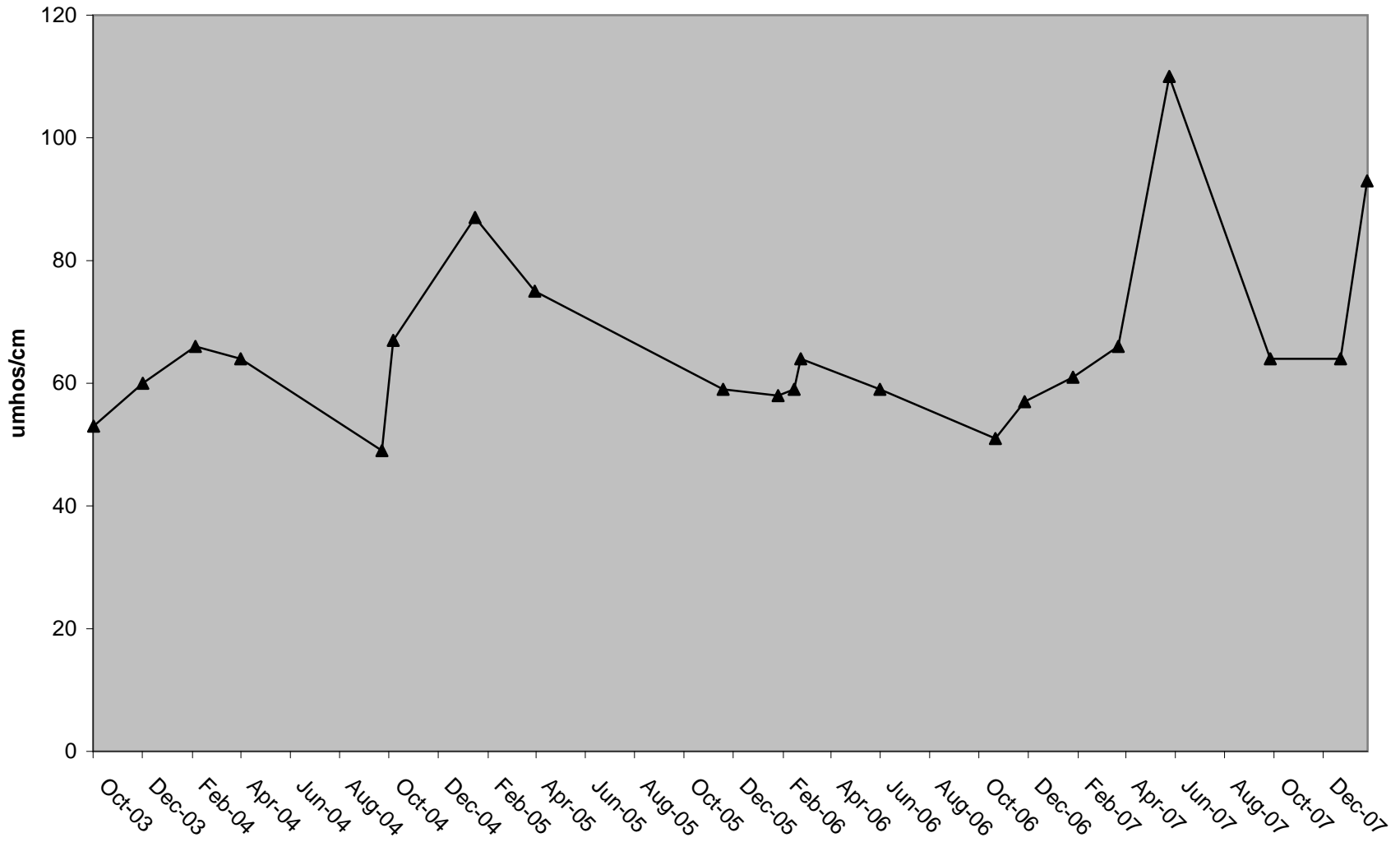
### Am River at Hwy 80 Dissolved Organic Carbon (DOC)

— Trendline    Δ Below Detection    ▲ Result



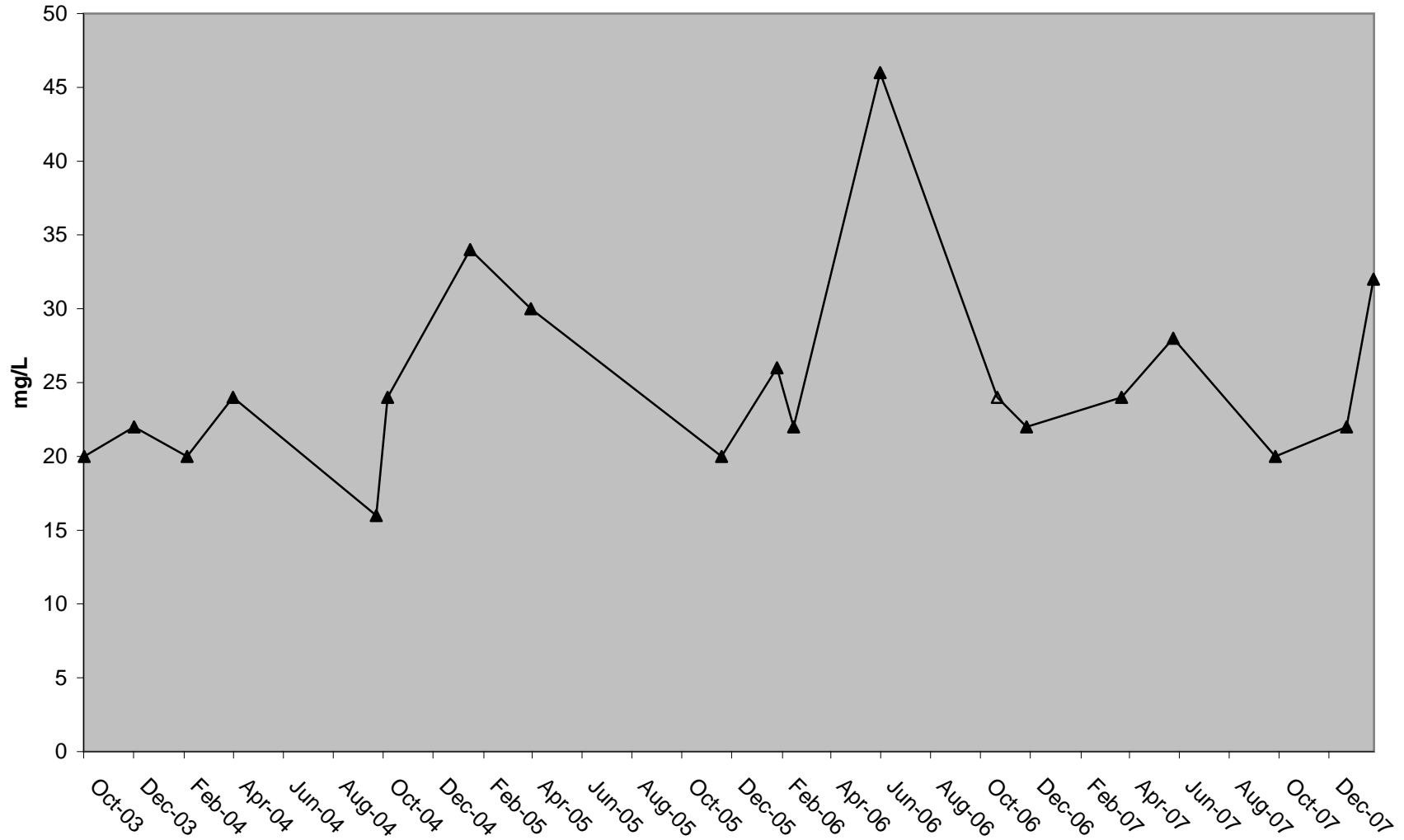
### Am River at Hwy 80 Electrical Conductivity (EC)

— Trendline    △ Below Detection    ▲ Result



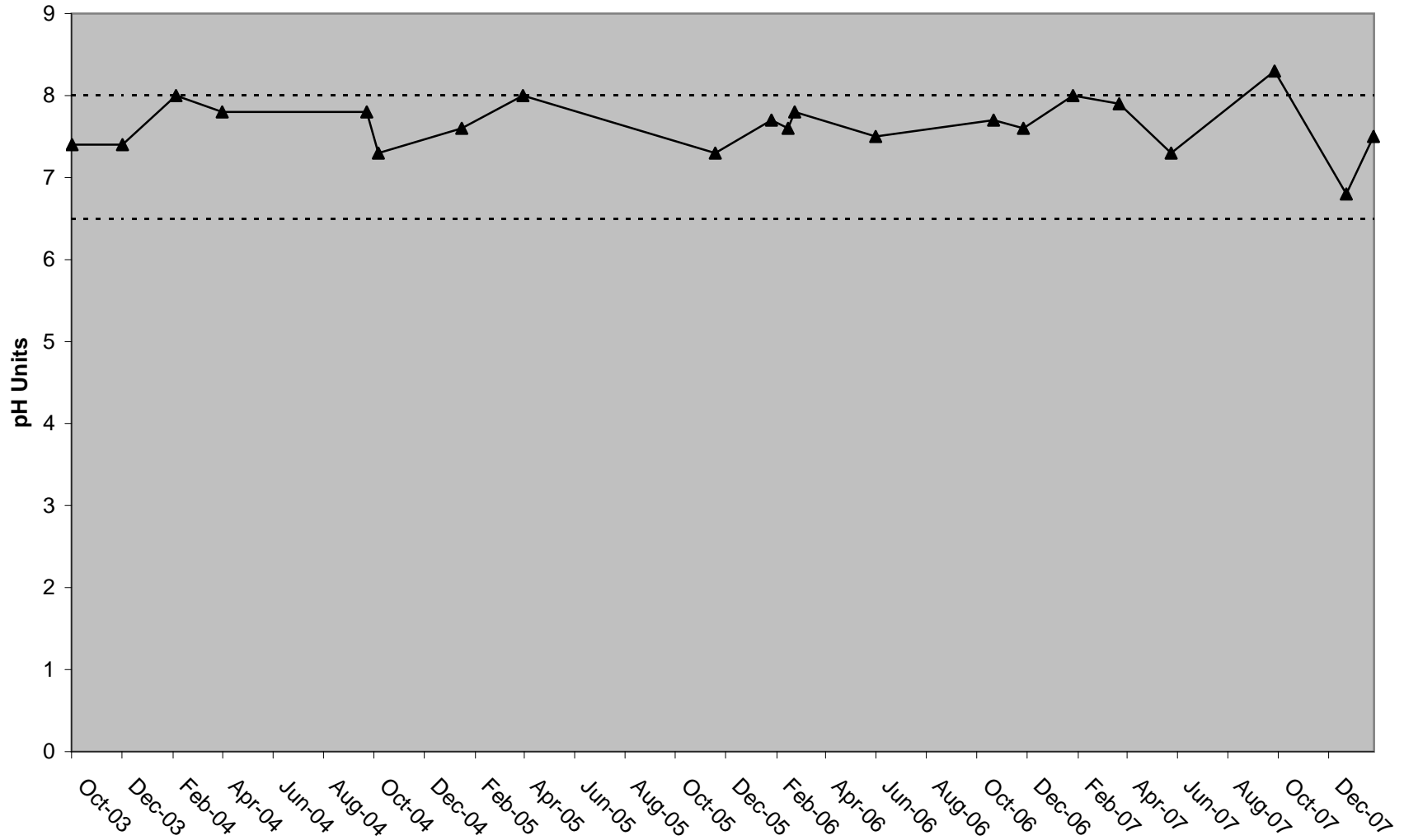
### Am River at Hwy 80 Hardness

— Trendline    △ Below Detection    ▲ Result



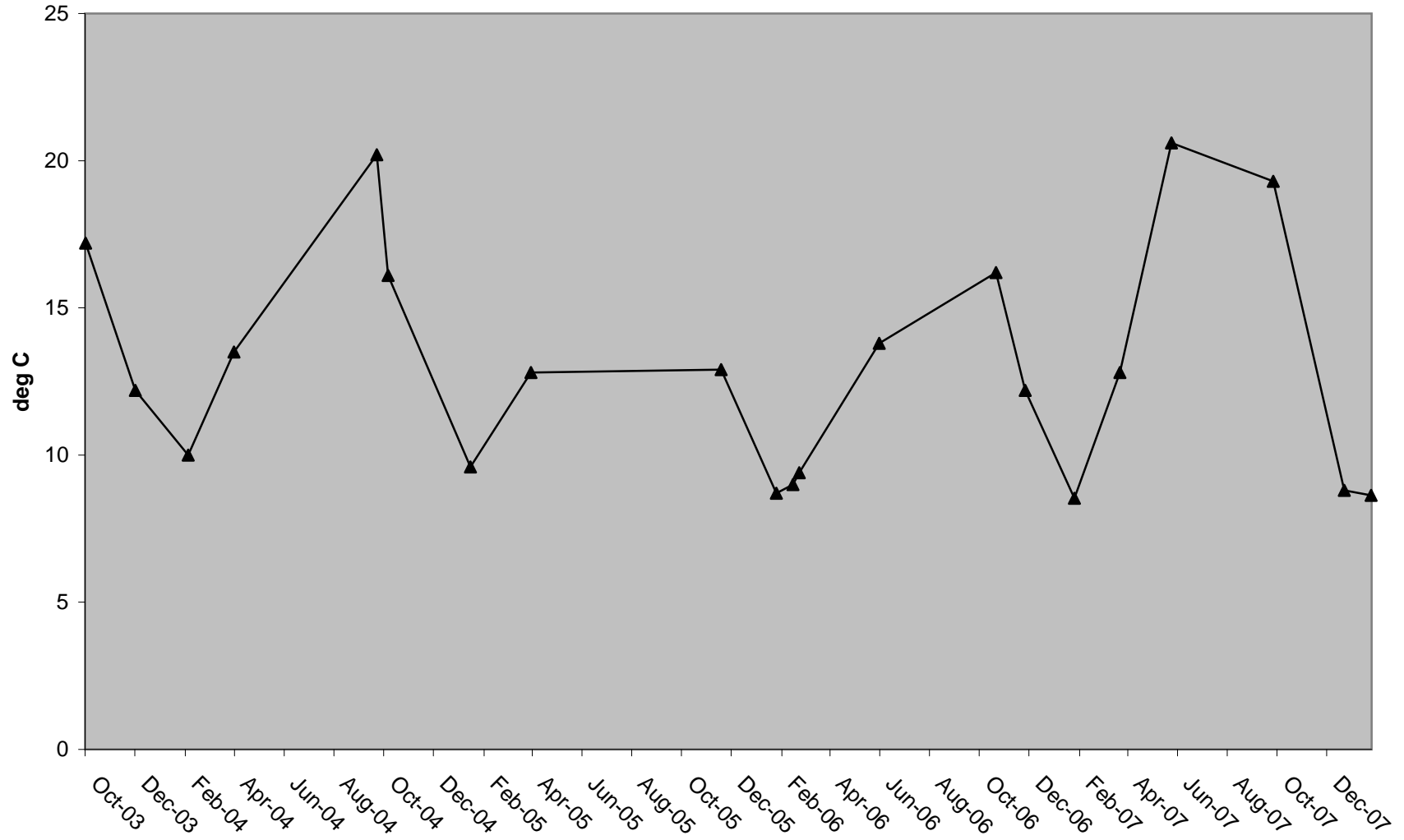
### Am River at Hwy 80 pH

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective

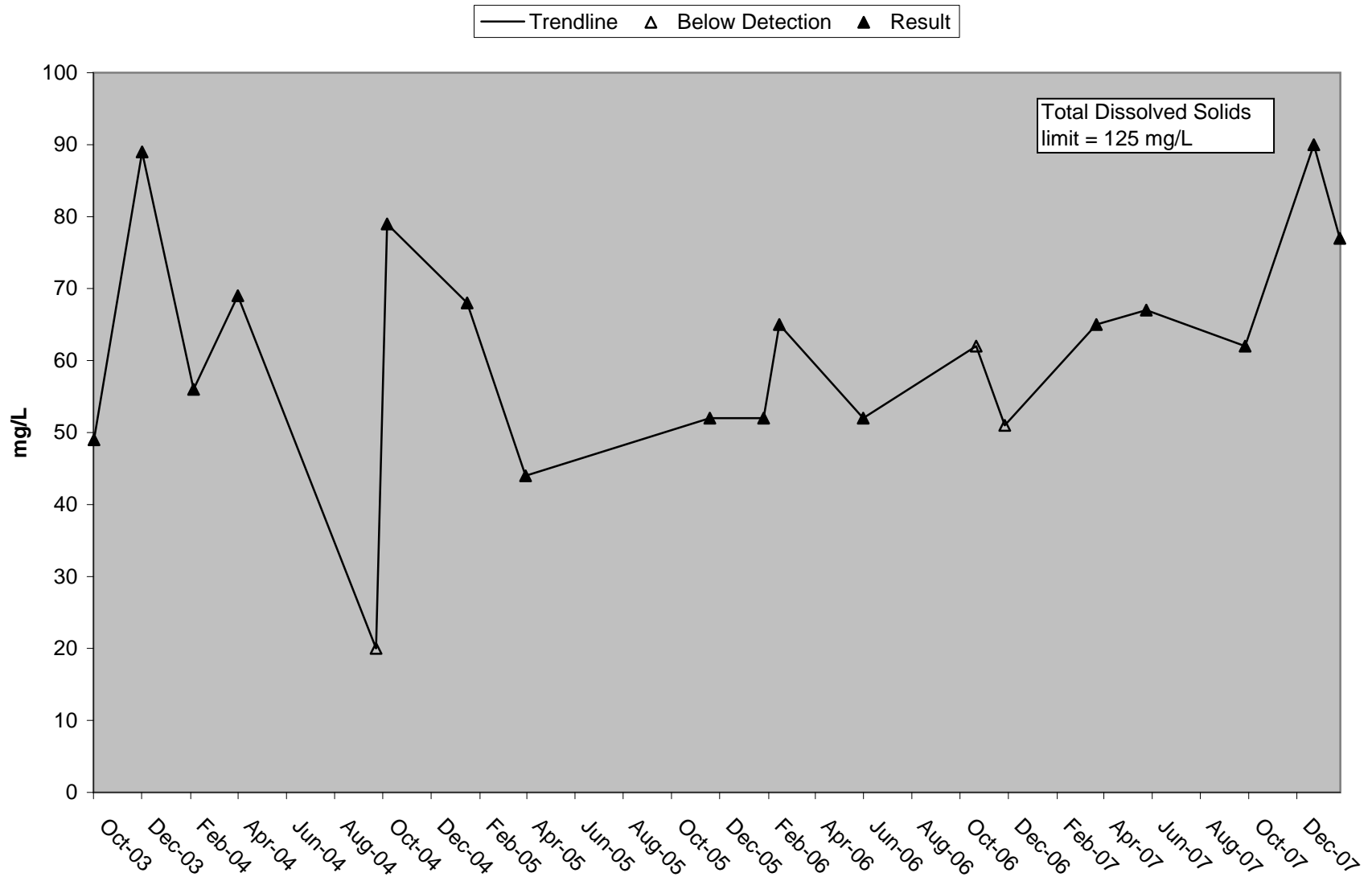


### Am River at Hwy 80 Water Temperature

— Trendline    △ Below Detection    ▲ Result

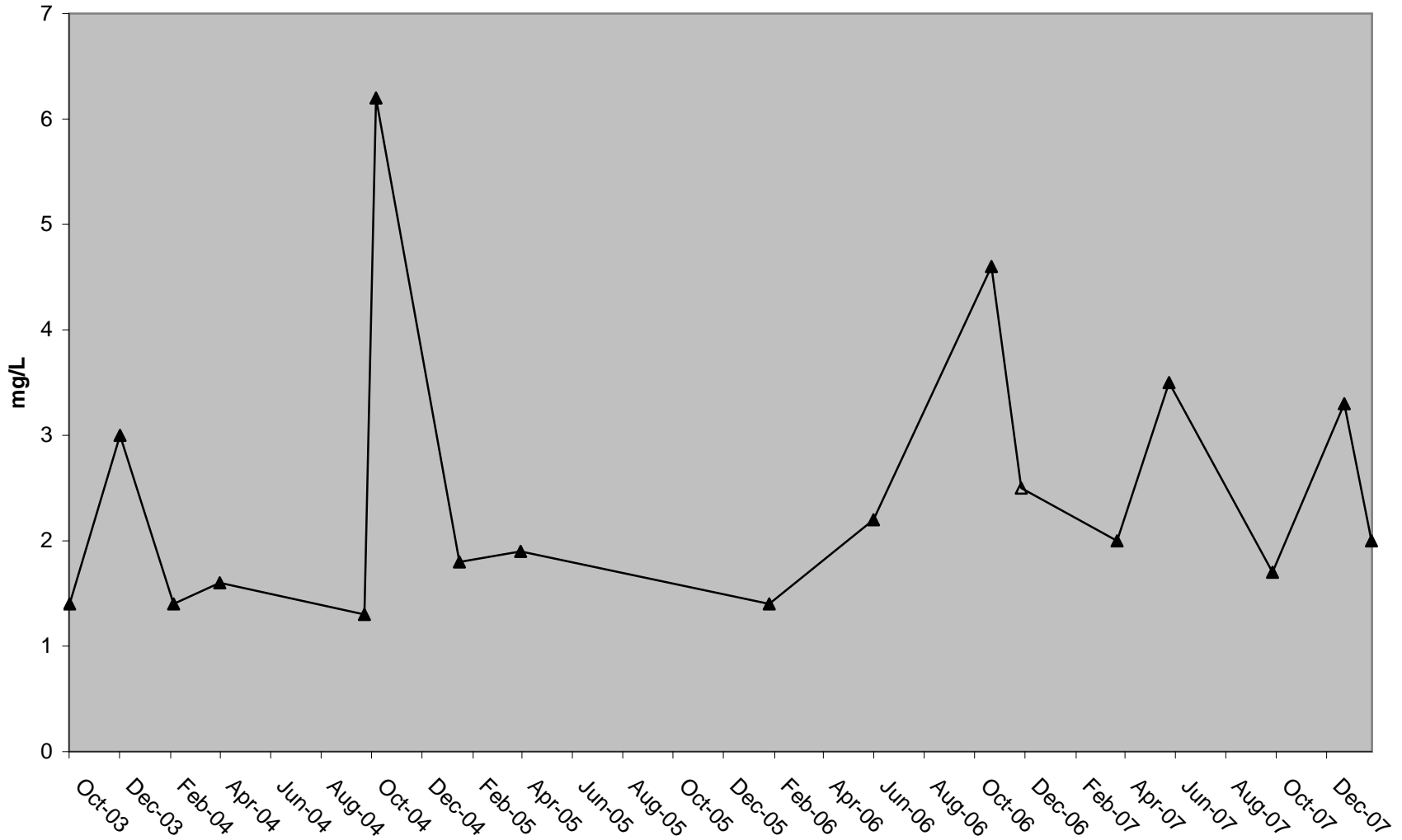


### Am River at Hwy 80 Total Dissolved Solids (TDS)



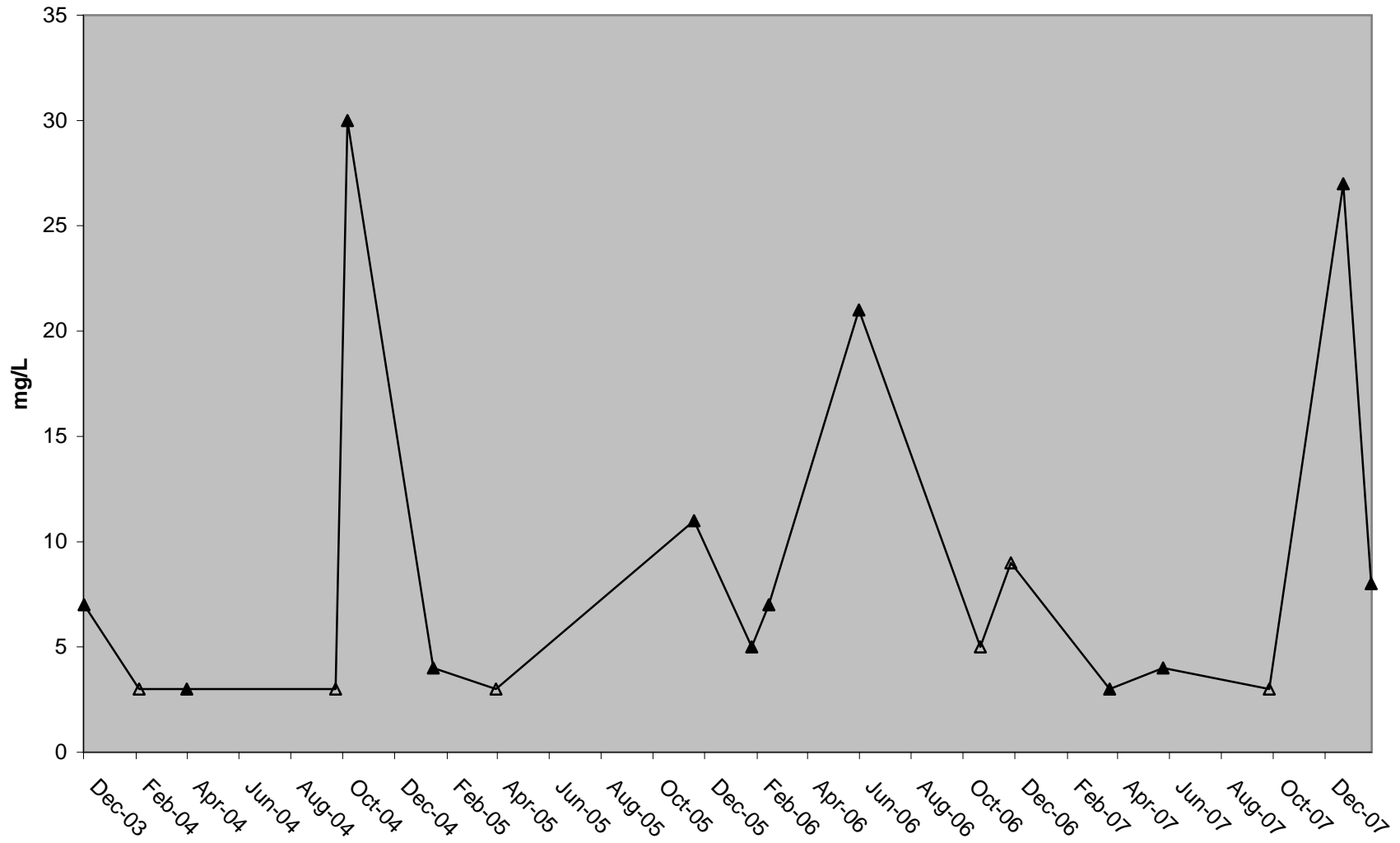
### Am River at Hwy 80 Total Organic Carbon (TOC)

— Trendline    △ Below Detection    ▲ Result



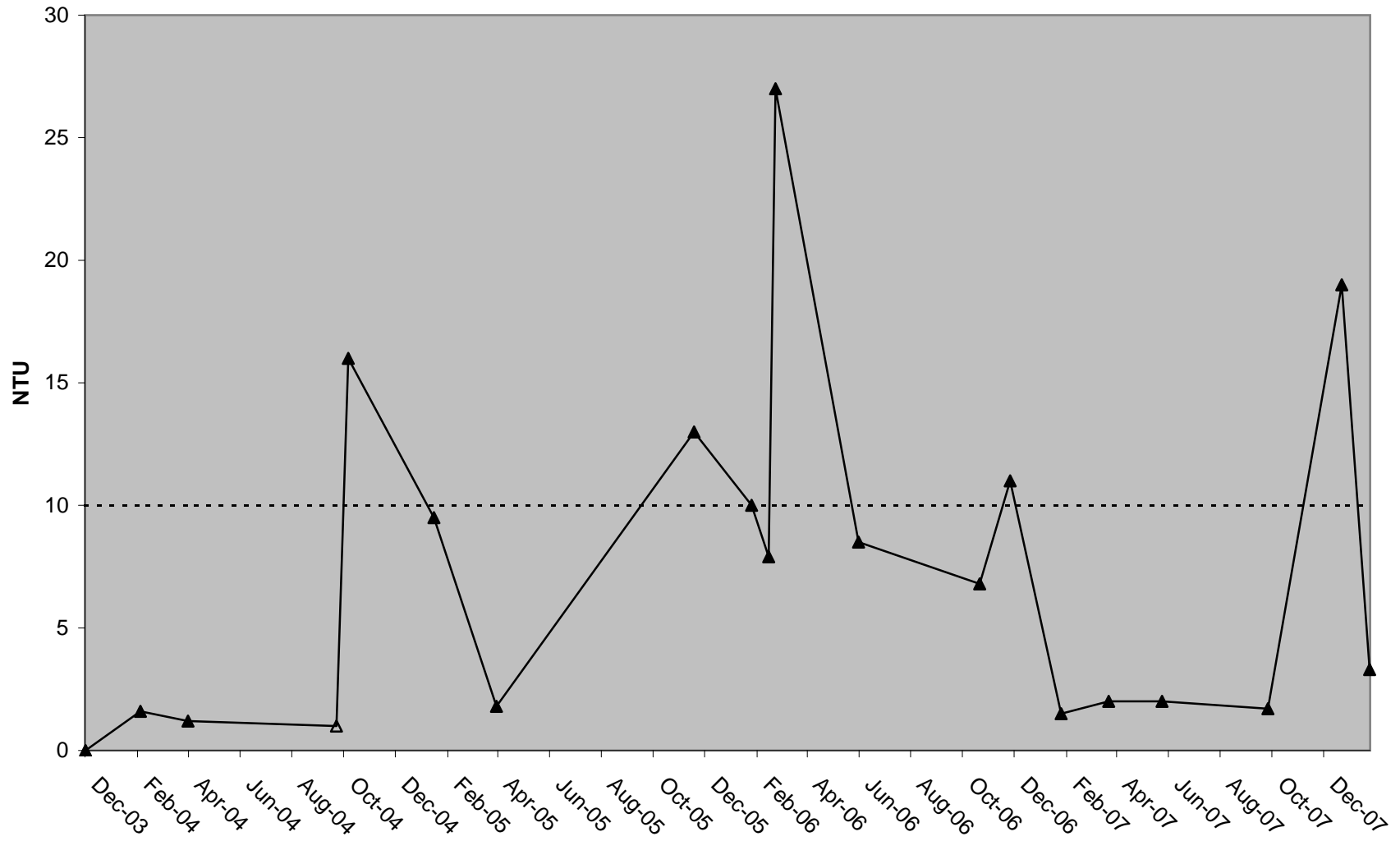
### Am River at Hwy 80 Total Suspended Solids

— Trendline    △ Below Detection    ▲ Result



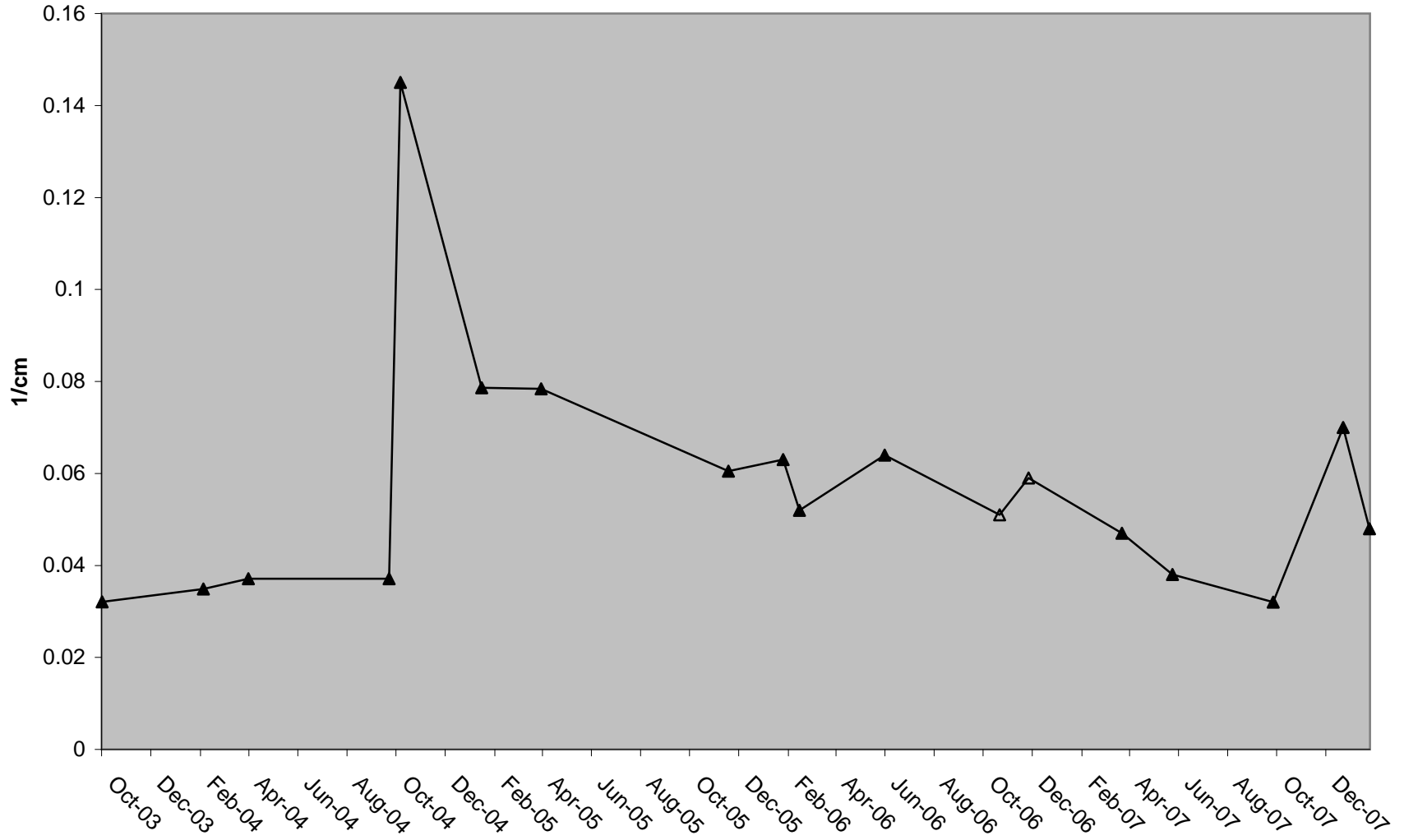
### Am River at Hwy 80 Turbidity

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



### Am River at Hwy 80 UVA 254

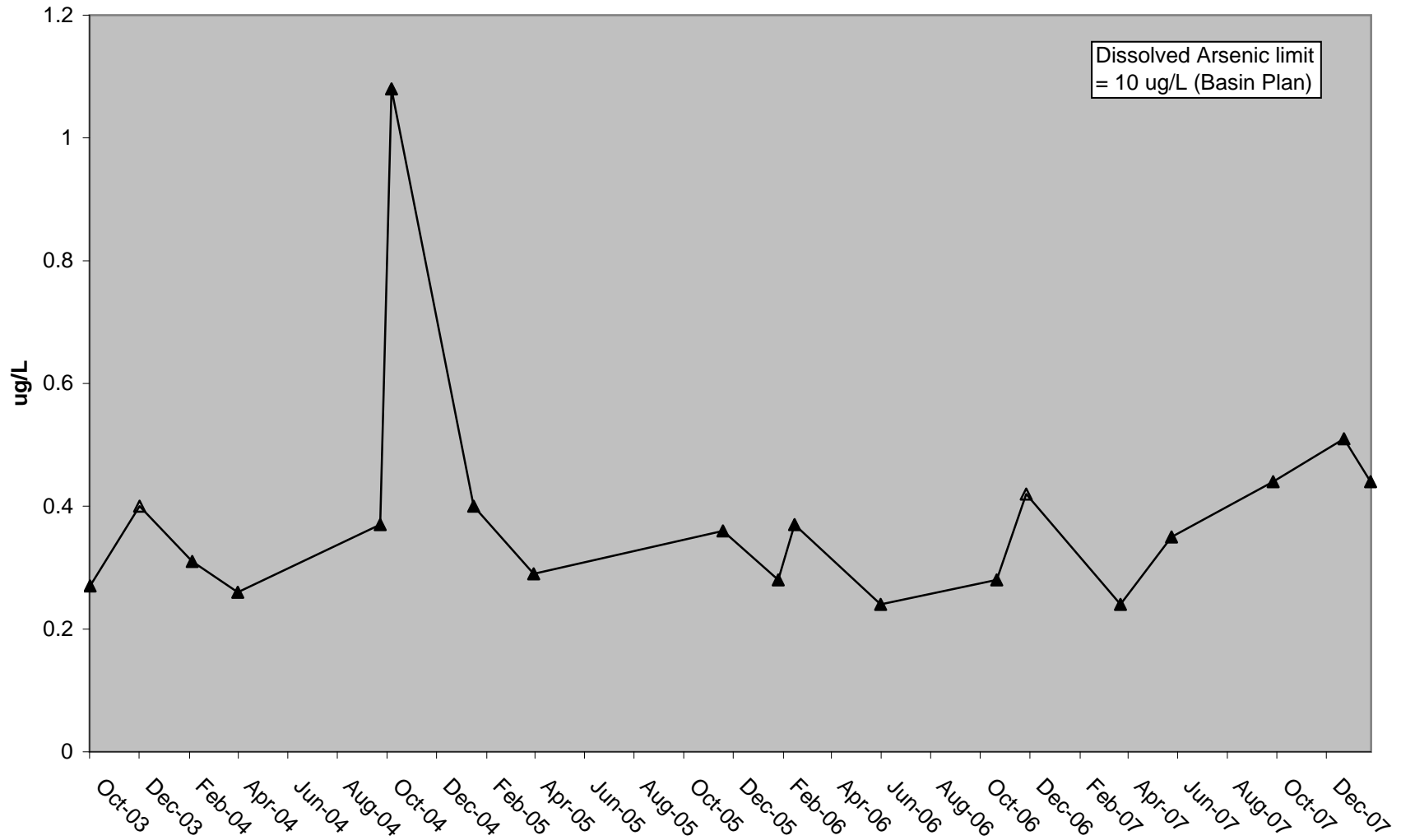
— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



### Am River at Hwy 80 Dissolved Arsenic (As-d)

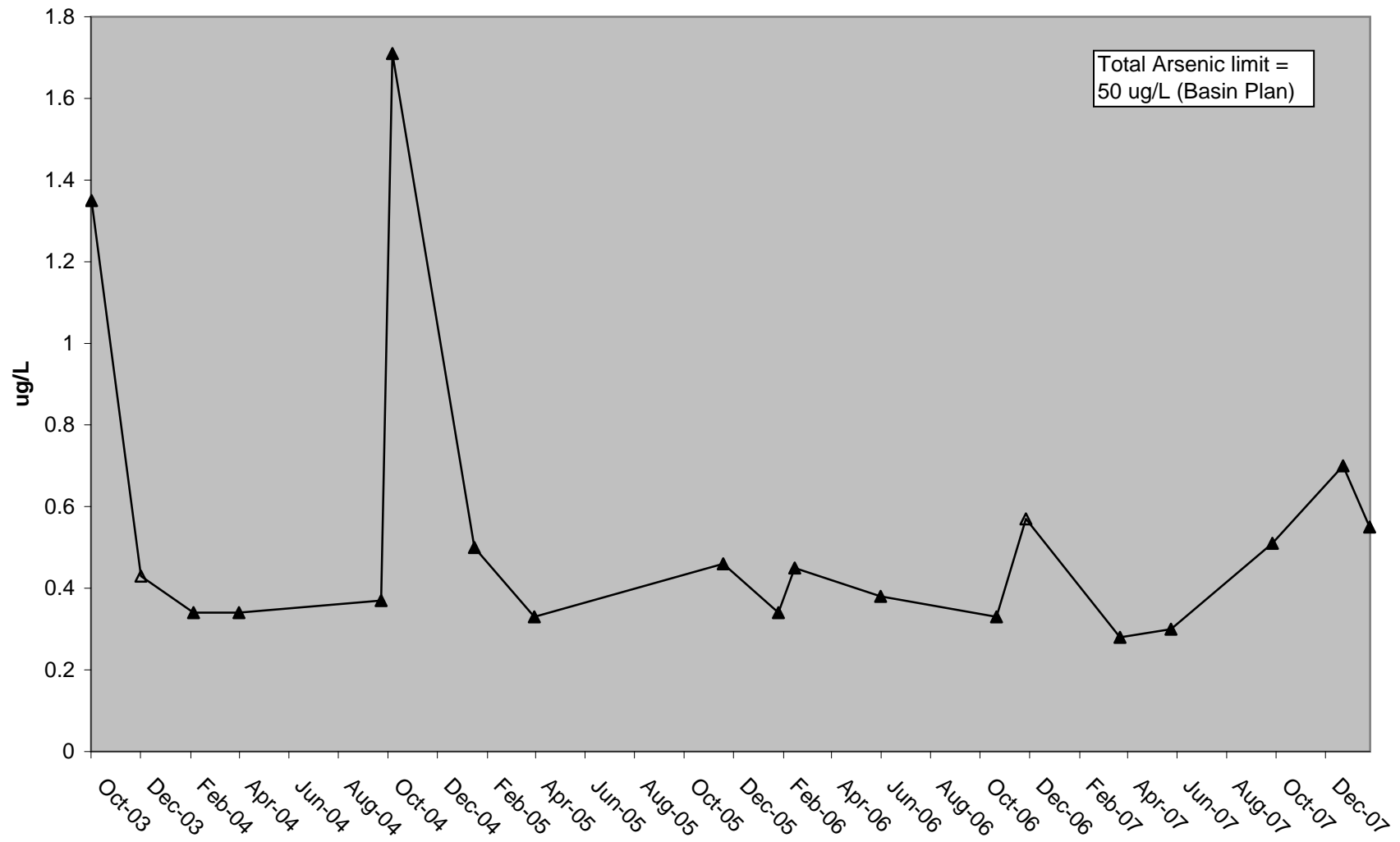
— Trendline    △ Below Detection    ▲ Result

Dissolved Arsenic limit  
= 10 ug/L (Basin Plan)

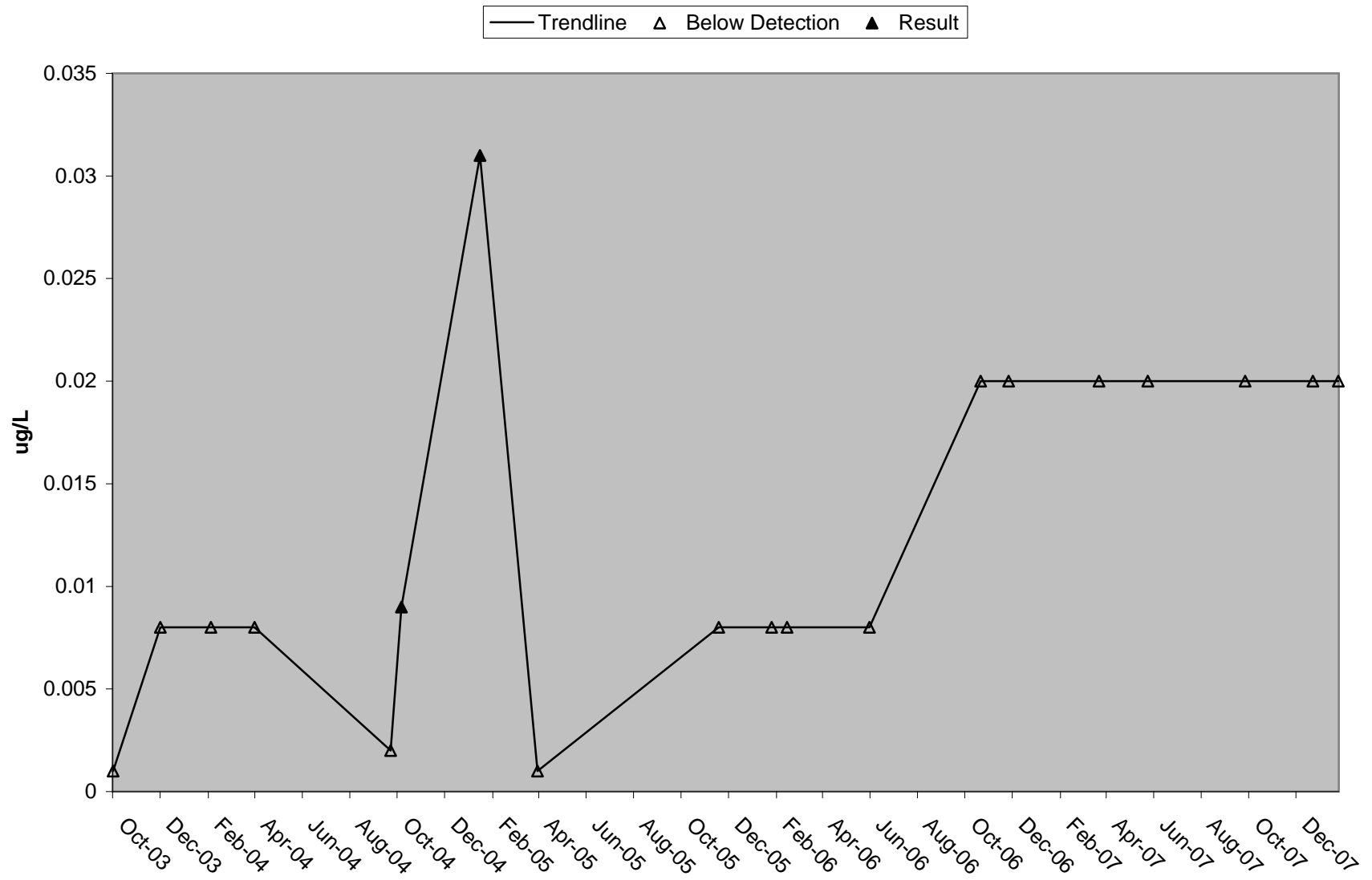


### Am River at Hwy 80 Total Arsenic (As-T)

— Trendline    △ Below Detection    ▲ Result

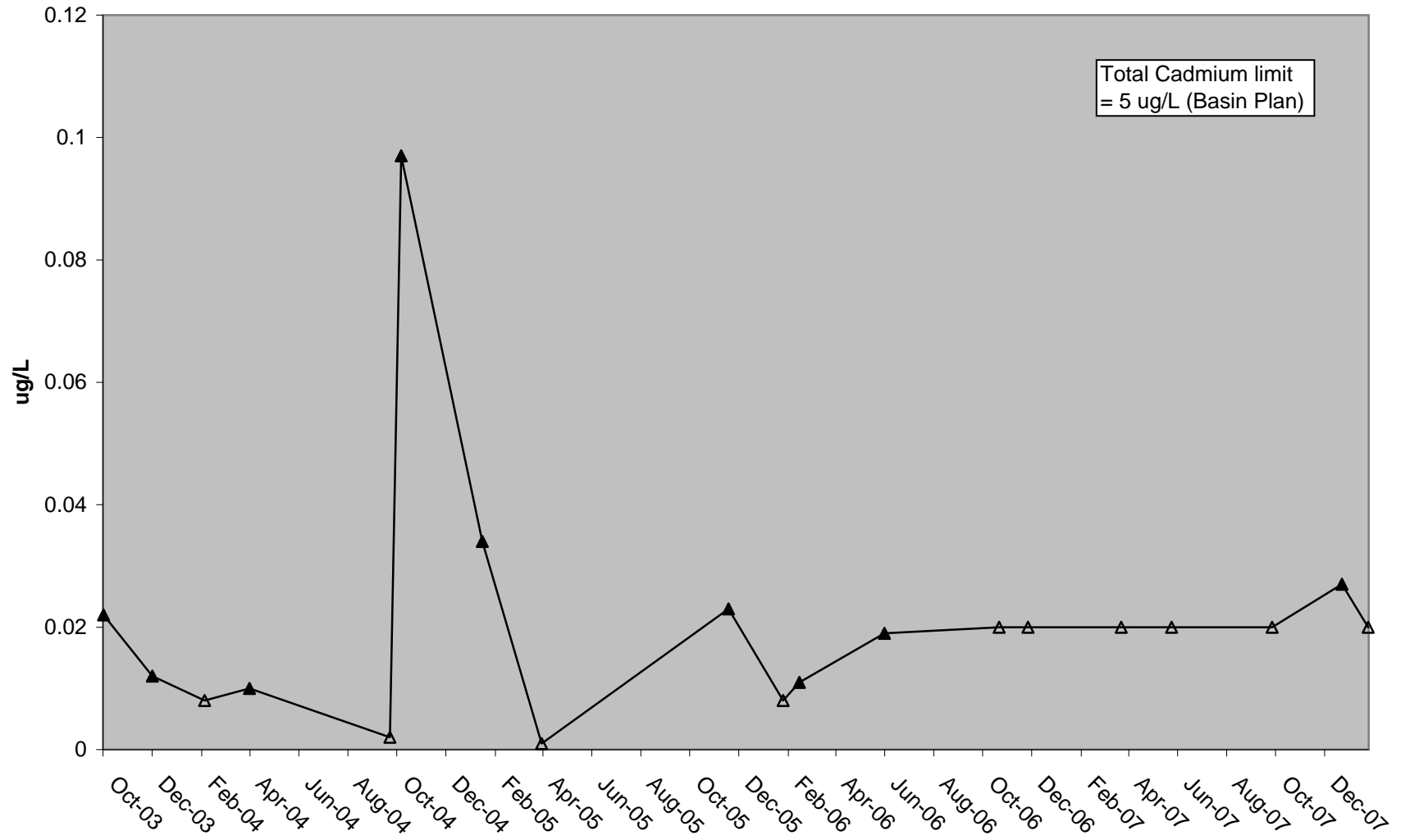


### Am River at Hwy 80 Dissolved Cadmium (Cd-d)



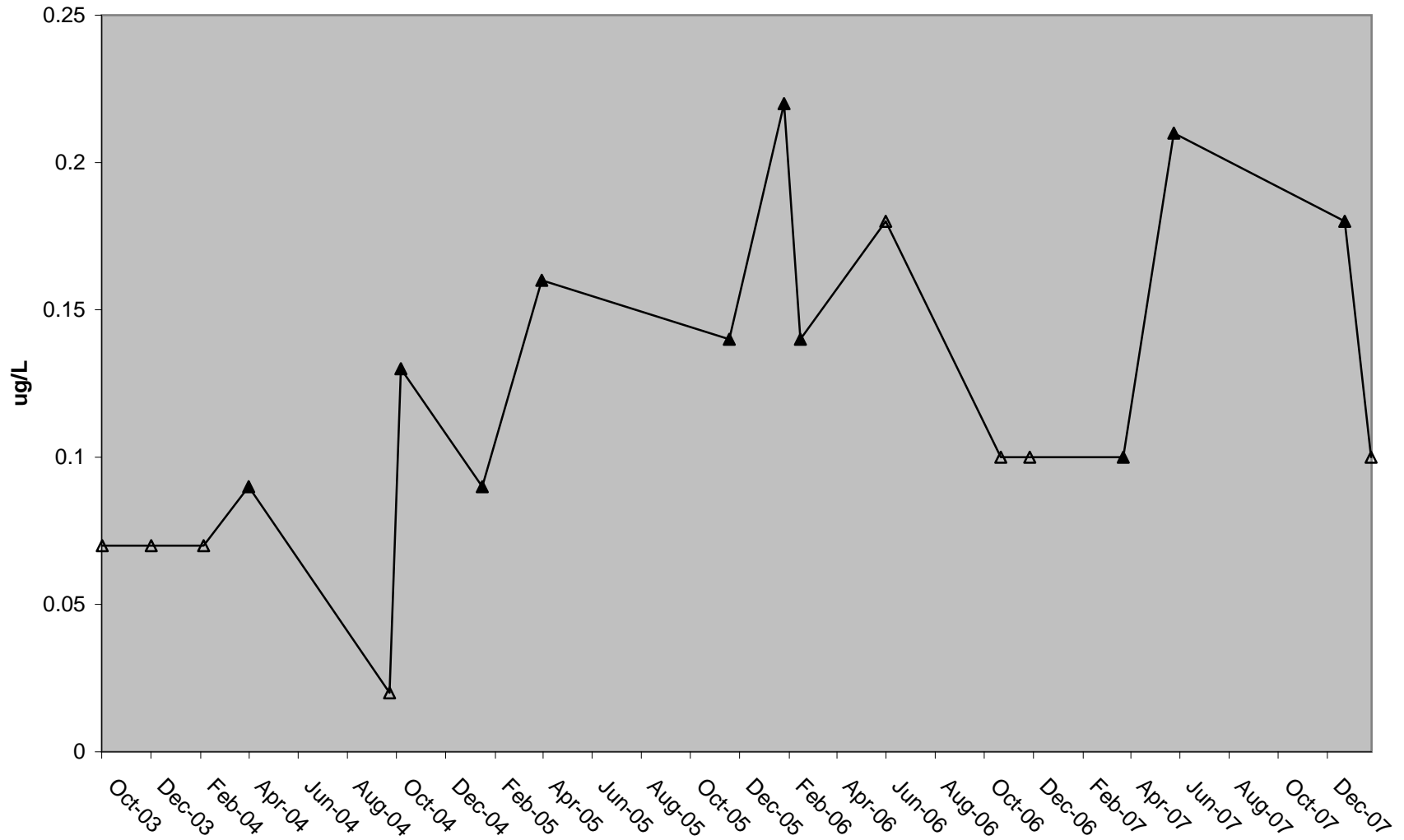
### Am River at Hwy 80 Total Cadmium (Cd-T)

— Trendline    Δ Below Detection    ▲ Result



### Am River at Hwy 80 Dissolved Chromium (Cr-d)

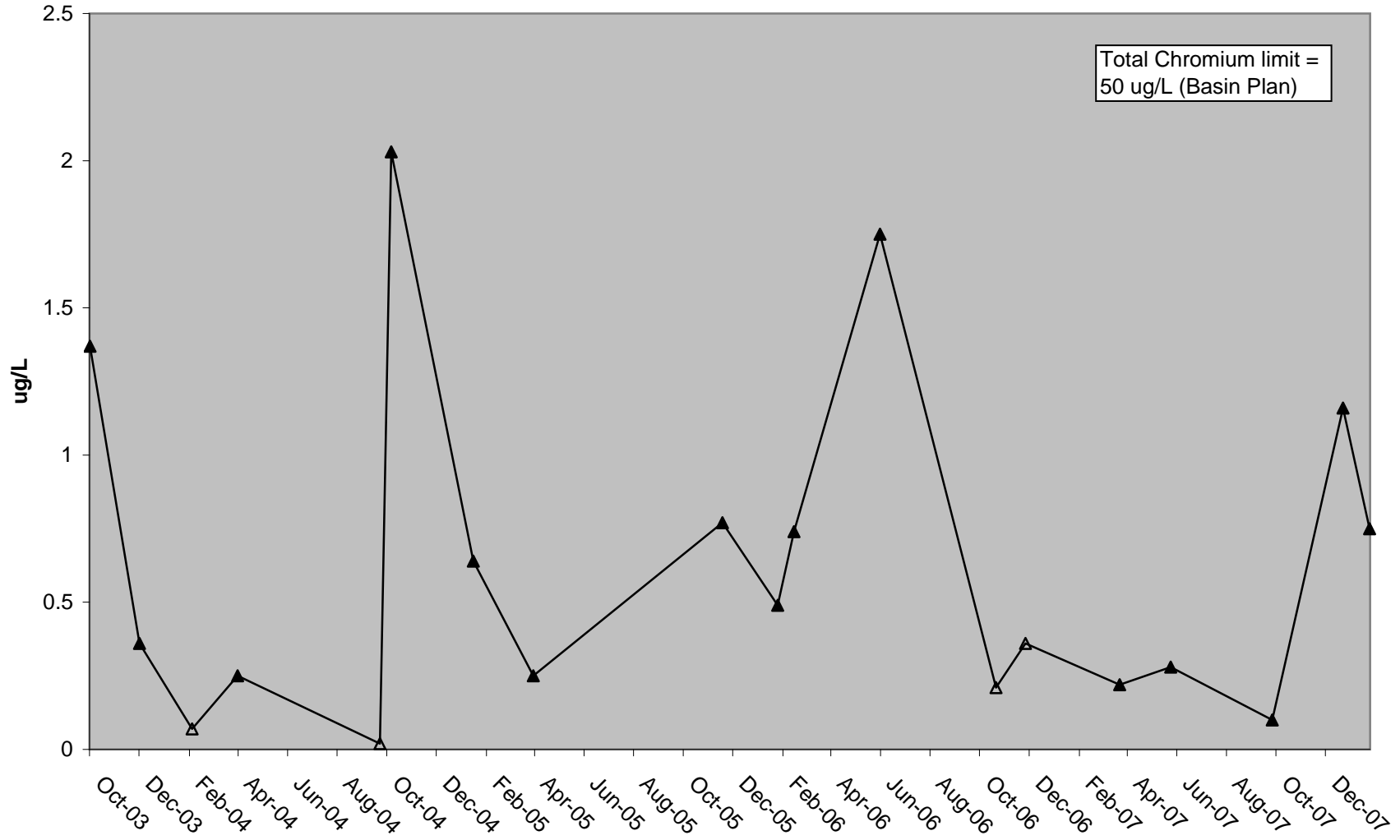
— Trendline    △ Below Detection    ▲ Result



### Am River at Hwy 80 Total Chromium (Cr-T)

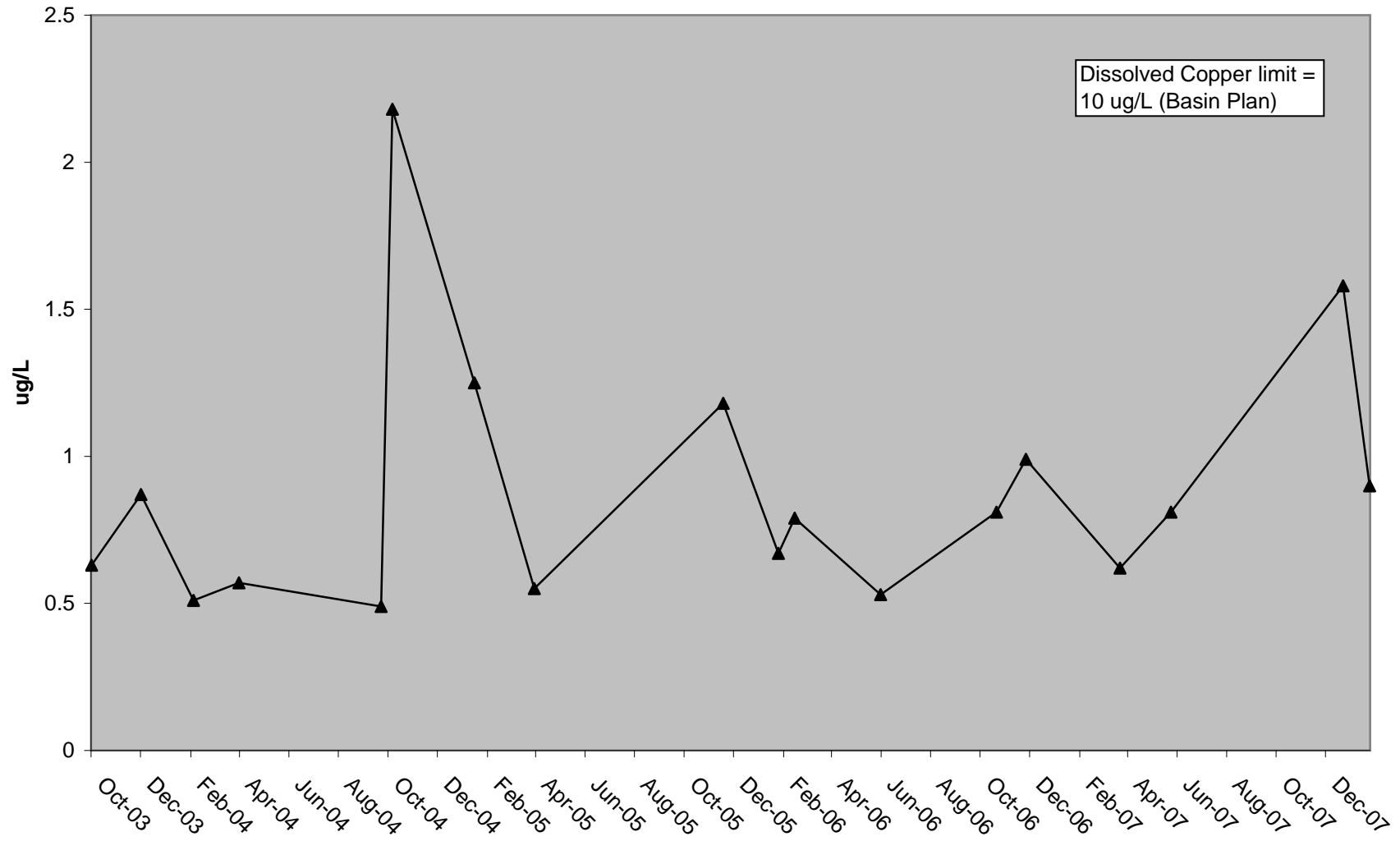
— Trendline    △ Below Detection    ▲ Result

Total Chromium limit =  
50 ug/L (Basin Plan)



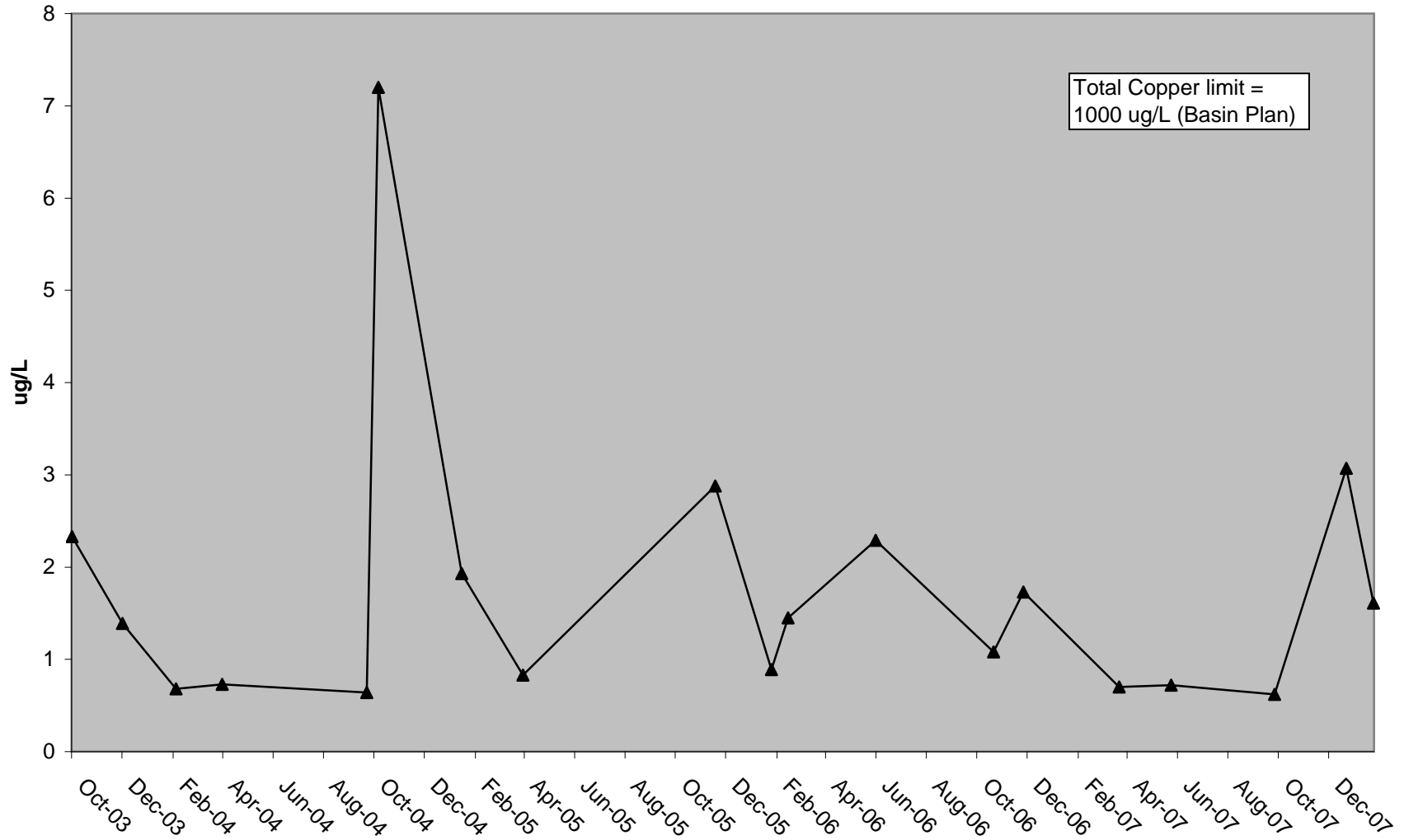
### Am River at Hwy 80 Dissolved Copper (Cu-d)

— Trendline    △ Below Detection    ▲ Result



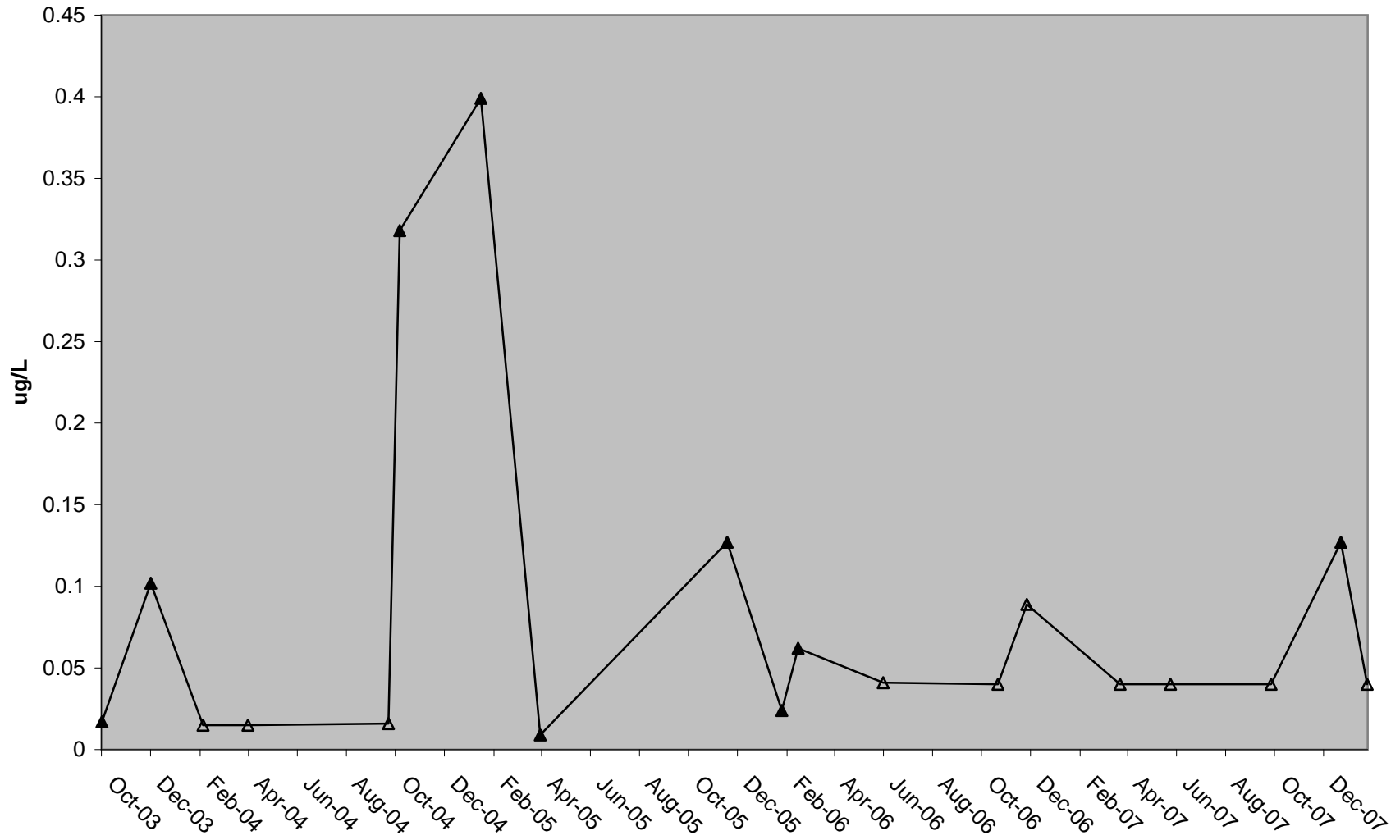
### Am River at Hwy 80 Total Copper (Cu-T)

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



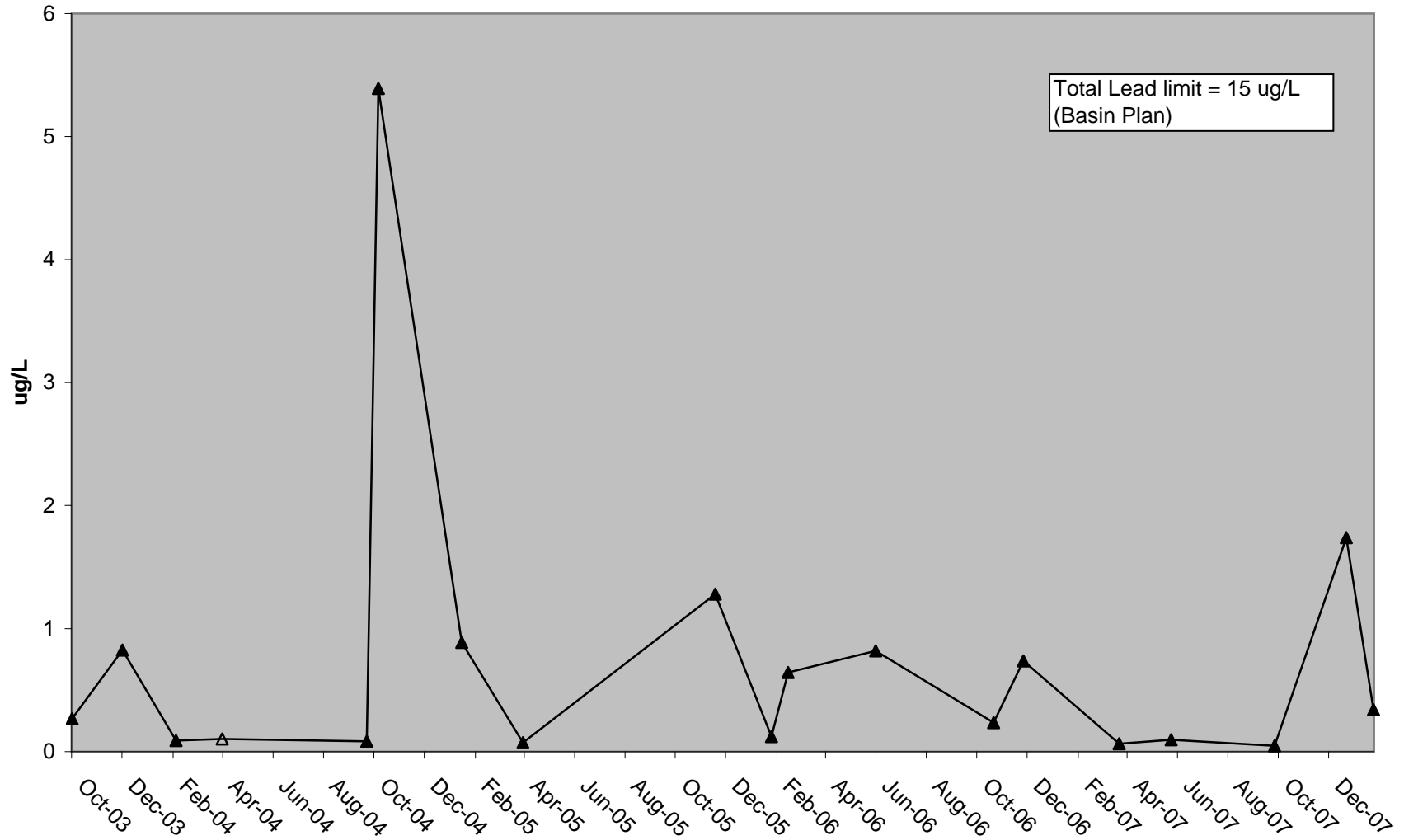
### Am River at Hwy 80 Dissolved Lead (Pb-d)

— Trendline    △ Below Detection    ▲ Result



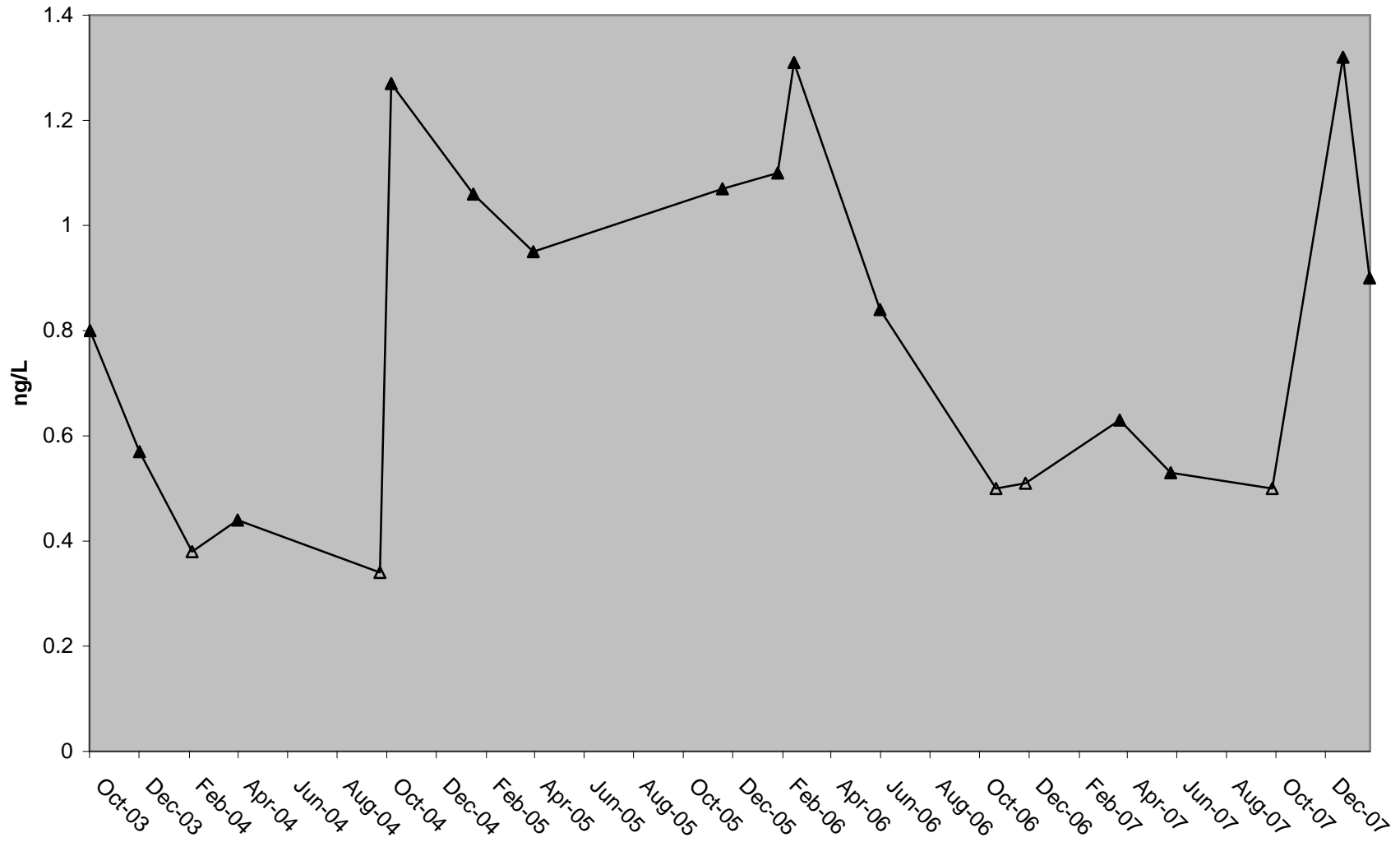
### Am River at Hwy 80 Total Lead (Pb-T)

— Trendline     $\Delta$  Below Detection     $\blacktriangle$  Result



### Am River at Hwy 80 Filtered Mercury (Hg-f)

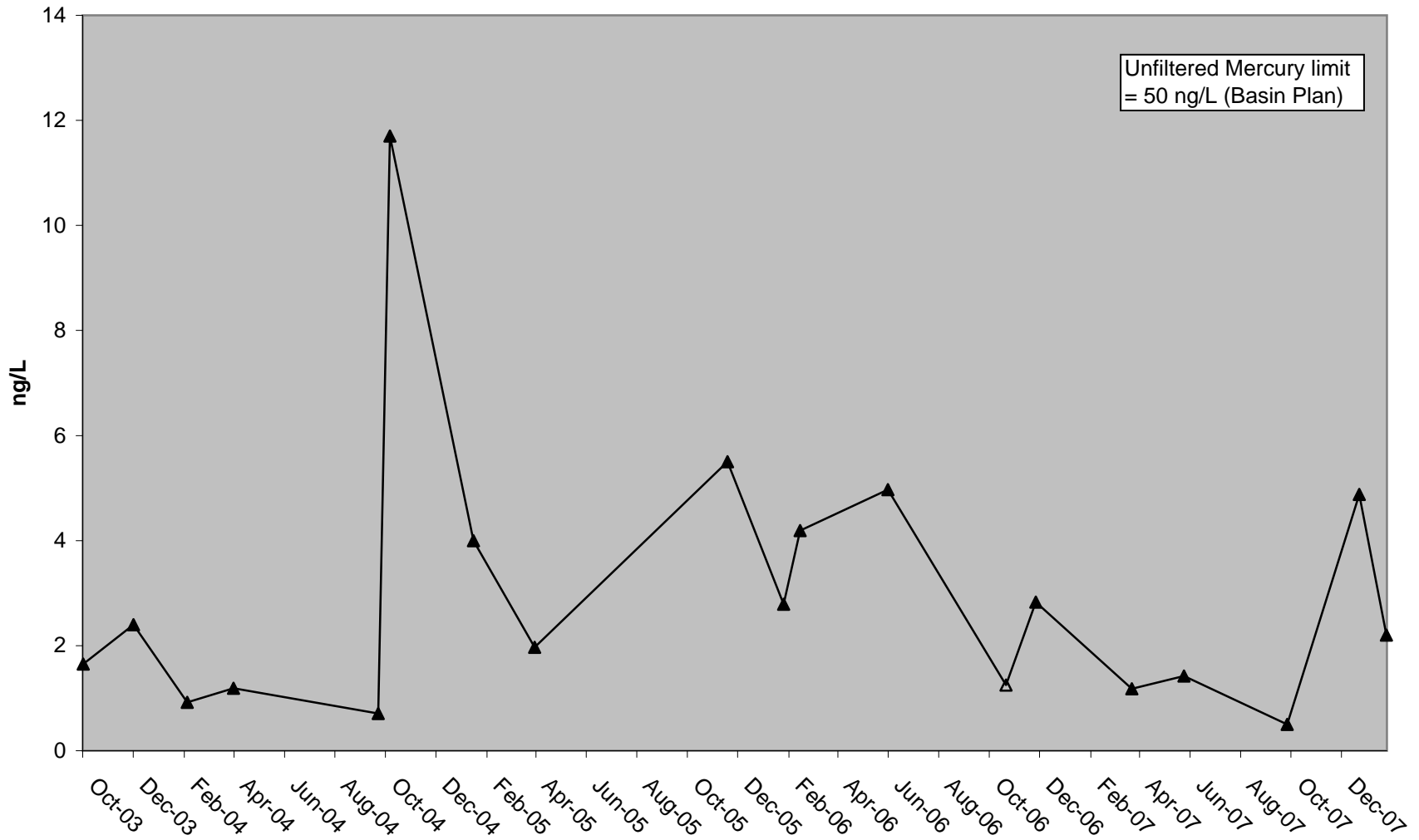
— Trendline    △ Below Detection    ▲ Result



### Am River at Hwy 80 Unfiltered Mercury (Hg-u)

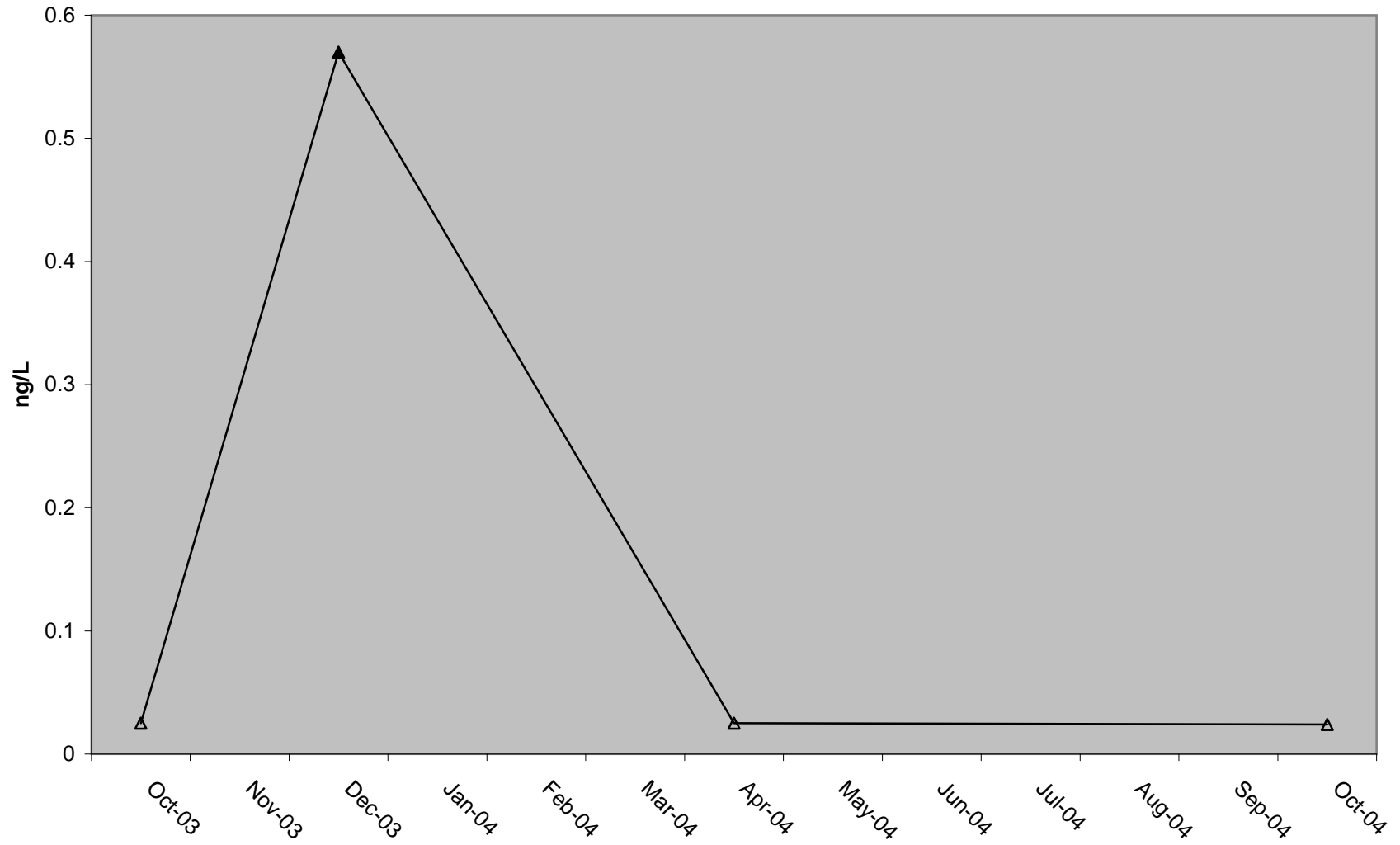
— Trendline    △ Below Detection    ▲ Result

Unfiltered Mercury limit  
= 50 ng/L (Basin Plan)



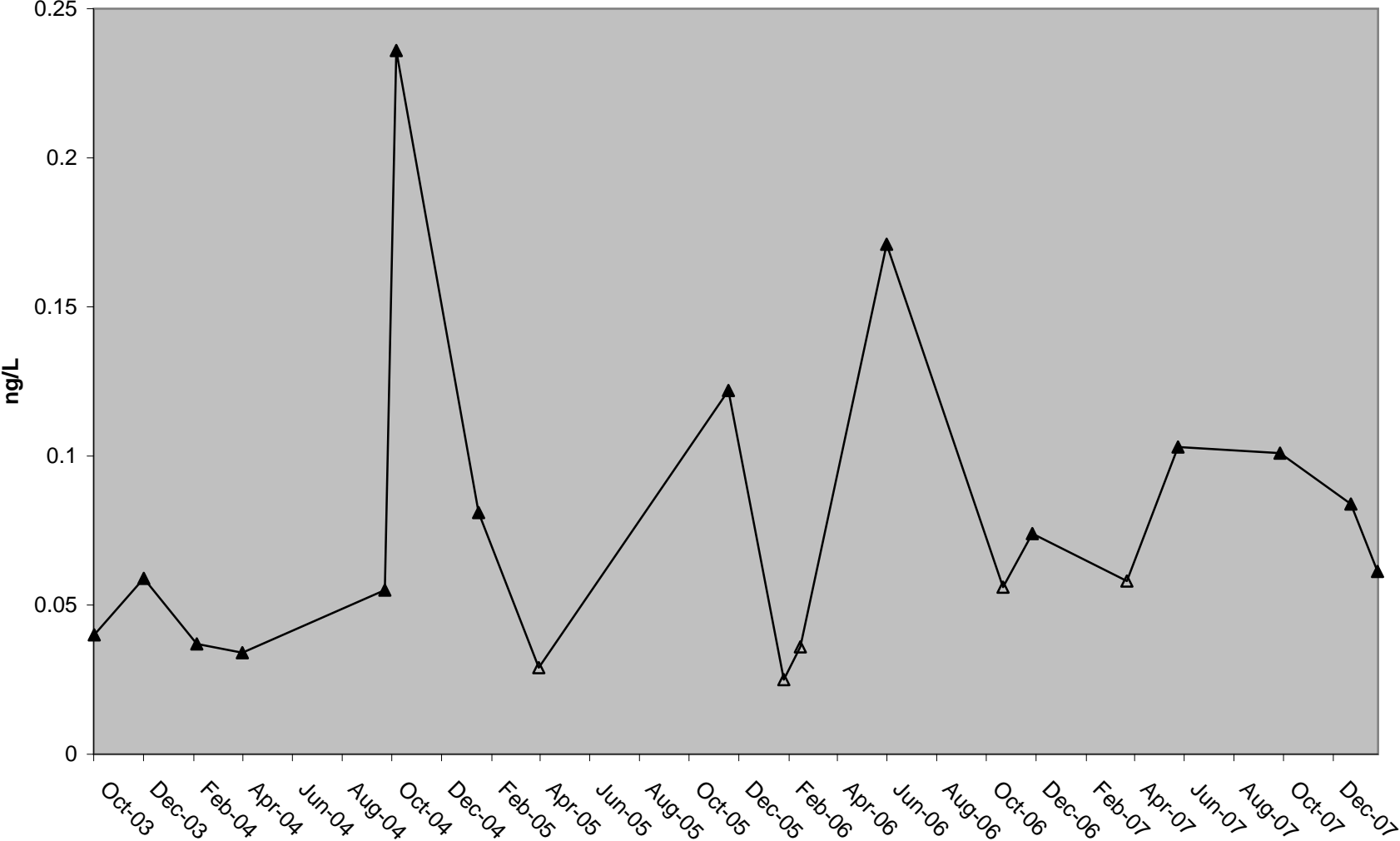
### Am River at Hwy 80 Filtered Methyl Mercury

— Trendline    △ Below Detection    ▲ Result



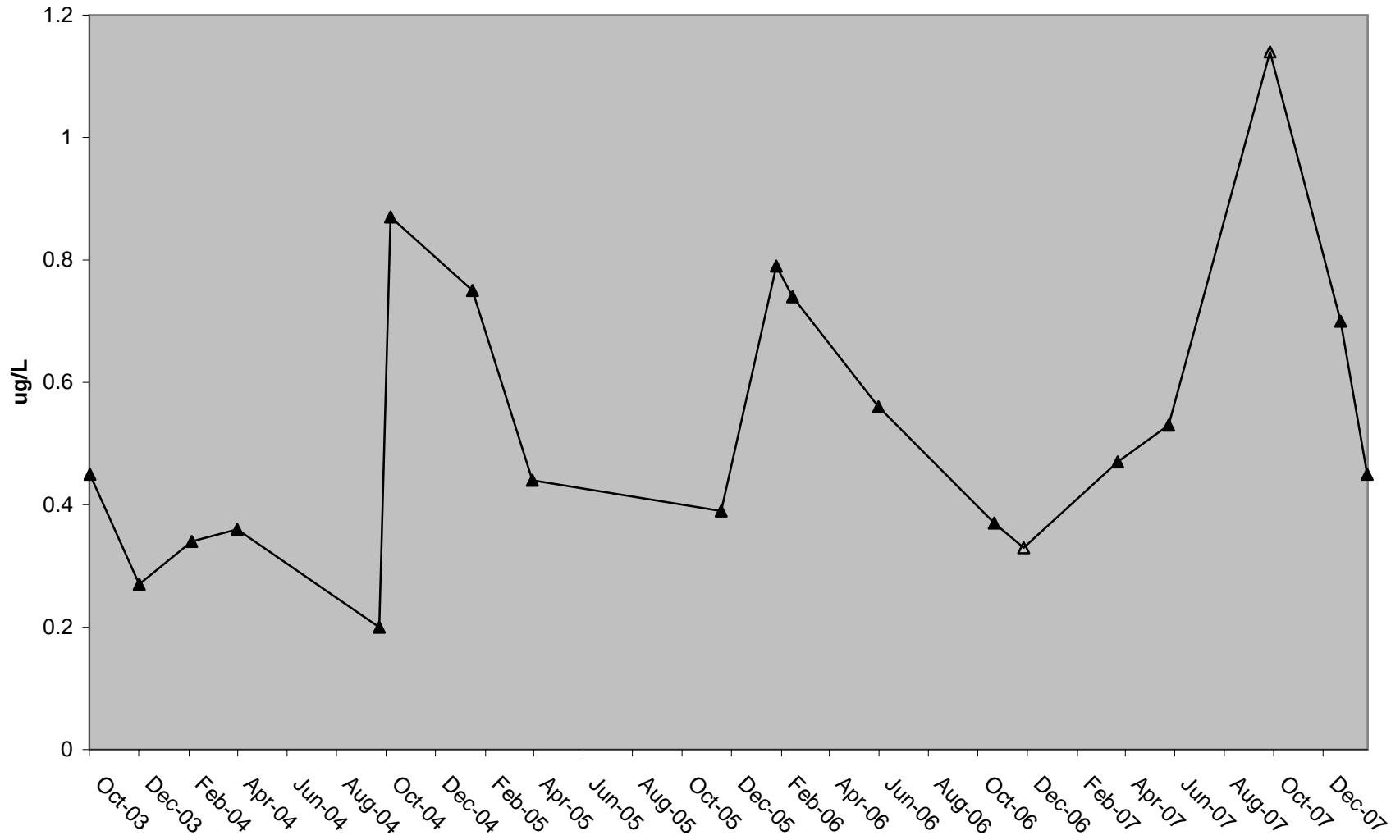
### Am River at Hwy 80 Unfiltered Methyl Mercury

— Trendline    Δ Below Detection    ▲ Result



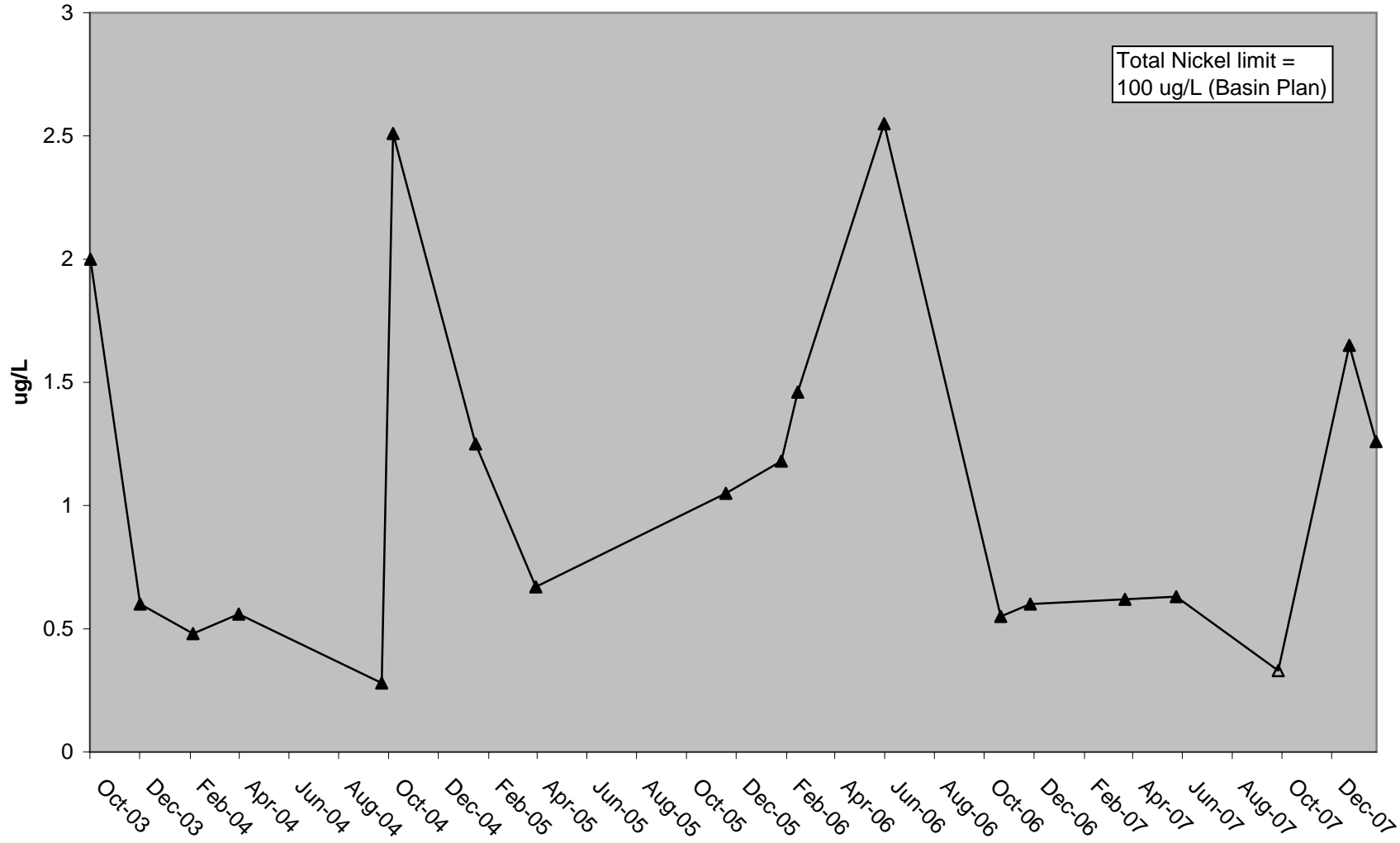
### Am River at Hwy 80 Dissolved Nickel (Ni-d)

— Trendline    △ Below Detection    ▲ Result



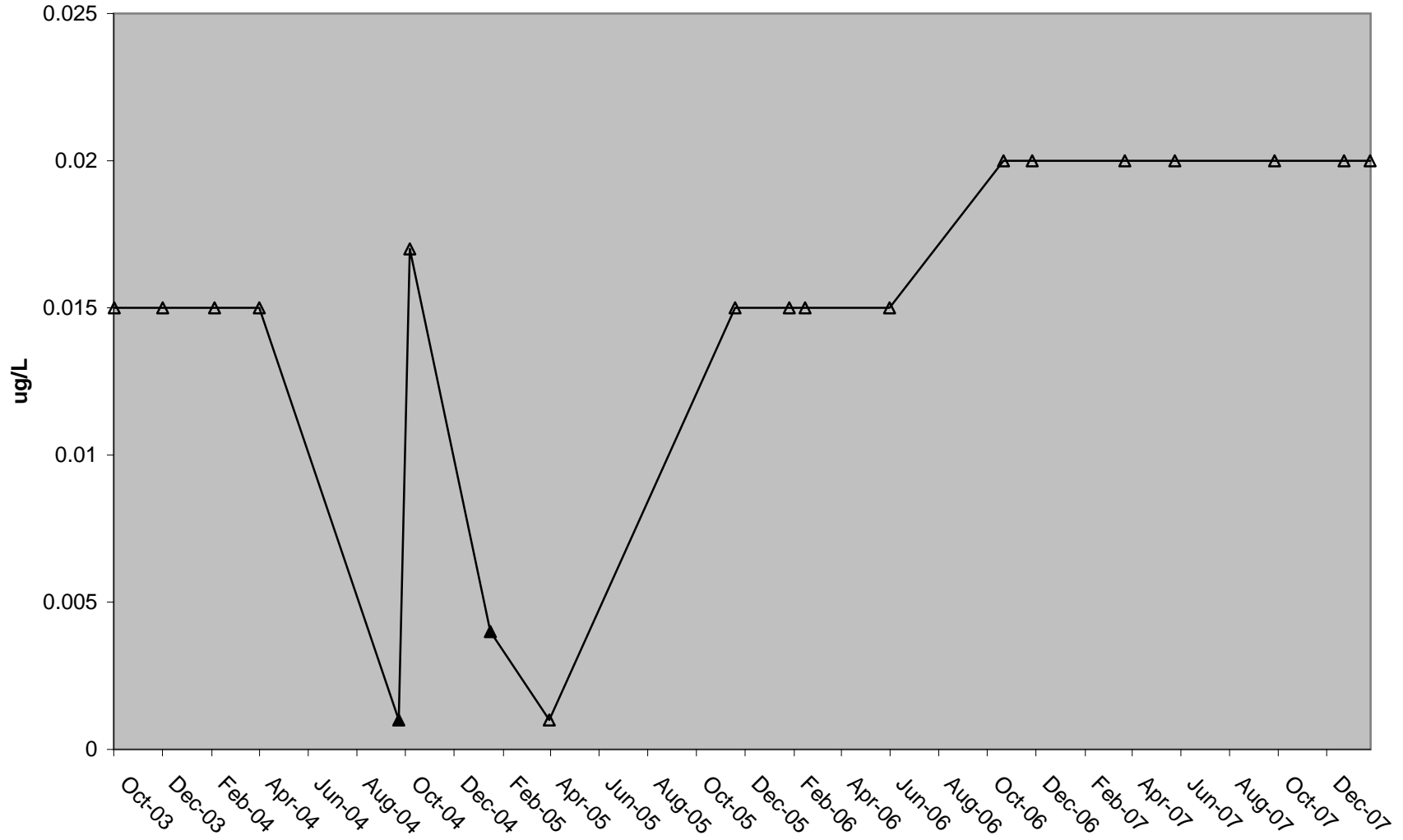
### Am River at Hwy 80 Total Nickel (Ni-T)

— Trendline    △ Below Detection    ▲ Result



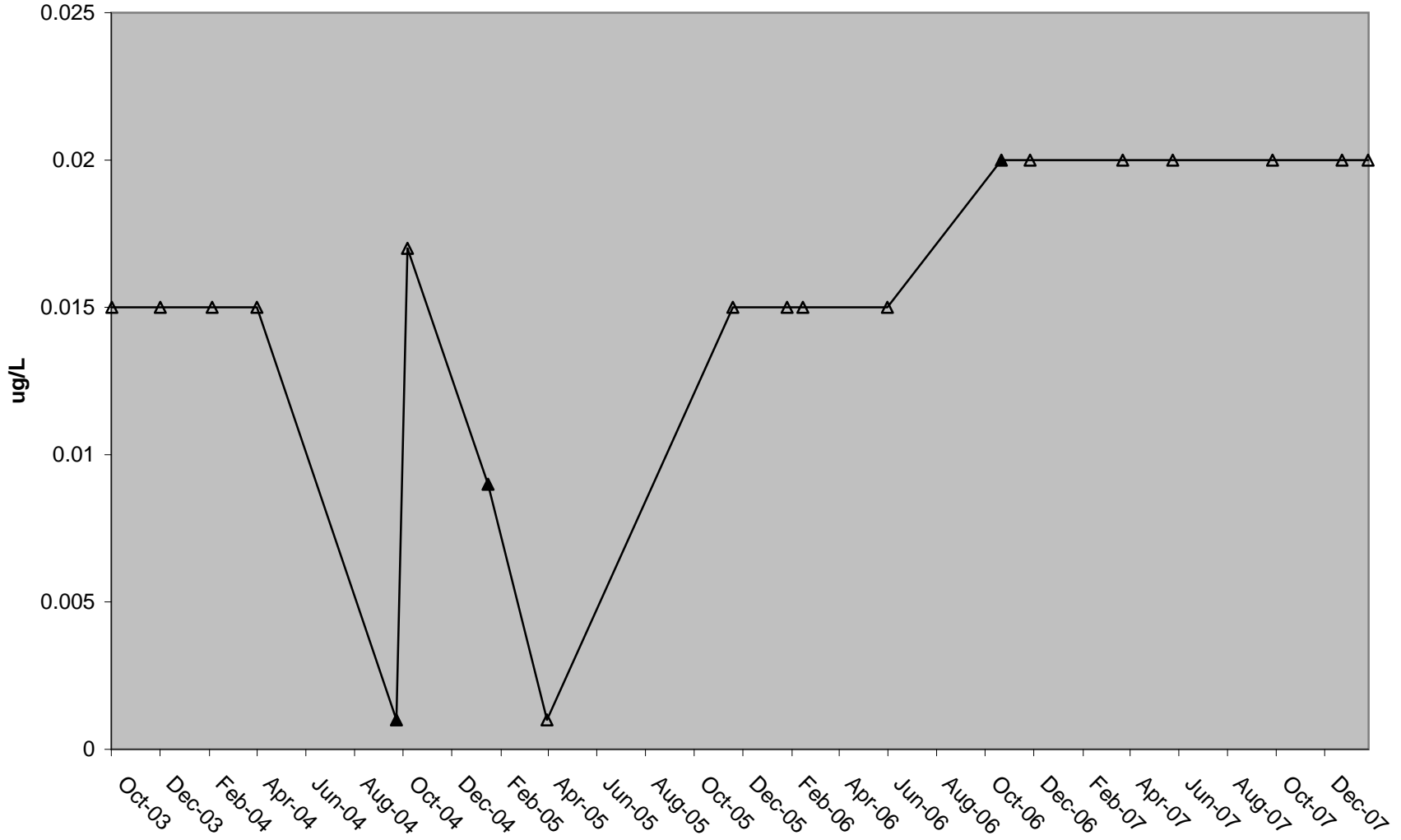
### Am River at Hwy 80 Dissolved Silver (Ag-d)

— Trendline    △ Below Detection    ▲ Result



### Am River at Hwy 80 Total Silver (Ag-T)

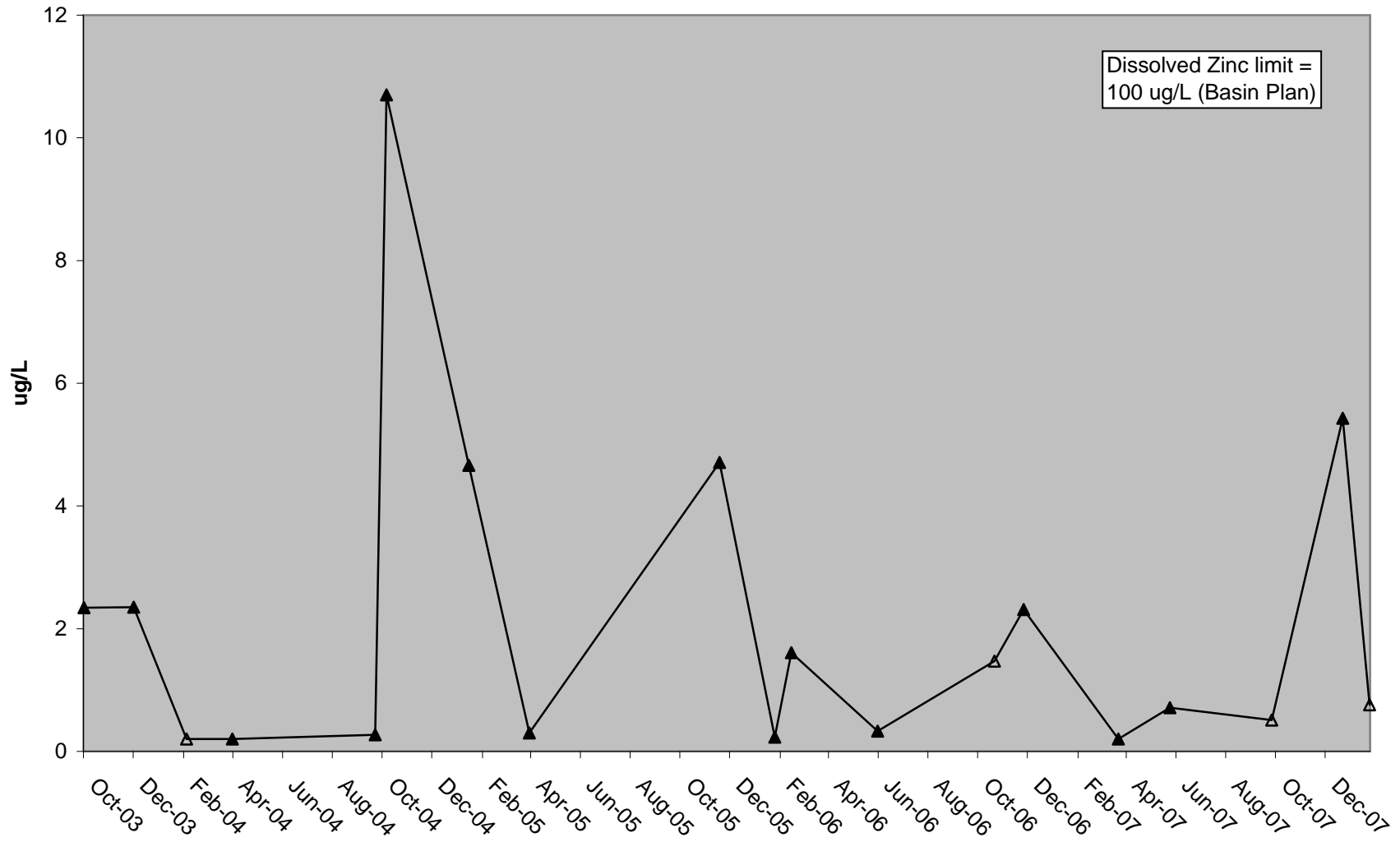
— Trendline    △ Below Detection    ▲ Result



### Am River at Hwy 80 Dissolved Zinc (Zn-d)

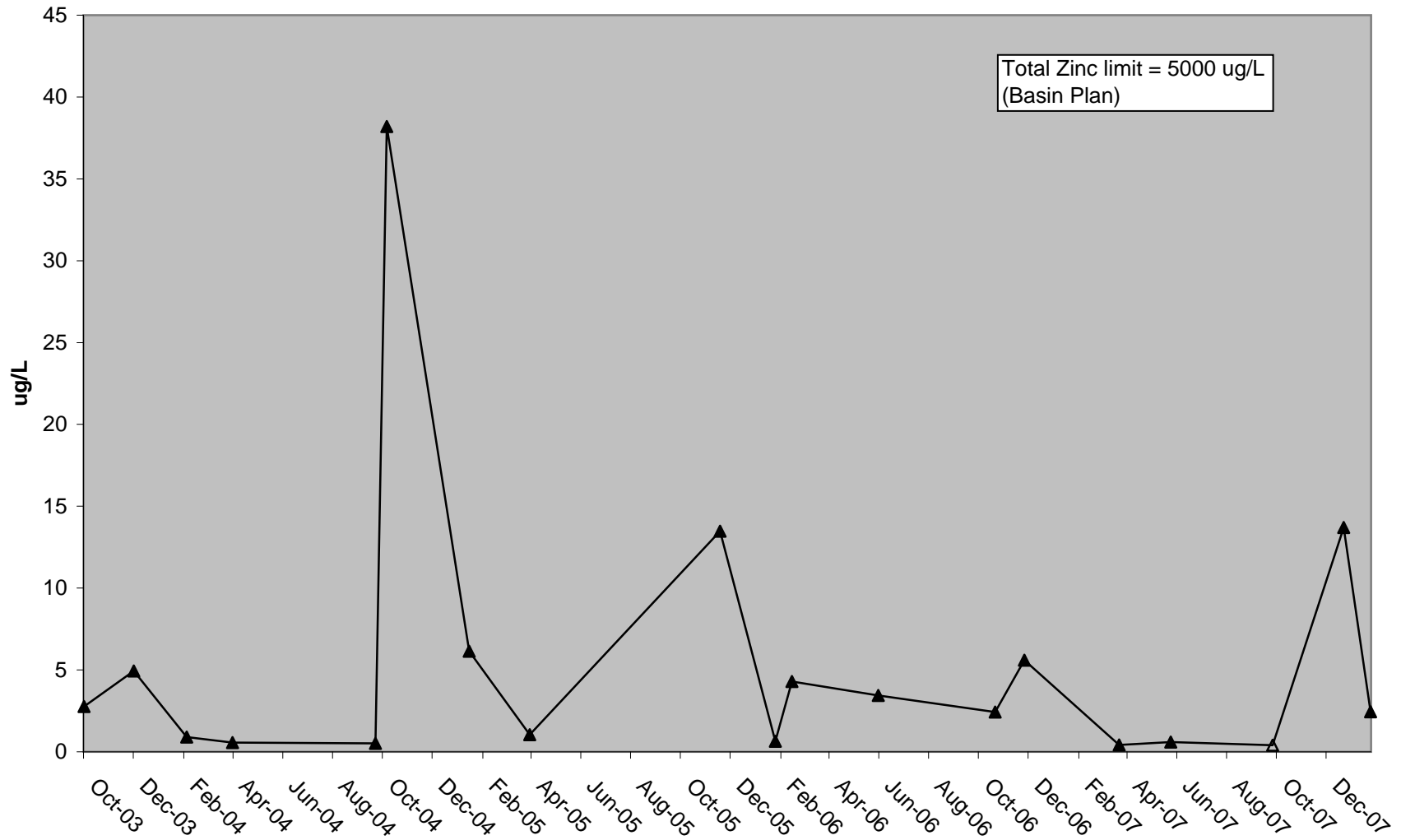
— Trendline    △ Below Detection    ▲ Result

Dissolved Zinc limit =  
100 ug/L (Basin Plan)



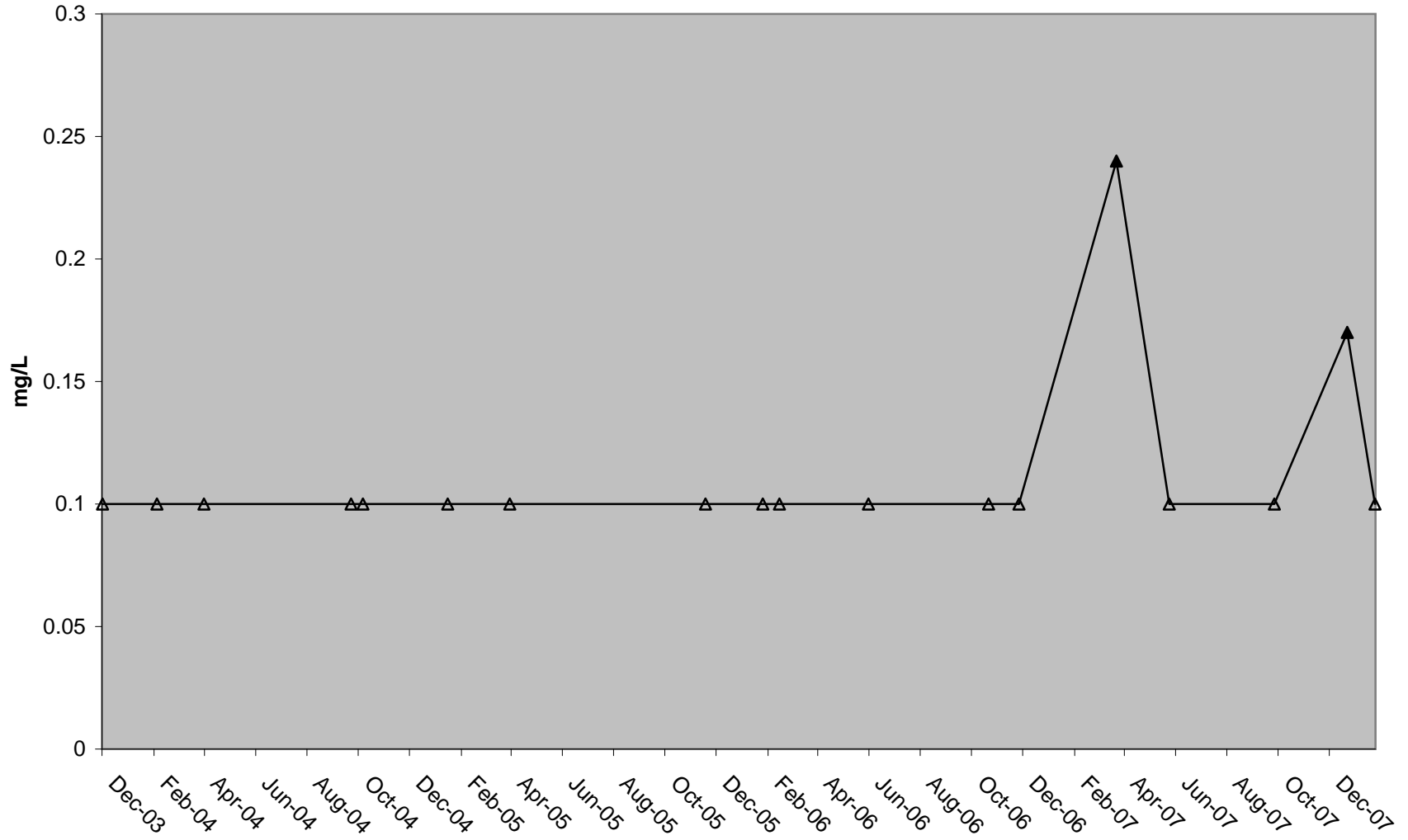
### Am River at Hwy 80 Total Zinc (Zn-T)

— Trendline    △ Below Detection    ▲ Result



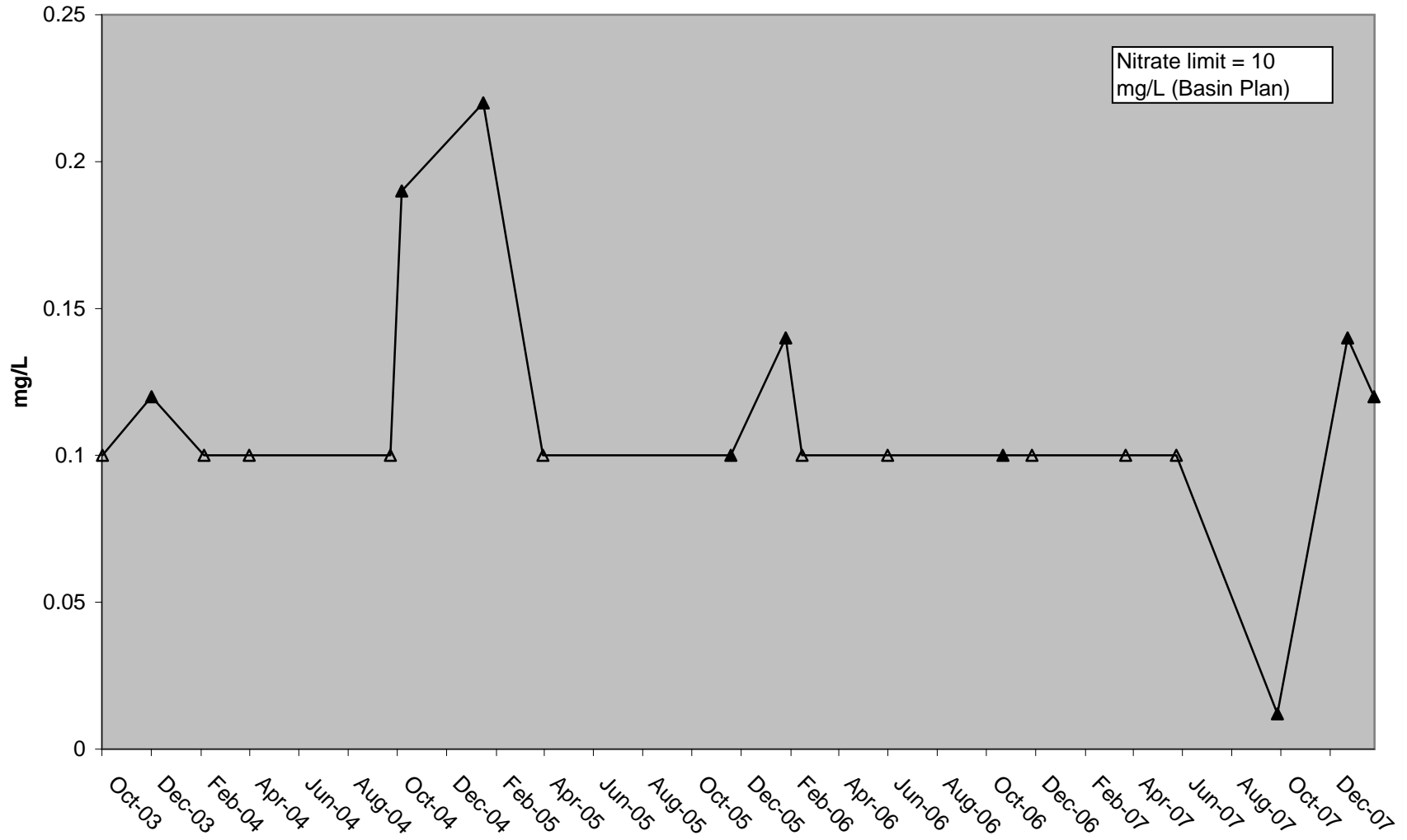
### Am River at Hwy 80 Ammonia (NH<sub>3</sub>-N)

— Trendline    Δ Below Detection    ▲ Result



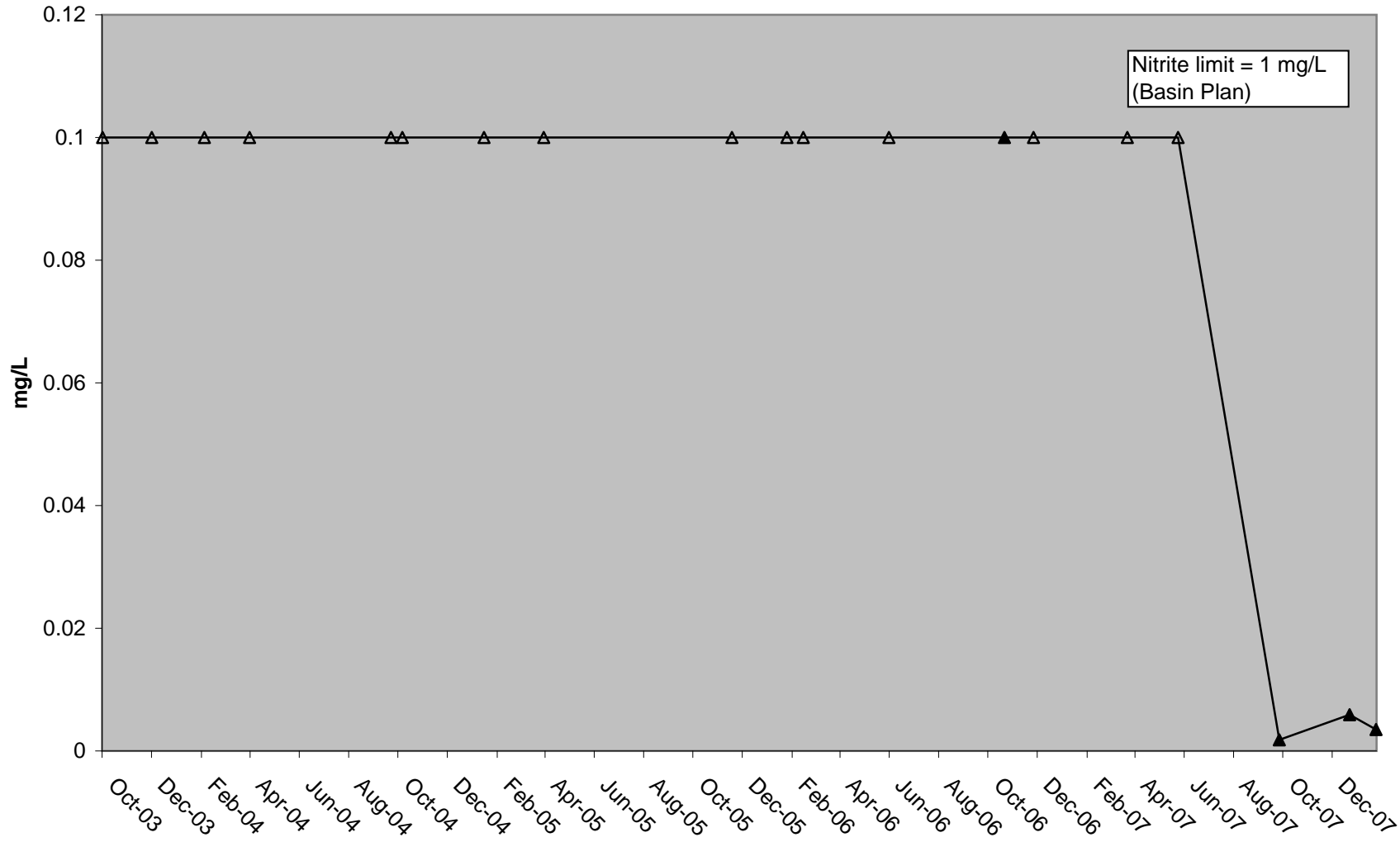
### Am River at Hwy 80 Nitrate (NO<sub>3</sub>-N)

— Trendline    Δ Below Detection    ▲ Result



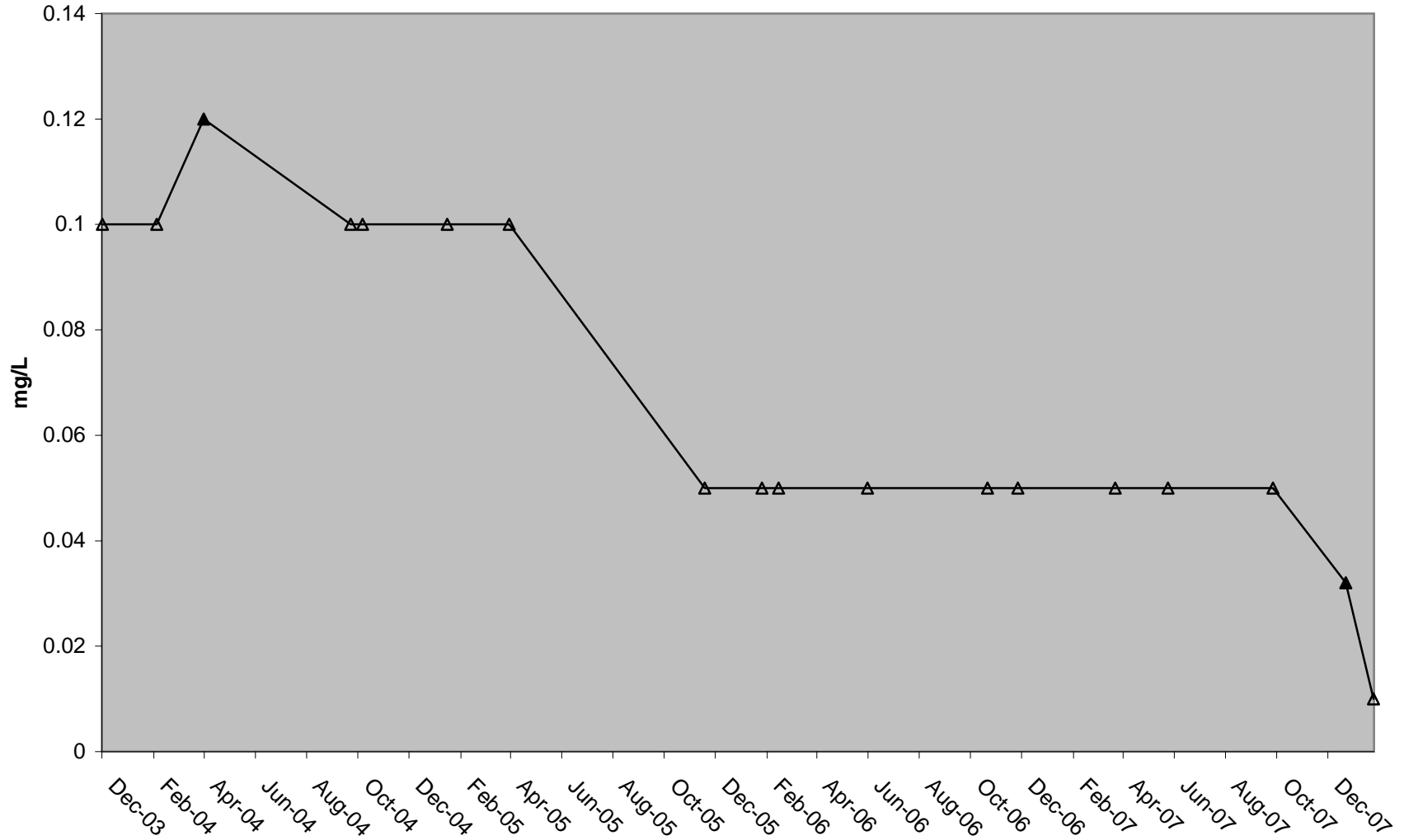
### Am River at Hwy 80 Nitrite (NO<sub>2</sub>-N)

— Trendline    Δ Below Detection    ▲ Result



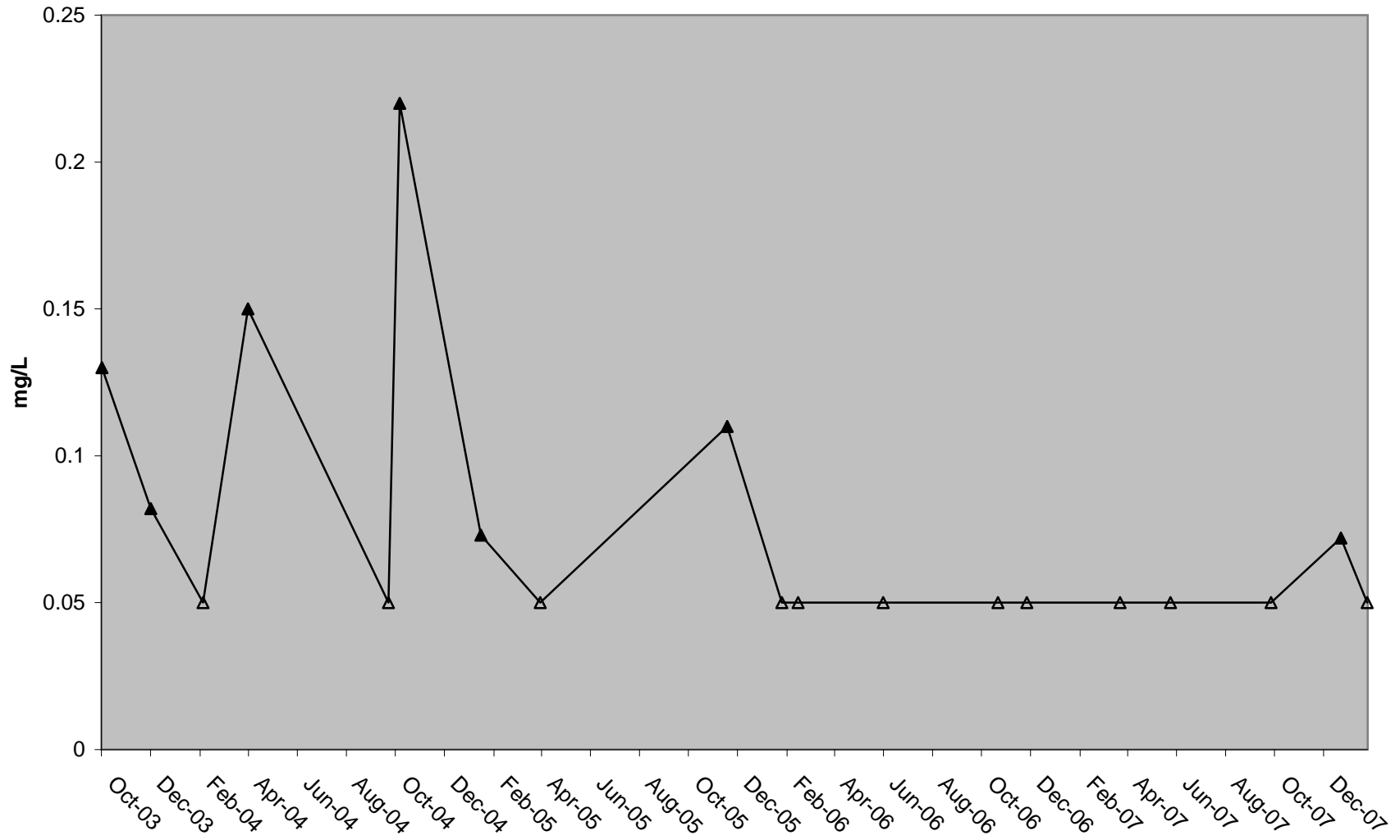
### Am River at Hwy 80 Dissolved Orthophosphate

— Trendline    △ Below Detection    ▲ Result



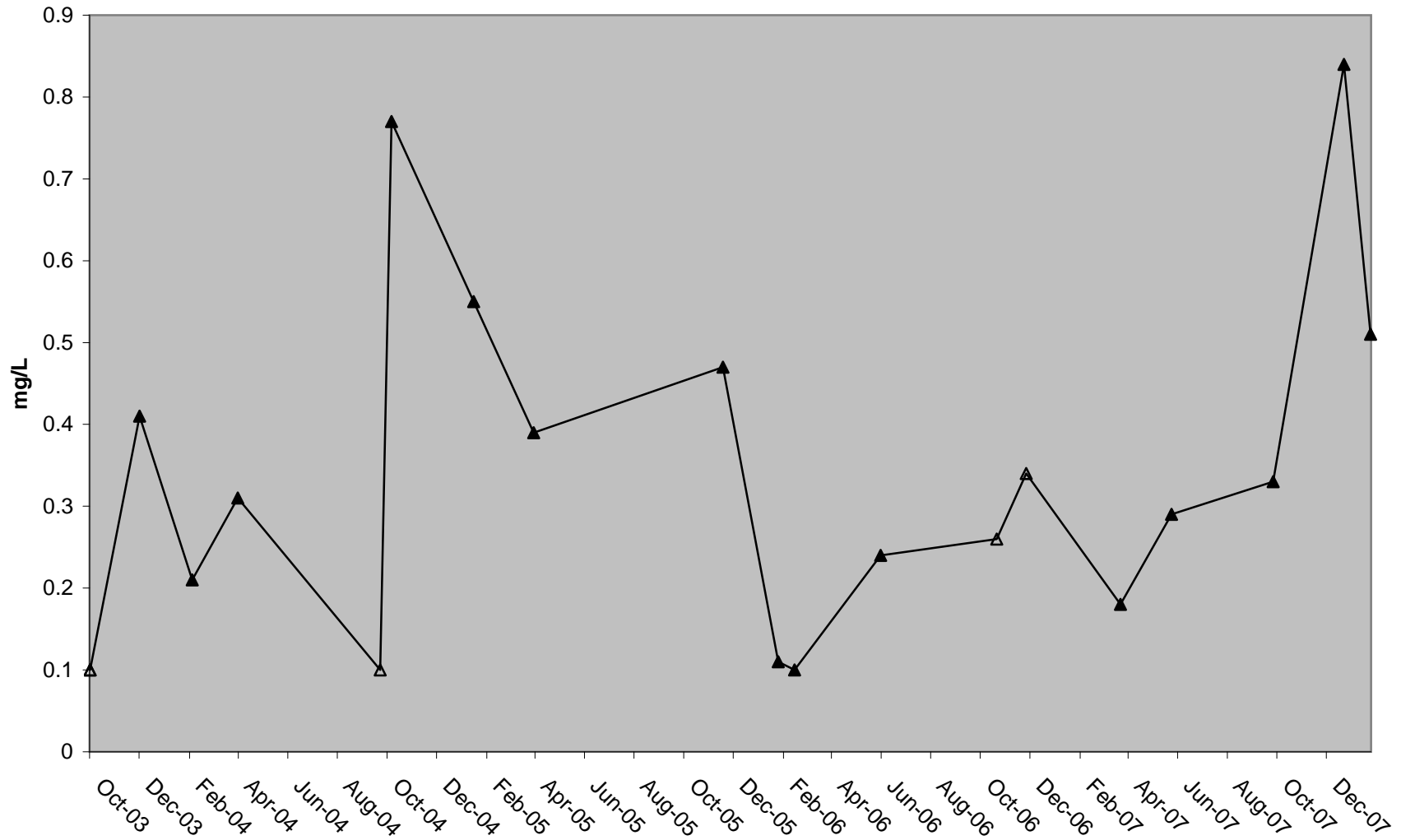
### Am River at Hwy 80 Total Phosphorus (TP)

— Trendline    Δ Below Detection    ▲ Result



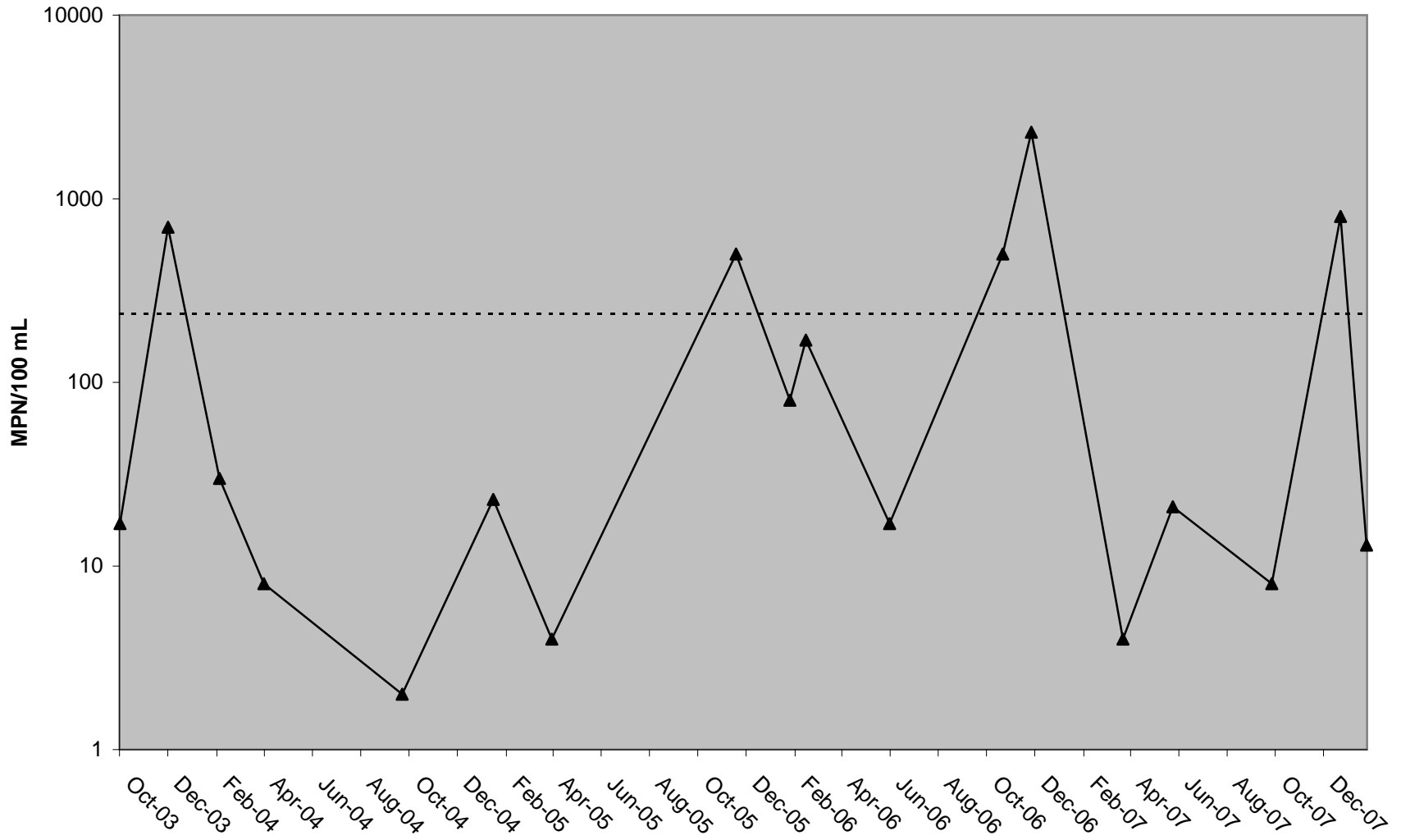
### Am River at Hwy 80 Total Kjeldahl Nitrogen (TKN)

— Trendline    △ Below Detection    ▲ Result



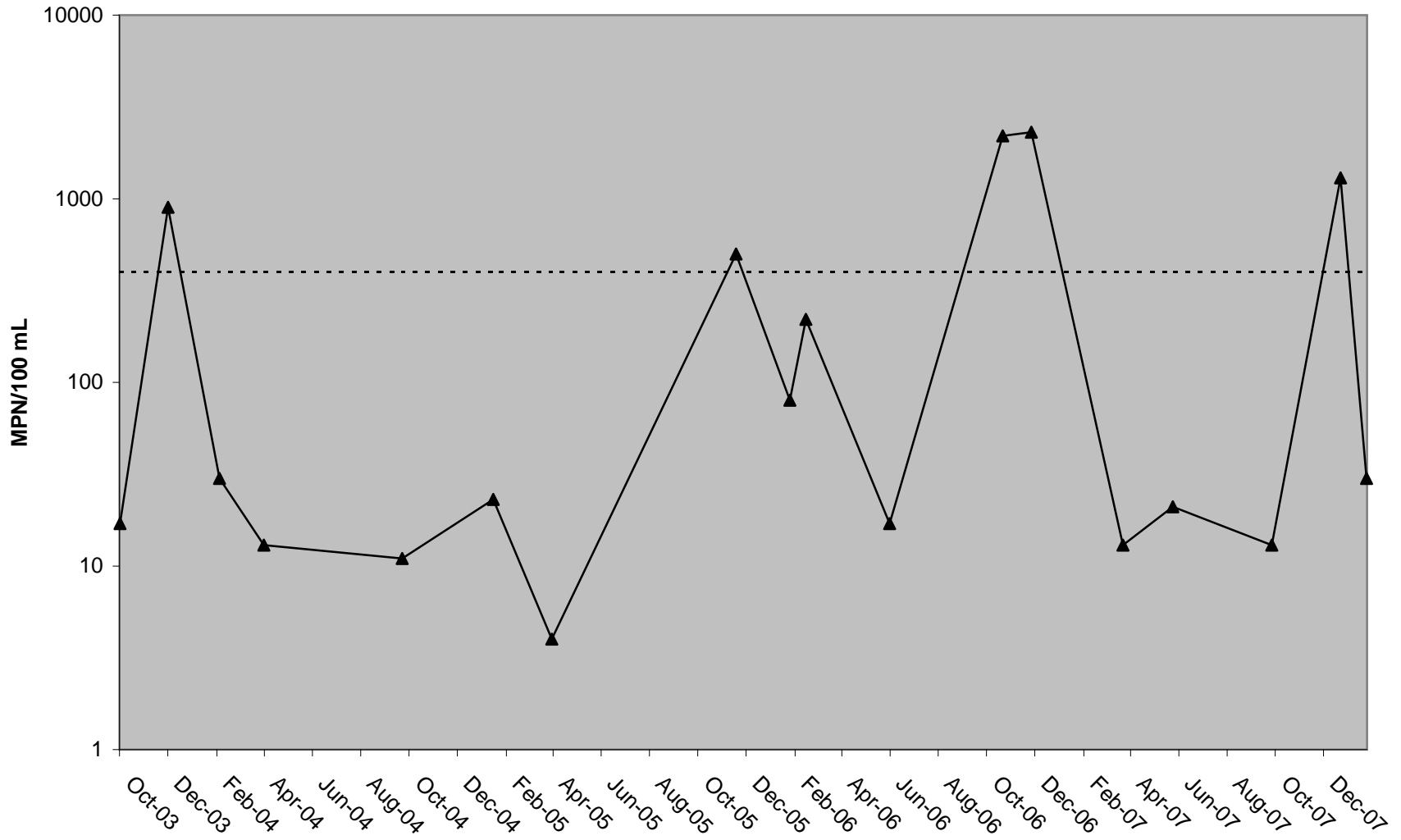
### Am River at Hwy 80 *E. coli*

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



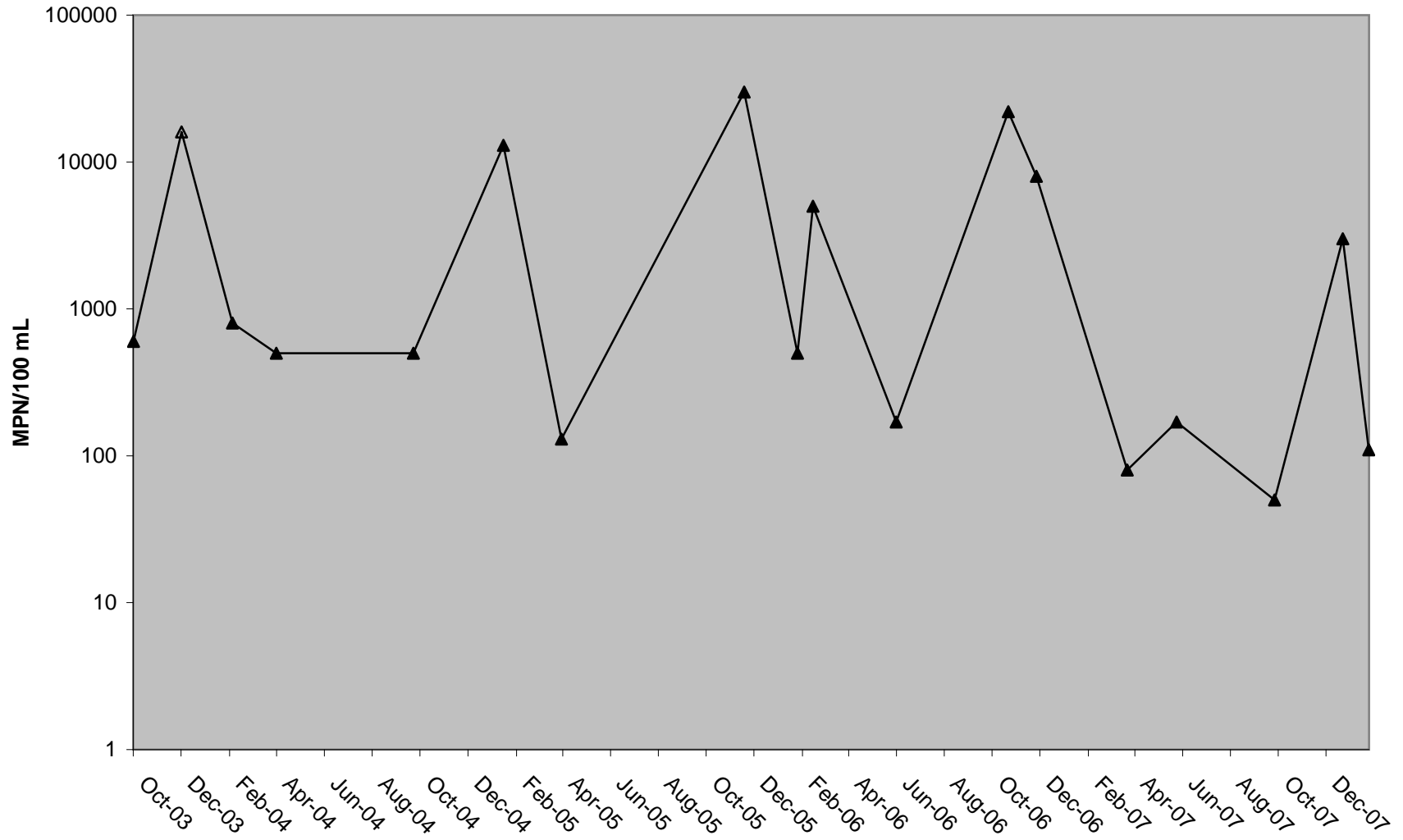
### Am River at Hwy 80 Fecal Coliform

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



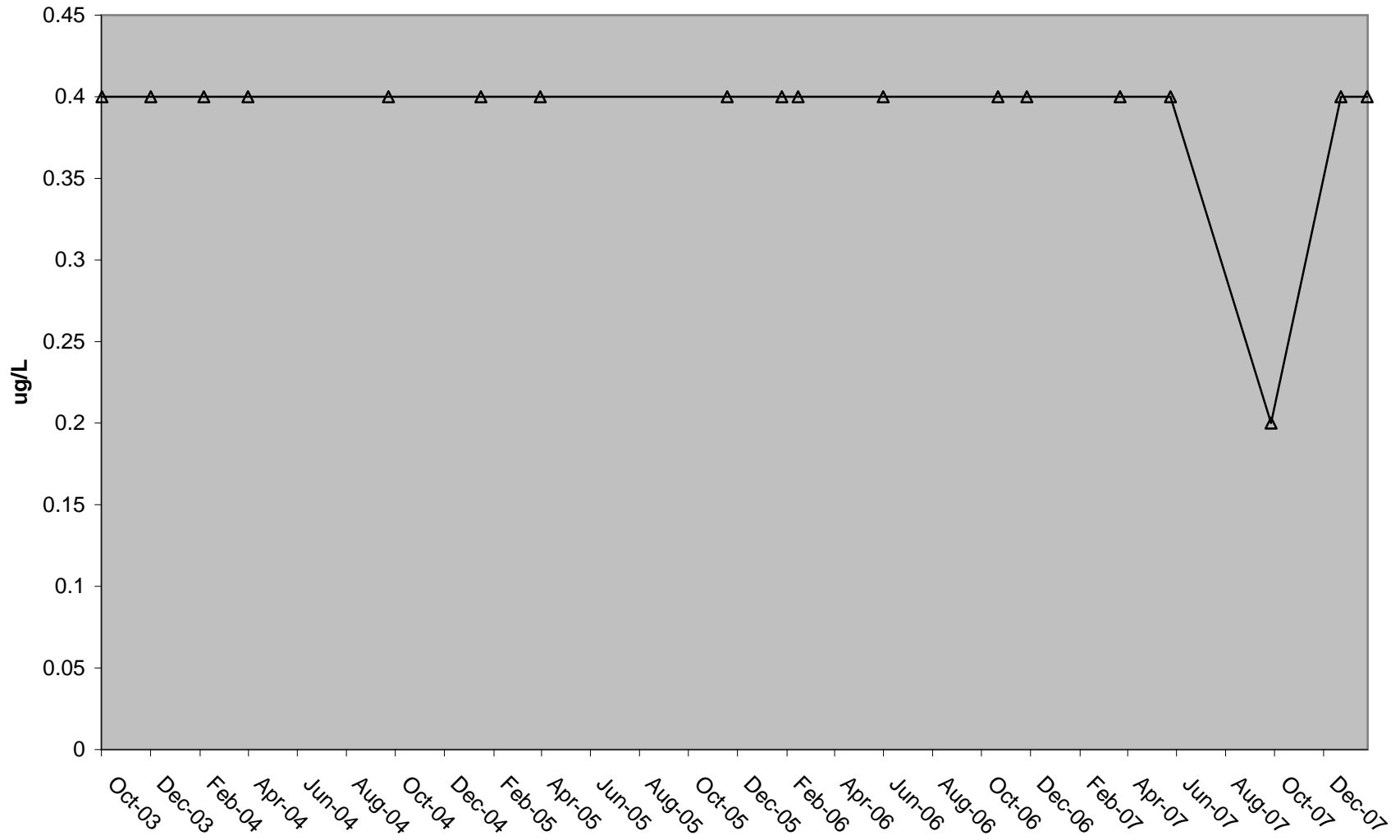
### Am River at Hwy 80 Total Coliform

— Trendline    Δ Below Detection    ▲ Result



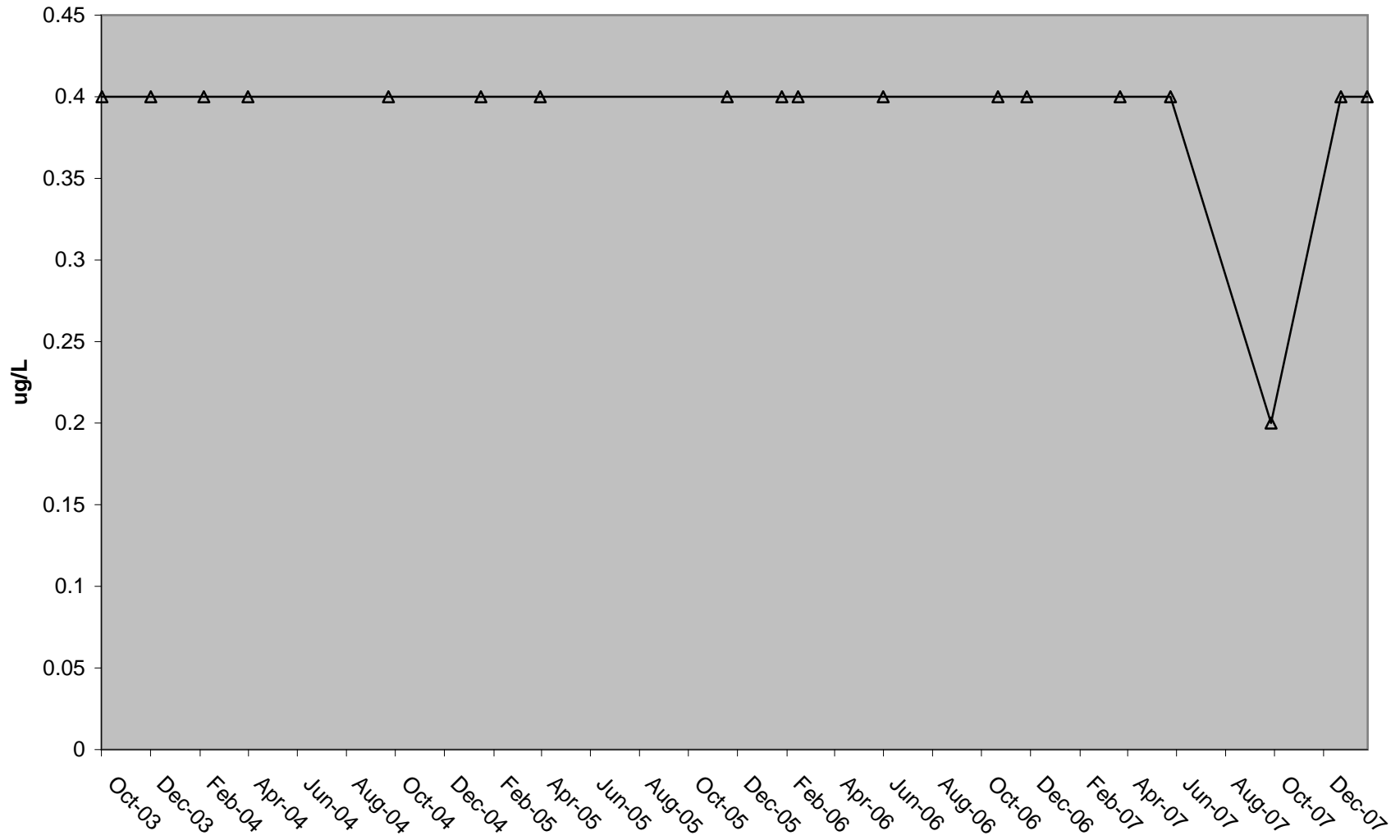
### Am River at Hwy 80 Aldicarb

— Trendline    Δ Below Detection    ▲ Result

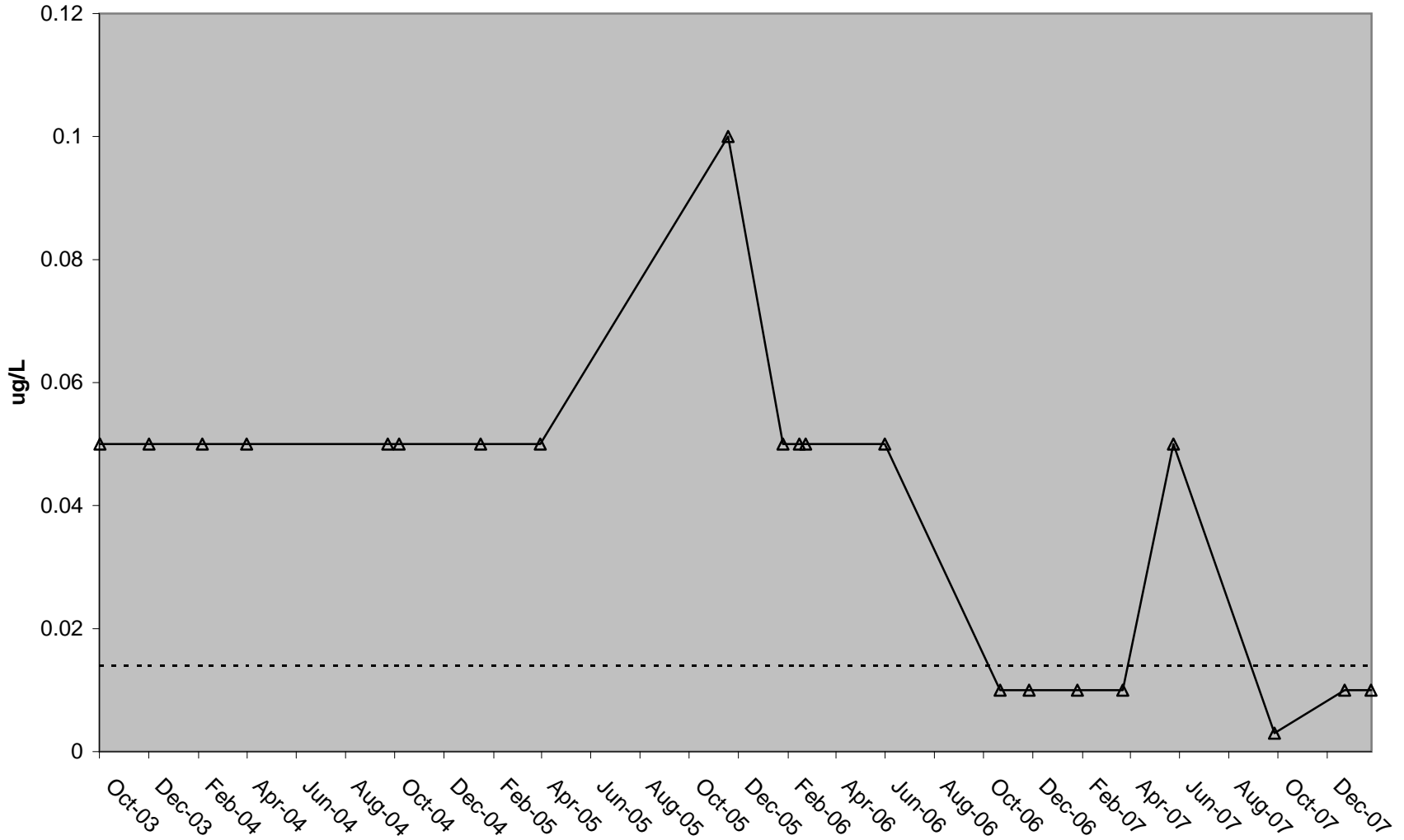
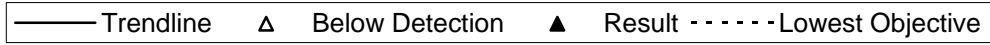


### Am River at Hwy 80 Propoxur

— Trendline    △ Below Detection    ▲ Result

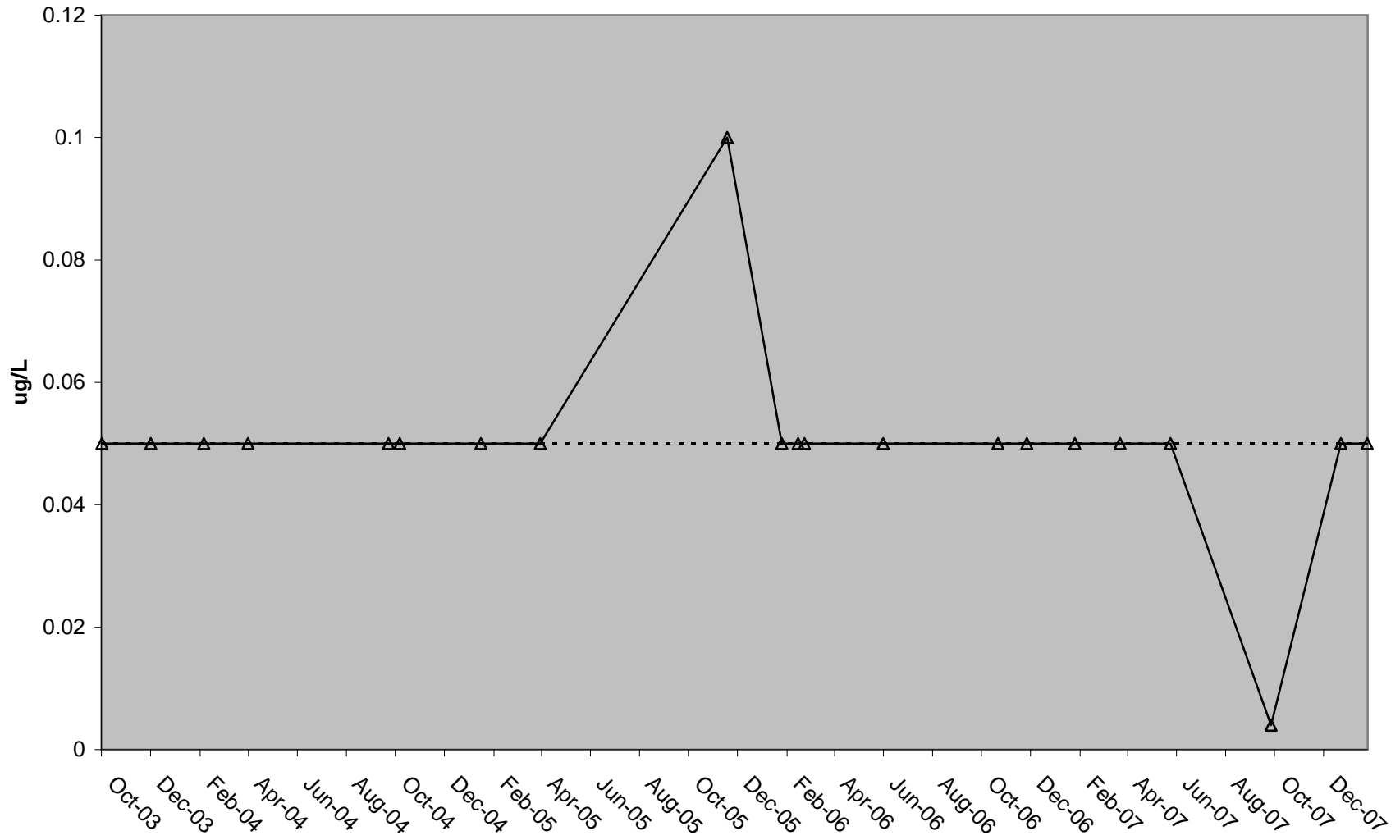


### Am River at Hwy 80 Chlorpyrifos



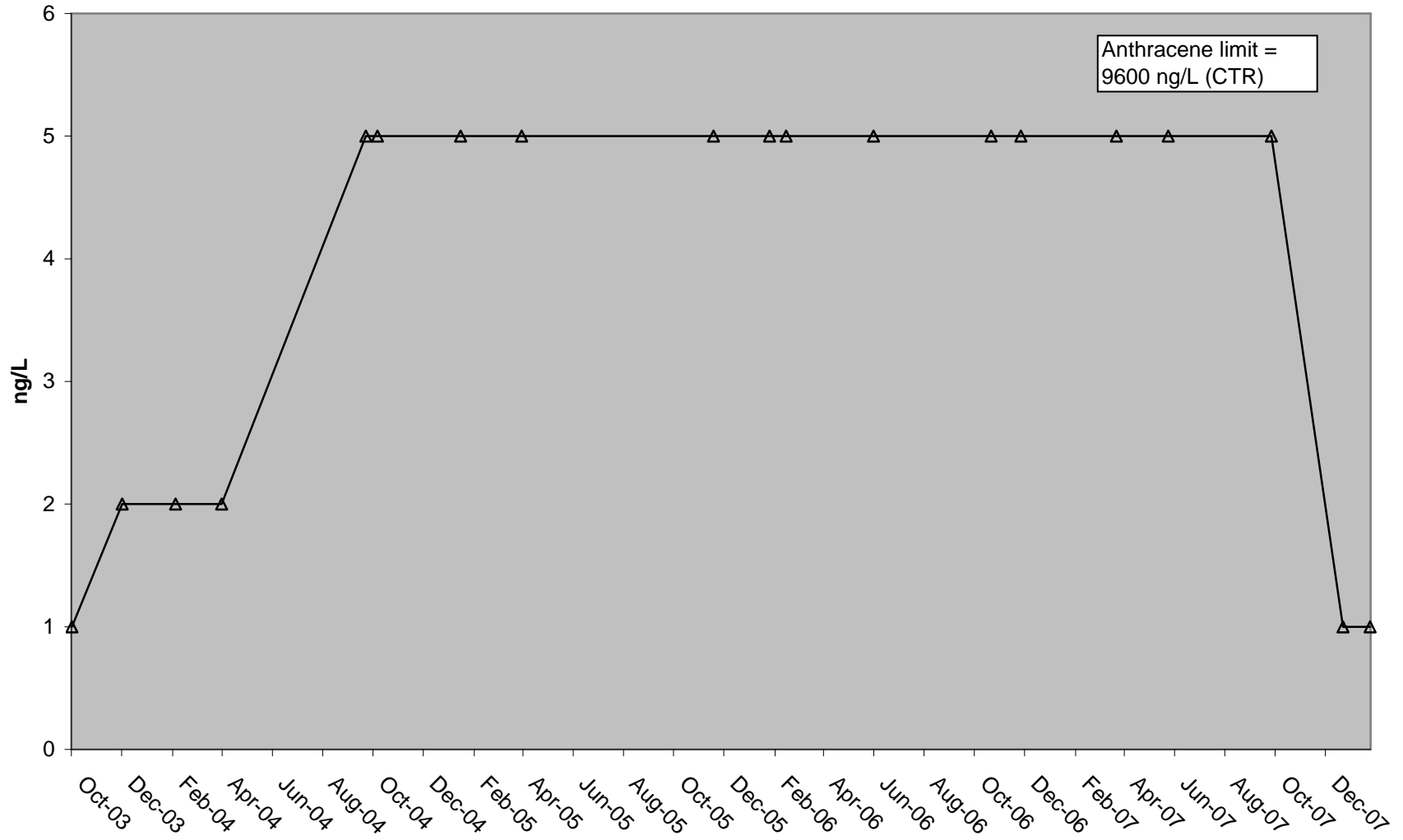
### Am River at Hwy 80 Dazinon

— Trendline    Δ Below Detection    ▲ Result    - - - - Lowest Objective



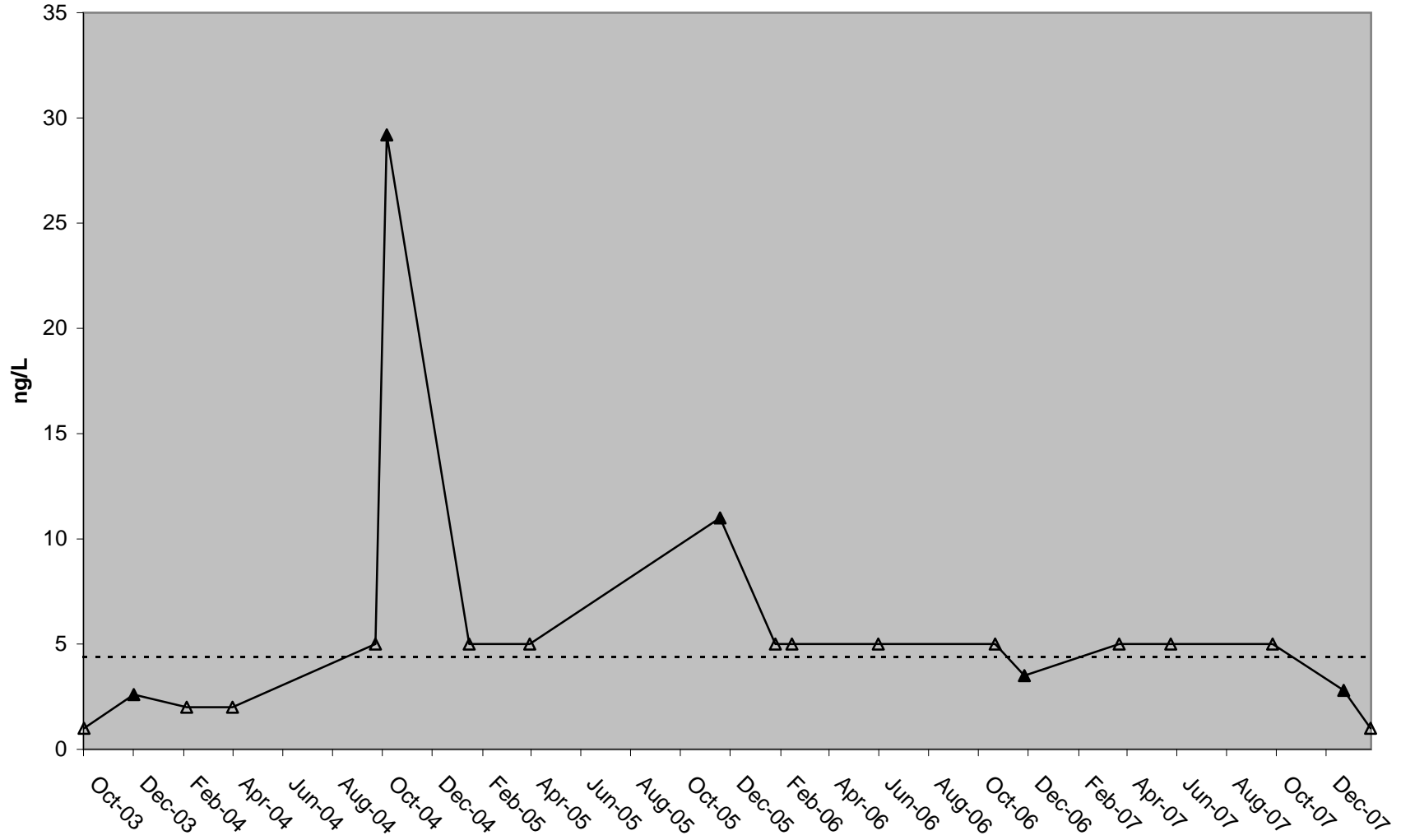
### Am River at Hwy 80 Anthracene

— Trendline    Δ Below Detection    ▲ Result



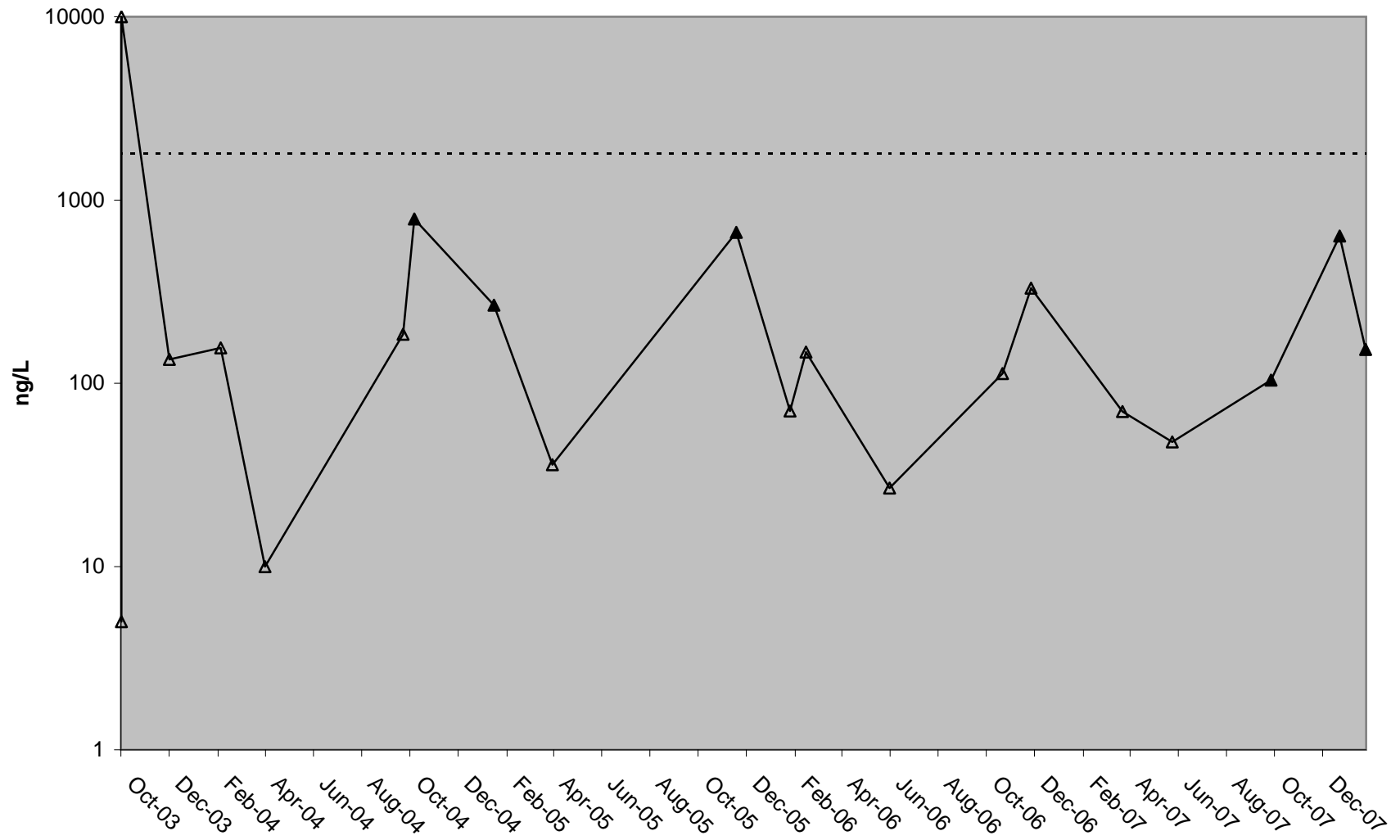
### Am River at Hwy 80 Benzo(k)fluoranthene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



### Am River at Hwy 80 Bis(2-ethylhexyl) phthalate

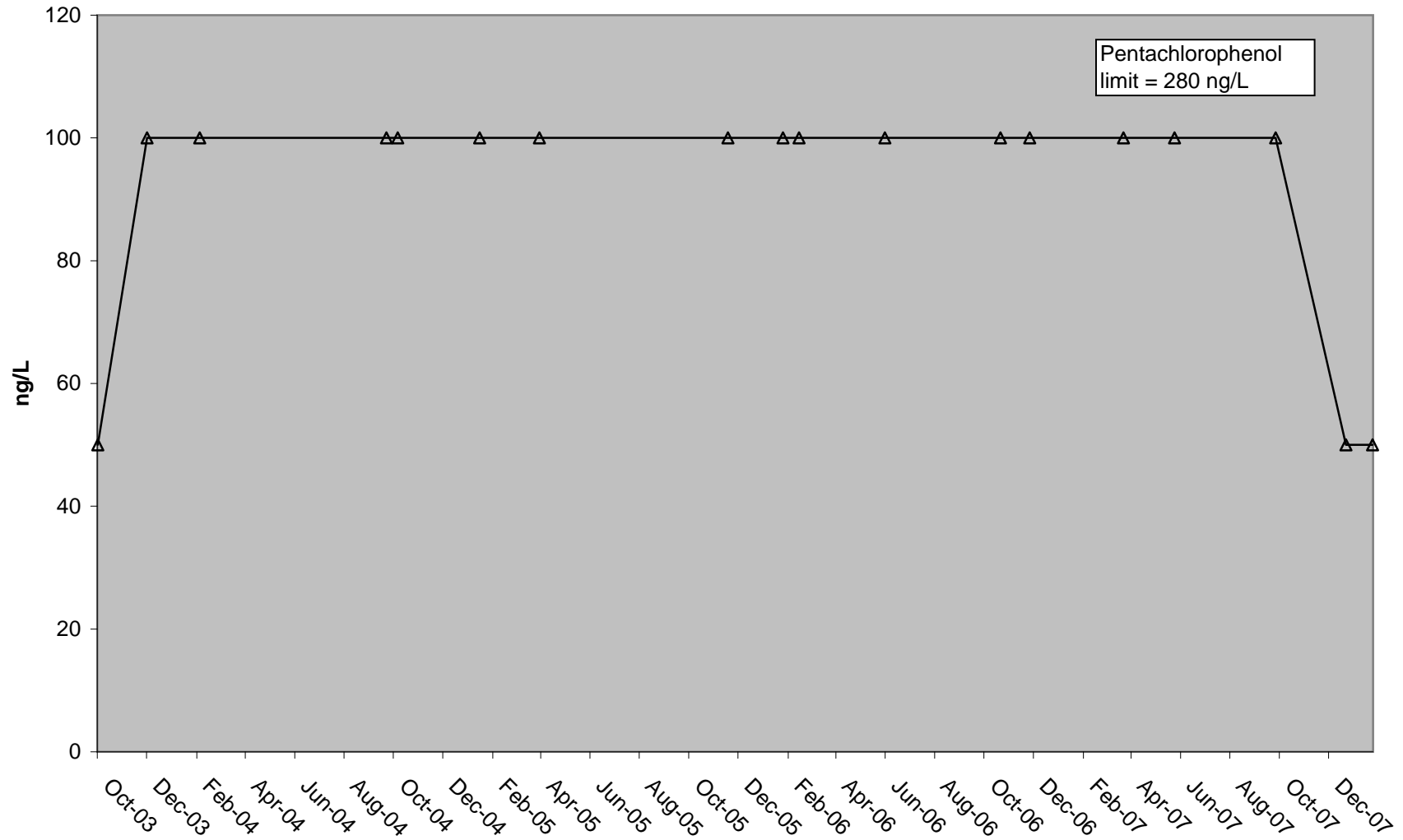
— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



### Am River at Hwy 80 Pentachlorophenol

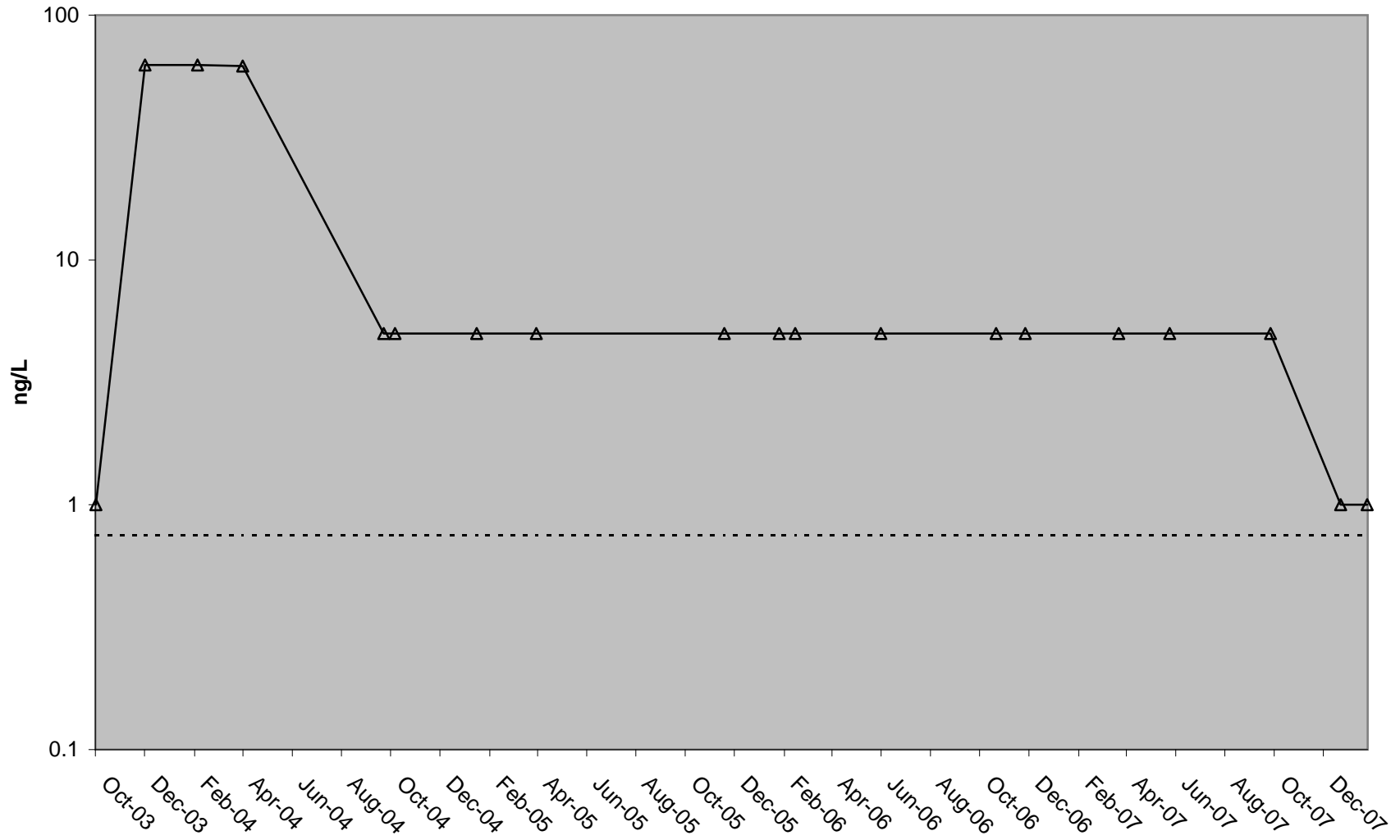
— Trendline    △ Below Detection    ▲ Result

Pentachlorophenol  
limit = 280 ng/L



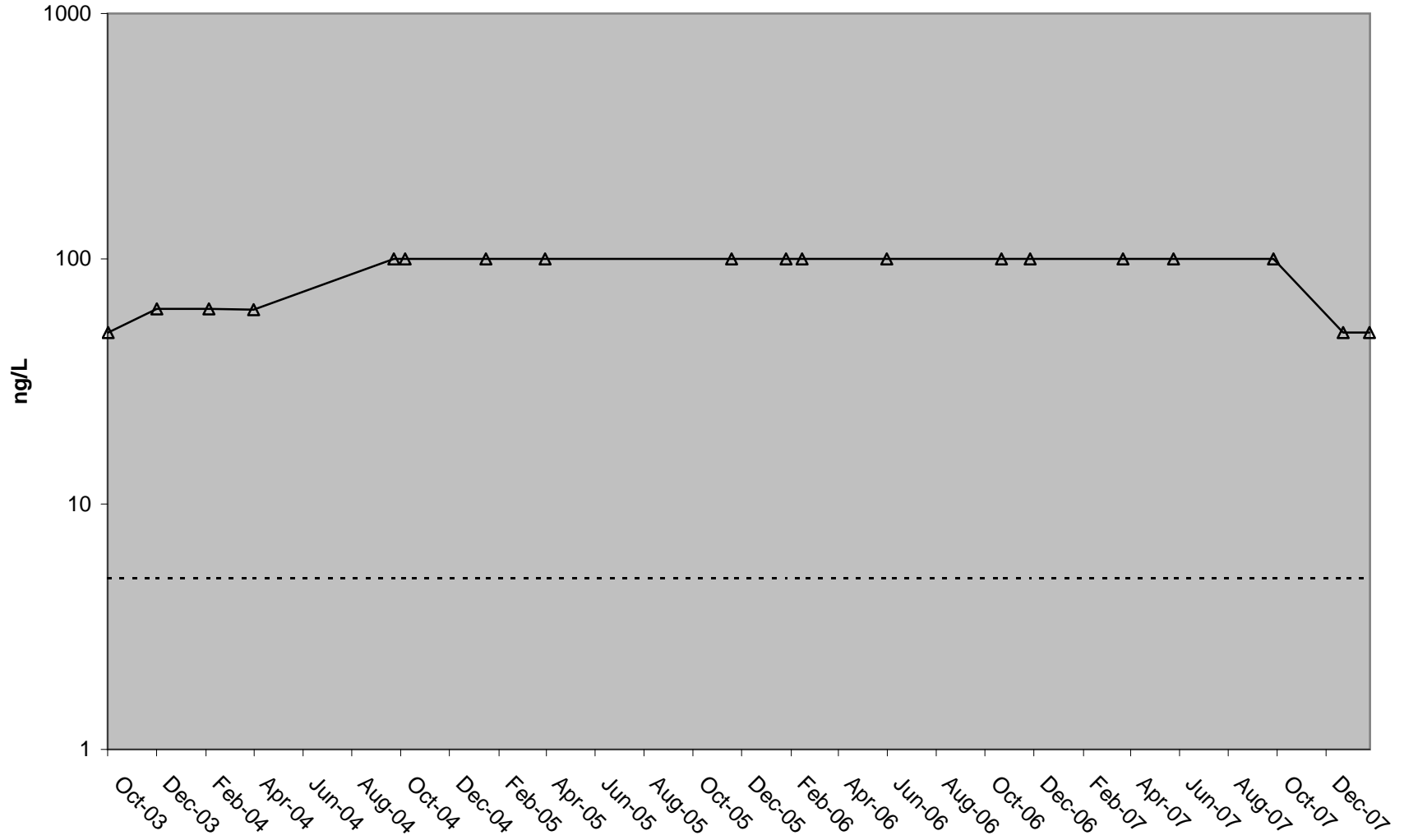
### Am River at Hwy 80 Hexachlorobenzene

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



### Am River at Hwy 80 N-Nitroso-di-n-propylamine

— Trendline    Δ Below Detection    ▲ Result    - - - - - Lowest Objective



### Am River at Hwy 80 MTBE

— Trendline    △ Below Detection    ▲ Result

