CYPRUS PLATEAU MINING CORP.

STAR POINT MINE 1995 HYDROLOGIC MONITORING REPORT

VOLUME 2 OF 2
APPENDICES B, C & D

ANNUAL REPORT

April 1996

HANSEN ALLEN & LUCE INC
SALT LAKE CITY, UTAH

APPENDIX B
WELLS

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 25, 1996

Station: P8601TD | Property: Star Point | Location: 250' N 1560' W of SE corn. Sec 7, T15S, R8E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8483

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Elev. (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-86																							
Feb-86																							
Mar-86																							
Apr-86																							
May-86	05/15/86	8350.2																					
Jun-86																							
Jul-86																							
Aug-86																							
Sep-86																							
Oct-86	10/15/86	8350.2																					
Nov-86																							
Dec-86																							
Jan-87																							
Feb-87																							
Mar-87	03/15/87	8350.2																					
Apr-87																							
May-87																							
Jun-87																							
Jul-87																							
Aug-87																							
Sep-87	09/24/87		7.6	2200	5	672			662	466		11	222	127	89	6	7		0.15	2.17	0.11	
Oct-87	10/15/87	8350.2																					
Nov-87																							
Dec-87																							
Jan-88																							
Feb-88																							
Mar-88																							
Apr-88																							
May-88	05/15/88	8350.2																					
Jun-88																							
Jul-88																							
Aug-88																							
Sep-88																							
Oct-88																							
Nov-88																							
Dec-88	12/15/88	8350.2																					
Jan-89																							
Feb-89																							
Mar-89																							
Apr-89																							
May-89																							
Jun-89																							
Jul-89																							
Aug-89																							
Sep-89																							
Oct-89	10/15/89	8350.2																					
Nov-89																							
Dec-89																							
Jan-90	01/15/90	8349.7																					
Feb-90																							
Mar-90																							
Apr-90																							
May-90																							
Jun-90																							
Jul-90	07/15/90	8349.7																					
Aug-90																							
Sep-90																							
Oct-90																							
Nov-90																							
Dec-90																							
Jan-91	01/15/91	8350																					
Feb-91																							
Mar-91																							
Apr-91	04/15/91	8350																					
May-91																							
Jun-91																							
Jul-91																							
Aug-91																							
Sep-91																							
Oct-91	10/15/91	8350																					
Nov-91																							
Dec-91																							

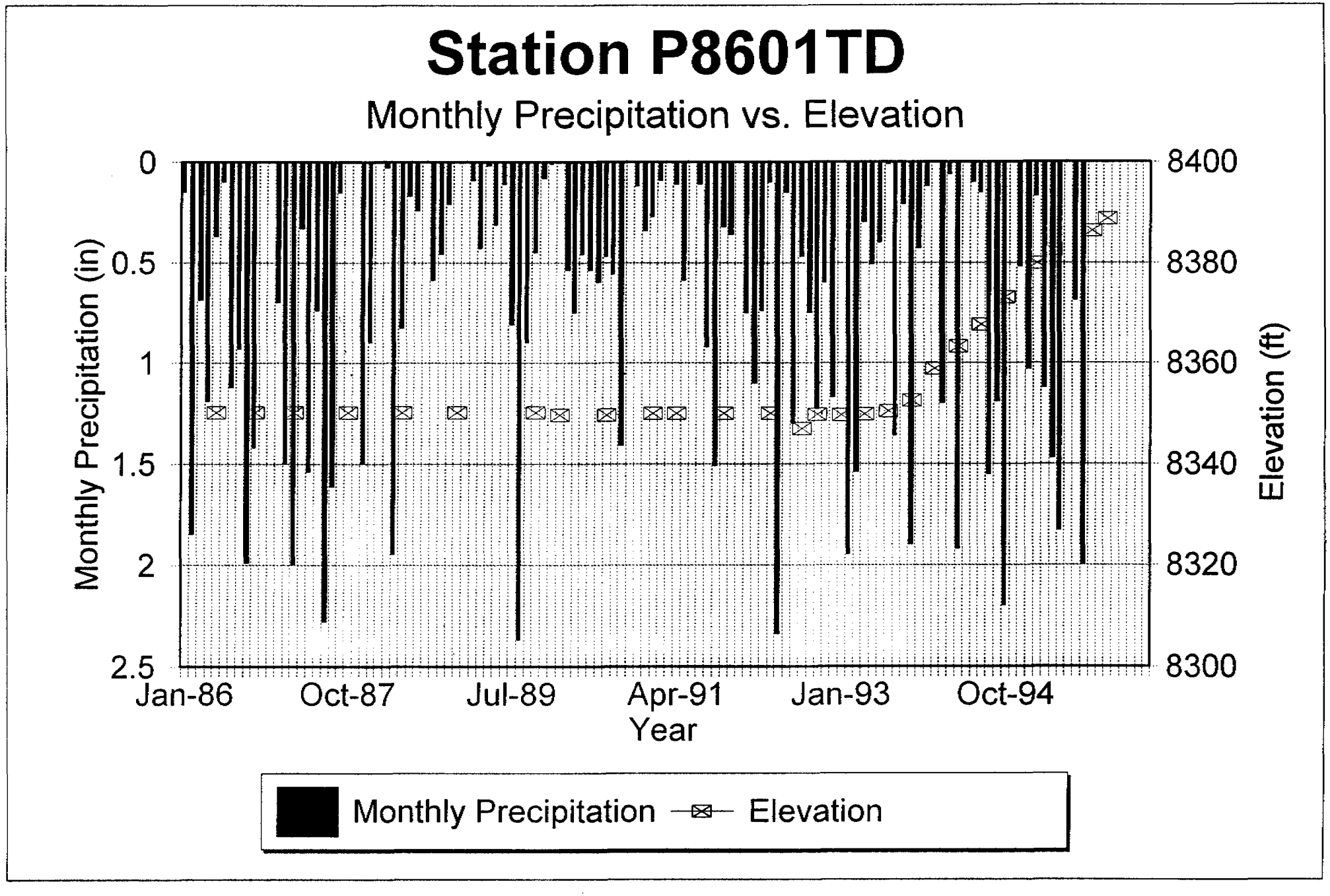
Cyprus Plateau Mining Company - Water Quality Data

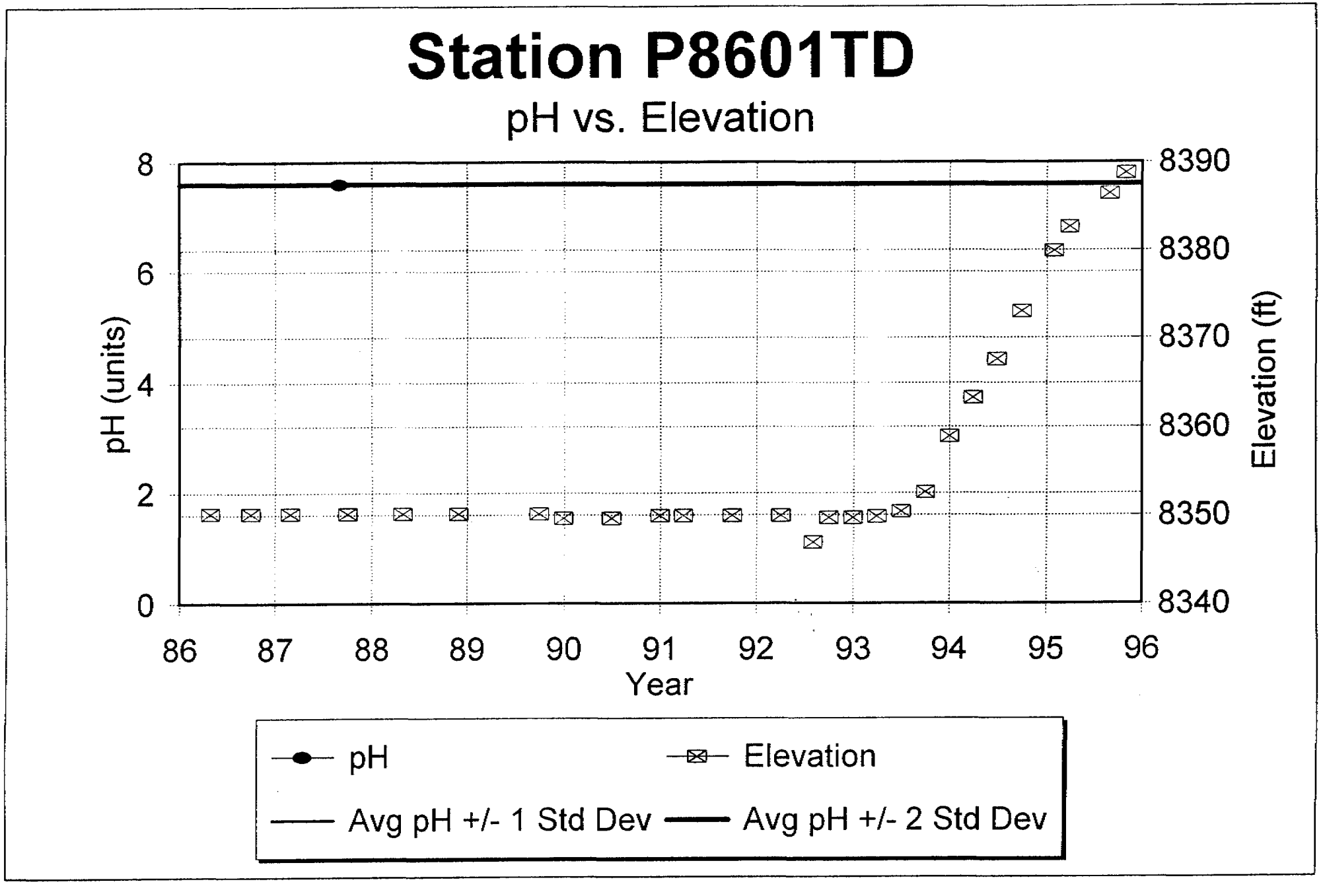
Print Date: April 25, 1996

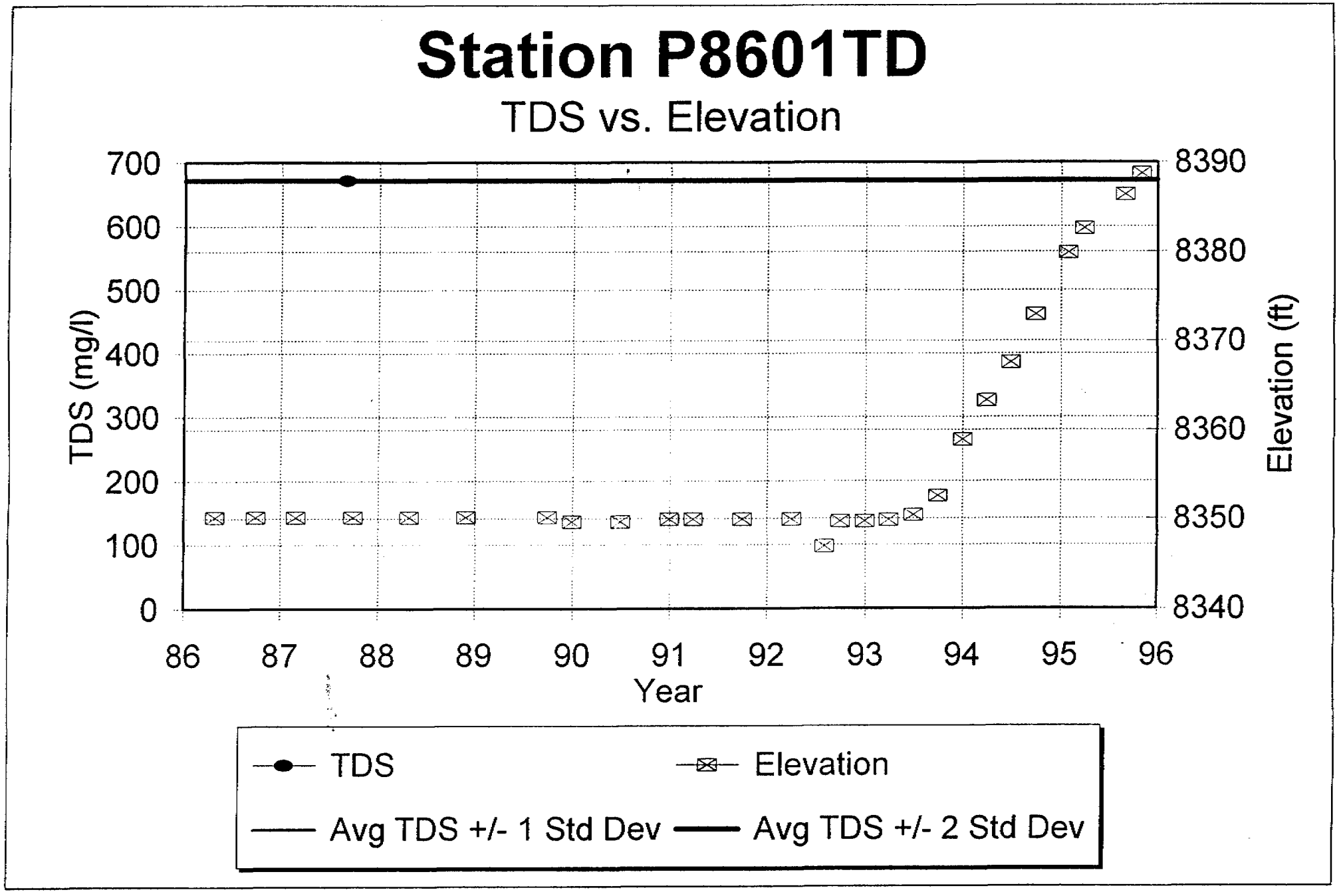
Station: P8601TD | Property: Star Point | Location: 250' N 1560' W of SE corn. Sec 7, T15S, R8E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8483

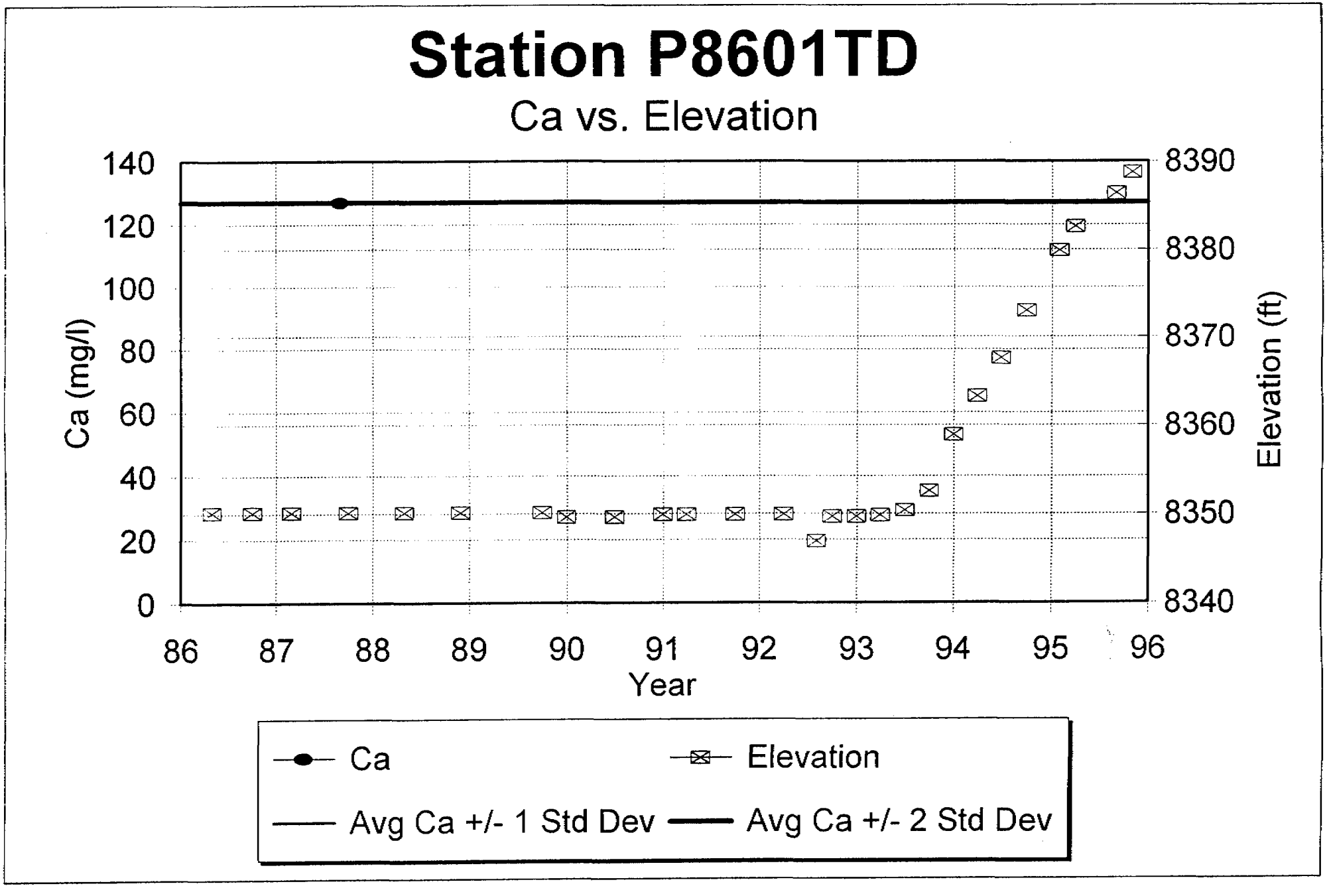
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Elev. (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92	04/15/92	8350																					
May-92																							
Jun-92	06/23/92																						
Jul-92																							
Aug-92	08/15/92	8347																					
Sep-92																							
Oct-92	10/15/92	8349.8																					
Nov-92																							
Dec-92																							
Jan-93	01/15/93	8349.7																					
Feb-93																							
Mar-93																							
Apr-93	04/15/93	8349.9																					
May-93																							
Jun-93																							
Jul-93	07/15/93	8350.5																					
Aug-93																							
Sep-93																							
Oct-93	10/15/93	8352.6																					
Nov-93																							
Dec-93																							
Jan-94		8358.9																					
Feb-94																							
Mar-94																							
Apr-94		8363.3																					
May-94																							
Jun-94																							
Jul-94		8367.6																					
Aug-94																							
Sep-94																							
Oct-94		8373																					
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95		8379.9																					
Mar-95																							
Apr-95		8382.6																					
May-95																							
Jun-95																							
Jul-95																							
Aug-95																							
Sep-95		8386.4																					
Oct-95																							
Nov-95		8388.8																					
Dec-95																							
Jan-96																							
END DATA																							
Count		27	1	1	1	1	0	0	1	1	0	1	1	1	1	1	1	0	1	1	1		
Minimum		8347	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11		
Maximum		8388.8	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11		
Average		8357.4	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11		
Standard Deviation		12.776	0	0	0	0	ERR	ERR	0	0	ERR	0	0	0	0	0	0	ERR	0	0	0		
Avg. -1 Std. Dev.		8344.7	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11		
Avg. +1 Std. Dev.		8370.2	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11		
Avg. -2 Std. Dev.		8331.9	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11		
Avg. +2 Std. Dev.		8383	7.6	2200	5	672	ERR	ERR	662	466	ERR	11	222	127	89	6	7	ERR	0.15	2.17	0.11		

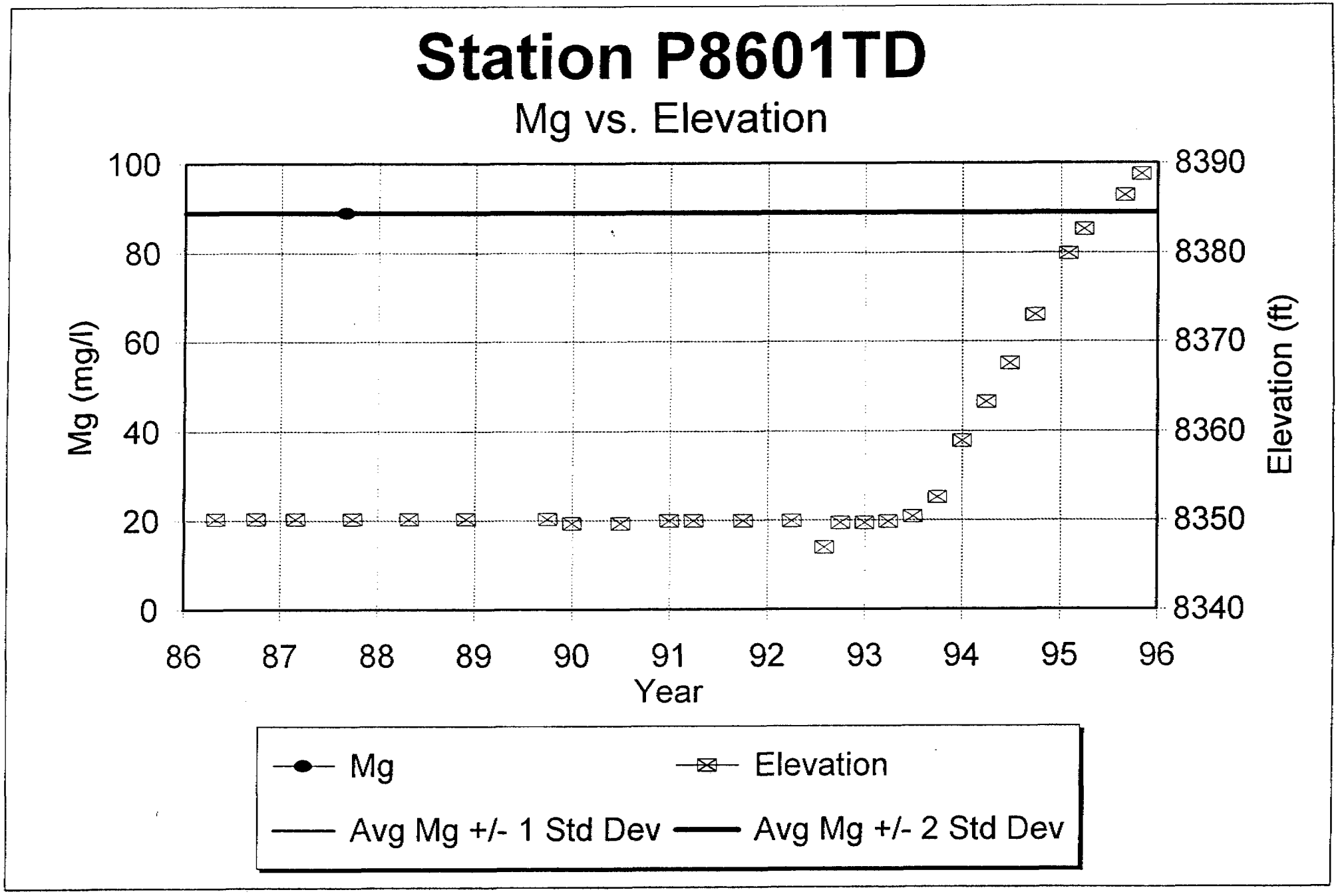
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

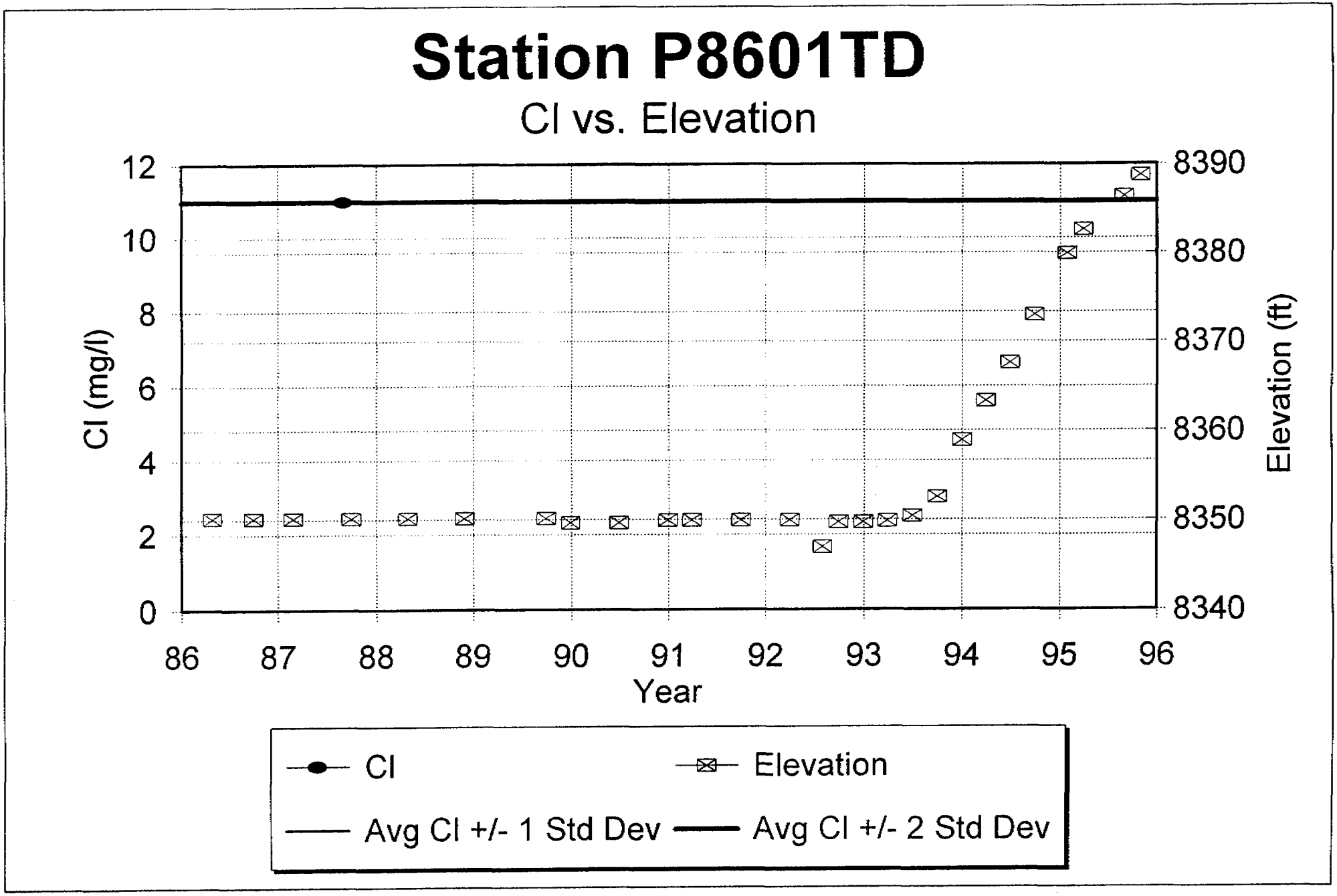

Station P8601TD
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
8400
8380
8360
8340
8320
8300
Jan-86
Oct-87
Jul-89
Apr-91
Jan-93
Oct-94
Year
Monthly Precipitation
Elevation

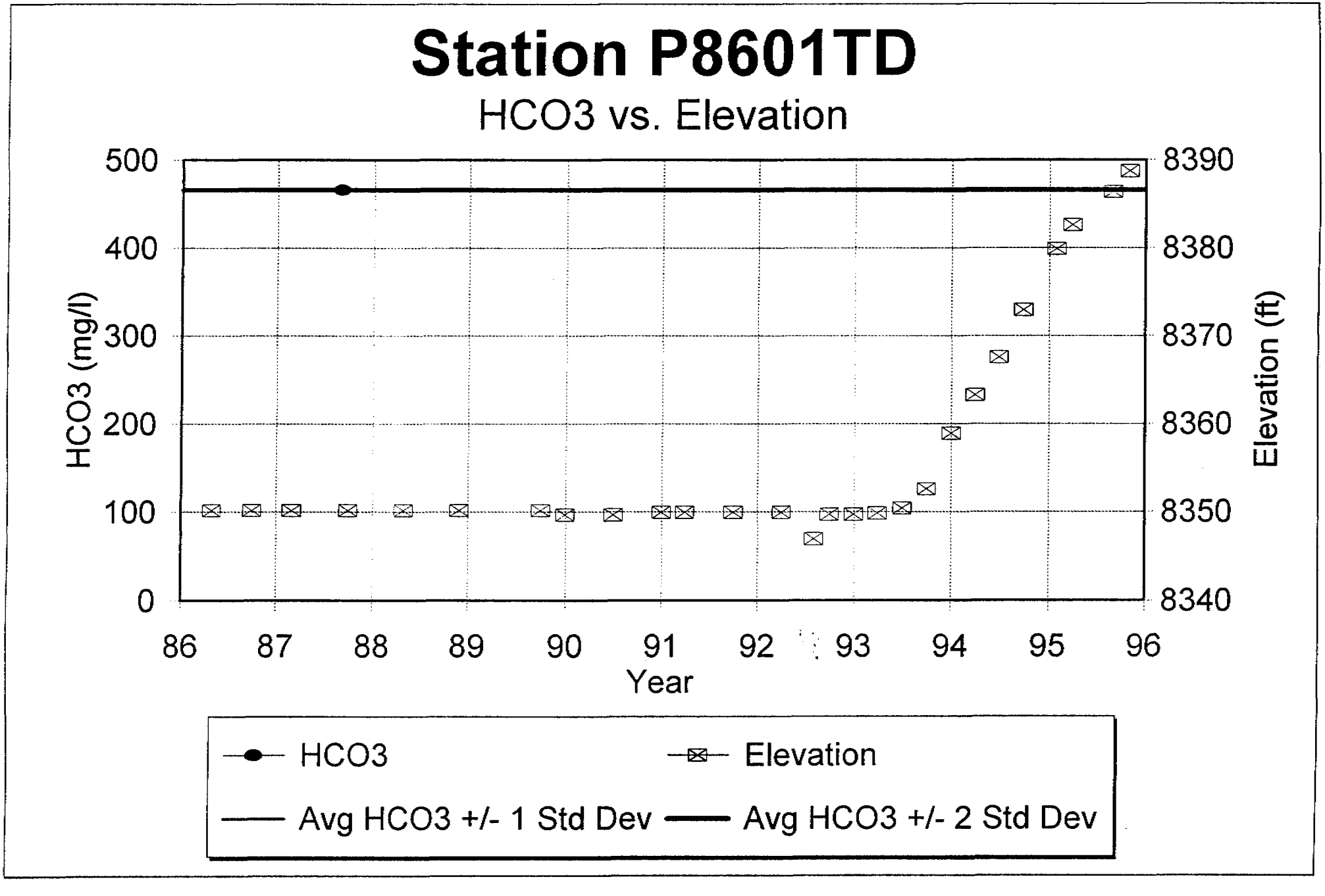

Station P8601TD
pH vs. Elevation
pH (units)
8
6
4
2
0
Elevation (ft)
8390
8380
8370
8360
8350
8340
86
87
88
89
90
91
92
93
94
95
96
Year
pH
Elevation
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

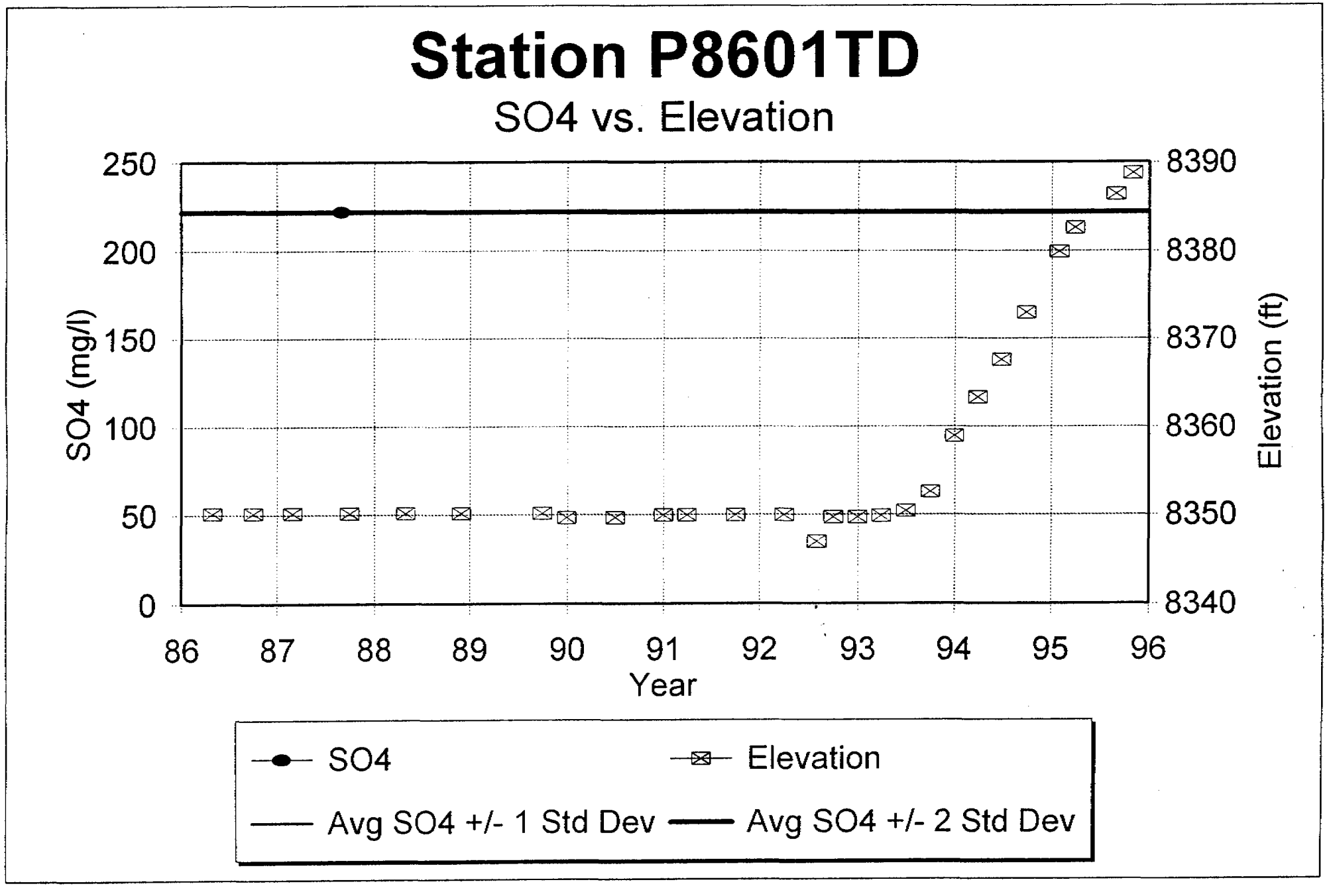

Station P8601TD
TDS vs. Elevation
TDS (mg/l)
700
600
500
400
300
200
100
0
Elevation (ft)
8390
8380
8370
8360
8350
8340
86
87
88
89
90
91
92
93
94
95
96
Year
TDS
Elevation
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station P8601TD
Ca vs. Elevation
Ca (mg/l)
140
120
100
80
60
40
20
0
Elevation (ft)
8390
8380
8370
8360
8350
8340
86
87
88
89
90
91
92
93
94
95
96
Year
Ca
Elevation
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station P8601TD
Mg vs. Elevation
Mg (mg/l)
100
80
60
40
20
0
Elevation (ft)
8390
8380
8370
8360
8350
8340
86
87
88
89
90
91
92
93
94
95
96
Year
Mg
Elevation
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station P8601TD
Cl vs. Elevation
Cl (mg/l)
12
10
8
6
4
2
0
8390
8380
8370
8360
8350
8340
Elevation (ft)
86
87
88
89
90
91
92
93
94
95
96
Year
Cl
Elevation
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station P8601TD
HCO3 vs. Elevation
500
400
300
200
100
0
HCO3 (mg/l)
8390
8380
8370
8360
8350
8340
Elevation (ft)
86
87
88
89
90
91
92
93
94
95
96
Year
HCO3
Elevation
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station P8601TD
SO4 vs. Elevation
250
200
150
100
50
0
SO4 (mg/l)
8390
8380
8370
8360
8350
8340
Elevation (ft)
86
87
88
89
90
91
92
93
94
95
96
Year
SO4
Elevation
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 25, 1996

Station: P8602HD | Property: Star Point | Location: 1000' N 1125' W of SE corn. Sec 12, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8476

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86		8413																				
Jun-86		8412																				
Jul-86																						
Aug-86		8412																				
Sep-86		8413																				
Oct-86		8412																				
Nov-86																						
Dec-86		8411.5																				
Jan-87		8412																				
Feb-87																						
Mar-87		8412																				
Apr-87		8413																				
May-87		8412																				
Jun-87																						
Jul-87																						
Aug-87		8412																				
Sep-87																						
Oct-87		8403																				
Nov-87																						
Dec-87		8403																				
Jan-88		8402																				
Feb-88																						
Mar-88		8402																				
Apr-88																						
May-88																						
Jun-88																						
Jul-88		8402																				
Aug-88																						
Sep-88																						
Oct-88		8403.5																				
Nov-88																						
Dec-88																						
Jan-89		8402.8																				
Feb-89																						
Mar-89																						
Apr-89		8402																				
May-89																						
Jun-89																						
Jul-89																						
Aug-89		8402																				
Sep-89																						
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90		8402																				
Feb-90		8402																				
Mar-90																						
Apr-90																						
May-90																						
Jun-90																						
Jul-90																						
Aug-90																						
Sep-90																						
Oct-90																						
Nov-90																						
Dec-90																						
Jan-91		8402.8																				
Feb-91																						
Mar-91																						
Apr-91		8402.5																				
May-91																						
Jun-91		8403																				
Jul-91		8403																				
Aug-91																						
Sep-91																						
Oct-91		8402.8																				
Nov-91																						
Dec-91																						

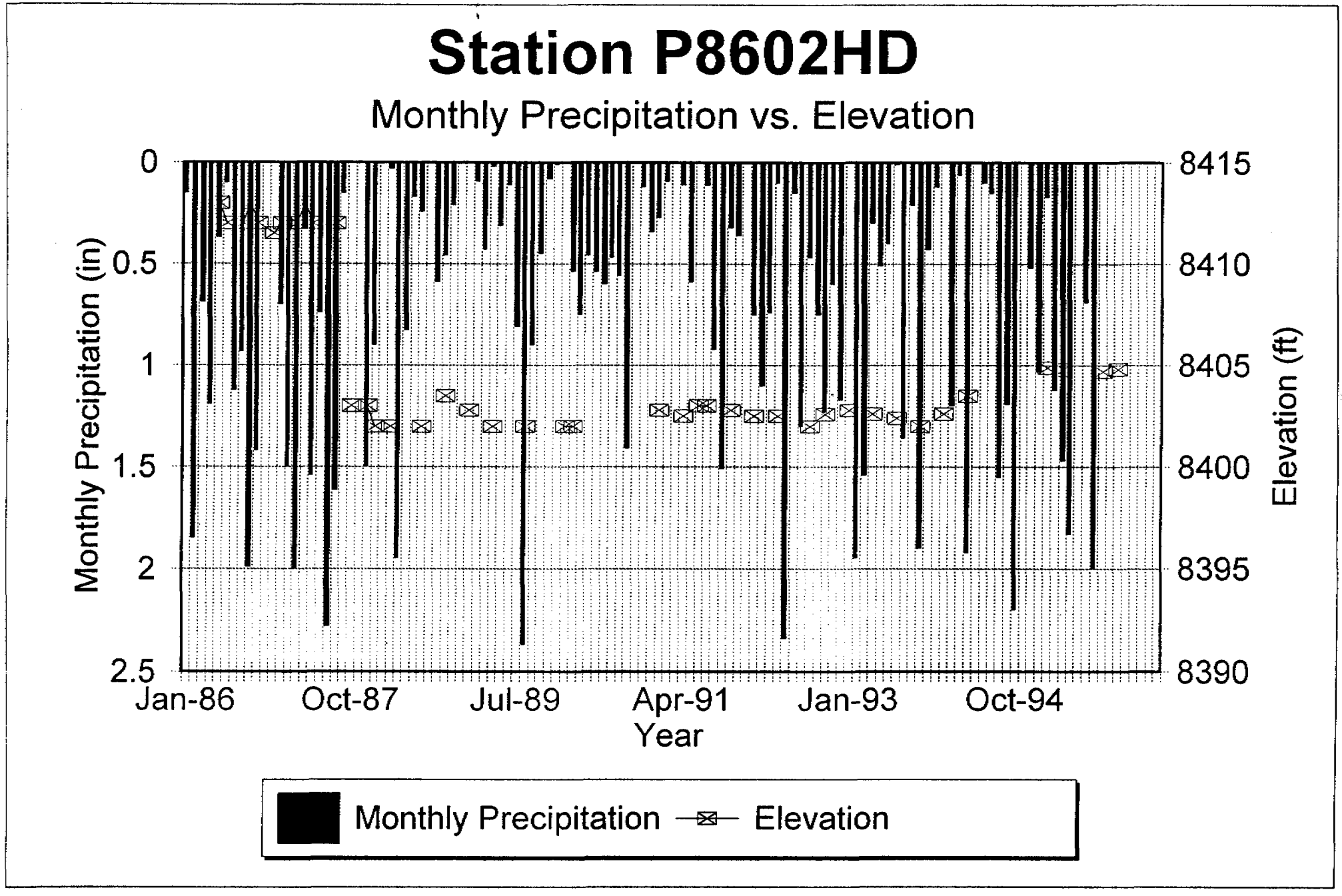
Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 25, 1996

Station: P8602HD | Property: Star Point | Location: 1000' N 1125' W of SE corn. Sec 12, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8476

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-92		8402.5																				
Feb-92																						
Mar-92																						
Apr-92		8402.5																				
May-92																						
Jun-92																						
Jul-92																						
Aug-92		8402																				
Sep-92																						
Oct-92		8402.6																				
Nov-92																						
Dec-92																						
Jan-93		8402.8																				
Feb-93																						
Mar-93																						
Apr-93		8402.6																				
May-93																						
Jun-93																						
Jul-93		8402.4																				
Aug-93																						
Sep-93																						
Oct-93		8402																				
Nov-93																						
Dec-93																						
Jan-94		8402.6																				
Feb-94																						
Mar-94																						
Apr-94		8403.5																				
May-94																						
Jun-94																						
Jul-94																						
Aug-94																						
Sep-94																						
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95		8404.9																				
Mar-95																						
Apr-95		8404.8																				
May-95																						
Jun-95																						
Jul-95																						
Aug-95																						
Sep-95		8404.7																				
Oct-95																						
Nov-95		8404.8																				
Dec-95																						
Jan-96																						
END DATA																						
Count		41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8402	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8413	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8405.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		4.2356	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8401.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8409.6	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8396.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8413.8	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.


Station P8602HD
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
8415
8410
8405
8400
8395
8390
Jan-86
Oct-87
Jul-89
Apr-91
Jan-93
Oct-94
Year
Monthly Precipitation
Elevation

Cyprus Plateau Mining Company - Water Quality Data

Station: P5603WD | Property: Star Point | Location: 2000' S 500' W of NE corn. Sec 13, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8458

Print Date: April 25, 1996

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86																						
Jun-86																						
Jul-86																						
Aug-86		8319.8																				
Sep-86																						
Oct-86		8310																				
Nov-86																						
Dec-86		8318																				
Jan-87																						
Feb-87																						
Mar-87		8318																				
Apr-87		8317																				
May-87																						
Jun-87		8316.5																				
Jul-87		8306																				
Aug-87																						
Sep-87																						
Oct-87		8314																				
Nov-87																						
Dec-87		8313.5																				
Jan-88		8312.4																				
Feb-88																						
Mar-88		8311																				
Apr-88																						
May-88																						
Jun-88																						
Jul-88																						
Aug-88																						
Sep-88																						
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89		8309																				
Feb-89																						
Mar-89																						
Apr-89		8308.5																				
May-89																						
Jun-89																						
Jul-89																						
Aug-89																						
Sep-89																						
Oct-89																						
Nov-89																						
Dec-89		8307.5																				
Jan-90																						
Feb-90		8307																				
Mar-90																						
Apr-90		8307																				
May-90																						
Jun-90		8306																				
Jul-90																						
Aug-90																						
Sep-90		8305.5																				
Oct-90																						
Nov-90																						
Dec-90		8305																				
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91		8296.5																				
May-91																						
Jun-91		8304																				
Jul-91																						
Aug-91																						
Sep-91																						
Oct-91		8305																				
Nov-91																						
Dec-91																						

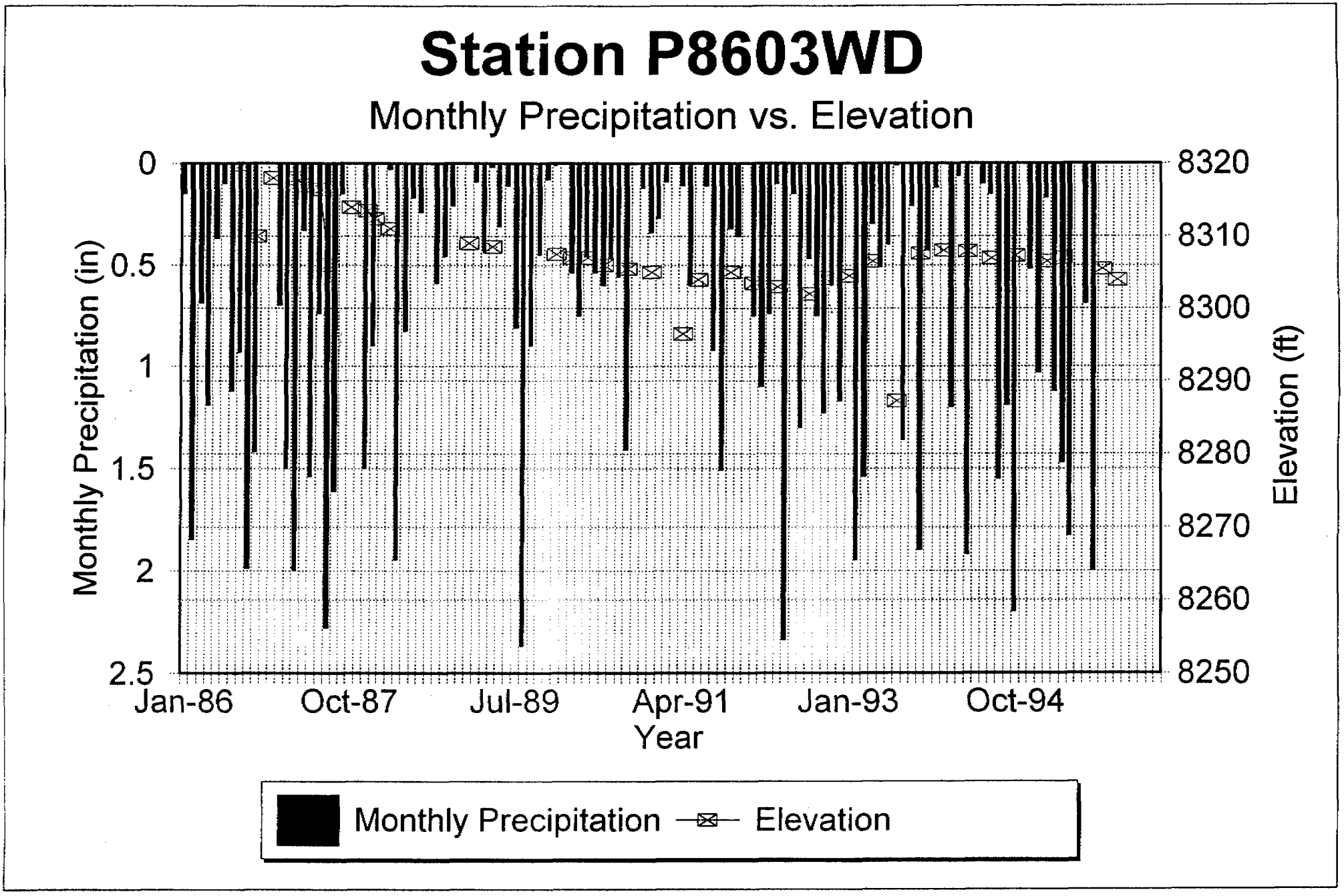
Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 25, 1996

Station: P8603WD | Property: Star Point | Location: 2000' S 500' W of NE corn. Sec 13, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8468

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92		8303.5																				
Feb-92																						
Mar-92																						
Apr-92		8303																				
May-92																						
Jun-92																						
Jul-92																						
Aug-92		8302																				
Sep-92																						
Oct-92		8304.2																				
Nov-92																						
Dec-92																						
Jan-93		8304.5																				
Feb-93																						
Mar-93																						
Apr-93		8306.5																				
May-93																						
Jun-93																						
Jul-93		8287.3																				
Aug-93																						
Sep-93																						
Oct-93		8307.6																				
Nov-93																						
Dec-93																						
Jan-94		8308																				
Feb-94																						
Mar-94																						
Apr-94		8307.9																				
May-94																						
Jun-94																						
Jul-94		8307																				
Aug-94																						
Sep-94																						
Oct-94		8307.3																				
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95		8306.5																				
Mar-95																						
Apr-95		8307																				
May-95																						
Jun-95																						
Jul-95																						
Aug-95																						
Sep-95		8305.5																				
Oct-95																						
Nov-95		8304																				
Dec-95																						
Jan-96																						
END DATA																						
Count		38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8287.3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8319.8	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8307.6	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		5.9274	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8301.7	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8313.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8295.8	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8319.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.


Station P8603WD
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
8320
8310
8300
8290
8280
8270
8260
8250
Jan-86
Oct-87
Jul-89
Apr-91
Jan-93
Oct-94
Year
Monthly Precipitation
Elevation

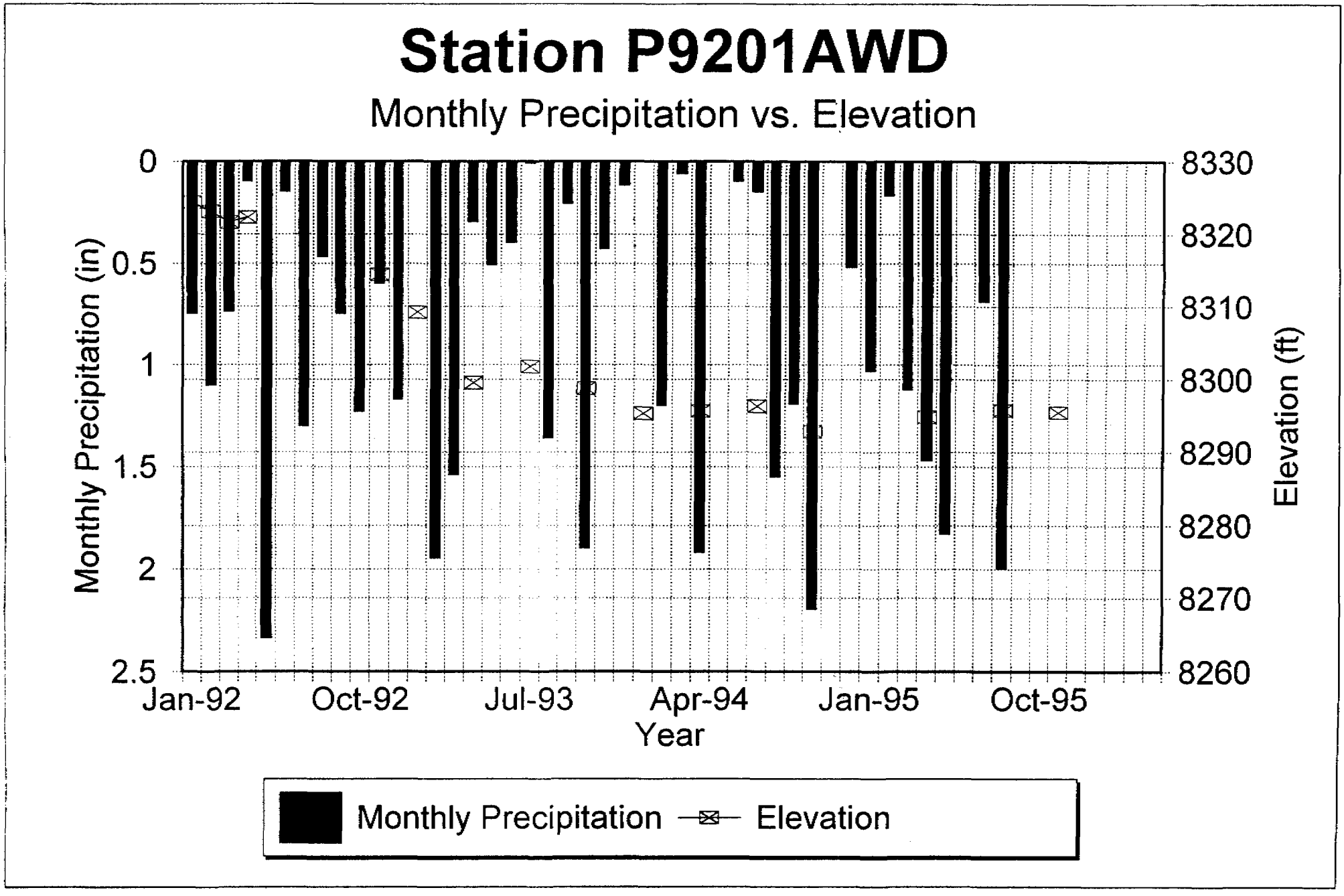
Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 8, 1996

Station: PS201AWD | Property: Star Point | Location: 1125' N 1875' W of SE corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8364

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-92		8324.3																				
Feb-92		8323.1																				
Mar-92		8321.6																				
Apr-92		8322.3																				
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92		8314.4																				
Dec-92																						
Jan-93		8309.2																				
Feb-93																						
Mar-93																						
Apr-93		8299.6																				
May-93																						
Jun-93																						
Jul-93		8301.8																				
Aug-93																						
Sep-93																						
Oct-93		8298.8																				
Nov-93																						
Dec-93																						
Jan-94		8295.4																				
Feb-94																						
Mar-94																						
Apr-94		8295.7																				
May-94																						
Jun-94																						
Jul-94		8296.4																				
Aug-94																						
Sep-94																						
Oct-94		8292.9																				
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95		8294.9																				
May-95																						
Jun-95																						
Jul-95																						
Aug-95		8295.8																				
Sep-95																						
Oct-95																						
Nov-95		8295.5																				
Dec-95																						
Jan-96																						
END DATA																						
Count		16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8292.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8324.3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8305.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		11.554	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8293.6	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8316.7	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8282	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8328.2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.


Station P9201AWD
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
8330
8320
8310
8300
8290
8280
8270
8260
Jan-92
Oct-92
Jul-93
Apr-94
Jan-95
Oct-95
Year
Monthly Precipitation
Elevation

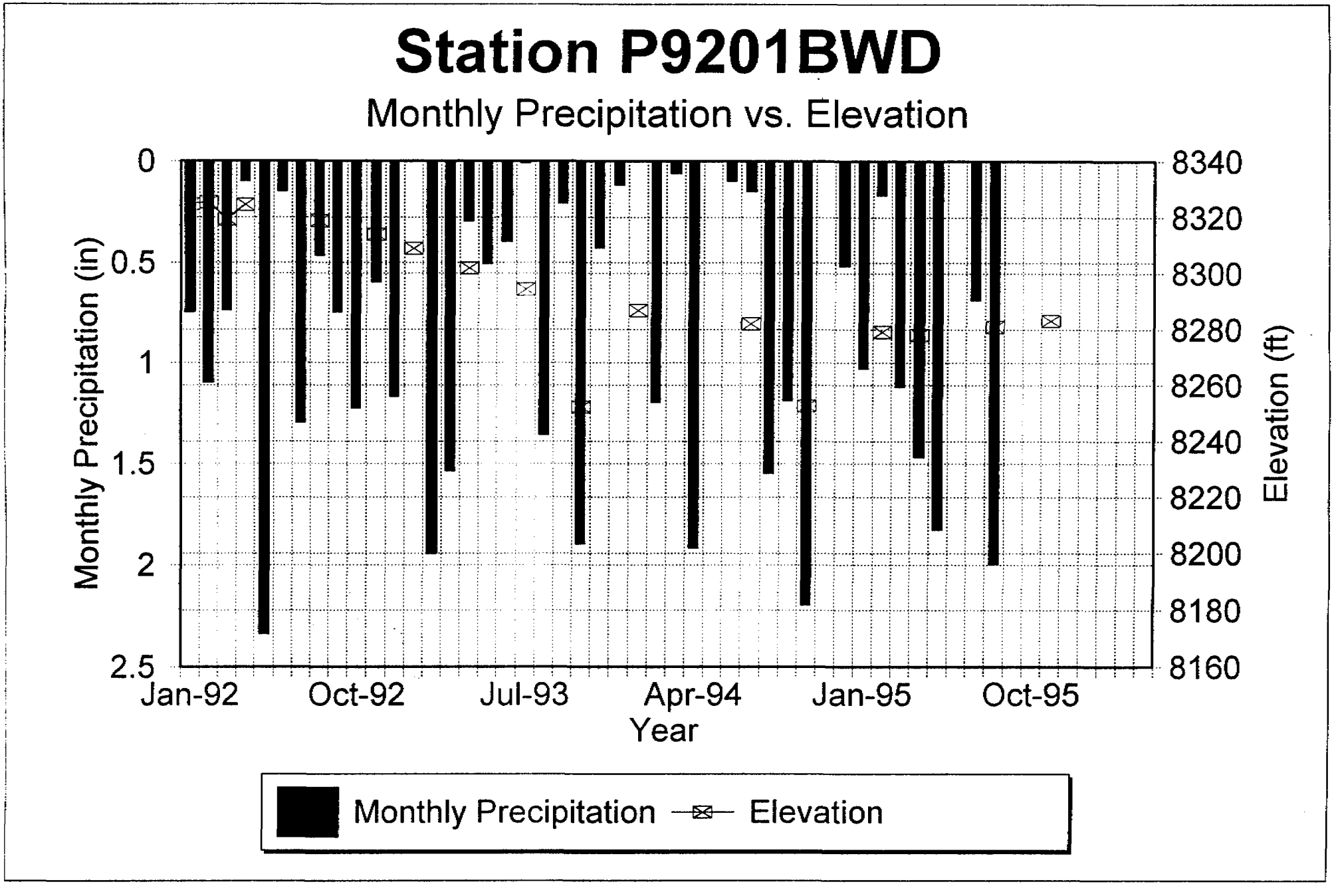
Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 8, 1996

Station: P9201BWD | Property: Star Point | Location: 1125' N 1875' W of SE corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8364

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92		8324.7																				
Feb-92		8325.4																				
Mar-92		8319.4																				
Apr-92		8324.6																				
May-92																						
Jun-92																						
Jul-92																						
Aug-92		8318.8																				
Sep-92																						
Oct-92																						
Nov-92		8313.9																				
Dec-92																						
Jan-93		8309																				
Feb-93																						
Mar-93																						
Apr-93		8301.9																				
May-93																						
Jun-93																						
Jul-93		8294.5																				
Aug-93																						
Sep-93																						
Oct-93		8252.1																				
Nov-93																						
Dec-93																						
Jan-94		8286.8																				
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94																						
Jul-94		8282																				
Aug-94																						
Sep-94																						
Oct-94		8252.5																				
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95		8279.1																				
Mar-95																						
Apr-95		8278.1																				
May-95																						
Jun-95																						
Jul-95																						
Aug-95		8281																				
Sep-95																						
Oct-95																						
Nov-95		8283.2																				
Dec-95																						
Jan-96																						
END DATA																						
Count		17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8252.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8325.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8295.7	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		23.251	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8272.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8319	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8249.2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8342.2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.


Station P9201BWD
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
8340
8320
8300
8280
8260
8240
8220
8200
8180
8160
Jan-92
Oct-92
Jul-93
Apr-94
Jan-95
Oct-95
Year
Monthly Precipitation
Elevation

Cyprus Plateau Mining Company - Water Quality Data

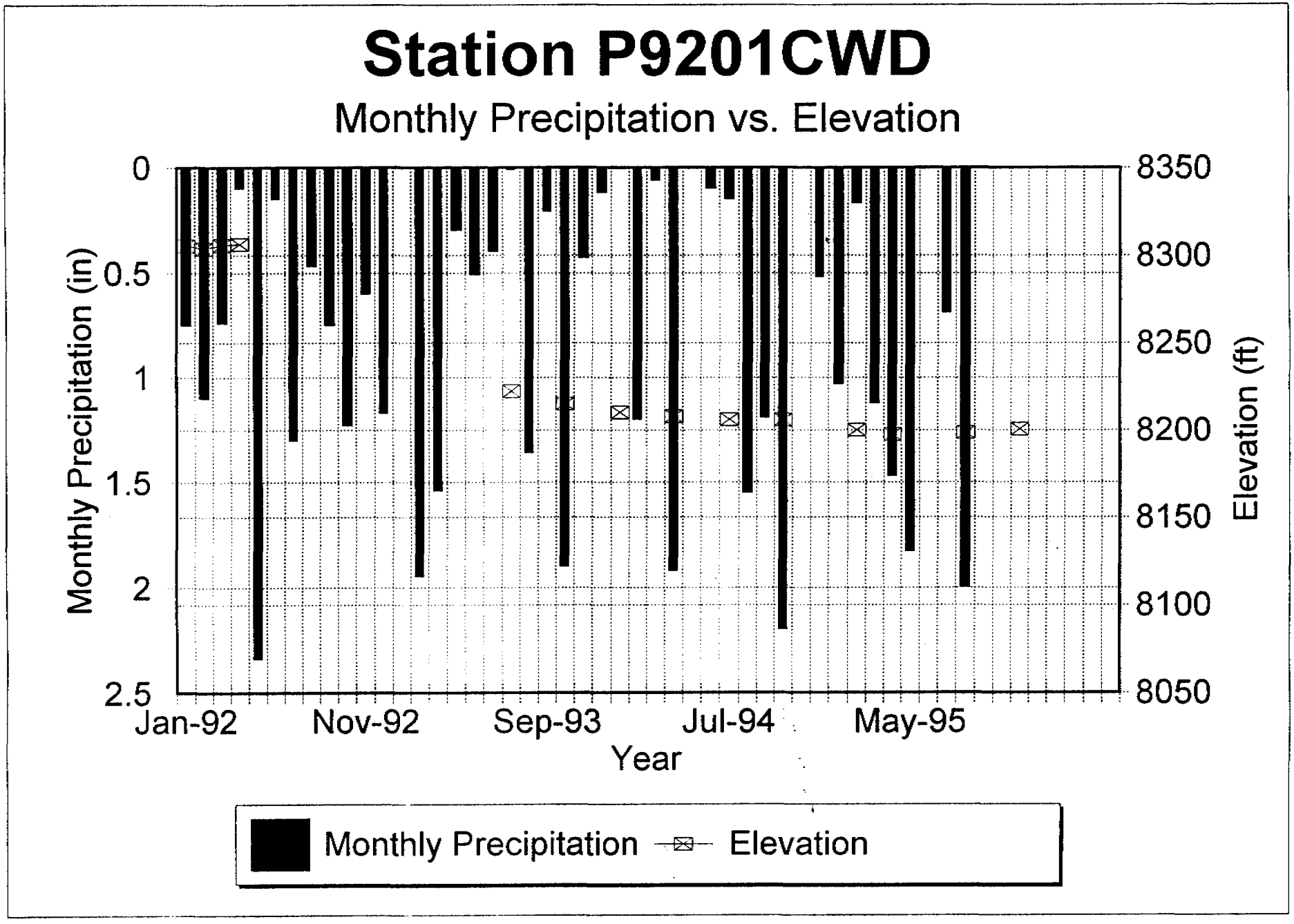
Print Date: May 8, 1996

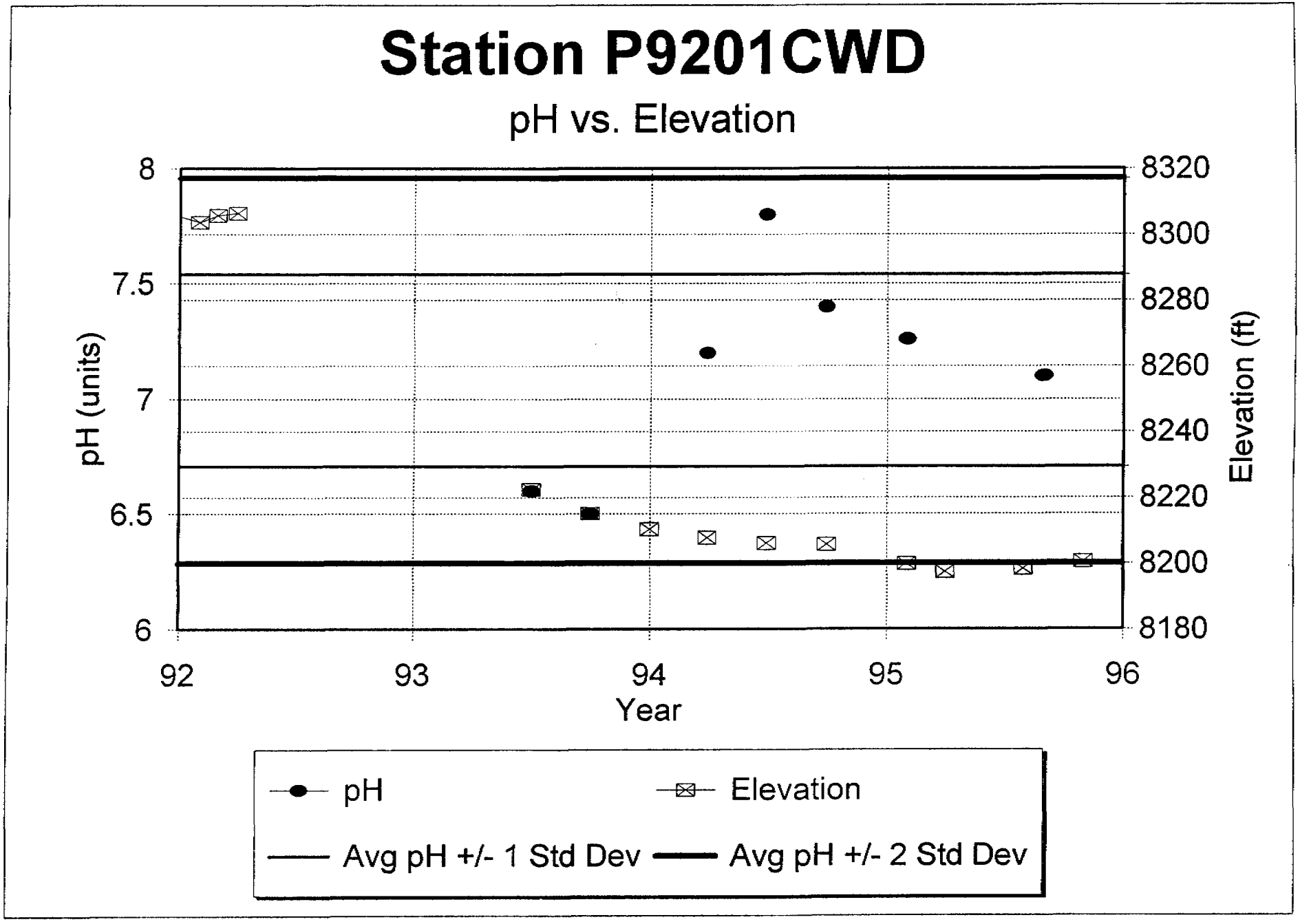
Station: P9201CWD | Property: Star Point | Location: 1125' N 1875' W of SE corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8364

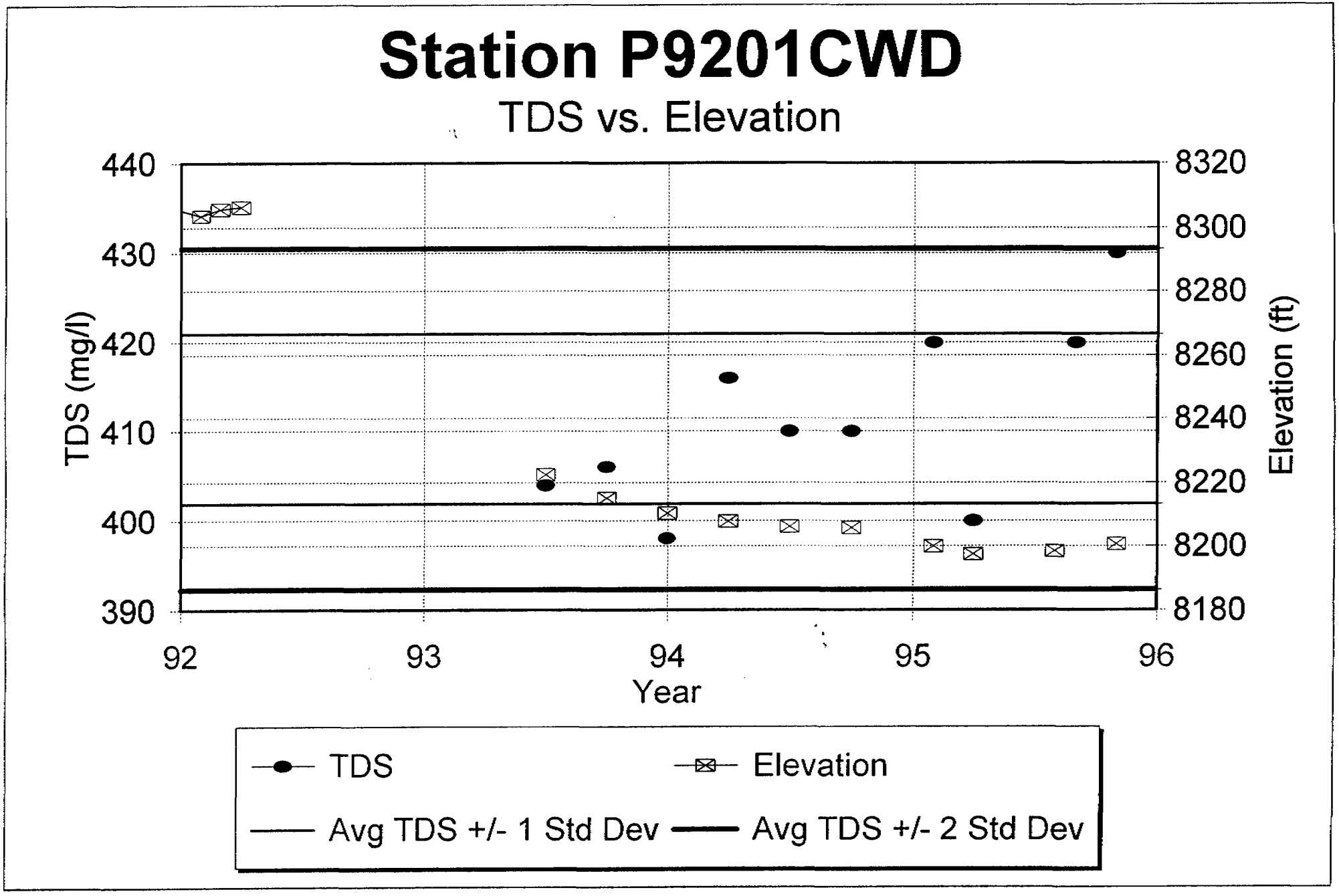
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92		8305.5																				
Feb-92		8303.6																				
Mar-92		8305.7																				
Apr-92		8306.3																				
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93	*																					
Feb-93																						
Mar-93																						
Apr-93	*																					
May-93																						
Jun-93																						
Jul-93	07/21/93	8222.5	6.6	664	12	404			372	354	0	3	88	93	36	4	3	<	0.02	1.31	0.1	
Aug-93																						
Sep-93																						
Oct-93	10/19/93	8215.2	6.5	702	12	406			356	342	0	3	80	90	32	2	3	<	0.02	1.64	0.09	
Nov-93																						
Dec-93																						
Jan-94	01/26/94	8210.3				398			432	410	0	3	82	109	39	3	4		0.04	3.86	0.15	Meter Broken, No Data
Feb-94																						
Mar-94																						
Apr-94	04/25/94	8207.9	7.2	767	10	416			367	360	0	2	73	91	34	2	3		0.14	28.7	0.33	
May-94																						
Jun-94																						
Jul-94	07/20/94	8206.2	7.8	685	10	410			331	325	0	3	91	83	30	2	3		0.15	2.2	0.12	
Aug-94																						
Sep-94																						
Oct-94	10/27/94	8205.8	7.4	768	11	410			373	338	0	3	80	93	34	2.3	3		0.16	8.4	0.18	
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95	02/27/95	8200	7.26	667	10.8	420			402	337 <	2	3	70	101	36.3	2.9	3.5	-0.2 <	0.01	3.69	0.218	
Mar-95																						
Apr-95	04/26/95	8197.5		687	55.4	400			394	328 <	2	3	80	98.8	35.8	2.4	3	-1.5 <	0.01	2.12	0.106	
May-95																						
Jun-95																						
Jul-95																						
Aug-95		8198.5																				
Sep-95	09/27/95		7.1	467	16	420			415	321 <	2	29	66	104	37.6	2.5	2.9	-0.8	0.03	10.3	0.27	
Oct-95																						
Nov-95	11/28/95	8200.6				430			395	326 <	2	4	80	97.8	36.7	2.5	2.9	-1.3	0.1	10.2	0.14	
Dec-95																						
Jan-96																						
END DATA																						
Count		14	7	8	8	10	0	0	10	10	10	10	10	10	10	10	10	4	10	10	10	
Minimum		8197.5	6.5	467	10	398	ERR	ERR	331	321 <	0	2	66	83	30	2	2.9	-1.5 <	0.01	1.31	0.09	
Maximum		8306.3	7.8	768	55.4	430	ERR	ERR	432	410 <	2	29	91	109	39	4	4	-0.2 <	0.16	28.7	0.33	
Average		8234.7	7.1229	675.88	17.15	411.4	ERR	ERR	383.7	344.1 <	0.8	5.6	79	96.06	35.14	2.56	3.13	-0.95 <	0.068	7.242	0.1704	
Standard Deviation		45.106	0.4178	87.699	14.568	9.552	ERR	ERR	28.207	25.042 <	0.9798	7.8128	7.2388	7.1906	2.5453	0.5851	0.3318	0.5025 <	0.0591	7.8878	0.0756	
Avg. -1 Std. Dev.		8189.6	6.705	588.18	2.582	401.85	ERR	ERR	355.49	319.06 <	-0.18	-2.213	71.761	88.869	32.595	1.9749	2.7982	-1.452 <	0.0089	-0.646	0.0948	
Avg. +1 Std. Dev.		8279.8	7.5407	763.57	31.718	420.95	ERR	ERR	411.91	369.14 <	1.7798	13.413	86.239	103.25	37.685	3.1451	3.4618	-0.448 <	0.1271	15.13	0.246	
Avg. -2 Std. Dev.		8144.5	6.2872	500.48	-11.99	392.3	ERR	ERR	327.29	294.02 <	-1.16	-10.03	64.522	81.679	30.049	1.3897	2.4664	-1.955 <	-0.05	-8.534	0.0191	
Avg. +2 Std. Dev.		8324.9	7.9585	851.27	46.286	430.5	ERR	ERR	440.11	394.18 <	2.7596	21.226	93.478	110.44	40.231	3.7303	3.7936	0.055 <	0.1863	23.018	0.3217	

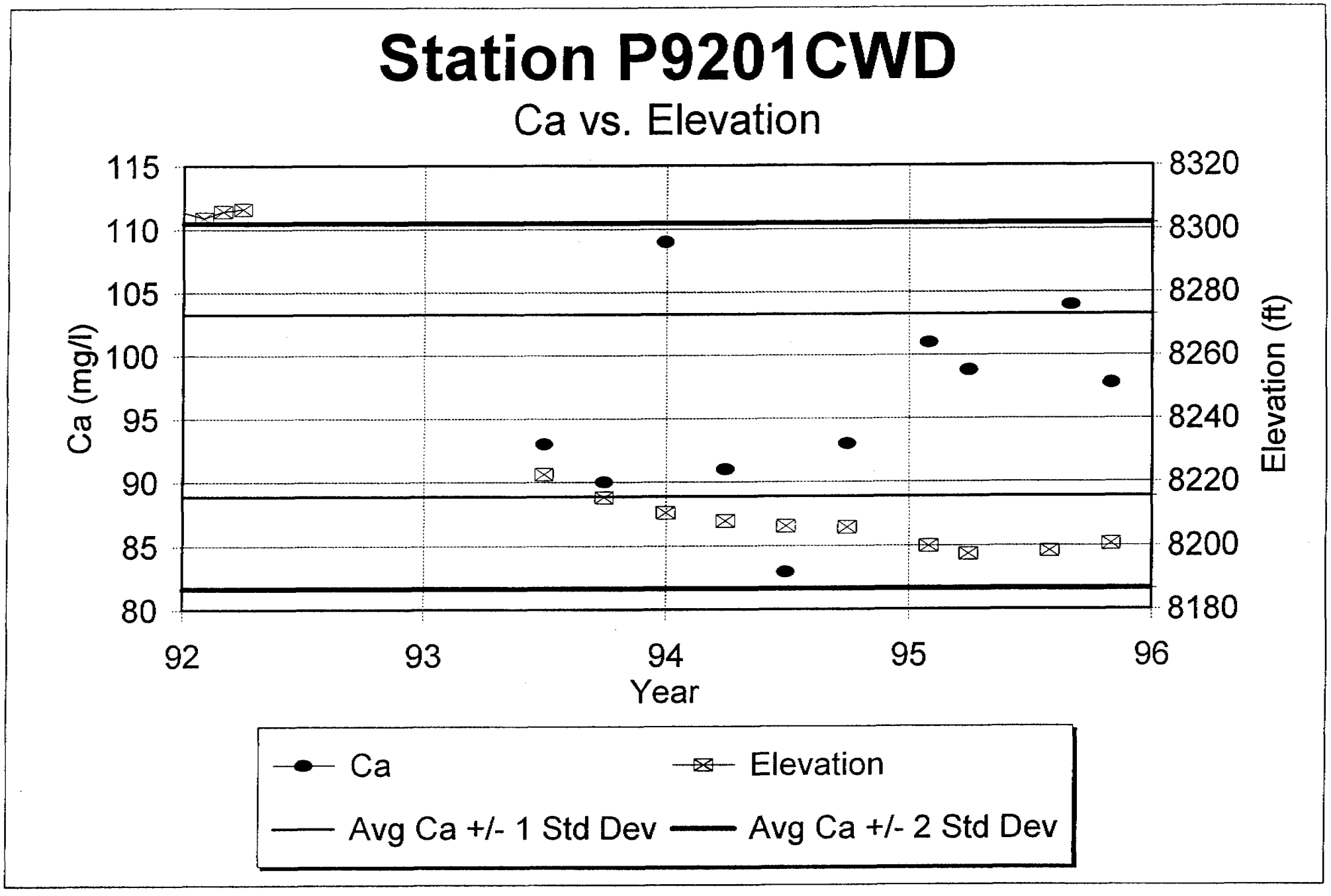
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

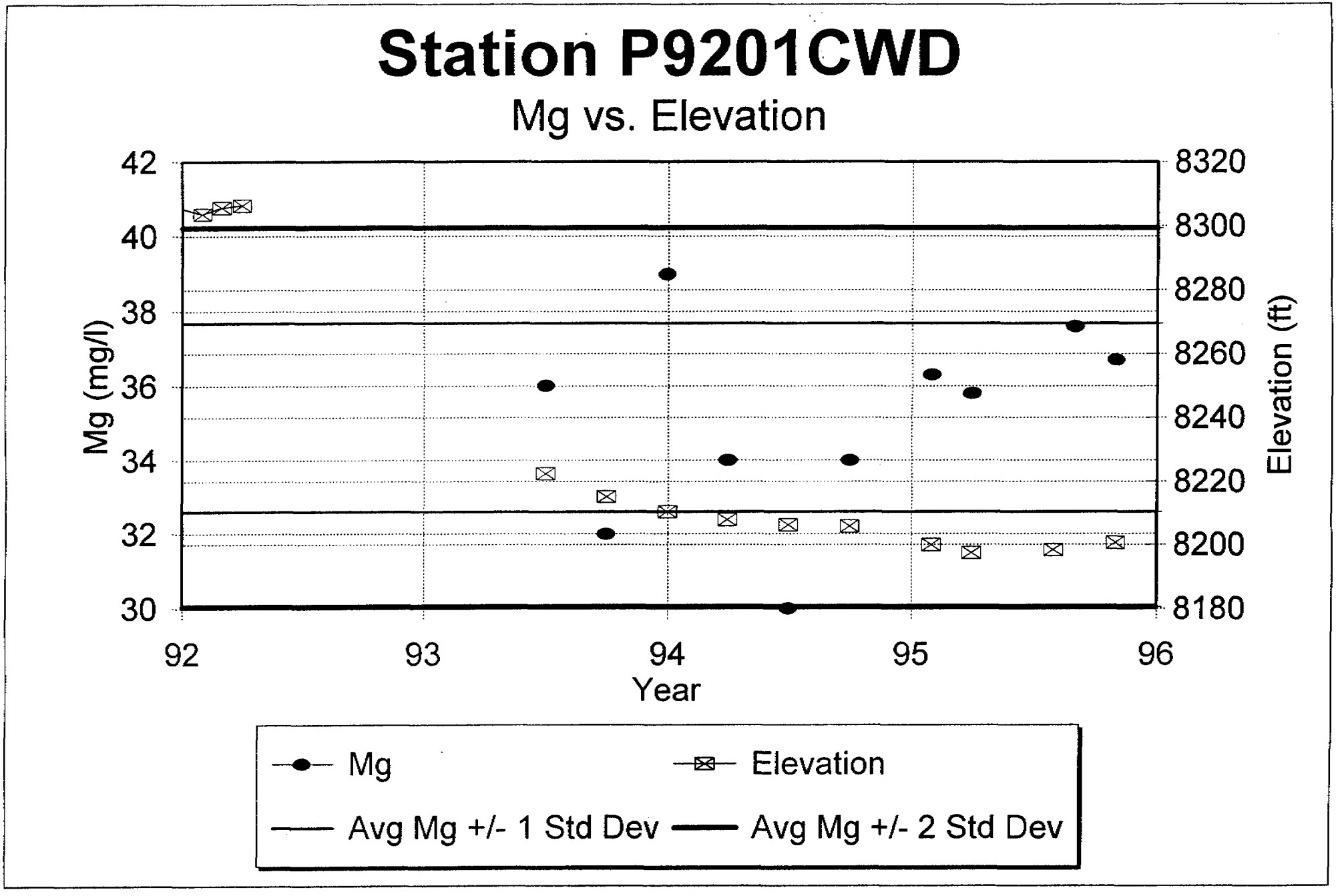
* Measurements taken for this month are extremely anomalous and judged to be in error and were not included in this table. See previous reports for actual data.

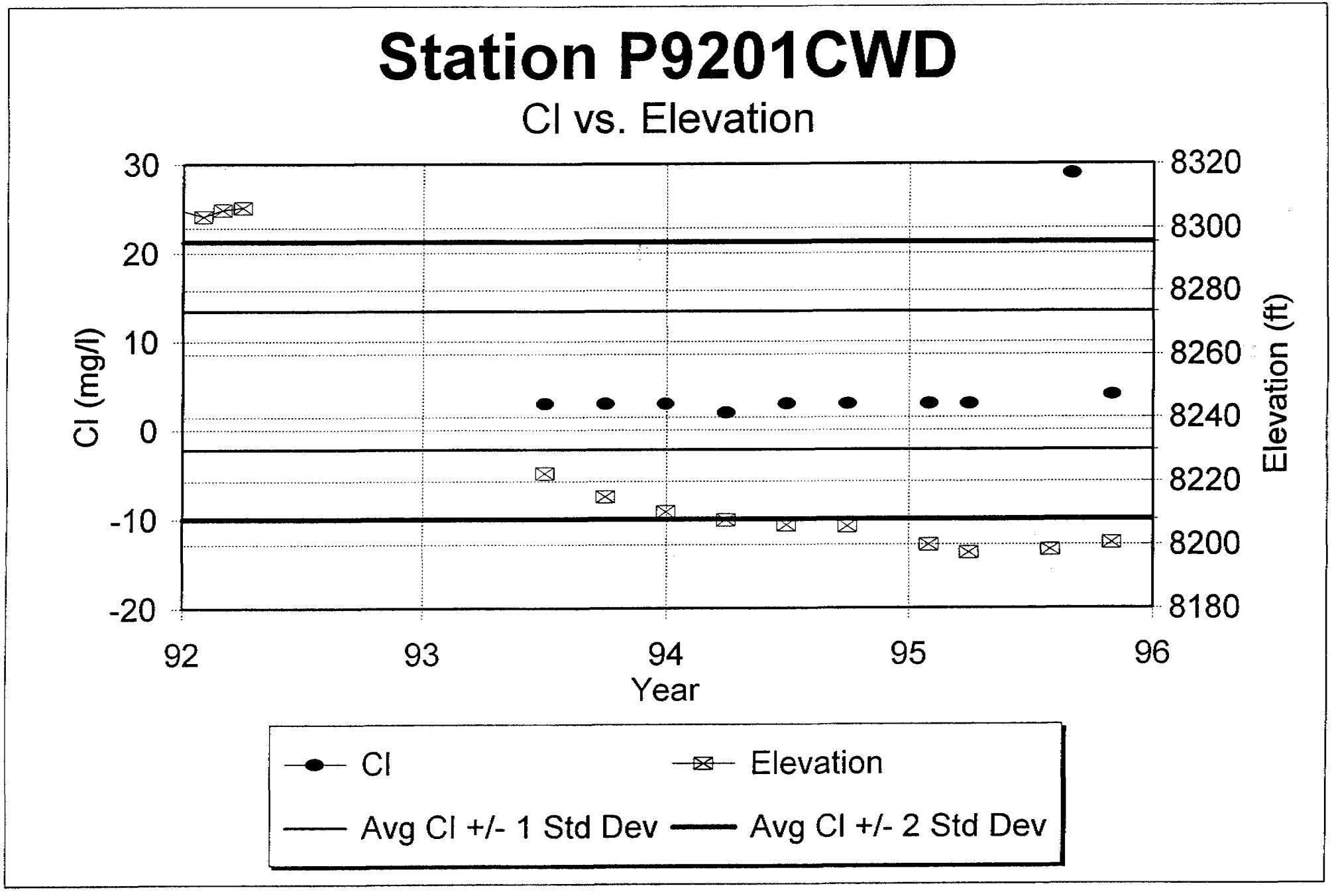

Station P9201CWD
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
8350
8300
8250
8200
8150
8100
8050
Jan-92
Nov-92
Sep-93
Jul-94
May-95
Year
Monthly Precipitation
Elevation

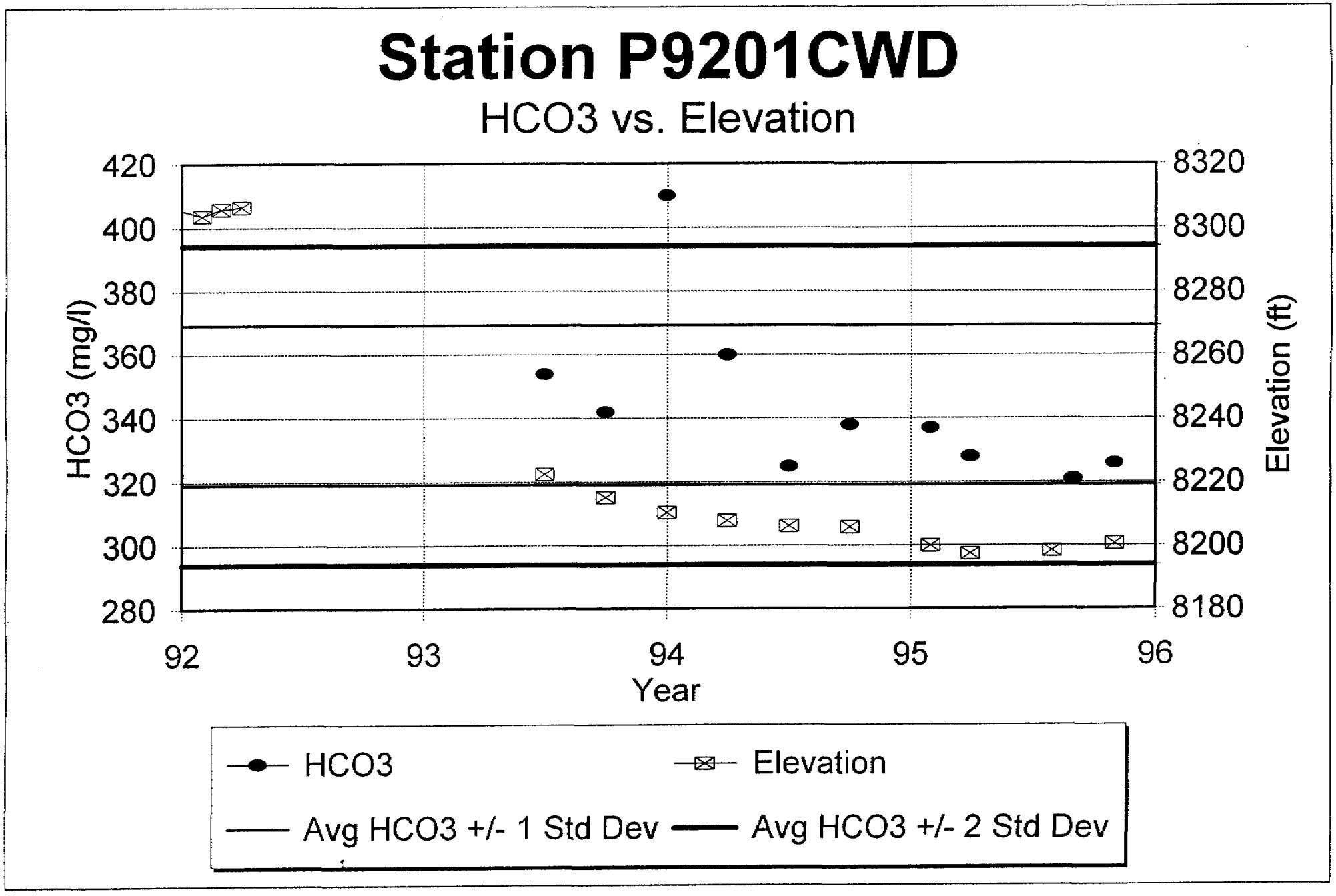

Station P9201CWD
pH vs. Elevation
8
7.5
7
6.5
6
pH (units)
8320
8300
8280
8260
8240
8220
8200
8180
Elevation (ft)
92
93
94
95
96
Year
pH
Elevation
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

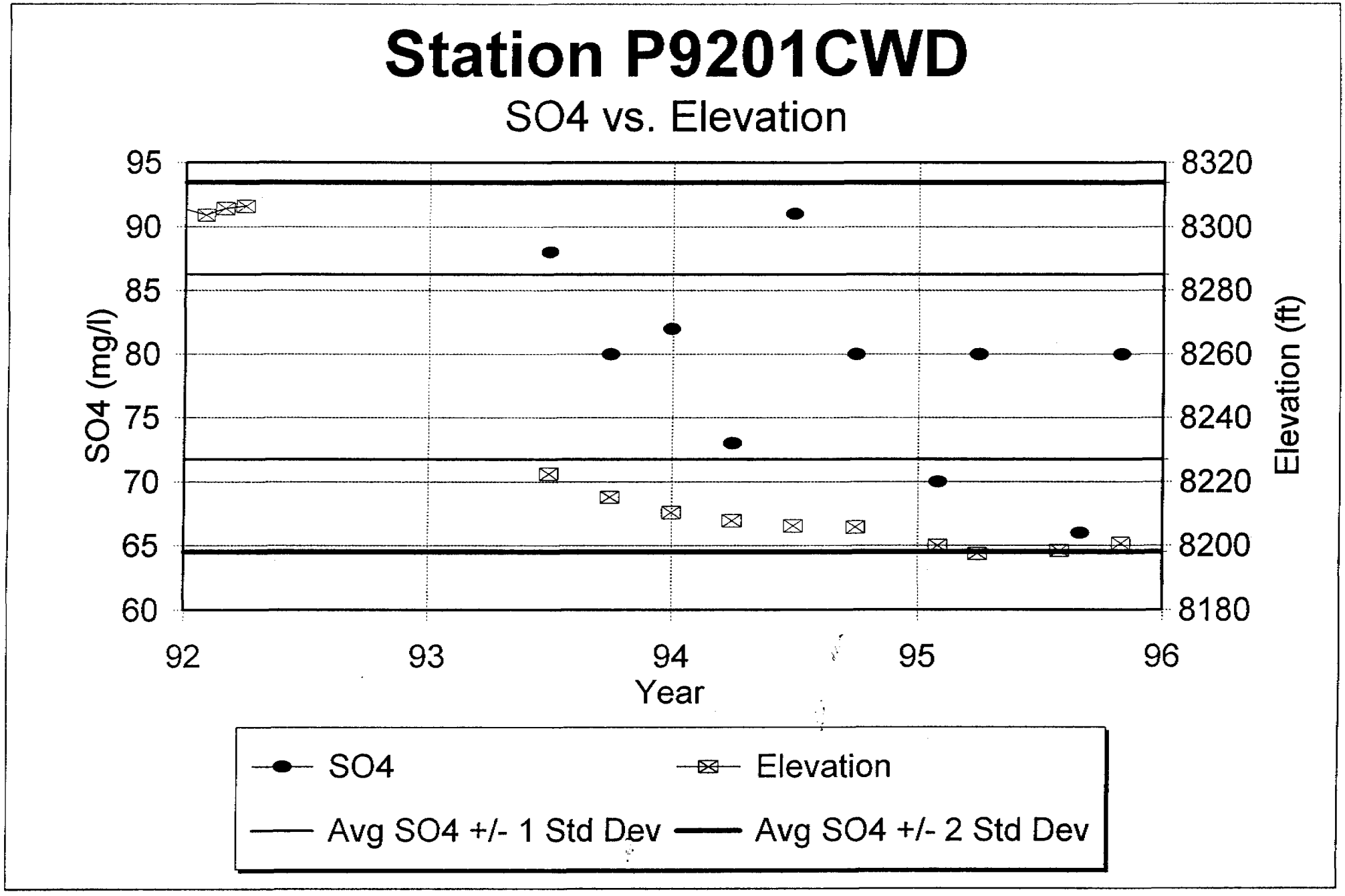

Station P9201CWD
TDS vs. Elevation
440
430
420
410
400
390
TDS (mg/l)
8320
8300
8280
8260
8240
8220
8200
8180
Elevation (ft)
92
93
94
95
96
Year
TDS
Elevation
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station P9201CWD
Ca vs. Elevation
115
110
105
100
95
90
85
80
Ca (mg/l)
8320
8300
8280
8260
8240
8220
8200
8180
Elevation (ft)
92
93
94
95
96
Year
Ca
Elevation
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station P9201CWD
Mg vs. Elevation
42
40
38
36
34
32
30
Mg (mg/l)
8320
8300
8280
8260
8240
8220
8200
8180
Elevation (ft)
92
93
94
95
96
Year
Mg
Elevation
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station P9201CWD
Cl vs. Elevation
30
20
10
0
-10
-20
Cl (mg/l)
8320
8300
8280
8260
8240
8220
8200
8180
Elevation (ft)
92
93
94
95
96
Year
Cl
Elevation
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station P9201CWD
HCO3 vs. Elevation
HCO3 (mg/l)
420
400
380
360
340
320
300
280
Elevation (ft)
8320
8300
8280
8260
8240
8220
8200
8180
92
93
94
95
96
Year
HCO3
Elevation
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station P9201CWD
SO4 vs. Elevation
95
90
85
80
75
70
65
60
SO4 (mg/l)
8320
8300
8280
8260
8240
8220
8200
8180
Elevation (ft)
92
93
94
95
96
Year
SO4
Elevation
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

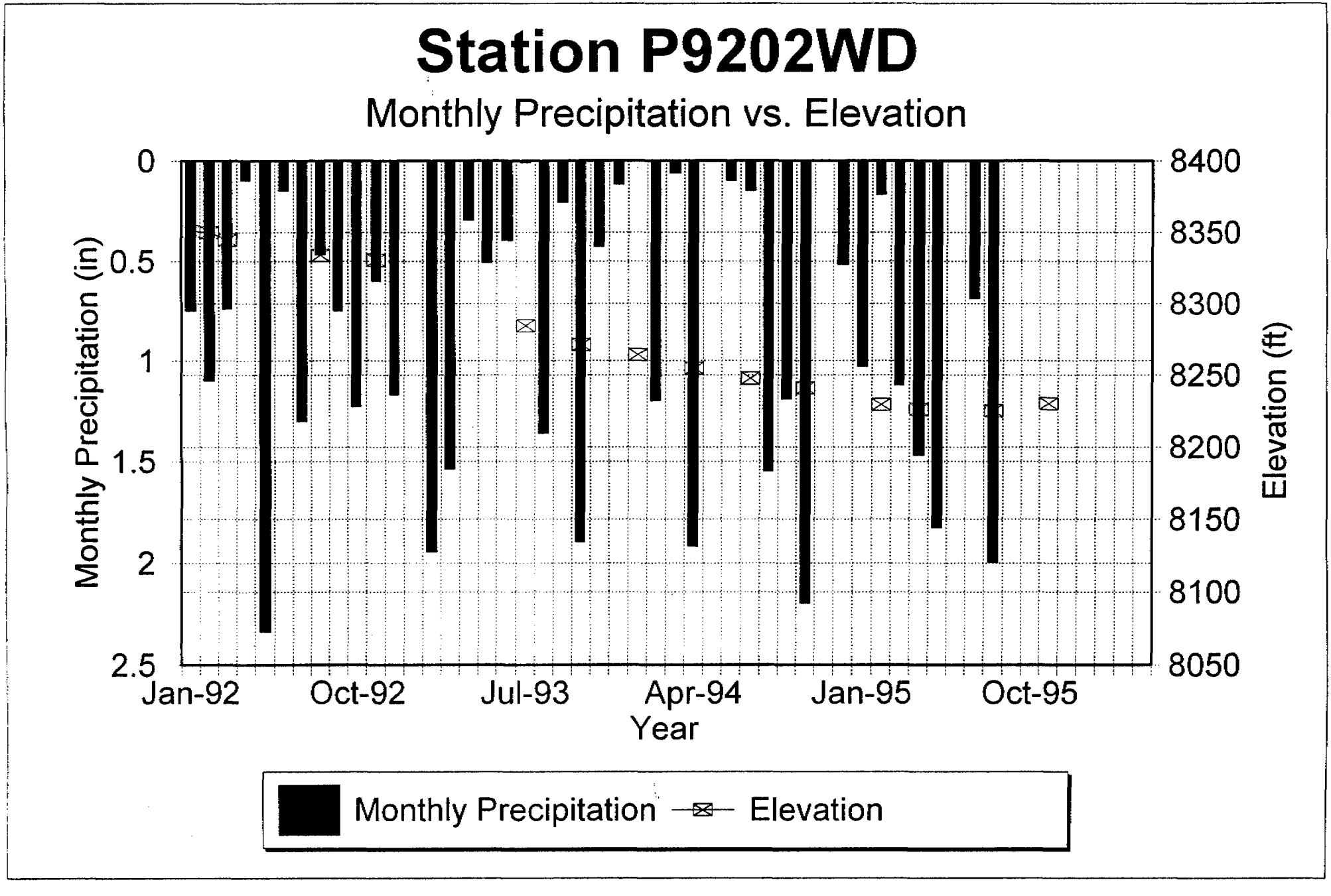
Print Date: May 6, 1996

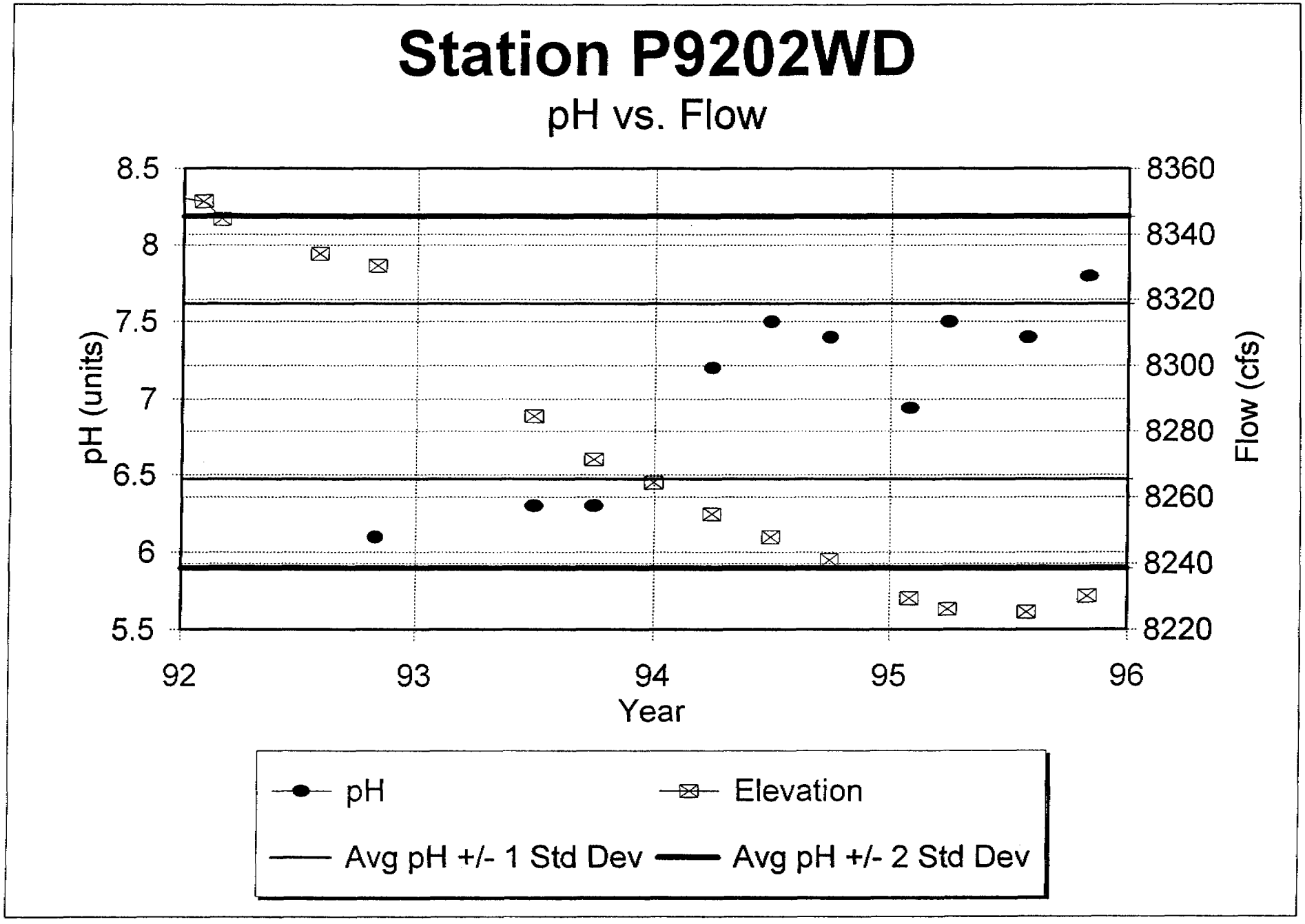
Station: P9202WD | Property: Star Point | Location: 2250' N 500' E of SW corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8362

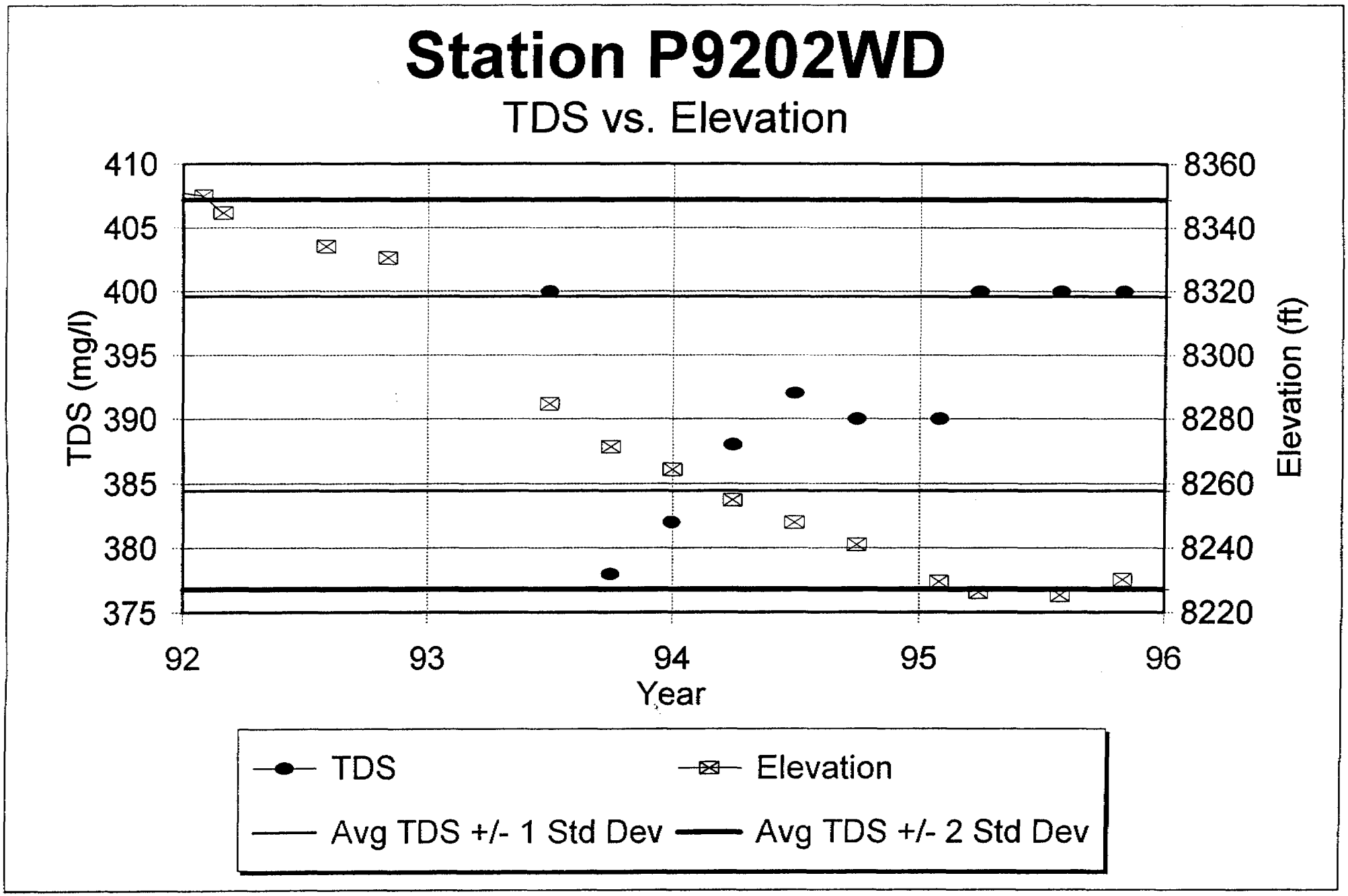
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92		8350.9																				
Feb-92		8350																				
Mar-92		8344.7																				
Apr-92																						
May-92																						
Jun-92																						
Jul-92																						
Aug-92		8334.1																				
Sep-92																						
Oct-92																						
Nov-92	11/03/92	8330.5	6.1	719	11.9				326	266	8	4	84	78	32	4	14		0	0	0.0001	
Dec-92																						
Jan-93	*																					
Feb-93																						
Mar-93																						
Apr-93	*																					
May-93																						
Jun-93																						
Jul-93	07/21/93	8284.7	6.3	623	11.9	400			403	393	0	6	74	99	38	3	3	<	0.02	2.03	0.1	
Aug-93																						
Sep-93																						
Oct-93	10/19/93	8271.4	6.3	656	11.9	378			339	390	0	2	60	83	32	4	3	<	0.02	0.29	0.04	
Nov-93																						
Dec-93																						
Jan-94	01/26/94	8264.4				382			422	410	0	3	58	103	40	4	3		0.08	1.46	0.09	Meter Broken, No Data
Feb-94																						
Mar-94																						
Apr-94	04/25/94	8254.9	7.2	749	10	388			362	420	0	4	58	89	34	3	3		0.06	1.07	0.03	
May-94																						
Jun-94																						
Jul-94	07/20/94	8248	7.5	647	10	392			359	378	7	3	49	88	34	3	2		0.41	5.76	0.1	Sample Turbid after 3 col
Aug-94																						
Sep-94																						
Oct-94	10/27/94	8241.1	7.4	620	9	390			386	324	0	3	50	95	36	4	3		0.12	0.53	0.02	
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95	02/27/95	8229.6	6.94	726	12	390			342	320 <	2	4	60	84.1	32.1	2.8	2.6	-5	0.05	0.54	0.082	
Mar-95																						
Apr-95	04/26/95	8226.2	7.5	637	12	400			383	331 <	2	4	60	94.1	35.9	3.2	3.1	-0.8	0.02	2.79	0.08	
May-95																						
Jun-95																						
Jul-95																						
Aug-95	08/24/95	8225.4	7.4	675	12	400			352	317 <	2	3	50	83	35.2	3	2.9	-1.6 <	0.01	0.42	0.068	
Sep-95																						
Oct-95																						
Nov-95	11/28/95	8230.3	7.8	685		400			363	324 <	2	5	60	87.6	35.1	4	2.9	-2.5	0.03	0.48	0.019	
Dec-95																						
Jan-96																						
END DATA																						
Count		15	10	10	9	10	0	0	11	11	11	11	11	11	11	11	11	4	11	11	11	
Minimum		8225.4	6.1	620	9	378	ERR	ERR	326	266 <	0	2	49	78	32	2.8	2	-5 <	0	0	0.0001	
Maximum		8350.9	7.8	749	12	400	ERR	ERR	422	420 <	8	6	84	103	40	4	14	-0.8 <	0.41	5.76	0.1	
Average		8279.1	7.044	673.7	11.189	392	ERR	ERR	367	352.09 <	2.0909	3.7273	60.273	89.436	34.936	3.4545	3.8636	-2.475 <	0.0745	1.3973	0.0572	
Standard Deviation		47.578	0.5722	42.912	1.111	7.5895	ERR	ERR	27.565	46.165 <	2.7121	1.0523	10.001	7.2356	2.4163	0.5052	3.2191	1.577 <	0.1112	1.5939	0.0345	
Avg. -1 Std. Dev.		8231.5	6.4718	630.79	10.078	384.41	ERR	ERR	339.44	305.93 <	-0.621	2.6749	50.272	82.201	32.52	2.9494	0.6446	-4.052 <	-0.037	-0.197	0.0226	
Avg. +1 Std. Dev.		8326.7	7.6162	716.61	12.3	399.59	ERR	ERR	394.56	398.26 <	4.803	4.7796	70.274	96.672	37.353	3.9597	7.0827	-0.898 <	0.1858	2.9912	0.0917	
Avg. -2 Std. Dev.		8183.9	5.8996	587.88	8.9669	376.82	ERR	ERR	311.87	259.76 <	-3.333	1.6226	40.271	74.965	30.104	2.4442	-2.574	-5.629 <	-0.148	-1.791	-0.012	
Avg. +2 Std. Dev.		8374.3	8.1884	759.52	13.411	407.18	ERR	ERR	422.13	444.42 <	7.5151	5.832	80.274	103.91	39.769	4.4649	10.302	0.679 <	0.297	4.5851	0.1263	

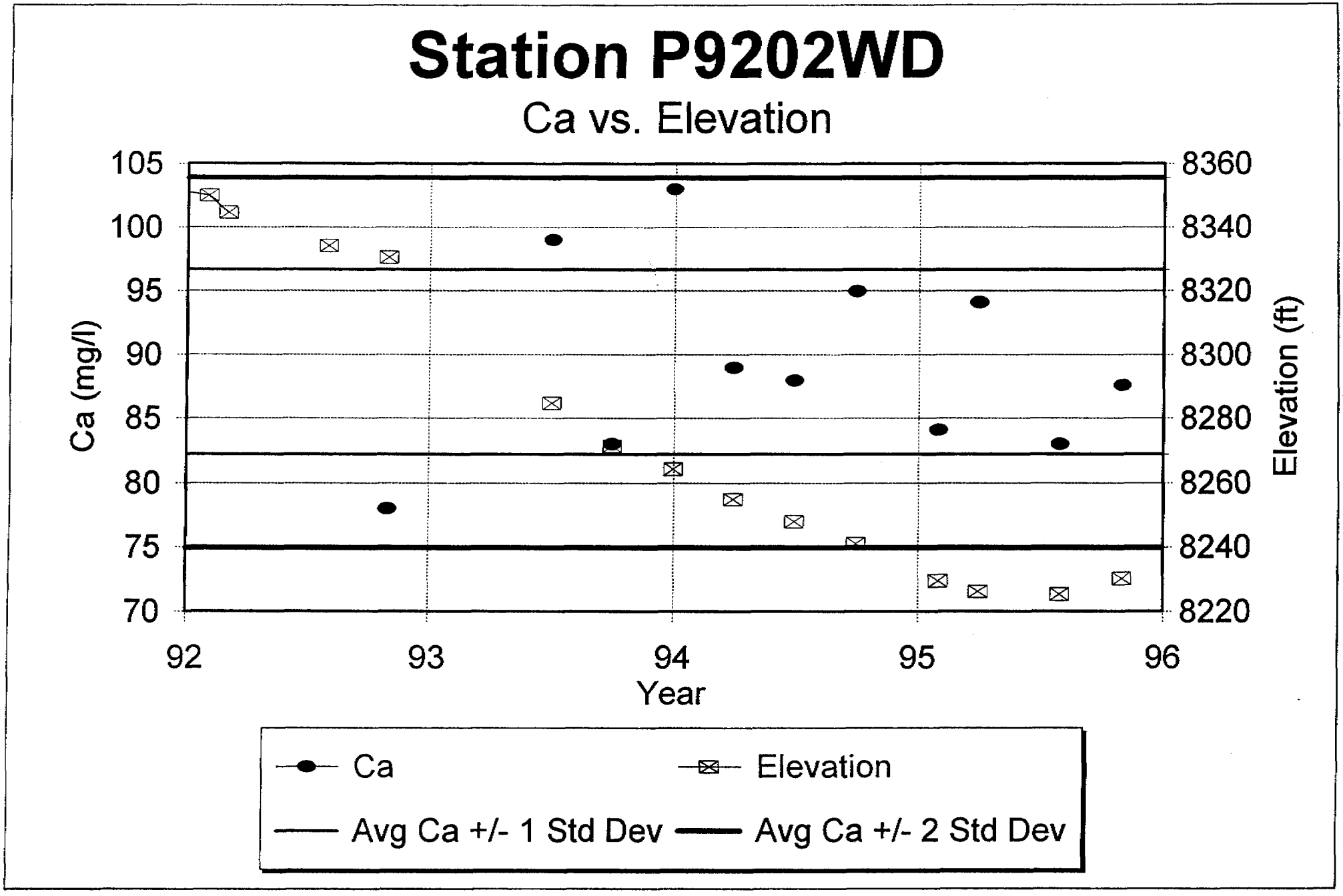
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

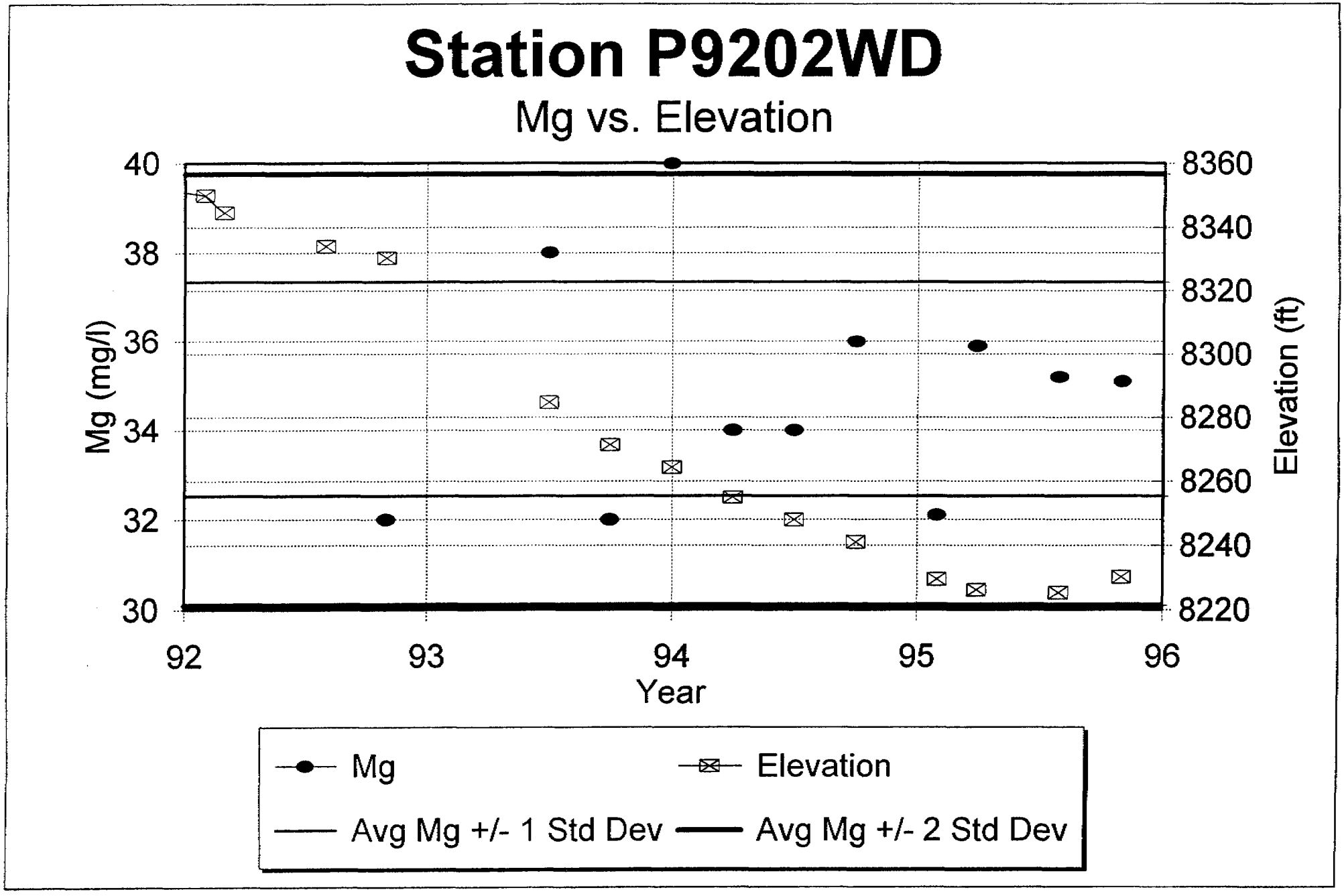
* Measurements taken for this month are extremely anomalous and judged to be in error and were not included in this table. See previous reports for actual data.

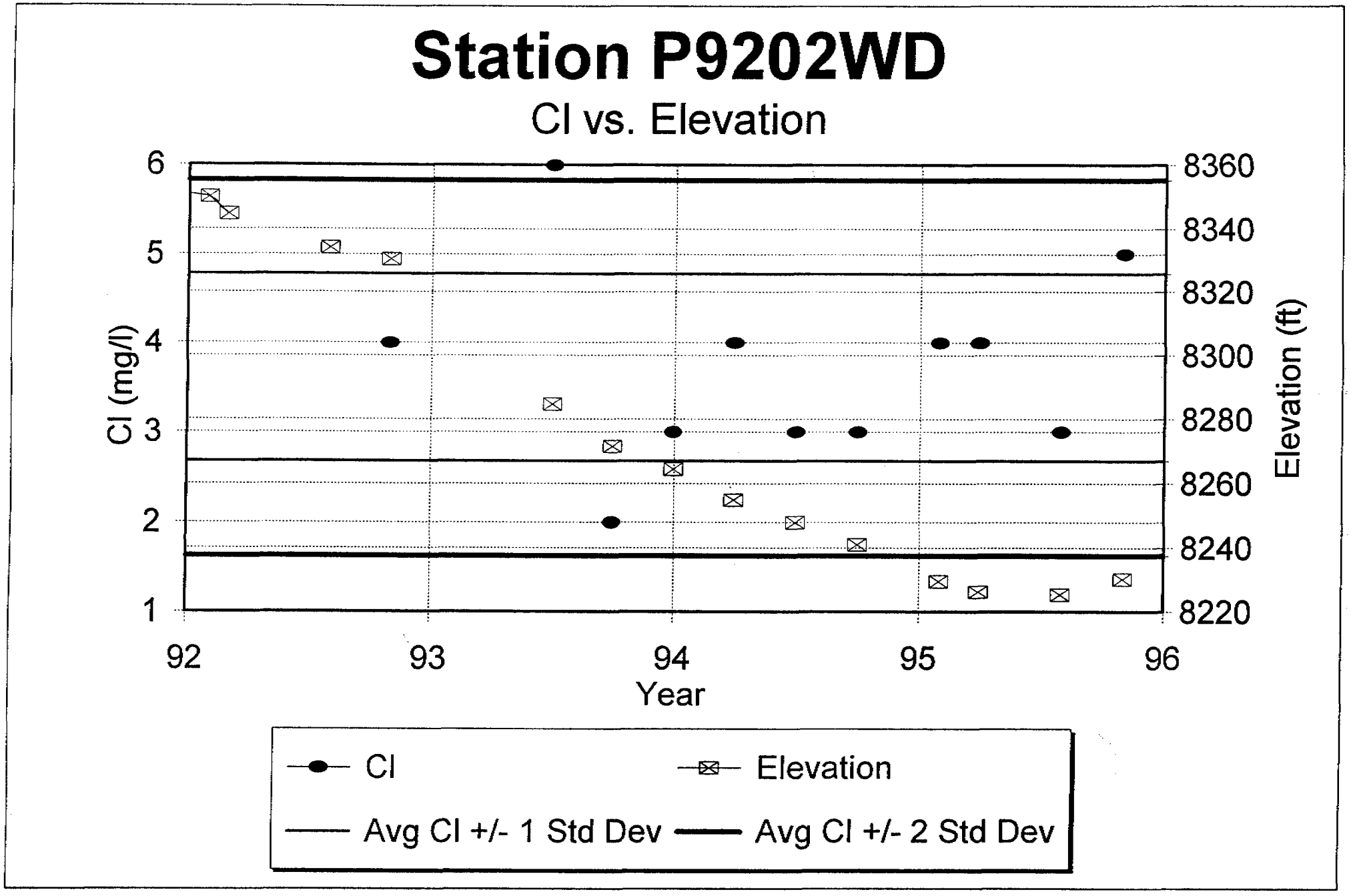

Station P9202WD
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
8400
8350
8300
8250
8200
8150
8100
8050
Jan-92
Oct-92
Jul-93
Apr-94
Jan-95
Oct-95
Year
Monthly Precipitation
Elevation

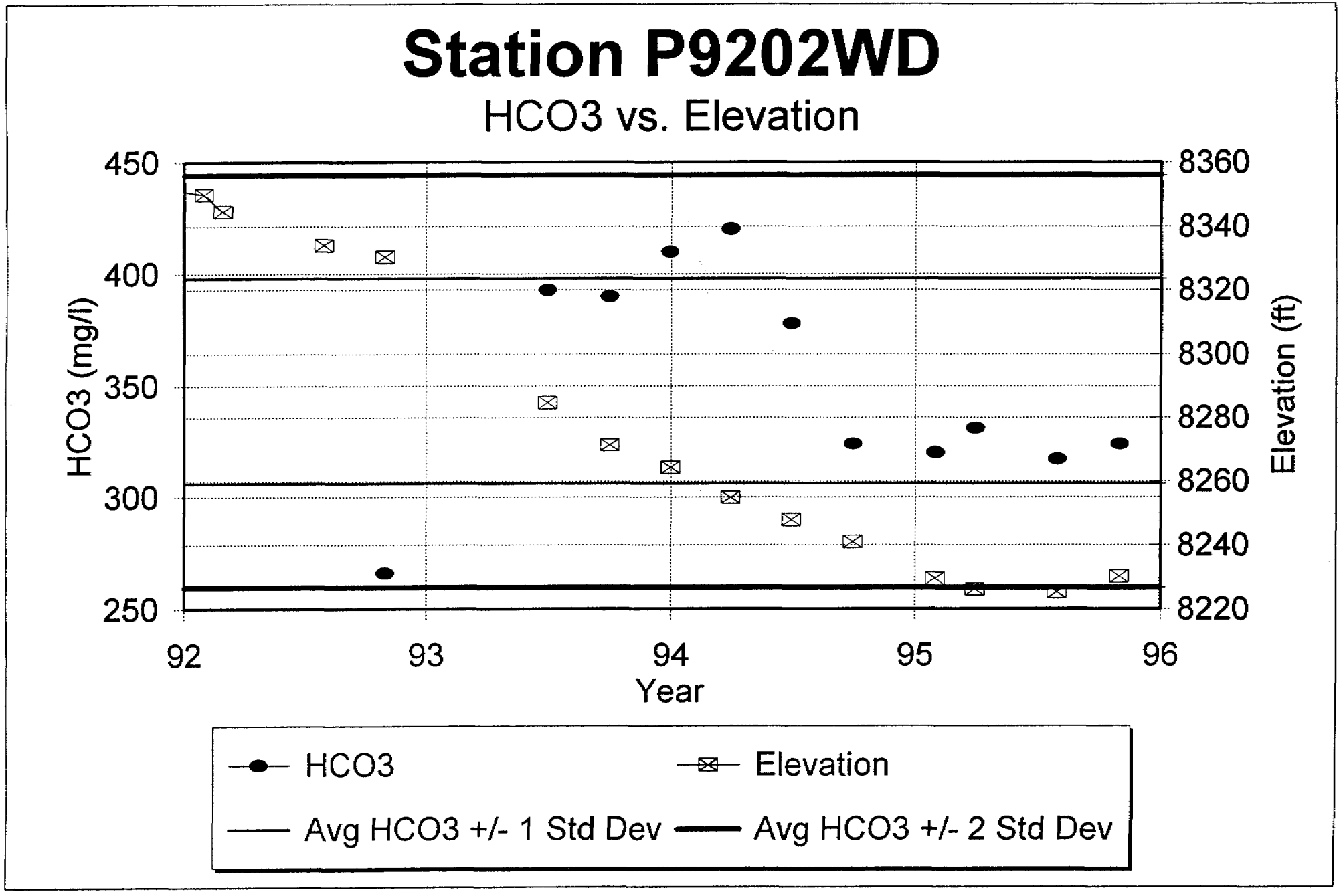

Station P9202WD
pH vs. Flow
8.5
8
7.5
7
6.5
6
5.5
pH (units)
8360
8340
8320
8300
8280
8260
8240
8220
Flow (cfs)
92
93
94
95
96
Year
pH
Elevation
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

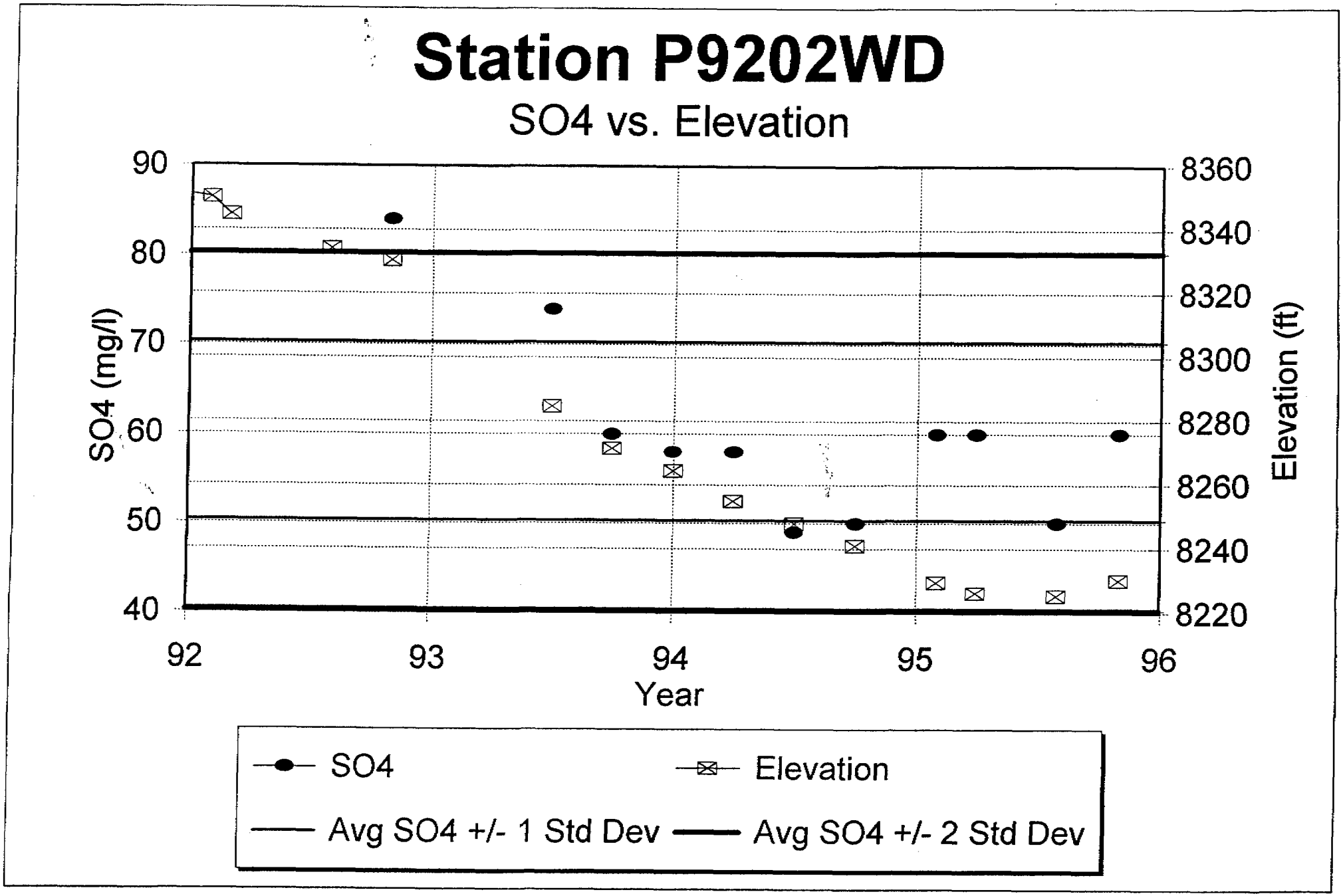

Station P9202WD
TDS vs. Elevation
410
405
400
395
390
385
380
375
TDS (mg/l)
8360
8340
8320
8300
8280
8260
8240
8220
Elevation (ft)
92
93
94
95
96
Year
TDS
Elevation
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station P9202WD
Ca vs. Elevation
Ca (mg/l)
105
100
95
90
85
80
75
70
Elevation (ft)
8360
8340
8320
8300
8280
8260
8240
8220
92
93
94
95
96
Year
Ca
Elevation
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station P9202WD
Mg vs. Elevation
Mg (mg/l)
40
38
36
34
32
30
Elevation (ft)
8360
8340
8320
8300
8280
8260
8240
8220
92
93
94
95
96
Year
Mg
Elevation
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station P9202WD
Cl vs. Elevation
Cl (mg/l)
6
5
4
3
2
1
8360
8340
8320
8300
8280
8260
8240
8220
Elevation (ft)
92
93
94
95
96
Year
Cl
Elevation
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station P9202WD
HCO3 vs. Elevation
450
400
350
300
250
HCO3 (mg/l)
8360
8340
8320
8300
8280
8260
8240
8220
Elevation (ft)
92
93
94
95
96
Year
HCO3
Elevation
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station P9202WD
SO4 vs. Elevation
SO4 (mg/l)
90
80
70
60
50
40
Elevation (ft)
8360
8340
8320
8300
8280
8260
8240
8220
92
93
94
95
96
Year
SO4
Elevation
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

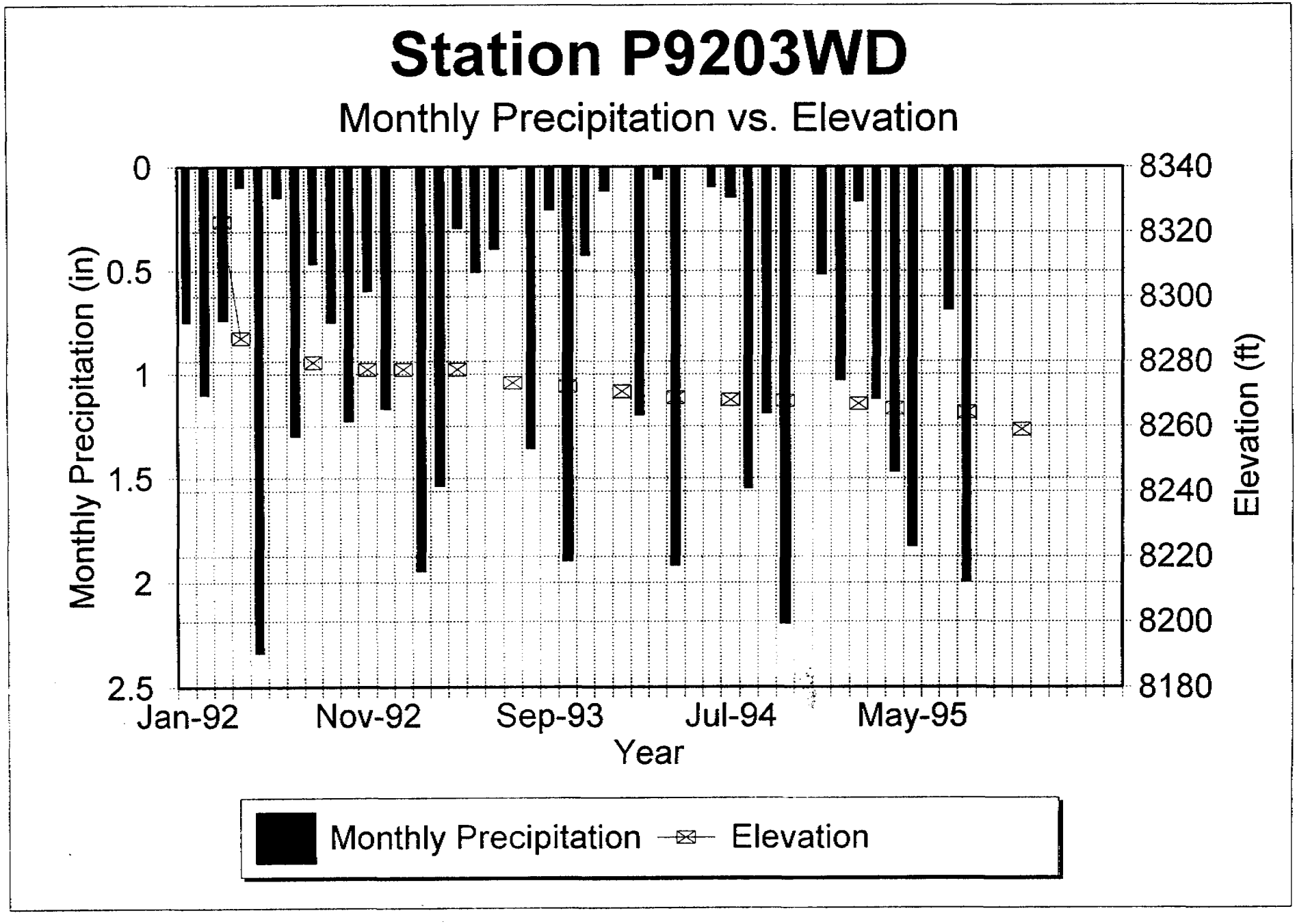
Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 6, 1996

Station: P9203WD | Property: Star Point | Location: 125' S 1500' W of NE corn. Sec 23, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8275

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																						
Feb-92																						
Mar-92		8323.1																				
Apr-92		8287.3																				
May-92																						
Jun-92																						
Jul-92																						
Aug-92		8279.6																				
Sep-92																						
Oct-92																						
Nov-92		8277.6																				
Dec-92																						
Jan-93		8277.6																				
Feb-93																						
Mar-93																						
Apr-93		8277.5																				
May-93																						
Jun-93																						
Jul-93		8273.4																				
Aug-93																						
Sep-93																						
Oct-93		8272.3																				
Nov-93																						
Dec-93																						
Jan-94		8270.7																				
Feb-94																						
Mar-94																						
Apr-94		8268.8																				
May-94																						
Jun-94																						
Jul-94		8268.2																				
Aug-94																						
Sep-94																						
Oct-94		8267.8																				
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95		8266.9																				
Mar-95																						
Apr-95		8265.5																				
May-95																						
Jun-95																						
Jul-95																						
Aug-95		8264.2																				
Sep-95																						
Oct-95																						
Nov-95		8258.9																				
Dec-95																						
Jan-96																						
END DATA																						
Count		16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8258.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8323.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8275	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		14.14	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8260.8	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8289.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8246.7	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8303.3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.


Station P9203WD
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
8340
8320
8300
8280
8260
8240
8220
8200
8180
Jan-92
Nov-92
Sep-93
Jul-94
May-95
Year
Monthly Precipitation
Elevation

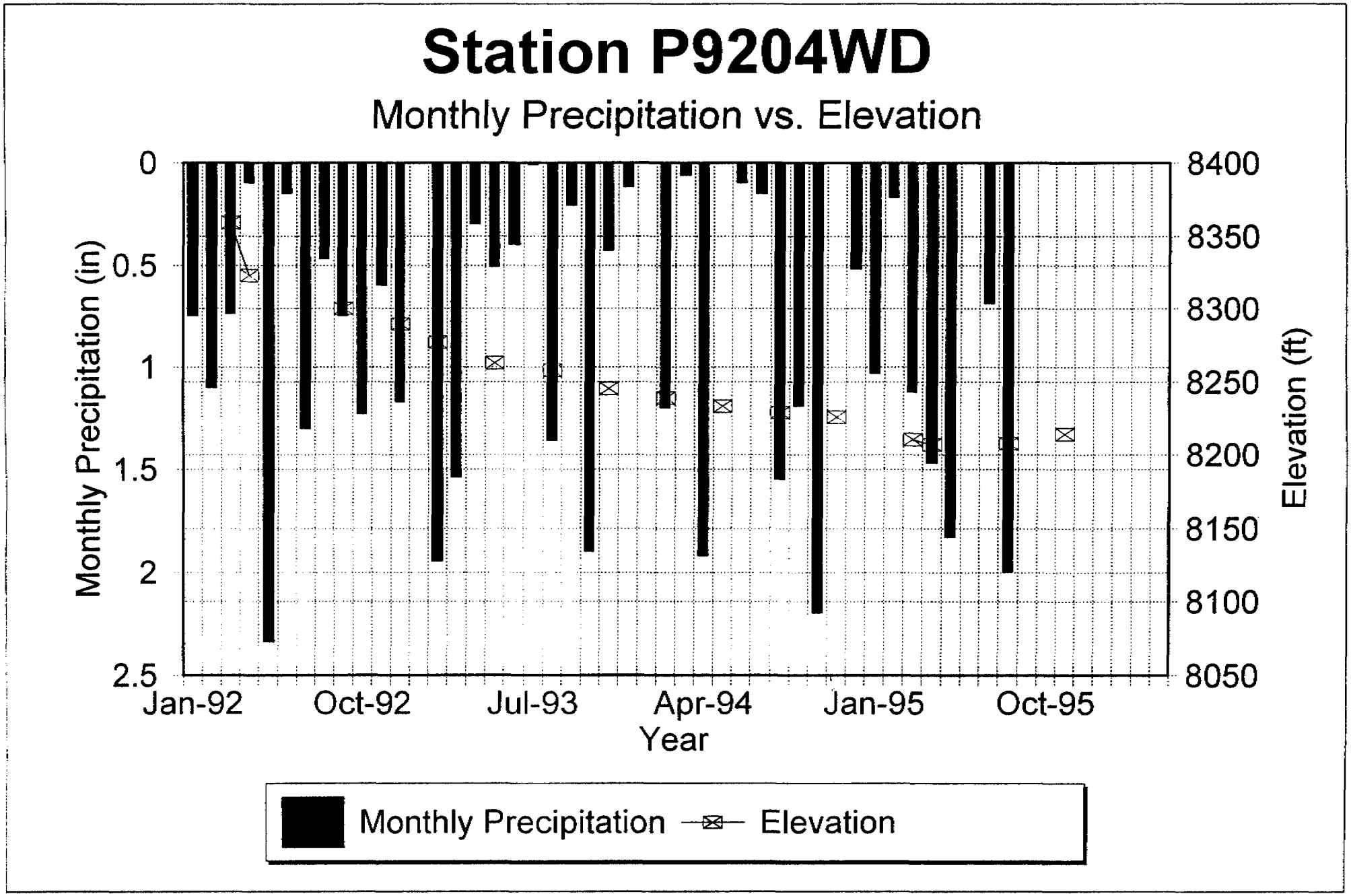
Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 25, 1996

Station: P9204WD | Property: Star Point | Location: 2375' N 2000' E of SW corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8366

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																						
Feb-92																						
Mar-92		8359.4																				
Apr-92		8322.8																				
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92		8300.1																				
Oct-92																						
Nov-92																						
Dec-92		8289.4																				
Jan-93																						
Feb-93		8277																				
Mar-93																						
Apr-93																						
May-93		8263.2																				
Jun-93																						
Jul-93																						
Aug-93		8257.9																				
Sep-93																						
Oct-93																						
Nov-93		8245.5																				
Dec-93																						
Jan-94																						
Feb-94		8239.1																				
Mar-94																						
Apr-94																						
May-94		8233.2																				
Jun-94																						
Jul-94																						
Aug-94		8229.1																				
Sep-94																						
Oct-94																						
Nov-94		8226.1																				
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95		8210.5																				
Apr-95		8207																				
May-95																						
Jun-95																						
Jul-95																						
Aug-95		8207.7																				
Sep-95																						
Oct-95																						
Nov-95		8214.2																				
Dec-95																						
Jan-96																						
END DATA																						
Count		16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8207	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8359.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8255.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		43.139	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8212	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8298.3	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8168.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8341.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.


Station P9204WD
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
8400
8350
8300
8250
8200
8150
8100
8050
Jan-92
Oct-92
Jul-93
Apr-94
Jan-95
Oct-95
Year
Monthly Precipitation
Elevation

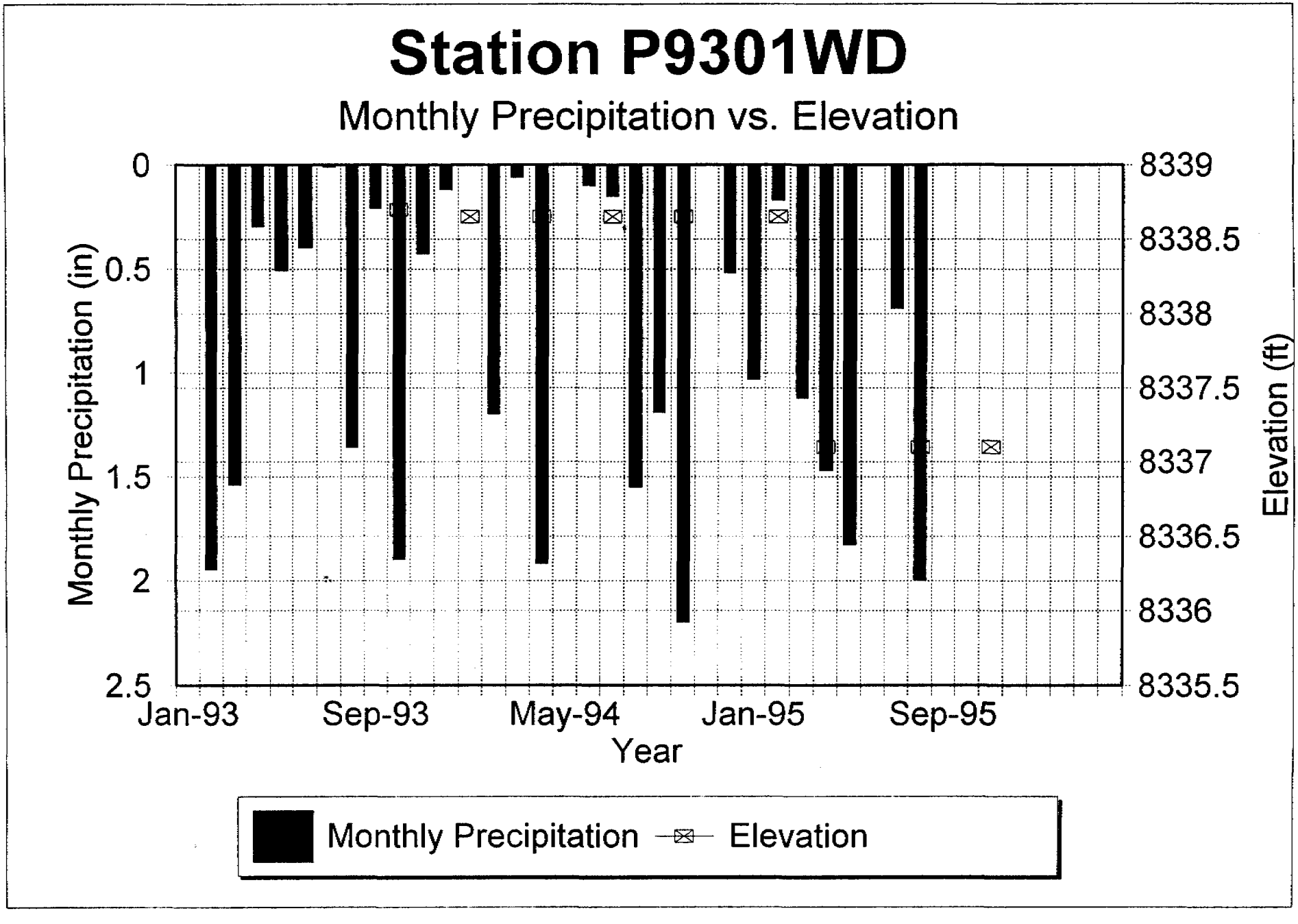
Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 25, 1996

Station: P9301WD | Property: Star Point | Location: 850' S 2000' W of NE corn. Sec 14, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8488

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93																						
Jul-93																						
Aug-93																						
Sep-93																						
Oct-93	10/19/93	8338.7																				
Nov-93																						
Dec-93																						
Jan-94	01/26/94	8338.7																				
Feb-94																						
Mar-94																						
Apr-94	04/25/94	8338.7																				
May-94																						
Jun-94																						
Jul-94	07/20/94	8338.7																				
Aug-94																						
Sep-94																						
Oct-94	10/27/94	8338.7																				
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95	02/27/95	8338.7																				
Mar-95																						
Apr-95	04/26/95	8337.1																				
May-95																						
Jun-95																						
Jul-95																						
Aug-95	08/24/95	8337.1																				
Sep-95																						
Oct-95																						
Nov-95	11/28/95	8337.1																				
Dec-95																						
Jan-96																						
END DATA																						
Count		9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8337.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8338.7	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8338.1	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		0.7348	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8337.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8338.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8336.7	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8339.6	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.


Station P9301WD
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
8339
8338.5
8338
8337.5
8337
8336.5
8336
8335.5
Jan-93
Sep-93
May-94
Jan-95
Sep-95
Year
Monthly Precipitation
Elevation

Cyprus Plateau Mining Company - Water Quality Data

Station: 86266 | Property: Star Point | Location: 1000' N 2500' W of SE corn. Sec 26, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Print Date: April 25, 1996 | Elevation: 9727

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86																						
Jun-86																						
Jul-86																						
Aug-86																						
Sep-86																						
Oct-86																						
Nov-86																						
Dec-86																						
Jan-87																						
Feb-87																						
Mar-87																						
Apr-87																						
May-87																						
Jun-87																						
Jul-87																						
Aug-87																						
Sep-87																						
Oct-87																						
Nov-87																						
Dec-87																						
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88																						
Jul-88																						
Aug-88																						
Sep-88																						
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89																						
Jul-89																						
Aug-89																						
Sep-89																						
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90																						
Jun-90																						
Jul-90																						
Aug-90																						
Sep-90																						
Oct-90																						
Nov-90																						
Dec-90																						
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91																						
Jul-91																						
Aug-91																						
Sep-91																						
Oct-91																						
Nov-91																						
Dec-91																						

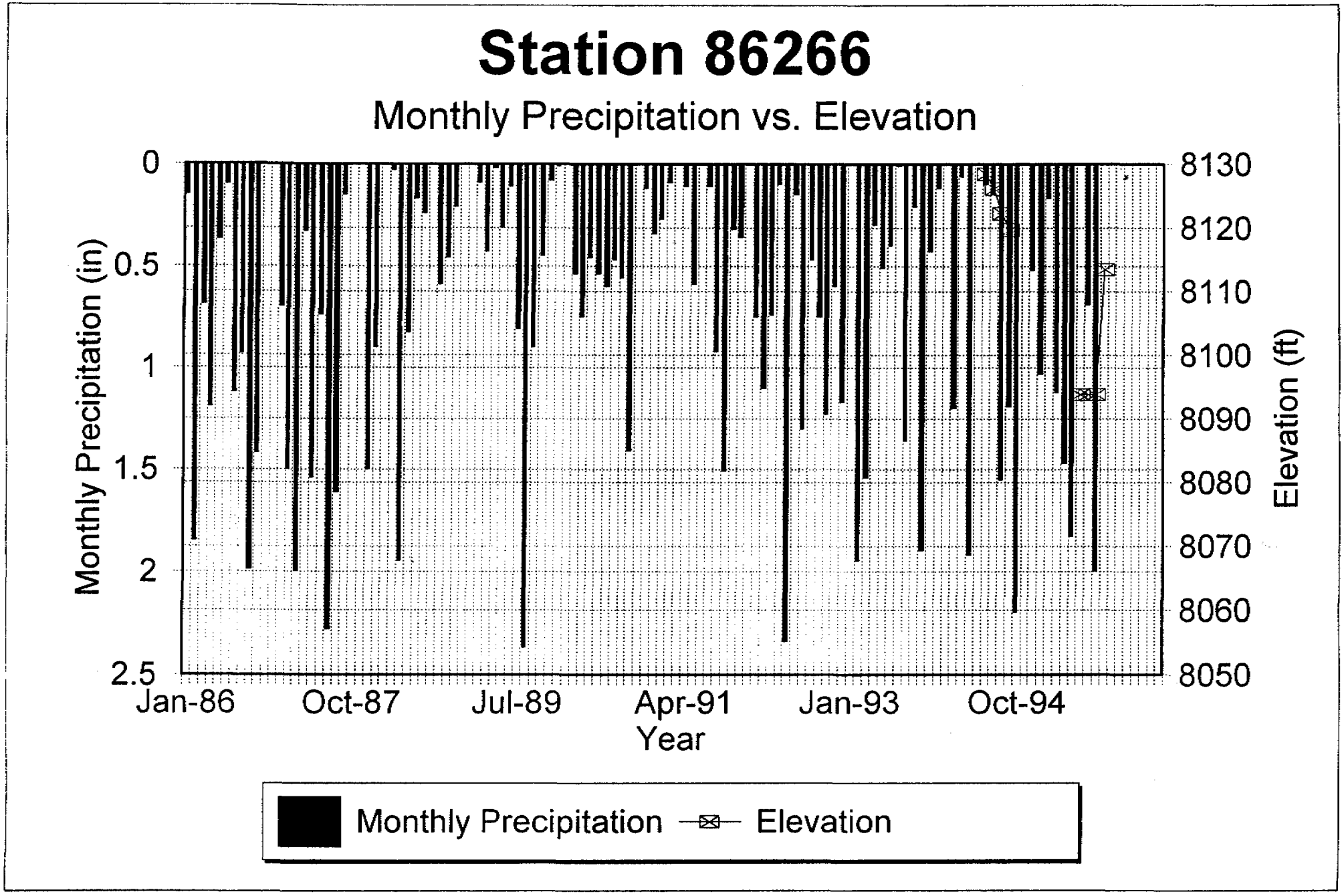
Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 25, 1996

Station: 86266 | Property: Star Point | Location: 1000' N 2500' W of SE corn. Sec 26, T15S, R7E | Station Type: Well | Sampling Frequency: Quarterly | Formation: | Elevation: 9727

Date Mo-Yr	Sample Date	Field Measurements Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	Laboratory Measurements TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93																						
Jul-93																						
Aug-93																						
Sep-93																						
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94		8128.5																				
Jul-94		8126.2																				
Aug-94		8122.2																				
Sep-94		8119.7																				
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95		8093.8																				
Jul-95		8093.8																				
Aug-95		8093.8																				
Sep-95		8113.5																				
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
Count		8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8093.8	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8128.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8111.4	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		14.259	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8097.2	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8125.7	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8082.9	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8140	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.


Station 86266
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
8130
8120
8110
8100
8090
8080
8070
8060
8050
Jan-86
Oct-87
Jul-89
Apr-91
Jan-93
Oct-94
Year
Monthly Precipitation
Elevation

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 25, 1996

Station: 863523 | Property: Star Point | Location: 1500' N 100' E of SW corn. Sec 35, T15S, R7E | Station Type: Spring/Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8020

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88	06/13/88	0.18	7.2	405	10	340			335	349		5	35	83	31	2	3	<	0.02	0.06	0.01	
Jul-88	07/09/88	0.18	7.3	424	11.7	318			250	349		4	35	46	33	2	4		0.04	0.07	0.01	
Aug-88	08/20/88	0.18	7.6	425	12																	
Sep-88	09/03/88	0.3	7.5	420	12	344			354	373		4	43	84	35	3	3		0.33	0.98	0.03	
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89	06/07/89	0.23	7.4	610	9	332			263	285		3	39	56	30	2	3	<	0.02	0.17 <	0.01	
Jul-89	07/11/89	0.23	7.3	560	9	336			334	325		3	39	78	34	2	3	<	0.02	0.03	0.01	
Aug-89	08/23/89	0.22	7.3	600	9																	
Sep-89	09/14/89	0.22	7.2	500	7	300			328	344		2	19	77	33	2	4	<	0.02	0.02 <	0.01	
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90																						
Jun-90	06/02/90	0.21	7.4	610	9	348			316	350		5	39	77	30	1	4	<	0.02	0.23 <	0.01	
Jul-90	07/06/90	0.2	7.4	600	10	342			356	357		4	35	90	32	2	4		0.04	0.04 <	0.01	
Aug-90	08/22/90	0.2	8.5	530	8																	
Sep-90	09/24/90	0.2	7.4	520	6	356			338	357		4	23	86	30	2	3	<	0.02	0.31 <	0.01	
Oct-90																						
Nov-90																						
Dec-90																						
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91	06/12/91	0.2	7.5	620	9	362			286	320	10	5	25	70	27	2	3	<	0.02	0.58 <	0.01	
Jul-91	07/16/91	0.19	7.1	570	9	338			323	344	0	5	33	80	30	2	4	<	0.02 <	0.02 <	0.01	
Aug-91																						
Sep-91	09/17/91	0.19	8	450	9	326			302	276	0	3	76	75	28	2	3		0.02	0.05	0.01	
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92	05/20/92	0.1849	7.4	591	9.4	324			322	346	0	2	37	78	31	2	3	<	0.02 <	0.02 <	0.01	
Jun-92	06/15/92	0.19																				
Jul-92	07/24/92	0.19	7.2	580	9.1	400			351	364	0	3	60	106	21	1	2	<	0.02 <	0.02 <	0.01	
Aug-92	08/21/92	0.163	7.2	584	9.2	298			317	360	0	3	35	76	31	2	3	<	0.02 <	0.02	0.01	
Sep-92	09/03/92	0.163	6.2	589	9	316	4 <	0.2	316	285	10	3	66	77	30	2	3	<	0.02 <	0.02 <	0.01	
Oct-92	10/30/92	0.181	6.3	625	9.5	316			313	312	17	8	51	76	30	1	3	<	0.02	0.05 <	0.01	
Nov-92																						
Dec-92	12/21/92													81	31	1	3	<	0.02 <	0.02 <	0.01	
Jan-93	01/26/93	0.174	12.2	1236	15.6	584			642	310	12	2	33	79	30	2	3	<	0.02 <	0.02 <	0.01	
Feb-93	02/28/93	0.17	6.5	542	7.8	350			309	344	5	3	58	76	29	2	4	<	0.02 <	0.02 <	0.01	
Mar-93	03/30/93	0.16	13	1124	14.6	620			682	346	0	3	39	84	32	2	5	<	0.02 <	0.02 <	0.01	
Apr-93	04/26/93	0.17	12.8	1090	17.4	604			672	337	0	3	39	82	32	2	4	<	0.02 <	0.02 <	0.01	
May-93	05/20/93	0.149	12.7	1028	19.6	676			596	356	0	3	31	75	27	1	3	<	0.02 <	0.02 <	0.01	
Jun-93	06/22/93	0.138	6	579	9.1	304			311	359	0	3	23	77	29	2	3	<	0.02 <	0.02 <	0.01	
Jul-93	07/27/93	0.144	6.2	575	9.3	318			332	354	12	3	33	82	31	2	3	<	0.02 <	0.02 <	0.01	
Aug-93	08/18/93		6.3	564	9.7	308			330	325	14	3	41	81	31	2	3	<	0.02 <	0.02 <	0.01	
Sep-93	09/13/93	0.143	6.4	562	9.7	316			283	361	0	3	32	69	27	1	3	<	0.02	0.02 <	0.01	
Oct-93	10/19/93	0.123	6.2	700	8.6	302			316	366	0	3	39	77	30	2	3	<	0.02 <	0.02 <	0.01	
Nov-93																						
Dec-93	12/20/93	0.23				304			304	292	0	4	25	74	29	2	3	<	0	0	0	

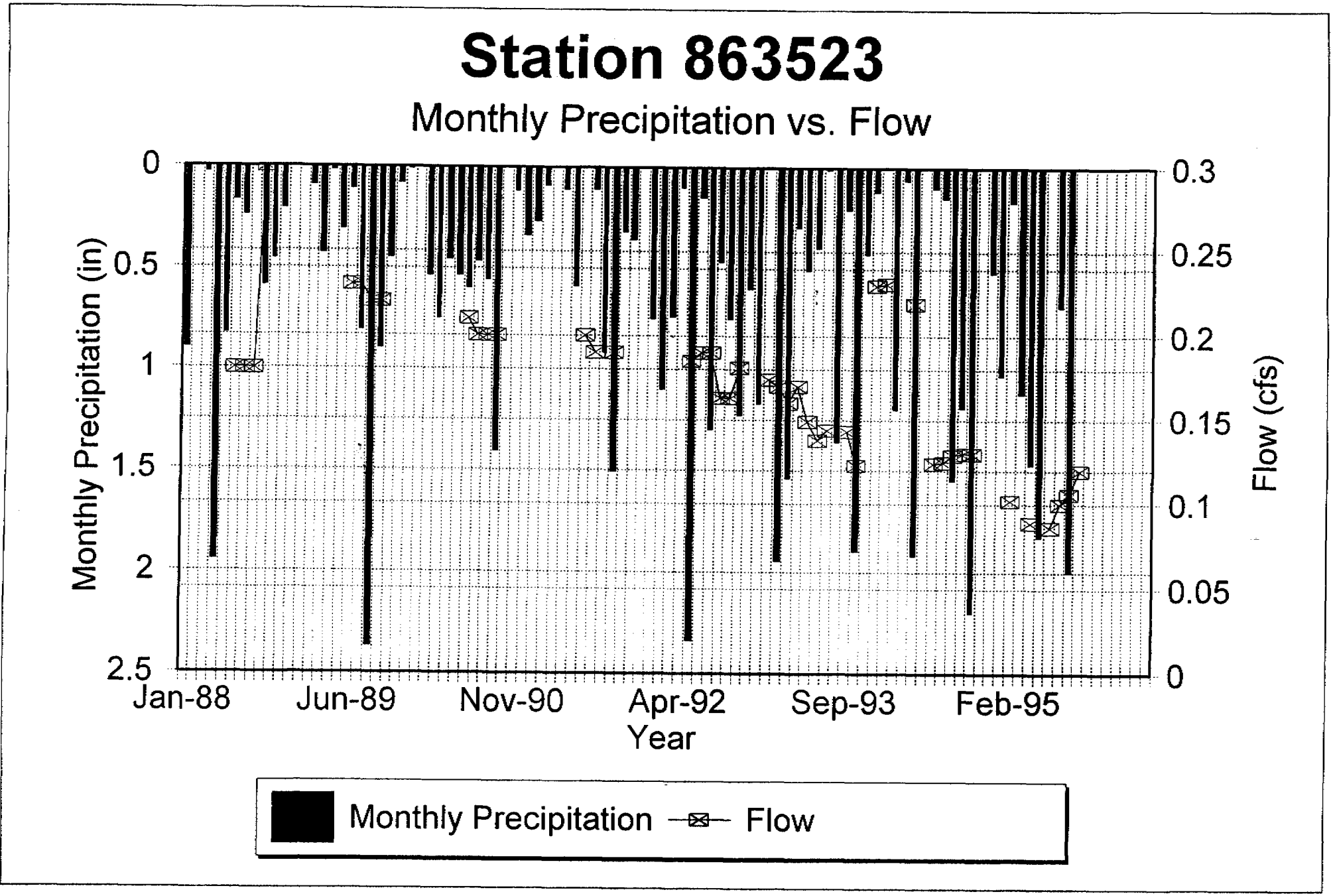
Print Date: April 26, 1996

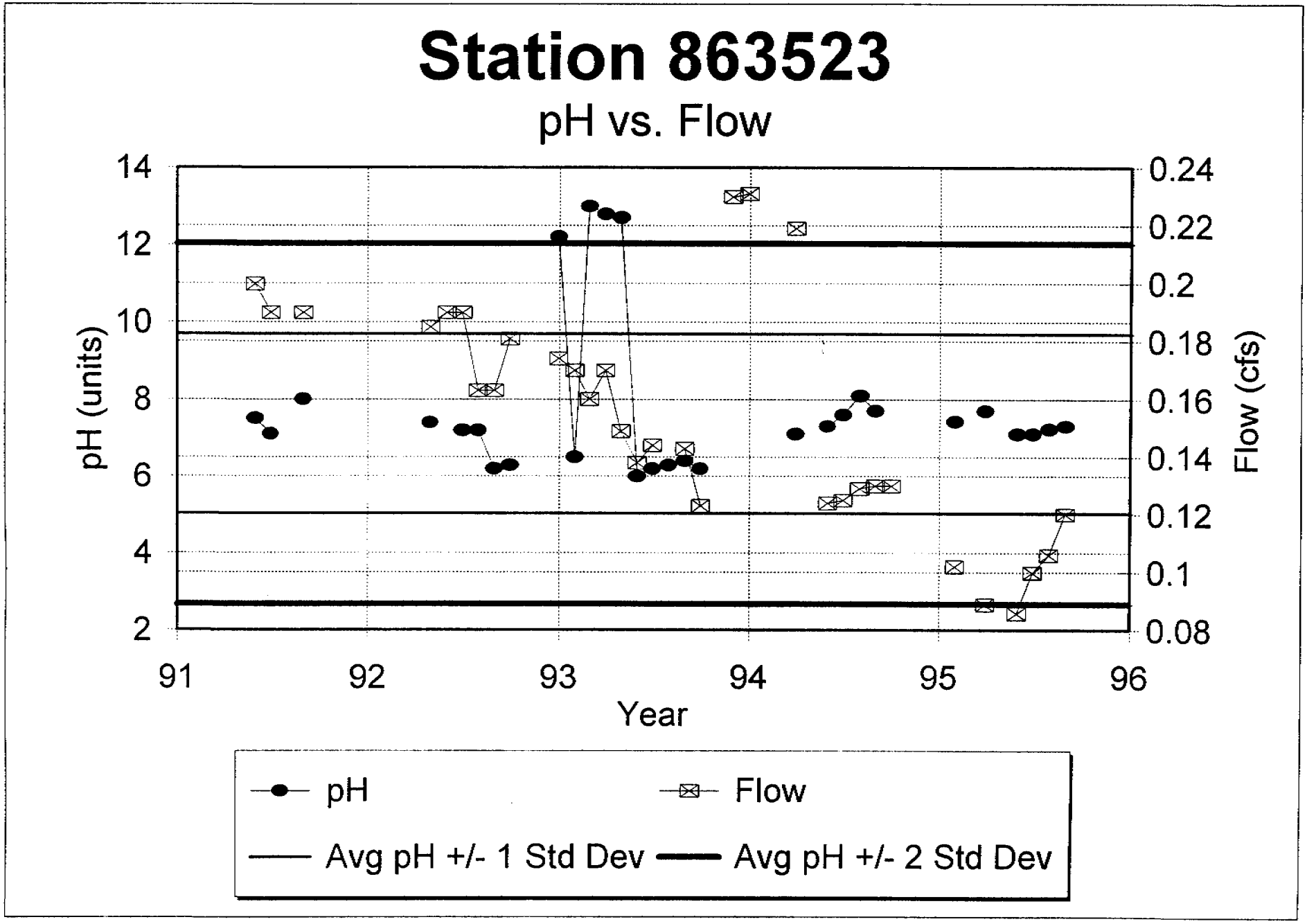
Cyprus Plateau Mining Company - Water Quality Data

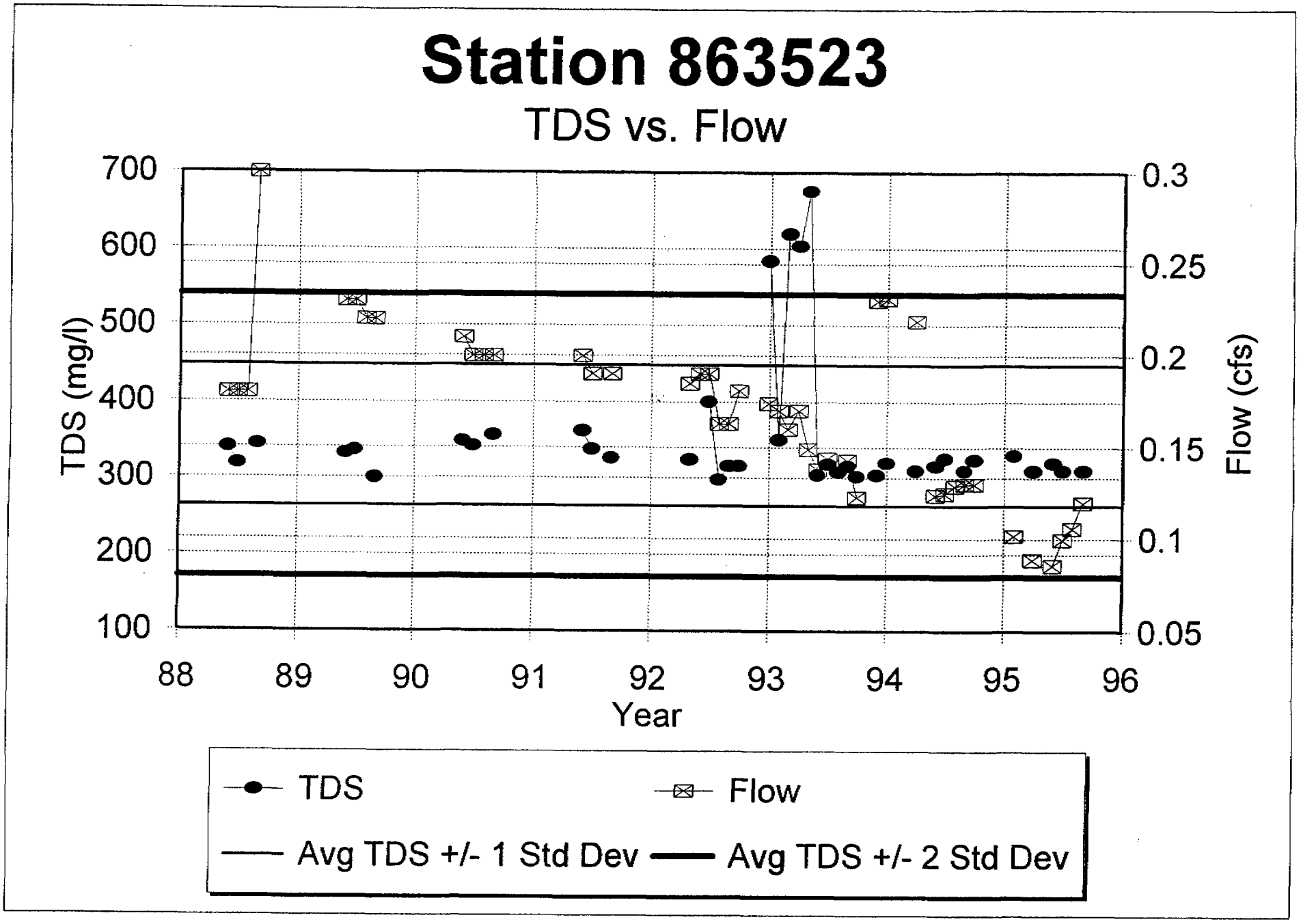
Station: 863523 | Property: Star Point | Location: 1500' N 100' E of SW corn. Sec 35, T15S, R7E | Station Type: Spring/Well | Sampling Frequency: Quarterly | Formation: | Elevation: 8020

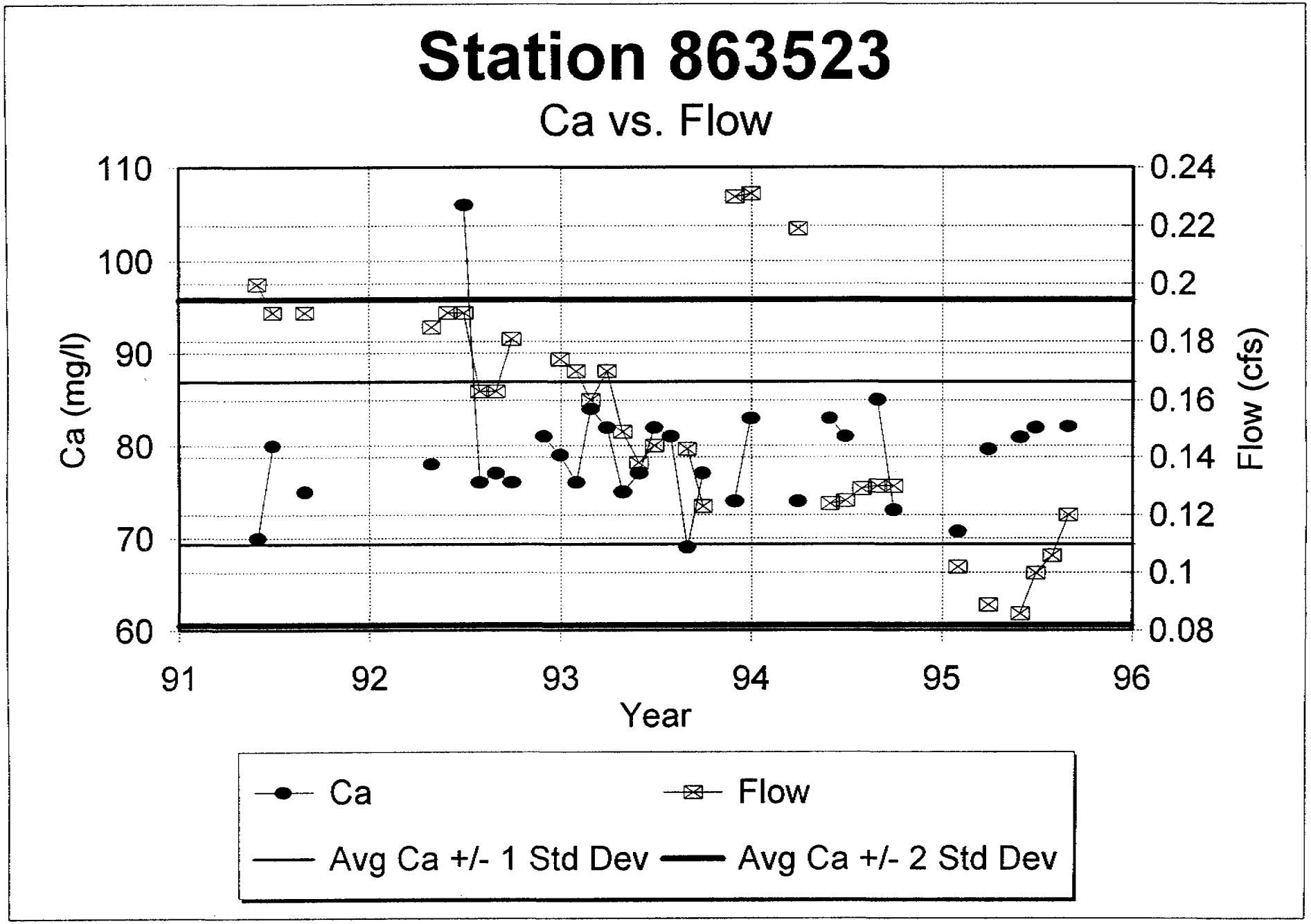
Date		Field Measurements				Laboratory Measurements																	Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)		
Jan-94	01/25/94	0.231				320			339	366	0	4	27	83	32	2	4	<	0.02 <	0.02 <	0.01		
Feb-94																							
Mar-94																							
Apr-94	04/25/94	0.219	7.1	658	8.3	310			304	376	0	3	25	74	29	1	3	<	0.02 <	0.02 <	0.01		
May-94																							
Jun-94	06/28/94	0.124	7.3	642	8.3	316			343	368	0	4	23	83	33	2	4		0.02	0.06 <	0.01		
Jul-94	07/20/94	0.125	7.6	531	10.8	326			330	334	10	3	29	81	31	2	4	<	0.02	0.11 <	0.01		
Aug-94	08/31/94	0.129	8.1	492	13.5																		
Sep-94	09/21/94	0.13	7.7	522	14.8	310			348	390	0	3	31	85	33	2	4	<	0.02	0.04 <	0.01		
Oct-94	10/25/94	0.13				324			297	176	0	3	25	73	28	1	3	<	0.02 <	0.02 <	0.01		
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95	02/27/95	0.102	7.42	699	10	330	<	2	290	273 <	2	3	30	70.7	27.5	1.5	3.2	-1.7 <	0.01	0.05	0.009		
Mar-95																							
Apr-95	04/27/95	0.089	7.7	534	10.94	310	<	2	327	292 <	2	3	30	79.6	31.2	1.7	3.6	1.4 <	0.01	0.03	0.008		
May-95																							
Jun-95	06/22/95	0.086	7.1	588	9	320	<	2	334	286 <	2	4	30	80.9	32	1.7	3.6	3.1 <	0.01	0.02	0.006		
Jul-95	07/26/95	0.1	7.1	589	10	310	<	2	337	290 <	2	3	40	82	32.1	1.6	3.6	1.5 <	0.01	0.01	0.005		
Aug-95	08/28/95	0.106	7.23	604	9																		
Sep-95	09/27/95	0.12	7.3	670	9	310			335	294 <	2	3	40	82.1	31.6	1.6	3.5	0.6	0.02	0.01 <	0.005		
Oct-95																							
Nov-95																							
Dec-95																							
Jan-96																							
END DATA																							
Count		44	43	41	43	39	1	5	39	39	30	39	39	40	40	40	40	5	40	40	40		
Minimum		0.088	0	405	0	298	4 <	0.2	250	176 <	0	2	19	46	21	1	2	-1.7 <	0 <	0 <	0		
Maximum		0.3	13	1236	19.6	676	4 <	2	682	390 <	17	8	76	106	35	3	5	3.1 <	0.33 <	0.98 <	0.03		
Average		0.1703	7.357	618.1	9.7893	355.59	4 <	1.64	352.95	330.54 <	3.3333	3.4615	36.231	78.158	30.36	1.7775	3.3625	0.98 <	0.0273 <	0.0825 <	0.0098		
Standard Deviation		0.0453	2.3355	180.34	3.4146	92.495	0 <	0.72	102.87	40.182 <	5.1143	1.0584	11.939	8.7936	2.416	0.4407	0.5503	1.5664 <	0.0489 <	0.1766 <	0.0038		
Avg. -1 Std. Dev.		0.125	5.0215	437.75	6.3747	263.09	4 <	0.92	250.08	290.36 <	-1.781	2.4031	24.292	69.364	27.944	1.3368	2.8122	-0.586 <	-0.022 <	-0.094 <	0.0061		
Avg. +1 Std. Dev.		0.2156	9.6924	798.44	13.204	448.08	4 <	2.36	455.82	370.72 <	8.4476	4.52	48.17	86.951	32.776	2.2182	3.9128	2.5464 <	0.0761 <	0.2591 <	0.0136		
Avg. -2 Std. Dev.		0.0797	2.686	257.41	2.9601	170.6	4 <	0.2	147.2	250.17 <	-6.895	1.3446	12.353	60.57	25.528	0.896	2.2619	-2.153 <	-0.071 <	-0.271 <	0.0023		
Avg. +2 Std. Dev.		0.2609	12.028	978.79	16.618	540.58	4 <	3.08	558.69	410.9 <	13.562	5.5784	60.108	95.745	35.192	2.659	4.4631	4.1126 <	0.125 <	0.4357 <	0.0174		

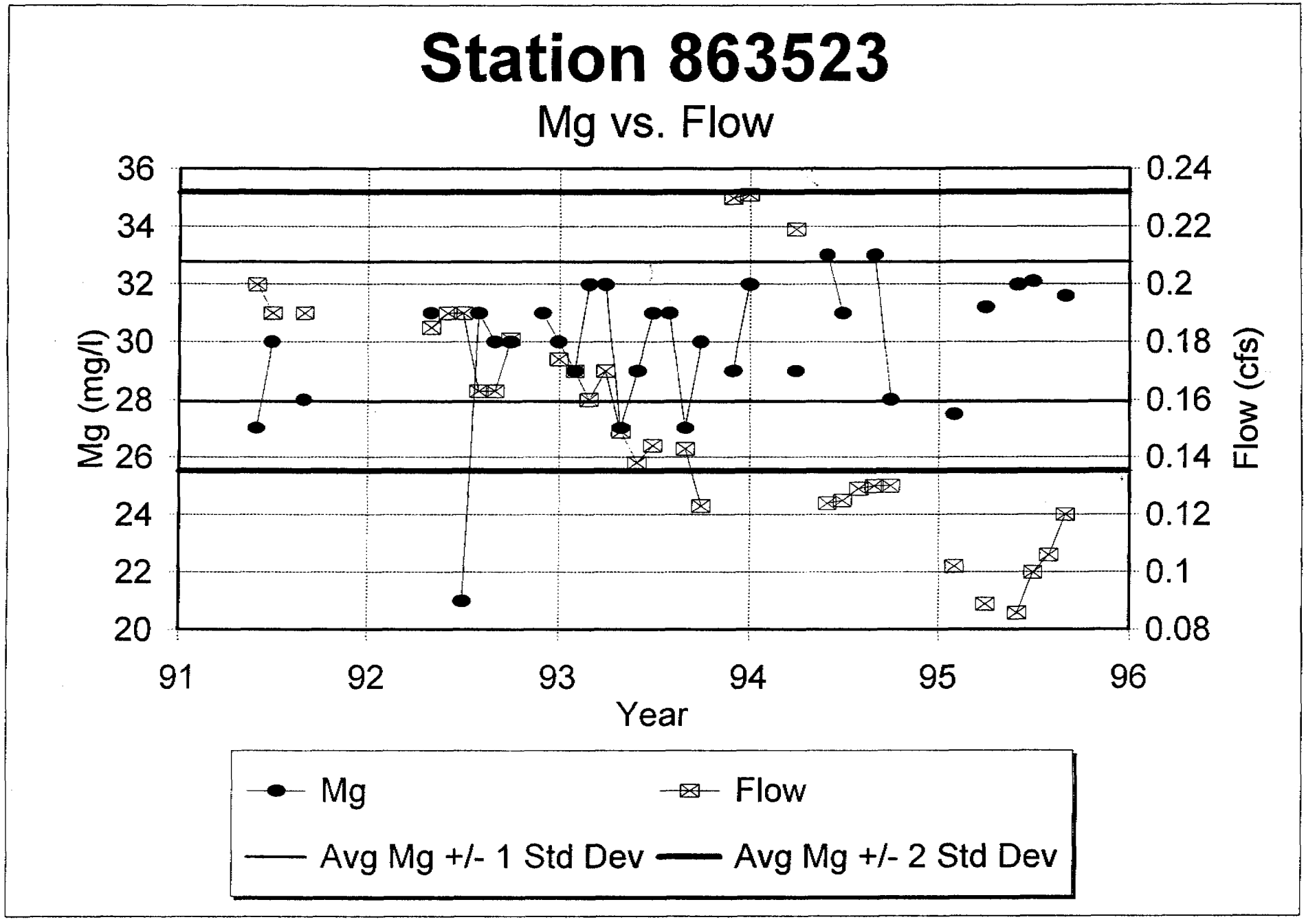
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

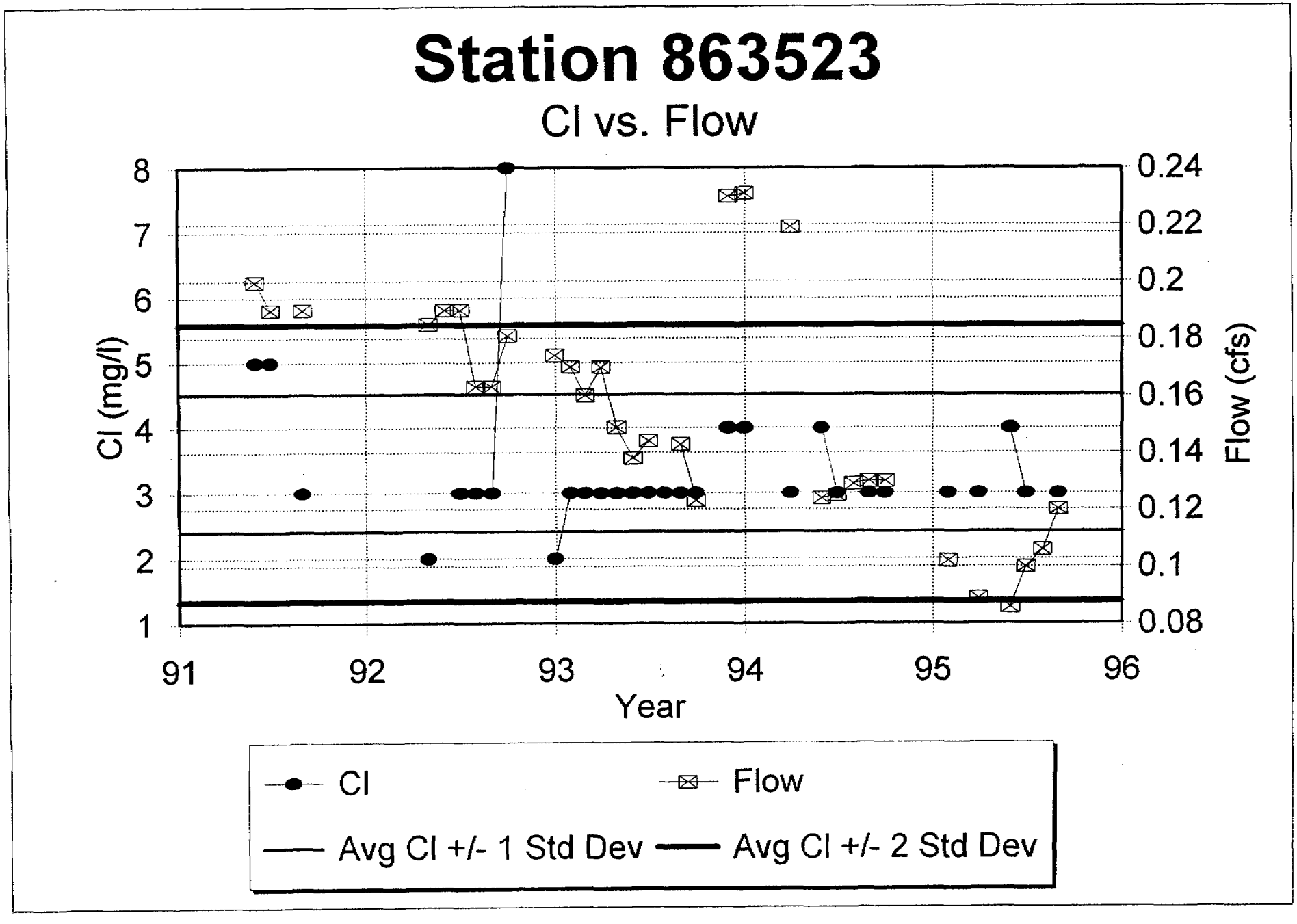

Station 863523
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Flow (cfs)
0.3
0.25
0.2
0.15
0.1
0.05
0
Jan-88
Jun-89
Nov-90
Apr-92
Sep-93
Feb-95
Year
Monthly Precipitation
Flow

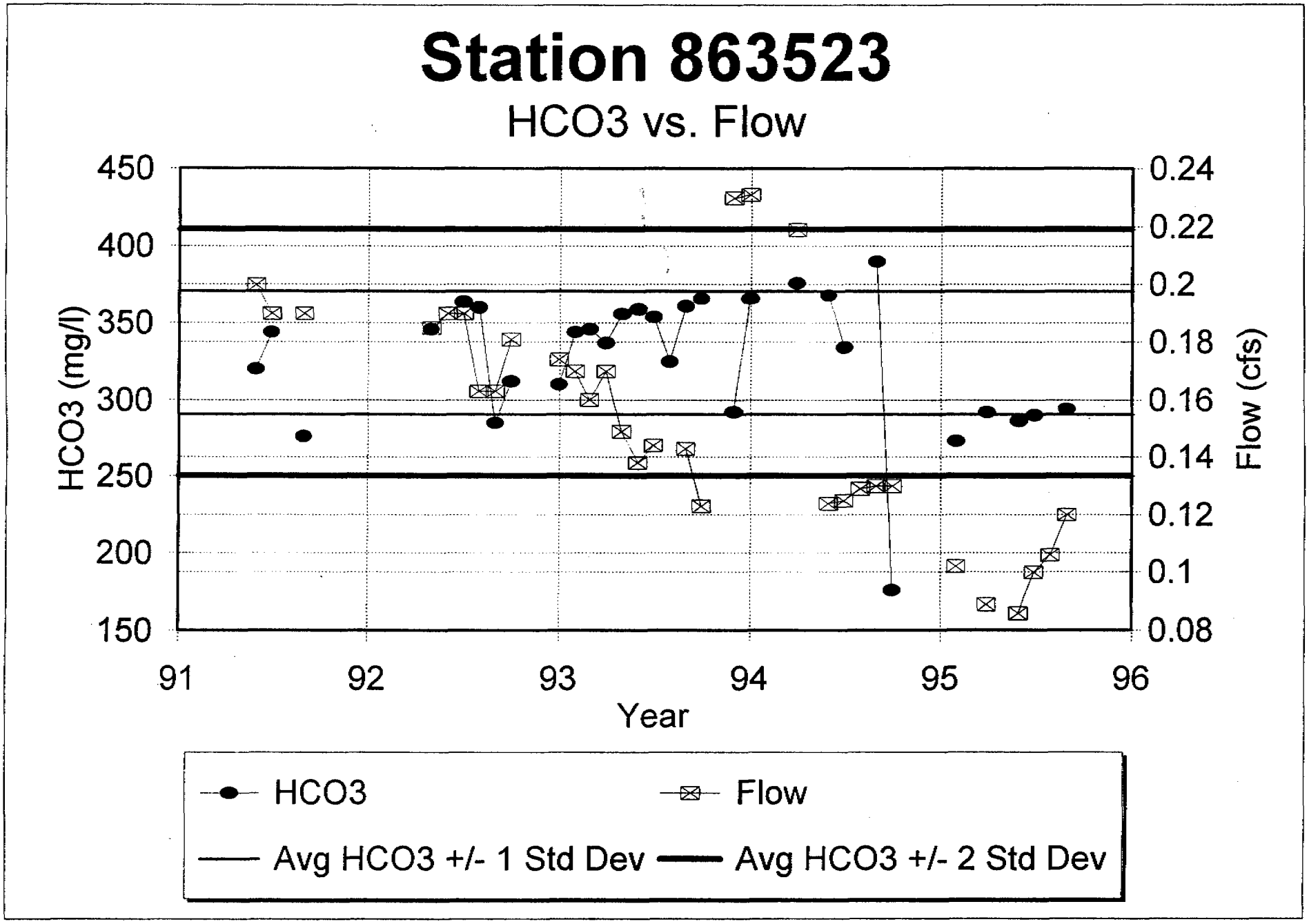

Station 863523
pH vs. Flow
14
12
10
8
6
4
2
pH (units)
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
Flow (cfs)
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

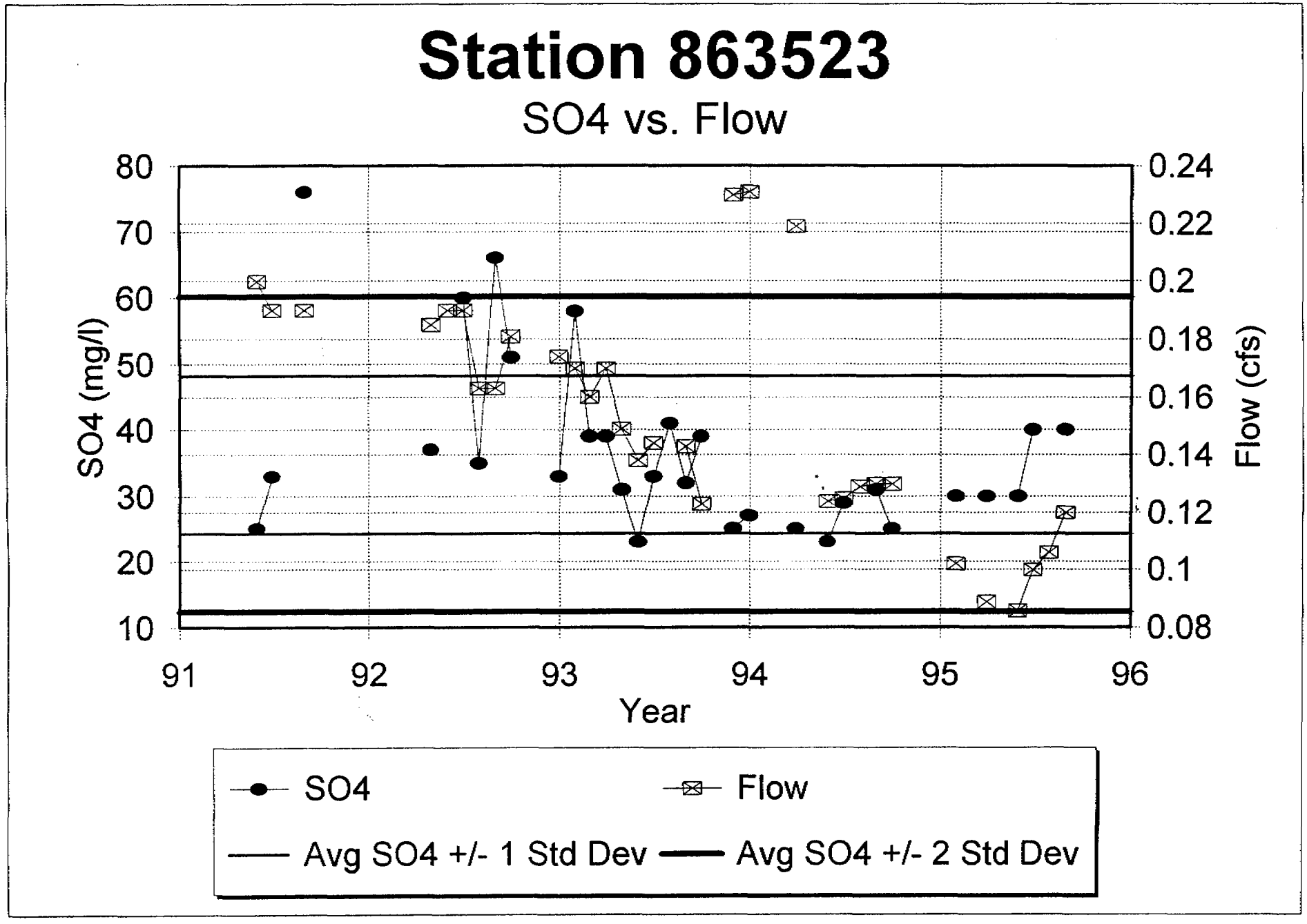

Station 863523
TDS vs. Flow
TDS (mg/l)
700
600
500
400
300
200
100
Flow (cfs)
0.3
0.25
0.2
0.15
0.1
0.05
88
89
90
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 863523
Ca vs. Flow
110
100
90
80
70
60
Ca (mg/l)
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
Flow (cfs)
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 863523
Mg vs. Flow
Mg (mg/l)
36
34
32
30
28
26
24
22
20
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
Flow (cfs)
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 863523
Cl vs. Flow
Cl (mg/l)
8
7
6
5
4
3
2
1
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
Flow (cfs)
91
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 863523
HCO3 vs. Flow
450
400
350
300
250
200
150
HCO3 (mg/l)
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
Flow (cfs)
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 863523
SO4 vs. Flow
SO4 (mg/l)
80
70
60
50
40
30
20
10
Flow (cfs)
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

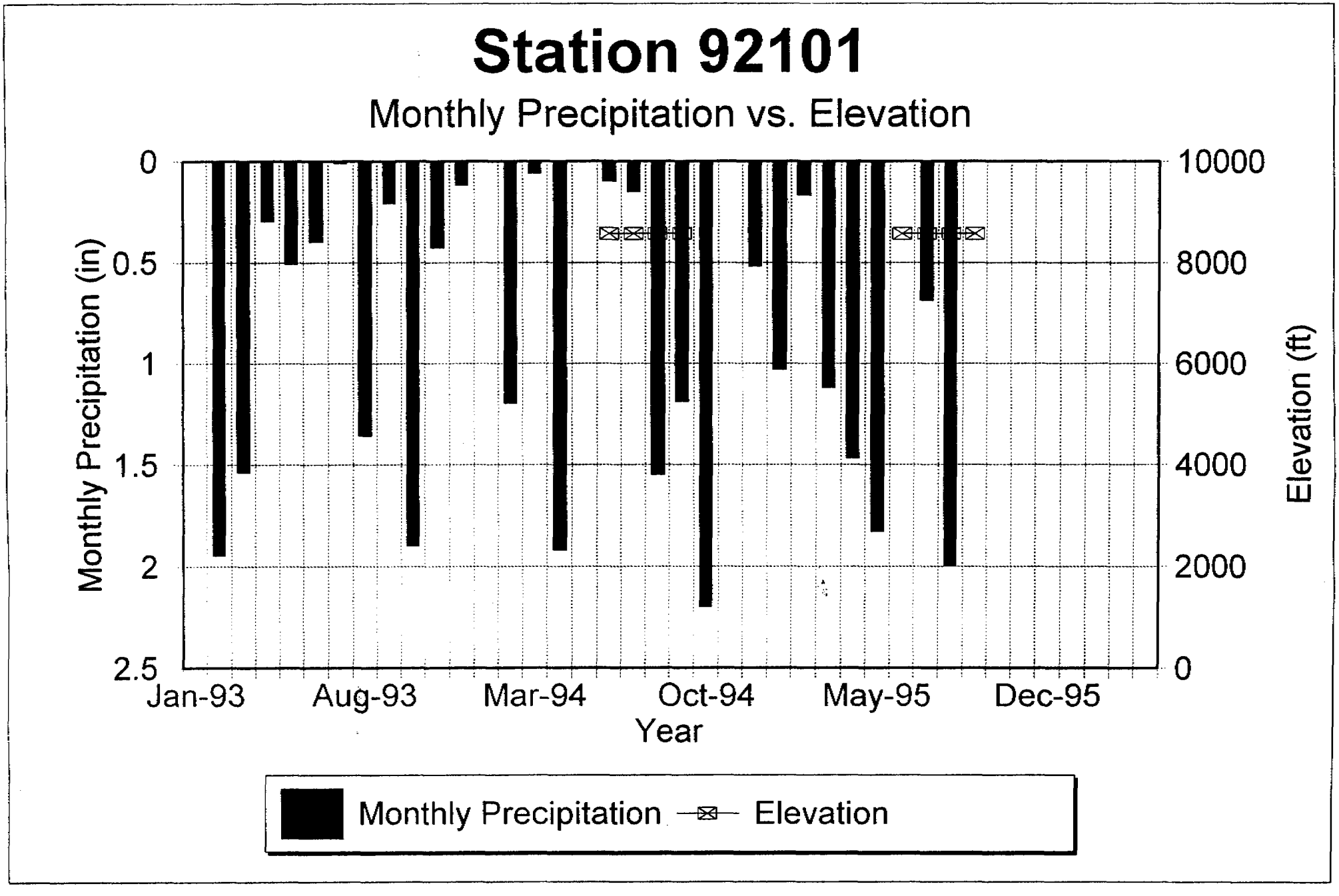
Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 25, 1996

Station: 92101 Property: Star Point Location: 1875' S 500' W of NE corn. Sec 10, T15S, R7E Station Type: Well Sampling Frequency: Quarterly Formation: Elevation: 9138

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Elev. (ft)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93																						
Jul-93																						
Aug-93																						
Sep-93																						
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94		8571.5																				
Jul-94		8571.5																				
Aug-94		8571.5																				
Sep-94		8571.5																				
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95		8571.5																				
Jul-95		8571.5																				
Aug-95		8571.5																				
Sep-95		8571.5																				
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
Count		8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Minimum		8571.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Maximum		8571.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Average		8571.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Standard Deviation		0	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -1 Std. Dev.		8571.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +1 Std. Dev.		8571.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. -2 Std. Dev.		8571.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	
Avg. +2 Std. Dev.		8571.5	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	ERR	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.


Station 92101
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
10000
8000
6000
4000
2000
0
Jan-93
Aug-93
Mar-94
Oct-94
May-95
Dec-95
Year
Monthly Precipitation
Elevation

Print Date: May 8, 1996

Cyprus Plateau Mining Company - Water Quality Data

Station: 85351 Property: Star Point Location: 1500' N 625' E of SW corn, Sec 35, T15S, R7E Station Type: Sampling Frequency: Quarterly Formation: Elevation: 8040

Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91																						
Jul-91																						
Aug-91																						
Sep-91																						
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93																						
Jul-93																						
Aug-93																						
Sep-93																						
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94																						
Jul-94																						
Aug-94																						
Sep-94																						
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95	0.86	7.02	604	10.2	360			321	306 <	2	3	50	77.7	30.9	2.3	3	-4.5	0.12	0.56	0.027	
Jul-95	07/26/95	0.008	7.2	607	11	330			357	295 <	2	3	40	85.6	34.7	2.4	3.5	3.8	0.31	1.19	0.025	
Aug-95	08/28/95	0.007	7.22	610	11																	
Sep-95	09/27/95	0.013	7.3	565	12	340			355	295 <	2	7	40	86.5	33.8	8.1	3.3	3.8	0.59	0.88	0.022	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
Count		4	4	4	4	3	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	
Minimum		0.007	7.02	565	10.2	330	ERR	ERR	321	295 <	2	3	40	77.7	30.9	2.3	3	-4.5	0.12	0.56	0.022	
Maximum		0.86	7.3	610	12	360	ERR	ERR	357	306 <	2	7	50	86.5	34.7	8.1	3.5	3.8	0.59	1.19	0.027	
Average		0.222	7.185	596.5	11.05	343.33	ERR	ERR	344.33	298.67 <	2	4.3333	43.333	83.267	33.133	4.2667	3.2667	1.0333	0.34	0.8767	0.0247	
Standard Deviation		0.3684	0.1023	18.31	0.6384	12.472	ERR	ERR	16.519	5.1854 <	0	1.8856	4.714	3.9533	1.6214	2.7109	0.2055	3.9127	0.193	0.2572	0.0021	
Avg. -1 Std. Dev.		-0.146	7.0827	578.19	10.412	330.86	ERR	ERR	327.81	293.48 <	2	2.4477	38.619	79.313	31.512	1.5558	3.0612	-2.879	0.147	0.6195	0.0226	

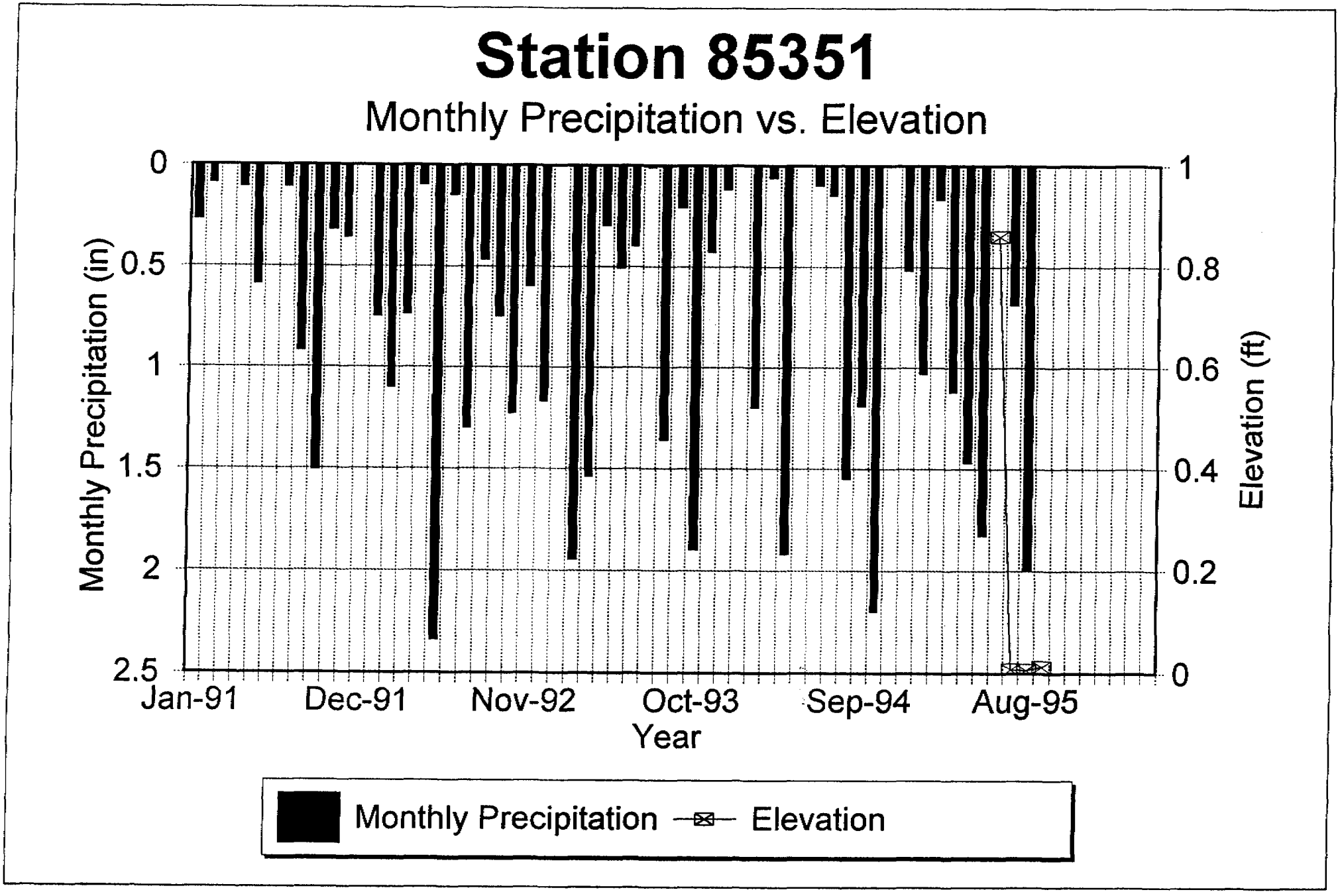
Cyprus Plateau Mining Company - Water Quality Data

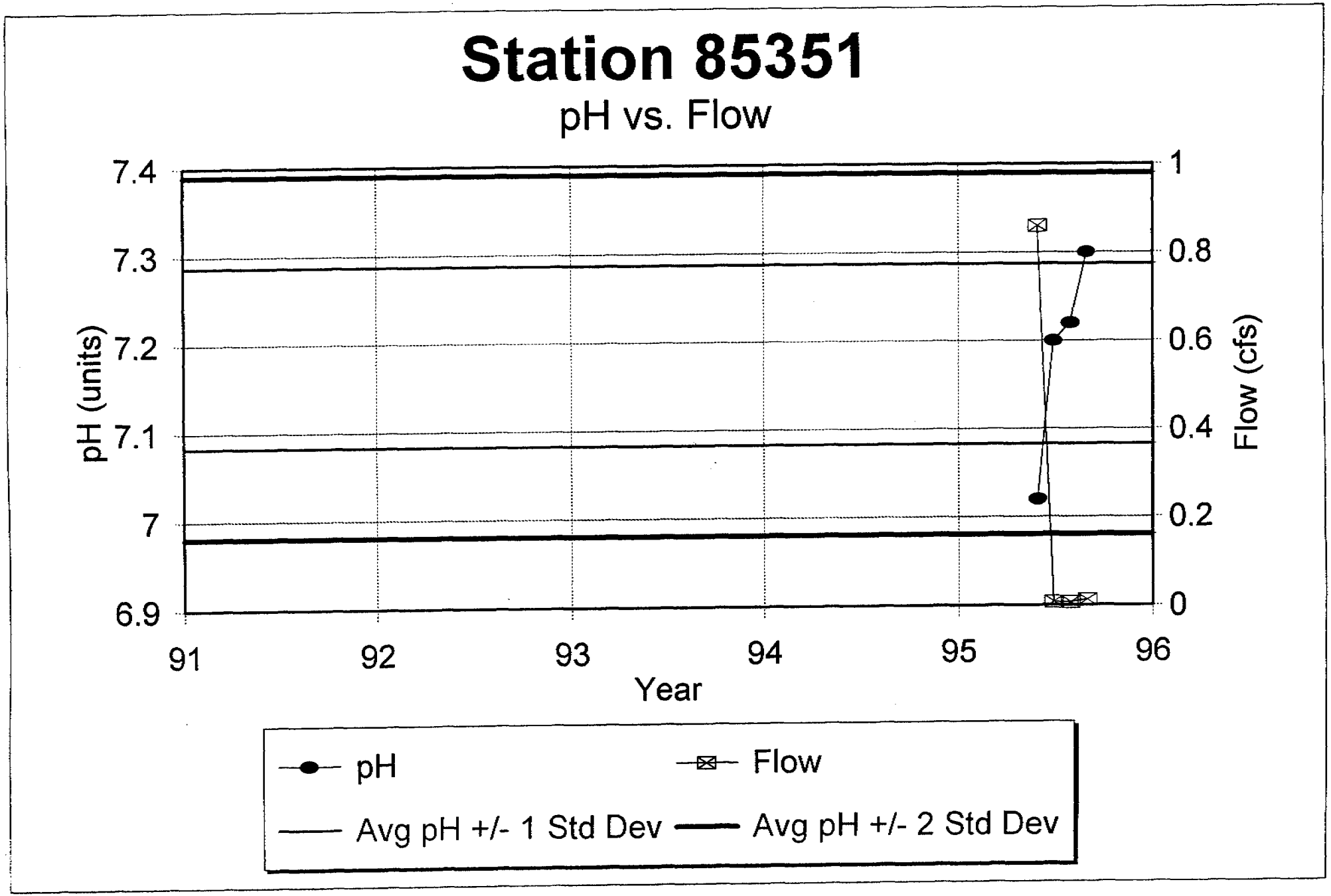
Print Date: May 8, 1996

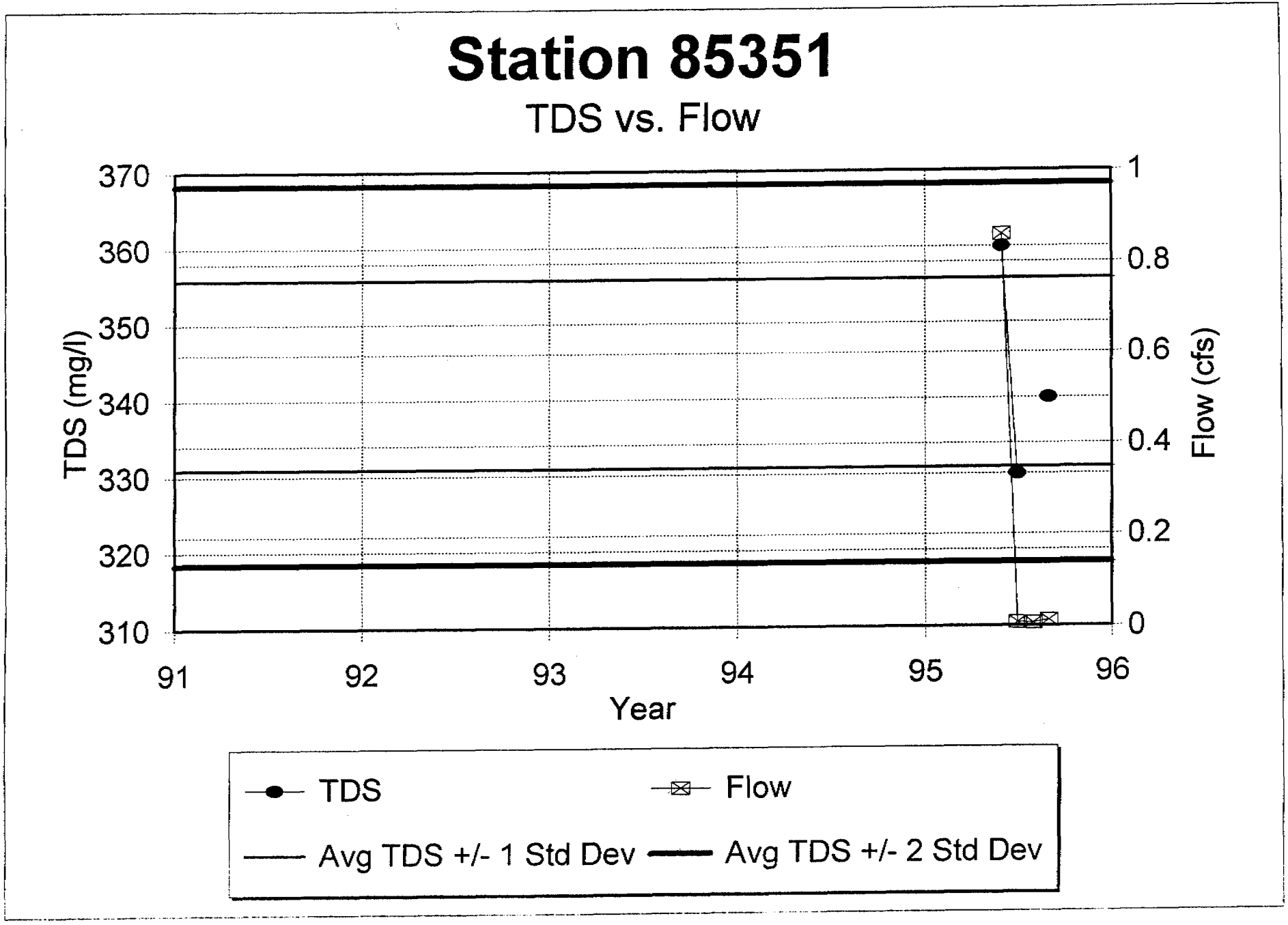
Station: 85351 Property: Star Point Location: 1500' N 625' E of SW corn. Sec 35, T15S, R7E Station Type: Sampling Frequency: Quarterly Formation: Elevation: 8040

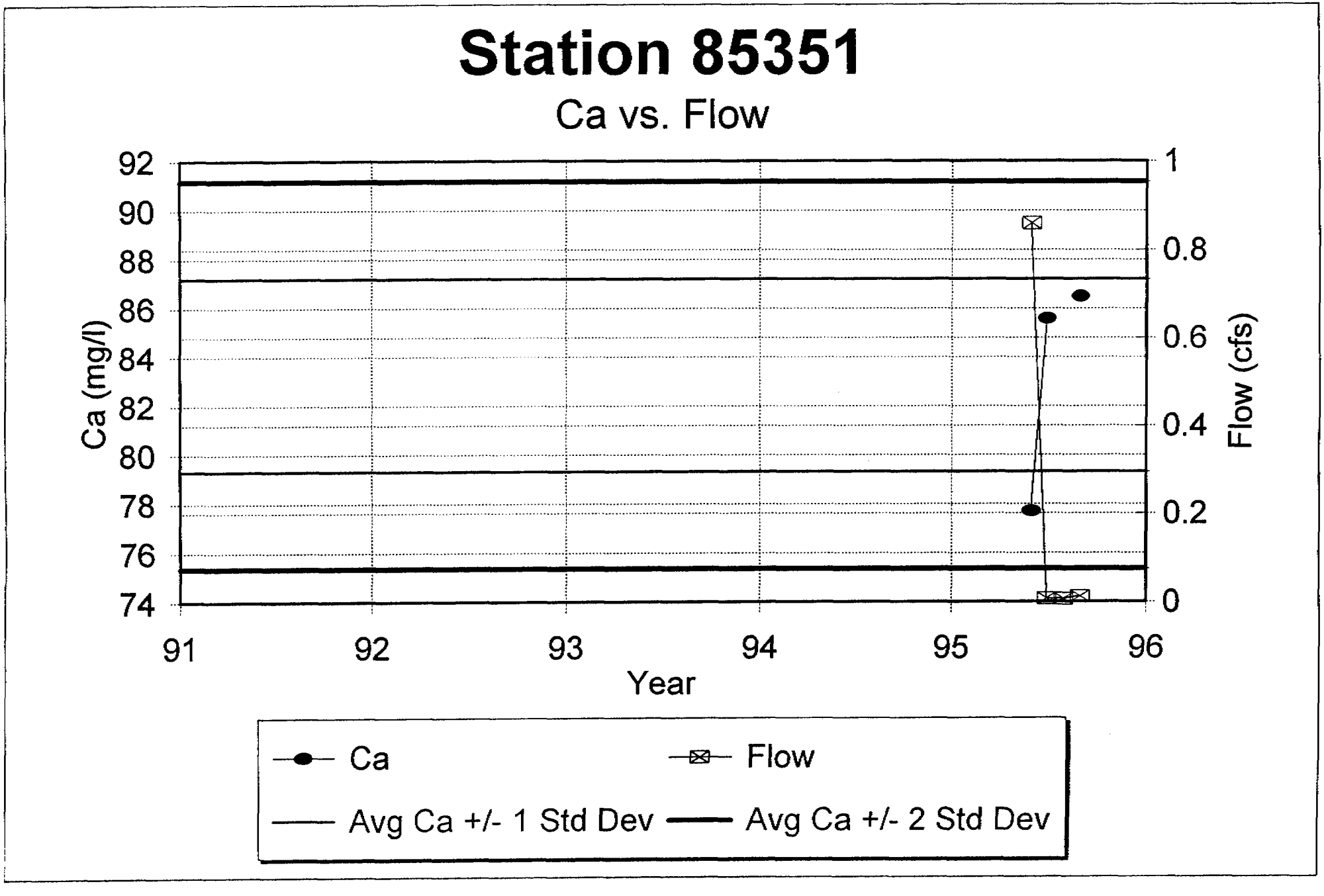
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Avg. +1 Std. Dev.		0.5904	7.2873	614.81	11.688	355.81	ERR	ERR	360.85	303.85	< 2	6.219	48.047	87.22	34.755	6.9776	3.4721	4.946	0.533	1.1339	0.0267	
Avg. -2 Std. Dev.		-0.515	6.9803	559.88	9.7733	318.39	ERR	ERR	311.29	288.3	< 2	0.5621	33.905	75.36	29.891	-1.155	2.8557	-6.792	-0.046	0.3623	0.0206	
Avg. +2 Std. Dev.		0.9587	7.3897	633.12	12.327	368.28	ERR	ERR	377.37	309.04	< 2	8.1046	52.761	91.173	36.376	9.6884	3.6776	8.8586	0.7261	1.3911	0.0288	

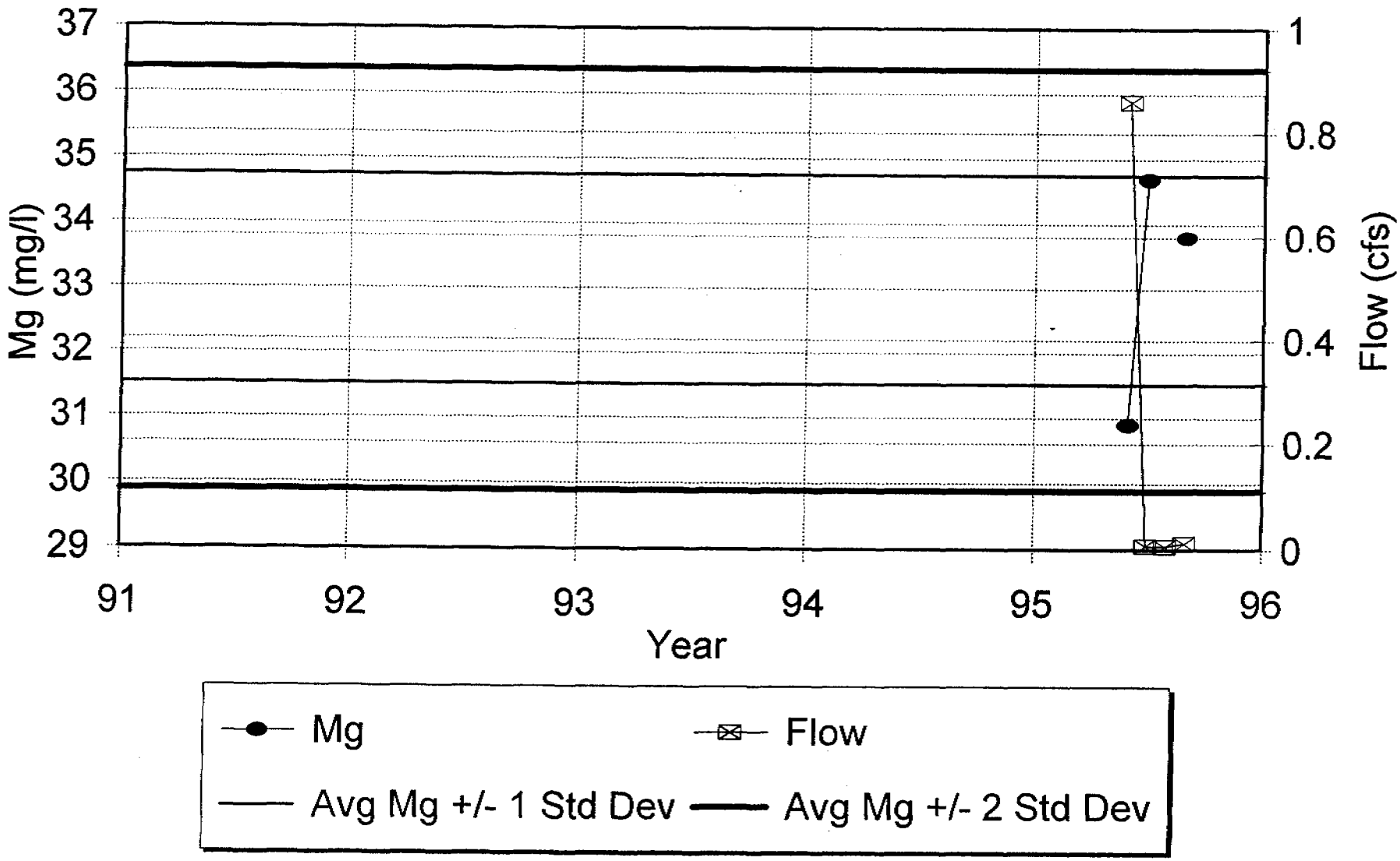
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

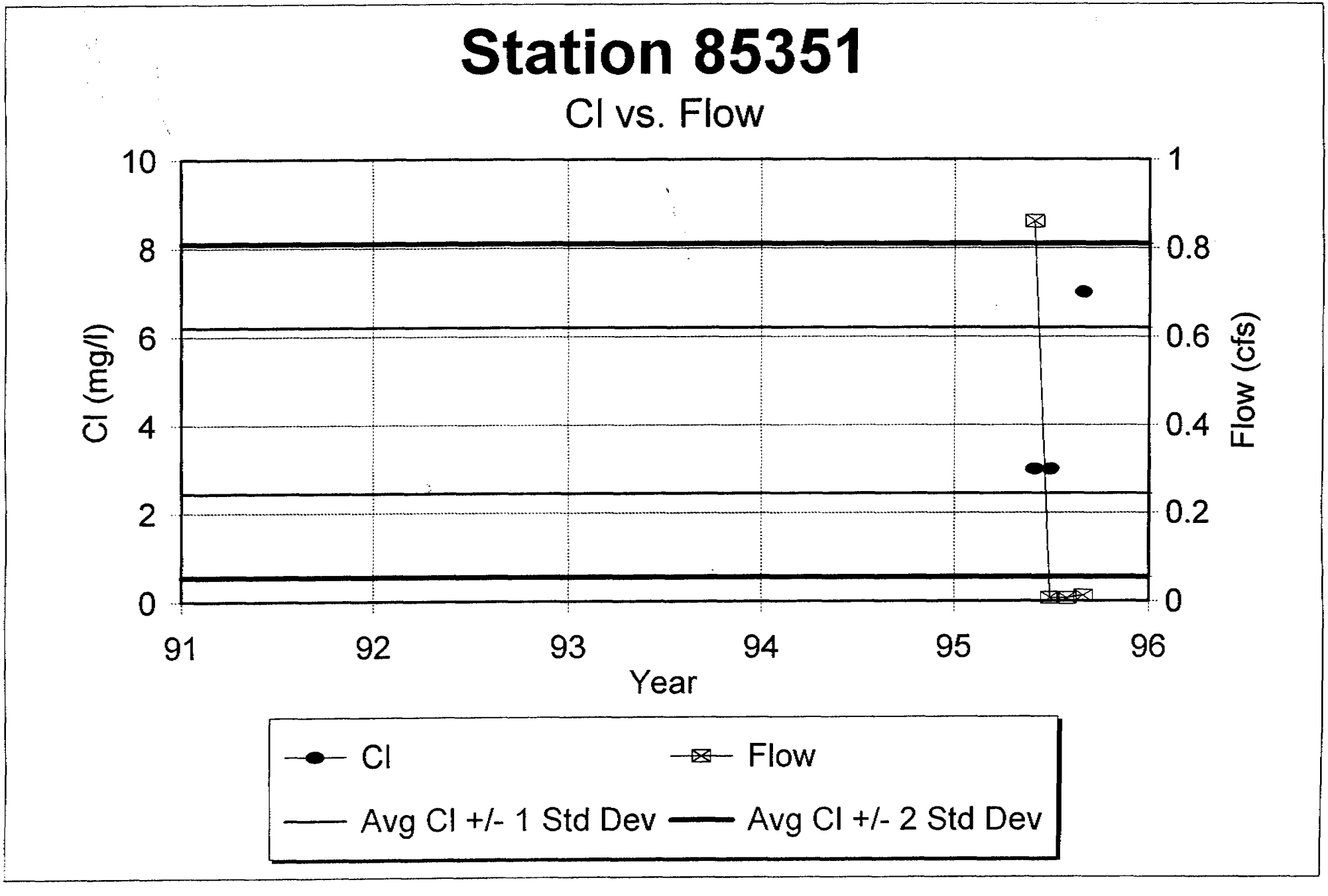

Station 85351
Monthly Precipitation vs. Elevation
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Elevation (ft)
1
0.8
0.6
0.4
0.2
0
Jan-91
Dec-91
Nov-92
Oct-93
Sep-94
Aug-95
Year
Monthly Precipitation
Elevation

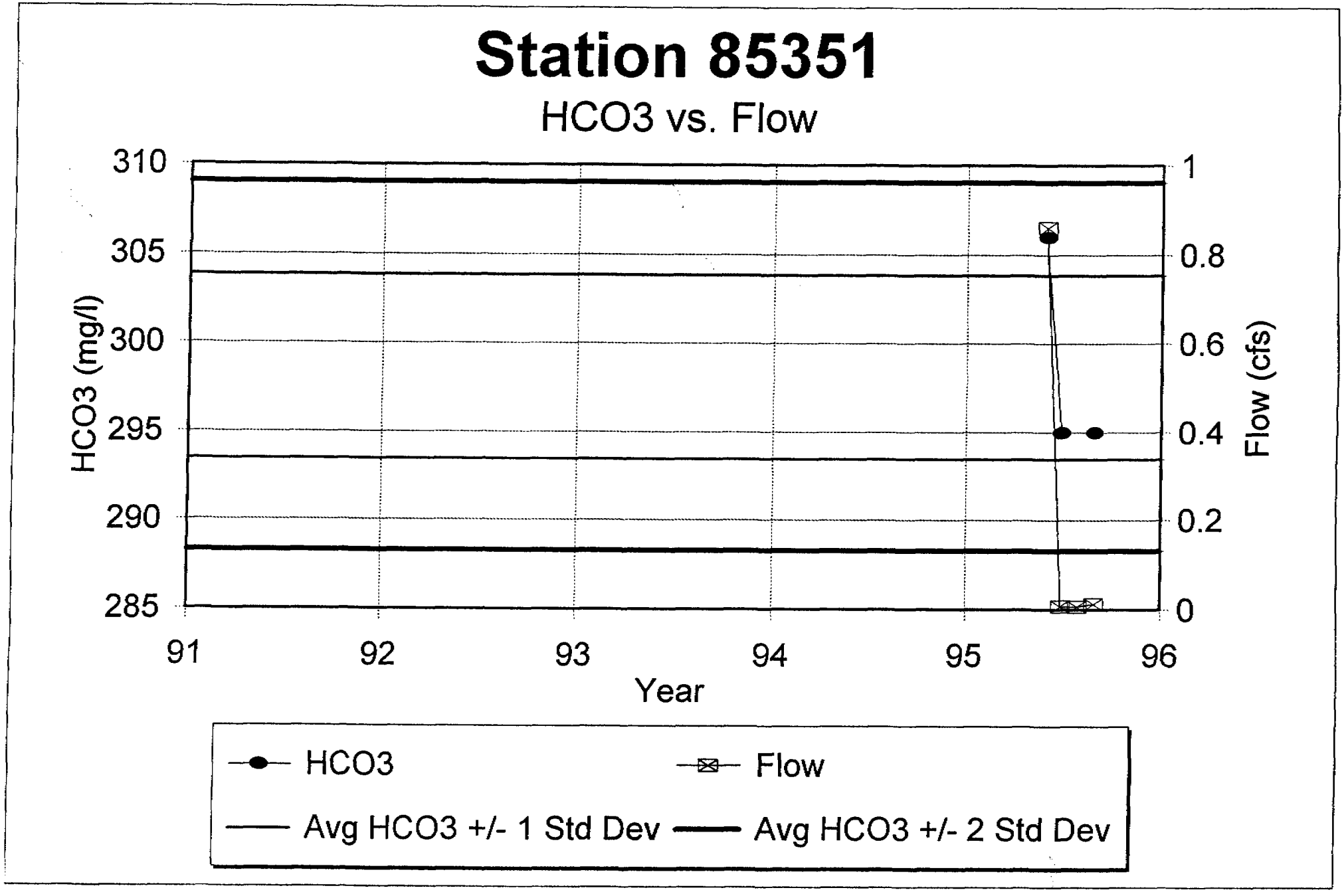

Station 85351
pH vs. Flow
7.4
7.3
7.2
7.1
7
6.9
pH (units)
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

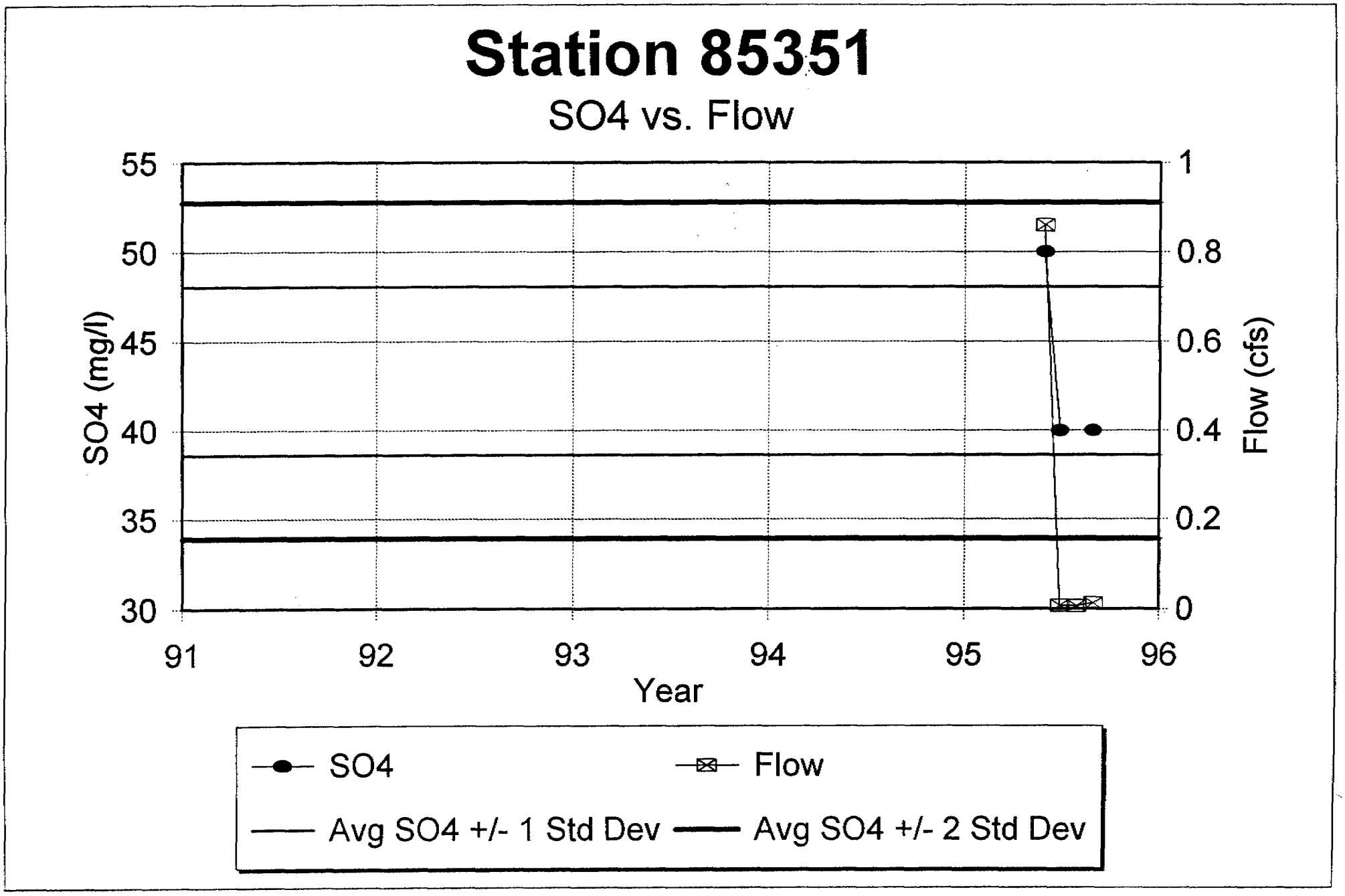

Station 85351
TDS vs. Flow
370
360
350
340
330
320
310
TDS (mg/l)
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 85351
Ca vs. Flow
Ca (mg/l)
92
90
88
86
84
82
80
78
76
74
Flow (cfs)
1
0.8
0.6
0.4
0.2
0
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev

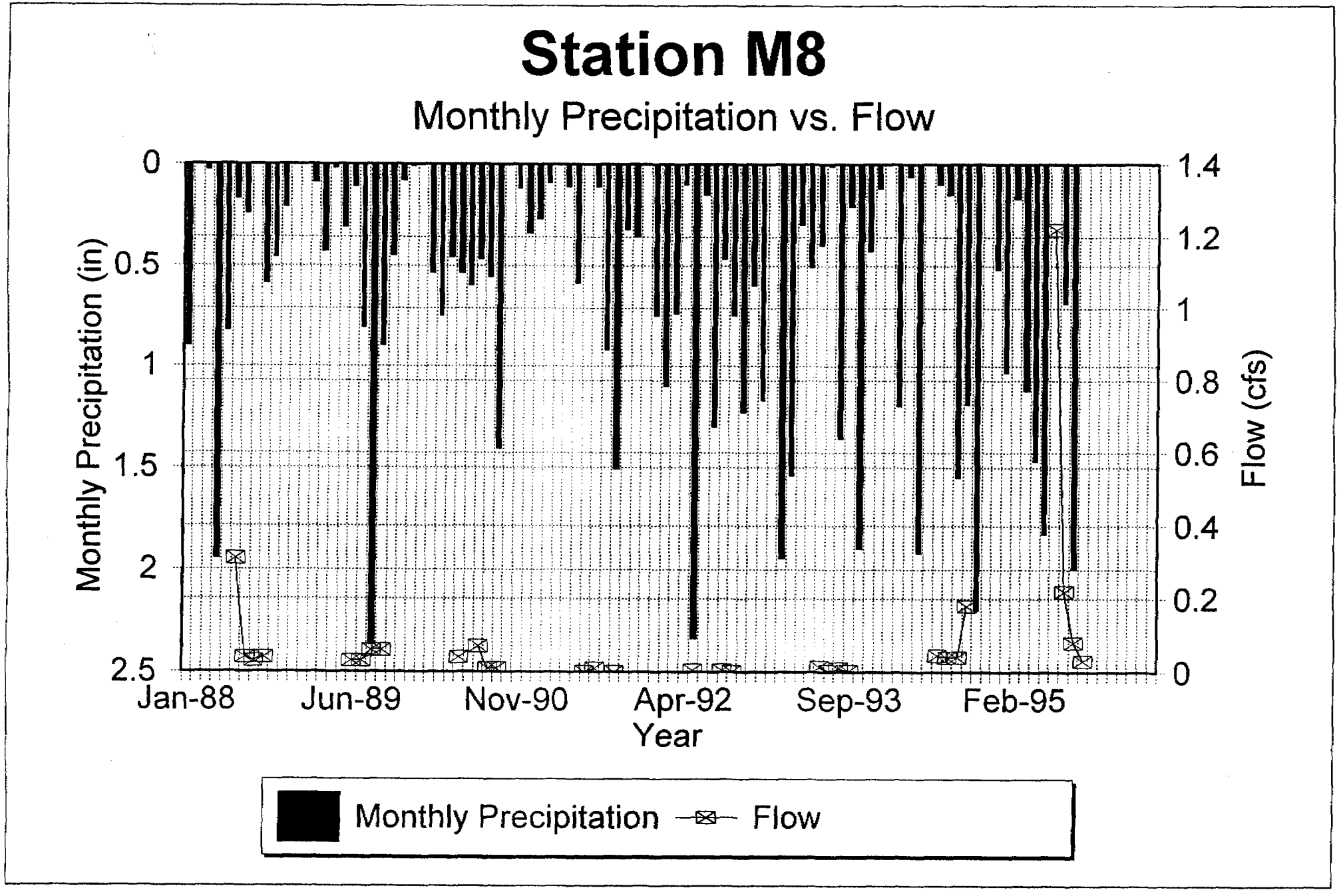

Station 85351
Mg vs. Flow
Mg (mg/l)
37
36
35
34
33
32
31
30
29
Flow (cfs)
1
0.8
0.6
0.4
0.2
0
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev

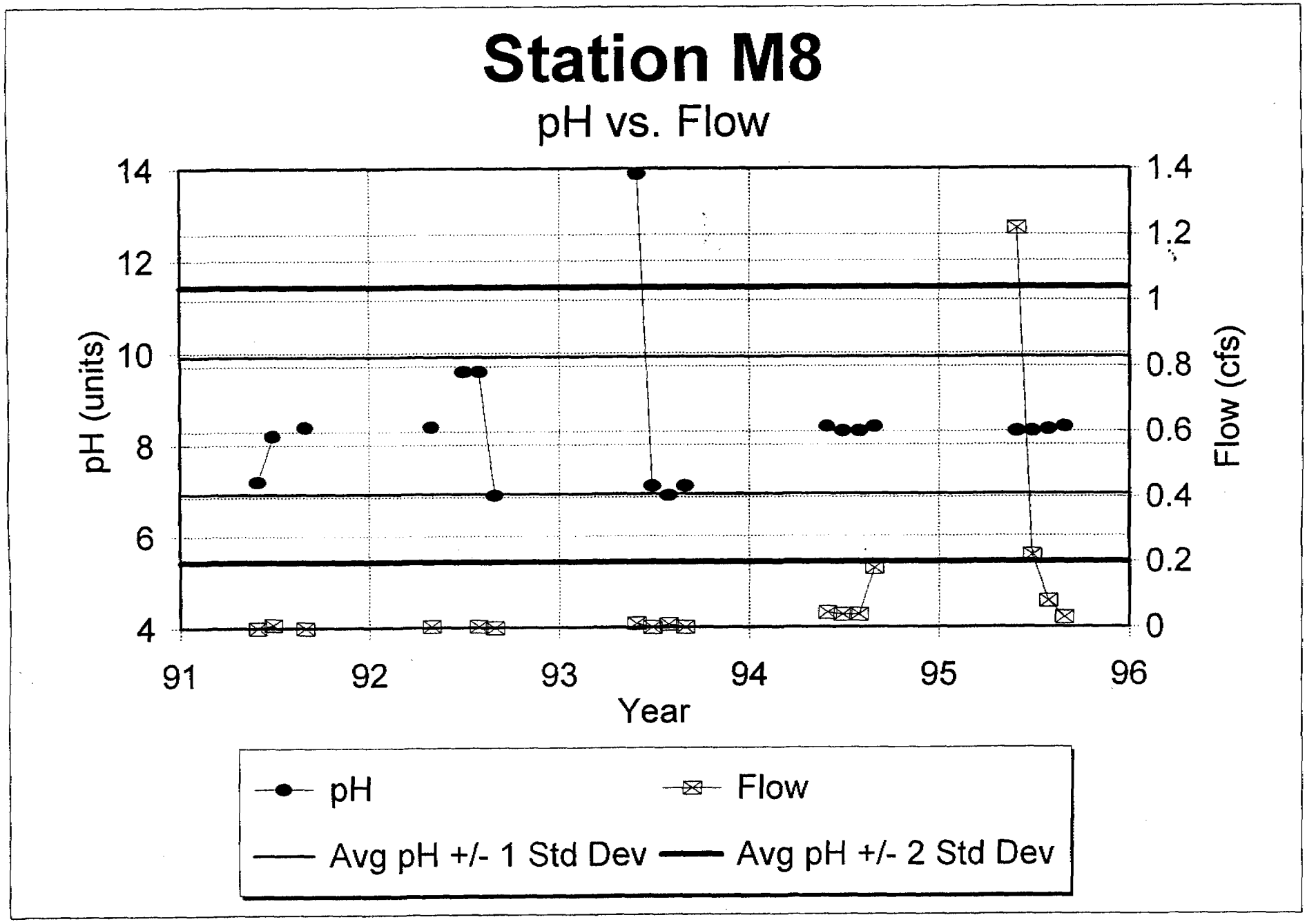

Station 85351
Cl vs. Flow
Cl (mg/l)
10
8
6
4
2
0
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

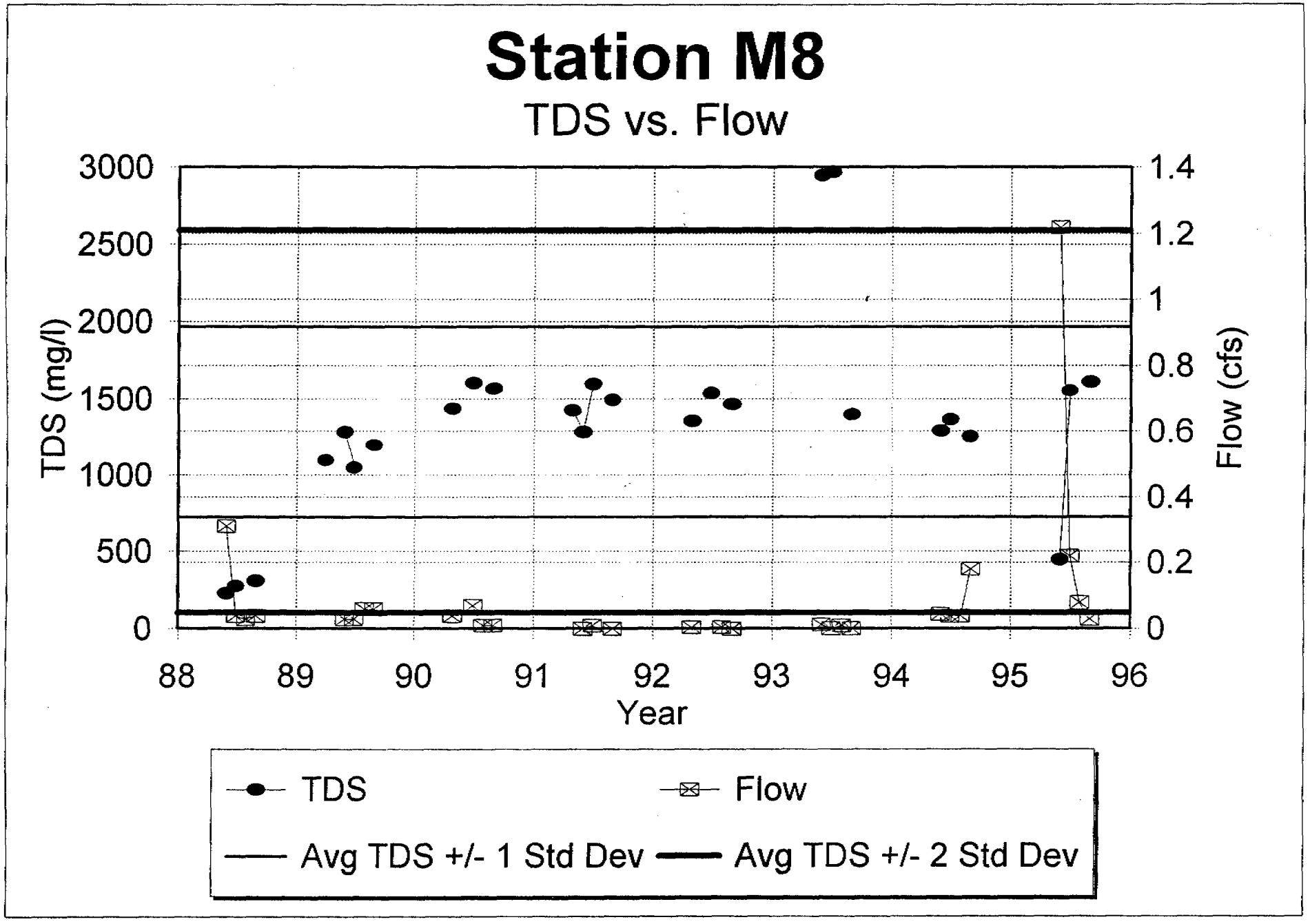

Station 85351
HCO3 vs. Flow
310
305
300
295
290
285
HCO3 (mg/l)
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

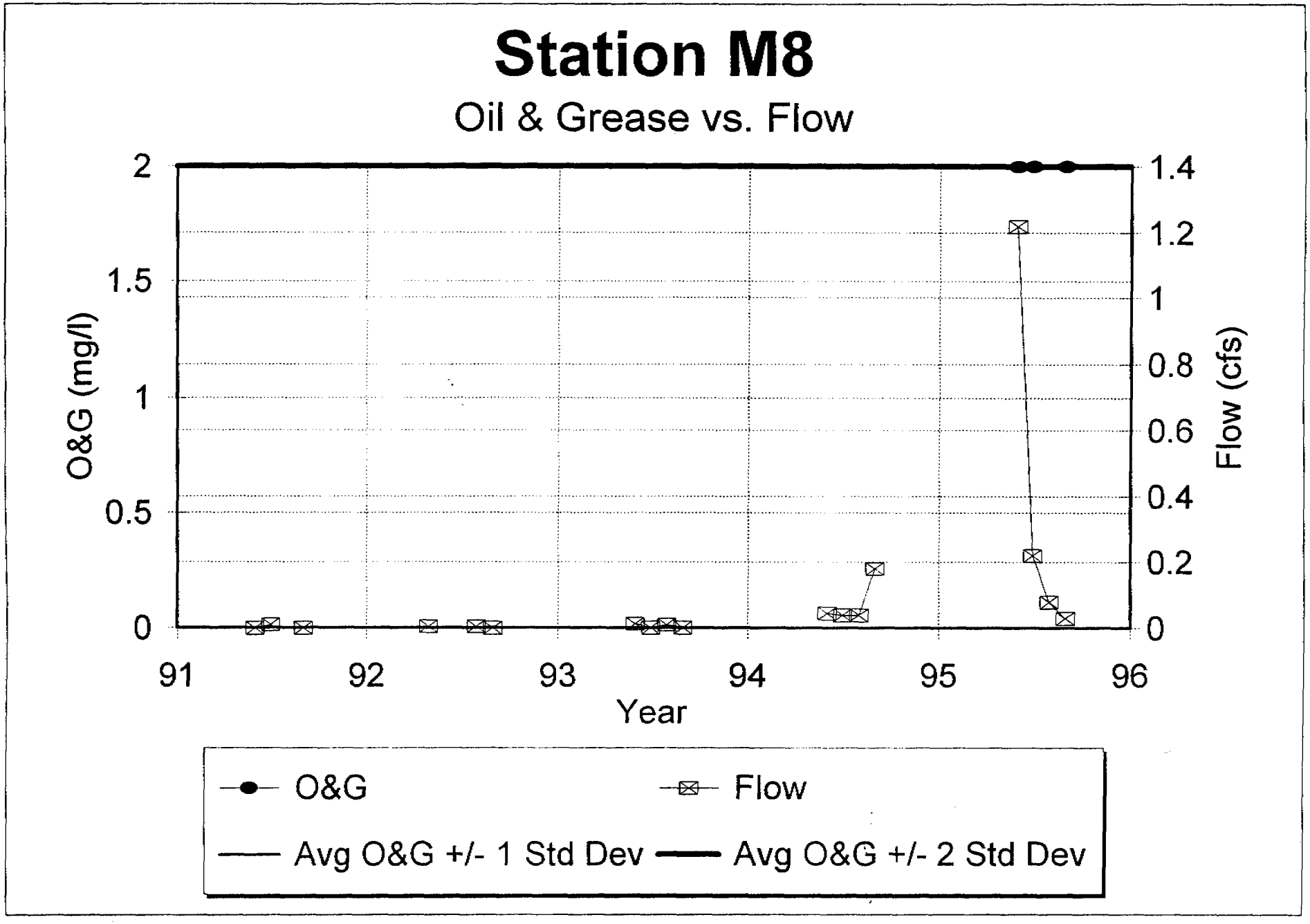

Station 85351
SO4 vs. Flow
55
50
45
40
35
30
SO4 (mg/l)
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

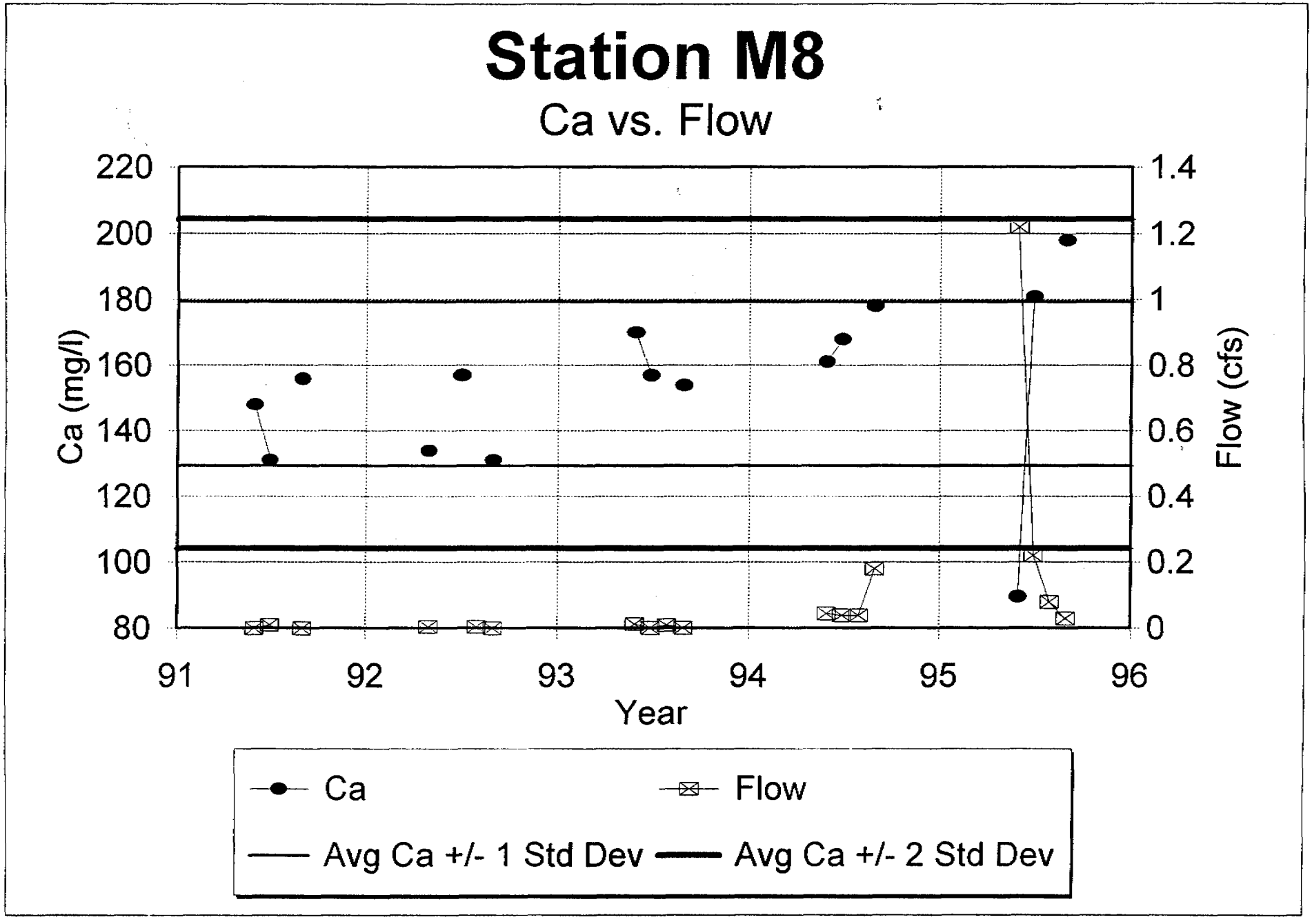
APPENDIX C
SURFACE WATER

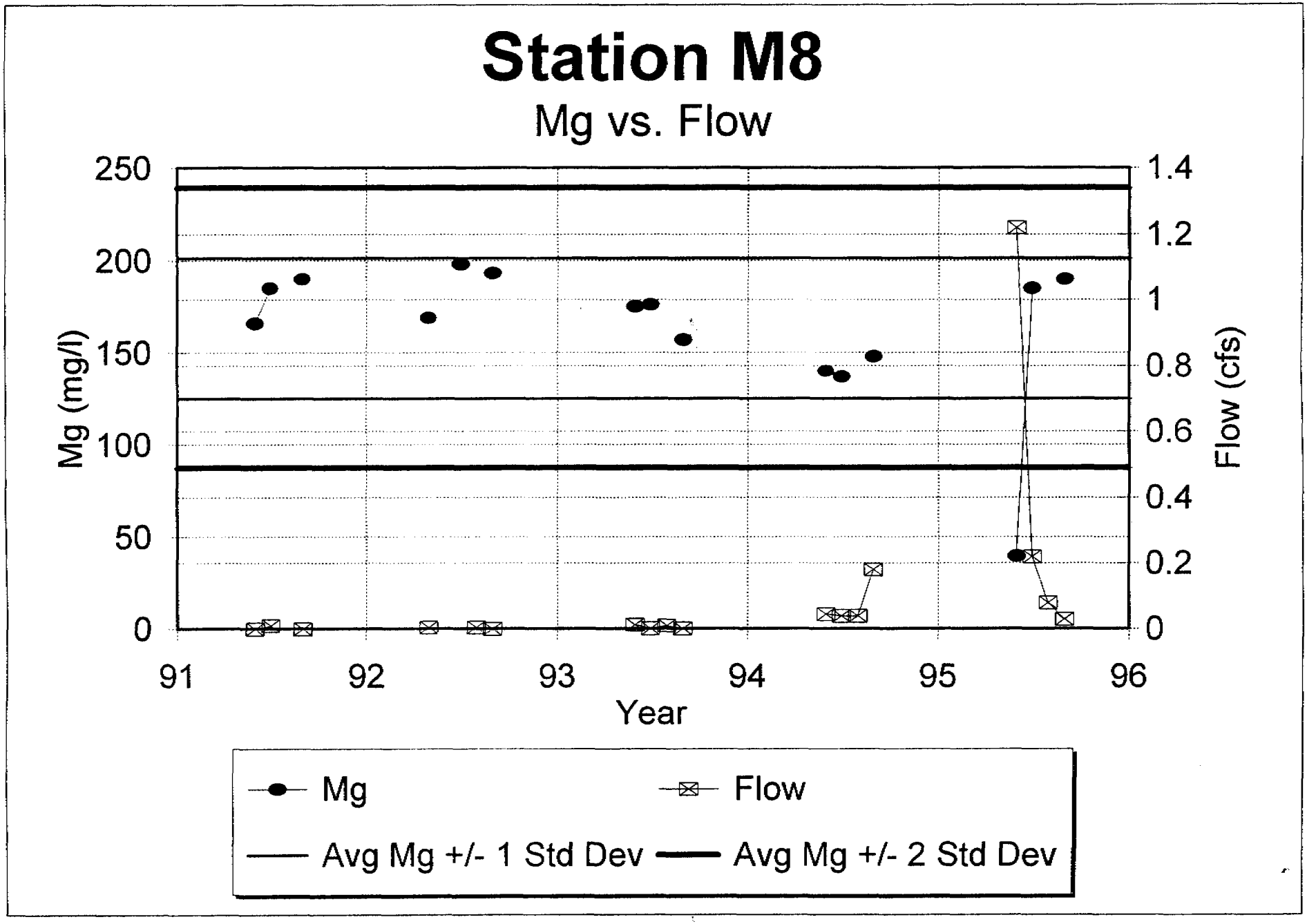

Station M8
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Flow (cfs)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Jan-88
Jun-89
Nov-90
Apr-92
Sep-93
Feb-95
Year
Monthly Precipitation
Flow

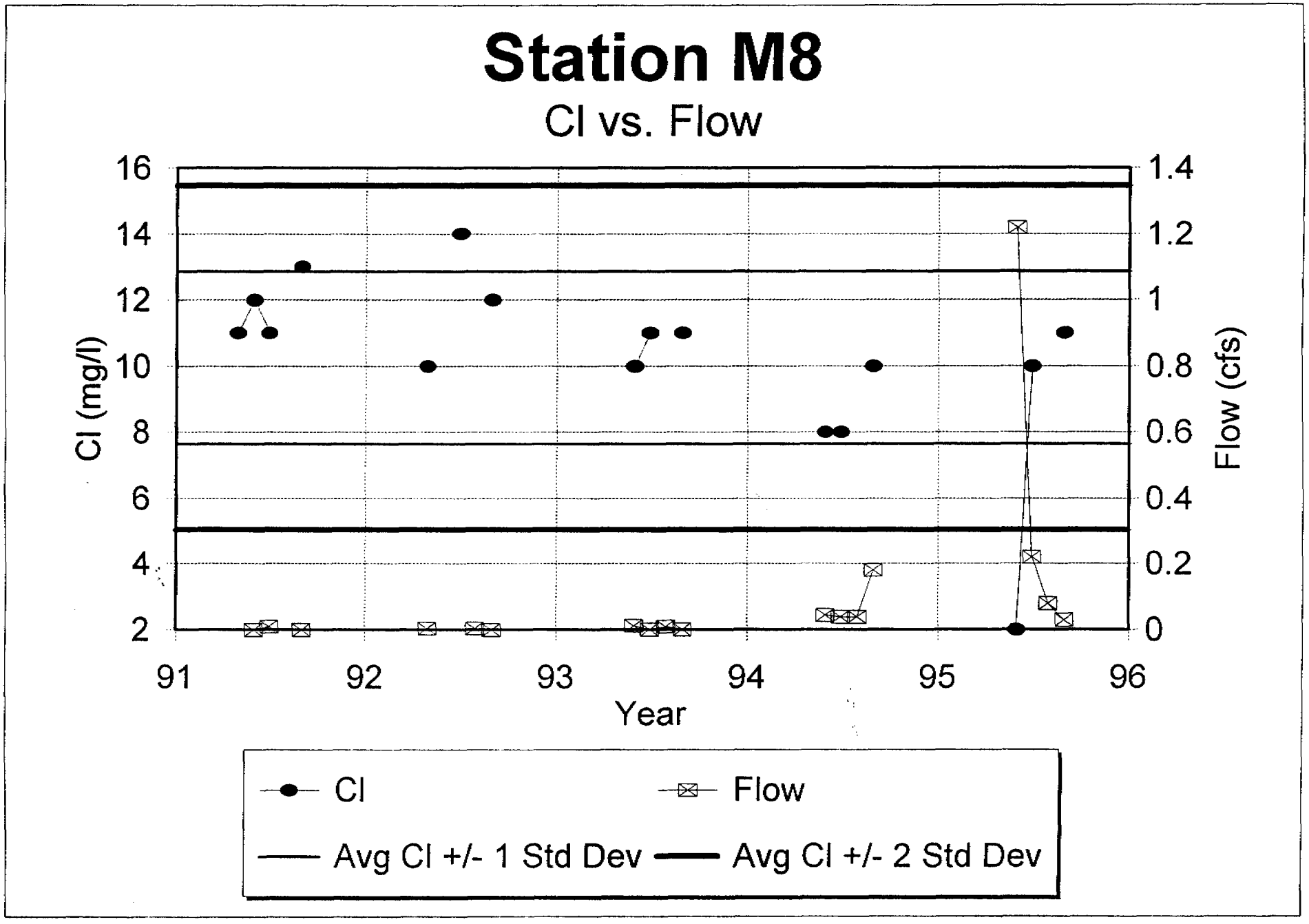

Station M8
pH vs. Flow
pH (units)
14
12
10
8
6
4
Flow (cfs)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

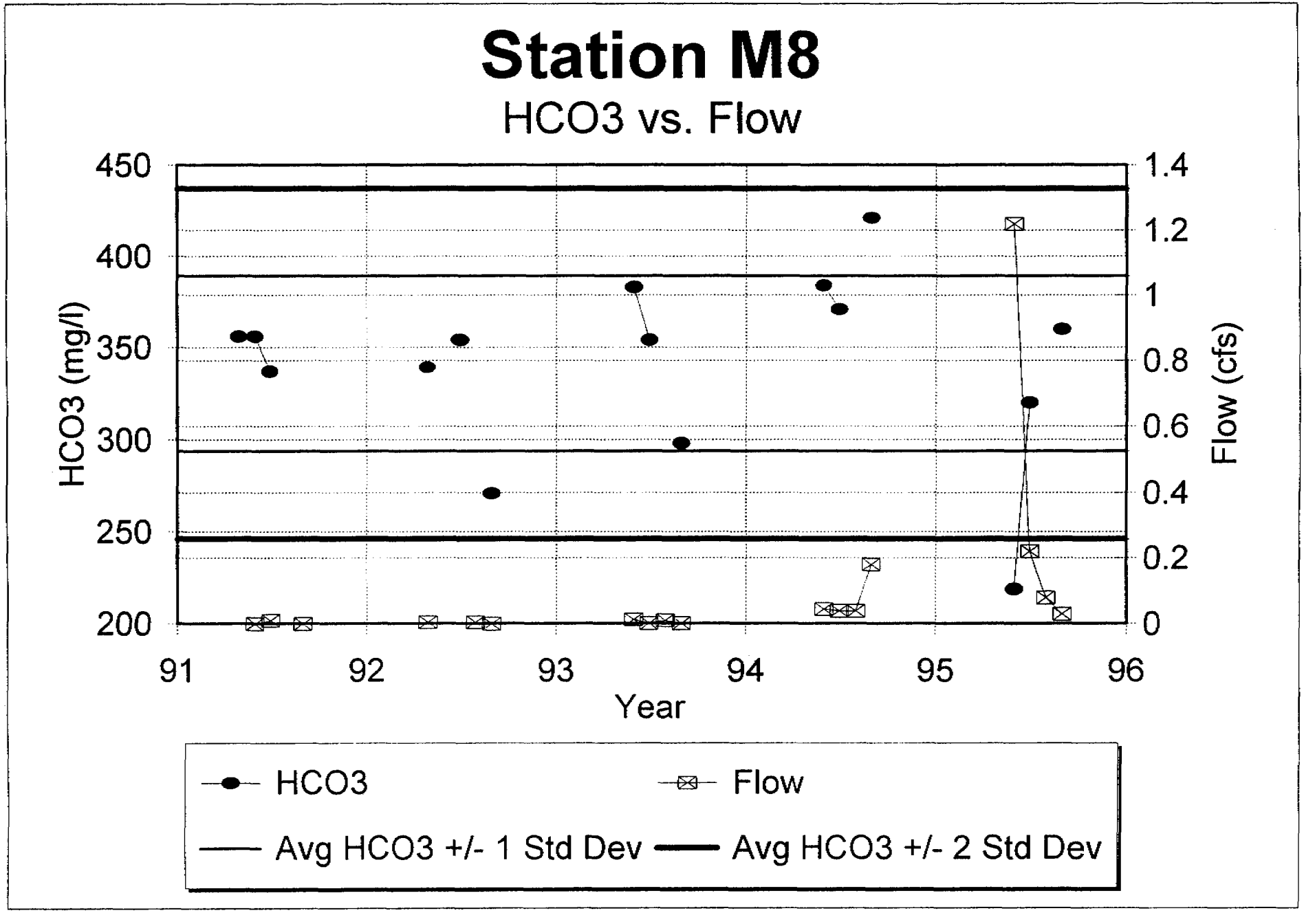

Station M8
TDS vs. Flow
TDS (mg/l)
3000
2500
2000
1500
1000
500
0
Flow (cfs)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
88
89
90
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station M8
Oil & Grease vs. Flow
O&G (mg/l)
Flow (cfs)
Year
2
1.5
1
0.5
0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
91
92
93
94
95
96
O&G
Flow
Avg O&G +/- 1 Std Dev
Avg O&G +/- 2 Std Dev


Station M8
Ca vs. Flow
220
200
180
160
140
120
100
80
Ca (mg/l)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station M8
Mg vs. Flow
250
200
150
100
50
0
Mg (mg/l)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station M8
Cl vs. Flow
Cl (mg/l)
16
14
12
10
8
6
4
2
Flow (cfs)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
91
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station M8
HCO3 vs. Flow
450
400
350
300
250
200
HCO3 (mg/l)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 26, 1996

Station: M8 | Property: Star Point | Location: 2400' N 250' W of SE corn. Sec 18, T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 8300

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/08/94	0.045	8.4	1640	13.6	1290				384	0	8	694	161	140	10	8		0.03 <	0.02 <	0.01	
Jul-94	07/20/94	0.04	8.3	1500	13.3	1364				371	12	8	714	168	137	10	9		0.02 <	0.02 <	0.01	
Aug-94	08/31/94	0.04	8.3	1365	15																	RAIN IN A.M. = ~.10". LO
Sep-94	09/21/94	0.18	8.4	1515	15	1250				421	0	10	671	178	148	12	10		0.05	0.04 <	0.01	
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95	1.22	8.3	751	4.8	450	6 <	2	386	219 <	2	2	160	89.6	39.5	1.9	2.3	0.3	0.02	0.06 <	0.005	
Jul-95	07/27/95	0.22	8.3	1800	18	1550	10 <	2	1210	320 <	2	10	910	181	185	7.6	9.2	-1.9 <	0.01 <	0.01 <	0.005	
Aug-95	08/23/95	0.08	8.34	1282	10																	New ph probe and calibrat
Sep-95	09/28/95	0.03	8.4	1220	7.61	1610	26 <	2	1280	360 <	2	11	800	198	190	8.2	9.3	3.6 <	0.01	0.08	0.01	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
	Count	30	19	19	19	26	3	3	3	15	15	16	16	15	15	15	15	3	16	16	13	
	Minimum	0	6.9	1	4.8	230	6 <	2	386	219 <	0	2	160	89.6	39.5	1.9	2.3	-1.9 <	0.01 <	0.01 <	0.005	
	Maximum	1.22	13.9	3480	18	2972	26 <	2	1280	421 <	17	14	910	198	198	12	32	3.6 <	0.05 <	0.08 <	0.01	
	Average	0.0878	8.4232	1396.1	12.516	1348.7	14 <	2	958.67	341.53 <	6.2667	10.25	769.38	154.24	163.23	7.1133	11.853	0.6667 <	0.0213 <	0.0269 <	0.0092	
	Standard Deviation	0.2211	1.496	780.78	3.766	621.54	8.641 <	0	405.94	47.716 <	5.9941	2.6101	172.24	25.039	37.971	2.3183	7.5802	2.2603 <	0.0086 <	0.0176 <	0.0018	
	Avg. -1 Std. Dev.	-0.133	6.9271	615.31	8.7504	725.15	5.359 <	2	552.72	293.82 <	0.2726	7.6399	597.14	129.2	125.26	4.795	4.2731	-1.594 <	0.0127 <	0.0093 <	0.0074	
	Avg. +1 Std. Dev.	0.3089	9.9192	2176.9	16.282	1968.2	22.641 <	2	1364.6	389.25 <	12.261	12.86	941.61	179.28	201.2	9.4316	19.434	2.927 <	0.0298 <	0.0445 <	0.011	
	Avg. -2 Std. Dev.	-0.355	5.4311	-165.5	4.9844	103.61	-3.282 <	2	146.78	246.1 <	-5.721	5.0298	424.9	104.16	87.292	2.4767	-3.307	-3.854 <	0.0041 <	-0.008 <	0.0056	
	Avg. +2 Std. Dev.	0.53	11.415	2957.6	20.048	2589.8	31.282 <	2	1770.6	436.96 <	18.255	15.47	1113.9	204.32	239.17	11.75	27.014	5.1872 <	0.0384 <	0.062 <	0.0128	

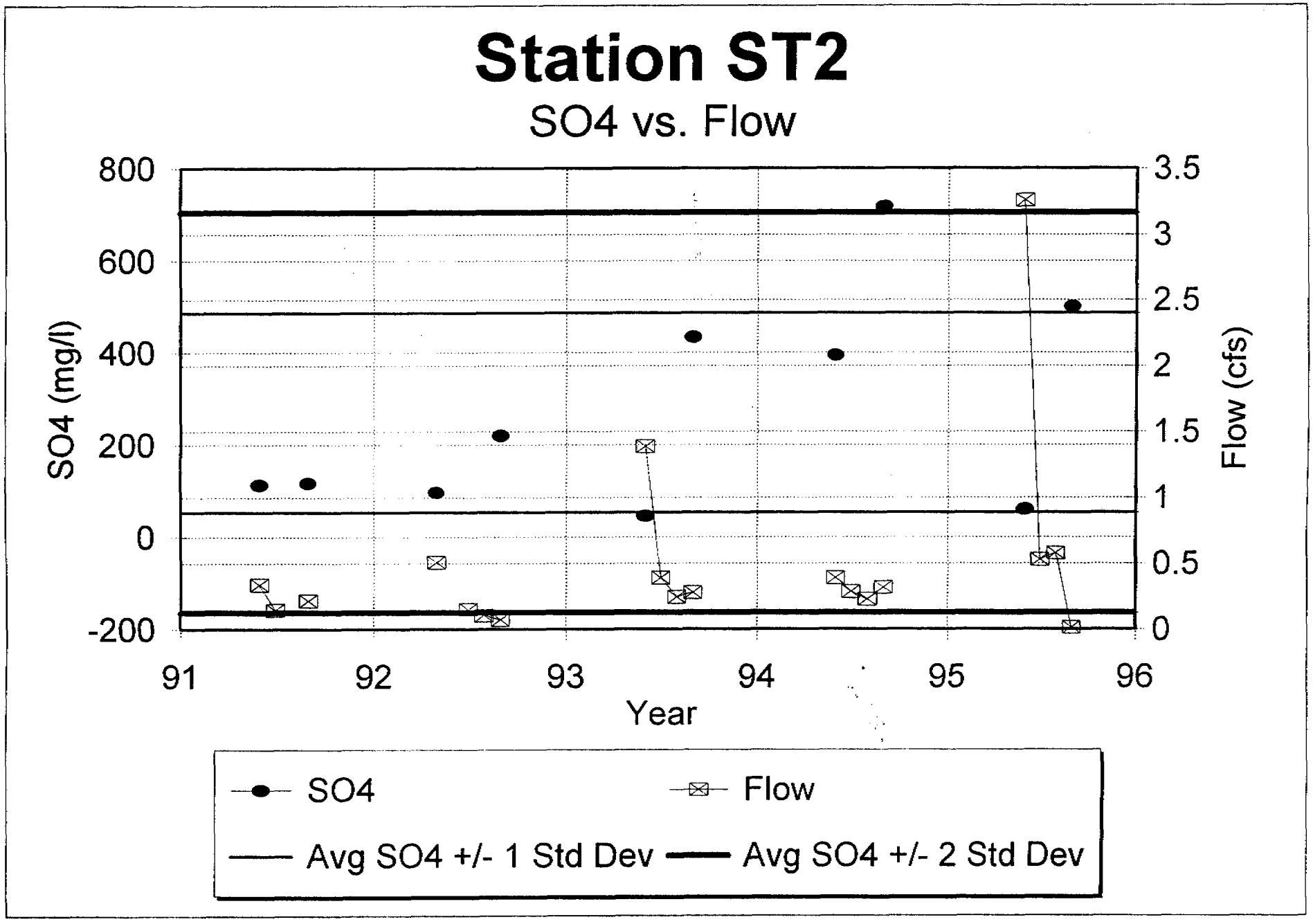
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

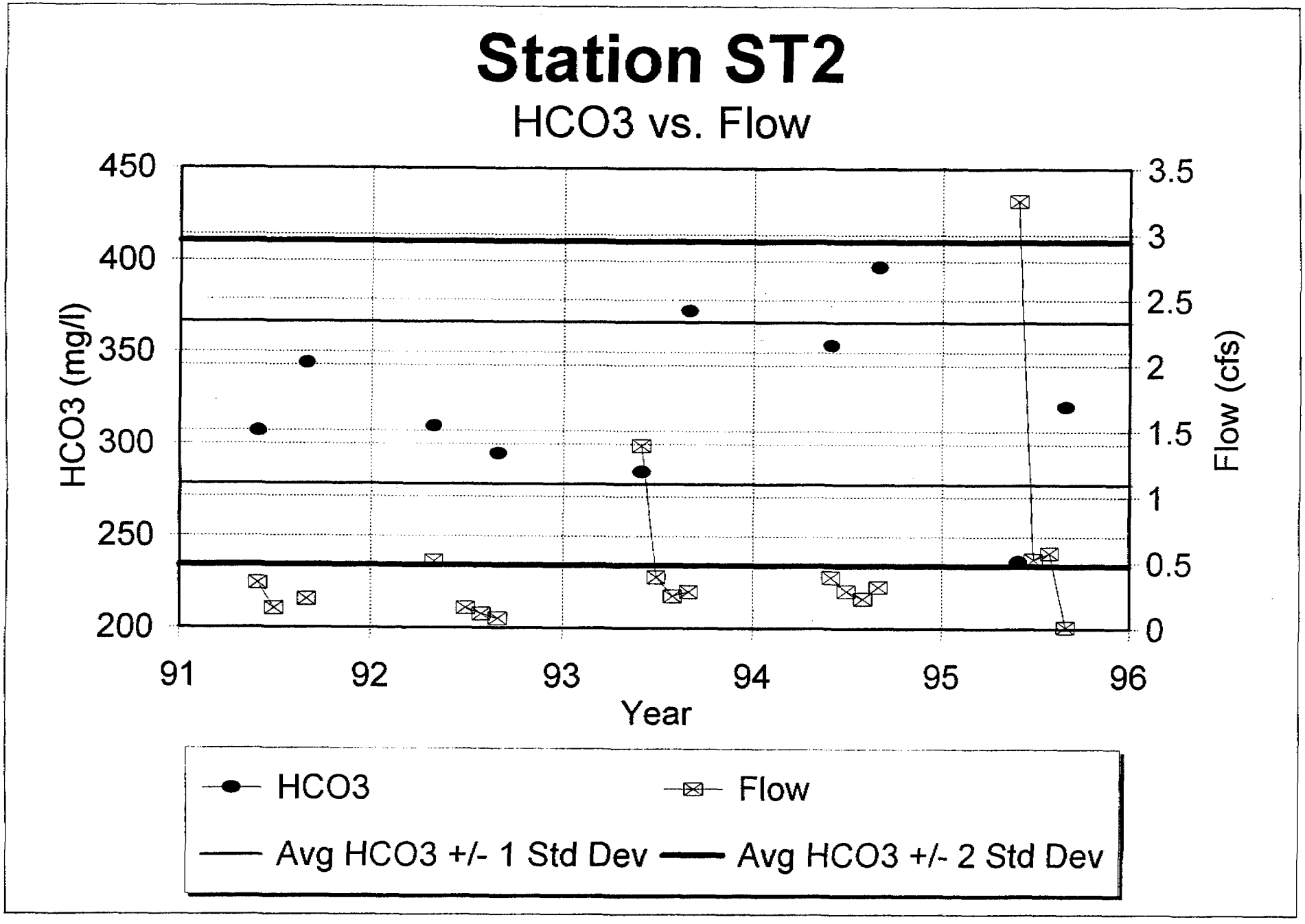
Cyprus Plateau Mining Company - Water Quality Data

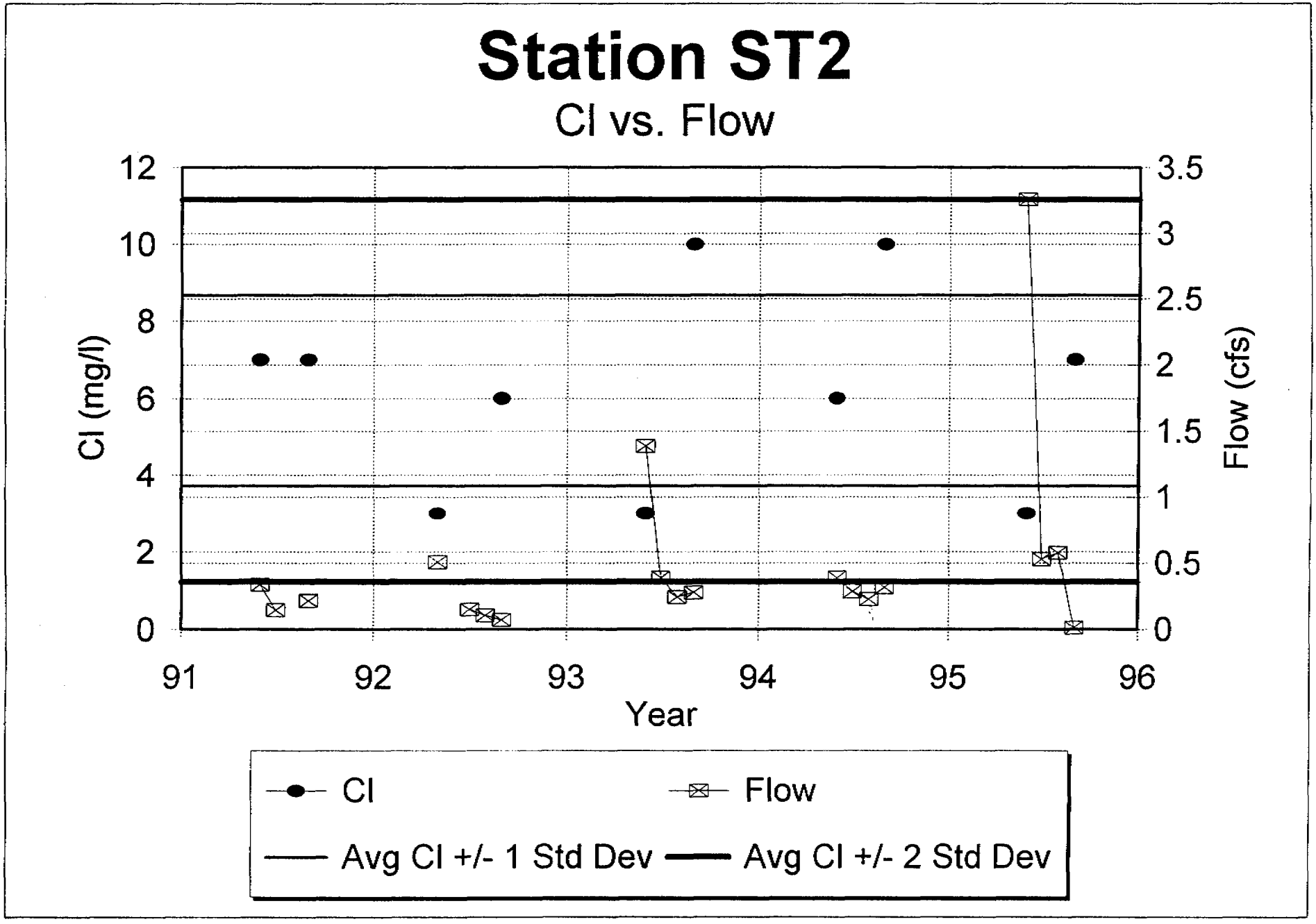
Print Date: April 26, 1996

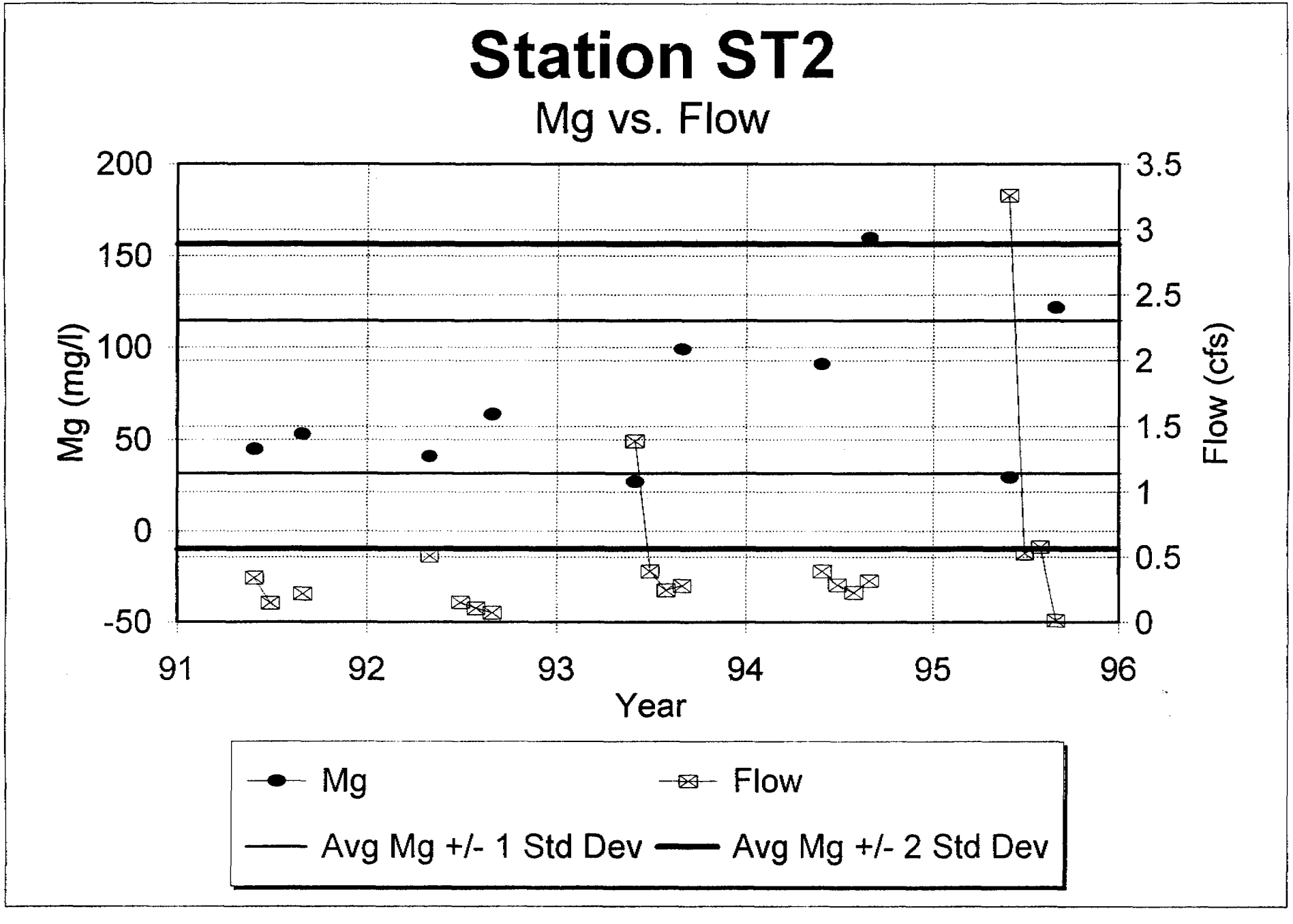
Station: M8 | Property: Star Point | Location: 2400' N 250' W of SE corn. Sec 18, T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 8300

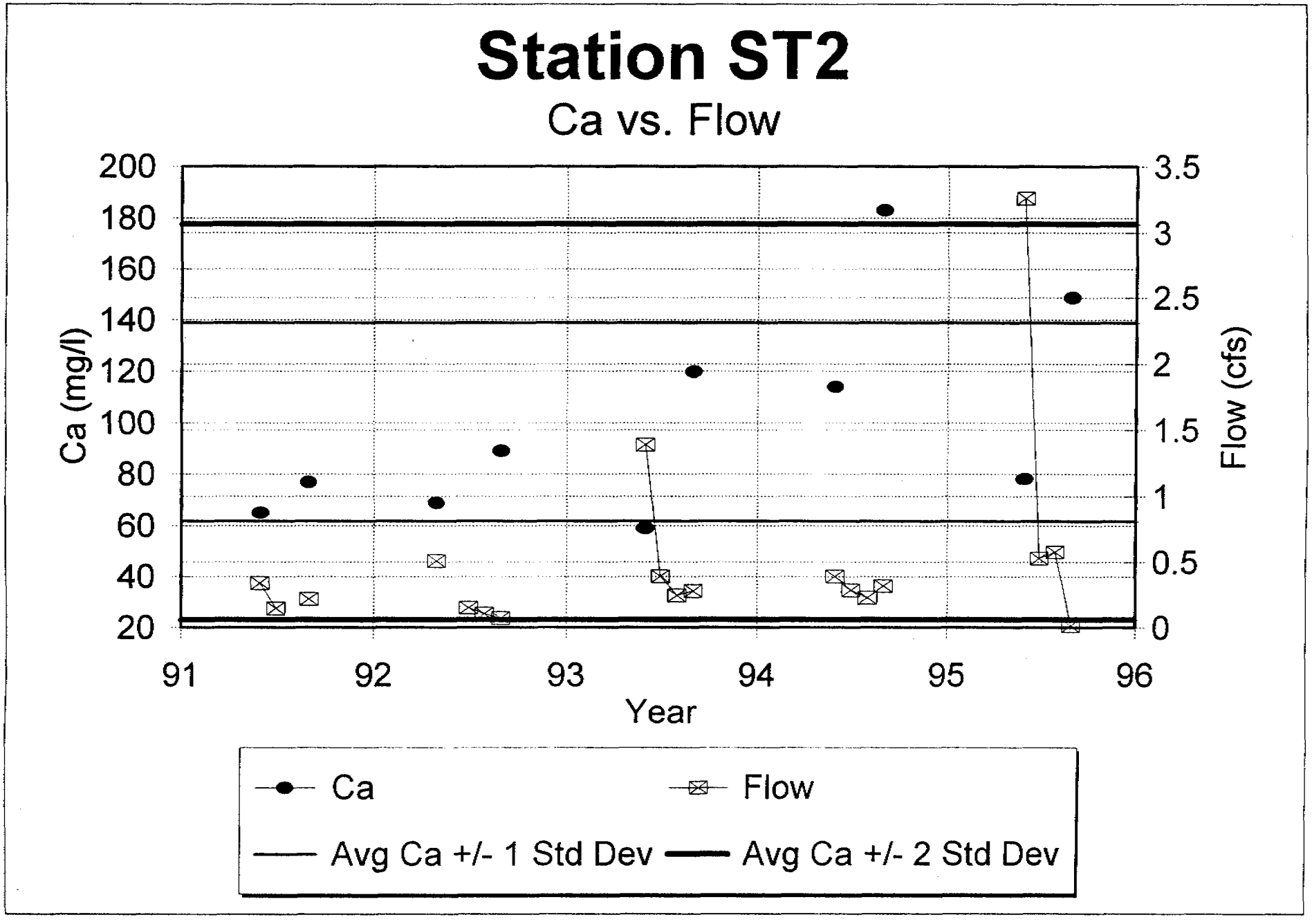
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-88																							
Feb-88																							
Mar-88																							
Apr-88																							
May-88																							
Jun-88	06/01/88	0.31				230																	
Jul-88	07/15/88	0.04				276																	
Aug-88	08/13/88	0.03																					
Sep-88	09/30/88	0.04				310																	
Oct-88																							
Nov-88																							
Dec-88																							
Jan-89																							
Feb-89																							
Mar-89																							
Apr-89	04/27/89					1098																	FLOW NOT MEASURED
May-89																							
Jun-89	06/06/89	0.03				1280																	
Jul-89	07/03/89	0.03				1050																	
Aug-89	08/22/89	0.06																					
Sep-89	09/15/89	0.06				1196																	
Oct-89																							
Nov-89																							
Dec-89																							
Jan-90																							
Feb-90																							
Mar-90																							
Apr-90																							
May-90	05/30/90	0.04				1434																	
Jun-90																							
Jul-90	07/04/90	0.07				1602																	
Aug-90	08/22/90	0.01																					
Sep-90	09/18/90	0.01				1566																	
Oct-90																							
Nov-90																							
Dec-90																							
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91	05/15/91					1424				356	10	11	753					<	0.02 <	0.02 <	0.01		
Jun-91	06/12/91	0	7.2	1760	15	1280				356		12	803	148	166	6	32	<	0.02 <	0.02 <	0.01		
Jul-91	07/16/91	0.01	8.2	1660	17	1594				337	5	11	868	131	185	7	11	<	0.02 <	0.02 <	0.01		
Aug-91																							
Sep-91	09/17/91	0	8.4	1740	10	1492					12	13	862	156	190	6	29	<	0.02 <	0.02 <	0.01		
Oct-91																							
Nov-91																							
Dec-91																							
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92																							
May-92	05/20/92	0.0049	8.4	1.6	10.3	1352				339	10	10	770	134	169	6	10	<	0.02 <	0.02			
Jun-92																							
Jul-92			9.6	1	8.5	1536				354	5	14	883	157	198	5	9	<	0.02 <	0.02			
Aug-92	08/27/92	0.005	9.6	1740	11.7																		
Sep-92	09/21/92	0.001	6.9	2	12.8	1464				271	17	12	883	131	193	7	10	<	0.02 <	0.02			
Oct-92																							
Nov-92																							
Dec-92																							
Jan-93																							
Feb-93																							
Mar-93																							
Apr-93																							
May-93																							
Jun-93	06/21/93	0.013	13.9	3480	18	2948				383	17	10	823	170	175	6	9	<	0.02 <	0.02 <	0.01		
Jul-93	07/07/93	0.002	7.1	1690	17.9	2972				354	0	11	864	157	176	6	10	<	0.02 <	0.02 <	0.01		
Aug-93	08/18/93	0.01	6.9	1700	8																		
Sep-93	09/27/93	0.002	7.1	1678	11.3	1396				298	0	11	852	154	157	8	10	<	0.02 <	0.02 <	0.01		
Oct-93																							
Nov-93																							
Dec-93																							

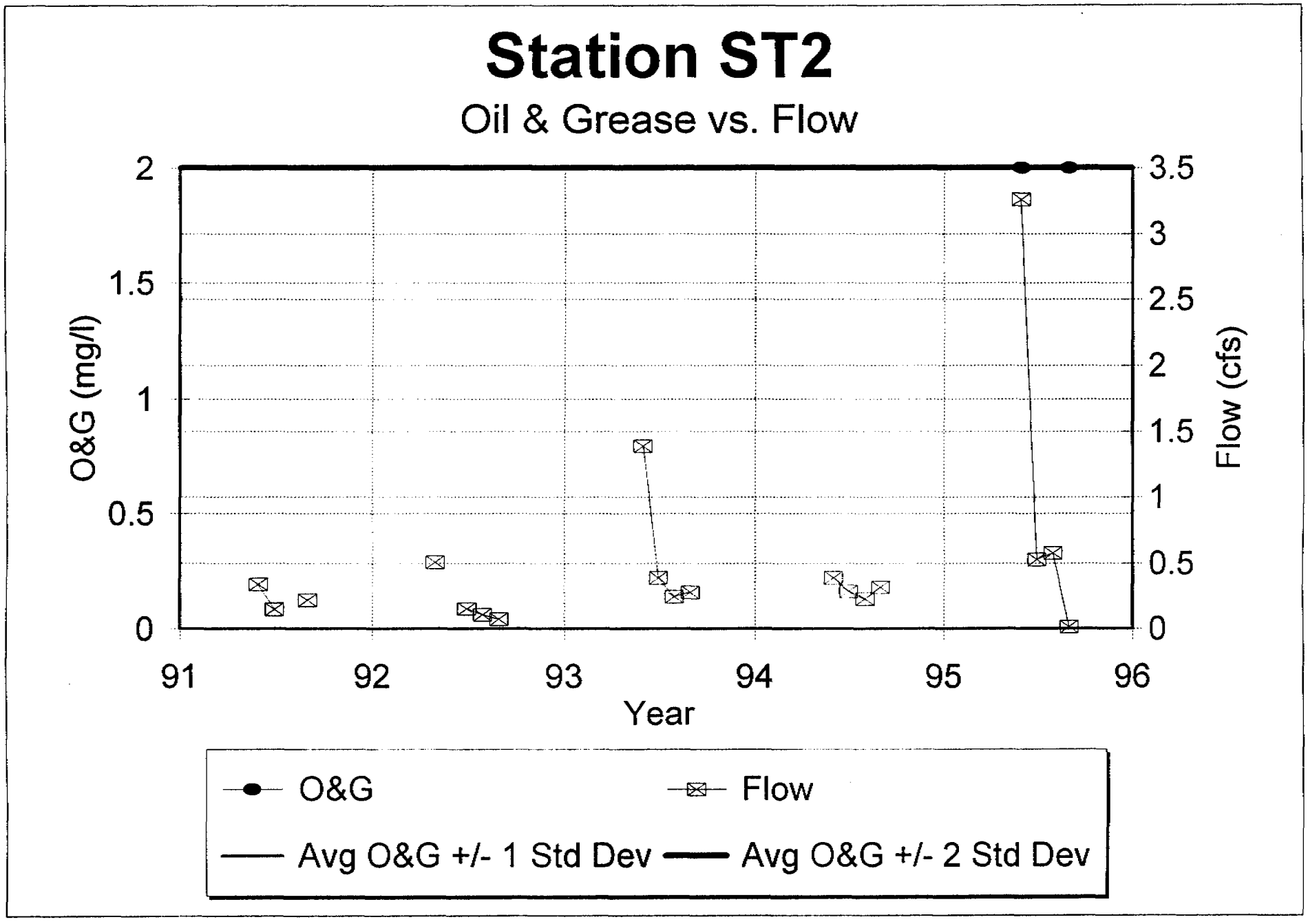

Station ST2
SO4 vs. Flow
800
600
400
200
0
-200
SO4 (mg/l)
3.5
3
2.5
2
1.5
1
0.5
0
Flow (cfs)
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

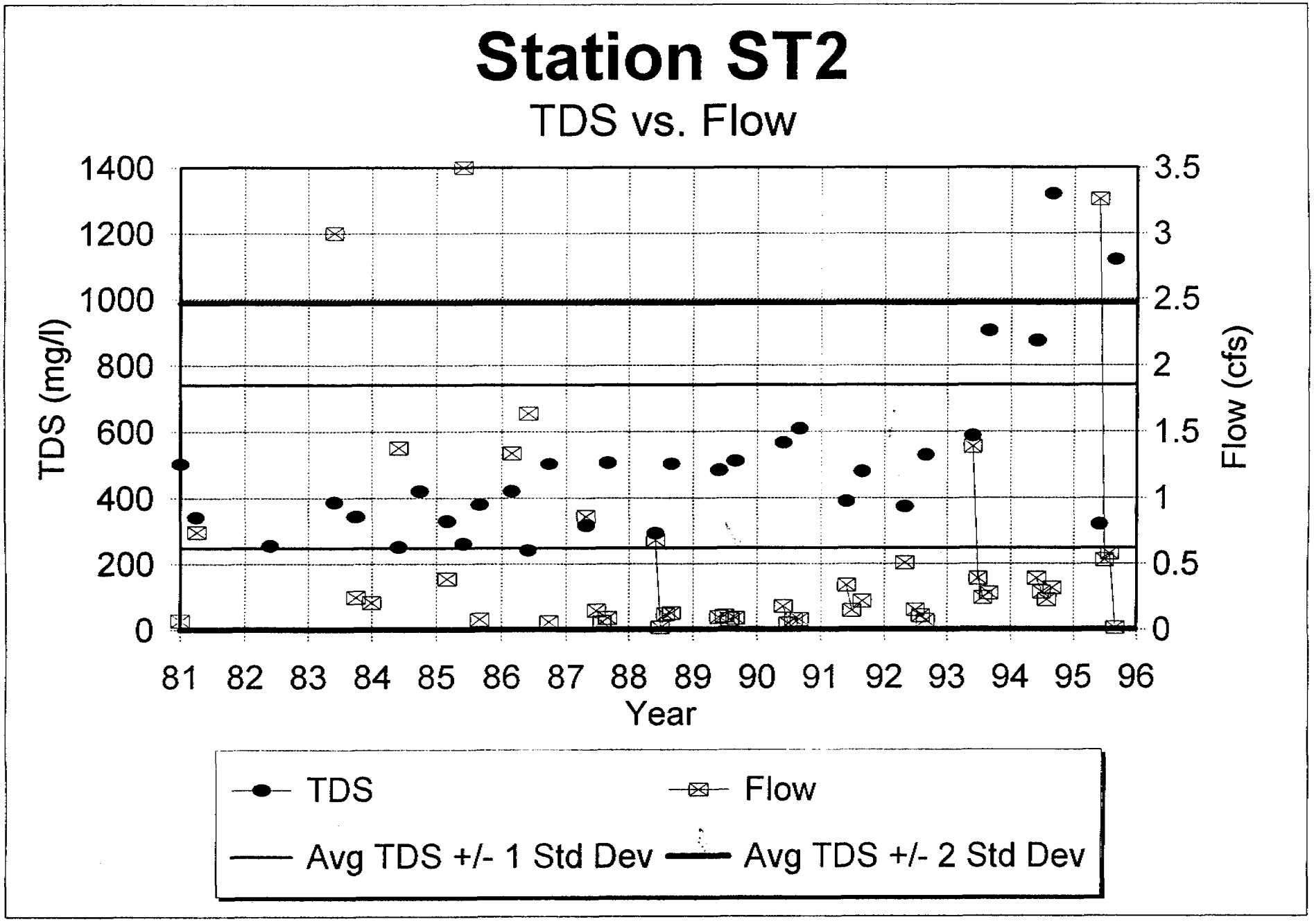

Station ST2
HCO3 vs. Flow
450
400
350
300
250
200
HCO3 (mg/l)
3.5
3
2.5
2
1.5
1
0.5
0
Flow (cfs)
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

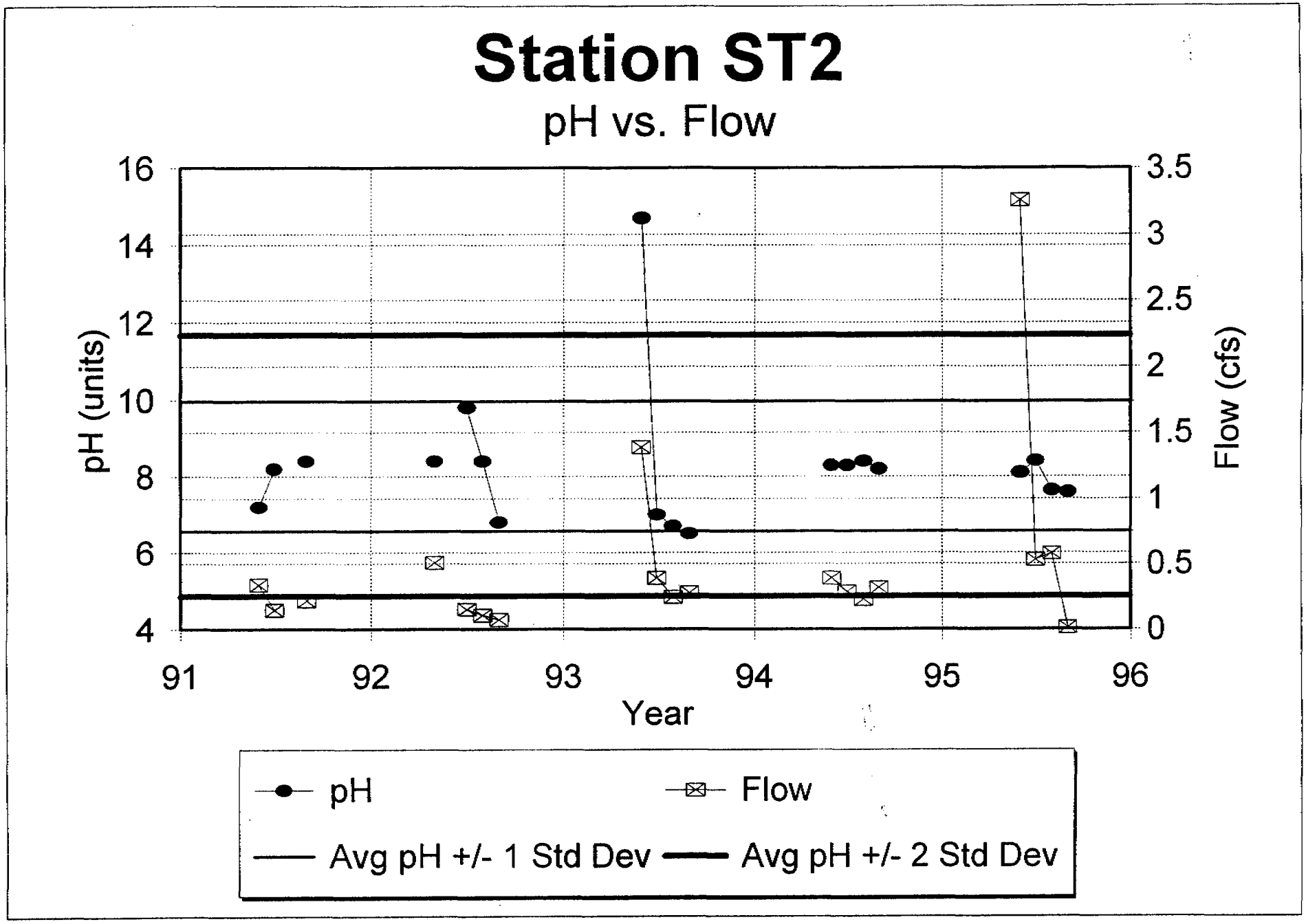

Station ST2
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
0
2
4
6
8
10
12
0
0.5
1
1.5
2
2.5
3
3.5
91
92
93
94
95
96
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

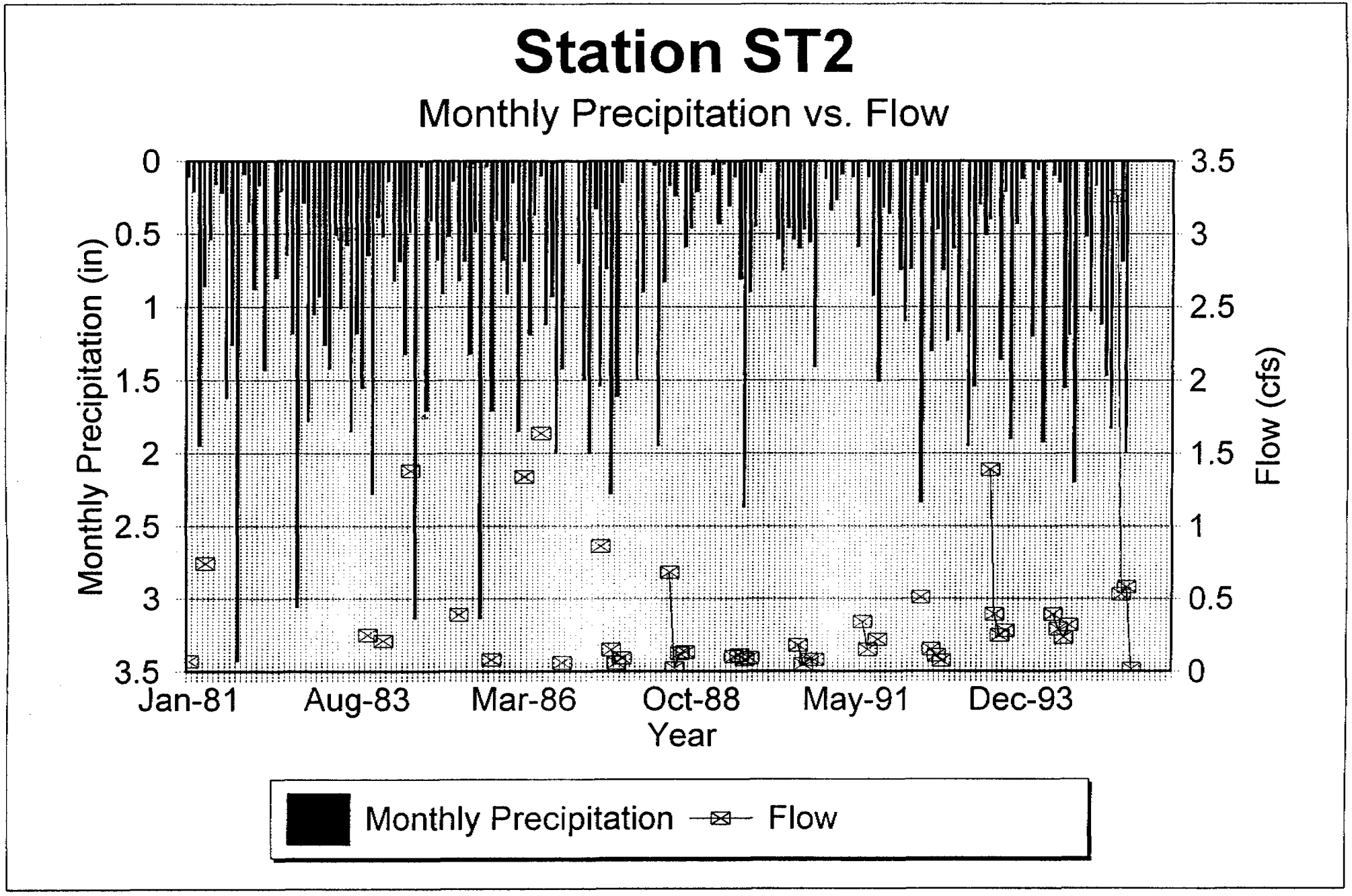

Station ST2
Mg vs. Flow
Mg (mg/l)
200
150
100
50
0
-50
Flow (cfs)
3.5
3
2.5
2
1.5
1
0.5
0
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station ST2
Ca vs. Flow
Ca (mg/l)
200
180
160
140
120
100
80
60
40
20
Flow (cfs)
3.5
3
2.5
2
1.5
1
0.5
0
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station ST2
Oil & Grease vs. Flow
O&G (mg/l)
Flow (cfs)
Year
2
1.5
1
0.5
0
3.5
3
2.5
2
1.5
1
0.5
0
91
92
93
94
95
96
O&G
Flow
Avg O&G +/- 1 Std Dev
Avg O&G +/- 2 Std Dev


Station ST2
TDS vs. Flow
TDS (mg/l)
Flow (cfs)
Year
1400
1200
1000
800
600
400
200
0
3.5
3
2.5
2
1.5
1
0.5
0
81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station ST2
pH vs. Flow
pH (units)
16
14
12
10
8
6
4
Flow (cfs)
3.5
3
2.5
2
1.5
1
0.5
0
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev


Station ST2
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
3
3.5
Flow (cfs)
3.5
3
2.5
2
1.5
1
0.5
0
Jan-81
Aug-83
Mar-86
Oct-88
May-91
Dec-93
Year
Monthly Precipitation
Flow

Cyprus Plateau Mining Company - Water Quality Data

Station: ST2 | Property: Star Point | Location: 2375' S 2500' W of NE corn. Sec 20, T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Print Date: April 26, 1996 | Elevation: 7840

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-93																							
Feb-93																							
Mar-93																							
Apr-93																							
May-93																							
Jun-93	06/21/93	1.39	14.7	1026	18.4	588	52		516	285	0	3	45	59	27	1	3	<	0.02	0.96	0.41		
Jul-93	07/27/93	0.391	7	694	8.5																		
Aug-93	08/18/93	0.246	6.7	924	8.6																		
Sep-93	09/28/93	0.28	6.5	1200	5	904 <	2		706	373	10	10	434	120	99	3	10	<	0.02 <	0.02 <	0.01		
Oct-93																							
Nov-93																							
Dec-93																							
Jan-94																							
Feb-94																							
Mar-94																							
Apr-94																							
May-94																							
Jun-94	06/08/94	0.391	8.3	1200	12.5	874	4		658	354	0	6	395	114	91	3	7		0.07	0.23	0.2		
Jul-94	07/20/94	0.29	8.3	676	11.3																		
Aug-94	08/31/94	0.23	8.4	1470	14.4																	RAIN IN A.M. = -.10". LO	
Sep-94	09/21/94	0.32	8.2	1466	13.7	1320	2		1114	397	0	10	718	183	160	6	11		0.12	0.16	0.01		
Oct-94																							
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95																							
Mar-95																							
Apr-95																							
May-95																							
Jun-95	06/22/95	3.26	8.1	463	5.2	320	32 <	2	317	237 <	2	3	60	78.2	29.5	1.5	3.4	3.3	0.04	0.27	0.021		
Jul-95	07/27/95	0.53	8.41	890	15																		
Aug-95	08/23/95	0.58	7.64	817	12																		
Sep-95	09/28/95	0.015	7.6	875	8.22	1120	6 <	2	874	321 <	2	7	500	149	122	4.7	9.2	2.4	0.02	0.06	0.017		
Oct-95																							
Nov-95																							
Dec-95																							
Jan-96																							
END DATA																							
Count		47	19	19	19	31	9	2	10	10	9	10	10	10	10	10	10	2	10	10	8		
Minimum		0.015	6.5	1	5	241 <	2 <	2	317	237 <	0	3	45	59	27	1	3	2.4 <	0.02 <	0.02 <	0.01		
Maximum		3.5	14.7	1470	18.4	1320 <	52 <	2	1114	397 <	10	10	718	183	160	6	11	3.3 <	0.12 <	0.96 <	0.41		
Average		0.5323	8.2658	856.47	10.769	494.39 <	17.556 <	2	576.8	322.3 <	3.4444	6.2	269.9	100.32	73.15	2.82	7.26	2.85 <	0.041 <	0.24 <	0.086		
Standard Deviation		0.8101	1.7041	328.37	3.5014	246.76 <	18.709 <	0	248.2	44.075 <	3.8038	2.4819	217.1	38.571	41.554	1.4428	2.8129	0.45 <	0.0318 <	0.2546 <	0.137		
Avg. -1 Std. Dev.		-0.278	6.5617	528.1	7.2681	247.62 <	-1.153 <	2	328.6	278.22 <	-0.359	3.7181	52.797	61.749	31.596	1.3772	4.4471	2.4 <	0.0092 <	-0.015 <	-0.051		
Avg. +1 Std. Dev.		1.3424	9.9699	1184.8	14.271	741.15 <	36.265 <	2	825	366.38 <	7.2483	8.6819	487	138.89	114.7	4.2628	10.073	3.3 <	0.0728 <	0.4946 <	0.223		
Avg. -2 Std. Dev.		-1.088	4.8576	199.73	3.7666	0.858 <	-19.86 <	2	80.393	234.15 <	-4.163	1.2361	-164.3	23.178	-9.957	-0.066	1.6342	1.95 <	-0.023 <	-0.269 <	-0.188		
Avg. +2 Std. Dev.		2.1525	11.674	1513.2	17.772	987.92 <	54.973 <	2	1073.2	410.45 <	11.052	11.164	704.11	177.46	156.26	5.7056	12.886	3.75 <	0.1045 <	0.7491 <	0.3599		

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 26, 1996

Station: ST2 | Property: Star Point | Location: 2375' S 2500' W of NE corn. Sec 20, T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 7840

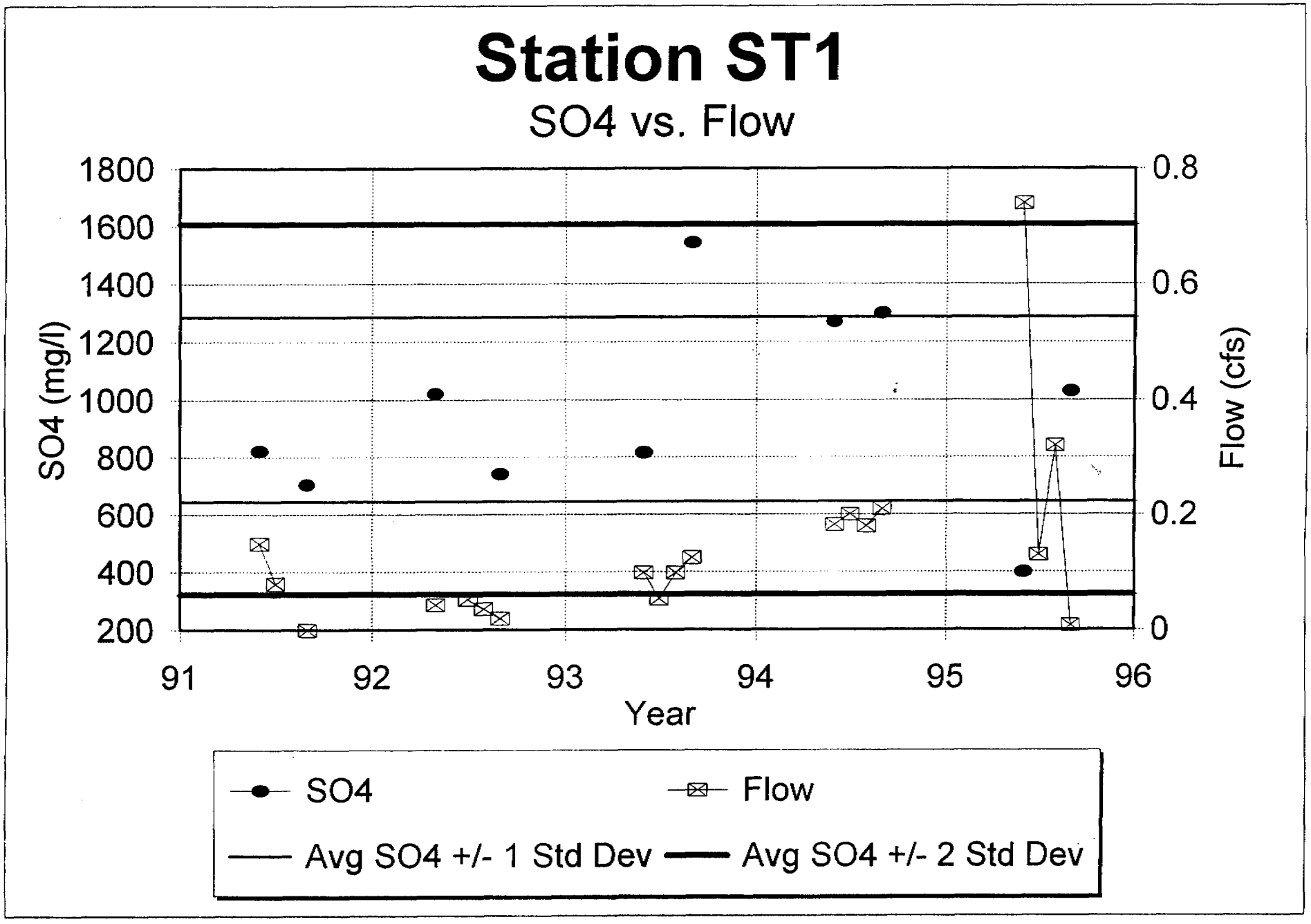
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-87																							
Feb-87																							
Mar-87																							
Apr-87																							
May-87	05/23/87	0.86				316																	
Jun-87																							
Jul-87	07/20/87	0.15																					
Aug-87	08/12/87	0.06																					
Sep-87	09/22/87	0.09				506																	
Oct-87																							
Nov-87																							
Dec-87																							
Jan-88																							
Feb-88																							
Mar-88																							
Apr-88																							
May-88																							
Jun-88	06/01/88	0.68				292																	
Jul-88	07/15/88	0.02																					
Aug-88	08/13/88	0.12																					
Sep-88	09/30/88	0.13				502																	
Oct-88																							
Nov-88																							
Dec-88																							
Jan-89																							
Feb-89																							
Mar-89																							
Apr-89																							
May-89																							
Jun-89	06/06/89	0.1				484																	
Jul-89	07/03/89	0.11																					
Aug-89	08/22/89	0.06																					
Sep-89	09/15/89	0.09				512																	
Oct-89																							
Nov-89																							
Dec-89																							
Jan-90																							
Feb-90																							
Mar-90																							
Apr-90																							
May-90																							
Jun-90	06/02/90	0.18				568																	
Jul-90	07/04/90	0.05																					
Aug-90	08/22/90	0.08																					
Sep-90	09/24/90	0.08				610																	
Oct-90																							
Nov-90																							
Dec-90																							
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91	06/12/91	0.34	7.2	680	11	390				307		7	113	65	45	2	11	<	0.02	0.13	< 0.01		
Jul-91	07/16/91	0.15	8.2	670	16		< 2		347														
Aug-91																							
Sep-91	09/17/91	0.22	8.4	740	7	480			410	344	5	7	117	77	53	2	6		0.06	0.12	0.01		
Oct-91																							
Nov-91																							
Dec-91																							
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92																							
May-92	05/20/92	0.51	8.4	1	10.3	374	44		341	310	2	3	97	69	41	2	5	<	0.02	0.31			
Jun-92																							
Jul-92	07/16/92	0.1524	9.8	805	9.3																		
Aug-92	08/26/92	0.11	8.4	835	9.2																		
Sep-92	09/21/92	0.074	6.8	841	9	530	14		485	295	10	6	220	89	64	3	7	<	0.02	0.14			
Oct-92																							
Nov-92																							
Dec-92																							

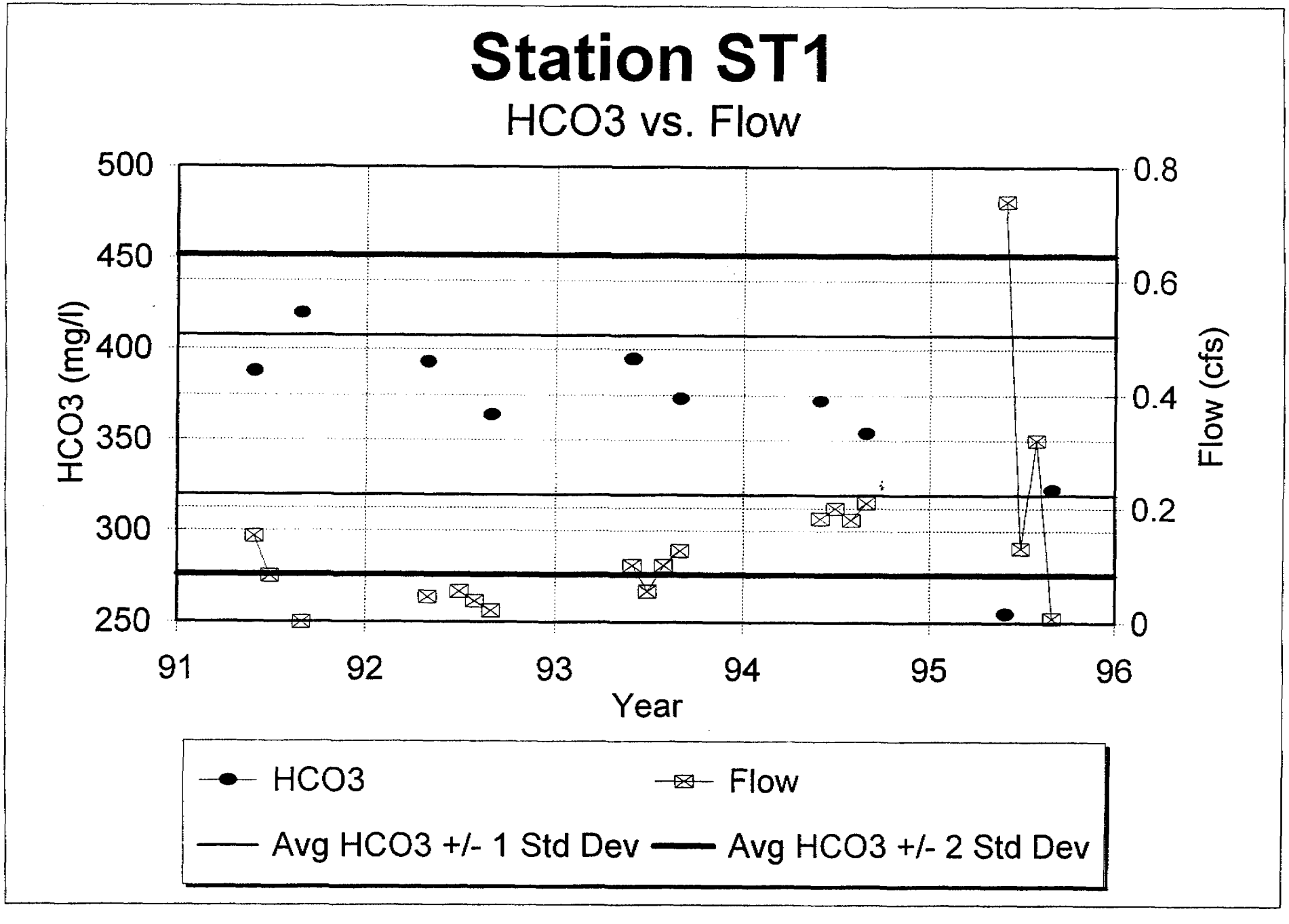
Cyprus Plateau Mining Company - Water Quality Data

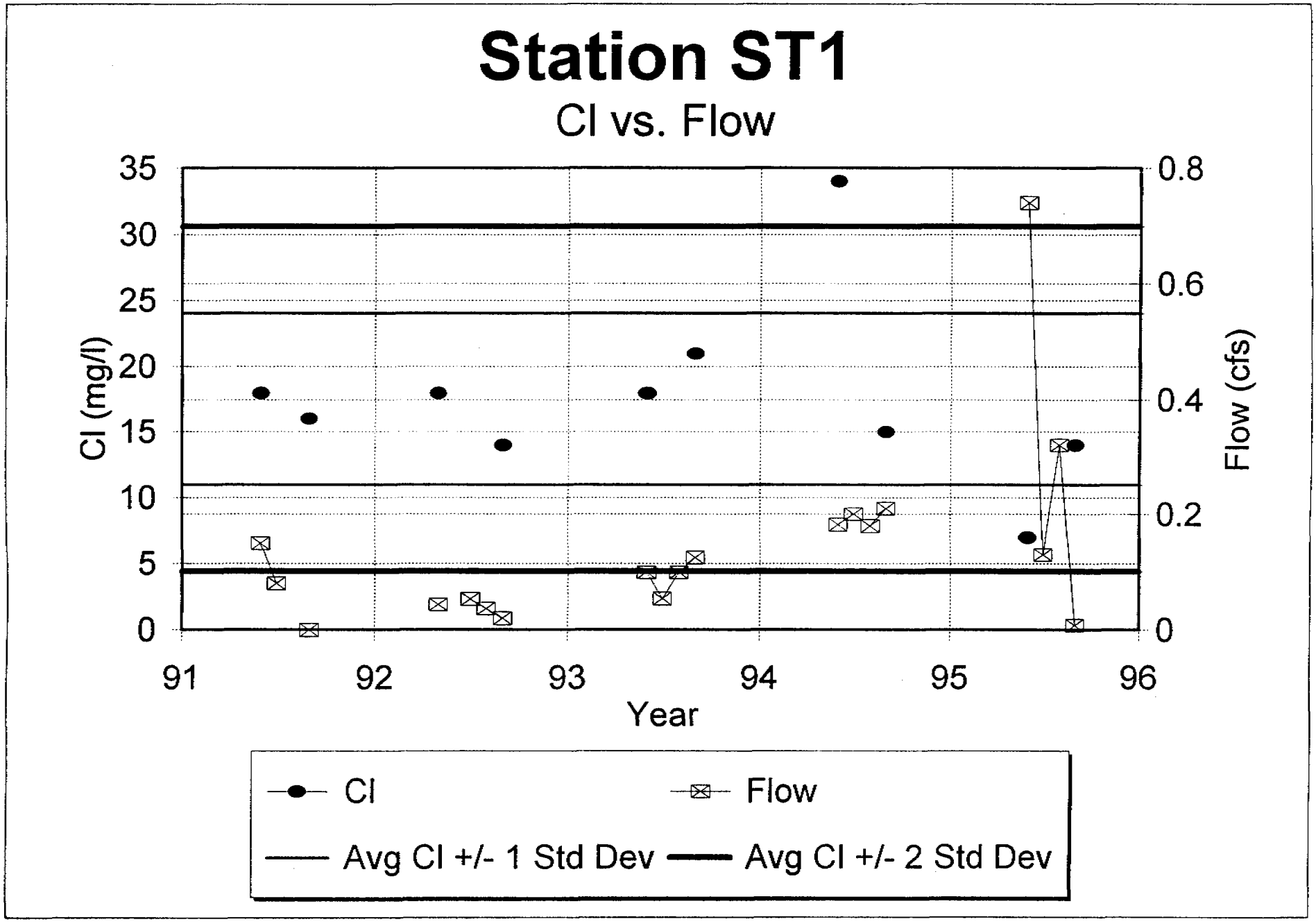
Print Date: April 26, 1996

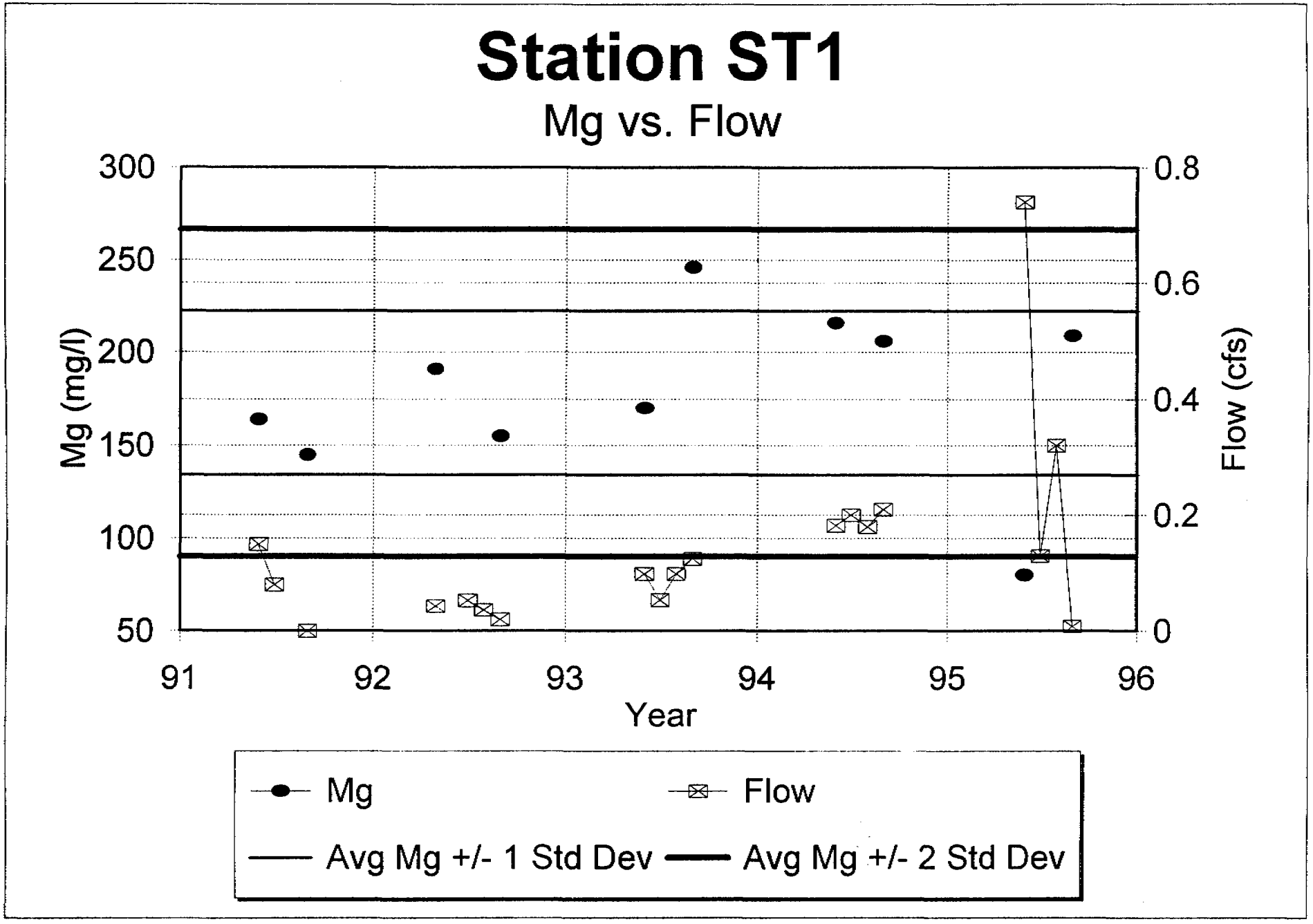
Station: ST2 | Property: Star Point | Location: 2375' S 2500' W of NE corn. Sec 20, T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 7840

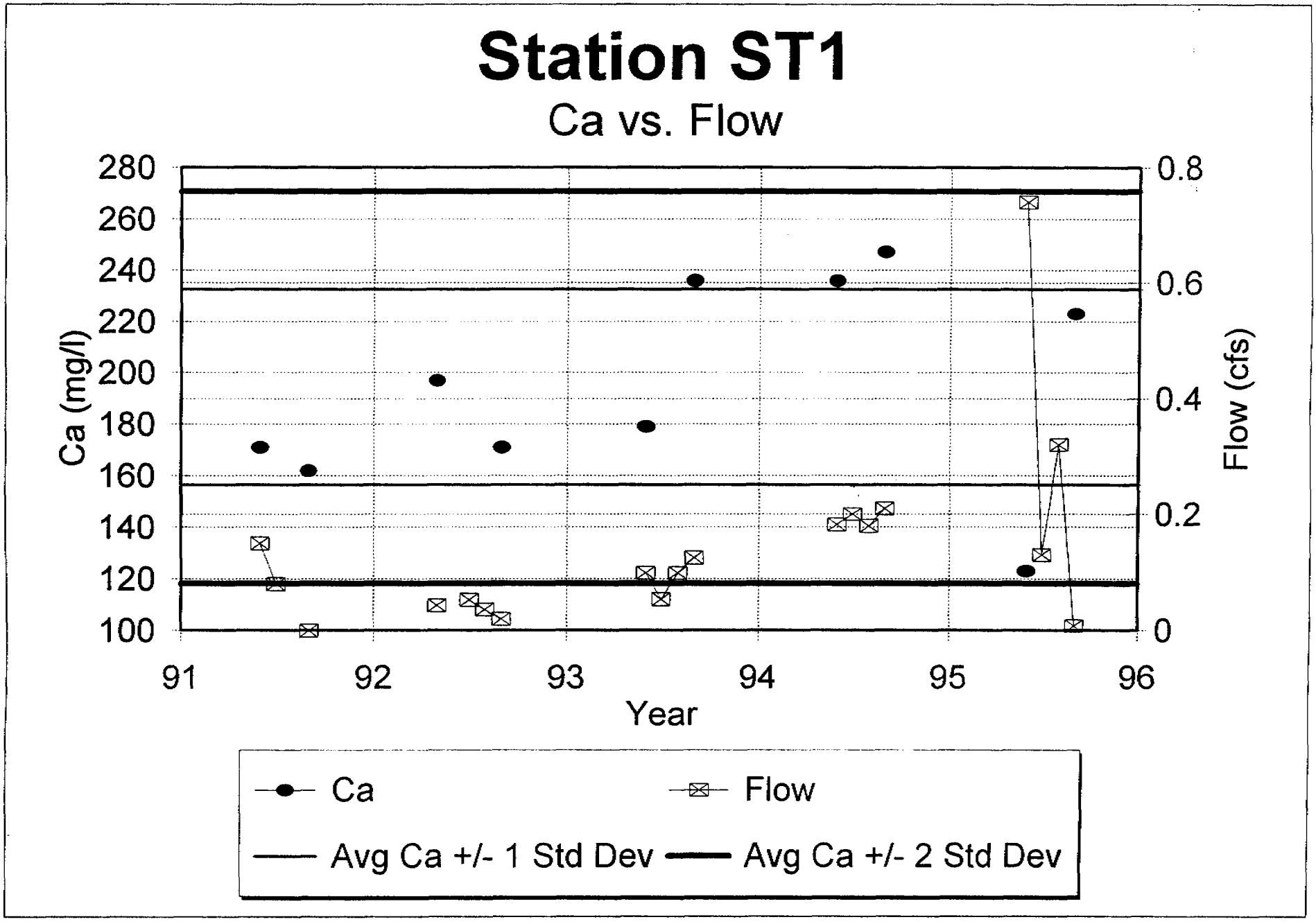
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-81	01/27/81	0.07				503																
Feb-81																						
Mar-81																						
Apr-81	04/27/81	0.74				340																
May-81																						
Jun-81																						
Jul-81																						
Aug-81																						
Sep-81																						
Oct-81																						
Nov-81																						
Dec-81																						
Jan-82																						
Feb-82																						
Mar-82																						
Apr-82																						
May-82																						
Jun-82	06/22/82					255																
Jul-82																						
Aug-82																						
Sep-82																						
Oct-82																						
Nov-82																						
Dec-82																						
Jan-83																						
Feb-83																						
Mar-83	03/24/83																					IN-ACCESSIBLE - SNOW
Apr-83	04/21/83																					IN-ACCESSIBLE - SNOW
May-83	05/21/83																					IN-ACCESSIBLE - SNOW
Jun-83	06/29/83	3				388																
Jul-83																						
Aug-83																						
Sep-83																						
Oct-83	10/04/83	0.25				343																
Nov-83																						
Dec-83																						
Jan-84	01/06/84	0.21																				EST AIR FLOW - NO SA
Feb-84																						
Mar-84	03/30/84																					IN-ACCESSIBLE - MUDD
Apr-84																						
May-84																						
Jun-84	06/21/84	1.38				251																
Jul-84																						
Aug-84																						
Sep-84																						
Oct-84	10/25/84					421																
Nov-84																						
Dec-84	12/31/84																					ALT SITE SEE ST1 FOR
Jan-85																						
Feb-85	02/21/85																					IN-ACCESSIBLE - SNOW
Mar-85	03/31/85	0.39				330																
Apr-85																						
May-85																						
Jun-85	06/13/85	3.5				260																
Jul-85																						
Aug-85																						
Sep-85	09/27/85	0.08				381																
Oct-85																						
Nov-85																						
Dec-85																						
Jan-86																						
Feb-86																						
Mar-86	03/28/86	1.34				421																
Apr-86																						
May-86																						
Jun-86	06/12/86	1.64				241																
Jul-86																						
Aug-86																						
Sep-86																						
Oct-86	10/13/86	0.06				502																
Nov-86																						
Dec-86																						

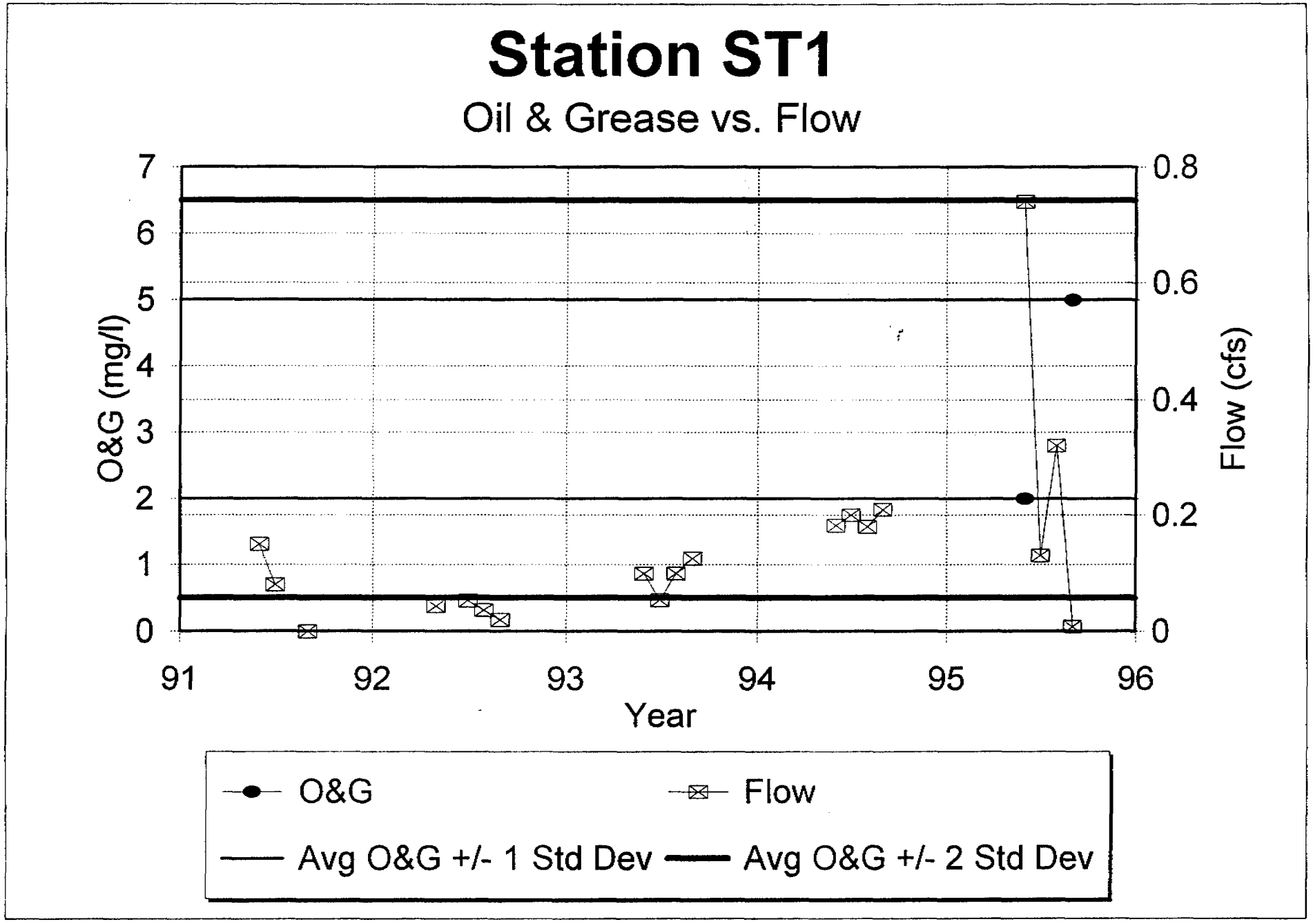

Station ST1
SO4 vs. Flow
1800
1600
1400
1200
1000
800
600
400
200
SO4 (mg/l)
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

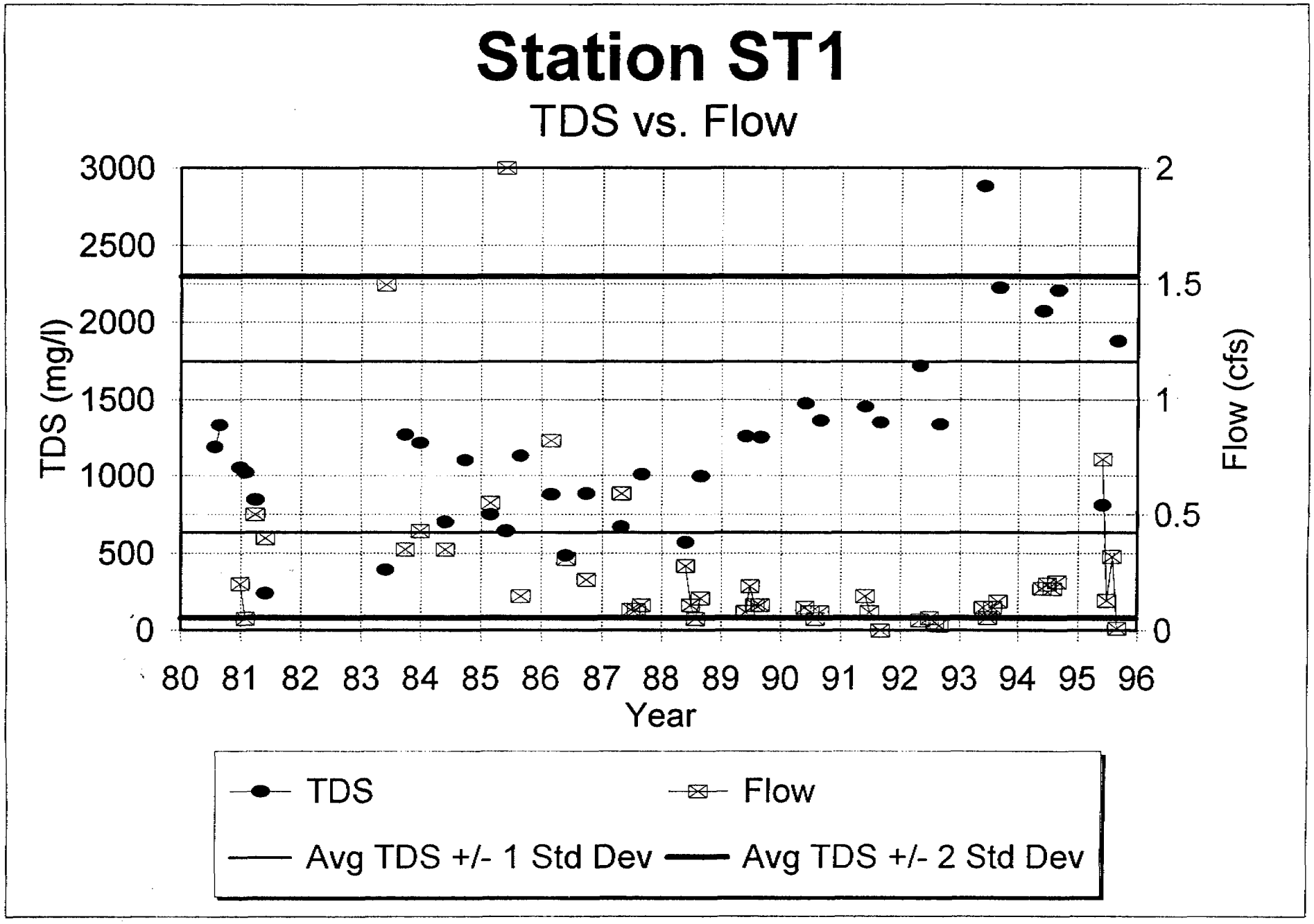

Station ST1
HCO3 vs. Flow
500
450
400
350
300
250
HCO3 (mg/l)
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

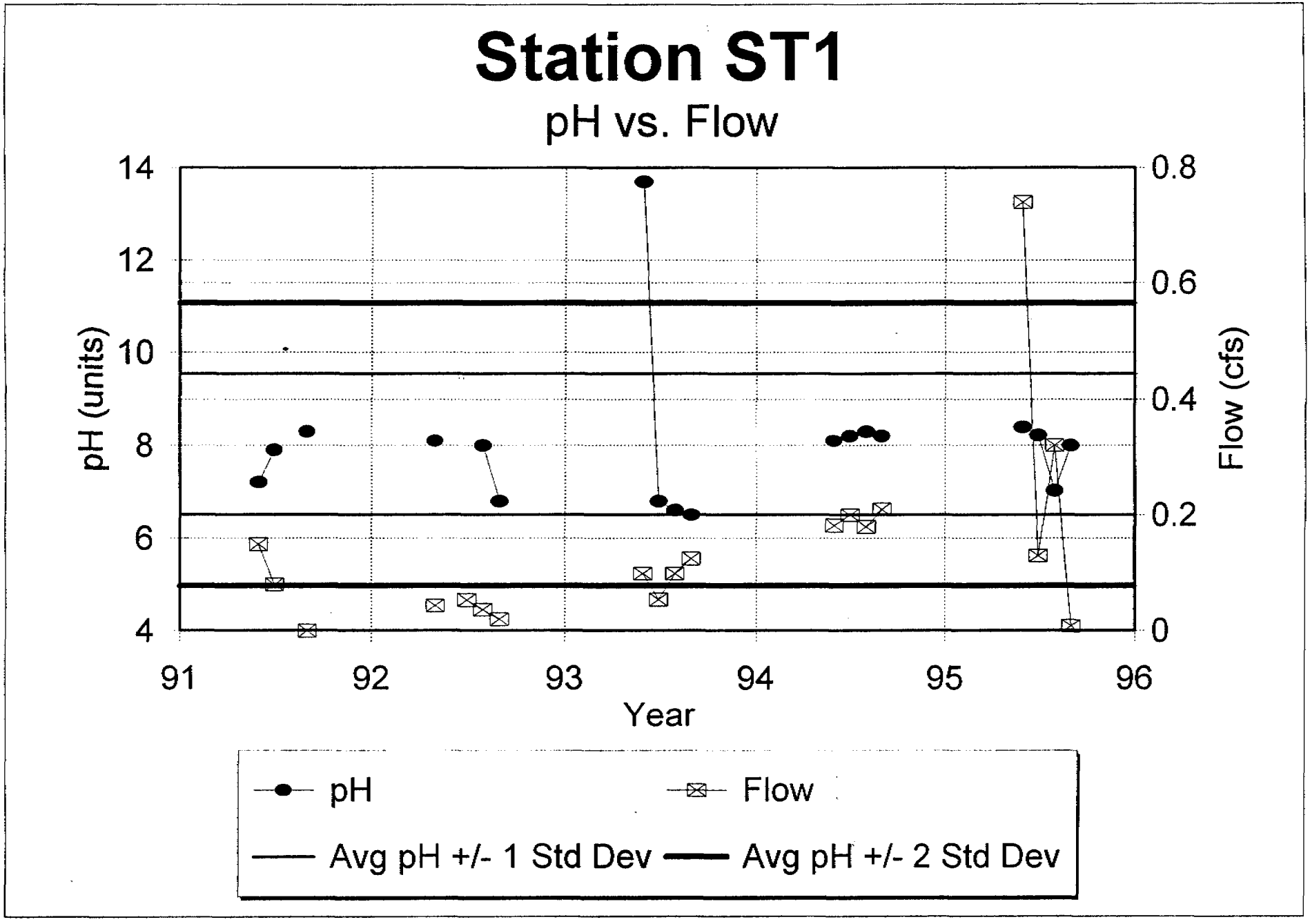

Station ST1
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
35
30
25
20
15
10
5
0
0.8
0.6
0.4
0.2
0
91
92
93
94
95
96
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

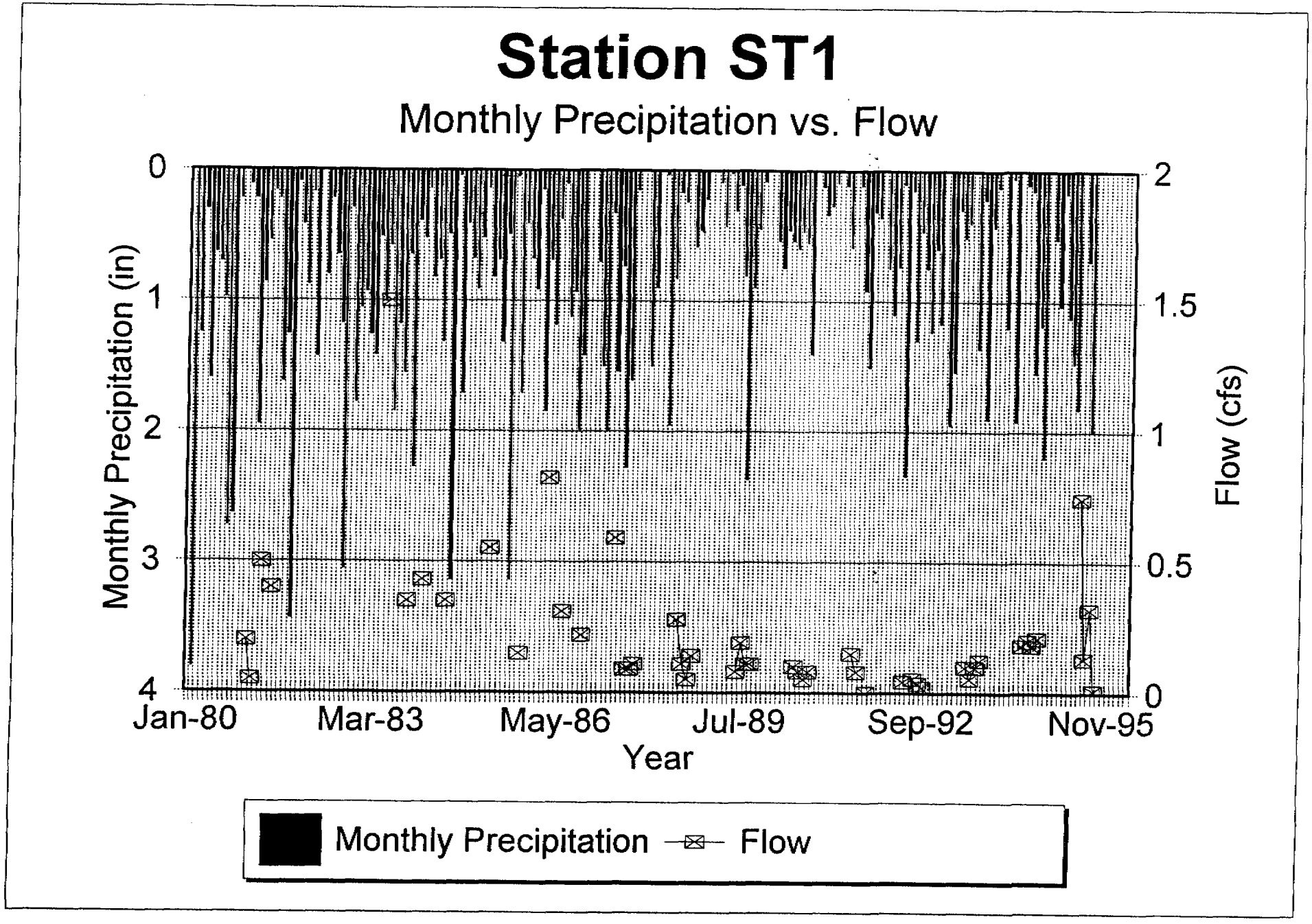

Station ST1
Mg vs. Flow
300
250
200
150
100
50
Mg (mg/l)
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station ST1
Ca vs. Flow
280
260
240
220
200
180
160
140
120
100
Ca (mg/l)
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station ST1
Oil & Grease vs. Flow
O&G (mg/l)
Flow (cfs)
Year
0
1
2
3
4
5
6
7
0
0.2
0.4
0.6
0.8
91
92
93
94
95
96
O&G
Flow
Avg O&G +/- 1 Std Dev
Avg O&G +/- 2 Std Dev


Station ST1
TDS vs. Flow
TDS (mg/l)
Flow (cfs)
3000
2500
2000
1500
1000
500
0
2
1.5
1
0.5
0
80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station ST1
pH vs. Flow
14
12
10
8
6
4
pH (units)
0.8
0.6
0.4
0.2
0
Flow (cfs)
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev


Station ST1
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
1
2
3
4
Flow (cfs)
2
1.5
1
0.5
0
Jan-80
Mar-83
May-86
Jul-89
Sep-92
Nov-95
Year
Monthly Precipitation
Flow

Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 6, 1996

Station: ST1 | Property: Star Point | Location: 2250' S 2250' W of NE corn. Sec 20, T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 7855

Date Mo-Yr	Sample Date	Field Measurements Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	Laboratory Measurements TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	NO3 (D) (mg/l)	NO2 (D) (mg/l)	Comments
Mar-93																								
Apr-93																								
May-93																								
Jun-93	06/21/93	0.099	13.7	3520	20.4	2884	36		2290	395	0	18	815	179	170	7	16	<	0.02	0.19	0.02			
Jul-93	07/27/93	0.054	6.8	1700	10.7																			
Aug-93	08/18/93	0.099	6.6	1720	11.1																			
Sep-93	09/28/93	0.125	6.5	2390	6.8	2230	8		1599	373	2	21	1544	236	246	9	23	<	0.2	0.14	0.02			
Oct-93																								
Nov-93																								
Dec-93																								
Jan-94																								
Feb-94																								
Mar-94																								
Apr-94																								
May-94																								
Jun-94	06/08/94	0.182	8.1	2400	12.3	2076	10		1476	372	0	34	1270	236	216	15	16		0.11	0.19	0.02			
Jul-94	07/20/94	0.2	8.2	1056	12.1																			RAIN IN A.M. = ~.10". LOT
Aug-94	08/31/94	0.18	8.3	2380	16.2																			
Sep-94	09/21/94	0.21	8.2	2310	15.8	2210	6		1462	354	0	15	1300	247	206	20	15		0.09	0.15 <	0.01			
Oct-94																								
Nov-94																								
Dec-94																								
Jan-95																								
Feb-95																								
Mar-95																								
Apr-95																								
May-95																								
Jun-95	06/22/95	0.74	8.4	1050	8	810	6 <	2	838	255 <	2	7	400	123	80.4	5.8	6.5	-2	0.02	0.12	0.007	0.51 <	0.01	
Jul-95	07/27/95	0.13	8.22	2070	18																			
Aug-95	08/23/95	0.32	7.03	1460	12																			
Sep-95	09/28/95	0.008	8	1360	8.88	1880	14	5	1420	323 <	2	14	1030	223	209	17.3	18.7	1.6	0.02	0.26	0.023	0.53 <	0.01	
Oct-95																								
Nov-95																								
Dec-95																								
Jan-96																								
END DATA																								
Count		49	18	18	18	35	9	2	10	10	9	10	10	10	10	10	10	2	10	10	8	2	2	
Minimum		0	6.5	1	8	240 <	2 <	2	838	255 <	0	7	400	123	80.4	5.8	6.5	-2 <	0.02	0.11 <	0.007	0.51 <	0.01	
Maximum		2	13.7	3520	20.4	2884 <	46 <	5	2290	420 <	7	34	1544	247	246	20	36	1.6 <	0.2	1 <	0.03	0.53 <	0.01	
Average		0.2617	8.0194	1685.2	12.588	1190.7 <	15.333 <	3.5	1332.4	363.7 <	2	17.5	964.6	194.5	178.24	10.21	17.02	-0.2 <	0.072	0.282 <	0.02	0.52 <	0.01	
Standard Deviation		0.3611	1.5212	818.69	3.7328	554.93 <	14.329 <	1.5	419	43.955 <	2.357	6.546	320.72	38.122	44.029	4.9345	7.4521	1.8 <	0.0712	0.2513 <	0.0077	0.01 <	0	
Avg. -1 Std. Dev.		-0.099	6.4983	866.53	8.856	635.81 <	1.0039 <	2	913.4	319.75 <	-0.357	10.954	643.88	156.38	134.21	5.2755	9.5679	-2 <	0.0008	0.0307 <	0.0123	0.51 <	0.01	
Avg. +1 Std. Dev.		0.6228	9.5406	2503.9	16.321	1745.7 <	29.663 <	5	1751.4	407.65 <	4.357	24.046	1285.3	232.62	222.27	15.144	24.472	1.6 <	0.1432	0.5333 <	0.0277	0.53 <	0.01	
Avg. -2 Std. Dev.		-0.461	4.9771	47.837	5.1222	80.877 <	-13.33 <	0.5	494.4	275.79 <	-2.714	4.408	323.16	118.26	90.183	0.3411	2.1158	-3.8 <	-0.07	-0.221 <	0.0045	0.5 <	0.01	
Avg. +2 Std. Dev.		0.9839	11.062	3322.6	20.053	2300.8 <	43.992 <	6.5	2170.4	451.61 <	6.714	30.592	1606	270.74	266.3	20.079	31.924	3.4 <	0.2145	0.7847 <	0.0355	0.54 <	0.01	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 6, 1998

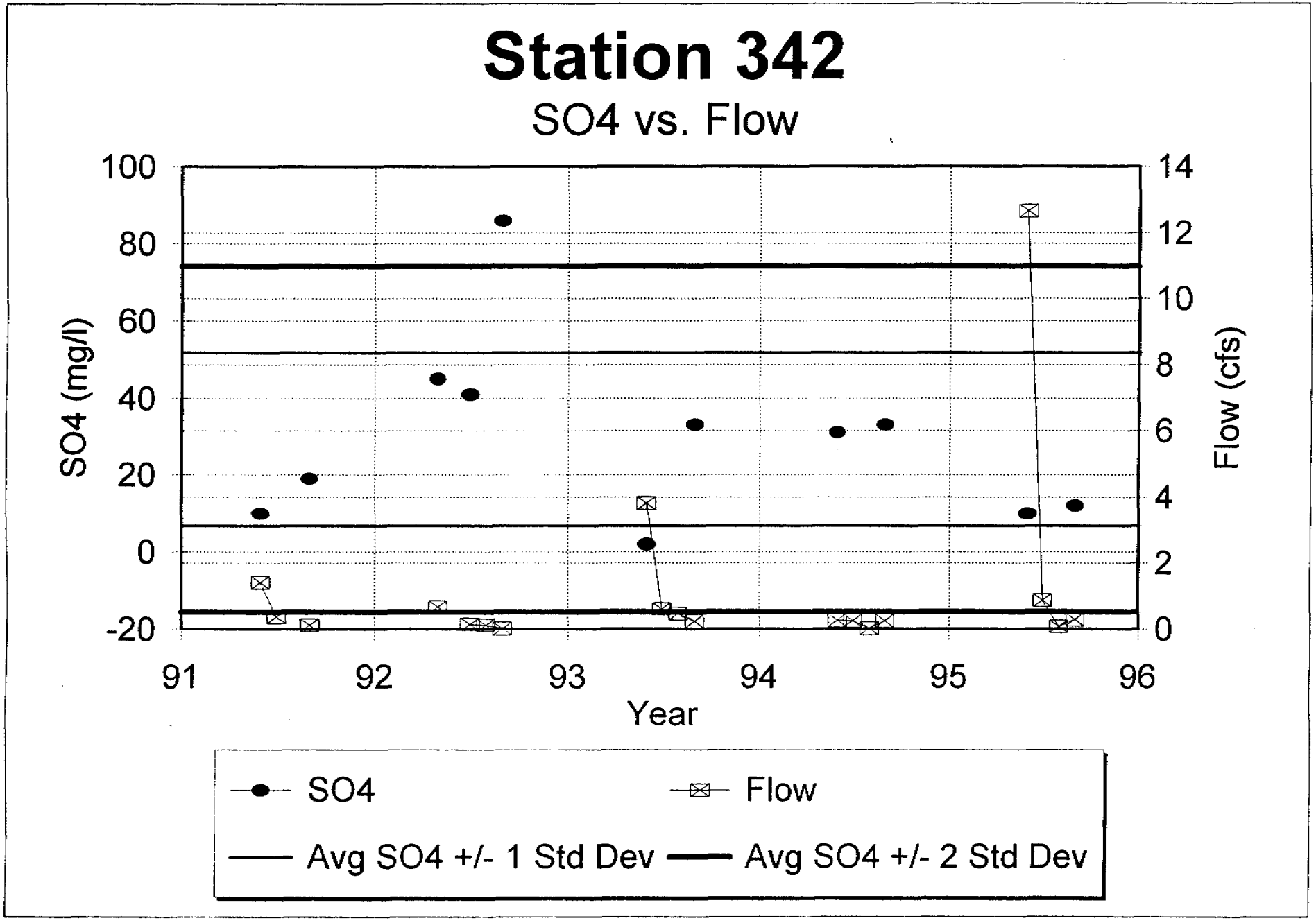
Station: ST1 | Property: Star Point | Location: 2250' S 2250' W of NE corn. Sec 20, T15S, R6E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 7855

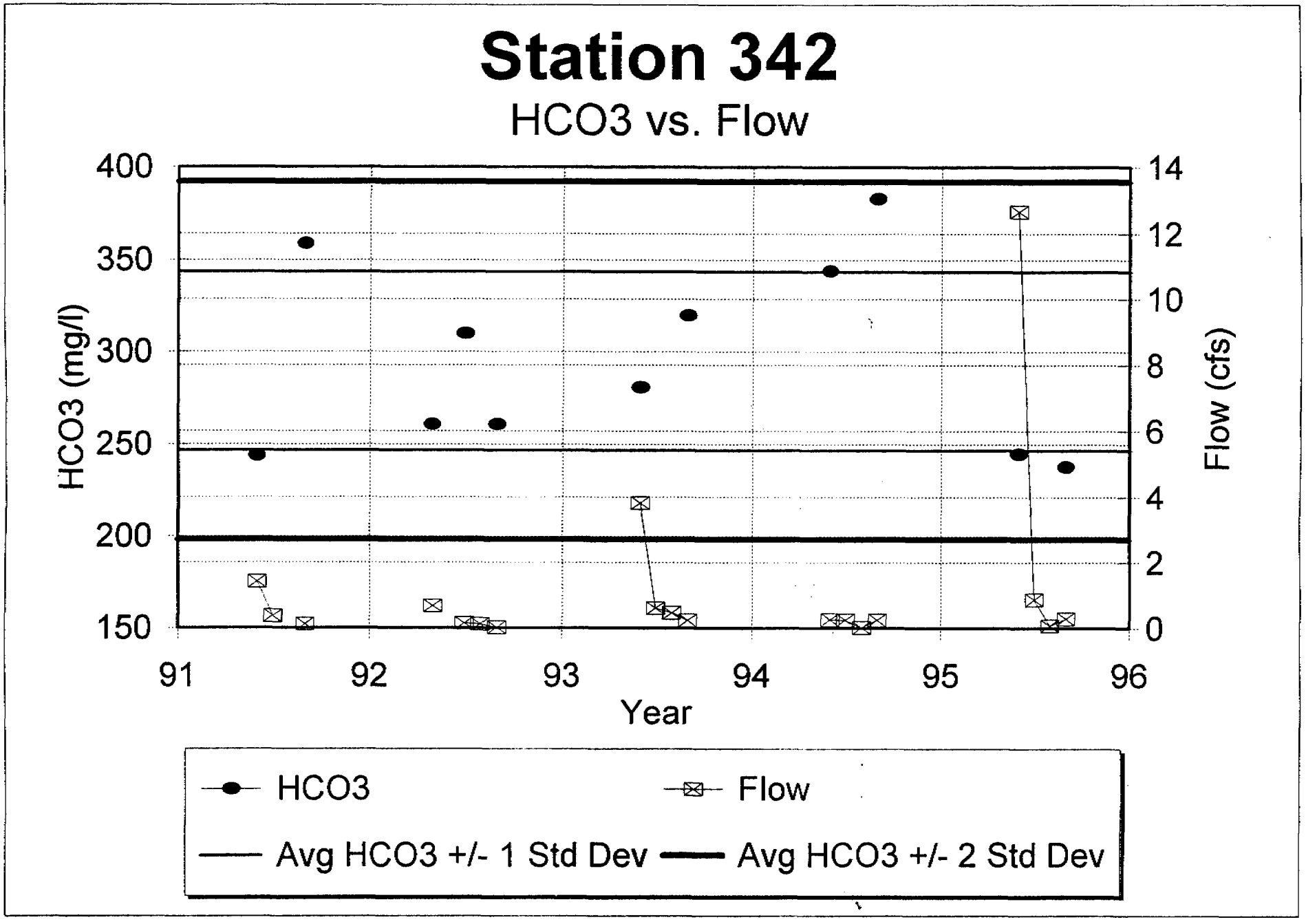
Date		Field Measurements				Laboratory Measurements																		
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	NO3 (D) (mg/l)	NO2 (D) (mg/l)	Comments
Aug-86																								
Sep-86																								
Oct-86	10/13/86	0.22				885																		
Nov-86																								
Dec-86																								
Jan-87																								
Feb-87																								
Mar-87																								
Apr-87																								
May-87	05/23/87	0.59				870																		
Jun-87																								
Jul-87	07/20/87	0.09																						
Aug-87	08/12/87	0.09																						
Sep-87	09/22/87	0.11				1008																		
Oct-87																								
Nov-87																								
Dec-87																								
Jan-88																								
Feb-88																								
Mar-88																								
Apr-88																								
May-88																								
Jun-88	06/01/88	0.28				574																		
Jul-88	07/15/88	0.11																						
Aug-88	08/13/88	0.05																						
Sep-88	09/30/88	0.14				996																		
Oct-88																								
Nov-88																								
Dec-88																								
Jan-89																								
Feb-89																								
Mar-89																								
Apr-89																								
May-89																								
Jun-89	06/06/89	0.08				1258																		
Jul-89	07/03/89	0.19																						
Aug-89	08/22/89	0.11																						
Sep-89	09/15/89	0.11				1250																		
Oct-89																								
Nov-89																								
Dec-89																								
Jan-90																								
Feb-90																								
Mar-90																								
Apr-90																								
May-90																								
Jun-90	06/02/90	0.1				1472																		
Jul-90	07/04/90	0.08																						
Aug-90	08/22/90	0.05																						
Sep-90	09/24/90	0.08				1360																		
Oct-90																								
Nov-90																								
Dec-90																								
Jan-91																								
Feb-91																								
Mar-91																								
Apr-91																								
May-91																								
Jun-91	06/12/91	0.15	7.2	1870	13	1454 <	2		1100	388		18	821	171	164	7	36	<	0.02	0.35	0.03			
Jul-91	07/16/91	0.08	7.9	1640	18																			
Aug-91																								
Sep-91	09/17/91	0	8.3	1650	10	1350			1000	420	5	16	704	182	145	6	12		0.2	0.31	0.03			
Oct-91																								
Nov-91																								
Dec-91																								
Jan-92																								
Feb-92																								
Mar-92																								
Apr-92																								
May-92	05/20/92	0.044	8.1	1	10.9	1716	12		1276	393	0	18	1021	197	191	8	16	<	0.02	0.11				
Jun-92																								
Jul-92	07/16/92	0.0534																						
Aug-92	08/26/92	0.037	6	1755	11.6																			
Sep-92	09/21/92	0.02	6.8	2	12.8	1336	46		1063	364	7	14	741	171	155	7	13	<	0.02	1				
Oct-92																								
Nov-92																								
Dec-92																								
Jan-93																								
Feb-93																								

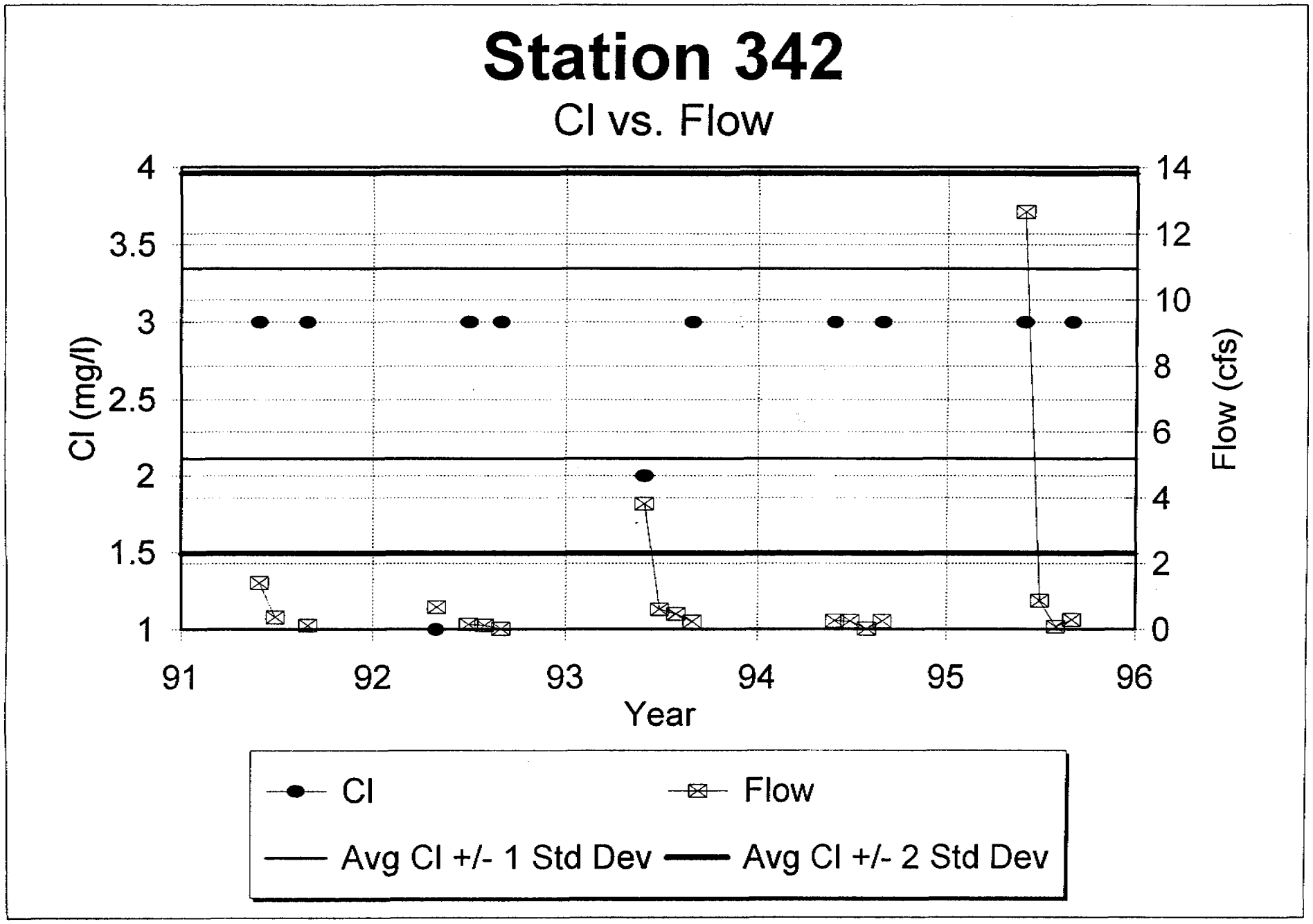
Cyprus Plateau Mining Company - Water Quality Data

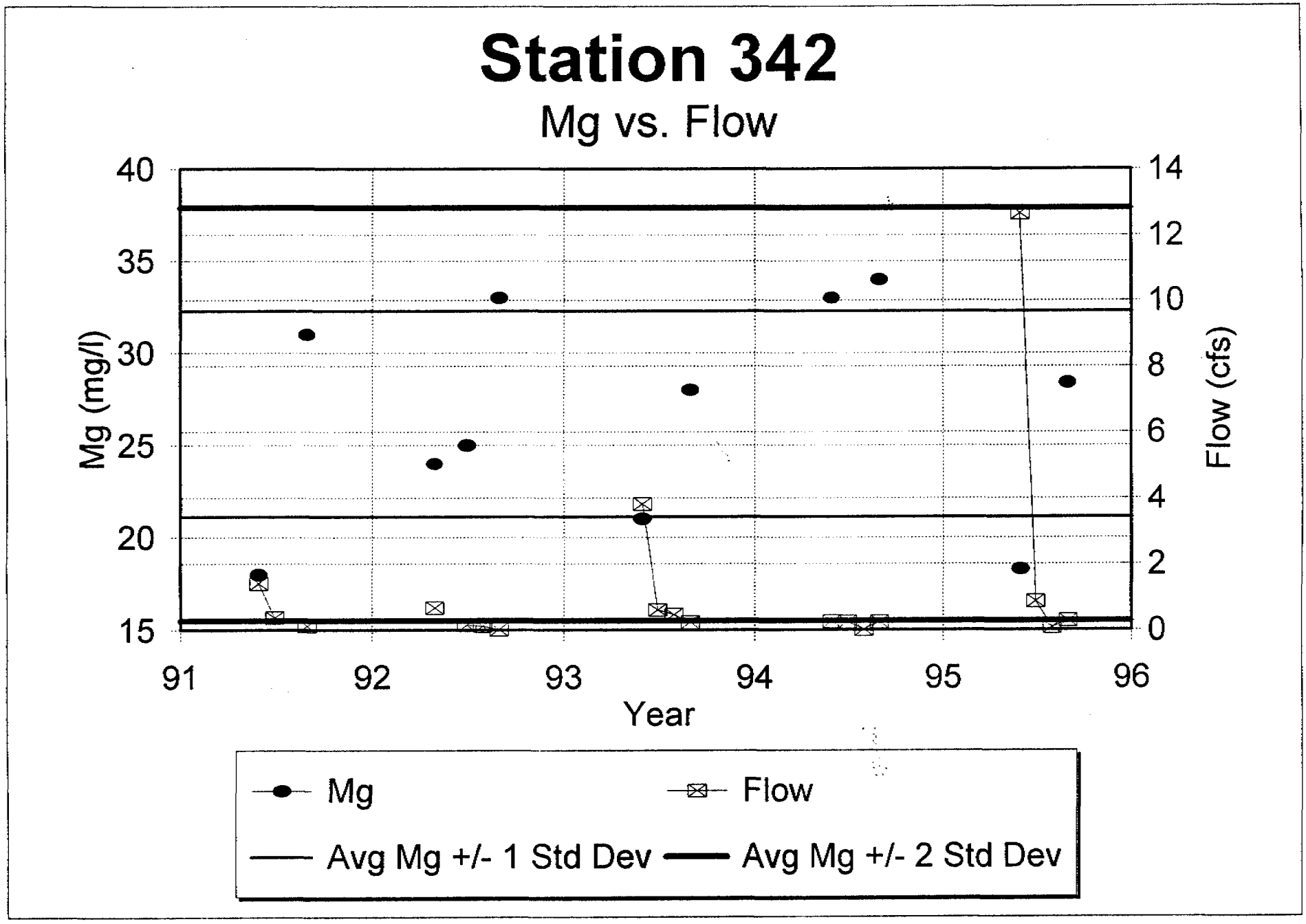
Station: ST1 | Property: Star Point | Location: 2250' S 2250' W of NE corn. Sec 20, T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Print Date: May 6, 1996 | Elevation: 7855

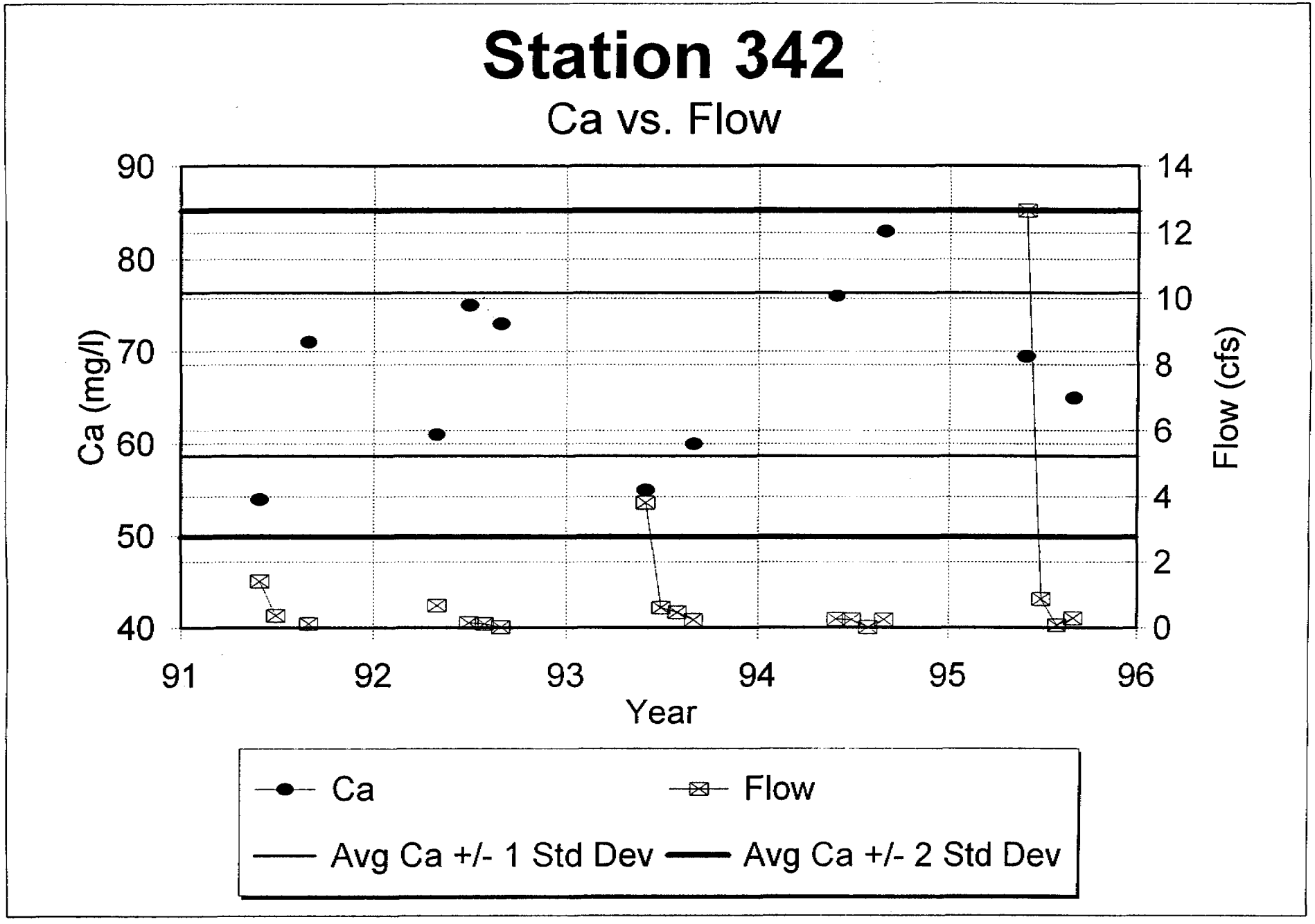
Date		Field Measurements				Laboratory Measurements																		
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	NO3 (D) (mg/l)	NO2 (D) (mg/l)	Comments
Jan-80																								
Feb-80																								
Mar-80																								
Apr-80																								
May-80																								
Jun-80																								
Jul-80																								
Aug-80	08/28/80					1190																		
Sep-80	09/17/80					1330																		
Oct-80																								
Nov-80																								
Dec-80																								
Jan-81	01/27/81	0.2				1054																		
Feb-81	02/18/81	0.05				1020																		
Mar-81																								
Apr-81	04/28/81	0.5				845																		
May-81																								
Jun-81	06/22/82	0.4				240																		
Jul-81																								
Aug-81																								
Sep-81																								
Oct-81																								
Nov-81																								
Dec-81																								
Jan-82																								
Feb-82																								
Mar-82																								
Apr-82																								
May-82																								
Jun-82																								
Jul-82																								
Aug-82																								
Sep-82																								
Oct-82																								
Nov-82																								
Dec-82																								
Jan-83																								
Feb-83																								
Mar-83	03/24/83																							IN-ACCESSIBLE - SNOW
Apr-83	04/21/83																							IN-ACCESSIBLE - SNOW
May-83	05/12/83																							IN-ACCESSIBLE - SNOW
Jun-83	06/29/83	1.5				394																		
Jul-83																								
Aug-83																								
Sep-83																								
Oct-83	10/04/83	0.35				1270																		
Nov-83																								
Dec-83																								
Jan-84	01/06/84	0.43				1215																		
Feb-84																								
Mar-84	03/30/84																							IN-ACCESSIBLE - MUDD
Apr-84																								
May-84																								
Jun-84	06/21/84	0.35				702																		
Jul-84																								
Aug-84																								
Sep-84																								
Oct-84						1104																		
Nov-84																								
Dec-84																								
Jan-85																								
Feb-85	02/21/85																							IN-ACCESSIBLE - SNOW
Mar-85	03/31/85	0.55				751																		
Apr-85																								
May-85																								
Jun-85	06/13/85	2				645																		
Jul-85																								
Aug-85																								
Sep-85	09/27/85	0.15				1130																		
Oct-85																								
Nov-85																								
Dec-85																								
Jan-86																								
Feb-86																								
Mar-86	03/28/86	0.82				879																		
Apr-86																								
May-86																								
Jun-86	06/12/86	0.31				488																		
Jul-86																								

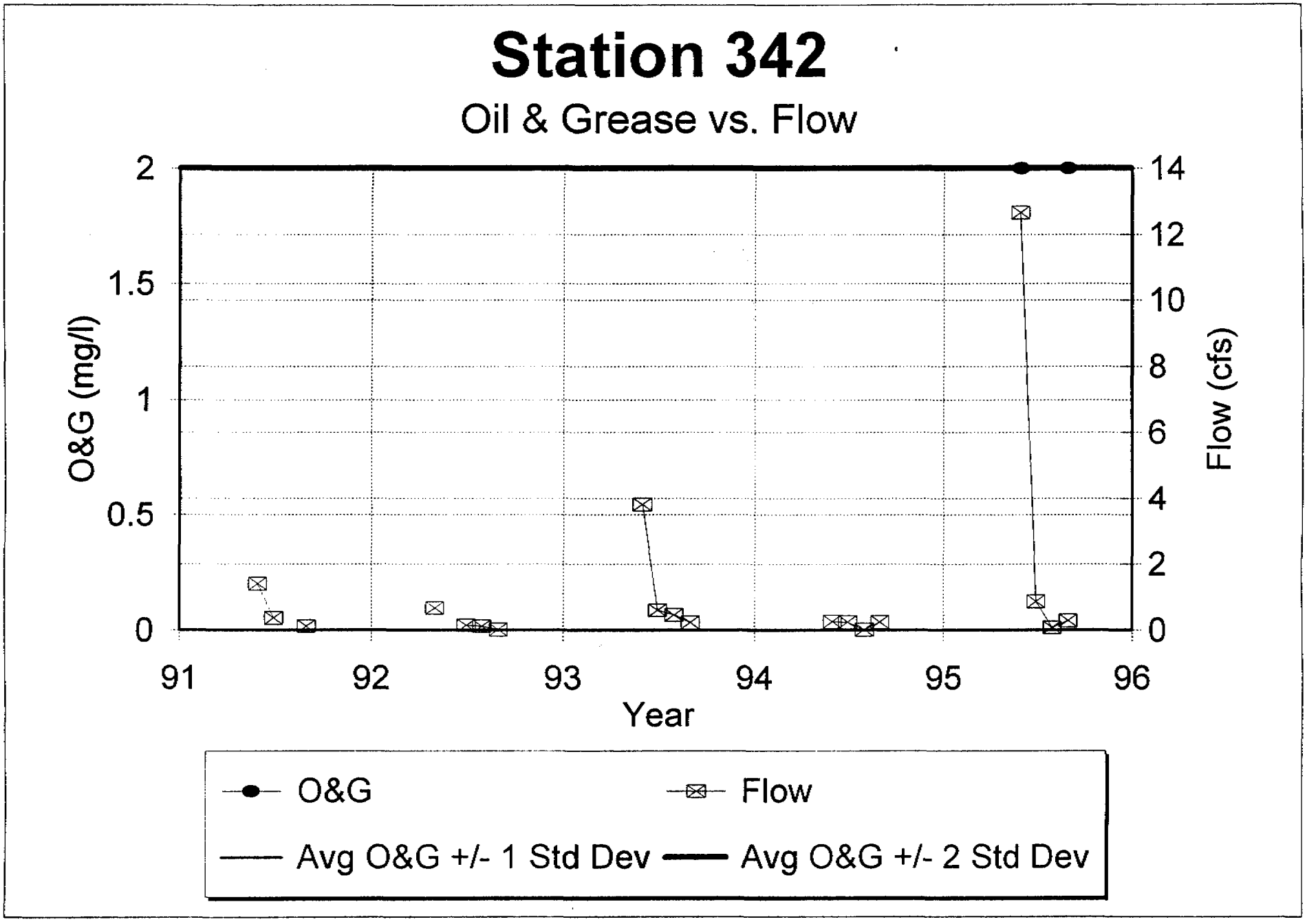

Station 342
SO4 vs. Flow
100
80
60
40
20
0
-20
SO4 (mg/l)
14
12
10
8
6
4
2
0
Flow (cfs)
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

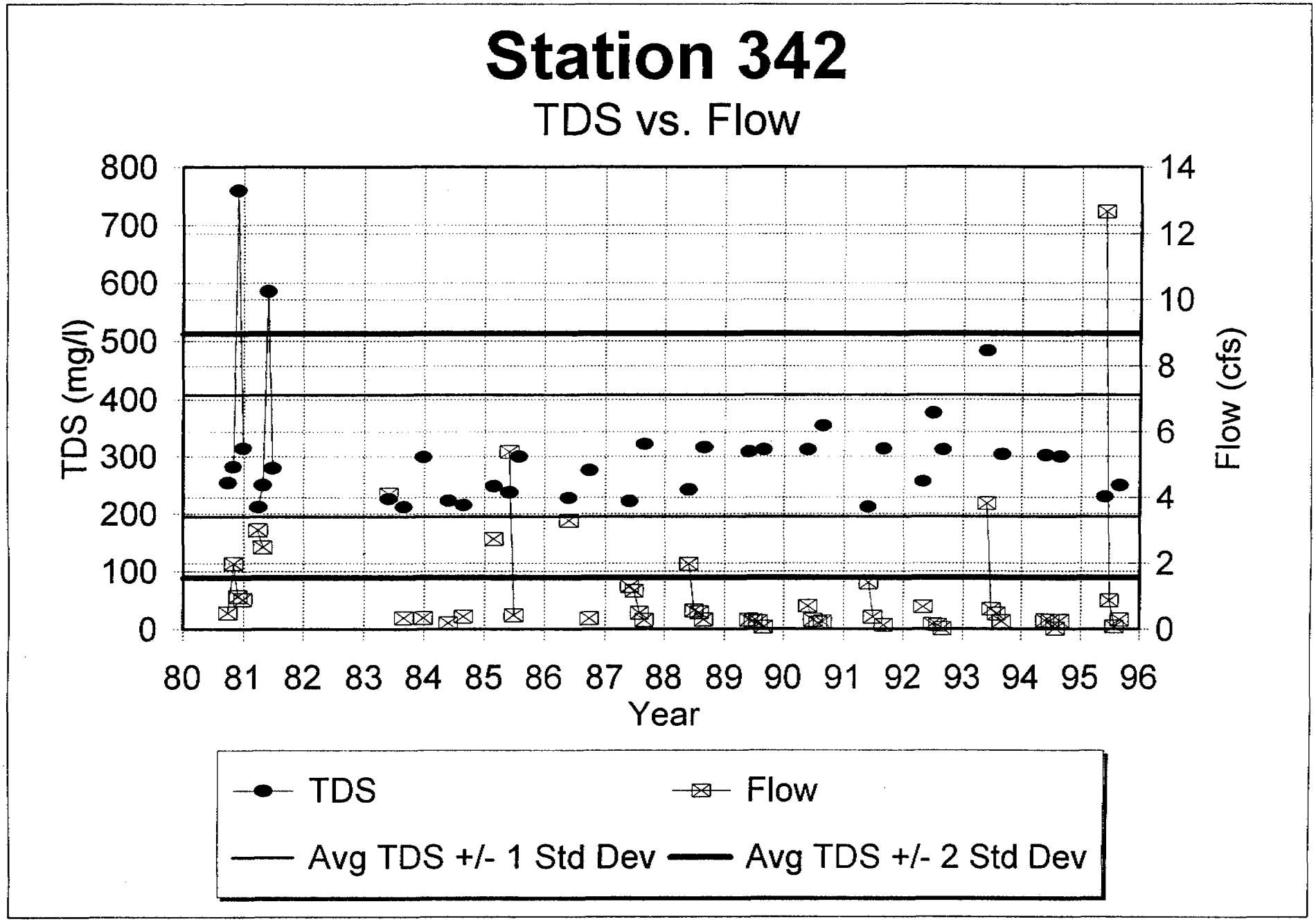

Station 342
HCO3 vs. Flow
400
350
300
250
200
150
HCO3 (mg/l)
14
12
10
8
6
4
2
0
Flow (cfs)
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

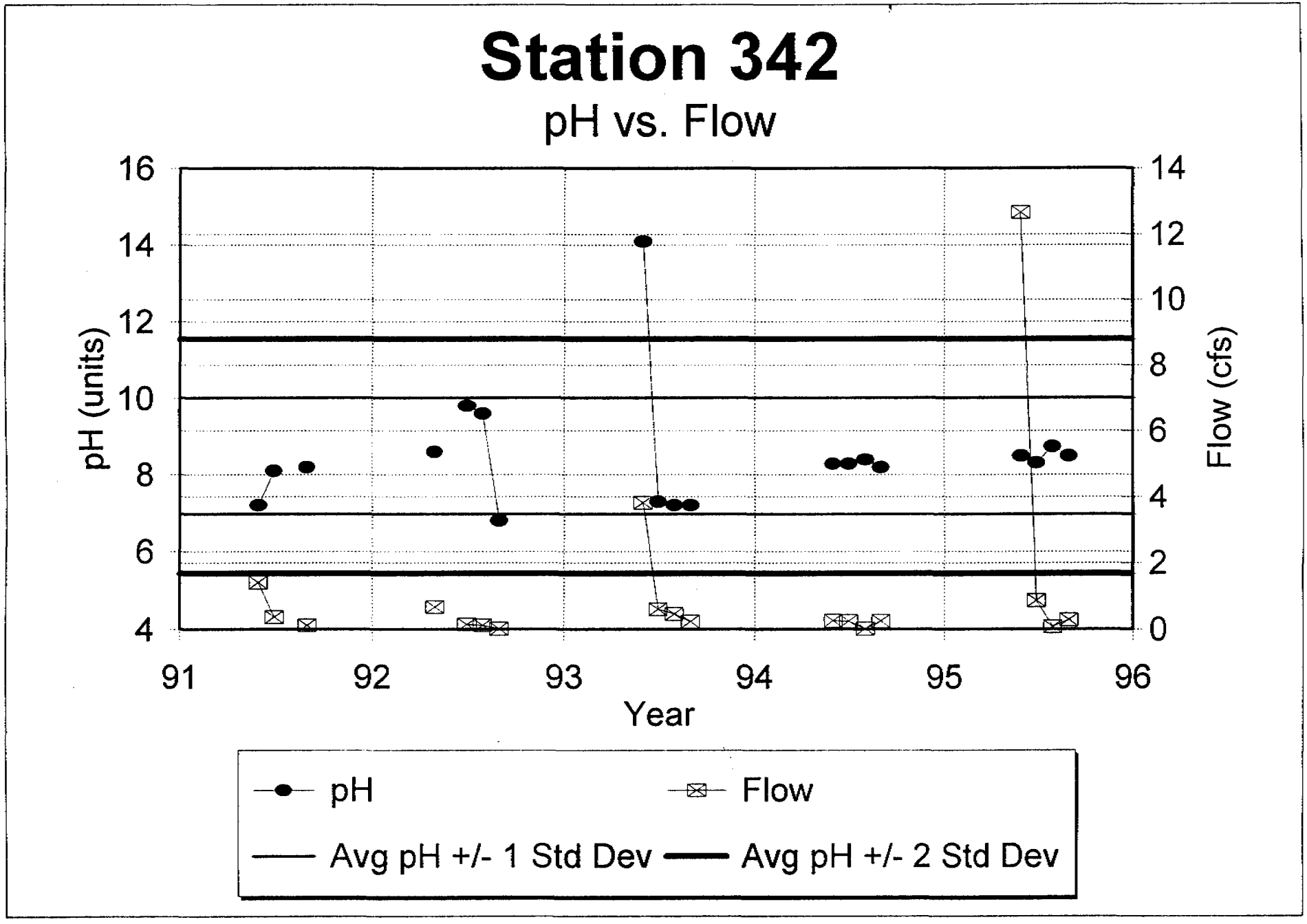

Station 342
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
4
3.5
3
2.5
2
1.5
1
14
12
10
8
6
4
2
0
91
92
93
94
95
96
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

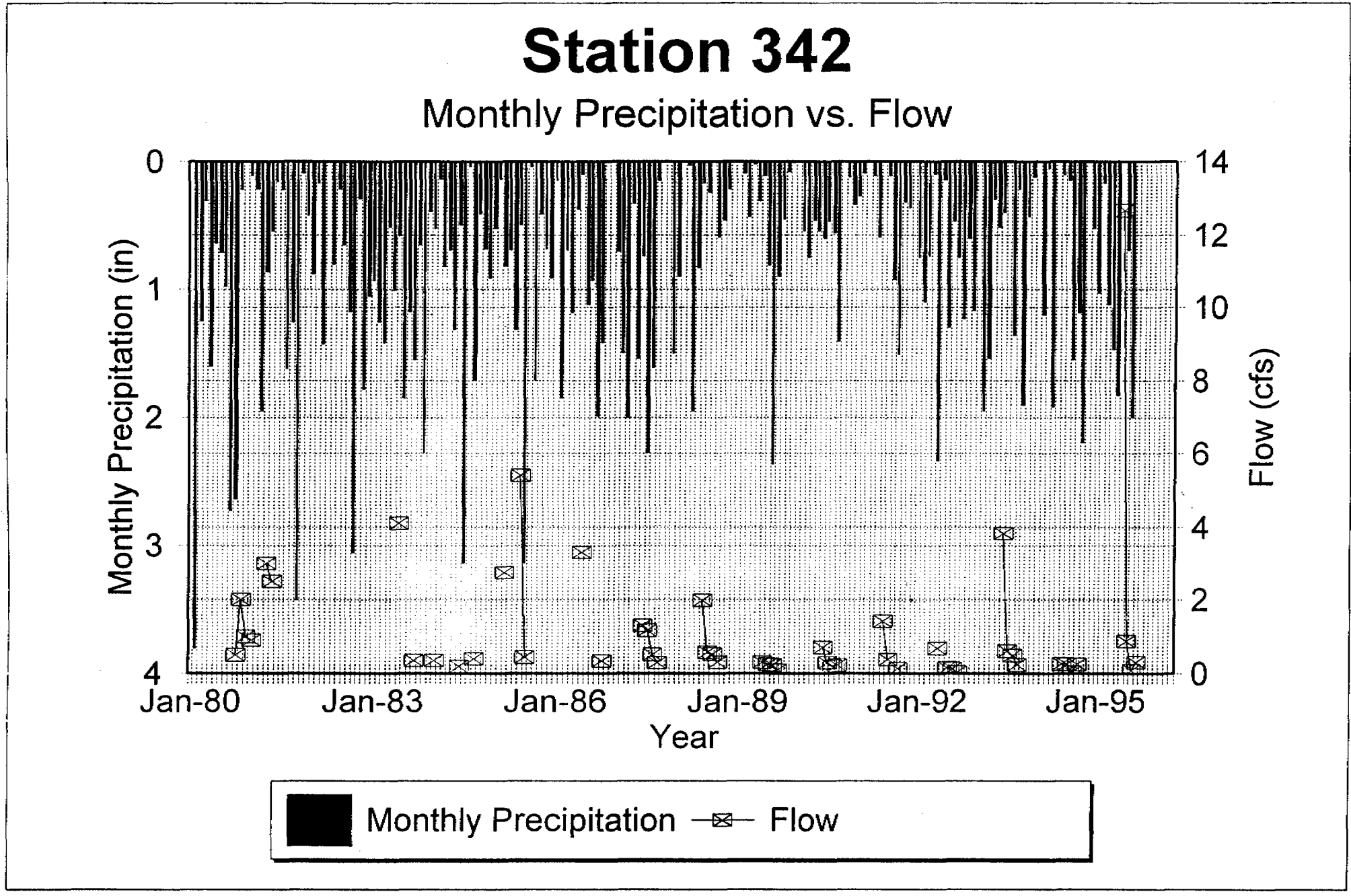

Station 342
Mg vs. Flow
Mg (mg/l)
40
35
30
25
20
15
Flow (cfs)
14
12
10
8
6
4
2
0
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 342
Ca vs. Flow
Ca (mg/l)
Flow (cfs)
Year
90
80
70
60
50
40
14
12
10
8
6
4
2
0
91
92
93
94
95
96
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 342
Oil & Grease vs. Flow
O&G (mg/l)
Flow (cfs)
Year
2
1.5
1
0.5
0
14
12
10
8
6
4
2
0
91
92
93
94
95
96
O&G
Flow
Avg O&G +/- 1 Std Dev
Avg O&G +/- 2 Std Dev


Station 342
TDS vs. Flow
TDS (mg/l)
Flow (cfs)
Year
800
700
600
500
400
300
200
100
0
14
12
10
8
6
4
2
0
80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 342
pH vs. Flow
pH (units)
16
14
12
10
8
6
4
Flow (cfs)
14
12
10
8
6
4
2
0
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev


Station 342
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
1
2
3
4
Flow (cfs)
14
12
10
8
6
4
2
0
Jan-80
Jan-83
Jan-86
Jan-89
Jan-92
Jan-95
Year
Monthly Precipitation
Flow

Cyprus Plateau Mining Company - Water Quality Data

Station: 342 Property: Star Point Location: 1250' N 500' W of SE corn. Sec 34, T15S, R7E Station Type: Stream Sampling Frequency: Quarterly Formation: Print Date: April 26, 1996 Elevation: 7900

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92																							
May-92	05/20/92	0.68	8.6	463	8.8	256	10		251	261	2	1	45	61	24	1	3	<	0.02	0.15			
Jun-92																							
Jul-92	07/15/92	0.16	9.8	552	9.4	376 <	2		290	310	2	3	41	75	25	1	3	<	0.02	0.06			
Aug-92	08/24/92	0.13	9.6	558	9.1																		
Sep-92	09/21/92	0.037	6.8	588	7.6	312	8		318	261	10	3	86	73	33	2	3	<	0.02	0.06			
Oct-92																							
Nov-92																							
Dec-92																							
Jan-93																							
Feb-93																							
Mar-93																							
Apr-93																							
May-93																							
Jun-93	06/22/93	3.82	14.1	862	13.8	484 <	4		448	281	0	2	2	55	21	1	3	<	0.02	0.05 <	0.01		
Jul-93	07/22/93	0.61	7.3	437	10.9																		
Aug-93	08/18/93	0.48	7.2	506	8.7																		
Sep-93	09/27/93	0.24	7.2	546	8.4	304	2		265	320	0	3	33	60	28	2	3	<	0.02	0.08 <	0.01		
Oct-93																							
Nov-93																							
Dec-93																							
Jan-94																							
Feb-94																							
Mar-94																							
Apr-94																							
May-94																							
Jun-94	06/28/94	0.263	8.3	641	9.5	302 <	2		325	344	0	3	31	76	33	2	5		0.08	0.12	0.02		
Jul-94	07/20/94	0.261	8.3	230	10																		
Aug-94	08/31/94	0.036	8.4	500	14.3																		
Sep-94	09/21/94	0.26	8.2	496	12.2	300 <	2		347	383	0	3	33	83	34	2	4	<	0.02	0.03 <	0.01		
Oct-94																							
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95																							
Mar-95																							
Apr-95																							
May-95																							
Jun-95	06/22/95	12.66	8.5	490	3.5	230	30 <	2	249	245 <	2	3 <	10	69.5	18.3	0.9	2.6	0.3	0.06	0.2	0.015		
Jul-95	07/26/95	0.88	8.32	456	7																		
Aug-95	08/28/95	0.09	8.74	474	13																		
Sep-95	09/27/95	0.3	8.5	569	8	250 <	5 <	2	279	238 <	2	3	12	65	28.4	1.4	3.5	6.1 <	0.01	0.07	0.011		
Oct-95																							
Nov-95																							
Dec-95																							
Jan-96																							
END DATA																							
Count		51	19	19	19	37	9	2	11	11	11	11	11	11	11	11	11	2	11	11	8		
Minimum		0.036	6.8	230	3.5	212 <	2 <	2	209	238 <	0	1 <	2	54	18	0.9	2	0.3 <	0.01	0.03 <	0.01		
Maximum		12.66	14.1	862	14.3	760 <	30 <	2	448	383 <	10	3 <	86	83	34	2	5	6.1 <	0.08	0.6 <	0.02		
Average		1.1627	8.4926	514.63	9.1684	300.89 <	7.2222 <	2	298.73	295.09 <	2.5455	2.7273 <	29.273	67.5	26.7	1.5727	3.3727	3.2 <	0.0318	0.1382 <	0.0145		
Standard Deviation		2.0084	1.525	115.95	2.7005	106.01 <	8.5085 <	0	60.391	48.569 <	3.6273	0.6166 <	22.41	8.8343	5.5976	0.4826	0.8986	2.9 <	0.0221	0.1534 <	0.0045		
Avg. -1 Std. Dev.		-0.846	6.9676	398.68	6.4679	194.88 <	-1.286 <	2	238.34	246.52 <	-1.082	2.1107 <	6.8629	58.666	21.102	1.0901	2.4742	0.3 <	0.0097	-0.015 <	0.01		
Avg. +1 Std. Dev.		3.1711	10.018	630.58	11.869	406.9 <	15.731 <	2	359.12	343.66 <	6.1727	3.3438 <	51.683	76.334	32.298	2.0553	4.2713	6.1 <	0.0539	0.2916 <	0.019		
Avg. -2 Std. Dev.		-2.854	5.4426	282.73	3.7674	88.869 <	-9.795 <	2	177.94	197.95 <	-4.709	1.4941 <	-15.55	49.831	15.505	0.6075	1.5756	-2.6 <	-0.012	-0.169 <	0.0054		
Avg. +2 Std. Dev.		5.1794	11.543	746.53	14.569	512.91 <	24.239 <	2	419.51	392.23 <	9.8	3.9604 <	74.092	85.169	37.895	2.5379	5.1699	9 <	0.076	0.4449 <	0.0236		

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 26, 1996

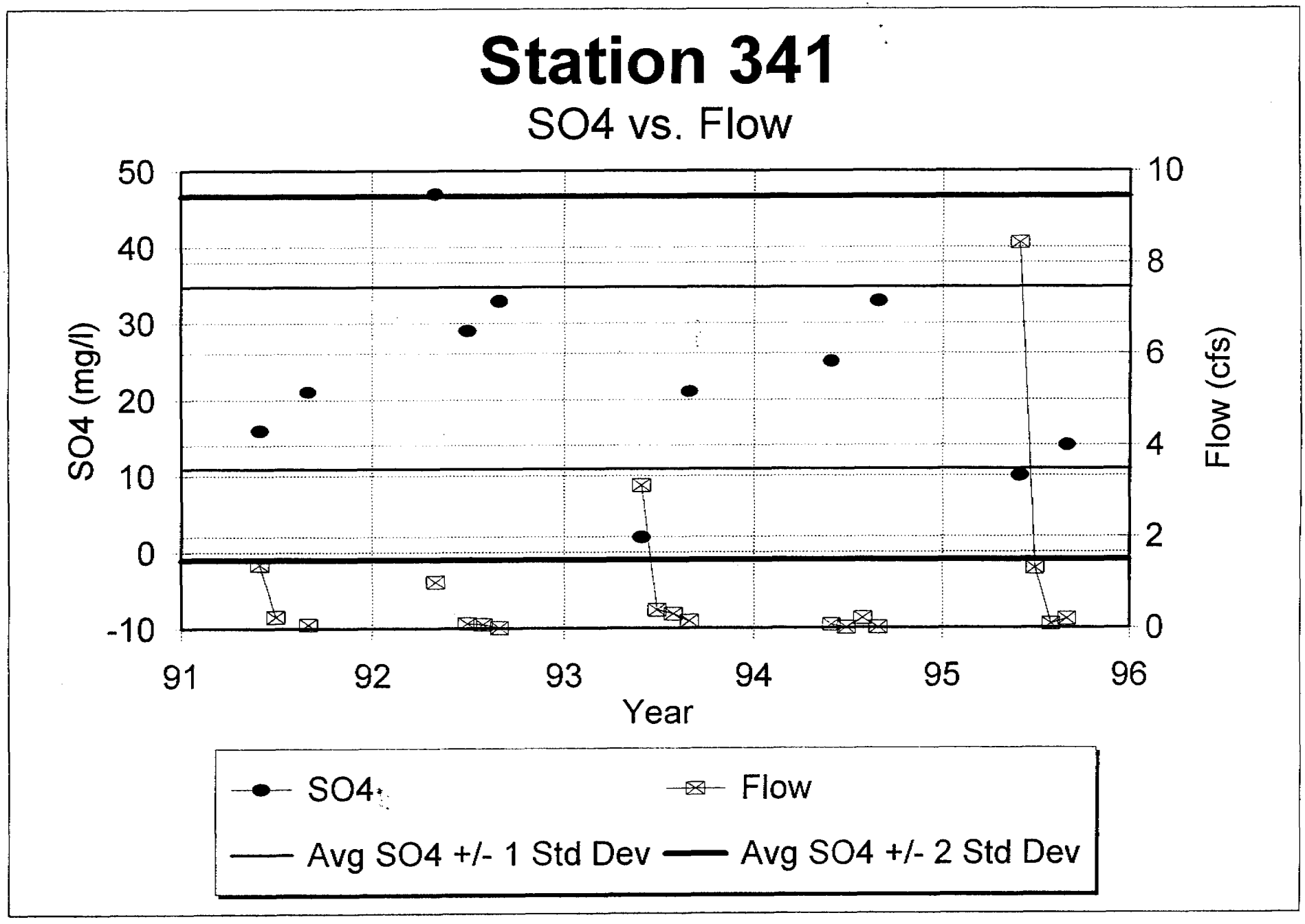
Station: 342 | Property: Star Point | Location: 1250' N 500' W of SE corn. Sec 34, T15S, R7E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 7900

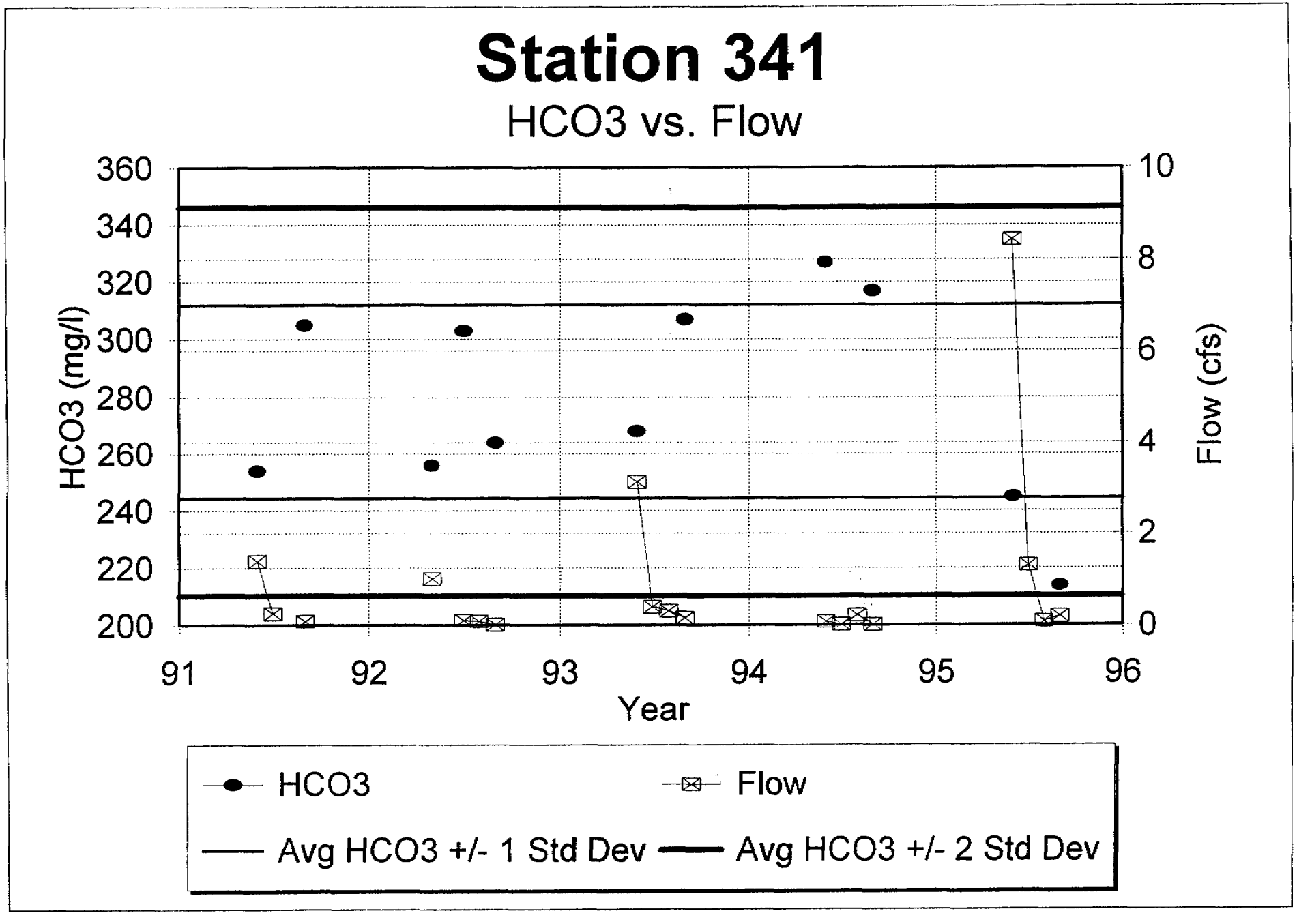
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86																						
Jun-86	06/12/86	3.3				228																
Jul-86																						
Aug-86																						
Sep-86																						
Oct-86	10/03/86	0.34				276																
Nov-86																						
Dec-86																						
Jan-87																						
Feb-87																						
Mar-87																						
Apr-87																						
May-87																						
Jun-87	06/27/87	1.3				222																
Jul-87	07/16/87	1.17																				
Aug-87	08/12/87	0.51																				
Sep-87	09/23/87	0.29				322																
Oct-87																						
Nov-87																						
Dec-87																						
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88	06/02/88	1.98				242																
Jul-88	07/09/88	0.57																				
Aug-88	08/20/88	0.52																				
Sep-88	09/03/88	0.3				316																
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89	06/07/89	0.3				308																
Jul-89	07/11/89	0.26																				
Aug-89	08/23/89	0.23																				
Sep-89	09/14/89	0.08				312																
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90																						
Jun-90	06/02/90	0.71				312																
Jul-90	07/06/90	0.29																				
Aug-90	08/22/90	0.2																				
Sep-90	09/24/90	0.23				354																
Oct-90																						
Nov-90																						
Dec-90																						
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91	06/12/91	1.41	7.2	460	6	212			209	244	10	3	10	54	18	2	2	<	0.02	0.6	0.02	
Jul-91	07/16/91	0.38	8.1	520	8																	
Aug-91																						
Sep-91	09/17/91	0.13	8.2	430	6	314			305	359	0	3	19	71	31	2	5		0.06	0.1	0.02	
Oct-91																						
Nov-91																						
Dec-91																						

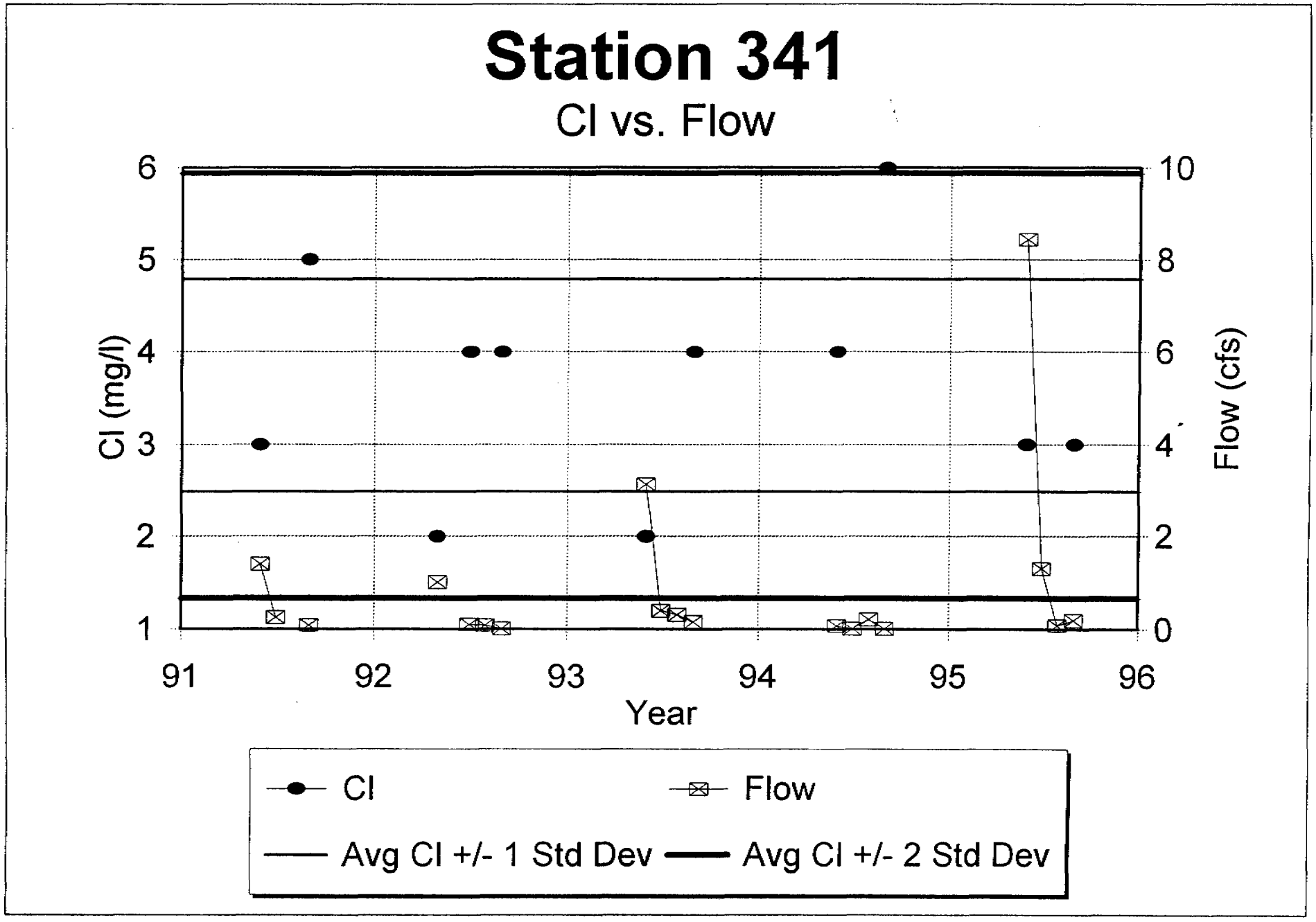
Cyprus Plateau Mining Company - Water Quality Data

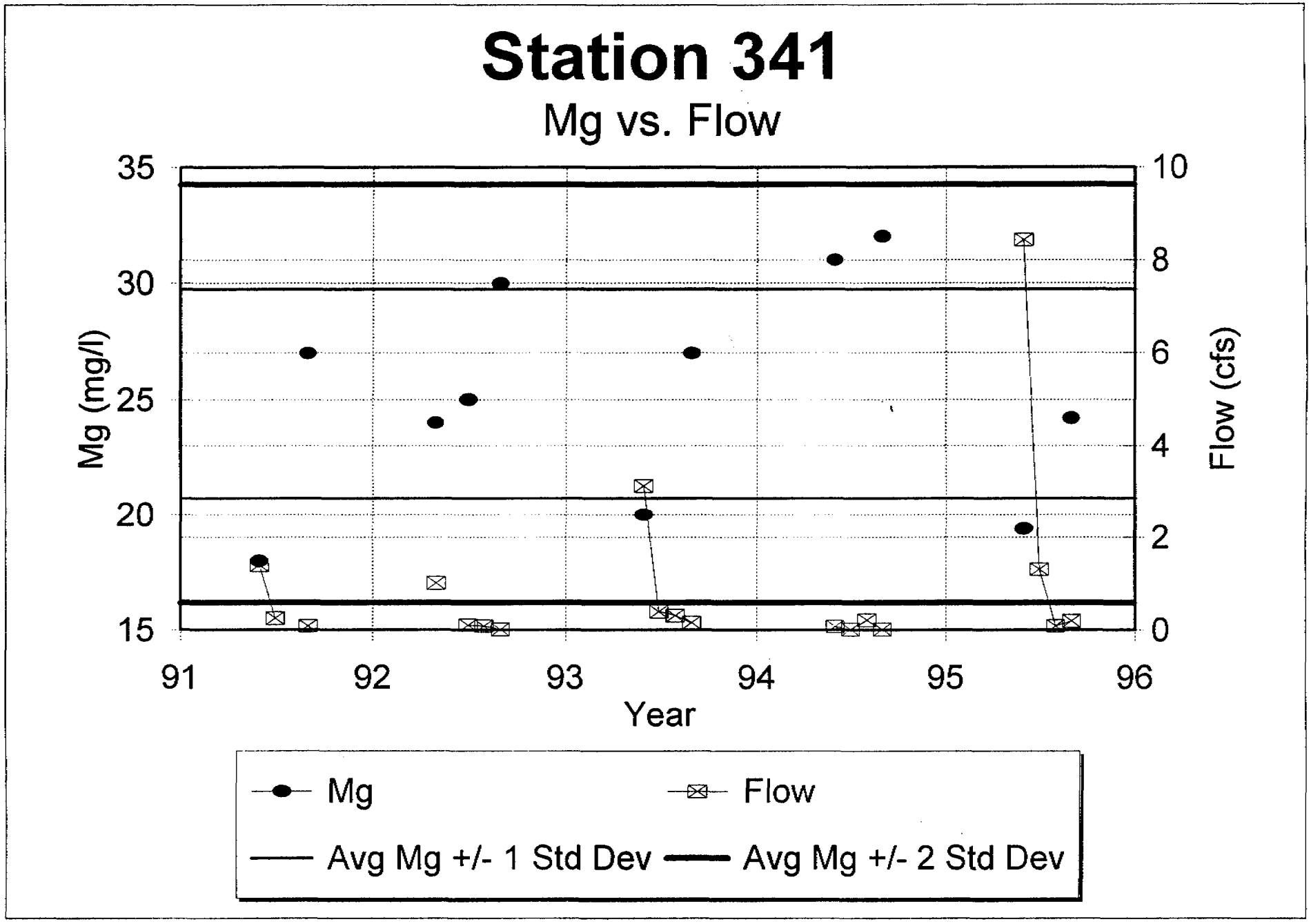
Station: 342 Property: Star Point Location: 1250' N 500' W of SE corn. Sec 34, T15S, R7E Station Type: Stream Sampling Frequency: Quarterly Formation: Print Date: April 26, 1996 Elevation: 7900

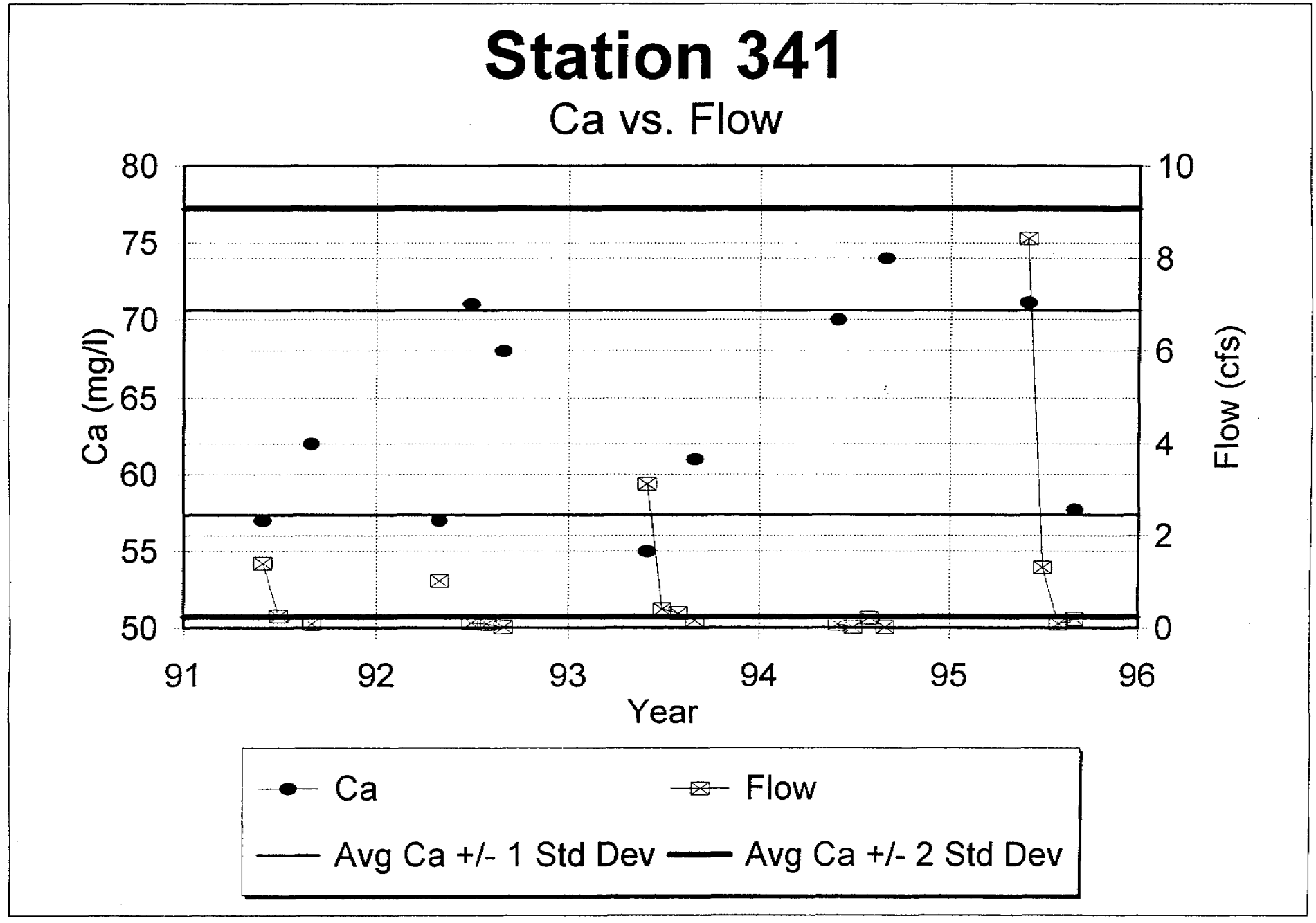
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-80																						
Feb-80																						
Mar-80																						
Apr-80																						
May-80																						
Jun-80																						
Jul-80																						
Aug-80																						
Sep-80																						
Oct-80	10/03/80	0.5				255																
Nov-80	11/10/80	2				282																
Dec-80	12/30/80	1				760																
Jan-81	01/26/81	0.9				315																
Feb-81	02/04/81																					IN-ACCESSIBLE
Mar-81	03/25/81																					IN-ACCESSIBLE
Apr-81	04/28/81	3				212																
May-81	05/28/81	2.5				251																
Jun-81	06/27/81					586																
Jul-81	07/31/81					280																
Aug-81																						
Sep-81																						
Oct-81																						
Nov-81	11/24/81																					IN-ACCESSIBLE
Dec-81	12/29/81																					IN-ACCESSIBLE
Jan-82																						
Feb-82																						
Mar-82																						
Apr-82																						
May-82																						
Jun-82																						
Jul-82																						
Aug-82																						
Sep-82																						
Oct-82																						
Nov-82																						
Dec-82																						
Jan-83																						
Feb-83																						
Mar-83	03/24/83																					IN-ACCESSIBLE - SNOW
Apr-83	04/21/83																					IN-ACCESSIBLE - SNOW
May-83	05/12/83																					IN-ACCESSIBLE - SNOW
Jun-83	06/29/83	4.1				226																IN-ACCESSIBLE - SNOW
Jul-83																						
Aug-83																						
Sep-83	09/07/83	0.35				212																IN-ACCESSIBLE - SNOW
Oct-83																						
Nov-83																						
Dec-83																						
Jan-84	01/05/84	0.35				299																
Feb-84																						
Mar-84	03/30/84																					IN-ACCESSIBLE
Apr-84																						
May-84																						
Jun-84	06/21/84	0.2				223																
Jul-84																						
Aug-84																						
Sep-84	09/21/84	0.4				215																
Oct-84																						
Nov-84																						
Dec-84	12/31/84																					ROAD SNOWED IN - ALT
Jan-85																						
Feb-85																						
Mar-85	03/31/85	2.75				248																
Apr-85																						
May-85																						
Jun-85	06/13/85	5.4				237																
Jul-85	08/15/85	0.44																				
Aug-85						300																
Sep-85																						
Oct-85																						
Nov-85																						
Dec-85																						

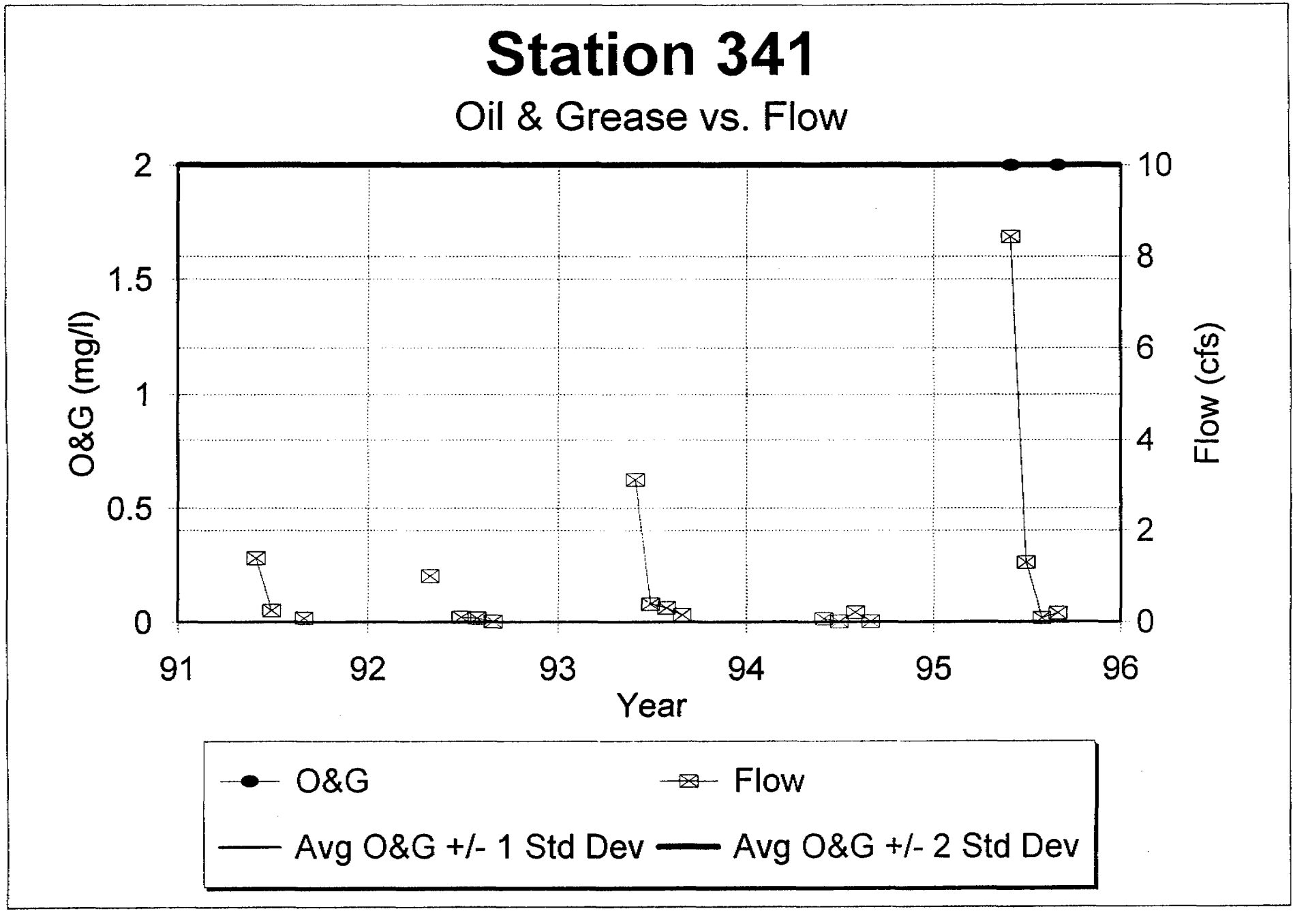

Station 341
SO4 vs. Flow
SO4 (mg/l)
Flow (cfs)
Year
50
40
30
20
10
0
-10
10
8
6
4
2
0
91
92
93
94
95
96
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

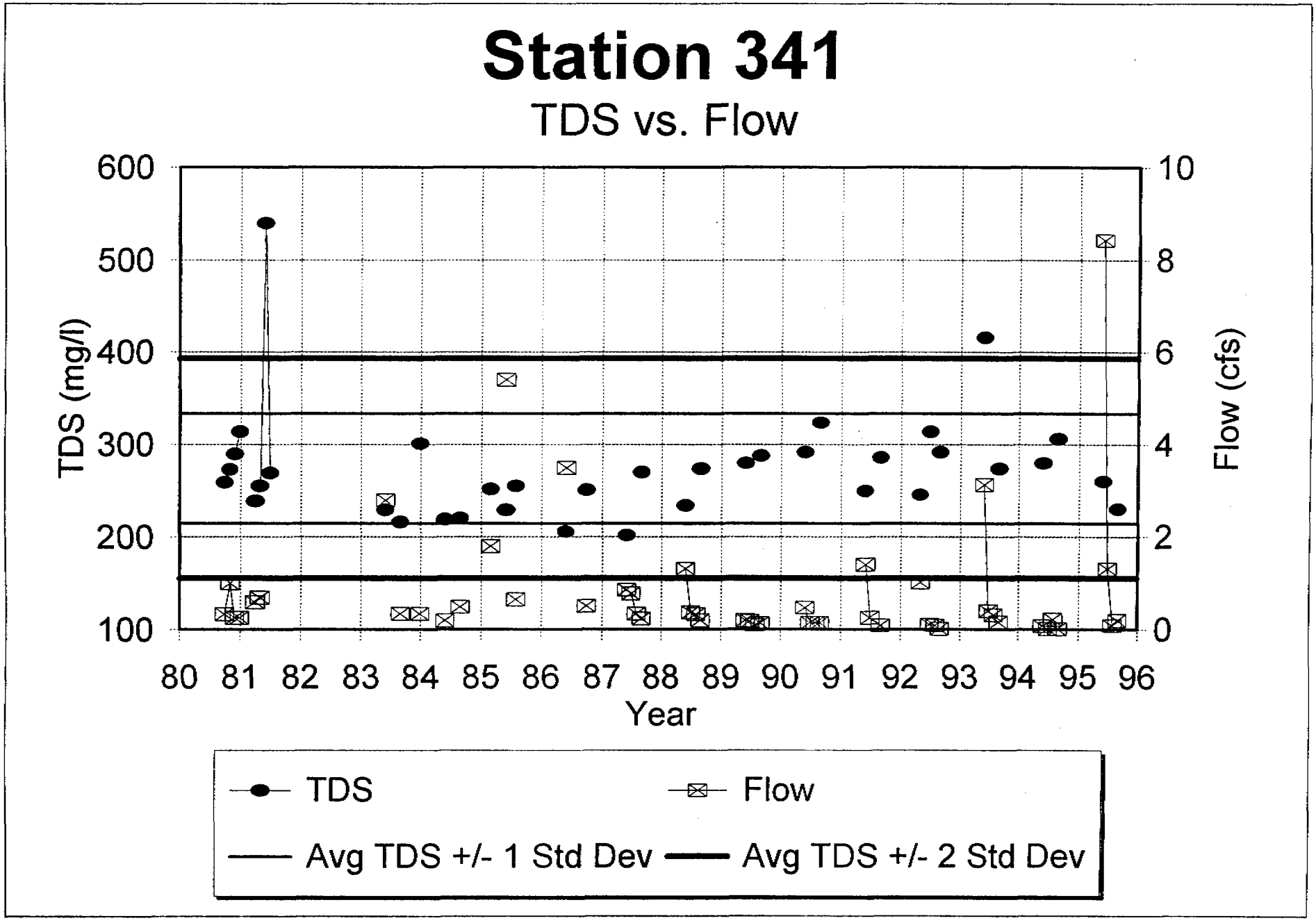

Station 341
HCO3 vs. Flow
HCO3 (mg/l)
360
340
320
300
280
260
240
220
200
Flow (cfs)
10
8
6
4
2
0
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

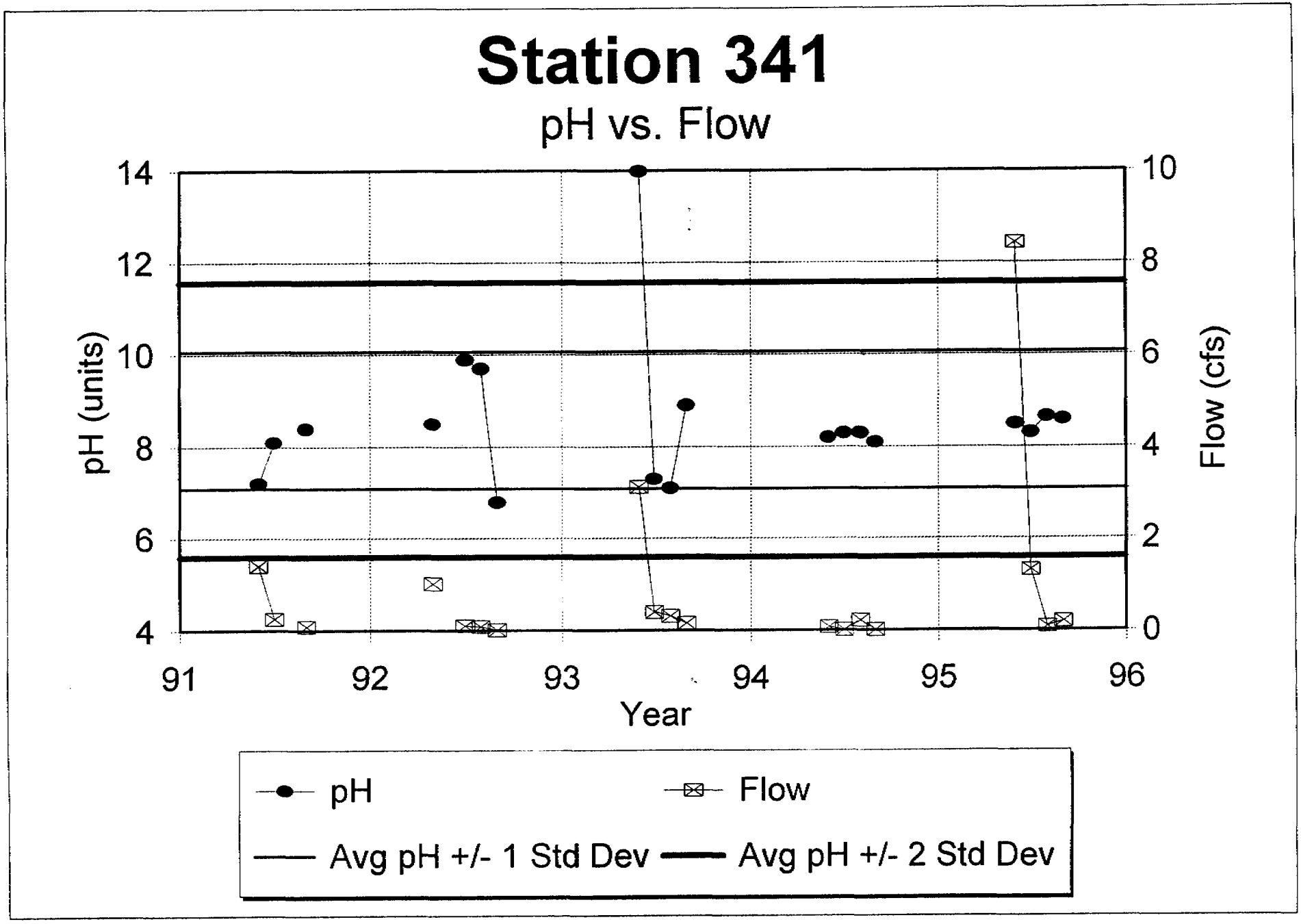

Station 341
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
6
5
4
3
2
1
10
8
6
4
2
0
91
92
93
94
95
96
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

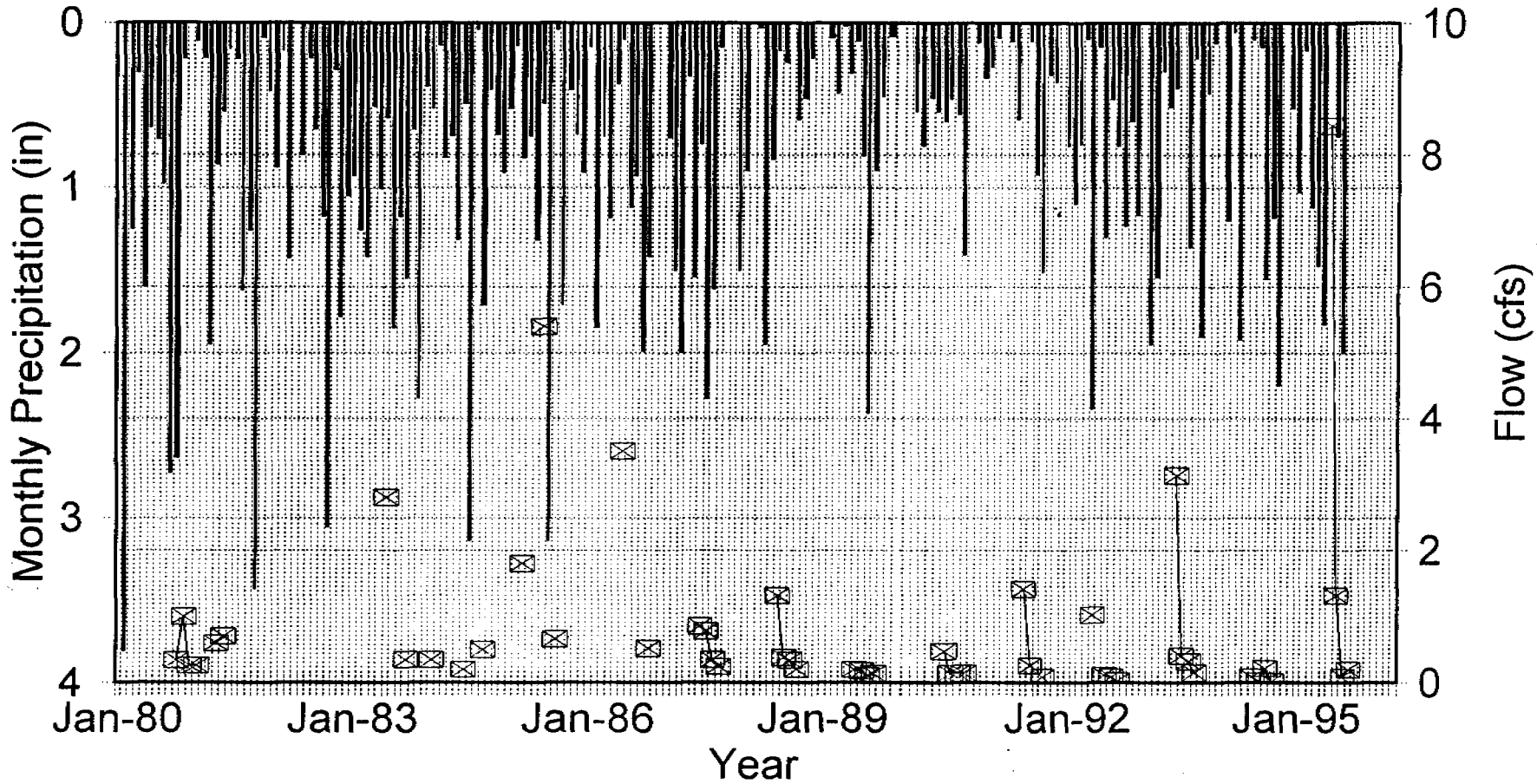

Station 341
Mg vs. Flow
Mg (mg/l)
35
30
25
20
15
Flow (cfs)
10
8
6
4
2
0
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 341
Ca vs. Flow
Ca (mg/l)
80
75
70
65
60
55
50
Flow (cfs)
10
8
6
4
2
0
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 341
Oil & Grease vs. Flow
O&G (mg/l)
Flow (cfs)
Year
2
1.5
1
0.5
0
10
8
6
4
2
0
91
92
93
94
95
96
O&G
Flow
Avg O&G +/- 1 Std Dev
Avg O&G +/- 2 Std Dev


Station 341
TDS vs. Flow
600
500
400
300
200
100
TDS (mg/l)
10
8
6
4
2
0
Flow (cfs)
80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 341
pH vs. Flow
14
12
10
8
6
4
pH (units)
10
8
6
4
2
0
Flow (cfs)
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev


Station 341
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
1
2
3
4
Flow (cfs)
10
8
6
4
2
0
Jan-80
Jan-83
Jan-86
Jan-89
Jan-92
Jan-95
Year
Monthly Precipitation
Flow

Cyprus Plateau Mining Company - Water Quality Data

Station: 341 | Property: Star Point | Location: 1375' N 750' W of SE corn. Sec 34, T15S, R7E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Print Date: April 26, 1996 | Elevation: 7960

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92	05/20/92	1.02	8.5	454	7.1	246				256	5	2	47	57	24	1	4	<	0.02 <	0.02		
Jun-92																						
Jul-92	07/15/92	0.11	9.9	507	7.6	314				303	2	4	29	71	25 <	1	4	<	0.02 <	0.02		
Aug-92	08/24/92	0.09	9.7	512	7.9																	
Sep-92	09/21/92	0.024	6.8	528	6.2	292				264	14	4	33	68	30	1	4	<	0.02 <	0.02		
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/22/93	3.13	14	828	12	416				268	0	2	2	55	20	1	3	<	0.02 <	0.02 <	0.01	
Jul-93	07/22/93	0.41	7.3	389	9.8																	
Aug-93	08/18/93	0.32	7.1	440	7.3																	
Sep-93	09/27/93	0.16	8.9	467	8.9	274				307	0	4	21	61	27	1	4	<	0.02	0.03 <	0.01	
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/28/94	0.088	8.2	555	5.9	280				327	0	4	25	70	31	2	7	<	0.02	0.03 <	0.01	LAB FILTRATION REQUI
Jul-94	07/20/94	0.029	8.3	214	10.5																	
Aug-94	08/31/94	0.221	8.3	463	14.2																	
Sep-94	09/21/94	0.02	8.1	500	14.9	306				317	0	6	33	74	32	2	5	<	0.02	0.26	0.01	
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/22/95	8.44	8.5	461	3.5	260	46 <	2	257	245 <	2	3	10	71.1	19.4	1.1	2.8	0.4	0.06	0.21	0.014	
Jul-95	07/26/95	1.32	8.31	443	7																	All flows in cfs and temp. in
Aug-95	08/28/95	0.09	8.65	449	13																	
Sep-95	09/27/95	0.2	8.6	495	9	230 <	5 <	2	244	214 <	2	3	14	57.7	24.2	1.5	3.4	3.7 <	0.01 <	0.01 <	0.005	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
Count		51	19	19	19	37	2	2	2	11	10	11	11	11	11	11	11	2	11	11	8	
Minimum		0.02	6.8	214	3.5	202 <	5 <	2	244	214 <	0	2	2	55	18 <	1	2.8	0.4 <	0.01 <	0.01 <	0.005	
Maximum		8.44	14	828	14.9	540 <	46 <	2	257	327 <	14	6	47	74	32 <	2	7	3.7 <	0.06 <	0.26 <	0.014	
Average		0.8371	8.5716	473.95	8.5684	273.92 <	25.5 <	2	250.5	278.18 <	3.2	3.6364	22.818	63.982	25.236 <	1.3273	4.0182	2.05 <	0.0227 <	0.0773 <	0.0099	
Standard Deviation		1.4711	1.4914	109.06	3.0829	59.541 <	20.5 <	0	6.5	33.922 <	4.2379	1.1499	11.923	6.6271	4.5165 <	0.435	1.1199	1.65 <	0.0121 <	0.0844 <	0.0023	
Avg. -1 Std. Dev.		-0.634	7.0802	364.89	5.4855	214.38 <	5 <	2	244	244.26 <	-1.038	2.4864	10.896	57.355	20.72 <	0.8922	2.8983	0.4 <	0.0106 <	-0.007 <	0.0076	
Avg. +1 Std. Dev.		2.3082	10.063	583	11.651	333.46 <	46 <	2	257	312.1 <	7.4379	4.7863	34.741	70.609	29.753 <	1.7623	5.1381	3.7 <	0.0349 <	0.1617 <	0.0121	
Avg. -2 Std. Dev.		-2.105	5.5888	255.83	2.4026	154.84 <	-15.5 <	2	237.5	210.34 <	-5.276	1.3365	-1.027	50.728	16.203 <	0.4572	1.7783	-1.25 <	-0.002 <	-0.092 <	0.0054	
Avg. +2 Std. Dev.		3.7792	11.554	692.06	14.734	393 <	66.5 <	2	263.5	346.03 <	11.676	5.9362	46.663	77.236	34.269 <	2.1973	6.258	5.35 <	0.047 <	0.2461 <	0.0144	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 26, 1996

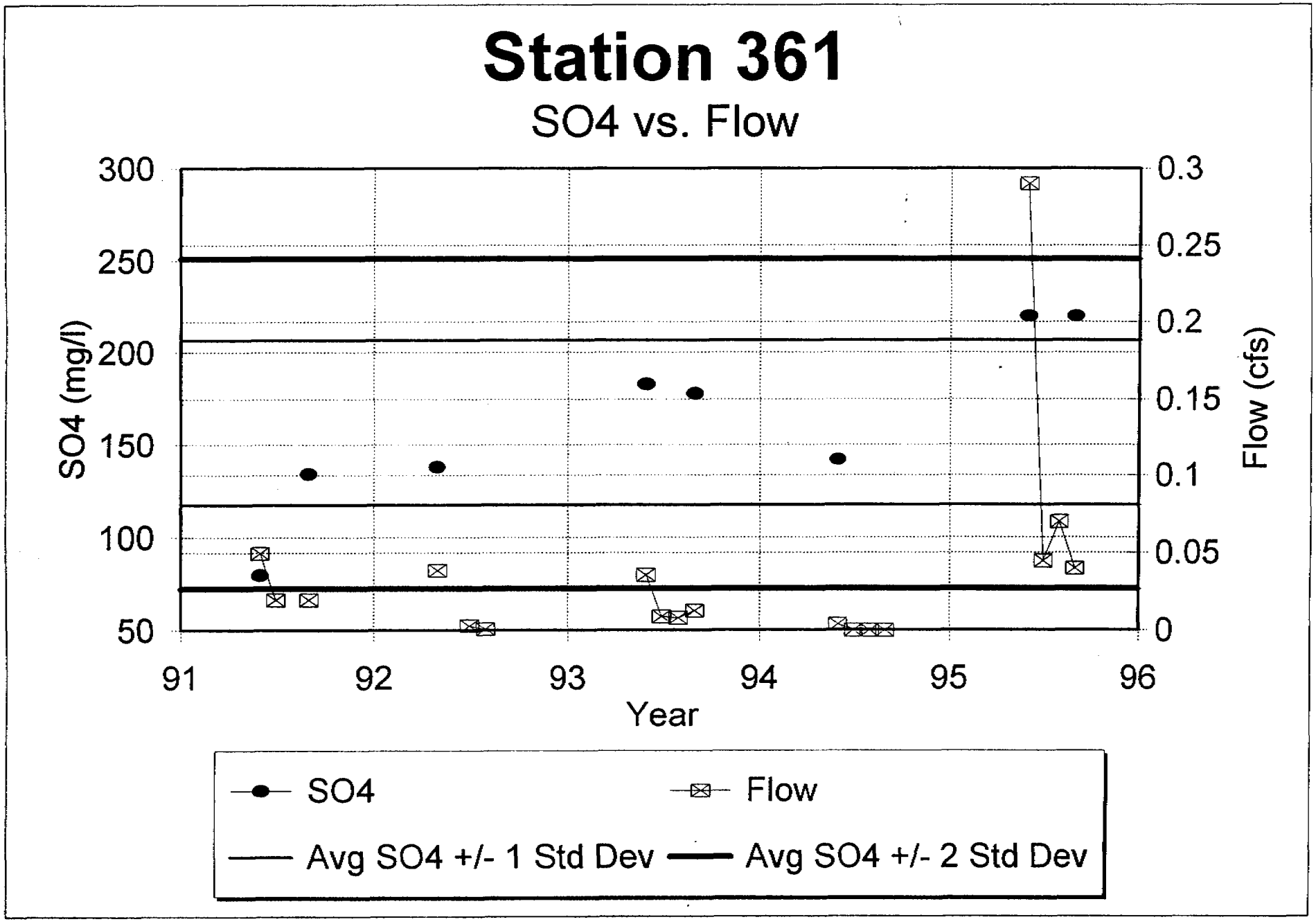
Station: 341 | Property: Star Point | Location: 1375' N 750' W of SE corn. Sec 34, T15S, R7E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 7960

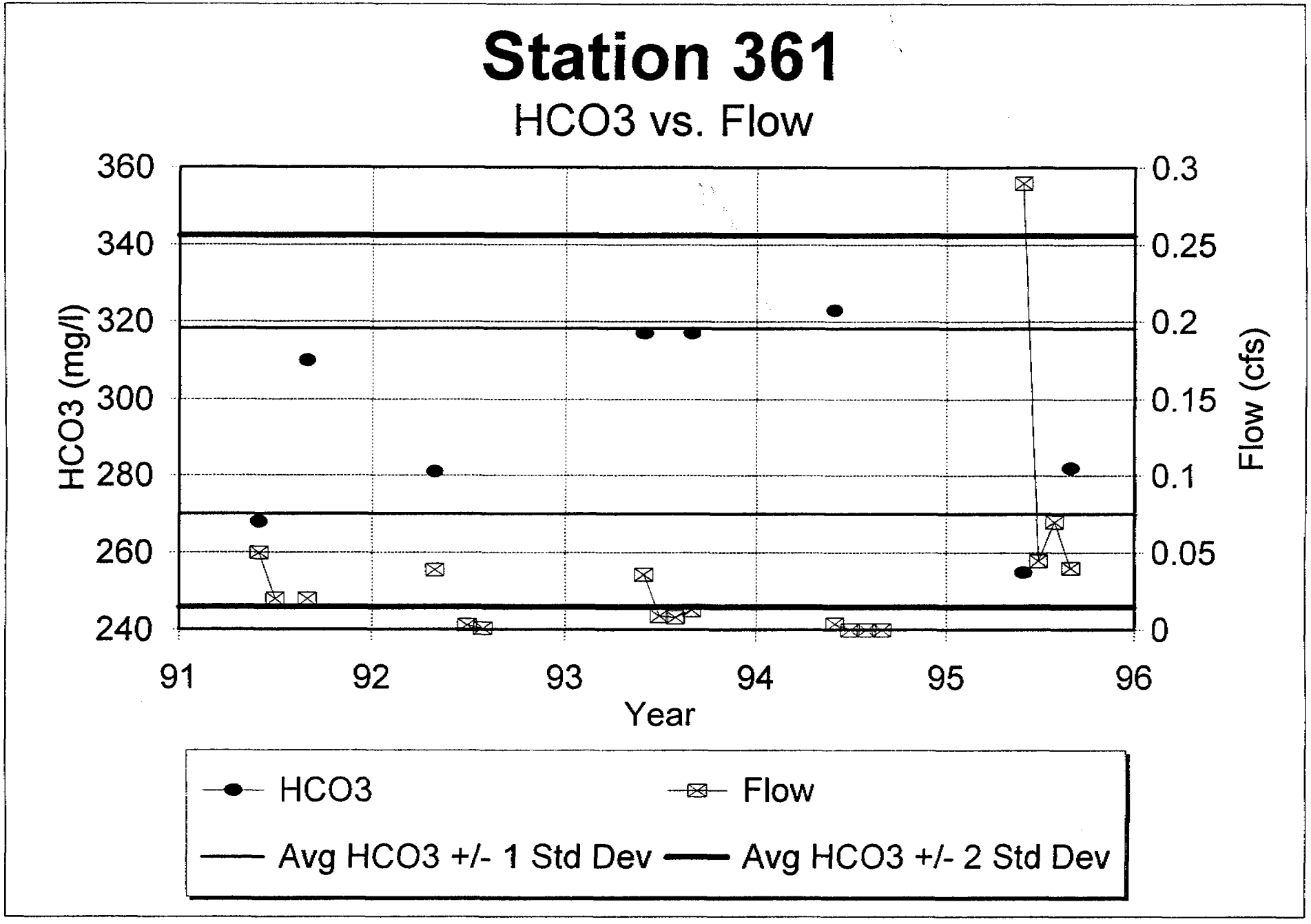
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-86																							
Feb-86																							
Mar-86																							
Apr-86																							
May-86																							
Jun-86	06/12/86	3.5				206																	
Jul-86																							
Aug-86																							
Sep-86																							
Oct-86	10/03/86	0.52				251																	
Nov-86																							
Dec-86																							
Jan-87																							
Feb-87																							
Mar-87																							
Apr-87																							
May-87																							
Jun-87	06/25/87	0.86				202																	
Jul-87	07/16/87	0.78																					
Aug-87	08/12/87	0.35																					
Sep-87	09/23/87	0.24				270																	
Oct-87																							
Nov-87																							
Dec-87																							
Jan-88																							
Feb-88																							
Mar-88																							
Apr-88																							
May-88																							
Jun-88	06/02/88	1.32				234																	
Jul-88	07/09/88	0.38																					
Aug-88	08/20/88	0.34																					
Sep-88	09/03/88	0.2				274																	
Oct-88																							
Nov-88																							
Dec-88																							
Jan-89																							
Feb-89																							
Mar-89																							
Apr-89																							
May-89																							
Jun-89	06/07/89	0.2				280																	
Jul-89	07/11/89	0.18																					
Aug-89	08/23/89	0.1																					
Sep-89	09/14/89	0.14				288																	
Oct-89																							
Nov-89																							
Dec-89																							
Jan-90																							
Feb-90																							
Mar-90																							
Apr-90																							
May-90																							
Jun-90	06/02/90	0.48				292																	
Jul-90	07/06/90	0.15																					
Aug-90	08/22/90	0.15																					
Sep-90	09/24/90	0.15				324																	
Oct-90																							
Nov-90																							
Dec-90																							
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91	06/12/91	1.41	7.2	460	5	250				254		3	16	57	18	2	3	<	0.02	0.15	< 0.01		
Jul-91	07/16/91	0.26	8.1	460	8																		
Aug-91																							
Sep-91	09/17/91	0.09	8.4	380	5	286				305	7	5	21	62	27	1	4	<	0.02	0.08	< 0.01		
Oct-91																							
Nov-91																							
Dec-91																							

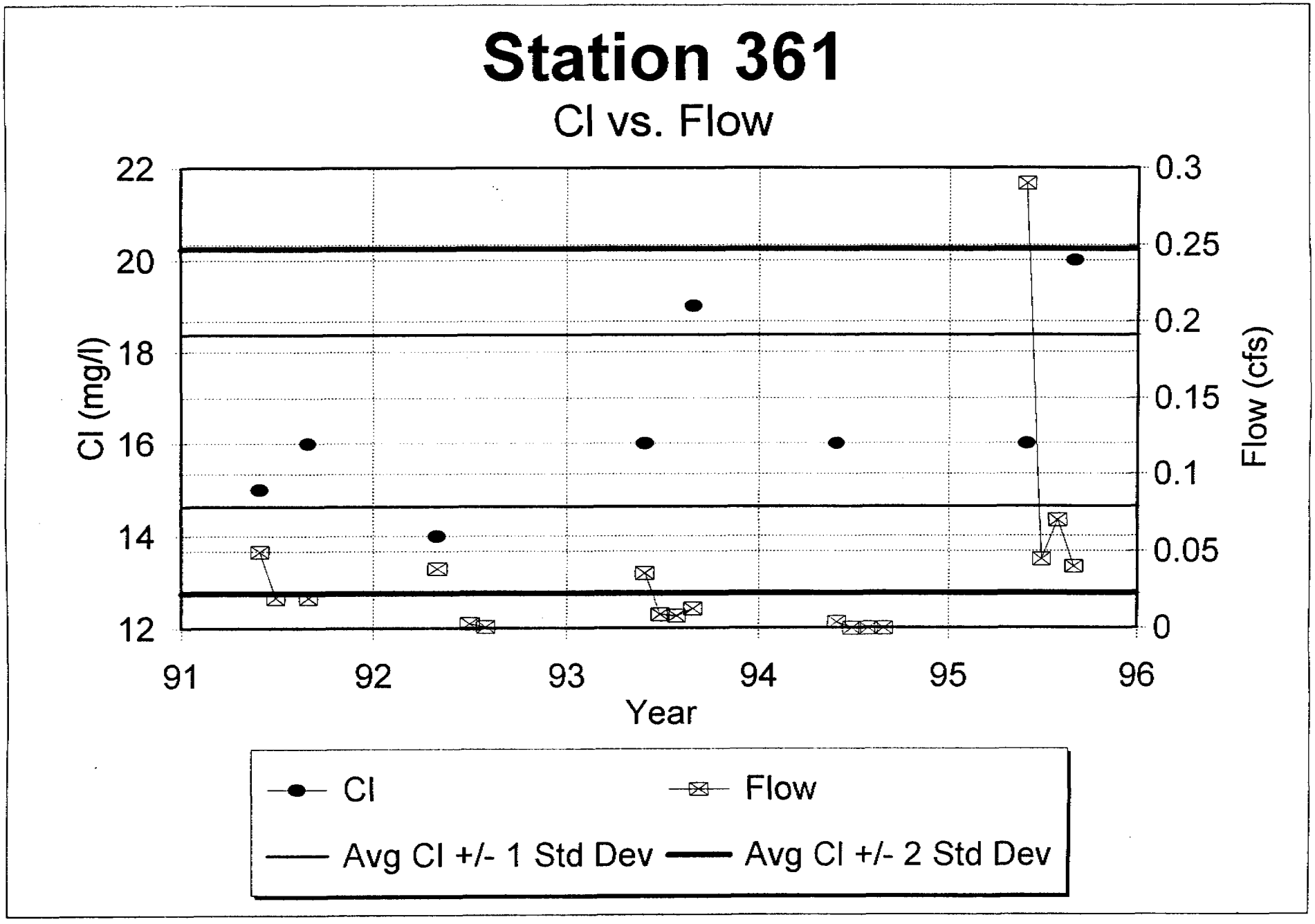
Cyprus Plateau Mining Company - Water Quality Data

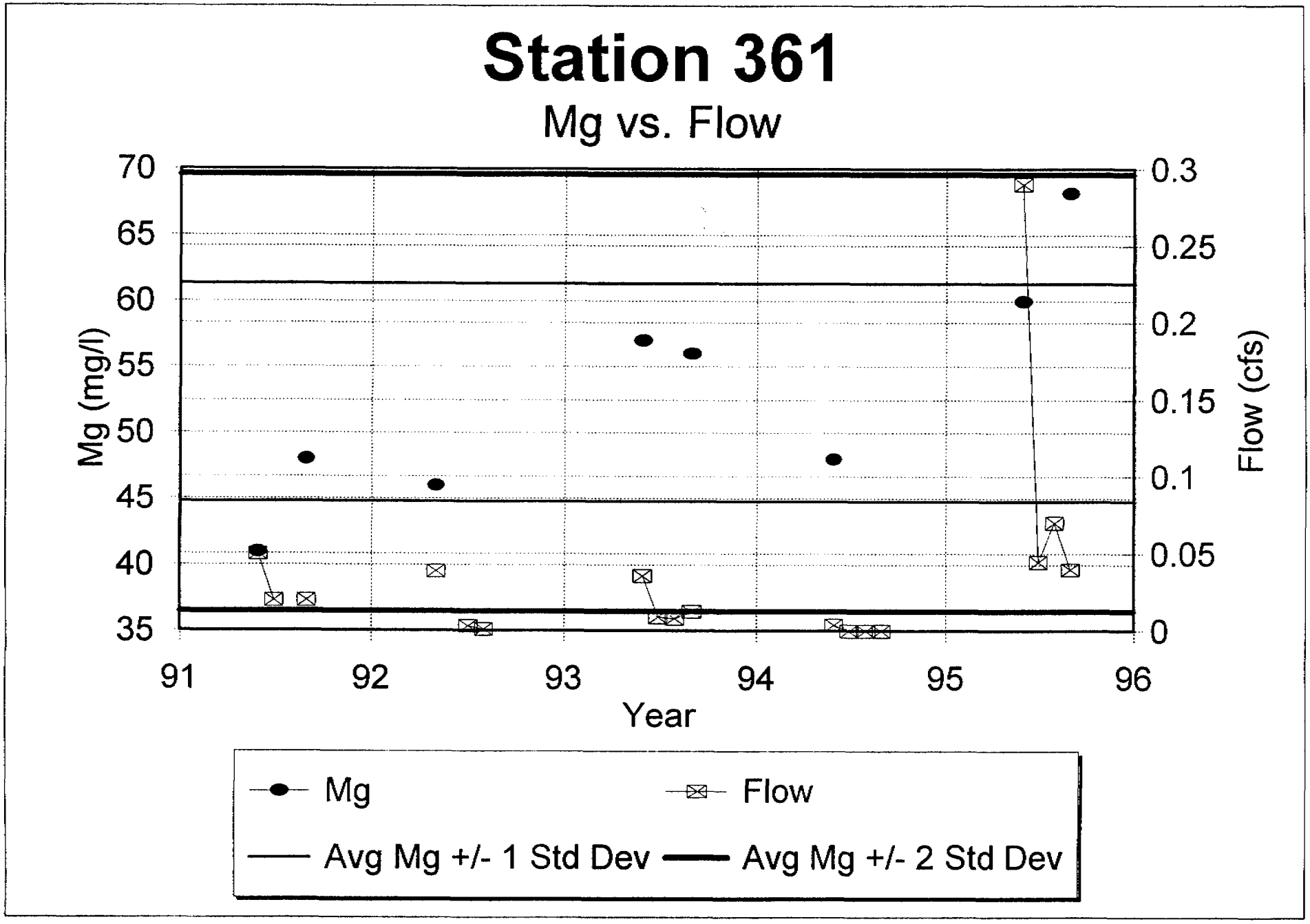
Station: 341 | Property: Star Point | Location: 1375' N 750' W of SE corn. Sec 34, T15S, R7E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Print Date: April 26, 1996 | Elevation: 7960

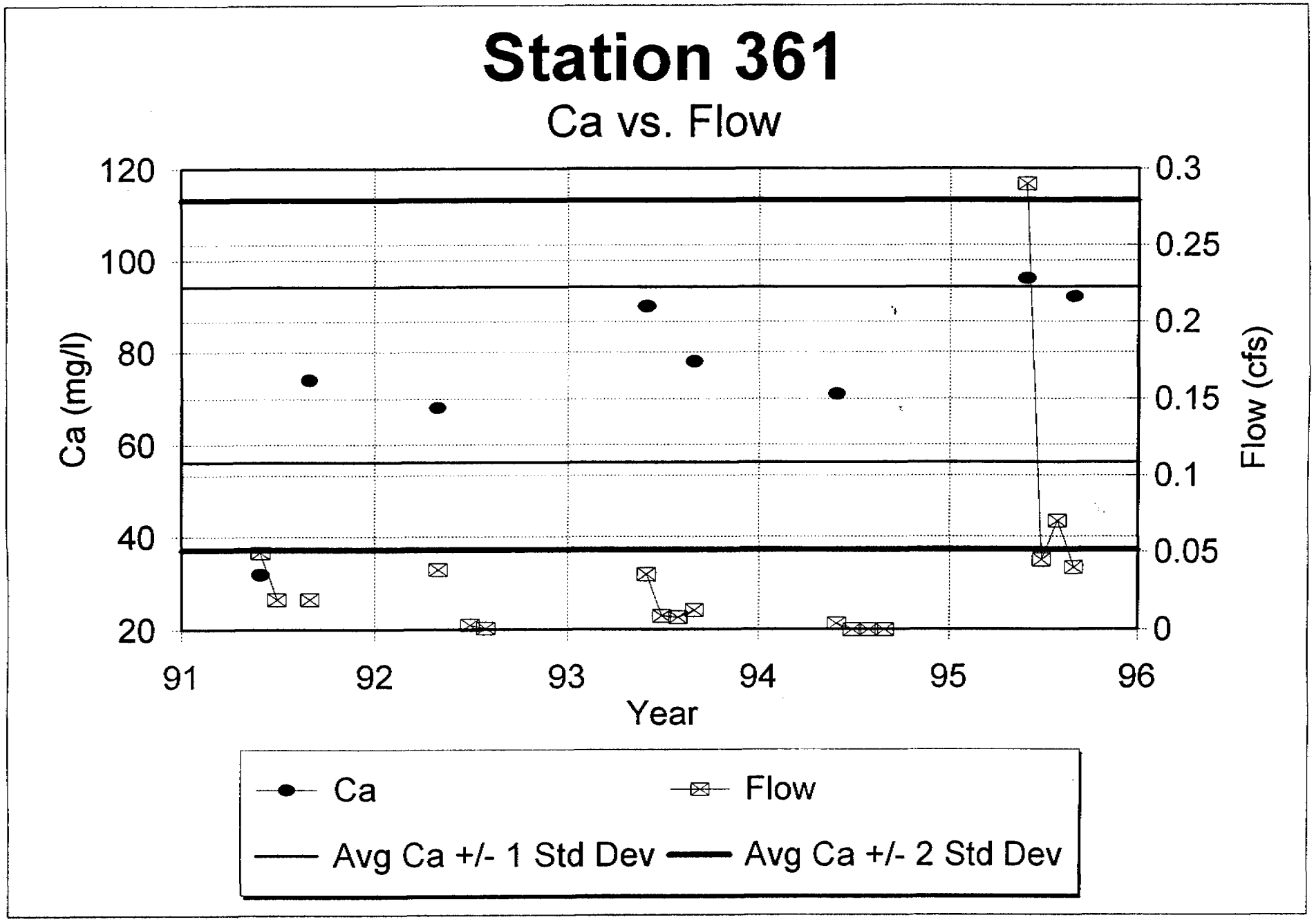
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-80																						
Feb-80																						
Mar-80																						
Apr-80																						
May-80																						
Jun-80																						
Jul-80																						
Aug-80																						
Sep-80																						
Oct-80	10/03/80	0.34				259																
Nov-80	11/10/80	1				273																
Dec-80	12/30/80	0.26				290																
Jan-81	01/26/81	0.26				314																
Feb-81	02/04/81																					IN-ACCESSIBLE
Mar-81	03/24/81																					IN-ACCESSIBLE
Apr-81	04/28/81	0.6				239																
May-81	05/28/81	0.7				255																
Jun-81	06/27/81					540																
Jul-81	07/31/81					269																
Aug-81																						
Sep-81																						
Oct-81																						
Nov-81	11/24/81																					IN-ACCESSIBLE
Dec-81																						
Jan-82																						
Feb-82																						
Mar-82																						
Apr-82																						
May-82																						
Jun-82																						
Jul-82																						
Aug-82																						
Sep-82																						
Oct-82																						
Nov-82																						
Dec-82	12/29/82																					IN-ACCESSIBLE
Jan-83																						
Feb-83																						
Mar-83	03/24/83																					IN-ACCESSIBLE - SNOW
Apr-83	04/21/83																					IN-ACCESSIBLE - SNOW
May-83	05/12/83																					IN-ACCESSIBLE - SNOW
Jun-83	06/29/83	2.8				229																
Jul-83																						
Aug-83																						
Sep-83	09/07/83	0.35				216																
Oct-83																						
Nov-83																						
Dec-83																						
Jan-84	01/05/84	0.35				301																
Feb-84																						
Mar-84	03/30/84																					IN-ACCESSIBLE
Apr-84																						
May-84																						
Jun-84	06/21/84	0.2				219																
Jul-84																						
Aug-84																						
Sep-84	09/21/84	0.5				220																
Oct-84																						
Nov-84																						
Dec-84	12/31/84																					SNOW - IN-ACCESSIBLE
Jan-85																						
Feb-85	02/21/85																					IN-ACCESSIBLE
Mar-85	03/31/85	1.8				252																
Apr-85																						
May-85																						
Jun-85	06/13/85	5.4				229																
Jul-85																						
Aug-85	08/15/85	0.66				255																
Sep-85																						
Oct-85																						
Nov-85																						
Dec-85																						

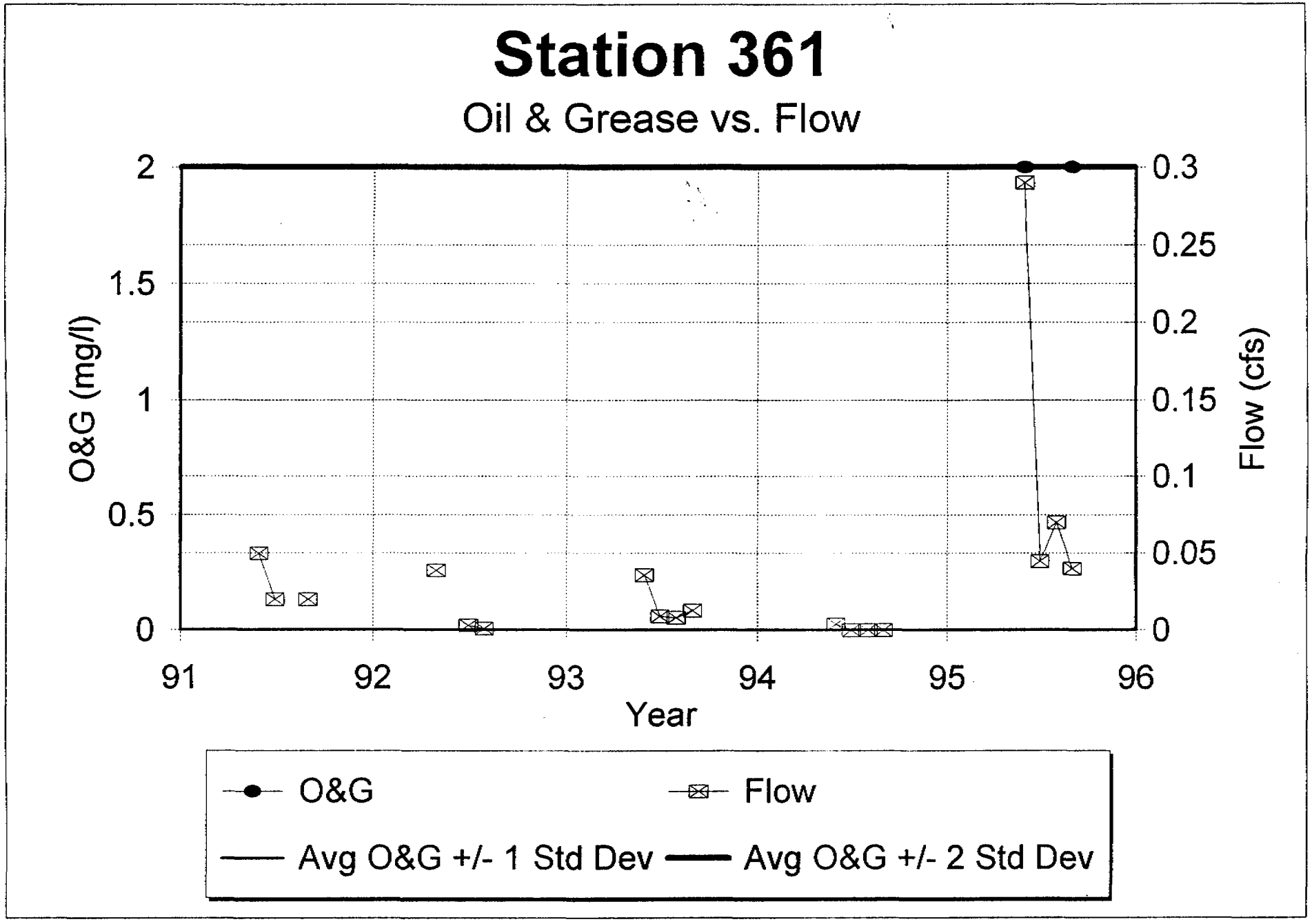

Station 361
SO4 vs. Flow
300
250
200
150
100
50
SO4 (mg/l)
0.3
0.25
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

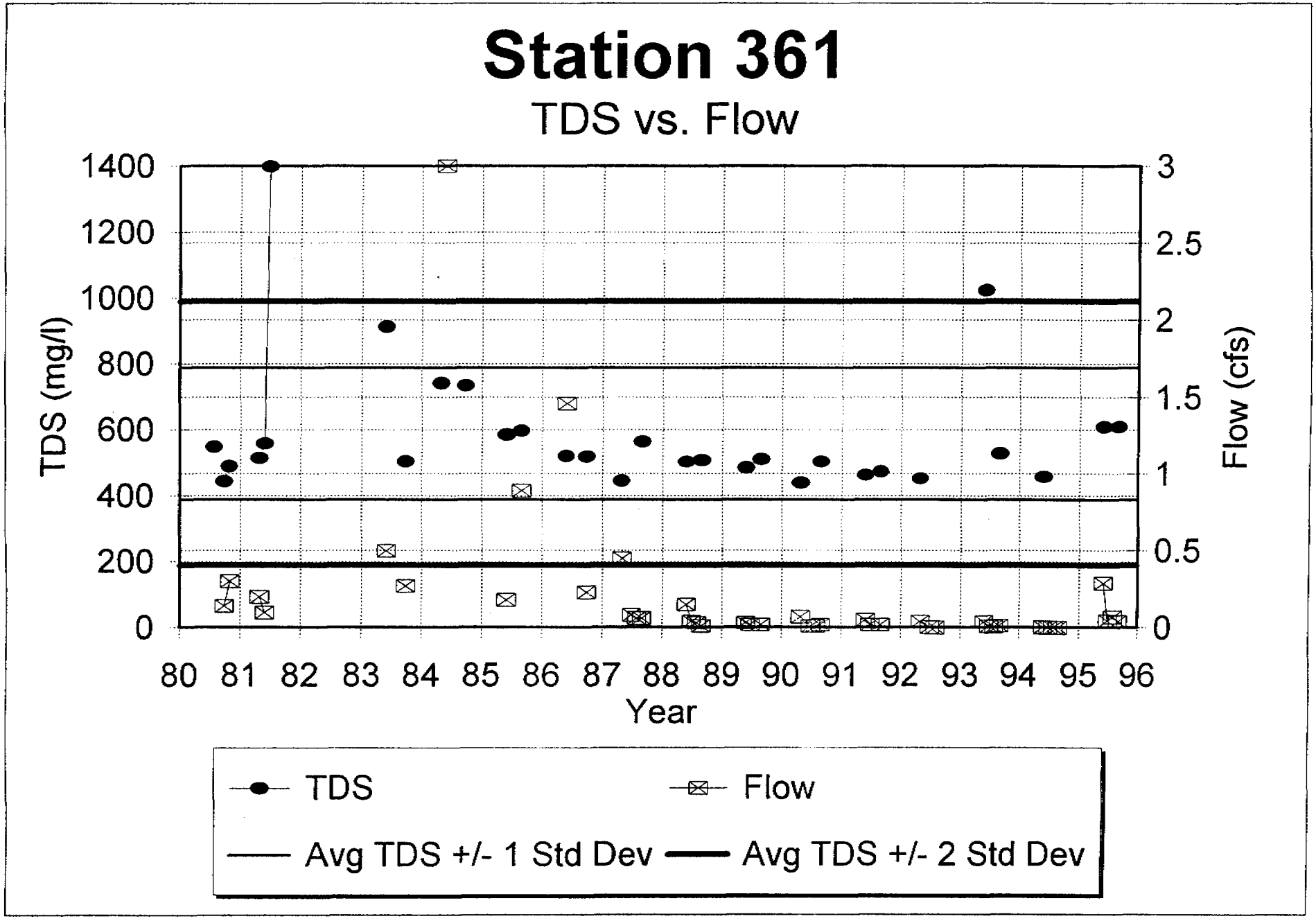

Station 361
HCO3 vs. Flow
HCO3 (mg/l)
360
340
320
300
280
260
240
Flow (cfs)
0.3
0.25
0.2
0.15
0.1
0.05
0
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

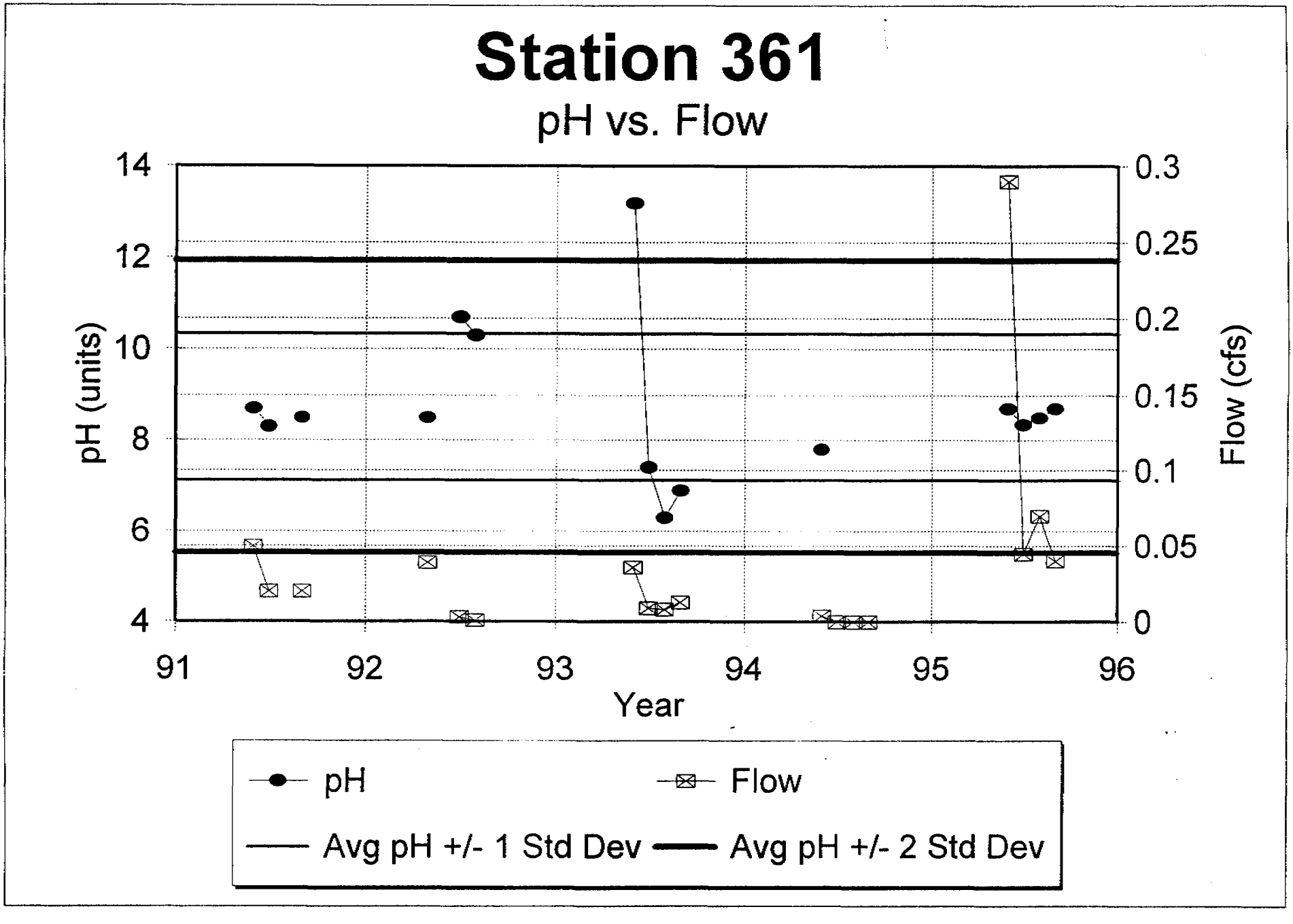

Station 361
Cl vs. Flow
Cl (mg/l)
22
20
18
16
14
12
Flow (cfs)
0.3
0.25
0.2
0.15
0.1
0.05
0
91
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

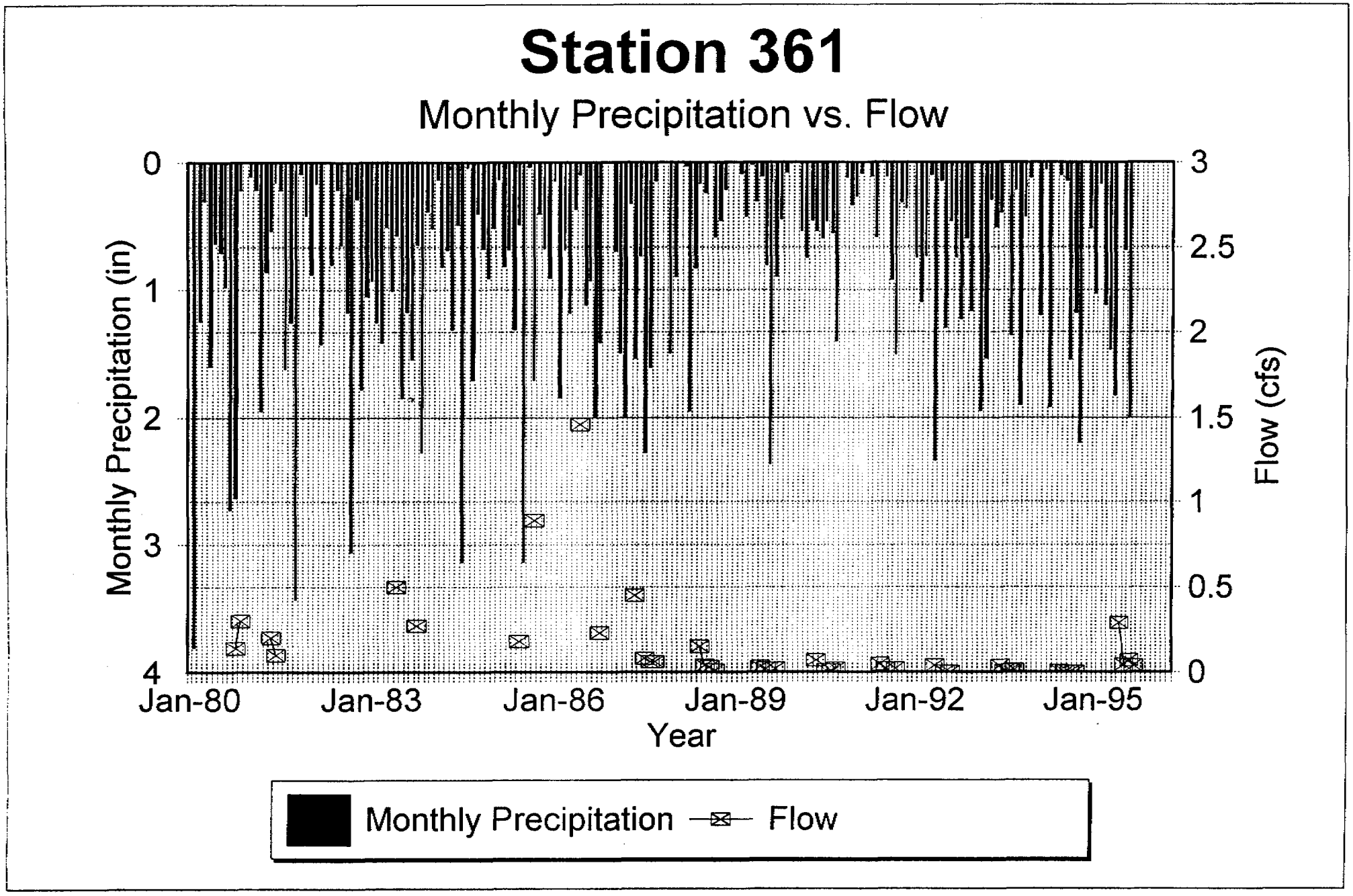

Station 361
Mg vs. Flow
Mg (mg/l)
70
65
60
55
50
45
40
35
Flow (cfs)
0.3
0.25
0.2
0.15
0.1
0.05
0
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 361
Ca vs. Flow
120
100
80
60
40
20
Ca (mg/l)
0.3
0.25
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 361
Oil & Grease vs. Flow
O&G (mg/l)
Flow (cfs)
Year
2
1.5
1
0.5
0
0.3
0.25
0.2
0.15
0.1
0.05
0
91
92
93
94
95
96
O&G
Flow
Avg O&G +/- 1 Std Dev
Avg O&G +/- 2 Std Dev


Station 361
TDS vs. Flow
TDS (mg/l)
Flow (cfs)
Year
1400
1200
1000
800
600
400
200
0
3
2.5
2
1.5
1
0.5
0
80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 361
pH vs. Flow
14
12
10
8
6
4
pH (units)
0.3
0.25
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev


Station 361
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
1
2
3
4
Flow (cfs)
3
2.5
2
1.5
1
0.5
0
Jan-80
Jan-83
Jan-86
Jan-89
Jan-92
Jan-95
Year
Monthly Precipitation
Flow

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 26, 1996

Station: 361 | Property: Star Point | Location: 1500' N 2375' E of SW corn. Sec 36, T14S, R7E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 7770

Date Mo-Yr	Sample Date	Field Measurements Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	Laboratory Measurements TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92	05/20/92	0.039	8.5	697	10.2	452	14		359	281	10	14	138	68	46	3	12	<	0.02	0.06		
Jun-92																						
Jul-92	07/15/92	0.003	10.7	668	18.6																	
Aug-92	08/24/92	0.001	10.3	728	15.3																	
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/22/93	0.036	13.2	1620	13.4	1024	24		918	317	10	16	183	90	57	3	15	<	0.02 <	0.02 <	0.01	
Jul-93	07/26/93	0.009	7.4	772	15.2																	
Aug-93	08/17/93	0.008	6.3	798	6.4																	
Sep-93	09/27/93	0.013	6.9	766	1.8	528	12		425	317	10	19	178	78	56	4	15	<	0.02	0.17 <	0.01	
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/08/94	0.004	7.8	824	13.4	458	4		374	323	6	16	142	71	48	3	14	<	0.02	0.07 <	0.01	
Jul-94	07/19/94	0																				NO FLOW
Aug-94	08/31/94	0																				NO FLOW
Sep-94	09/21/94	0																				NO FLOW
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/21/95	0.29	8.7	879	9	610 <	5 <	2	487	255	10	16	220	96.1	60	3.4	16.3	0.8 <	0.03	0.11	0.006	
Jul-95	07/26/95	0.045	8.35	1046	17																	
Aug-95	08/23/95	0.07	8.5	935	13																	All flow in cfs and temp. in
Sep-95	09/27/95	0.04	8.7	1070	3	610	12 <	2	511	282 <	2	20	220	92.1	68.2	3.8	18	1.2 <	0.01	0.35	0.009	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
Count		44	15	15	15	30	7	2	8	8	8	8	8	8	8	8	8	2	8	8	7	
Minimum		0	6.3	610	1.8	440 <	2 <	2	323	255 <	2	14	80	32	41	3	10	0.8 <	0.01 <	0.02 <	0.006	
Maximum		3	13.2	1620	18.6	1400 <	24 <	2	918	323 <	14	20	220	96.1	68.2	4	18	1.2 <	0.07 <	0.35 <	0.02	
Average		0.204	8.7233	856.87	10.687	588.53 <	10.429 <	2	472.38	294.13 <	8.625	16.5	161.88	75.15	53.025	3.275	14.038	1 <	0.0263 <	0.13 <	0.0107	
Standard Deviation		0.5002	1.6063	240.33	4.8537	200.23 <	7.0073 <	0	178.73	24.148 <	3.3518	1.8708	44.594	18.995	8.2767	0.3865	2.431	0.2 <	0.0173 <	0.1023 <	0.004	
Avg. -1 Std. Dev.		-0.296	7.117	616.53	5.833	388.3 <	3.4213 <	2	293.65	269.98 <	5.2732	14.629	117.28	56.155	44.748	2.8885	11.606	0.8 <	0.009 <	0.0277 <	0.0067	
Avg. +1 Std. Dev.		0.7042	10.33	1097.2	15.54	788.76 <	17.436 <	2	651.1	318.27 <	11.977	18.371	206.47	94.145	61.302	3.6615	16.469	1.2 <	0.0435 <	0.2323 <	0.0147	
Avg. -2 Std. Dev.		-0.796	5.5107	376.2	0.9792	188.08 <	-3.586 <	2	114.92	245.83 <	1.9215	12.758	72.687	37.16	36.472	2.502	9.1755	0.6 <	-0.008 <	-0.075 <	0.0027	
Avg. +2 Std. Dev.		1.2044	11.936	1337.5	20.394	988.99 <	24.443 <	2	829.83	342.42 <	15.329	20.242	251.06	113.14	69.578	4.048	18.9	1.4 <	0.0608 <	0.3347 <	0.0188	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Station: 361 Property: Star Point Location: 1500' N 2375' E of SW corn. Sec 36, T14S, R7E Station Type: Stream Sampling Frequency: Quarterly Formation: Elevation: 7770

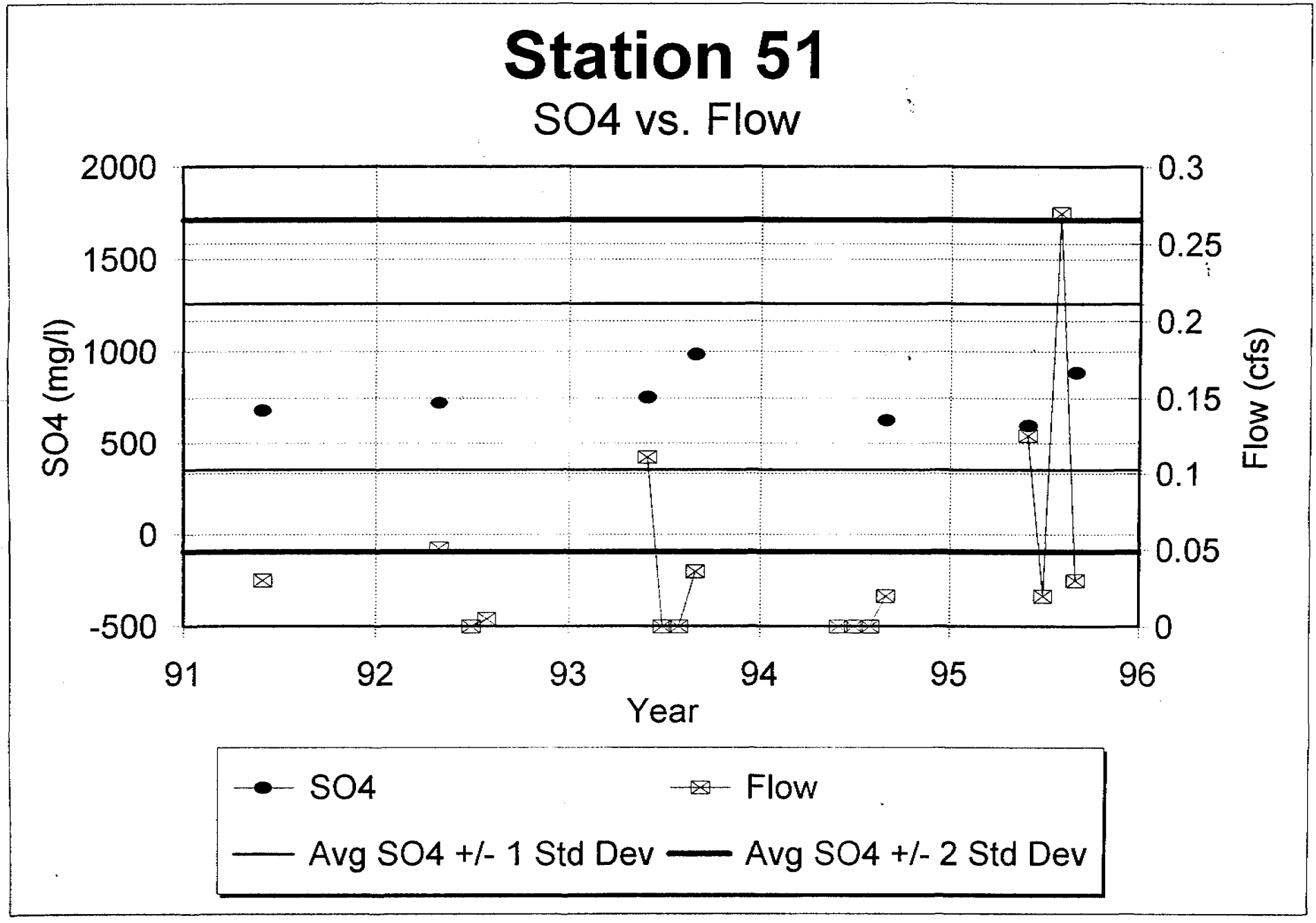
Print Date: April 26, 1996

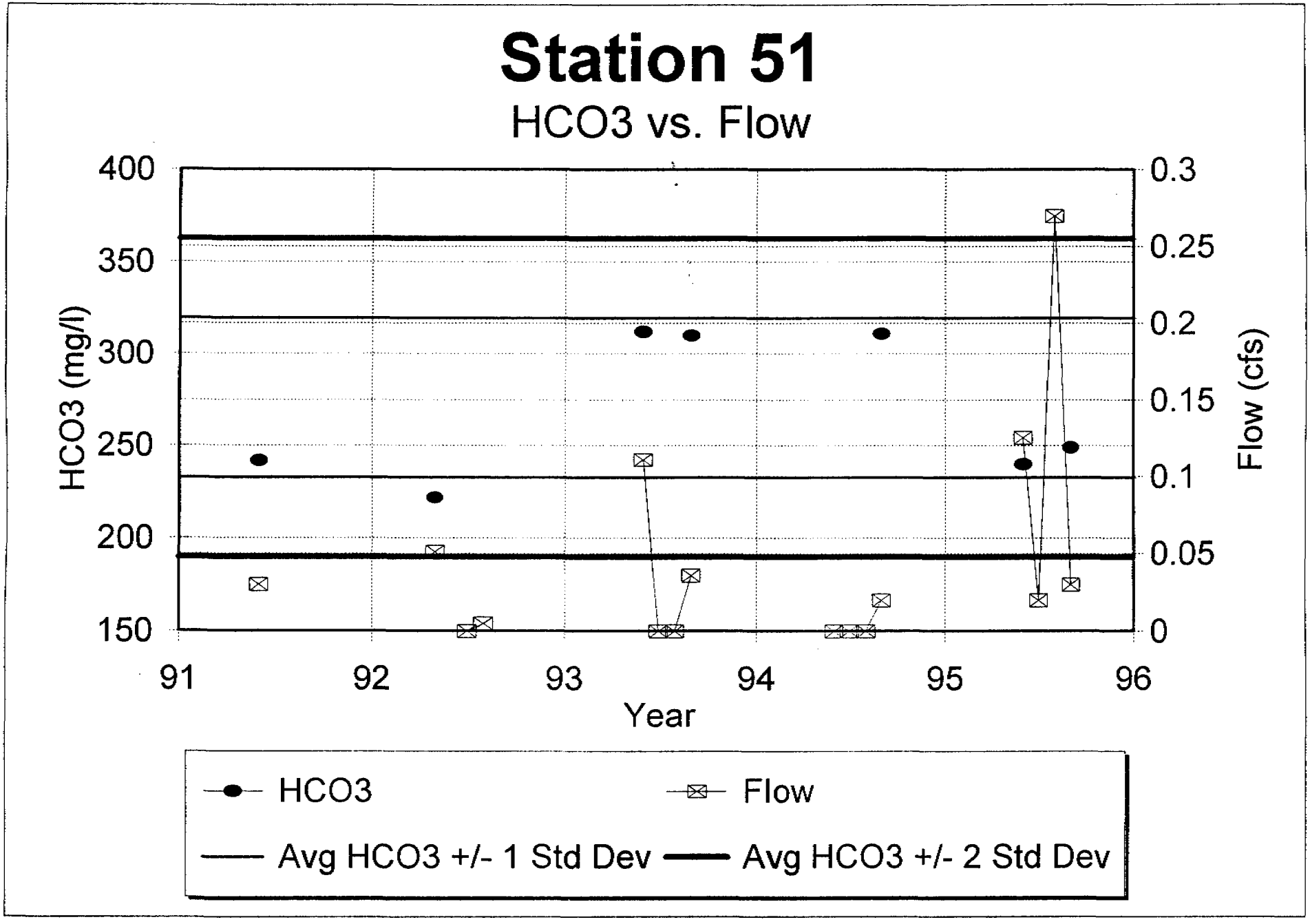
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-86																						
Feb-86																						
Mar-86																						
Apr-86																						
May-86																						
Jun-86	06/12/86	1.46				520																
Jul-86																						
Aug-86																						
Sep-86																						
Oct-86	10/06/86	0.23				519																
Nov-86																						
Dec-86																						
Jan-87																						
Feb-87																						
Mar-87																						
Apr-87																						
May-87	05/19/87	0.45				446																
Jun-87																						
Jul-87	07/16/87	0.08																				
Aug-87	07/12/87	0.06																				
Sep-87	09/22/87	0.06				564																
Oct-87																						
Nov-87																						
Dec-87																						
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88	06/01/88	0.15				502																
Jul-88	07/15/88	0.04																				
Aug-88	08/13/88	0.03																				
Sep-88	09/03/88	0.01				508																
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89	06/06/89	0.03				486																
Jul-89	07/11/89	0.02																				
Aug-89																						
Sep-89	09/15/89	0.02				510																
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90	05/30/90	0.07				440																
Jun-90																						
Jul-90	07/06/90	0.01																				
Aug-90	08/22/90	0.01																				
Sep-90	09/24/90	0.02				504																
Oct-90																						
Nov-90																						
Dec-90																						
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91	06/13/91	0.05	8.7	610	6	464 <	2		323	268	14	15	80	32	41	3	10	<	0.02	0.05 <	0.01	
Jul-91	07/16/91	0.02	8.3	720	10																	
Aug-91																						
Sep-91	09/17/91	0.02	8.5	720	8	474			382	310	7	16	134	74	48	3	12		0.07	0.21	0.02	
Oct-91																						
Nov-91																						
Dec-91																						

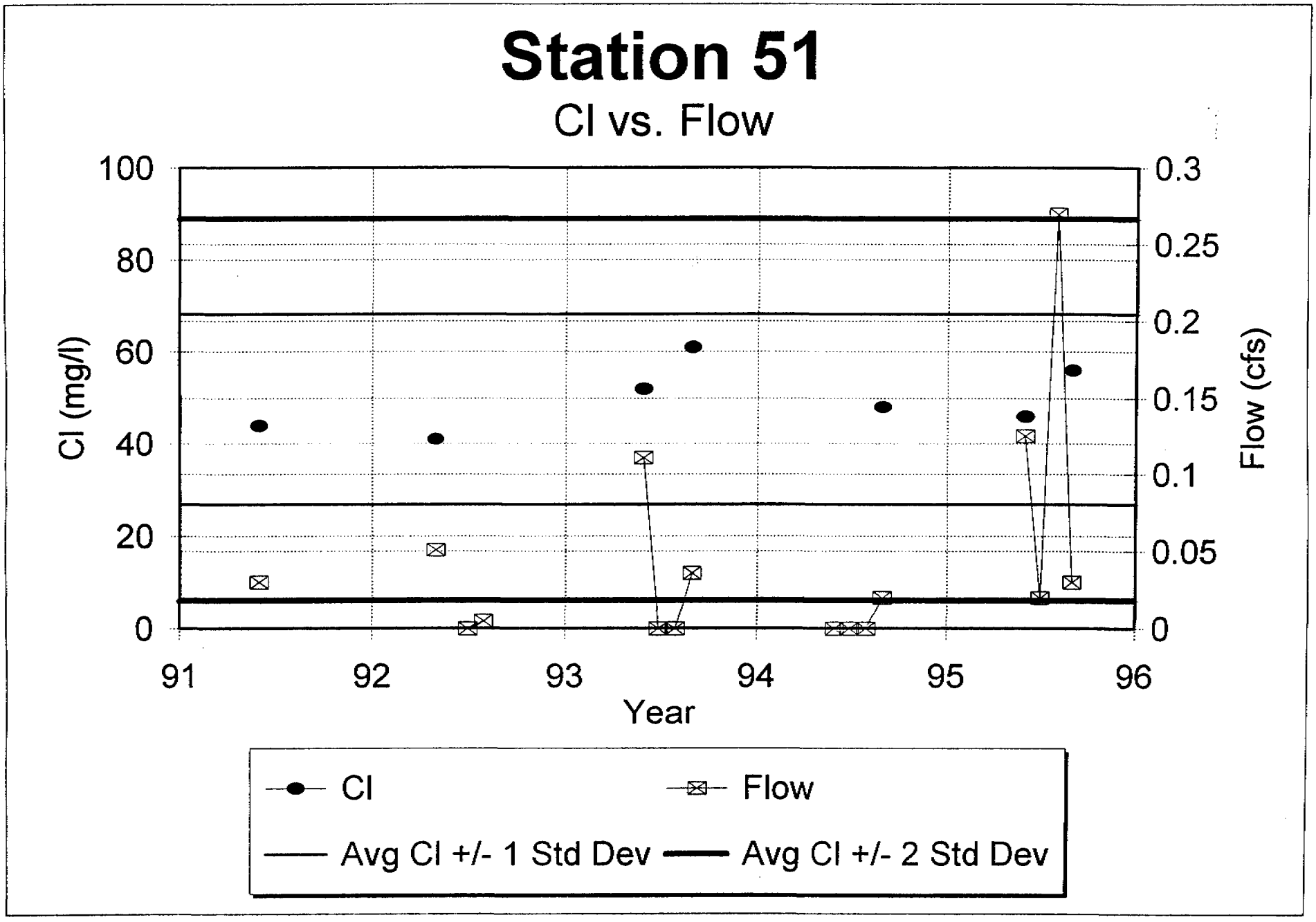
Cyprus Plateau Mining Company - Water Quality Data

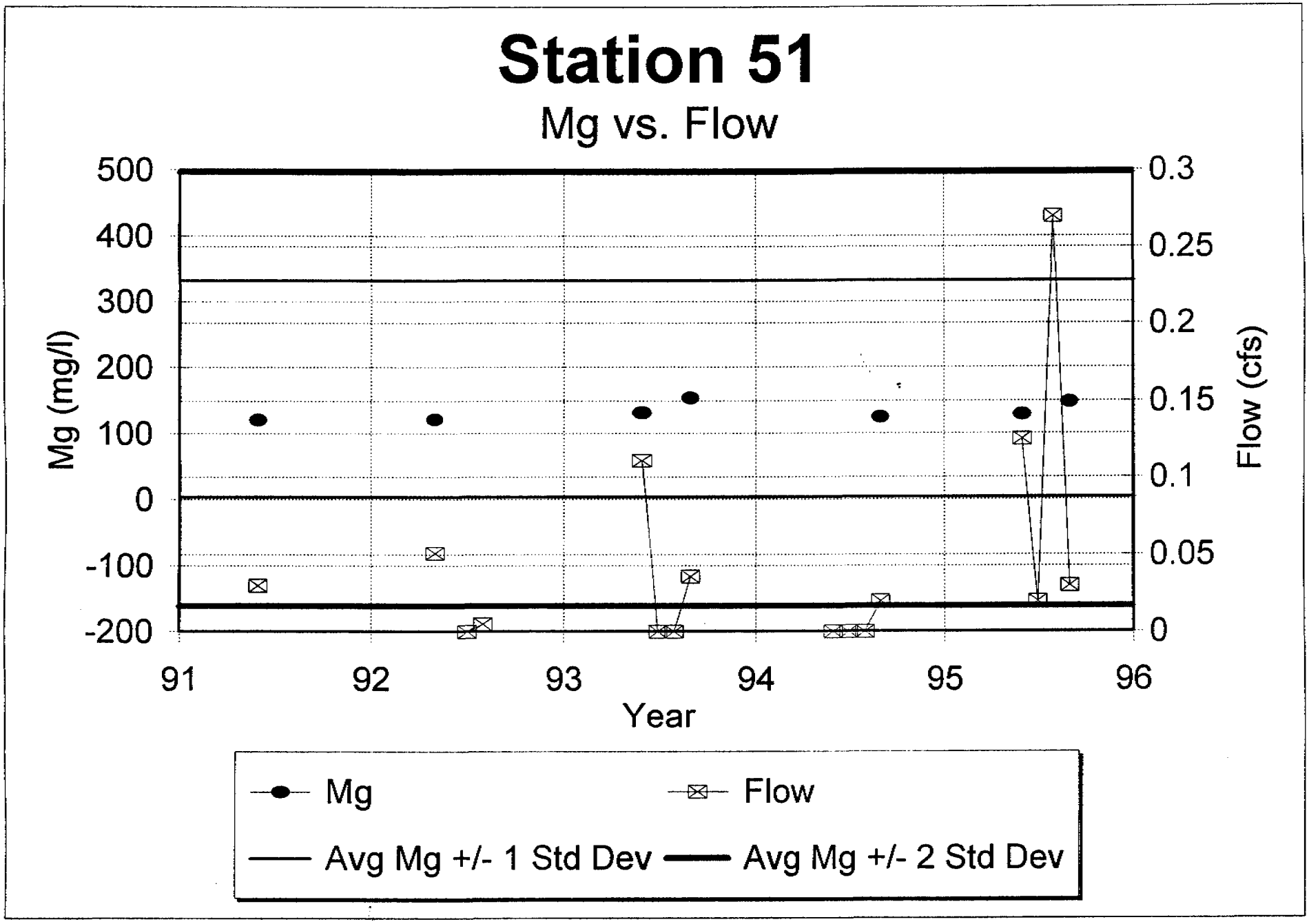
Station: 361 Property: Star Point Location: 1500' N 2375' E of SW corn. Sec 36, T14S, R7E Station Type: Stream Sampling Frequency: Quarterly Formation: Print Date: April 26, 1996 Elevation: 7770

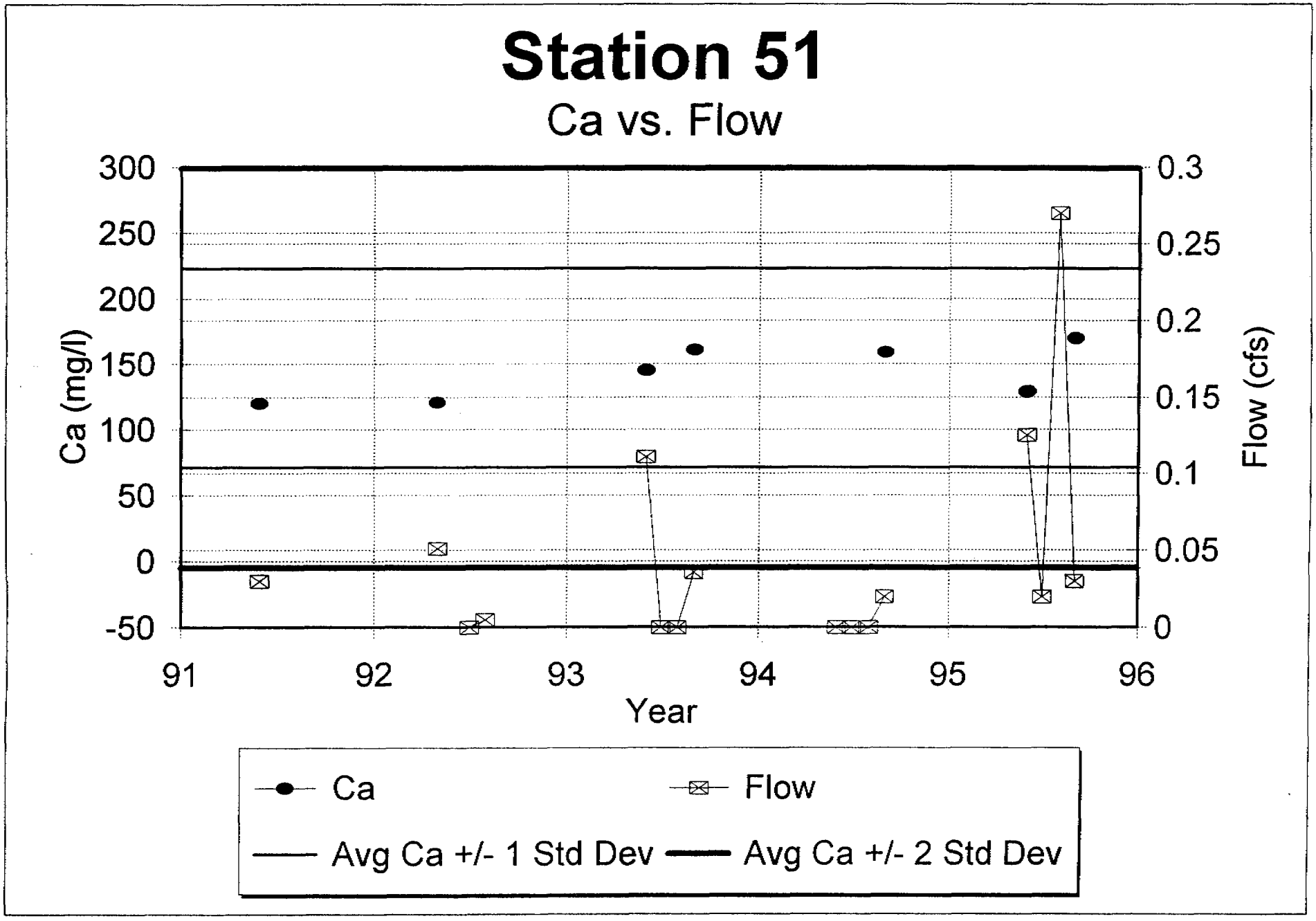
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-80																						
Feb-80																						
Mar-80																						
Apr-80																						
May-80																						
Jun-80																						
Jul-80																						
Aug-80	08/27/80					550																
Sep-80																						
Oct-80	10/02/80	0.14				445																
Nov-80	11/10/80	0.3				490																
Dec-80																						
Jan-81	01/06/81																					FROZEN
Feb-81	02/04/81																					FROZEN
Mar-81	03/25/81																					FROZEN
Apr-81	04/28/81																					INACCESSIBLE
May-81	05/27/81	0.2				515																
Jun-81	06/16/81	0.1				559																
Jul-81	07/17/81					1400																
Aug-81	08/29/81																					
Sep-81																						INACCESSIBLE - RAIN -
Oct-81	10/08/81																					
Nov-81	11/24/81																					INACCESSIBLE - RAIN -
Dec-81	12/29/81																					INACCESSIBLE
Jan-82																						INACCESSIBLE
Feb-82																						
Mar-82																						
Apr-82																						
May-82																						
Jun-82																						
Jul-82																						
Aug-82																						
Sep-82																						
Oct-82																						
Nov-82																						
Dec-82																						
Jan-83																						
Feb-83																						
Mar-83	03/24/83																					
Apr-83	04/21/83																					INACCESSIBLE - MUD &
May-83	05/12/83																					INACCESSIBLE - MUD &
Jun-83	06/28/83	0.5				913																INACCESSIBLE - MUD &
Jul-83																						
Aug-83																						
Sep-83																						
Oct-83	10/06/83	0.27				505																
Nov-83																						
Dec-83																						
Jan-84																						
Feb-84																						
Mar-84	03/30/84																					INACCESSIBLE - HIT MU
Apr-84																						
May-84						742																
Jun-84	06/20/84	3																				
Jul-84																						
Aug-84																						
Sep-84																						
Oct-84						735																
Nov-84																						
Dec-84	12/11/84																					IN-ACCESSIBLE - GATE
Jan-85																						
Feb-85	02/21/85																					IN-ACCESSIBLE - GATE
Mar-85																						
Apr-85																						
May-85																						
Jun-85	06/13/85	0.18				585																
Jul-85																						
Aug-85																						
Sep-85	09/05/85	0.59				598																
Oct-85																						
Nov-85																						
Dec-85																						

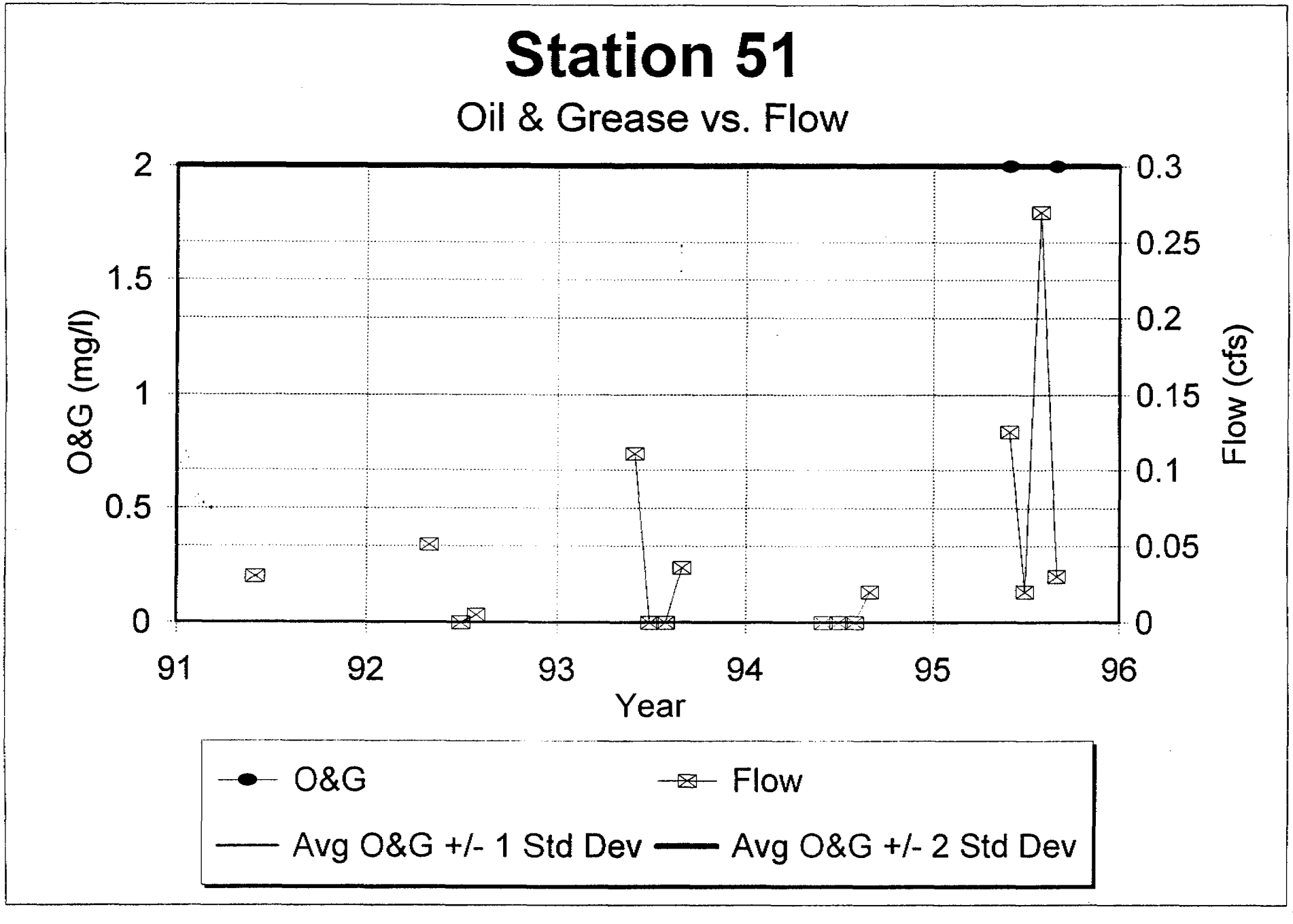

Station 51
SO4 vs. Flow
2000
1500
1000
500
0
-500
SO4 (mg/l)
0.3
0.25
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

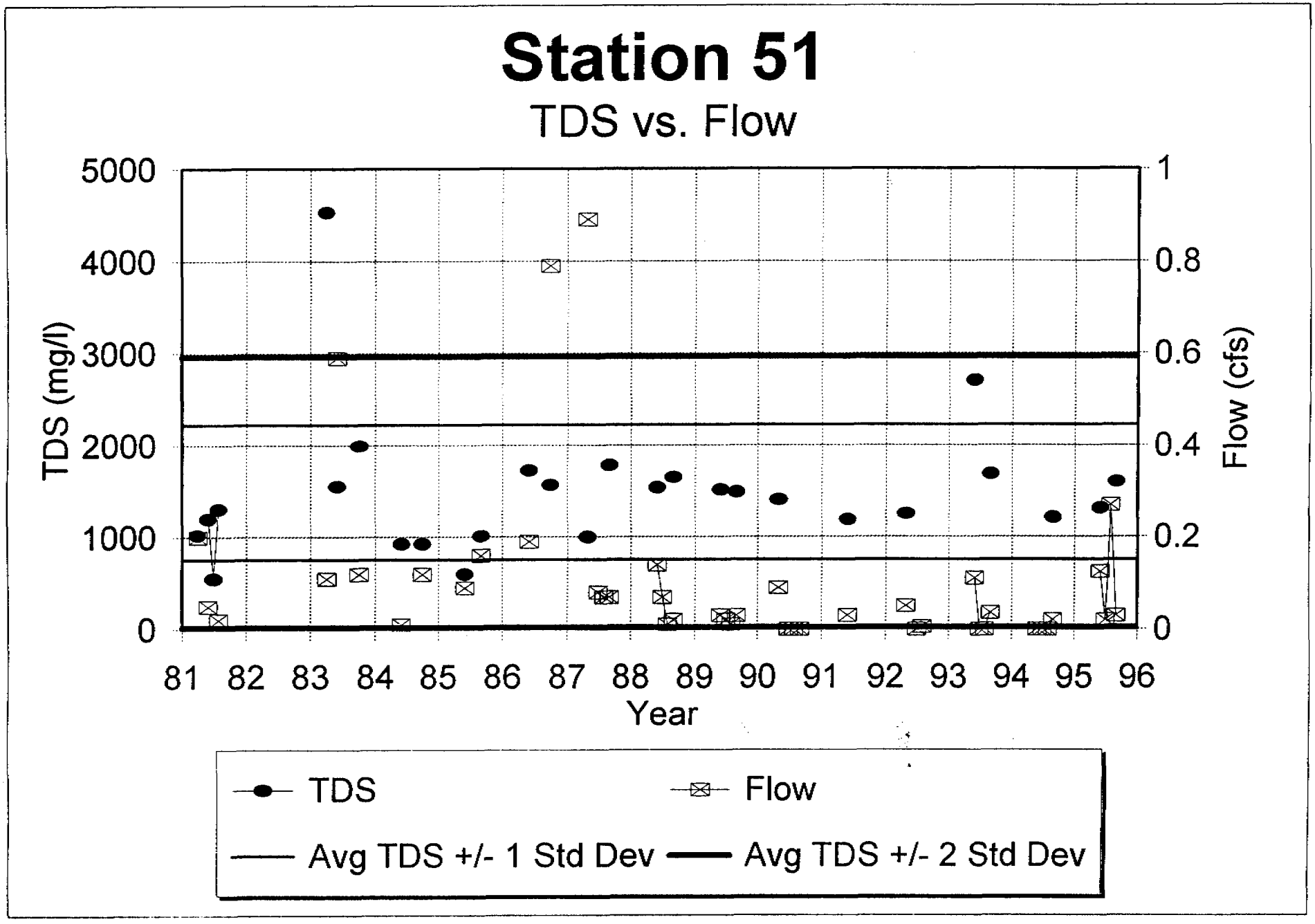

Station 51
HCO3 vs. Flow
400
350
300
250
200
150
HCO3 (mg/l)
0.3
0.25
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

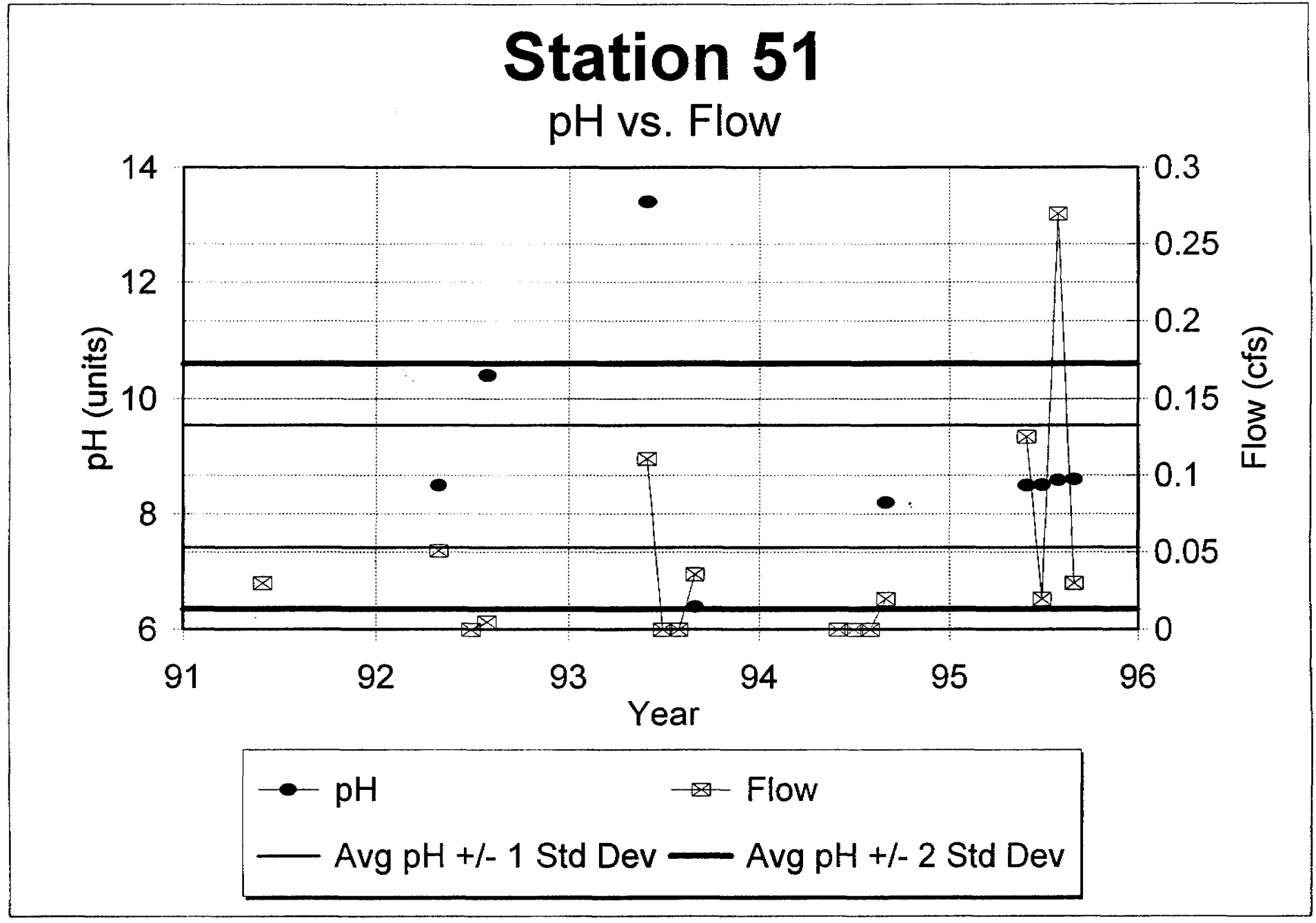

Station 51
Cl vs. Flow
Cl (mg/l)
100
80
60
40
20
0
0.3
0.25
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

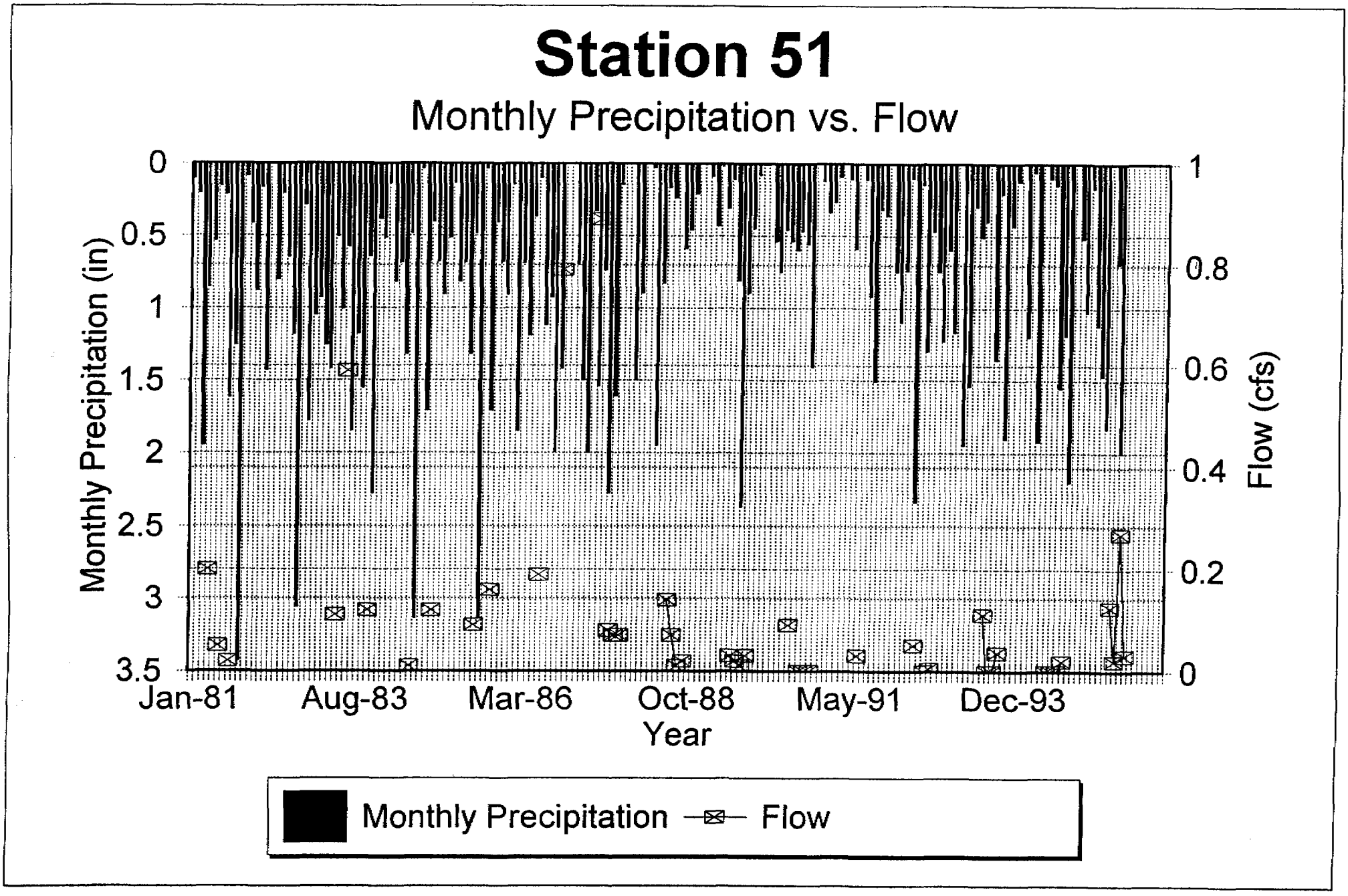

Station 51
Mg vs. Flow
500
400
300
200
100
0
-100
-200
Mg (mg/l)
0.3
0.25
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 51
Ca vs. Flow
300
250
200
150
100
50
0
-50
Ca (mg/l)
0.3
0.25
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 51
Oil & Grease vs. Flow
O&G (mg/l)
Flow (cfs)
Year
2
1.5
1
0.5
0
0.3
0.25
0.2
0.15
0.1
0.05
0
91
92
93
94
95
96
O&G
Flow
Avg O&G +/- 1 Std Dev
Avg O&G +/- 2 Std Dev


Station 51
TDS vs. Flow
TDS (mg/l)
5000
4000
3000
2000
1000
0
Flow (cfs)
1
0.8
0.6
0.4
0.2
0
81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 51
pH vs. Flow
14
12
10
8
6
pH (units)
0.3
0.25
0.2
0.15
0.1
0.05
0
Flow (cfs)
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev


Station 51
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
3
3.5
Flow (cfs)
1
0.8
0.6
0.4
0.2
0
Jan-81
Aug-83
Mar-86
Oct-88
May-91
Dec-93
Year
Monthly Precipitation
Flow

Cyprus Plateau Mining Company - Water Quality Data

Station: 51 | Property: Star Point | Location: 2000' S 2500' W of NE corn. Sec 5, T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 7820

Print Date: May 10, 1996

Date Mo-Yr	Sample Date	Field Measurements: Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	Laboratory Measurements: TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	NO3 (D) (mg/l)	NO2 (D) (mg/l)	Comments
Mar-94																								
Apr-94																								
May-94																								
Jun-94	06/08/94	0																						NO FLOW
Jul-94	07/19/94	0																						NO FLOW
Aug-94	08/31/94	0																						NO FLOW
Sep-94	09/21/94	0.02	8.2	1061	10.1	1210 <	2		910	311	0	48	626	159	125	9	66		0.18	0.19	0.02			
Oct-94																								
Nov-94																								
Dec-94																								
Jan-95																								
Feb-95																								
Mar-95																								
Apr-95																								
May-95																								
Jun-95	06/21/95	0.125	8.5	1540	20.4	1310 <	5 <	2	853	240	10	46	600	129	129	7.8	64.7	3	0.02	0.01 <	0.005	0.04 <	0.01	
Jul-95	07/26/95	0.02	8.51	3320	27																			
Aug-95	08/23/95	0.27	8.59	1750	14																			Rain last 24-48 hrs.
Sep-95	09/27/95	0.03	8.8	2270	5	1800 <	5 <	2	1030	249 <	2	56	887	170	148	9.2	92.7	-0.4 <	0.01 <	0.01 <	0.005 <	0.02 <	0.01	
Oct-95																								
Nov-95																								
Dec-95																								
Jan-96																								
END DATA																								
Count		44	33	35	32	27	24	2	13	27	11	27	27	20	22	20	20	2	27	24	28	2	2	
Minimum		0	6.4	320	3.1	550 <	0.5 <	2	786	156 <	0	8	220	40	55.7	2.6	8	-0.4 <	0.0047 <	0.01 <	0.005 <	0.02 <	0.01	
Maximum		0.89	13.4	5700	27	4531 <	1340 <	2	1808	381 <	12	80	2790	430	895	19.4	590	3 <	15.5 <	29 <	12.1 <	0.04 <	0.01	
Average		0.1063	8.4758	1778.6	14.188	1489.4 <	204.15 <	2	1047.1	276.15 <	2.9091	47.481	807.11	147.19	167.62	9.365	98.545	1.3 <	0.658 <	2.1192 <	0.5569 <	0.03 <	0.01	
Standard Deviation		0.1895	1.0611	970.55	6.4403	735.27 <	364.51 <	0	248.8	43.244 <	3.9876	20.716	452.34	76.001	164.43	4.0925	119.25	1.7 <	2.9165 <	5.9176 <	2.3149 <	0.01 <	0	
Avg. -1 Std. Dev.		-0.083	7.4146	806.07	7.7472	754.1 <	-160.4 <	2	798.48	232.9 <	-1.078	26.766	354.77	71.189	3.1944	5.2725	-20.7	-0.4 <	-2.259 <	-3.798 <	-1.756 <	0.02 <	0.01	
Avg. +1 Std. Dev.		0.2958	9.5369	2747.2	20.628	2224.6 <	568.66 <	2	1295.7	319.39 <	6.8967	68.197	1259.4	223.19	332.05	13.457	217.79	3 <	3.5744 <	8.0368 <	2.8717 <	0.04 <	0.01	
Avg. -2 Std. Dev.		-0.273	6.3535	-164.5	1.3069	18.828 <	-524.9 <	2	549.88	189.66 <	-5.066	6.0502	-97.56	-4.811	-161.2	1.1801	-140	-2.1 <	-5.175 <	-9.716 <	-4.073 <	0.01 <	0.01	
Avg. +2 Std. Dev.		0.4853	10.598	3717.7	27.068	2959.9 <	933.18 <	2	1544.3	362.64 <	10.884	88.913	1711.8	299.19	496.48	17.55	337.04	4.7 <	8.4909 <	13.954 <	5.1866 <	0.05 <	0.01	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Station: 51 | Property: Star Point | Location: 2000' S 2500' W of NE corn. Sec 5, T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 7620

Print Date: May 10, 1996

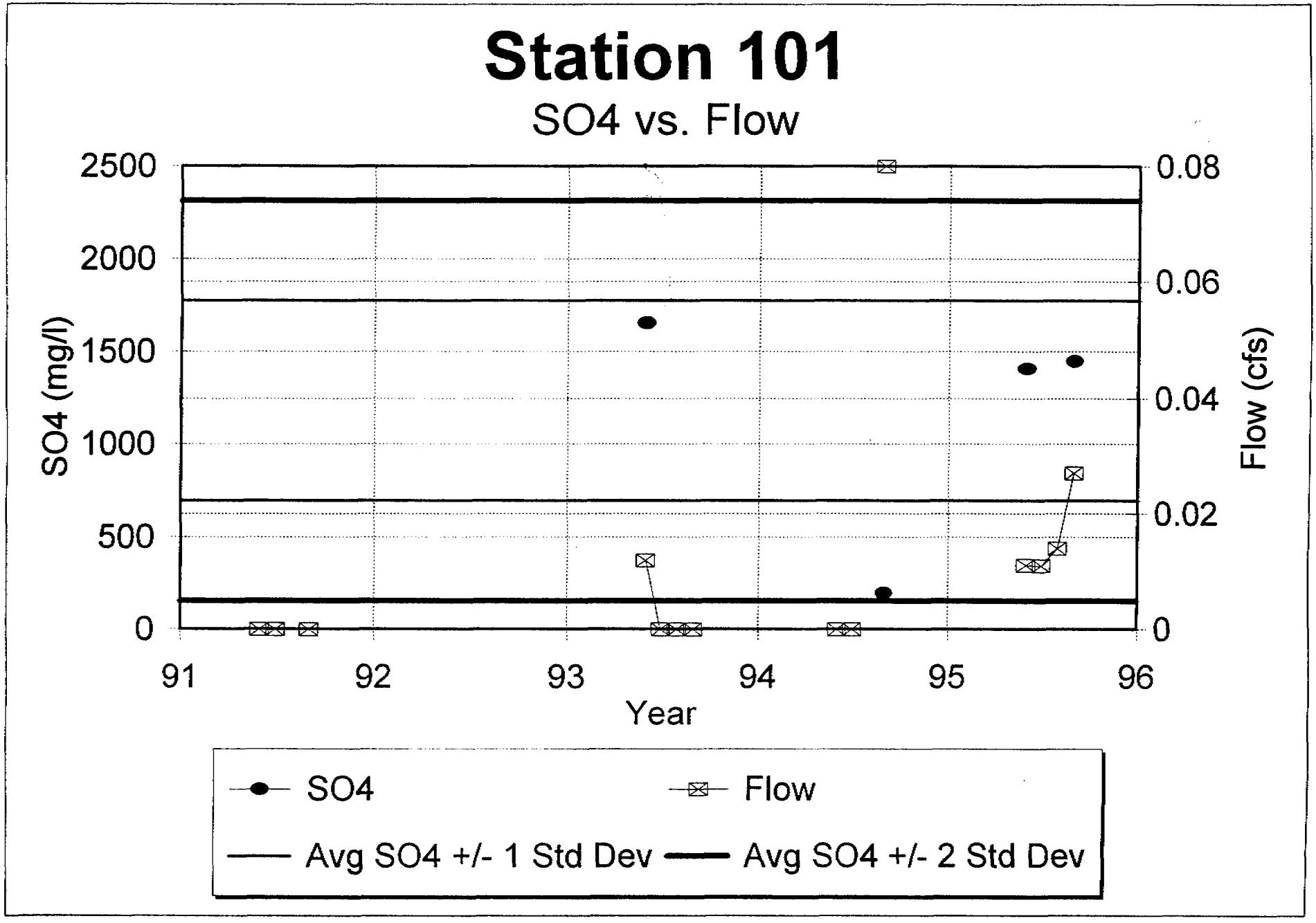
Date Mo-Yr	Sample Date	Field Measurements Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	Laboratory Measurements TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	NO3 (D) (mg/l)	NO2 (D) (mg/l)	Comments
Aug-87	08/12/87	0.07	8.6	320	14																			
Sep-87	09/22/87	0.07	8.5	1980	16.2	1786 <	2		1173	255		74	1111		186			<	0.02	0.03	0.01			
Oct-87																								
Nov-87																								
Dec-87																								
Jan-88																								
Feb-88																								
Mar-88																								
Apr-88																								
May-88																								
Jun-88	06/03/88	0.14	8.3	1197	27	1538	32		1115	246		61	949						0.02	0.25	0.02			
Jul-88	07/15/88	0.07	8.5	1480	11.2																			
Aug-88	08/13/88	0.01	8.7	2100	22																			
Sep-88	09/03/88	0.02	8.5	1950	22	1652	18		1101	234		88	1006						0.04	0.21	0.01			
Oct-88																								
Nov-88																								
Dec-88																								
Jan-89																								
Feb-89																								
Mar-89																								
Apr-89																								
May-89																								
Jun-89	06/07/89	0.03	8.4	1700	10	1514 <	2		1071	215		55	908					<	0.02	0.09	0.01			
Jul-89	07/11/89	0.02	8.4	1950	10																			
Aug-89	08/22/89	0.01	8.4	1830	10																			
Sep-89	09/15/89	0.03	8.7	1850	4	1490 <	2		1011	300		48	809					<	0.02	0.07	0.02			
Oct-89																								
Nov-89																								
Dec-89																								
Jan-90																								
Feb-90																								
Mar-90																								
Apr-90																								
May-90	05/30/89	0.09	7.7	1740	9	1406	1340		907	278		52	778						0.04	29	0.59			
Jun-90																								
Jul-90	07/06/89	0																						NO FLOW
Aug-90	08/22/90	0																						NO FLOW
Sep-90	09/24/90	0																						NO FLOW
Oct-90																								
Nov-90																								
Dec-90																								
Jan-91																								
Feb-91																								
Mar-91																								
Apr-91																								
May-91																								
Jun-91	06/13/91	0.03		1530	11	1188 <	2		796	242	12	44	681	120	121	8	79	<	0.02	0.08	0.01			
Jul-91																								
Aug-91																								
Sep-91																								
Oct-91																								
Nov-91																								
Dec-91																								
Jan-92																								
Feb-92																								
Mar-92																								
Apr-92																								
May-92	05/20/92	0.0512	8.5	1520	16.2	1250	482		803	222	4	41	722	121	122	9	89		0.0047					
Jun-92																								
Jul-92	06/15/92	0.0001																						
Aug-92	08/24/92	0.005	10.4	1890	16.2																			
Sep-92																								
Oct-92																								
Nov-92																								
Dec-92																								
Jan-93																								
Feb-93																								
Mar-93																								
Apr-93																								
May-93																								
Jun-93	06/22/93	0.111	13.4	3788	21	2700	40		1808	312	0	52	753	145	132	8	74	<	0.02	0.05	0.01			
Jul-93	07/26/93	0																						NO FLOW
Aug-93	08/17/93	0																						NO FLOW
Sep-93	09/27/93	0.036	6.4	893	3.1	1686 <	2		1034	310	0	61	988	161	154	10	101	<	0.02 <	0.02 <	0.01			
Oct-93																								
Nov-93																								
Dec-93																								
Jan-94																								
Feb-94																								

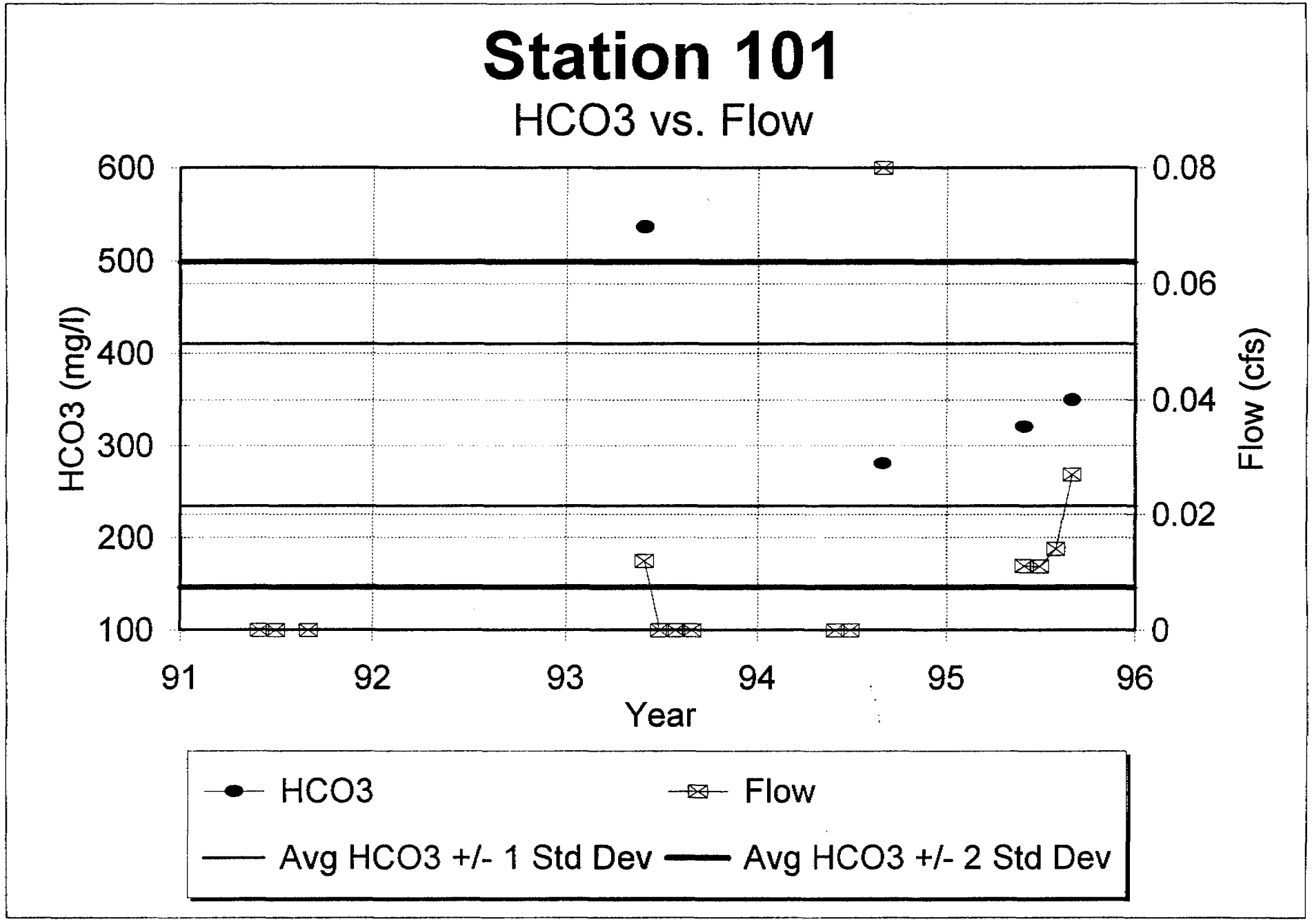
Cyprus Plateau Mining Company - Water Quality Data

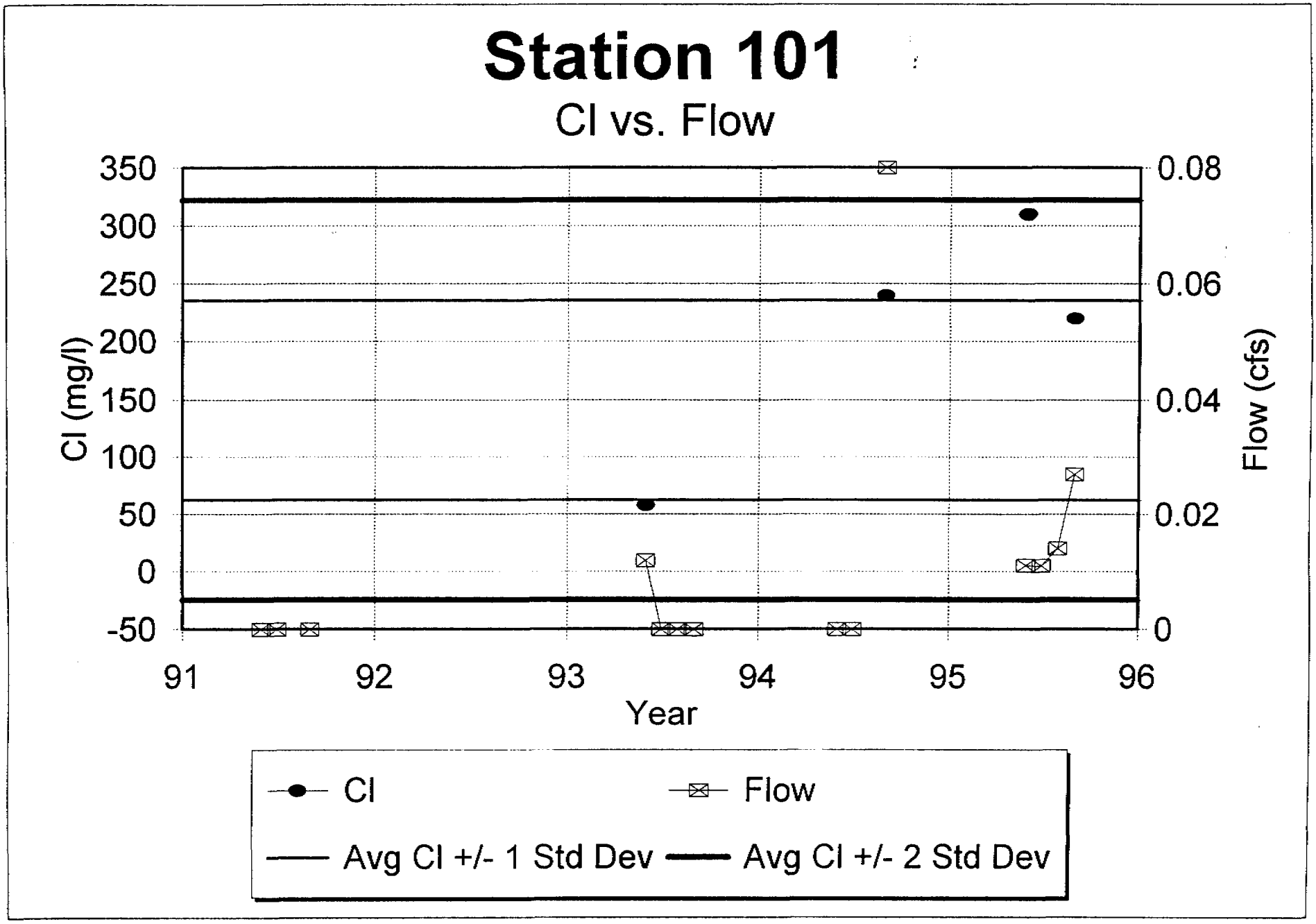
Station: 51 | Property: Star Point | Location: 2000' S 2500' W of NE corn. Sec 5, T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 7820

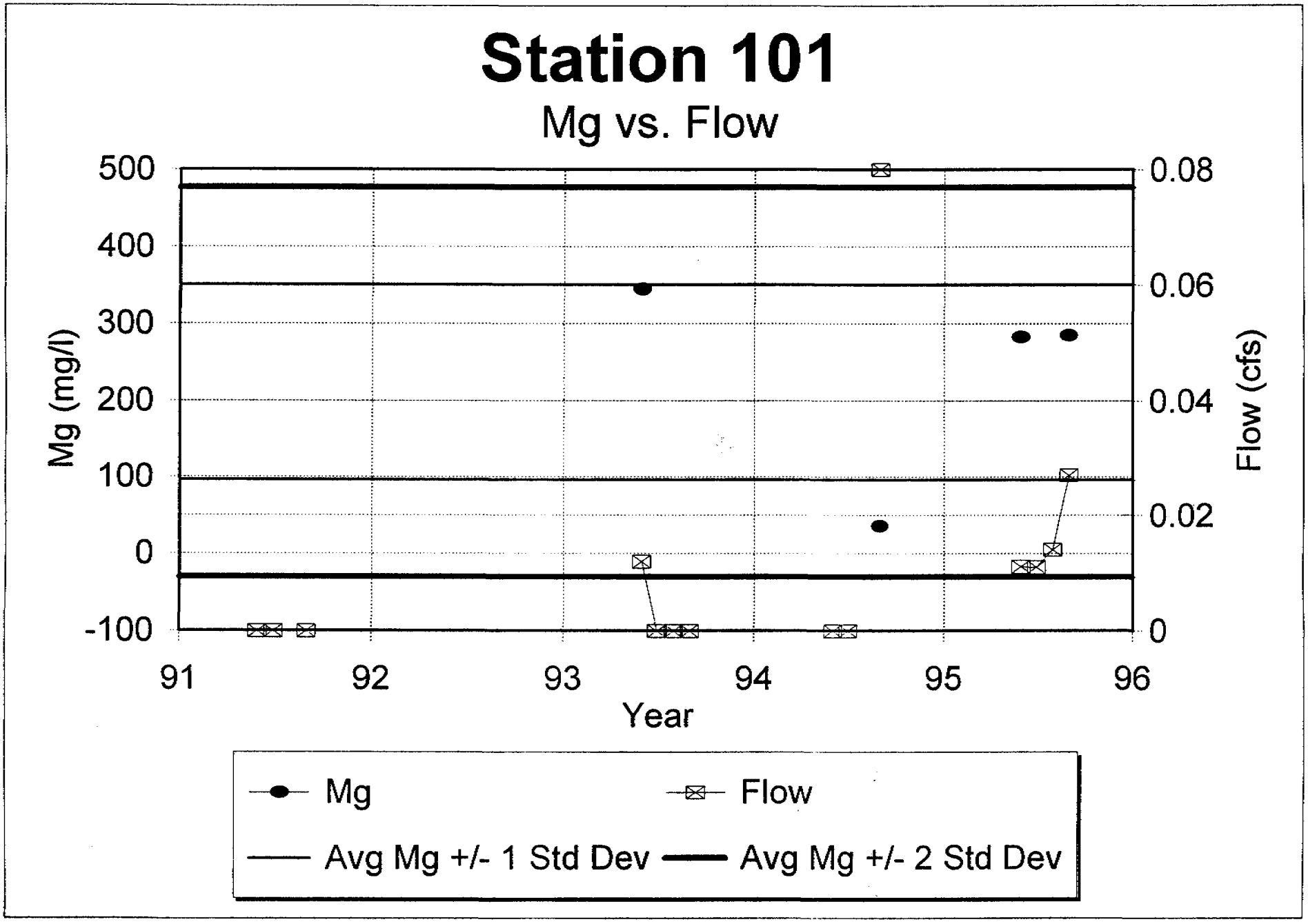
Print Date: May 10, 1996

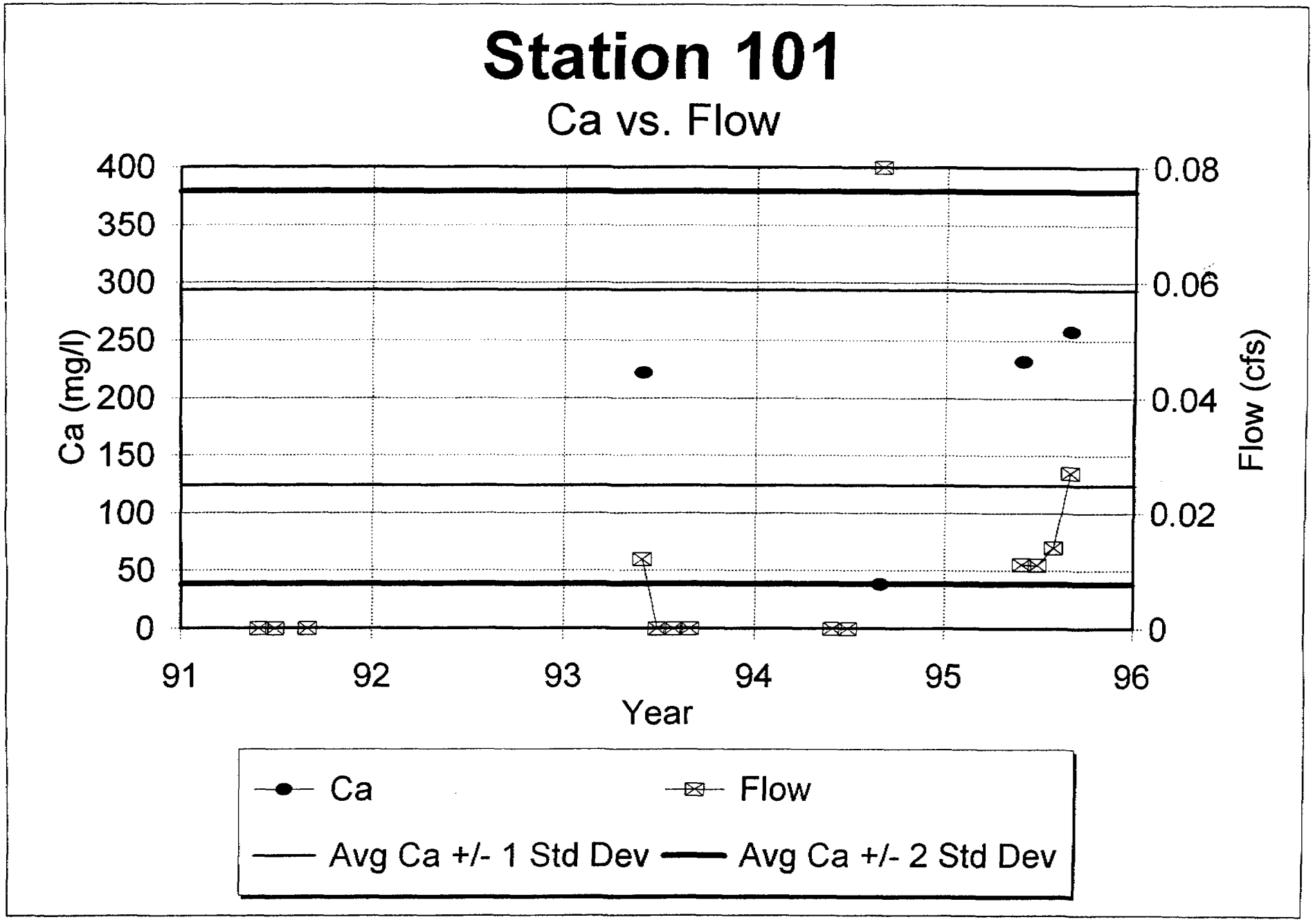
Date Mo-Yr	Sample Date	Field Measurements Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	Laboratory Measurements TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	NO3 (D) (mg/l)	NO2 (D) (mg/l)	Comments
Jan-81																								
Feb-81																								
Mar-81																								
Apr-81	04/28/81	0.2	8.5	800	4	1020	319			361		28	520	126.4	90.2	6.1	84		0.04	4.83	0.17			
May-81	05/27/81																							IN-ACCESSIBLE
Jun-81	06/16/81	0.05	8.5	1700	23	1195	99			276		60	690	40	170.4	2.6	100		0.02	2.05	0.07			
Jul-81	07/17/81			840		550				290		22	220	60	64.8	4.8	15.1		0.05	0.11	0.01			
Aug-81	08/22/81	0.02			14	1300				276		18	530	70.4	55.7	15.8	165.3		15.5		0.659			
Sep-81																								
Oct-81	10/06/81																							IN-ACCESSIBLE
Nov-81	11/24/81																							IN-ACCESSIBLE RAIN RO
Dec-81	12/29/81																							IN-ACCESSIBLE
Jan-82																								
Feb-82																								
Mar-82																								
Apr-82																								
May-82																								
Jun-82																								
Jul-82																								
Aug-82																								
Sep-82																								
Oct-82																								
Nov-82																								
Dec-82																								
Jan-83																								
Feb-83																								
Mar-83	03/24/83																							IN-ACCESSIBLE
Apr-83	04/21/83	0.11	8.1	5700	8	4531	178			316		80	2790	430	230	19.4	590		0.09	0.09	0.01			
May-83	05/12/83																							IN-ACCESSIBLE
Jun-83	06/28/83	0.59	7.2	2250	19	1551	610			298		54	900	148	167	9	83	<	0.05	2.7	0.12			
Jul-83																								
Aug-83																								
Sep-83																								
Oct-83	10/06/83	0.12	8.1	2550	15.5	1992	50			295	1	74	1020	210	186	11	116	<	0.05	0.63	0.04			
Nov-83																								
Dec-83																								
Jan-84	01/06/84																							FROZEN - NO FLOW
Feb-84																								
Mar-84	03/30/84																							IN-ACCESSIBLE
Apr-84																								
May-84																								
Jun-84	06/21/84	0.01	8	1300	16	924	150			299		20	510	113	109	7	18	<	0.05	0.79	0.06			
Jul-84																								
Aug-84																								
Sep-84																								
Oct-84	10/25/84	0.12	7.6	1300	16	924	3			356	1	12	400	116	103	5	13		0.24	0.24 <	0.01			
Nov-84																								
Dec-84	12/11/84																							IN-ACCESSIBLE - SNOW
Jan-85																								
Feb-85	02/21/85																							IN-ACCESSIBLE - SNOW
Mar-85																								
Apr-85																								
May-85																								
Jun-85	06/13/85	0.09	8.1	930		599	14			270		8	310	115	64	7.7	8	<	0.05	0.15	0.02			
Jul-85																								
Aug-85																								
Sep-85	09/05/85	0.16	7.8	1400		1009	1234			256	1	25	520	122	102	9	31	<	0.05	8.41	0.36			
Oct-85																								
Nov-85																								
Dec-85																								
Jan-86																								
Feb-86																								
Mar-86																								
Apr-86																								
May-86																								
Jun-86	06/12/86	0.19	6.4	2250	20	1724	308			318		77	1000	192	167	10.8	104		0.11	0.32	0.06			
Jul-86																								
Aug-86																								
Sep-86																								
Oct-86	10/06/86	0.79	8	2018		1566 <	0.5			277	1	72	1000	176	166.6	18.1	97.1	<	0.05	0.53	0.07			
Nov-86																								
Dec-86																								
Jan-87																								
Feb-87																								
Mar-87																								
Apr-87																								
May-87	05/19/87	0.89	8.8	1100	8	1000				156		26	564		895				0.98		12.1			AFTER RAIN AND SNOW
Jun-87																								
Jul-87	07/16/87	0.08	9	365	13.1																			

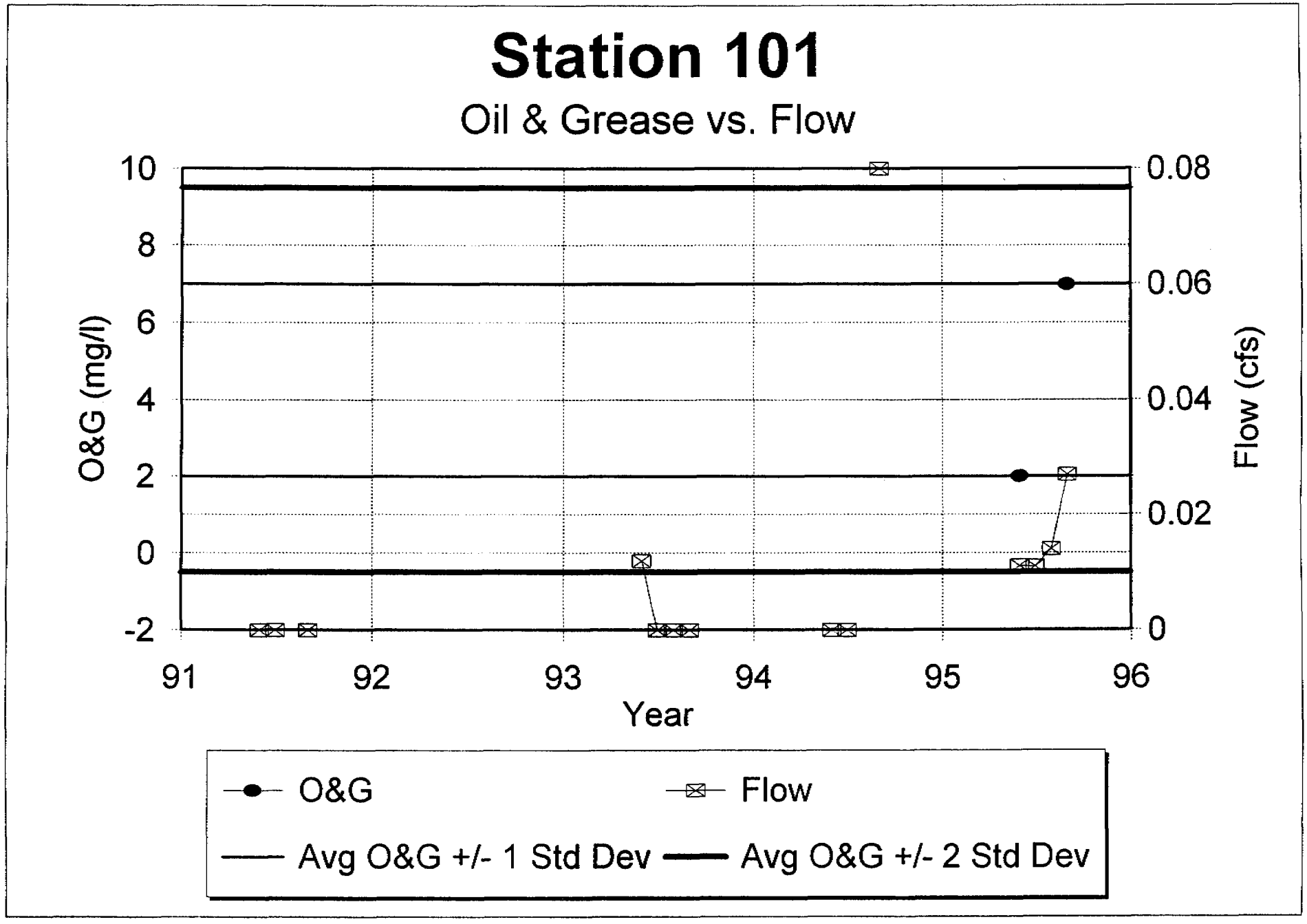

Station 101
SO4 vs. Flow
2500
2000
1500
1000
500
0
SO4 (mg/l)
0.08
0.06
0.04
0.02
0
Flow (cfs)
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

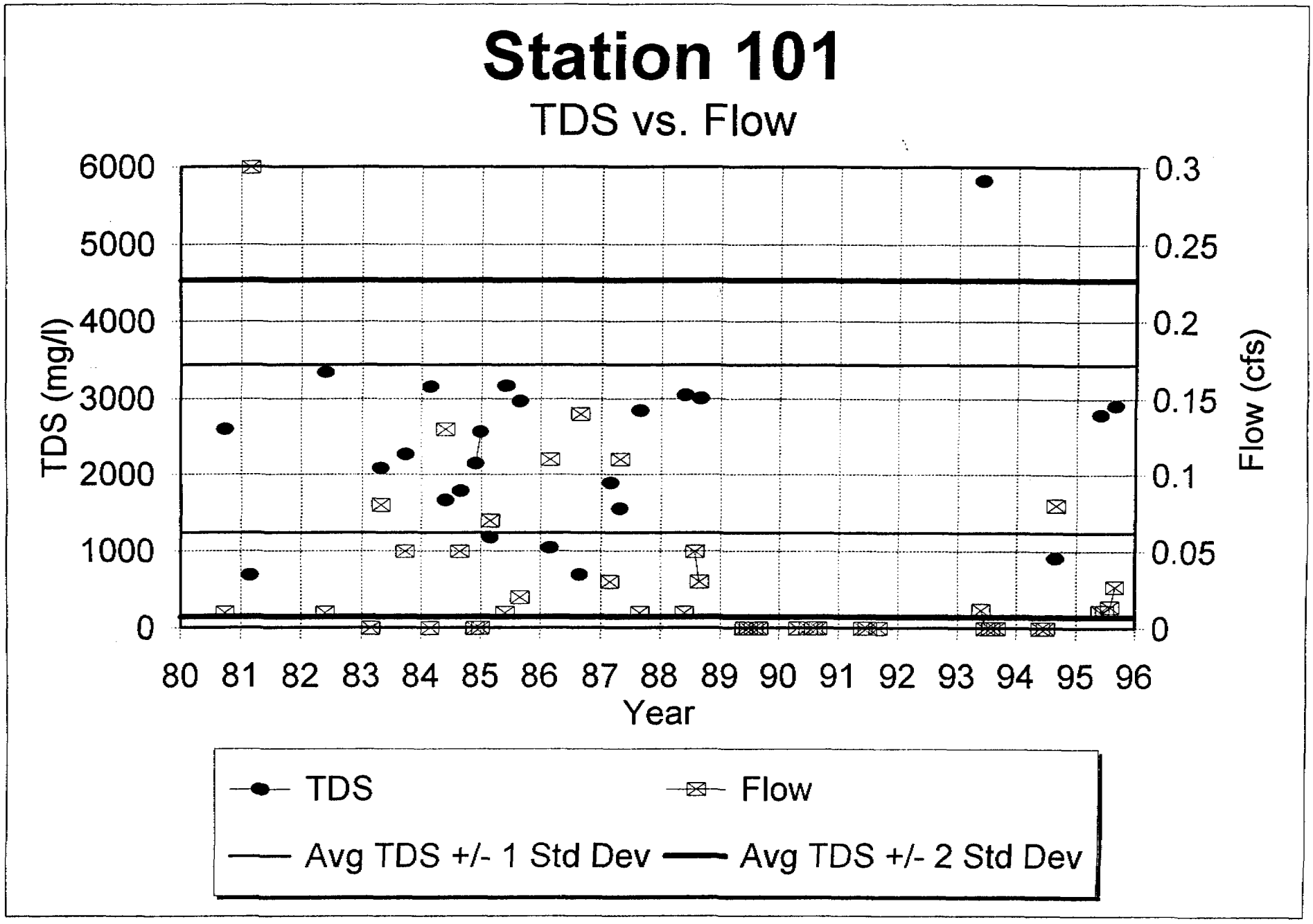

Station 101
HCO3 vs. Flow
600
500
400
300
200
100
HCO3 (mg/l)
0.08
0.06
0.04
0.02
0
Flow (cfs)
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev

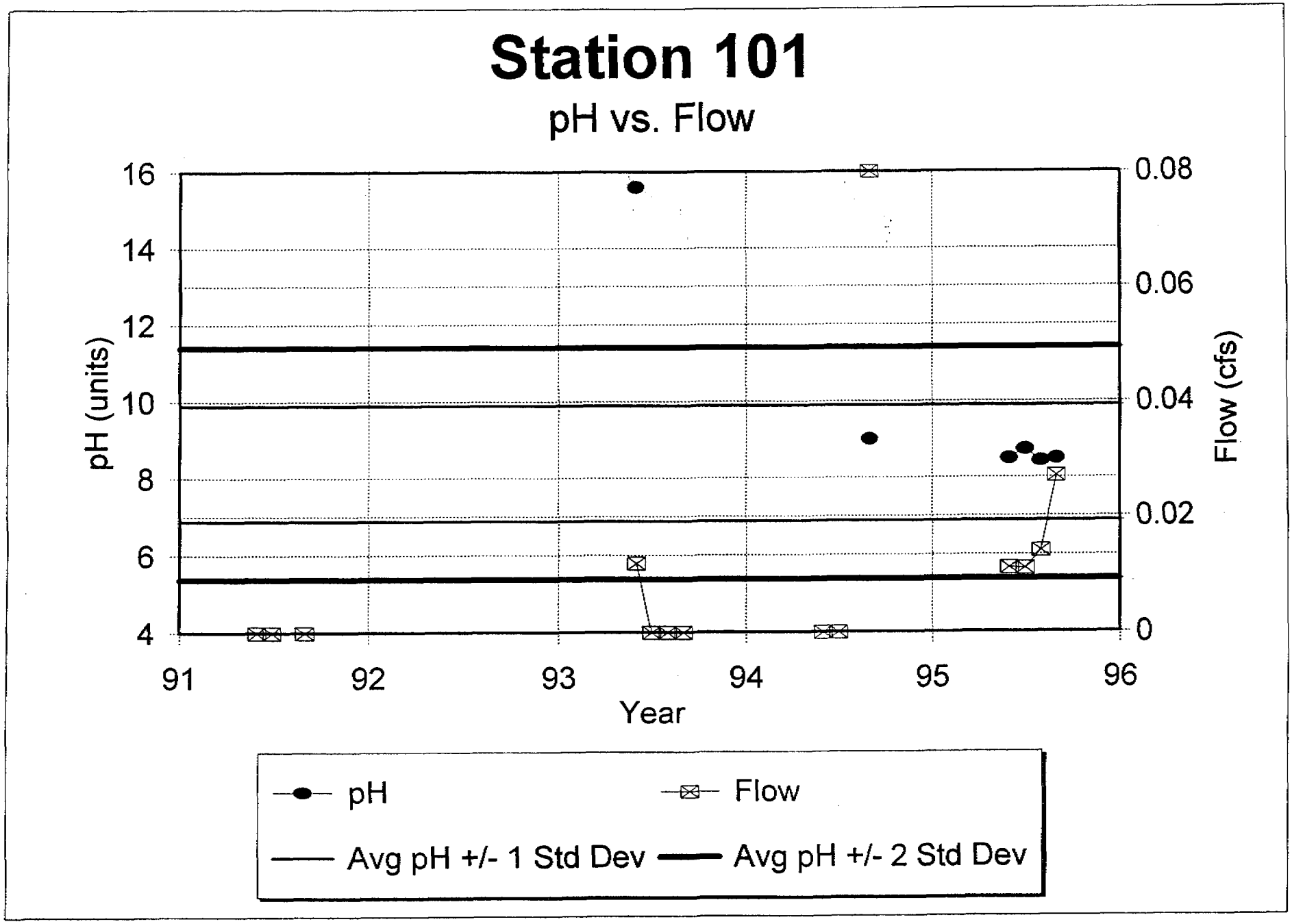

Station 101
Cl vs. Flow
Cl (mg/l)
350
300
250
200
150
100
50
0
-50
0.08
0.06
0.04
0.02
0
Flow (cfs)
91
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev

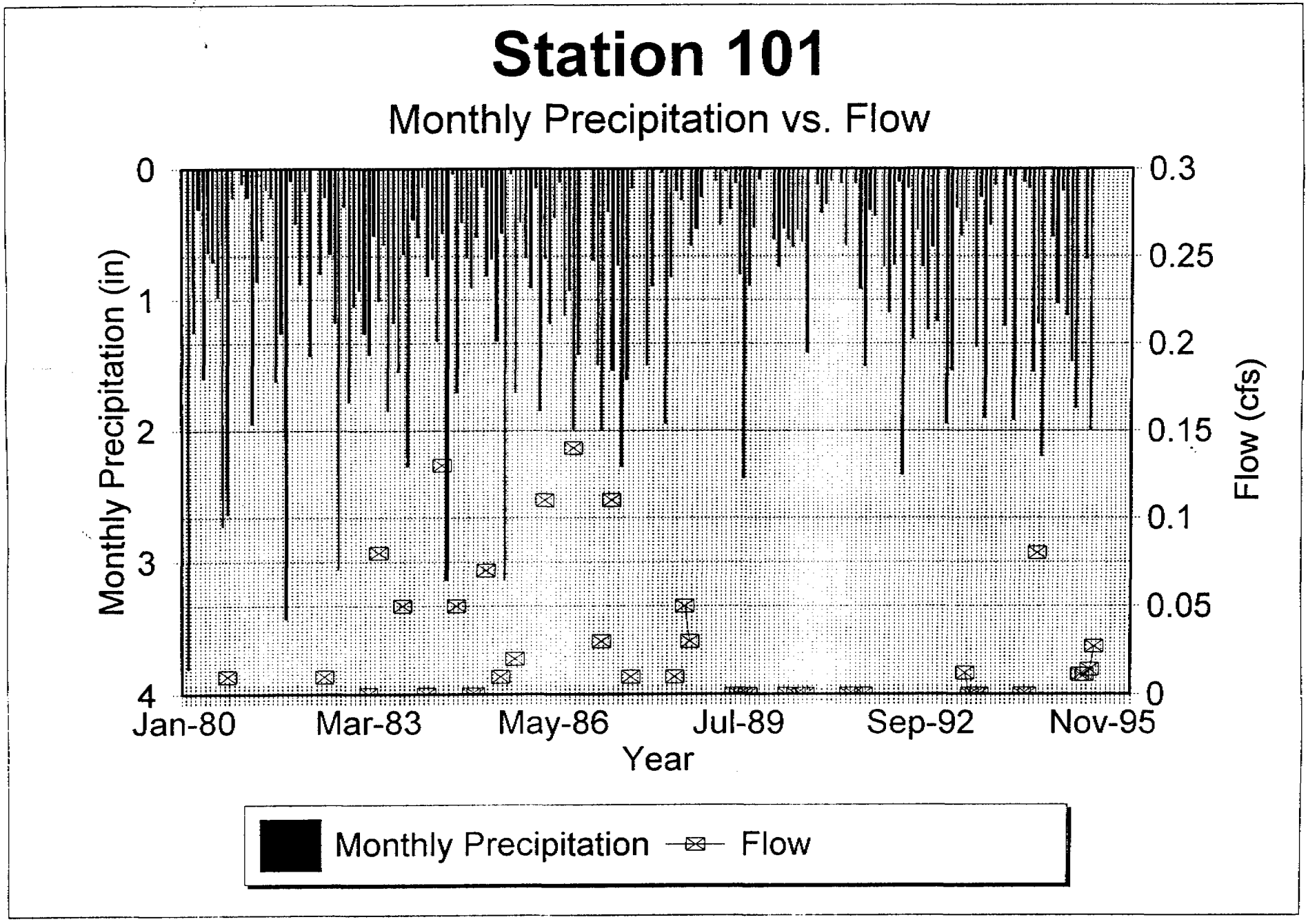

Station 101
Mg vs. Flow
500
400
300
200
100
0
-100
Mg (mg/l)
0.08
0.06
0.04
0.02
0
Flow (cfs)
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 101
Ca vs. Flow
400
350
300
250
200
150
100
50
0
Ca (mg/l)
0.08
0.06
0.04
0.02
0
Flow (cfs)
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 101
Oil & Grease vs. Flow
O&G (mg/l)
Flow (cfs)
Year
10
8
6
4
2
0
-2
0.08
0.06
0.04
0.02
0
91
92
93
94
95
96
O&G
Flow
Avg O&G +/- 1 Std Dev
Avg O&G +/- 2 Std Dev


Station 101
TDS vs. Flow
TDS (mg/l)
6000
5000
4000
3000
2000
1000
0
Flow (cfs)
0.3
0.25
0.2
0.15
0.1
0.05
0
80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 101
pH vs. Flow
16
14
12
10
8
6
4
pH (units)
0.08
0.06
0.04
0.02
0
Flow (cfs)
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev


Station 101
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
1
2
3
4
Flow (cfs)
0.3
0.25
0.2
0.15
0.1
0.05
0
Jan-80
Mar-83
May-86
Jul-89
Sep-92
Nov-95
Year
Monthly Precipitation
Flow

Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 6, 1996

Station: 101 | Property: Star Point | Location: 1500' N 2000' W of SE corn. Sec. 10 T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 7250

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/25/93	0.012	15.6	6640	13.22	5824	32		3940	537	48	58	1655	222	345	13	186	<	0.02 <	0.02 <	0.01	
Jul-93	07/26/93	0																				
Aug-93	08/18/93	0																				
Sep-93	09/28/93	0																				
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/20/94	0																				
Jul-94	07/20/94	0																				
Aug-94																						
Sep-94	09/21/94	0.08	9	1355	13.8	914	16		243	281	18	240	198	38	36	6	258		0.26	0.39 <	0.01	
Oct-94																						
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/23/95	0.0111	8.5	3310	9	2790 <	5 <	2	1740	321 <	2	310	1410	232	283	10.4	171	-2.4 <	0.01 <	0.01 <	0.005	
Jul-95	07/27/95	0.011	8.75	3270	28																	
Aug-95	08/29/95	0.014	8.44	3430	11																	
Sep-95	09/29/95	0.027	8.5	3280	6.67	2910	16	7	1820	350 <	2	220	1450	258	285	9.2	162	-0.1 <	0.01	0.11 <	0.01	
Oct-95																						
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
Count		44	28	28	21	24	23	2	7	23	8	23	23	23	23	23	24	2	22	23	23	
Minimum		0	7.1	970	2	689 <	2 <	2	243	121 <	1	3	198	38	0.6	5	19	-2.4 <	0.01 <	0.01 <	0.005	
Maximum		0.3	15.6	6640	28	5824 <	3318 <	7	3940	537 <	48	310	2080	380	540	13	258	-0.1 <	2.32 <	54 <	1.13	
Average		0.0313	8.3782	2859.6	10.823	2338.6 <	336.17 <	4.5	1961.1	322.3 <	9.25	148.96	1233.5	208.9	223.26	9.7652	135.12	-1.25 <	0.1877 <	2.878 <	0.116	
Standard Deviation		0.0558	1.5077	1194.6	6.7398	1096.8 <	835.48 <	2.5	995.84	88.174 <	15.634	86.682	539.6	85.175	126.93	2.1255	58.802	1.15 <	0.4849 <	10.958 <	0.2419	
Avg. -1 Std. Dev.		-0.025	6.8705	1665	4.0835	1241.8 <	-499.3 <	2	965.3	234.13 <	-6.384	62.274	693.87	123.73	96.326	7.6397	76.515	-2.4 <	-0.297 <	-8.08 <	-0.126	
Avg. +1 Std. Dev.		0.087	9.8859	4054.2	17.563	3435.5 <	1171.7 <	7	2957	410.48 <	24.884	235.64	1773.1	294.08	350.2	11.891	193.72	-0.1 <	0.6726 <	13.836 <	0.3579	
Avg. -2 Std. Dev.		-0.08	5.3628	470.47	-2.656	144.95 <	-1335 <	-0.5	-30.54	145.96 <	-22.02	-24.41	154.27	38.554	-30.61	5.5141	17.913	-3.55 <	-0.782 <	-19.04 <	-0.368	
Avg. +2 Std. Dev.		0.1428	11.394	5248.7	24.303	4532.3 <	2007.1 <	9.5	3952.8	498.65 <	40.519	322.32	2312.7	379.25	477.13	14.016	252.32	1.05 <	1.1576 <	24.795 <	0.5998	

NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

Cyprus Plateau Mining Company - Water Quality Data

Station: 101 | Property: Star Point | Location: 1500' N 2000' W of SE corn. Sec. 10 T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Print Date: April 25, 1996 | Elevation: 7250

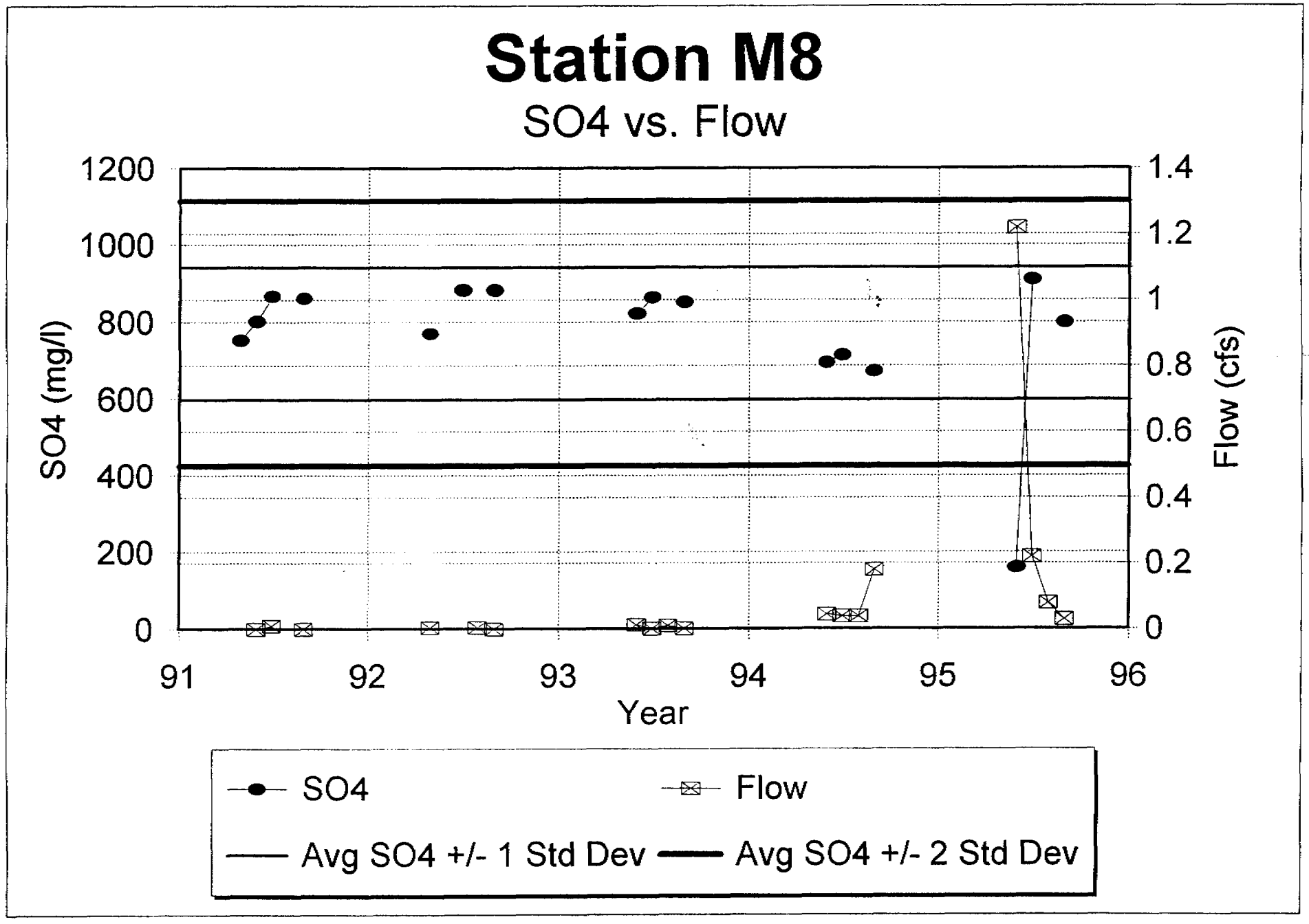
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-86																						
Feb-86																						
Mar-86	03/11/86	0.11	7.7	1550	3	1047	46			289		32	540	140	101	10	30	<	0.05	0.33	0.04	
Apr-86																						
May-86																						
Jun-86																						
Jul-86																						
Aug-86																						
Sep-86	09/24/86	0.14	7.3	1000	10	694	3318			121	1	69	350	78	57	5	58	<	0.05	0.63	0.44	
Oct-86																						
Nov-86																						
Dec-86																						
Jan-87																						
Feb-87																						
Mar-87	03/18/87	0.03	7.9	2600		1894	11			301		206	1000	192	195	11	142	<	0.05	0.1 <	0.01	
Apr-87																						
May-87	05/26/87	0.11	9	1800	6.6	1554	50			281		40	838	157	158	11	19		0.02	0.47	0.1	
Jun-87																						
Jul-87																						
Aug-87																						
Sep-87	09/24/87	0.01	8.7	3290	6.1	2844	6		1974	368		207	1718	263	540	9	151	<	0.02 <	0.02 <	0.01	
Oct-87																						
Nov-87																						
Dec-87																						
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88	06/15/88	0.01	8.7	2270	10.2	3046 <	2		1982	354		117	1702	255	328	10	163	<	0.02 <	0.02 <	0.01	
Jul-88	07/16/88		8.6	2950	21.8																	
Aug-88	08/20/88	0.05	8.8	2150	11.4																	
Sep-88	09/30/88	0.03	9.2	2115	7.5	3006	4		2029	332		236	1753	262	335	10	164	<	0.02	0.02 <	0.01	
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89	06/05/89	0																				
Jul-89	07/11/89	0																				
Aug-89	08/22/89	0																				
Sep-89	09/15/89	0																				
Oct-89																						
Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90	05/30/90	0																				
Jun-90																						
Jul-90	07/06/90	0																				
Aug-90	08/30/90	0																				
Sep-90	09/24/90	0																				
Oct-90																						
Nov-90																						
Dec-90																						
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91	06/13/91	0																				
Jul-91	07/16/91	0																				
Aug-91																						
Sep-91	09/17/91	0																				
Oct-91																						
Nov-91																						
Dec-91																						

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 25, 1996

Station: 101 | Property: Star Point | Location: 1500' N 2000' W of SE corn. Sec. 10 T15S, R8E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 7250

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-80																						
Feb-80																						
Mar-80																						
Apr-80																						
May-80																						
Jun-80																						
Jul-80																						
Aug-80																						
Sep-80																						
Oct-80	10/01/80	0.01	7.3	3900	18	2600	33			261		3	1758	296	216	10.7	190		0.65	0.214	0.018	
Nov-80																						
Dec-80																						
Jan-81																						
Feb-81																						
Mar-81	03/25/81	0.3	7.6	970	2	689	404			151		76	328	92.8	49.4	5.8	62.8		0.21	54	1.13	
Apr-81																						
May-81																						
Jun-81																						
Jul-81																						
Aug-81																						
Sep-81																						
Oct-81																						
Nov-81	11/24/81																					INACCESSIBLE
Dec-81	12/29/81																					INACCESSIBLE
Jan-82	01/14/82																					FROZEN - NO FLOW
Feb-82																						
Mar-82																						
Apr-82																						
May-82																						
Jun-82	06/22/82	0.01	7.9	5100	22	3340	354			360		153	2080	380	330	11	170		2.32	5.55	0.205	
Jul-82																						
Aug-82																						
Sep-82																						
Oct-82																						
Nov-82																						
Dec-82																						
Jan-83																						
Feb-83																						
Mar-83	03/30/83	0			3																	
Apr-83																						
May-83	05/12/83	0.08	8.1	2700	3	2083	108			456		193	1200	346	210	12	135		0.06	0.44	0.03	
Jun-83																						
Jul-83																						
Aug-83																						
Sep-83																						
Oct-83	10/07/83	0.05	8	3000	13	2268	101			368	1	214	1180	186	237	9	215		0.06	0.29	0.02	
Nov-83																						
Dec-83																						
Jan-84	01/06/84																					FROZEN - NO FLOW
Feb-84																						
Mar-84	03/30/84	0	8	3800		3152	37			451		207	1650	276	333	10	153	<	0.05	0.11	0.02	
Apr-84																						
May-84																						
Jun-84	06/29/84	0.13	7.3	2100		1670	122			296		94	900	156	164	11	90	<	0.05	0.51	0.03	
Jul-84																						
Aug-84																						
Sep-84	09/21/84	0.05	7.1	2300		1783	342			290	1	23	960	186	166	13	102	<	0.05	1.92	0.1	
Oct-84																						
Nov-84																						
Dec-84	12/11/84	0	7.4	2770		2146	25			298		256	1560	111	0.6	10	78	<	0.05	0.56	0.09	
Jan-85	01/11/85	0	7.8	3528		2560											166					
Feb-85	02/21/85																					FROZEN - NO FLOW
Mar-85	03/31/85	0.07	8	1660		1183	2682			235		72	640	130	120	6	60	<	0.05 <	0.05	0.33	
Apr-85																						
May-85																						
Jun-85	06/27/85	0.01	7.9	3750		3168	8			355		215	1800	278	344	11	165			0.38	0.02	
Jul-85																						
Aug-85																						
Sep-85	09/27/85	0.02	7.5	3481	8	2962	10			357	1	185	1700	270	302	10.5	152	<	0.05 <	0.05	0.02	
Oct-85																						
Nov-85																						
Dec-85																						


Station M8
SO4 vs. Flow
SO4 (mg/l)
1200
1000
800
600
400
200
0
Flow (cfs)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 26, 1996

Station: 87101CV | Property: Star Point | Location: 300' S 1500' E of NW corn. Sec 10, T15S, R7E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 8400

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-87																							
Feb-87																							
Mar-87																							
Apr-87																							
May-87																							
Jun-87																							
Jul-87																							
Aug-87																							
Sep-87	09/23/87	0.06	8.6	390	6.9	280 <	2		285	294		5	18	60	33	1	7	<	0.02	0.21 <	0.01		
Oct-87																							
Nov-87																							
Dec-87																							
Jan-88																							
Feb-88																							
Mar-88																							
Apr-88																							
May-88																							
Jun-88																							
Jul-88																							
Aug-88																							
Sep-88																							
Oct-88																							
Nov-88																							
Dec-88																							
Jan-89																							
Feb-89																							
Mar-89																							
Apr-89																							
May-89																							
Jun-89																							
Jul-89																							
Aug-89																							
Sep-89																							
Oct-89																							
Nov-89																							
Dec-89																							
Jan-90																							
Feb-90																							
Mar-90																							
Apr-90																							
May-90																							
Jun-90																							
Jul-90																							
Aug-90																							
Sep-90																							
Oct-90																							
Nov-90																							
Dec-90																							
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91																							
Jul-91																							
Aug-91																							
Sep-91																							
Oct-91																							
Nov-91																							
Dec-91																							
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92																							
May-92																							
Jun-92																							
Jul-92																							
Aug-92																							
Sep-92																							
Oct-92																							
Nov-92																							
Dec-92																							

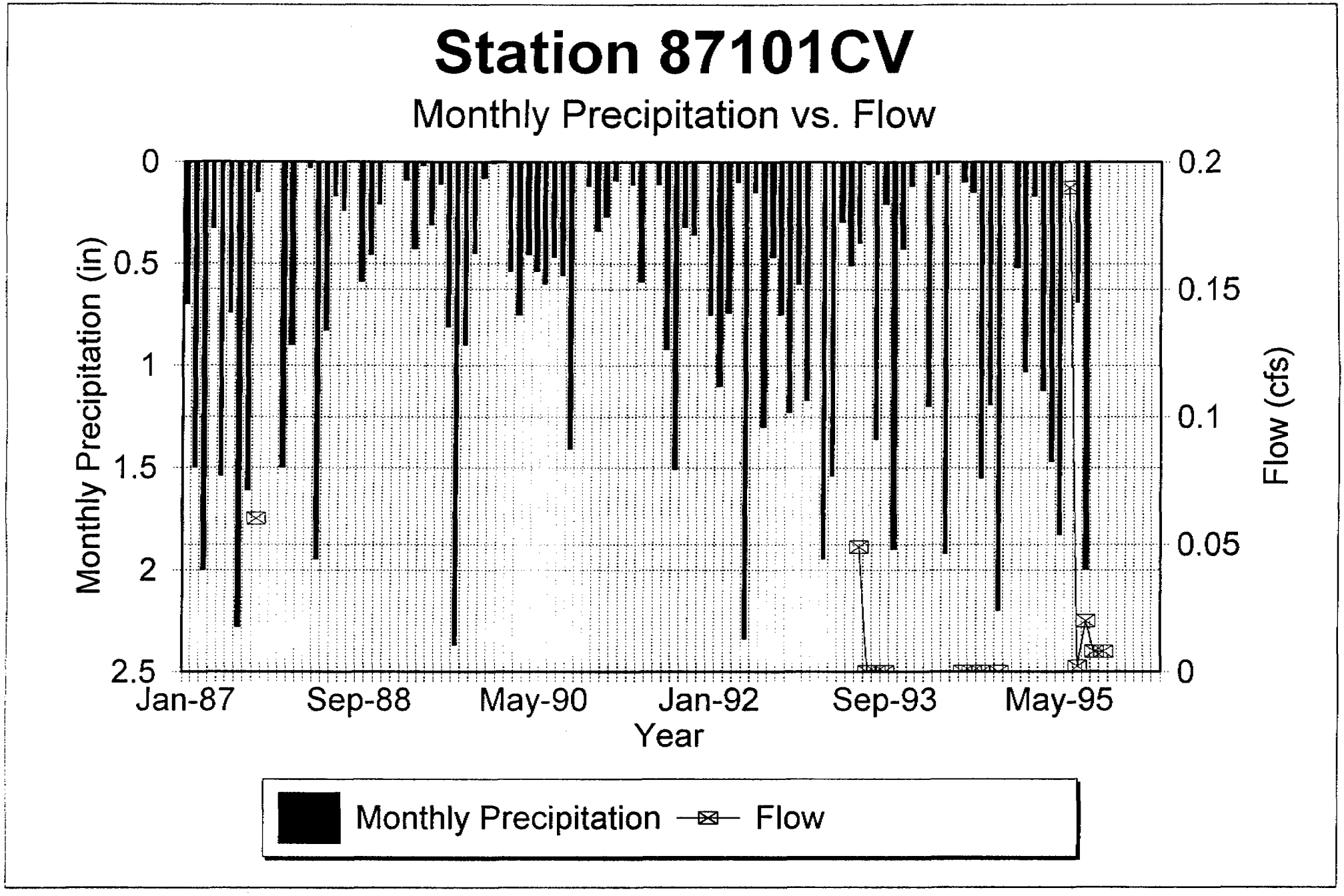
Cyprus Plateau Mining Company - Water Quality Data

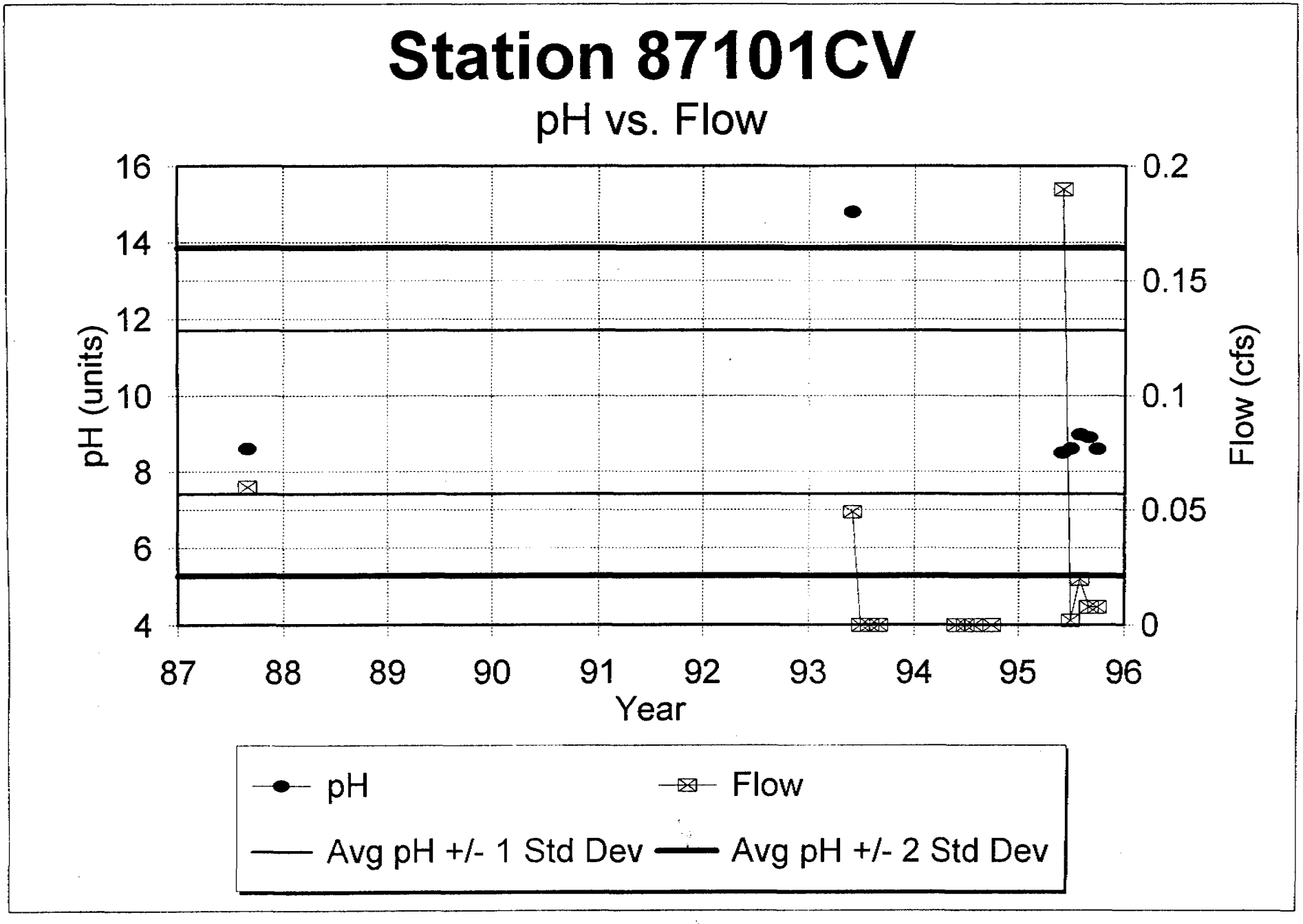
Print Date: April 26, 1996

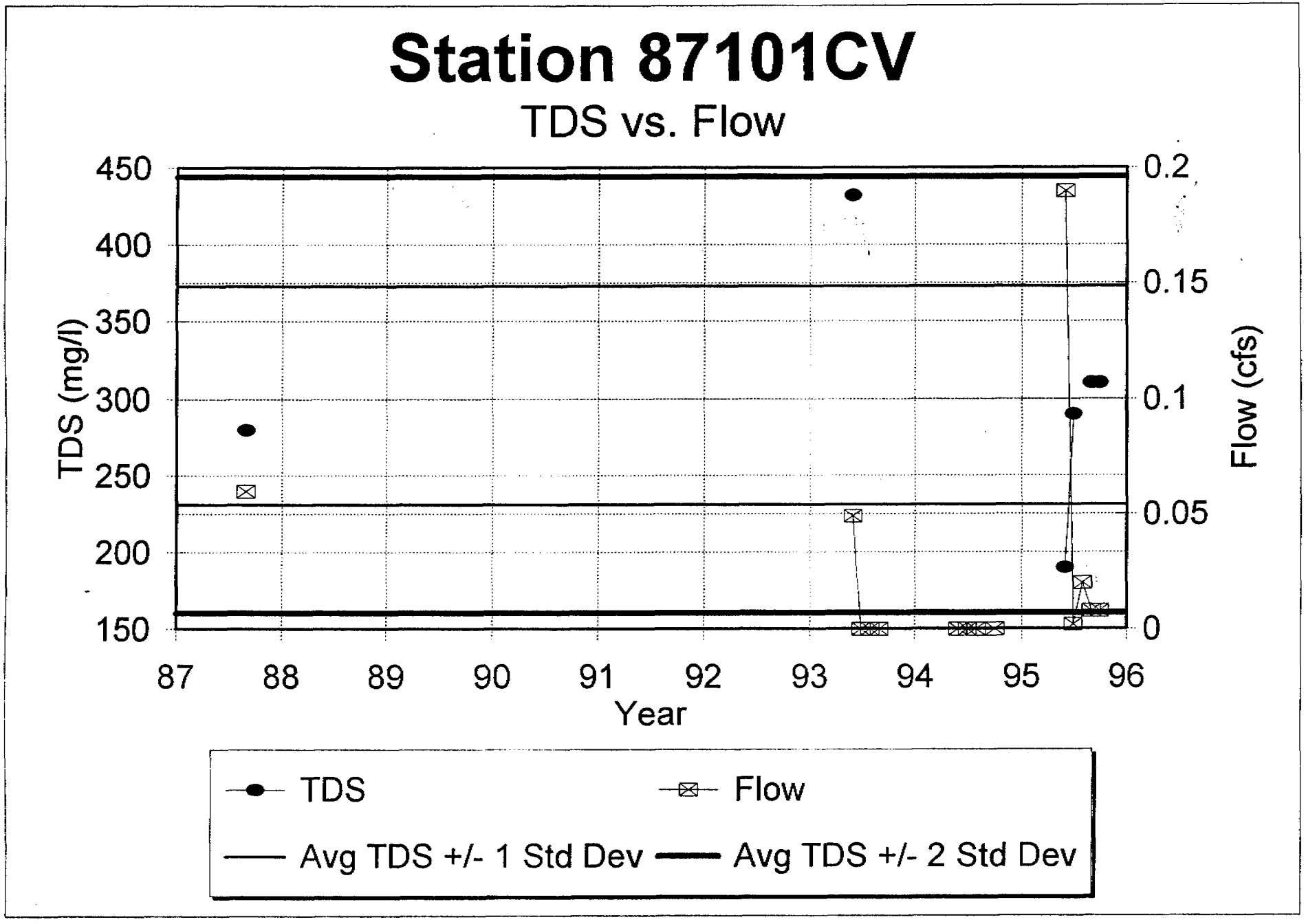
Station: 87101CV | Property: Star Point | Location: 300' S 1500' E of NW corn. Sec 10, T15S, R7E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 8400

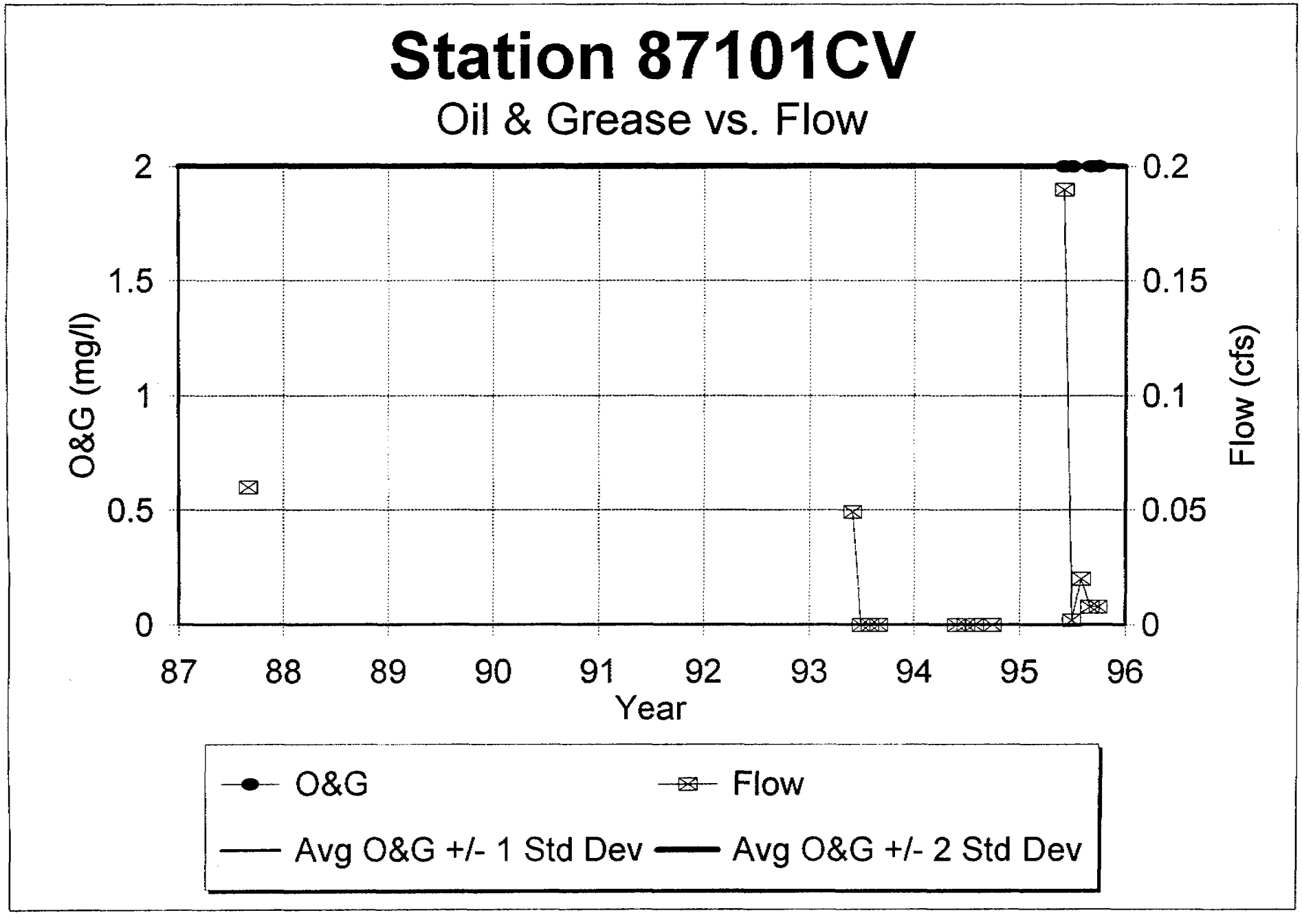
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/21/93	0.049	14.8	772	22.8	432	16		408	222	12	4	16	47	21	1	4	<	0.02	0.05 <	0.01	
Jul-93	07/26/93	0																				NO FLOW
Aug-93	08/17/93	0																				NO FLOW
Sep-93	09/13/93	0																				NO FLOW
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/28/94	0																				NO FLOW
Jul-94	07/20/94	0																				NO FLOW
Aug-94	08/31/94	0																				NO FLOW
Sep-94																						
Oct-94	10/25/94	0																				NO FLOW
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/21/95	0.19	8.5	298	11.5	190	14 <	2	170	138 <	2	2	30	42.6	15.5	1.1	3.3	1.7	0.06	0.58	0.014	
Jul-95	07/26/95	0.002	8.6	477	16	290 <	5 <	2	295	235	10	6	40	64.2	32.8	1.5	9.9	3.8 <	0.01	0.01 <	0.005	
Aug-95	08/28/95	0.02	8.97	516	13																	Rain in last 24 hrs
Sep-95	09/27/95	0.008	8.9	613	3	310 <	5 <	2	300	249 <	2	7	36	66.1	32.8	1.3	5.8	2.9 <	0.01	0.01 <	0.005	
Oct-95	10/19/95	0.008	8.59	540	39	310 <	5 <	2	315	252	6	6	50	66.9	35.9	1.5	6.5	1.8 <	0.01	0.01 <	0.005	
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
Count		14	7	7	7	6	6	4	6	6	5	6	6	6	6	6	6	4	6	6	6	
Minimum		0	8.5	298	3	190 <	2 <	2	170	138 <	2	2	16	42.6	15.5	1	3.3	1.7 <	0.01	0.01 <	0.005	
Maximum		0.19	14.8	772	39	432 <	16 <	2	408	294 <	12	7	50	66.9	35.9	1.5	9.9	3.8 <	0.06	0.58 <	0.014	
Average		0.0241	9.5657	515.14	16.029	302 <	7.8333 <	2	295.5	231.67 <	6.4	5	31.667	57.8	28.5	1.2333	6.0833	2.55 <	0.0217	0.145 <	0.0082	
Standard Deviation		0.0497	2.1431	141.64	11.06	70.946 <	5.2095 <	0	69.423	47.394 <	4.0792	1.633	11.968	9.5322	7.4971	0.2134	2.1505	0.8617 <	0.0177	0.207 <	0.0034	
Avg. -1 Std. Dev.		-0.026	7.4227	373.5	4.9684	231.05 <	2.6238 <	2	226.08	184.27 <	2.3208	3.367	19.699	48.268	21.003	1.0199	3.9328	1.6883 <	0.0039	-0.062 <	0.0047	
Avg. +1 Std. Dev.		0.0737	11.709	656.78	27.089	372.95 <	13.043 <	2	364.92	279.06 <	10.479	6.633	43.634	67.332	35.997	1.4468	8.2339	3.4117 <	0.0394	0.352 <	0.0116	
Avg. -2 Std. Dev.		-0.076	5.2796	231.86	-6.092	160.11 <	-2.586 <	2	156.65	136.88 <	-1.758	1.734	7.7316	38.736	13.506	0.8065	1.7823	0.8266 <	-0.014	-0.269 <	0.0013	
Avg. +2 Std. Dev.		0.1234	13.852	798.43	38.149	443.89 <	18.252 <	2	434.35	326.46 <	14.558	8.266	55.602	76.864	43.494	1.6602	10.384	4.2734 <	0.0571	0.559 <	0.015	

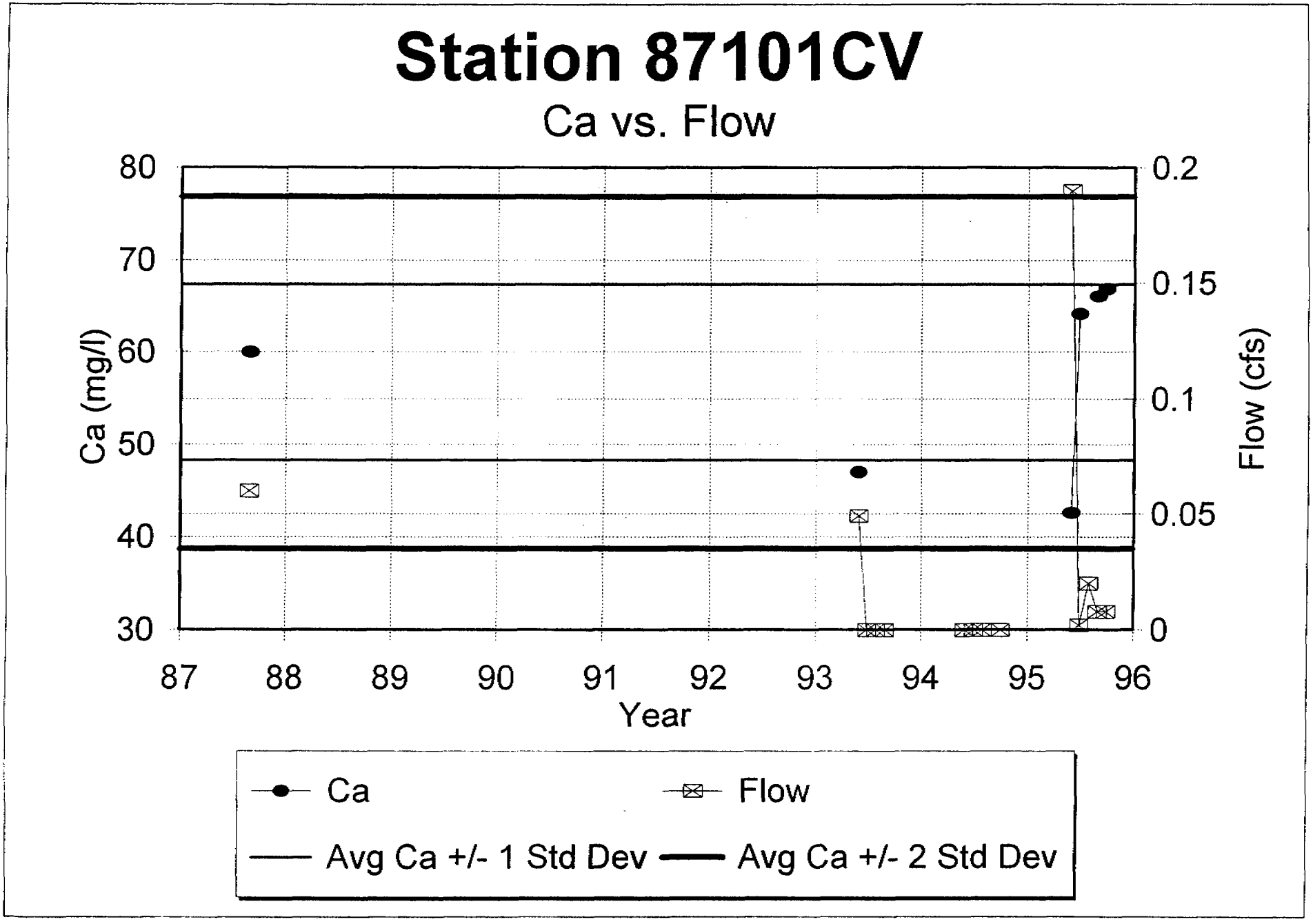
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

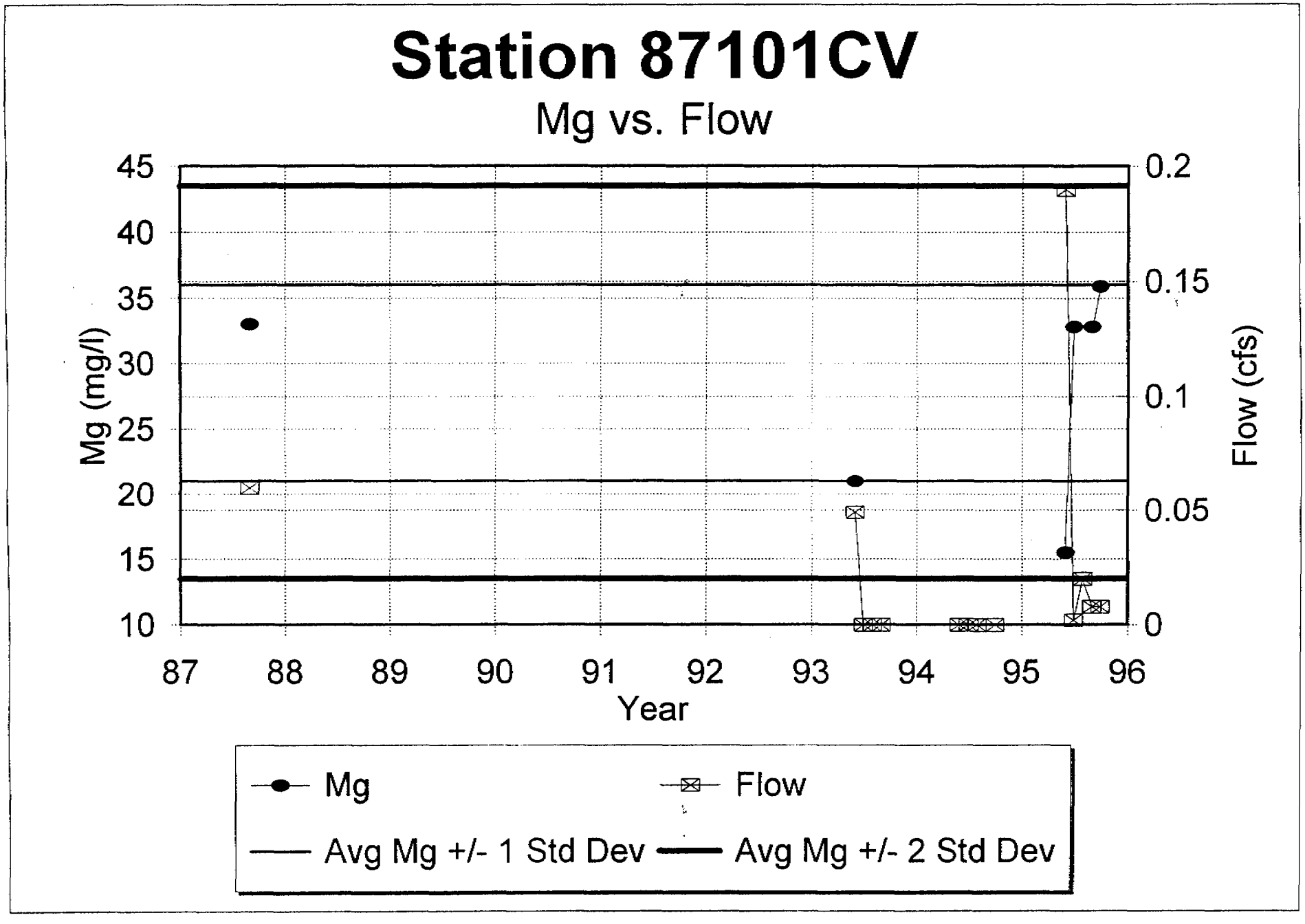

Station 87101CV
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Flow (cfs)
0.2
0.15
0.1
0.05
0
Jan-87
Sep-88
May-90
Jan-92
Sep-93
May-95
Year
Monthly Precipitation
Flow

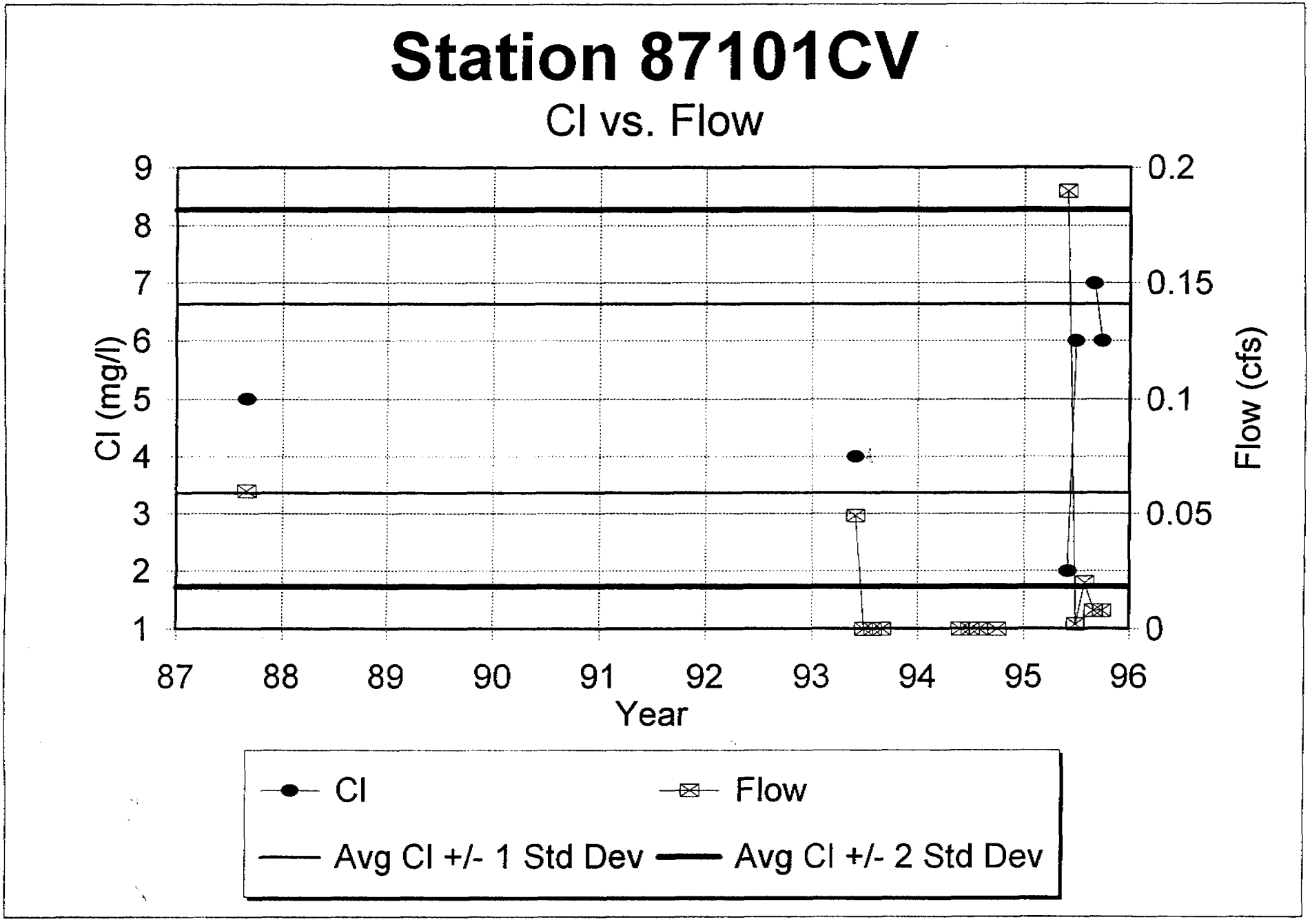

Station 87101CV
pH vs. Flow
16
14
12
10
8
6
4
pH (units)
0.2
0.15
0.1
0.05
0
Flow (cfs)
87
88
89
90
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

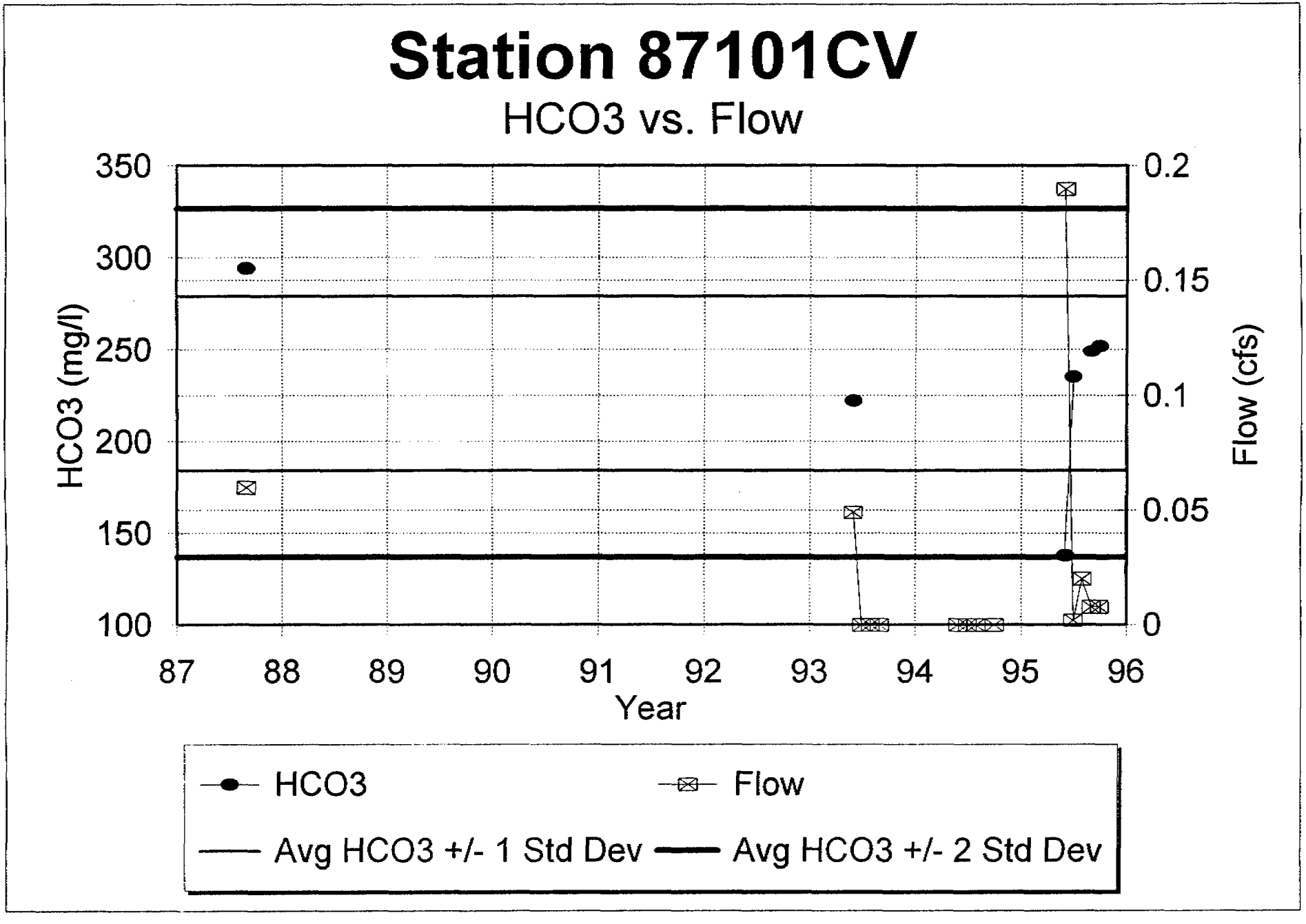

Station 87101CV
TDS vs. Flow
450
400
350
300
250
200
150
TDS (mg/l)
0.2
0.15
0.1
0.05
0
Flow (cfs)
87
88
89
90
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev

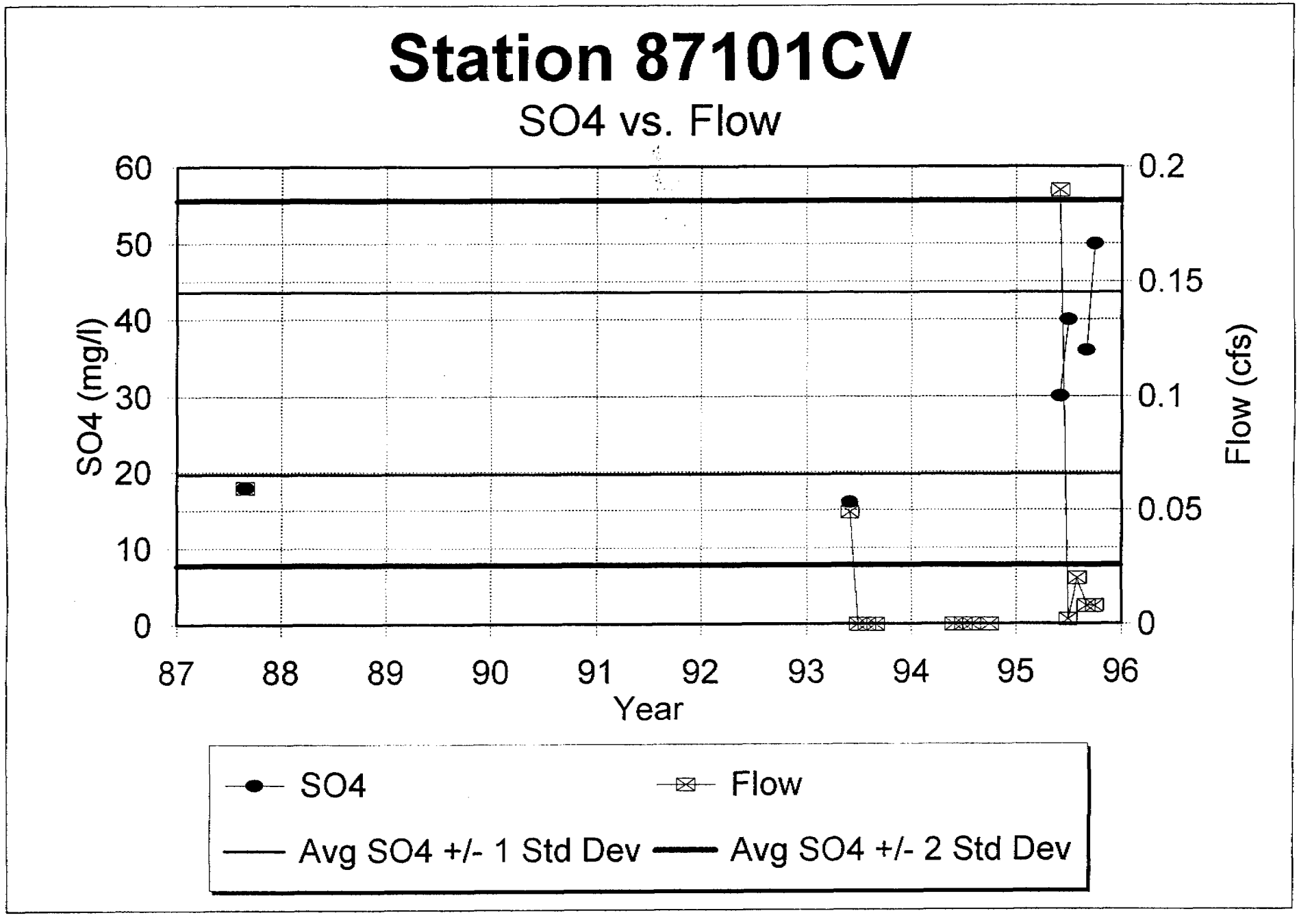

Station 87101CV
Oil & Grease vs. Flow
O&G (mg/l)
Flow (cfs)
Year
2
1.5
1
0.5
0
0.2
0.15
0.1
0.05
0
87
88
89
90
91
92
93
94
95
96
O&G
Flow
Avg O&G +/- 1 Std Dev
Avg O&G +/- 2 Std Dev


Station 87101CV
Ca vs. Flow
Ca (mg/l)
80
70
60
50
40
30
Flow (cfs)
0.2
0.15
0.1
0.05
0
87
88
89
90
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 87101CV
Mg vs. Flow
Mg (mg/l)
45
40
35
30
25
20
15
10
0.2
0.15
0.1
0.05
0
Flow (cfs)
87
88
89
90
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 87101CV
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
9
8
7
6
5
4
3
2
1
0.2
0.15
0.1
0.05
0
87
88
89
90
91
92
93
94
95
96
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 87101CV
HCO3 vs. Flow
350
300
250
200
150
100
HCO3 (mg/l)
0.2
0.15
0.1
0.05
0
Flow (cfs)
87
88
89
90
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 87101CV
SO4 vs. Flow
SO4 (mg/l)
60
50
40
30
20
10
0
Flow (cfs)
0.2
0.15
0.1
0.05
0
87
88
89
90
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 26, 1996

Station: 87102CV | Property: Star Point | Location: 0' S 1500' E of NW corn. Sec 10, T15S, R7E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 8395

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88																						
Jul-88																						
Aug-88																						
Sep-88																						
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89																						
Jul-89																						
Aug-89																						
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Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
Mar-90																						
Apr-90																						
May-90																						
Jun-90																						
Jul-90																						
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Mar-92																						
Apr-92																						
May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/21/93	2.521	7.4	67	13	110 <	2		100		0	1	2	30	6 <	1	2		0.08	0.29	0.01	
Jul-93	07/26/93	1.838	7.8	250	11.9	128 <	2		149	146	7	1	10	45	9 <	1	2	<	0.02	0.17 <	0.01	
Aug-93	07/17/93	1.88	6.9	302	6.2																	
Sep-93	09/13/93	1.75	7.6	292	3.9	144 <	2		168	200	0	2	2	49	11 <	1	2		0.03	0.16		
Oct-93																						
Nov-93																						
Dec-93																						

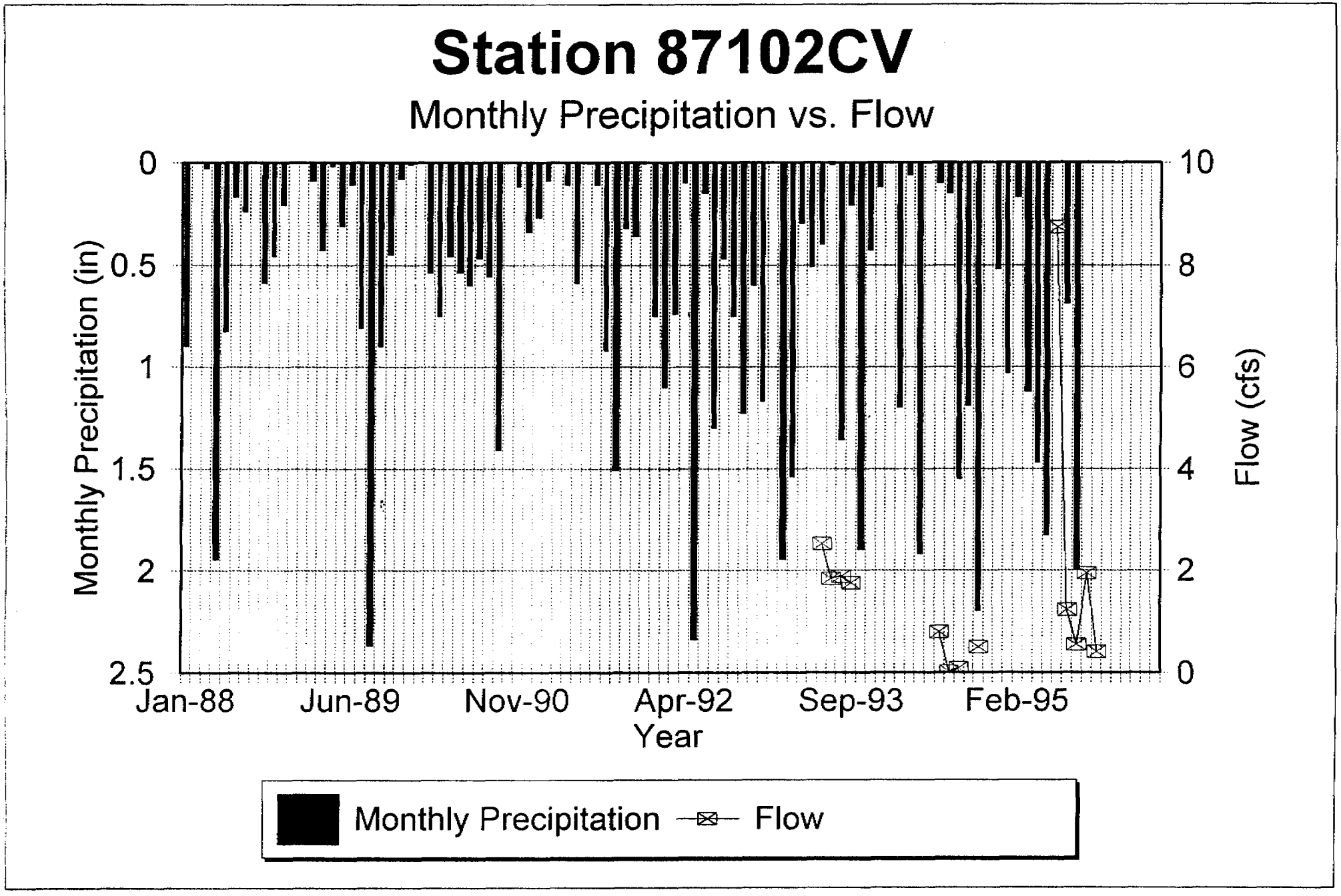
Cyprus Plateau Mining Company - Water Quality Data

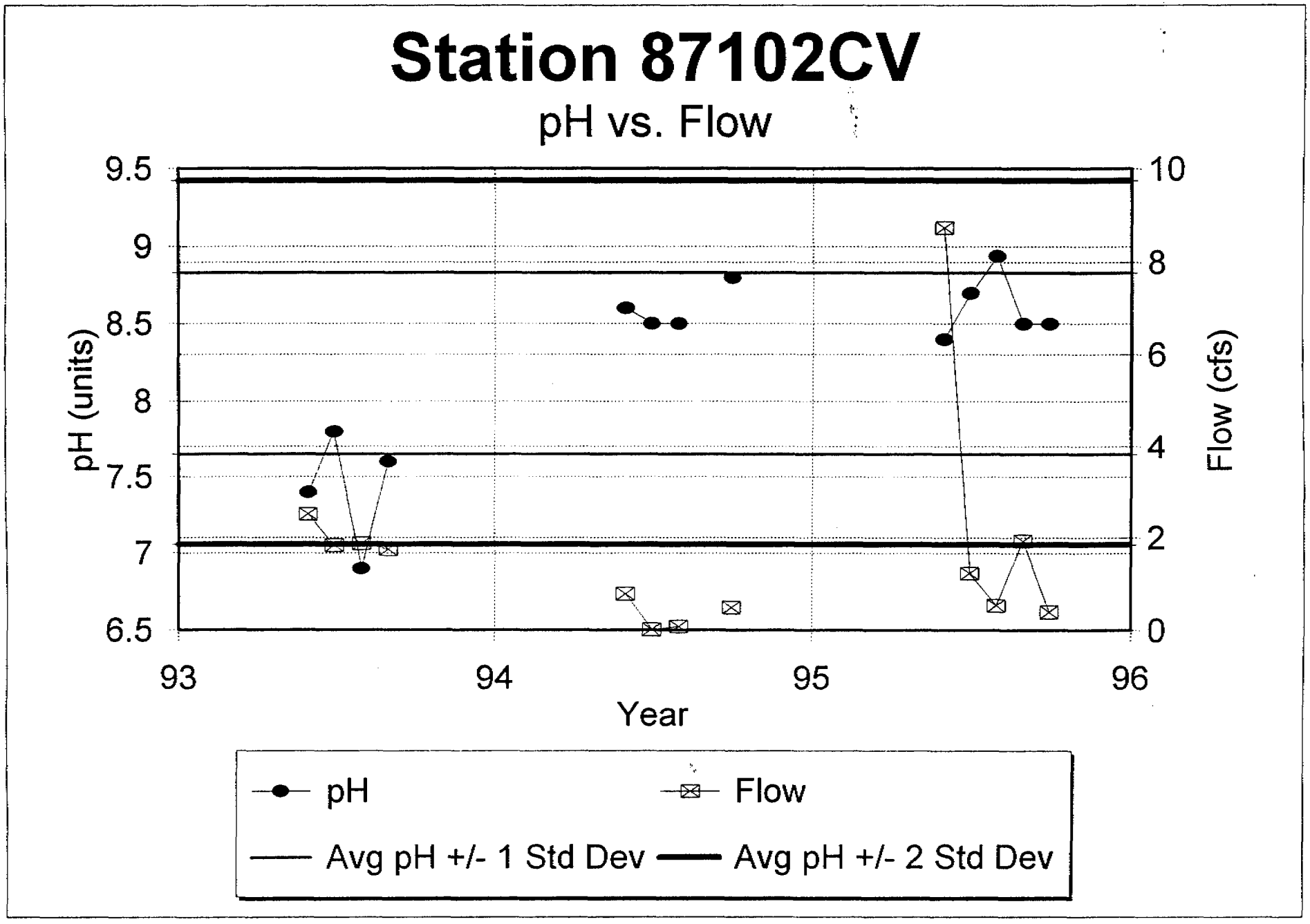
Print Date: April 26, 1996

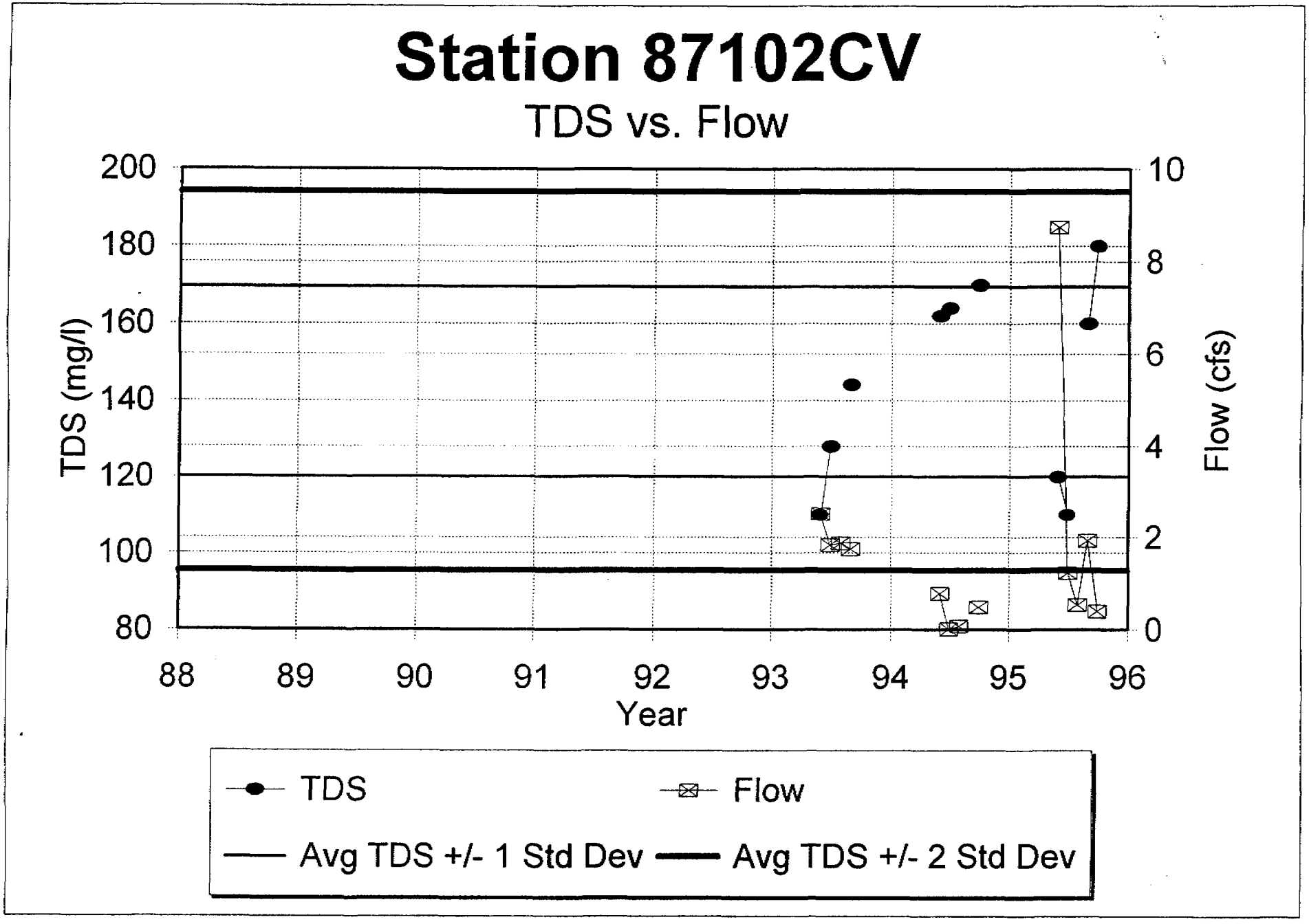
Station: 87102CV | Property: Star Point | Location: 0' S 1500' E of NW corn. Sec 10, T15S, R7E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 8395

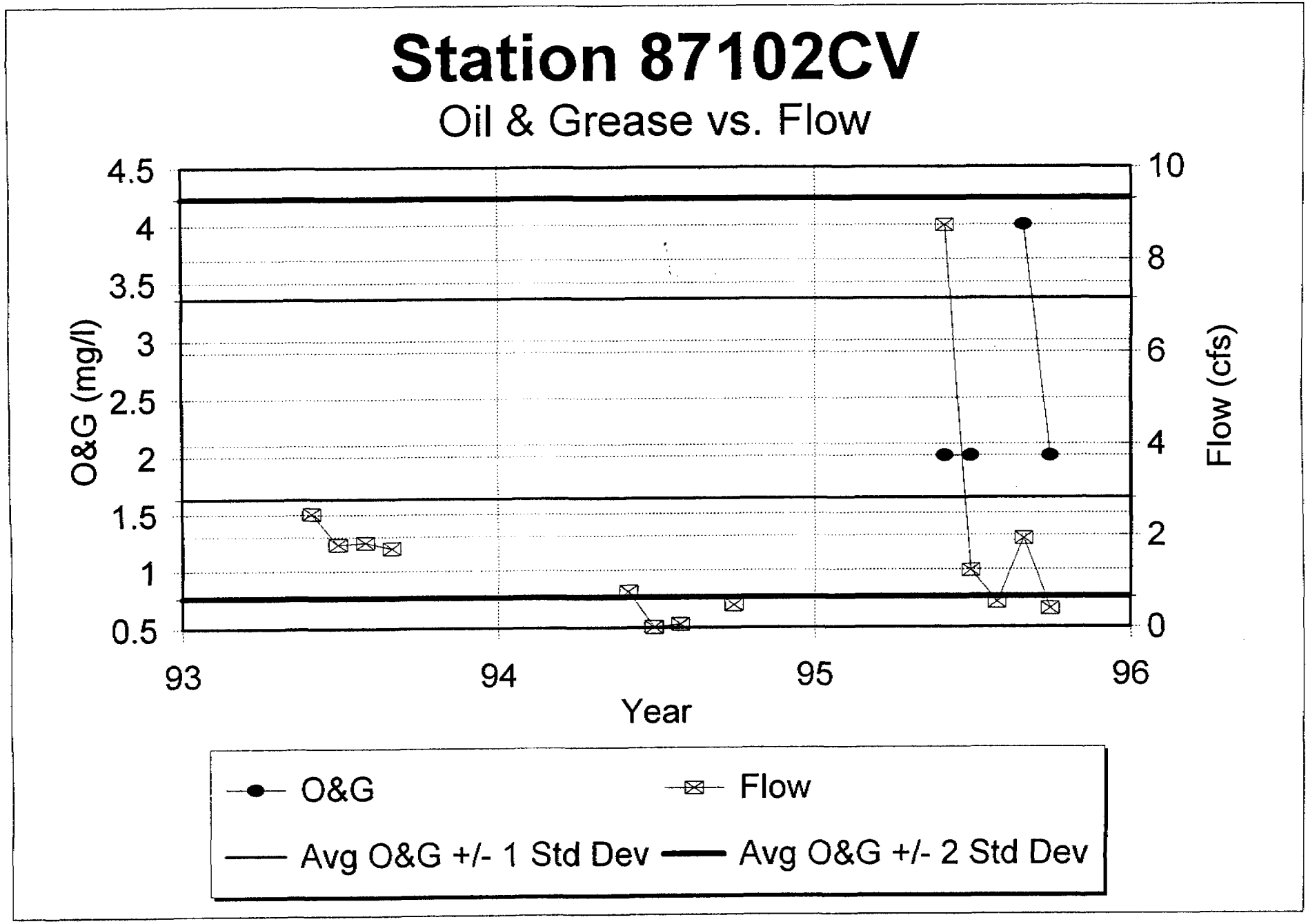
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/28/94	0.794	8.6	342	9.8	162	2		168	198	0	2	6	49	11 <	1	2		0.07	0.17		
Jul-94	07/20/94	0.02	8.5	307	13.4	164 <	2		175	188	7	1	2	52	11 <	1	2		0.08	0.26	0.02	
Aug-94	08/31/94	0.088	8.5	264	9.3																	
Sep-94																						
Oct-94	10/25/94	0.5	8.8	417	1	170 <	5		151		0	1	4	44	10 <	1	3		0.04	0.12		
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/21/95	8.74	8.4	156	11	120	16 <	2	83	71 <	2 <	1	20	25.1	4.9	0.6	1.8	-3.1	0.11	0.72	0.021	
Jul-95	07/26/95	1.235	8.7	239	16	110	10 <	2	141	145 <	2	2	10	42.2	8.6	0.5	2.2	-4.2	0.09	0.33	0.021	
Aug-95	08/28/95	0.543	8.94	298	11																	
Sep-95	09/27/95	1.94	8.5	375	3	160	18	4	165	142 <	2	3	12	49.1	10.4	1	2.2	3.4	0.06	0.22	0.01	
Oct-95	10/19/95	0.41	8.5	305	3.89	180 <	5 <	2	175	155 <	2	3	17	51	11.6	1	2.6	0.9	0.04	0.13 <	0.005	
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
	Count	13	13	13	13	10	10	4	10	8	10	10	10	10	10	10	10	4	10	10	7	
	Minimum	0.02	6.9	67	1	110 <	2 <	2	83	71 <	0 <	1	2	25.1	4.9 <	0.5	1.8	-4.2 <	0.02	0.12 <	0.005	
	Maximum	8.74	8.94	417	16	180 <	18 <	4	175	200 <	7 <	3	20	52	11.6 <	1	3	3.4 <	0.11	0.72 <	0.021	
	Average	1.7122	8.2415	278	8.7223	144.8 <	6.4 <	2.5	147.5	155.63 <	2.2 <	1.7	8.5	43.64	9.35 <	0.91	2.18	-0.75 <	0.062	0.257 <	0.0139	
	Standard Deviation	2.1705	0.5913	86.591	4.4761	24.677 <	5.8344 <	0.866	30.22	39.316 <	2.5612 <	0.781	6.1196	8.6323	2.1556 <	0.1814	0.34	3.0566 <	0.0275	0.1678 <	0.0061	
	Avg. -1 Std. Dev.	-0.458	7.6502	191.41	4.2462	120.12 <	0.5656 <	1.634	117.28	116.31 <	-0.361 <	0.919	2.3804	35.008	7.1944 <	0.7286	1.84	-3.807 <	0.0345	0.0892 <	0.0077	
	Avg. +1 Std. Dev.	3.8828	8.8328	364.59	13.198	169.48 <	12.234 <	3.366	177.72	194.94 <	4.7612 <	2.481	14.62	52.272	11.506 <	1.0914	2.52	2.3066 <	0.0895	0.4248 <	0.02	
	Avg. -2 Std. Dev.	-2.829	7.059	104.82	-0.23	95.446 <	-5.269 <	0.7679	87.06	78.993 <	-2.922 <	0.138	-3.739	26.375	5.0389 <	0.5472	1.5	-6.863 <	0.007	-0.079 <	0.0016	
	Avg. +2 Std. Dev.	6.0533	9.4241	451.18	17.674	194.15 <	18.069 <	4.2321	207.94	234.26 <	7.3225 <	3.262	20.739	60.905	13.661 <	1.2728	2.86	5.3631 <	0.117	0.5926 <	0.0261	

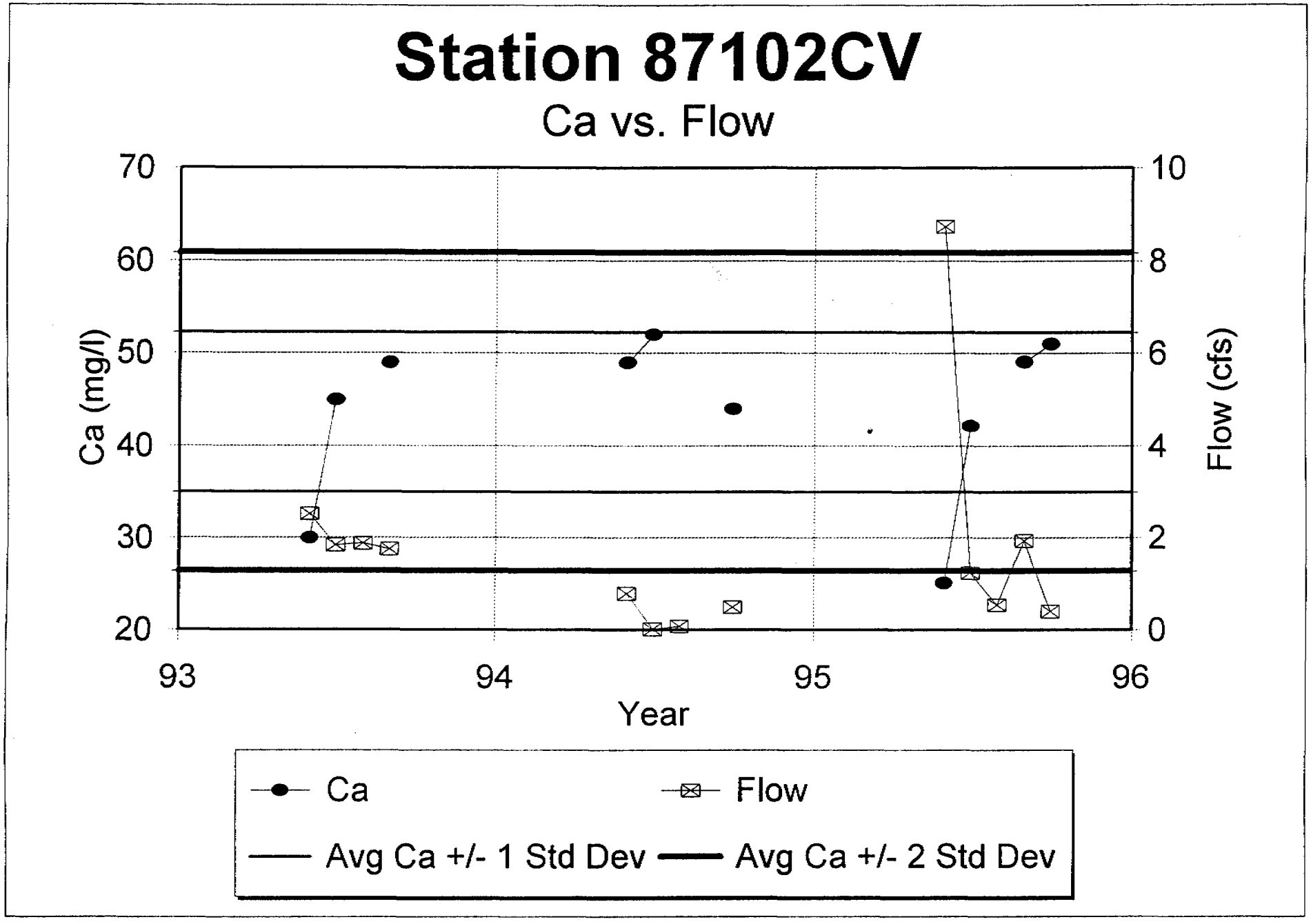
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

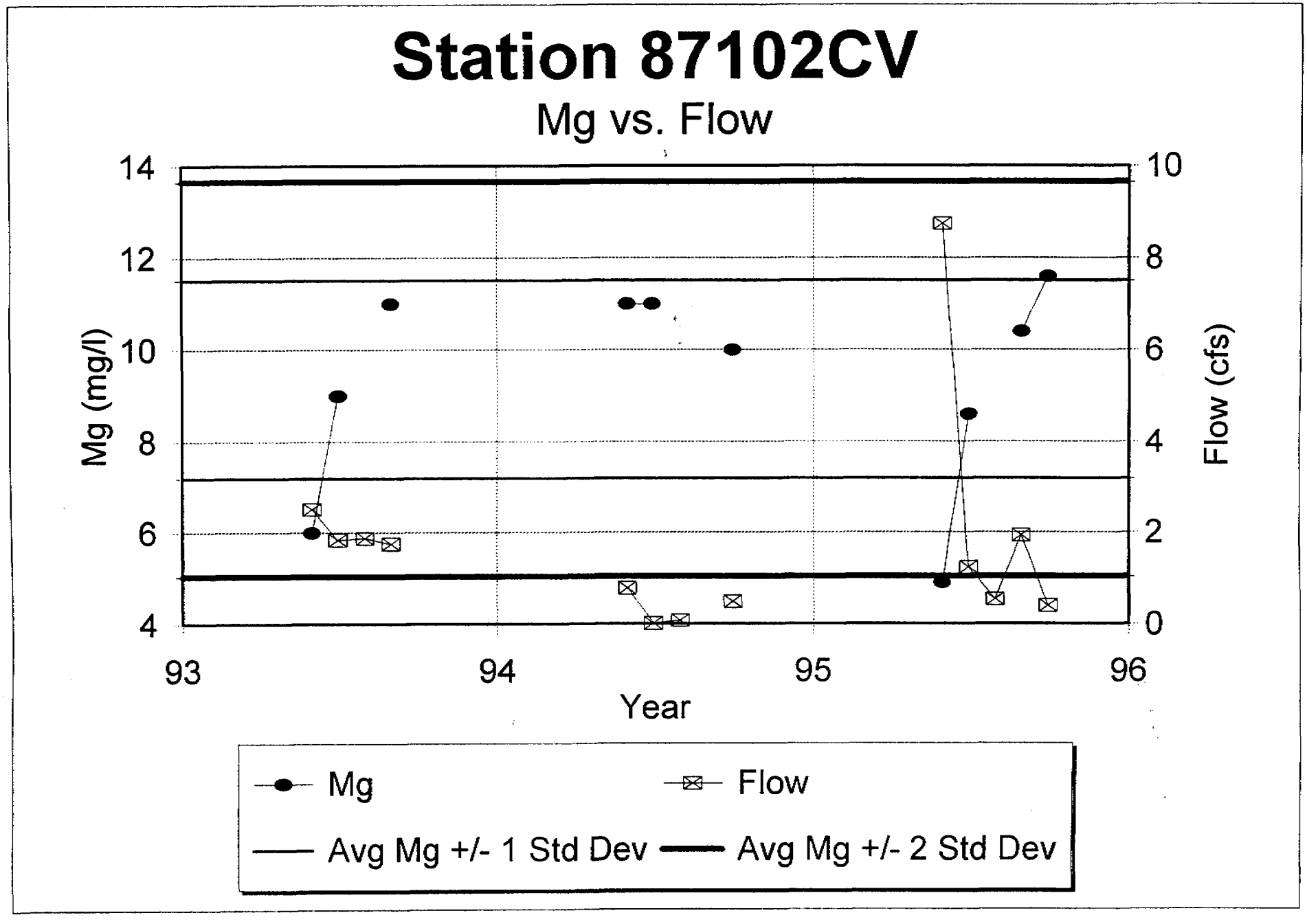

Station 87102CV
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Flow (cfs)
10
8
6
4
2
0
Jan-88
Jun-89
Nov-90
Apr-92
Sep-93
Feb-95
Year
Monthly Precipitation
Flow

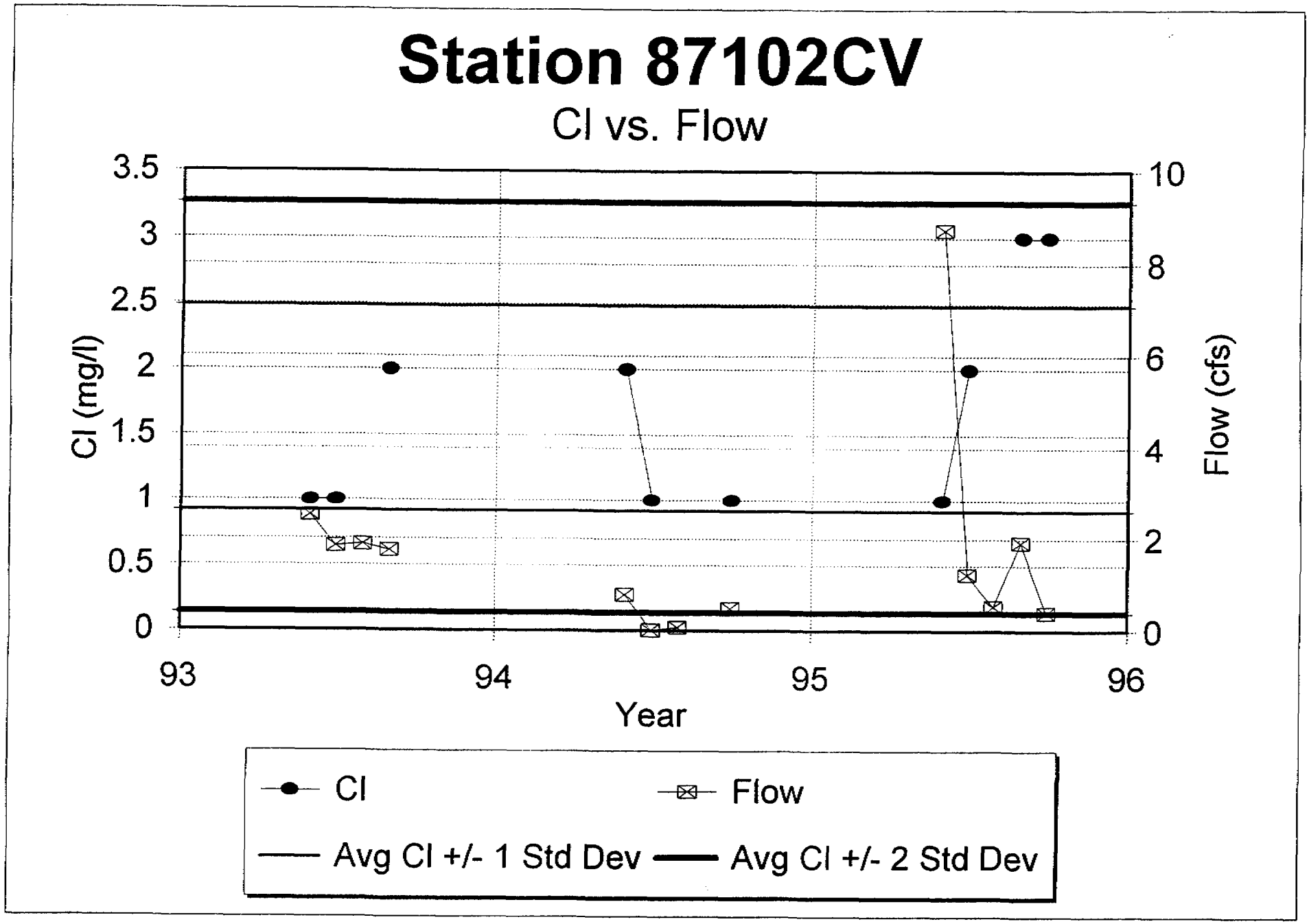

Station 87102CV
pH vs. Flow
9.5
9
8.5
8
7.5
7
6.5
pH (units)
10
8
6
4
2
0
Flow (cfs)
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

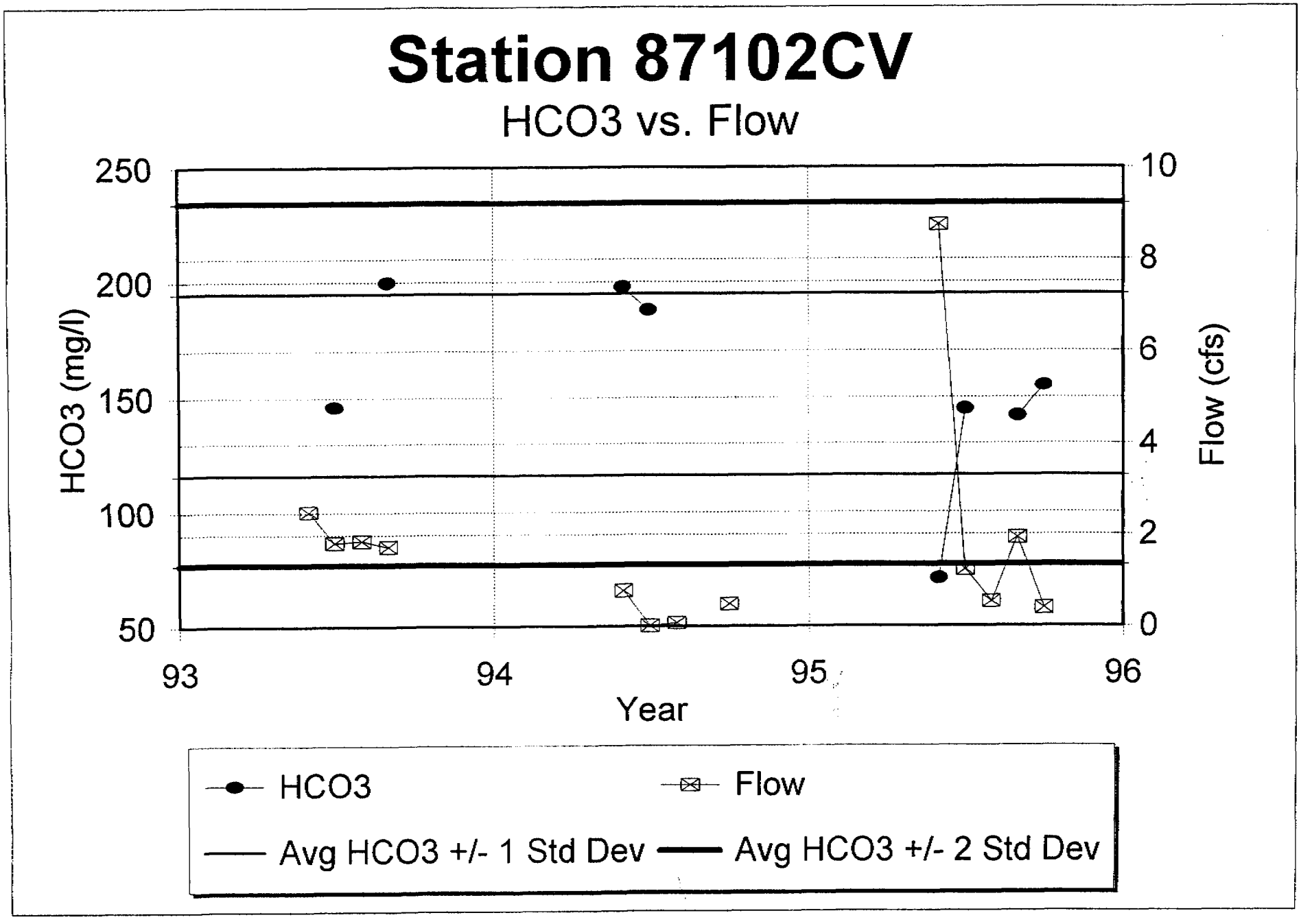

Station 87102CV
TDS vs. Flow
TDS (mg/l)
200
180
160
140
120
100
80
Flow (cfs)
10
8
6
4
2
0
88
89
90
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev

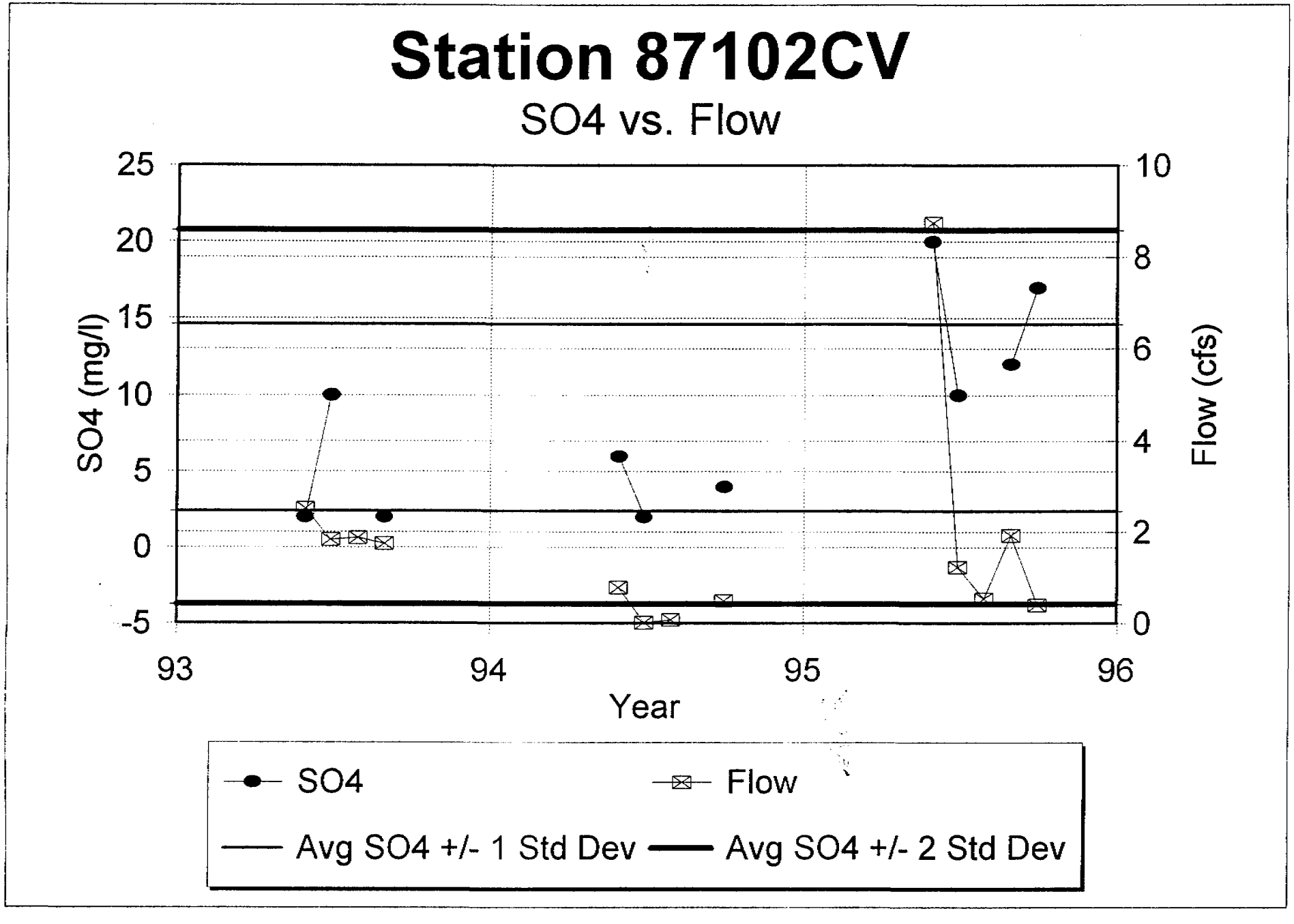

Station 87102CV
Oil & Grease vs. Flow
O&G (mg/l)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
Flow (cfs)
10
8
6
4
2
0
93
94
95
96
Year
O&G
Flow
Avg O&G +/- 1 Std Dev
Avg O&G +/- 2 Std Dev


Station 87102CV
Ca vs. Flow
70
60
50
40
30
20
Ca (mg/l)
10
8
6
4
2
0
Flow (cfs)
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 87102CV
Mg vs. Flow
14
12
10
8
6
4
Mg (mg/l)
10
8
6
4
2
0
Flow (cfs)
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 87102CV
Cl vs. Flow
Cl (mg/l)
3.5
3
2.5
2
1.5
1
0.5
0
Flow (cfs)
10
8
6
4
2
0
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 87102CV
HCO3 vs. Flow
250
200
150
100
50
HCO3 (mg/l)
10
8
6
4
2
0
Flow (cfs)
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 87102CV
SO4 vs. Flow
SO4 (mg/l)
Flow (cfs)
Year
25
20
15
10
5
0
-5
10
8
6
4
2
0
93
94
95
96
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Station: 87103CV | Property: Star Point | Location: 275' S 1000' E of NW corn. Sec 10, T15S, R7E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Print Date: April 26, 1996 | Elevation: 8370

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-88																						
Feb-88																						
Mar-88																						
Apr-88																						
May-88																						
Jun-88																						
Jul-88																						
Aug-88																						
Sep-88																						
Oct-88																						
Nov-88																						
Dec-88																						
Jan-89																						
Feb-89																						
Mar-89																						
Apr-89																						
May-89																						
Jun-89																						
Jul-89																						
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Nov-89																						
Dec-89																						
Jan-90																						
Feb-90																						
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May-92																						
Jun-92																						
Jul-92																						
Aug-92																						
Sep-92																						
Oct-92																						
Nov-92																						
Dec-92																						
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/21/93	2.57	7.3	65	12.9	100	2		105		0	2	2	32	6 <	1	2		0.08	0.25	0.01	
Jul-93	07/26/93	1.838	7.7	260	11.7	140 <	2		133	149	7	2	12	40	8 <	1	2		0.05	0.37	0.02	
Aug-93	08/17/93	1.88	6.9	304	6.6																	
Sep-93	09/13/93	1.75	7.6	292	4.9	146	10		170	193	0	2	6	50	11 <	1	2		0.03	0.3		
Oct-93																						
Nov-93																						
Dec-93																						

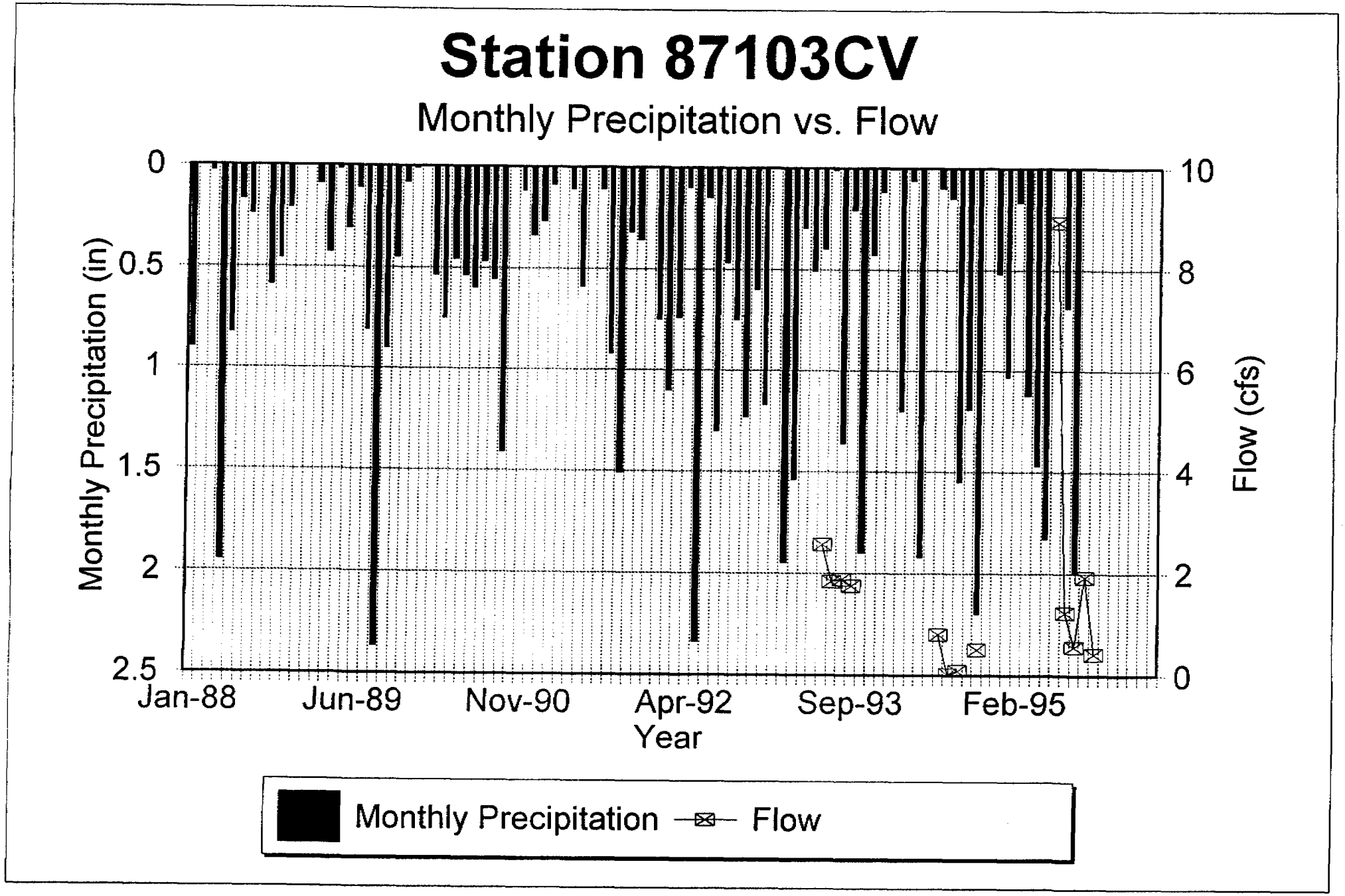
Print Date: April 26, 1996

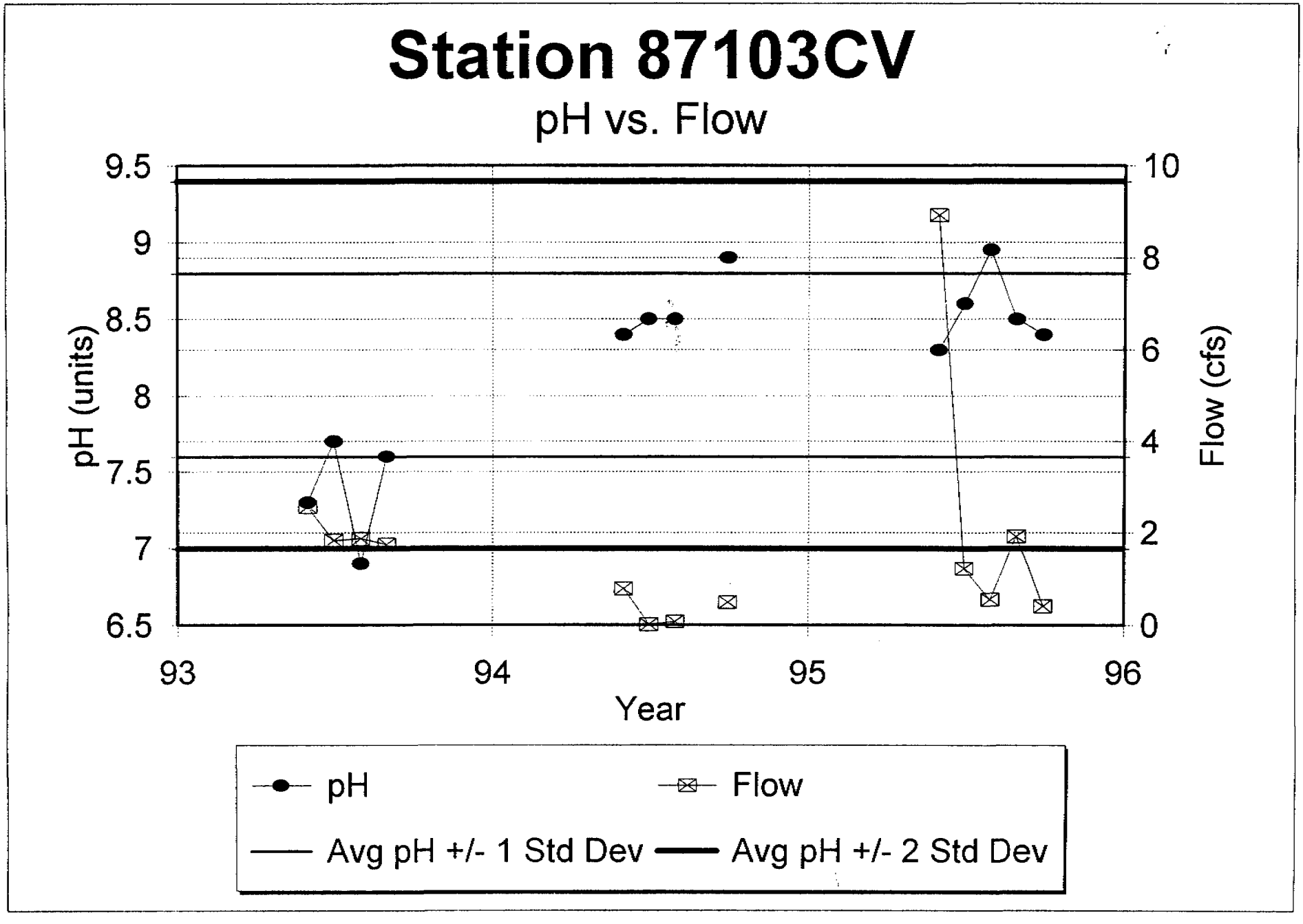
Cyprus Plateau Mining Company - Water Quality Data

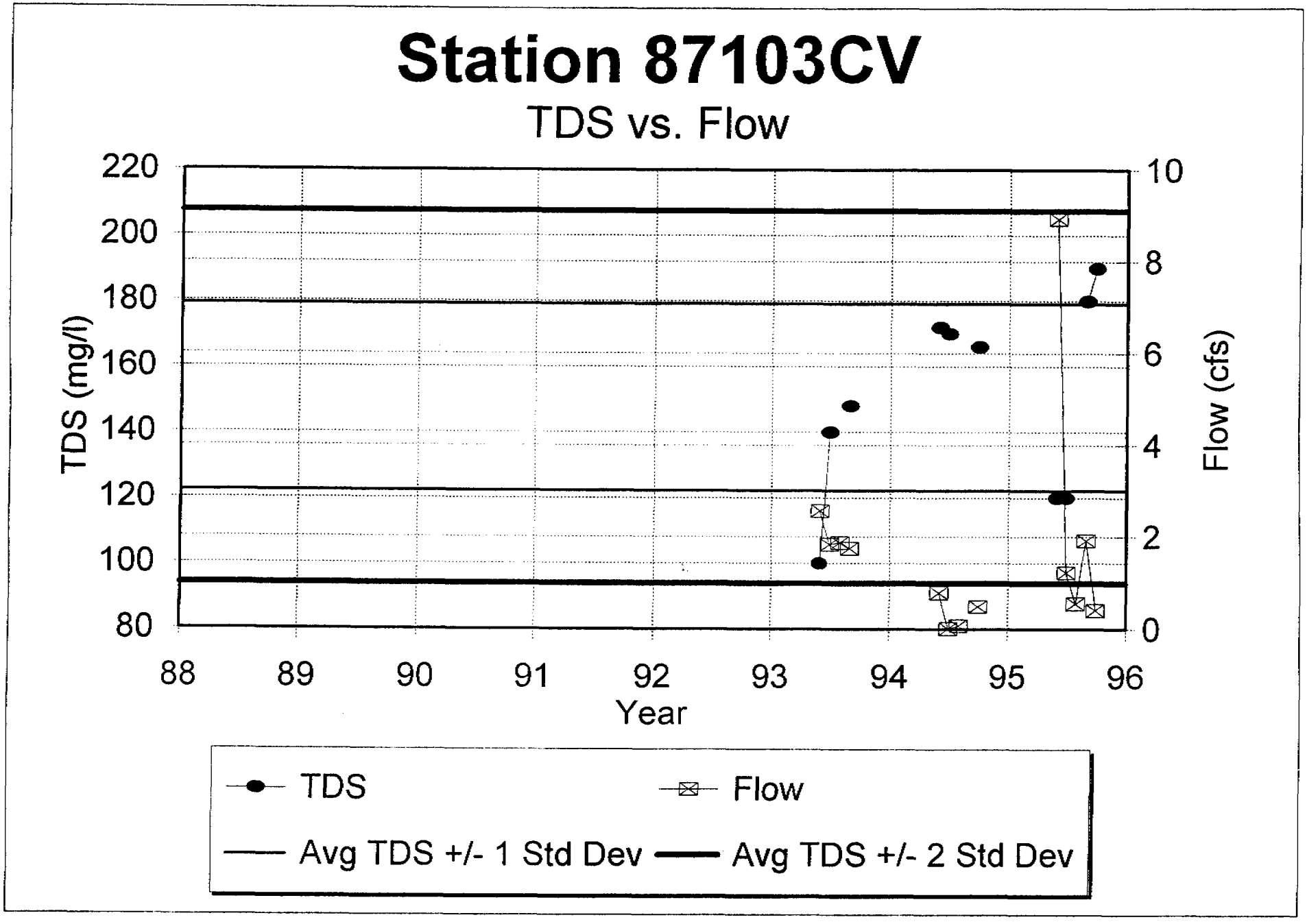
Station: 87103CV | Property: Star Point | Location: 275' S 1000' E of NW corn. Sec 10, T15S, R7E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 8370

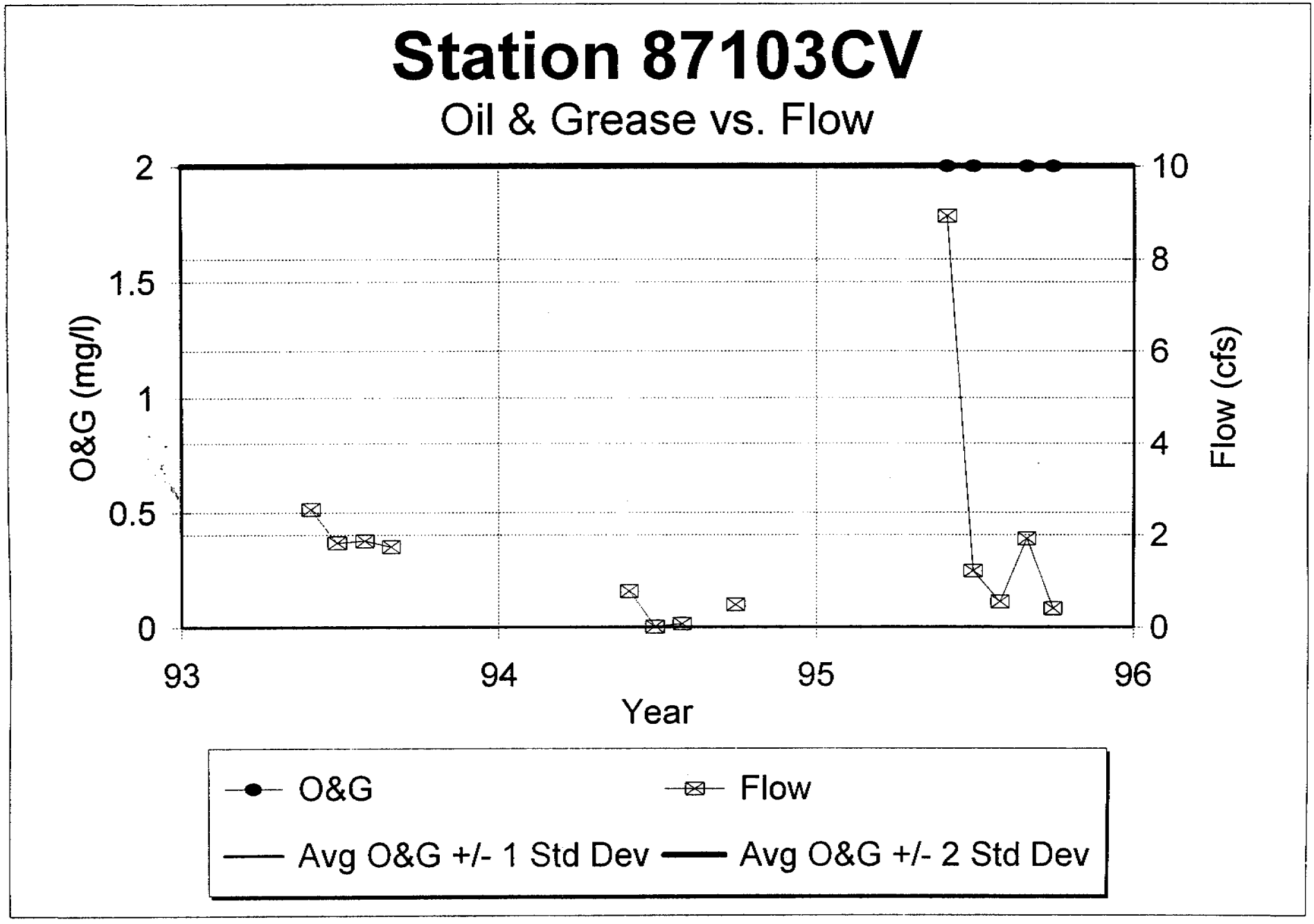
Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/28/94	0.794	8.4	345	9.9	172	2		168	198	0	2	4	49	11 <	1	3		0.05	0.18		
Jul-94	07/20/94	0.02	8.5	310	14	170	4		154	190	7	1	2	45	10 <	1	4		0.09	0.38	0.03	
Aug-94	08/31/94	0.088	8.5	257	9.1																	
Sep-94																						
Oct-94	10/25/94	0.5	8.9	351	2	166 <	14		139		0	2	4	41	9 <	1	2		0.04	0.19		
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/21/95	8.93	8.3	161	53.9	120	6 <	2	87	71 <	2 <	1	40	25.8	5.4	0.7	1.9	-10.8	0.12	0.79	0.023	
Jul-95	07/26/95	1.233	8.6	256	16	120	8 <	2	142	123 <	2	2	10	42.2	8.8	0.6	2.2	3.5	0.09	0.31	0.023	
Aug-95	08/28/95	0.555	8.95	299	11																	
Sep-95	09/27/95	1.93	8.5	362	4	180 <	5 <	2	171	145 <	2	3	10	50	11.3	1.1	2.3	4.9	0.19	0.22	0.011	
Oct-95	10/19/95	0.42	8.4	303	3.89	190	8 <	2	178	158 <	2	2	17	51	12.3	0.8	2.6	1.2	0.05	0.14	0.008	
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
Count		13	13	13	13	10	10	4	10	8	10	10	10	10	10	10	10	4	10	10	7	
Minimum		0.02	6.9	65	2	100 <	2 <	2	87	71 <	0 <	1	2	25.8	5.4 <	0.6	1.9	-10.8	0.03	0.14	0.008	
Maximum		8.93	8.95	362	53.9	190 <	14 <	2	178	198 <	7 <	3	40	51	12.3 <	1.1	4	4.9	0.19	0.79	0.03	
Average		1.7314	8.1962	274.23	12.315	150.6 <	6.1 <	2	144.7	153.38 <	2.2 <	1.9	10.7	42.6	9.28 <	0.92	2.4	-0.3	0.079	0.313	0.0179	
Standard Deviation		2.2183	0.6001	78.426	12.698	28.356 <	3.7537 <	0	28.552	39.878 <	2.5612 <	0.5385	10.789	7.9428	2.1771 <	0.1536	0.6245	6.2044	0.0455	0.1763	0.0077	
Avg. -1 Std. Dev.		-0.487	7.596	195.8	-0.384	122.24 <	2.3463 <	2	116.15	113.5 <	-0.361 <	1.3615	-0.089	34.657	7.1029 <	0.7664	1.7755	-6.504	0.0335	0.1367	0.0102	
Avg. +1 Std. Dev.		3.9497	8.7963	352.66	25.013	178.96 <	9.8537 <	2	173.25	193.25 <	4.7612 <	2.4385	21.489	50.543	11.457 <	1.0736	3.0245	5.9044	0.1245	0.4893	0.0255	
Avg. -2 Std. Dev.		-2.705	6.9959	117.38	-13.08	93.889 <	-1.407 <	2	87.596	73.62 <	-2.922 <	0.823	-10.88	26.714	4.9259 <	0.6128	1.151	-12.71	-0.012	-0.04	0.0025	
Avg. +2 Std. Dev.		6.1681	9.3964	431.08	37.712	207.31 <	13.607 <	2	201.8	233.13 <	7.3225 <	2.977	32.279	58.486	13.634 <	1.2272	3.649	12.109	0.17	0.6656	0.0332	

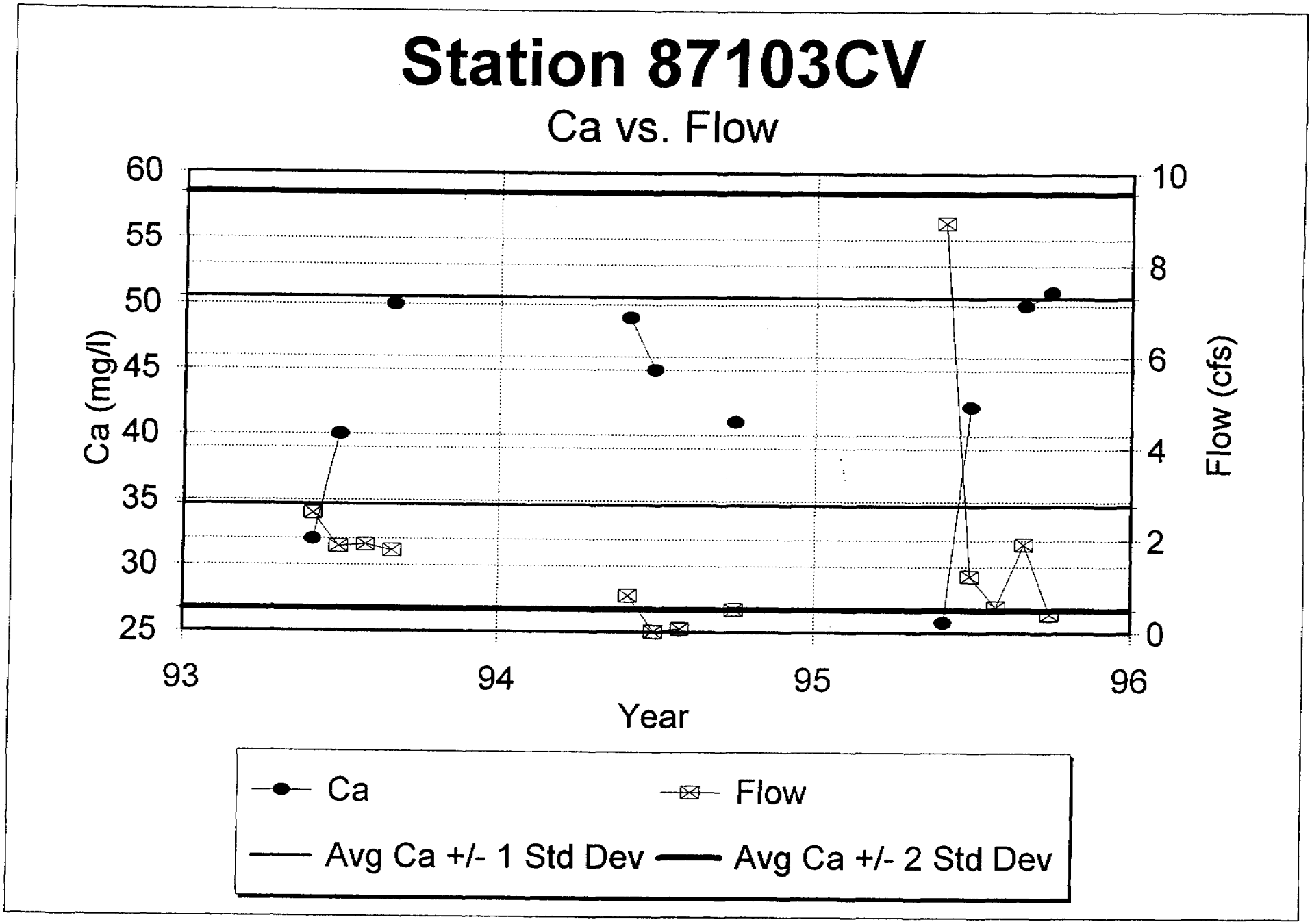
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

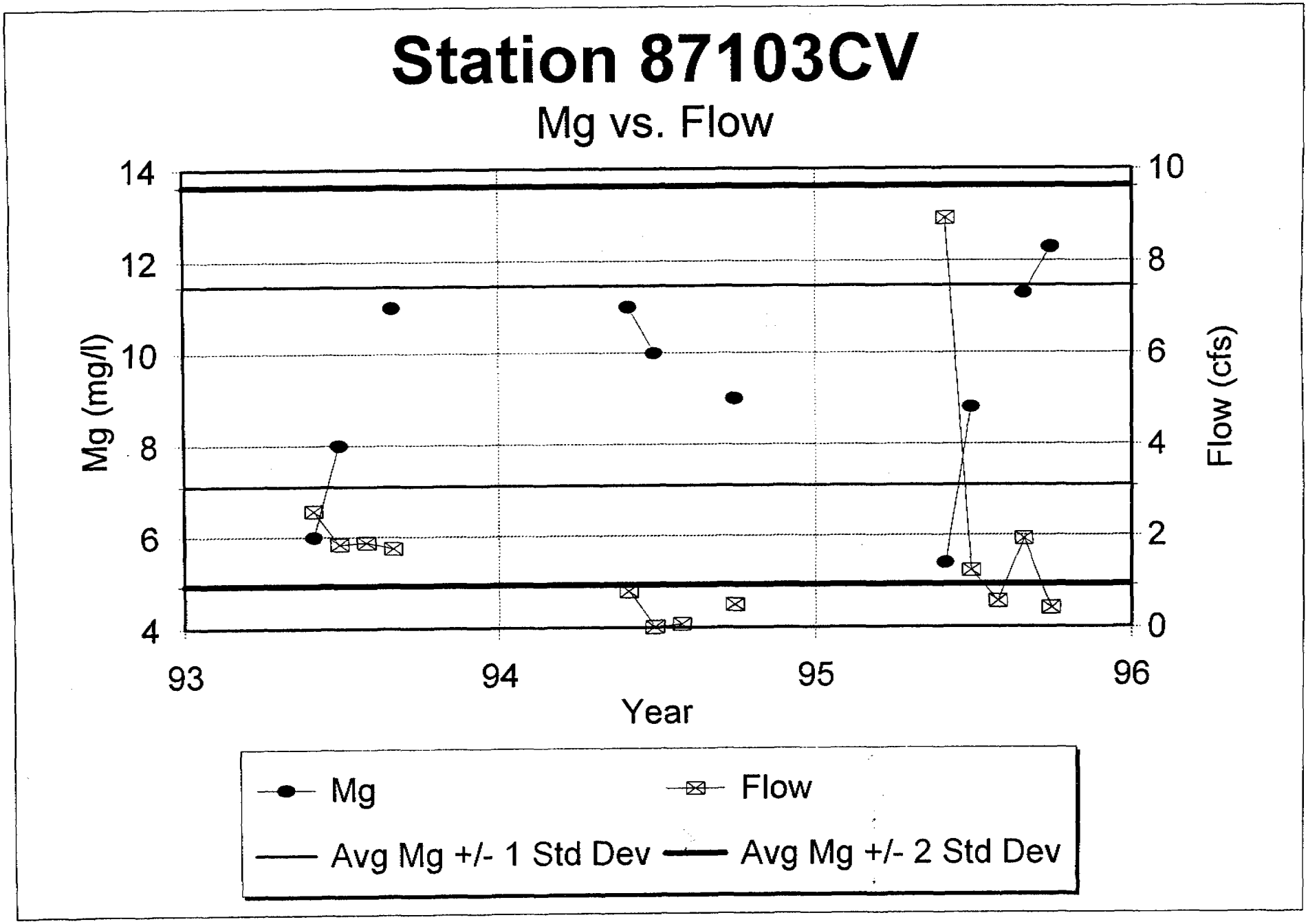

Station 87103CV
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Flow (cfs)
10
8
6
4
2
0
Jan-88
Jun-89
Nov-90
Apr-92
Sep-93
Feb-95
Year
Monthly Precipitation
Flow

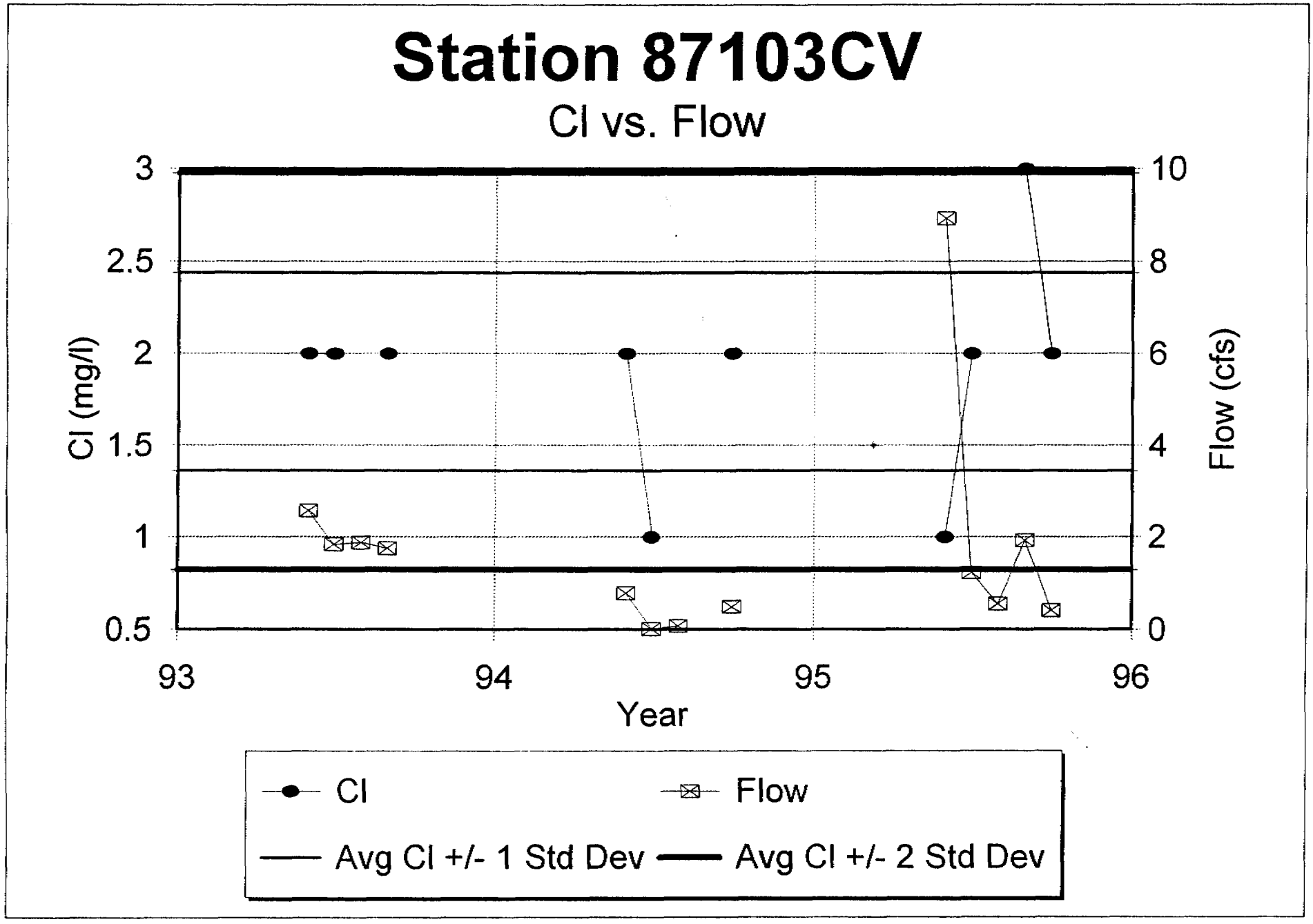

Station 87103CV
pH vs. Flow
9.5
9
8.5
8
7.5
7
6.5
pH (units)
10
8
6
4
2
0
Flow (cfs)
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

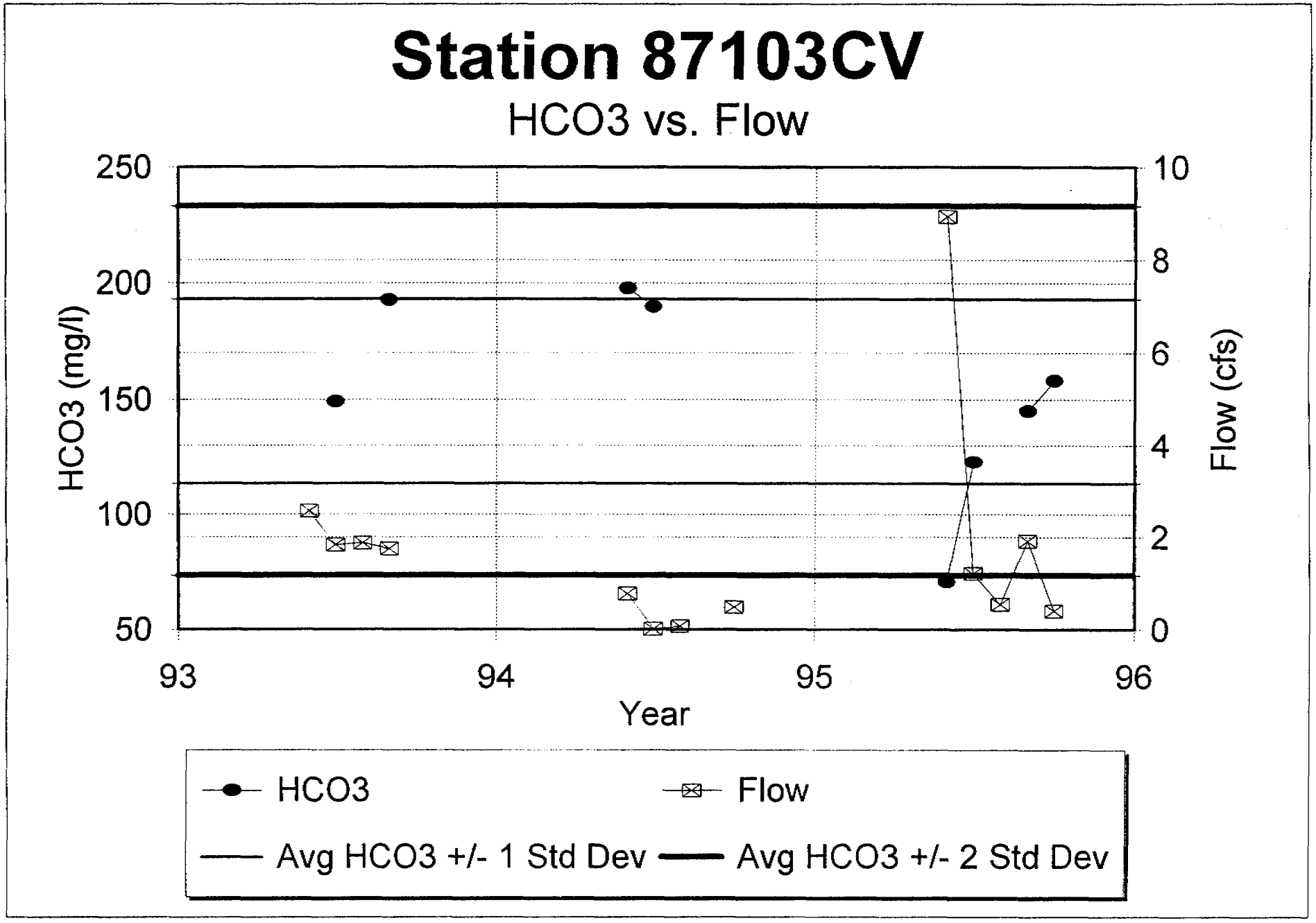

Station 87103CV
TDS vs. Flow
TDS (mg/l)
220
200
180
160
140
120
100
80
Flow (cfs)
10
8
6
4
2
0
88
89
90
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev

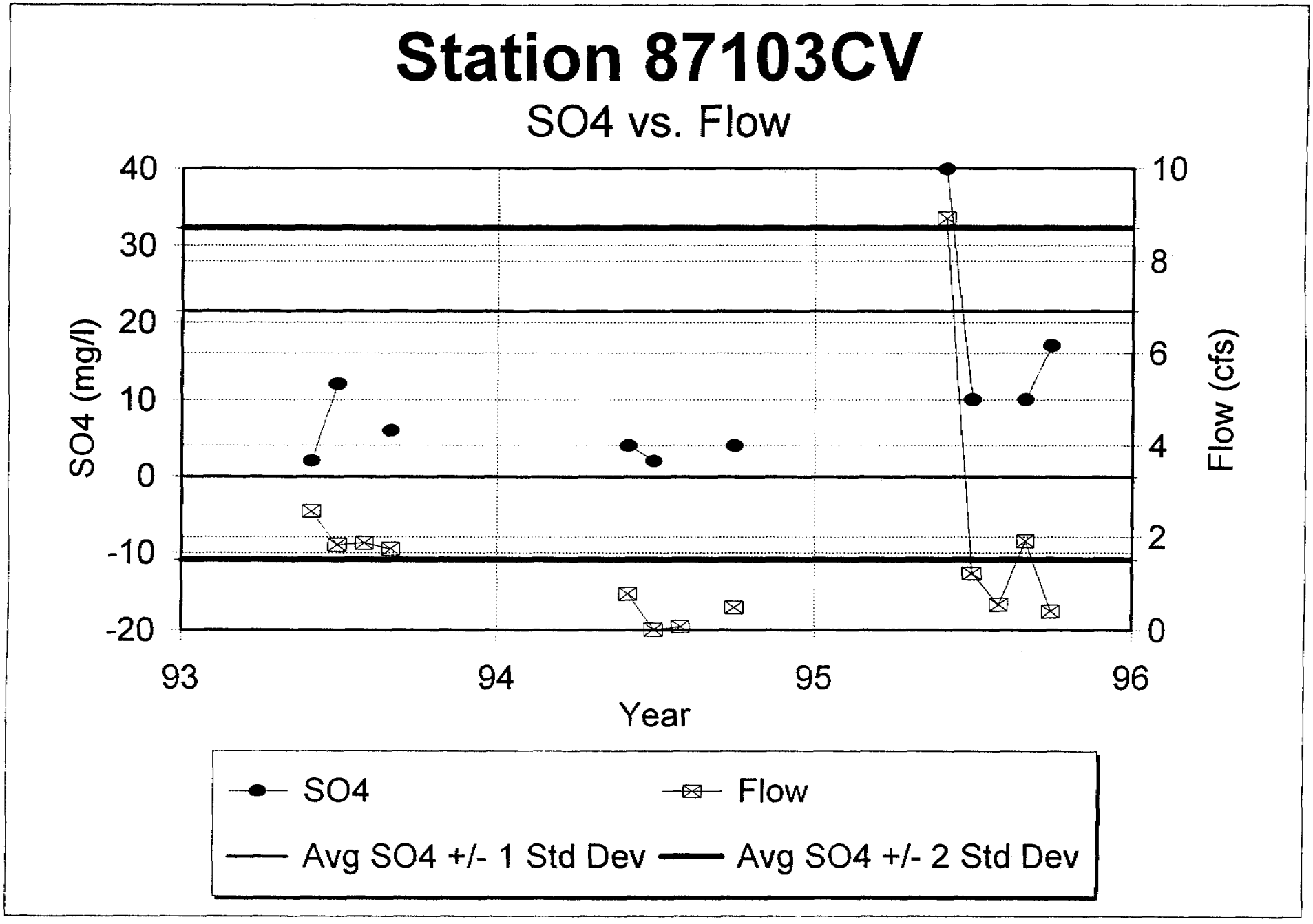

Station 87103CV
Oil & Grease vs. Flow
O&G (mg/l)
Flow (cfs)
Year
2
1.5
1
0.5
0
10
8
6
4
2
0
93
94
95
96
O&G
Flow
Avg O&G +/- 1 Std Dev
Avg O&G +/- 2 Std Dev


Station 87103CV
Ca vs. Flow
Ca (mg/l)
60
55
50
45
40
35
30
25
Flow (cfs)
10
8
6
4
2
0
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 87103CV
Mg vs. Flow
Mg (mg/l)
14
12
10
8
6
4
Flow (cfs)
10
8
6
4
2
0
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 87103CV
Cl vs. Flow
Cl (mg/l)
3
2.5
2
1.5
1
0.5
Flow (cfs)
10
8
6
4
2
0
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 87103CV
HCO3 vs. Flow
250
200
150
100
50
HCO3 (mg/l)
10
8
6
4
2
0
Flow (cfs)
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 87103CV
SO4 vs. Flow
SO4 (mg/l)
Flow (cfs)
Year
40
30
20
10
0
-10
-20
10
8
6
4
2
0
93
94
95
96
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

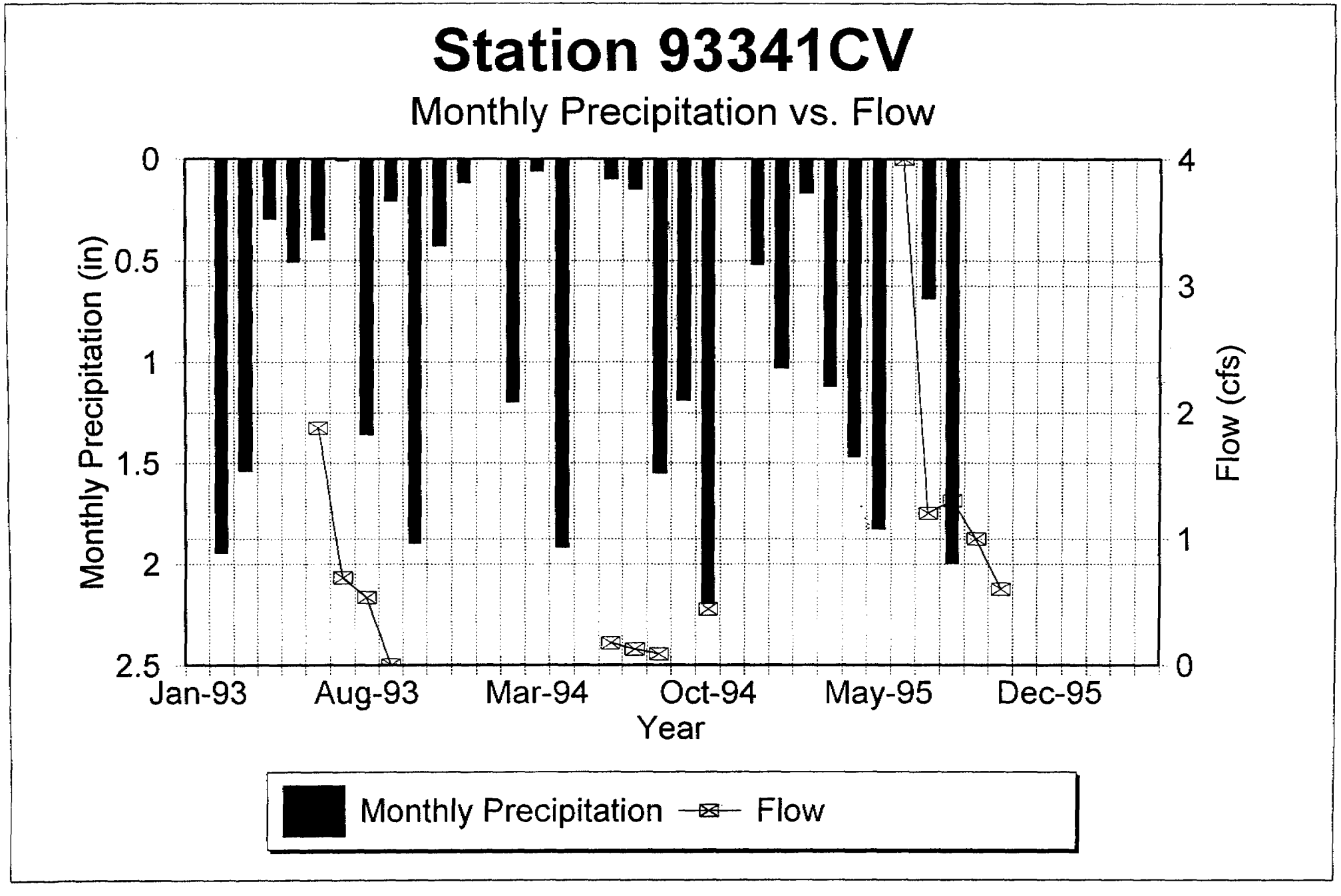
Cyprus Plateau Mining Company - Water Quality Data

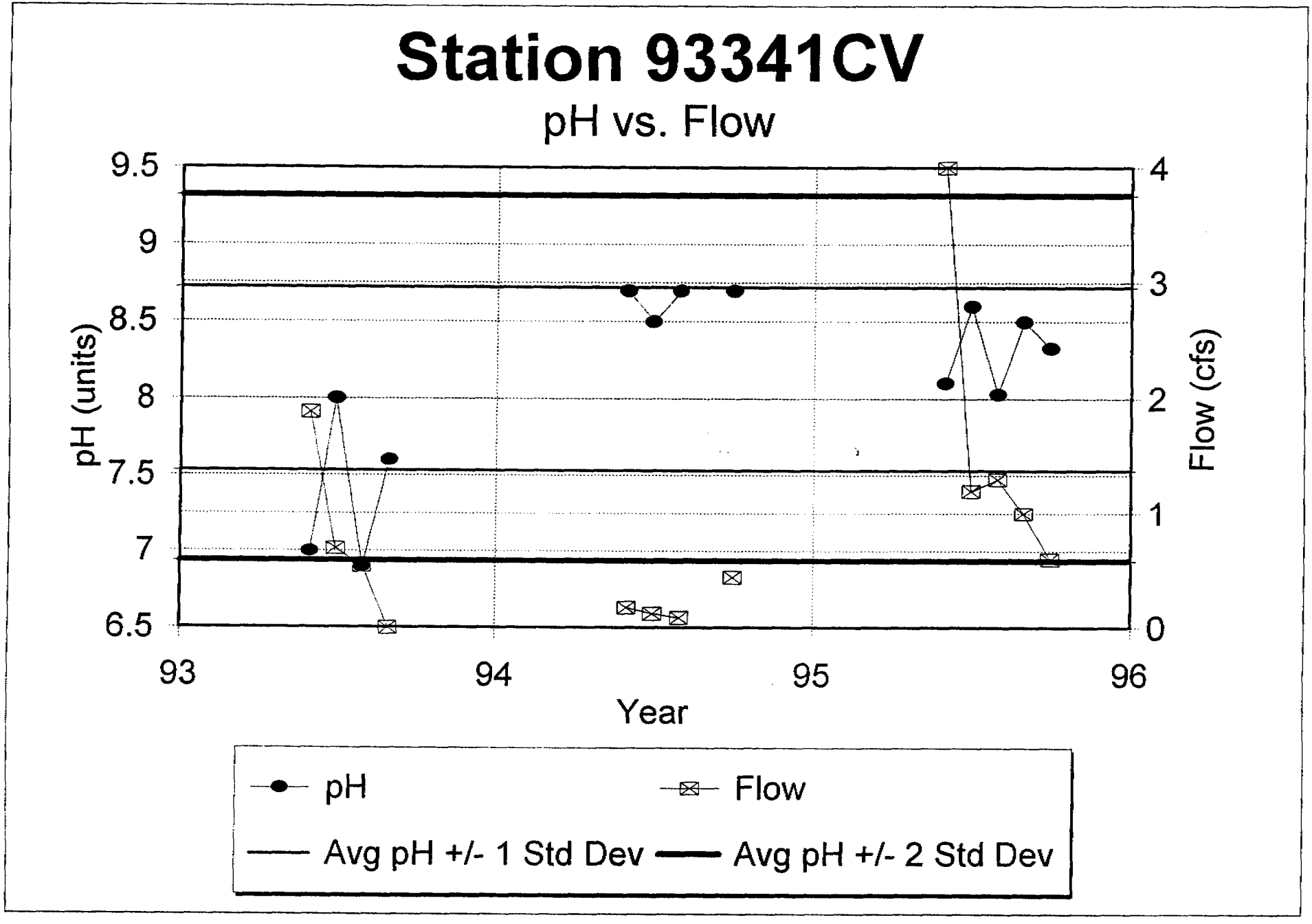
Print Date: April 26, 1996

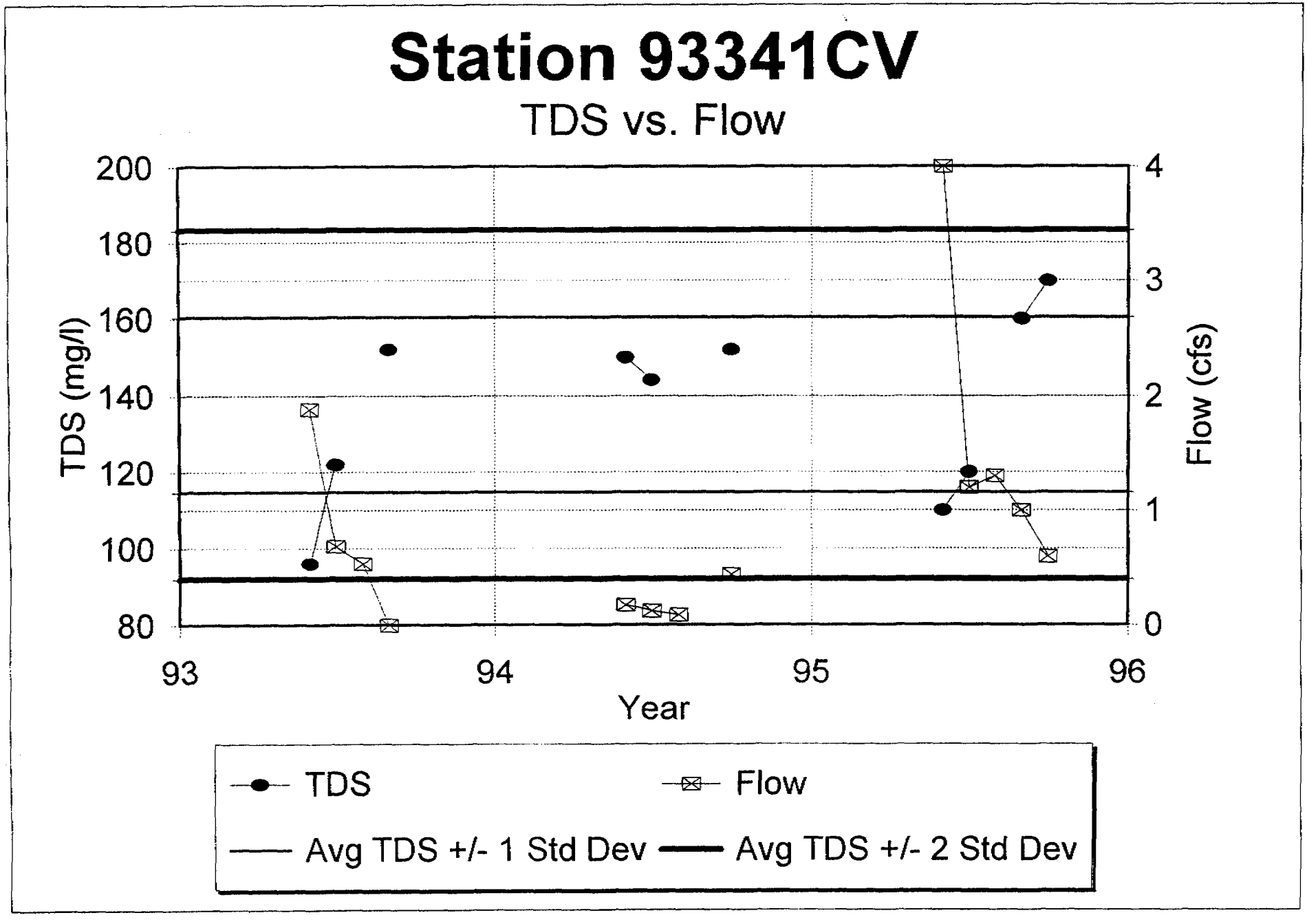
Station: 9334ICV | Property: Star Point | Location: 1000' S 2000' E of NW corn. Sec 34, T14S, R7E | Station Type: Stream | Sampling Frequency: Quarterly | Formation: | Elevation: 8960

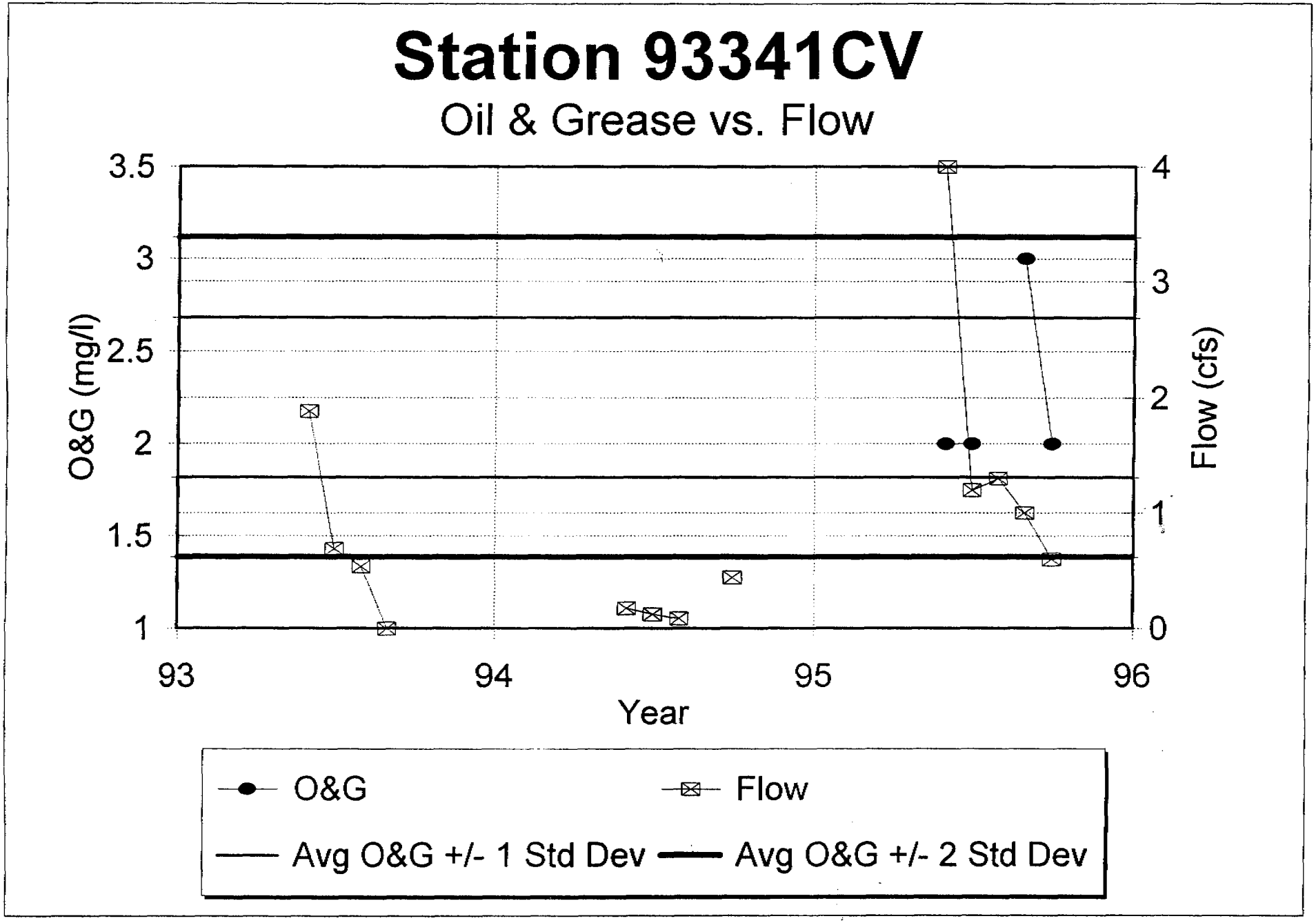
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-93																						
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93	06/21/93	1.882	7	60	10.5	96	8		83		0	1	12	25	5 <	1	2		0.12	0.37	0.02	
Jul-93	07/26/93	0.691	8	220	13	122	8		123	127	7	1	6	36	8 <	1	2		0.09	0.4	0.02	
Aug-93	08/17/93	0.535	6.9	266	5.9																	
Sep-93	09/13/93	0	7.6	275	6.4	152 <	2		151	173	0	2	9	44	10 <	1	2		0.08	0.39		
Oct-93																						
Nov-93																						
Dec-93																						
Jan-94																						
Feb-94																						
Mar-94																						
Apr-94																						
May-94																						
Jun-94	06/28/94	0.175	8.7	296	12	150	10		139	166	0	2	4	41	9 <	1	2		0.16	0.52		
Jul-94	07/20/94	0.125	8.5	257	13.3	144 <	2		146	161	5	1	4	42	10 <	1	2		0.14	0.44	0.01	
Aug-94	08/31/94	0.088	8.7	228	9.2																	
Sep-94														38	9 <	1	2					
Oct-94	10/25/94	0.44	8.7	296	3	152 <	5		132		0	2	4						0.08	0.46		
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95																						
Mar-95																						
Apr-95																						
May-95																						
Jun-95	06/21/95	4	8.1	127	11.44	110 <	5 <	2	68	56 <	2 <	1	20	20.5	4.1	0.7	1.6	-3.5	0.14	0.79	0.021	
Jul-95	07/26/95	1.2	8.6	208	17	120	10 <	2	123	107 <	2	1	10	36.7	7.7	0.5	2	3.6	0.15	0.51	0.024	
Aug-95	08/23/95	1.3	8.03	220	10																	
Sep-95	09/27/95	1	8.5	341	3	160 <	5	3	145	122 <	2	5	7	42.4	9.5	1	2.2	4.7	0.12	0.41	0.015	
Oct-95	10/19/95	0.6	8.33	300	4.44	170 <	5 <	2	154	137 <	2	2	20	44.5	10.5	1	2.5	-0.2	0.09	0.09	0.005	
Nov-95																						
Dec-95																						
Jan-96																						
END DATA																						
Count		13	13	13	13	10	10	4	10	8	10	10	10	10	10	10	10	4	10	10	7	
Minimum		0	6.9	60	3	96 <	2 <	2	68	56 <	0 <	1	4	20.5	4.1 <	0.5	1.6	-3.5	0.08	0.09	0.005	
Maximum		4	8.7	341	17	170 <	10 <	3	154	173 <	7 <	5	20	44.5	10.5 <	1	2.5	4.7	0.16	0.79	0.024	
Average		0.9258	8.1277	238	9.1677	137.6 <	6 <	2.25	126.4	131.13 <	2 <	1.8	9.6	37.01	8.28 <	0.92	2.03	1.15	0.117	0.438	0.0164	
Standard Deviation		1.034	0.5954	73.037	4.1652	22.818 <	2.7568 <	0.433	27.576	35.747 <	2.2361 <	1.1662	5.8	7.7055	2.0498 <	0.1661	0.21	3.2423	0.0287	0.1633	0.0063	
Avg. -1 Std. Dev.		-0.108	7.5323	164.96	5.0025	114.78 <	3.2432 <	1.817	98.824	95.378 <	-0.236 <	0.6338	3.8	29.304	6.2302 <	0.7539	1.82	-2.092	0.0883	0.2747	0.0101	
Avg. +1 Std. Dev.		1.9599	8.723	311.04	13.333	160.42 <	8.7568 <	2.683	153.98	166.87 <	4.2361 <	2.9662	15.4	44.716	10.33 <	1.0861	2.24	4.3923	0.1457	0.6013	0.0227	
Avg. -2 Std. Dev.		-1.142	6.937	91.925	0.8374	91.965 <	0.4864 <	1.384	71.248	59.631 <	-2.472 <	-0.532	-2	21.599	4.1804 <	0.5877	1.61	-5.335	0.0597	0.1115	0.0038	
Avg. +2 Std. Dev.		2.9939	9.3184	384.07	17.498	183.24 <	11.514 <	3.116	181.55	202.62 <	6.4721 <	4.1324	21.2	52.421	12.38 <	1.2523	2.45	7.6346	0.1743	0.7645	0.029	

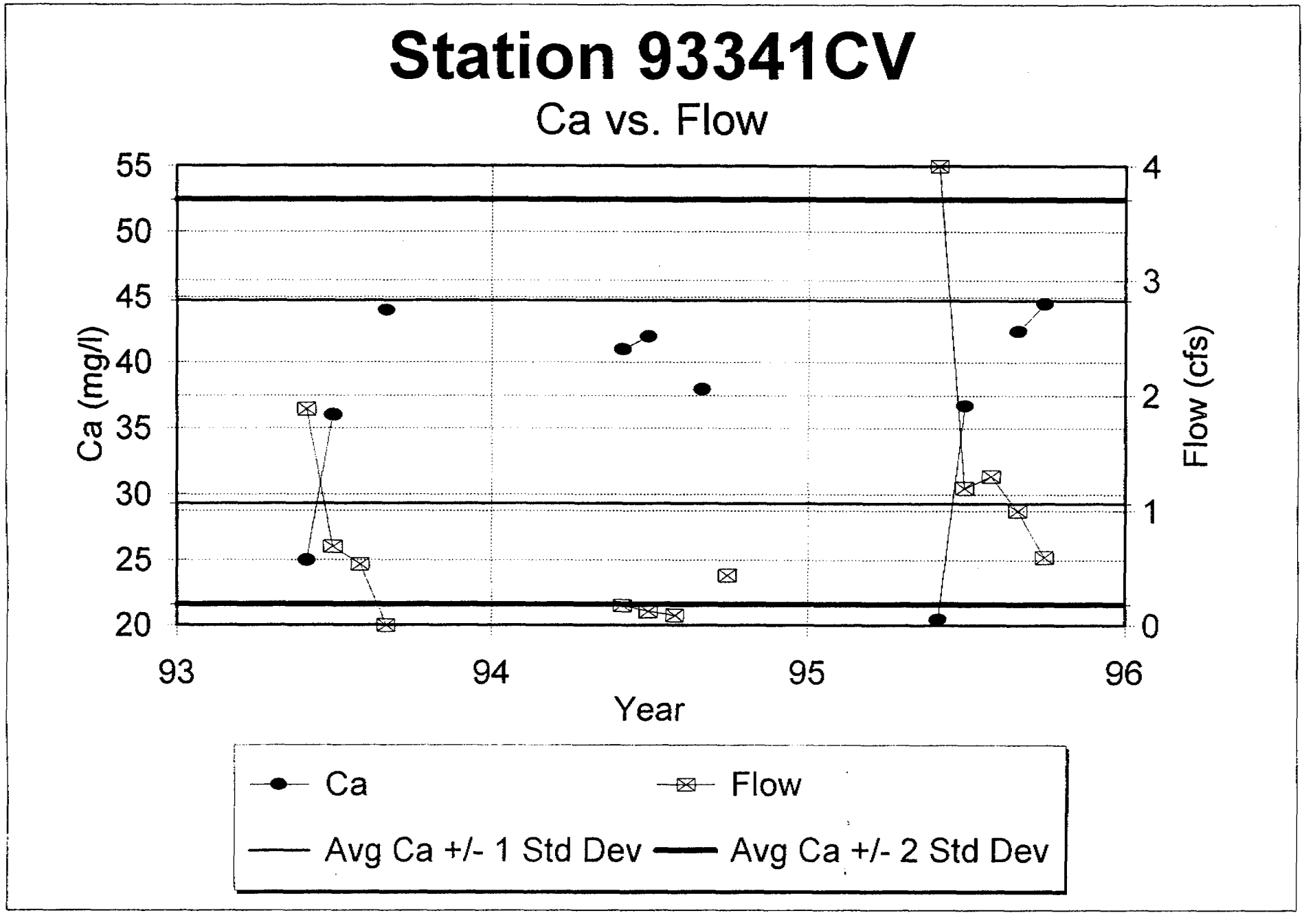
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

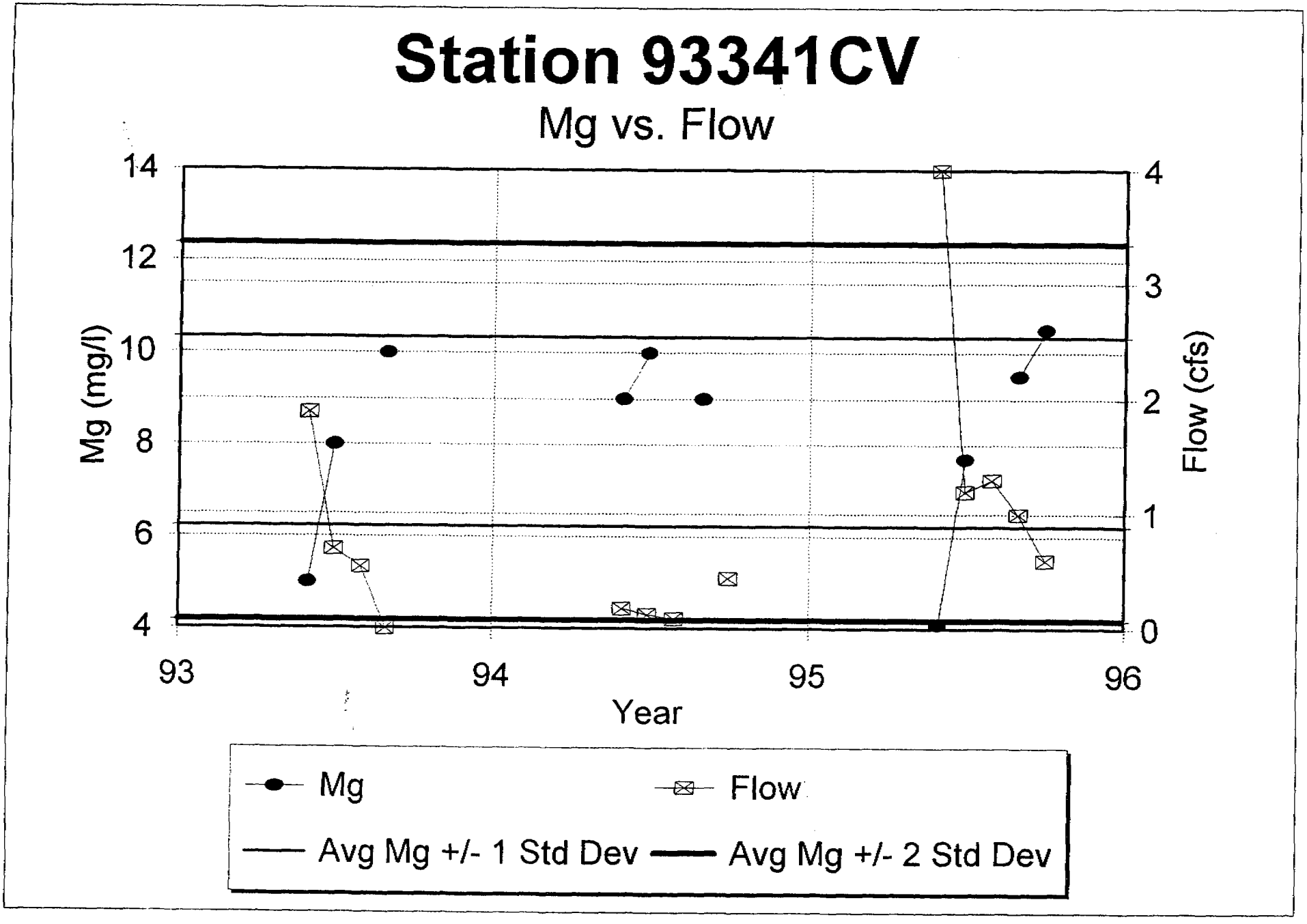

Station 93341CV
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Flow (cfs)
4
3
2
1
0
Jan-93
Aug-93
Mar-94
Oct-94
May-95
Dec-95
Year
Monthly Precipitation
Flow

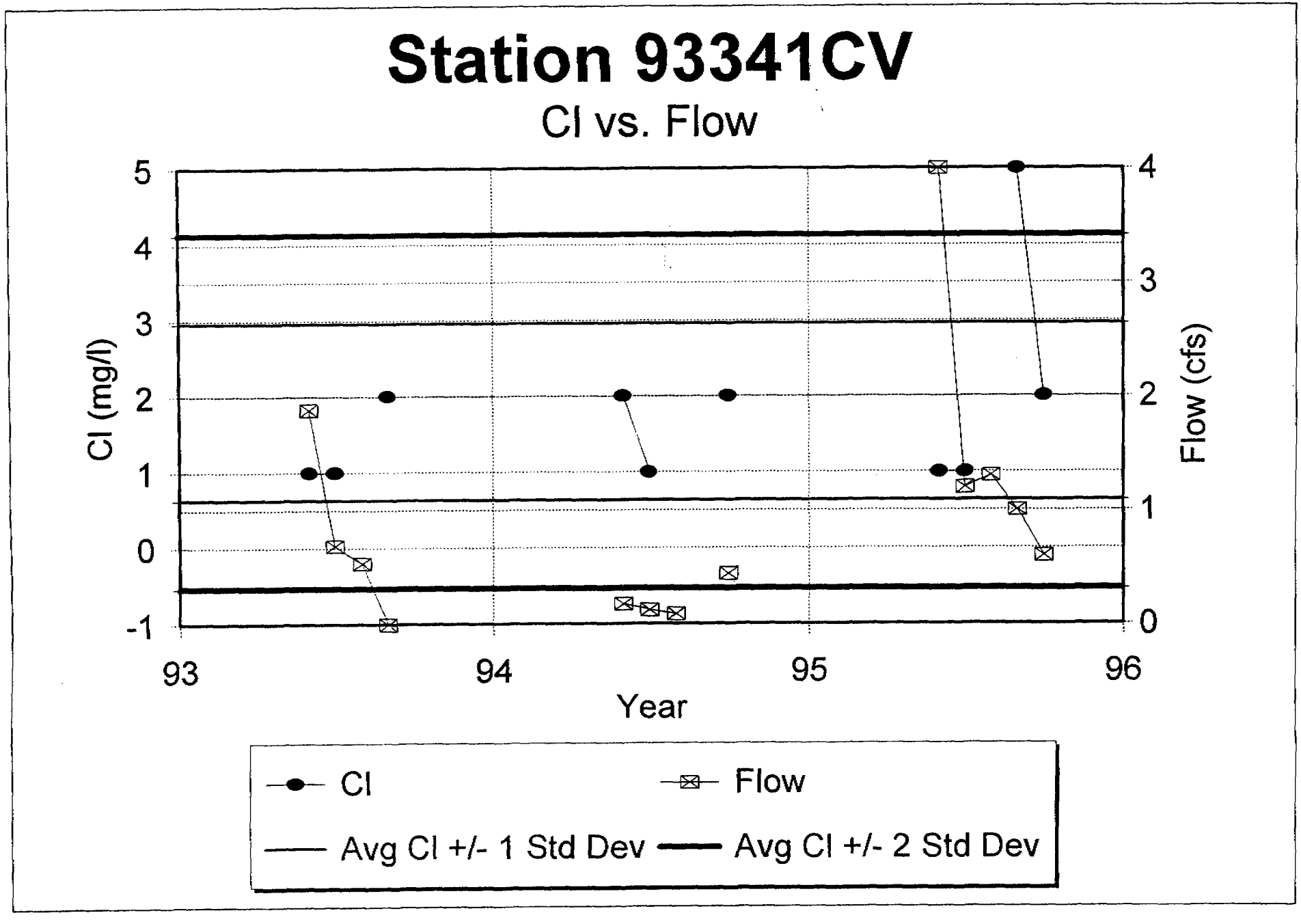

Station 93341CV
pH vs. Flow
9.5
9
8.5
8
7.5
7
6.5
pH (units)
4
3
2
1
0
Flow (cfs)
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

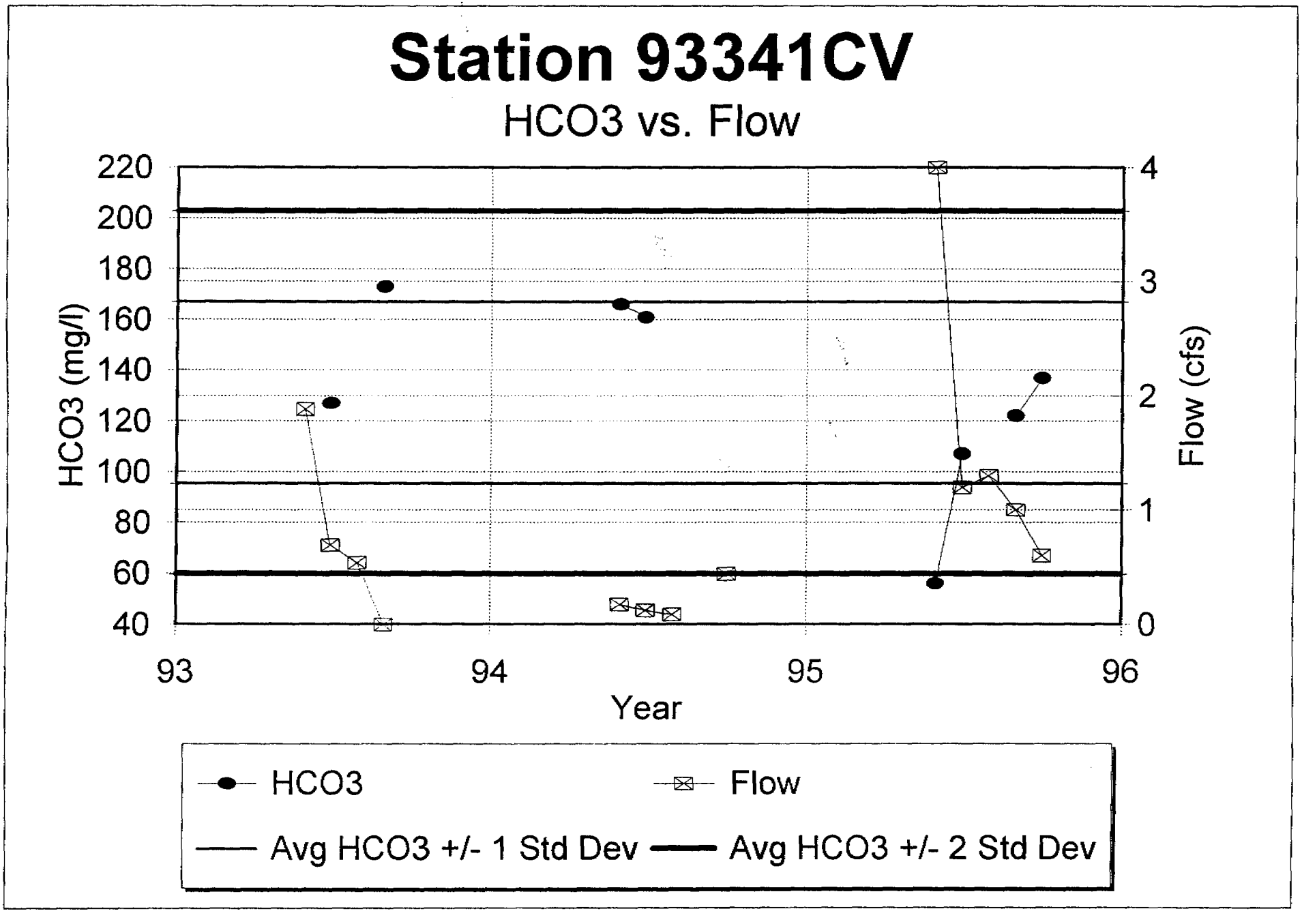

Station 93341CV
TDS vs. Flow
200
180
160
140
120
100
80
TDS (mg/l)
4
3
2
1
0
Flow (cfs)
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev

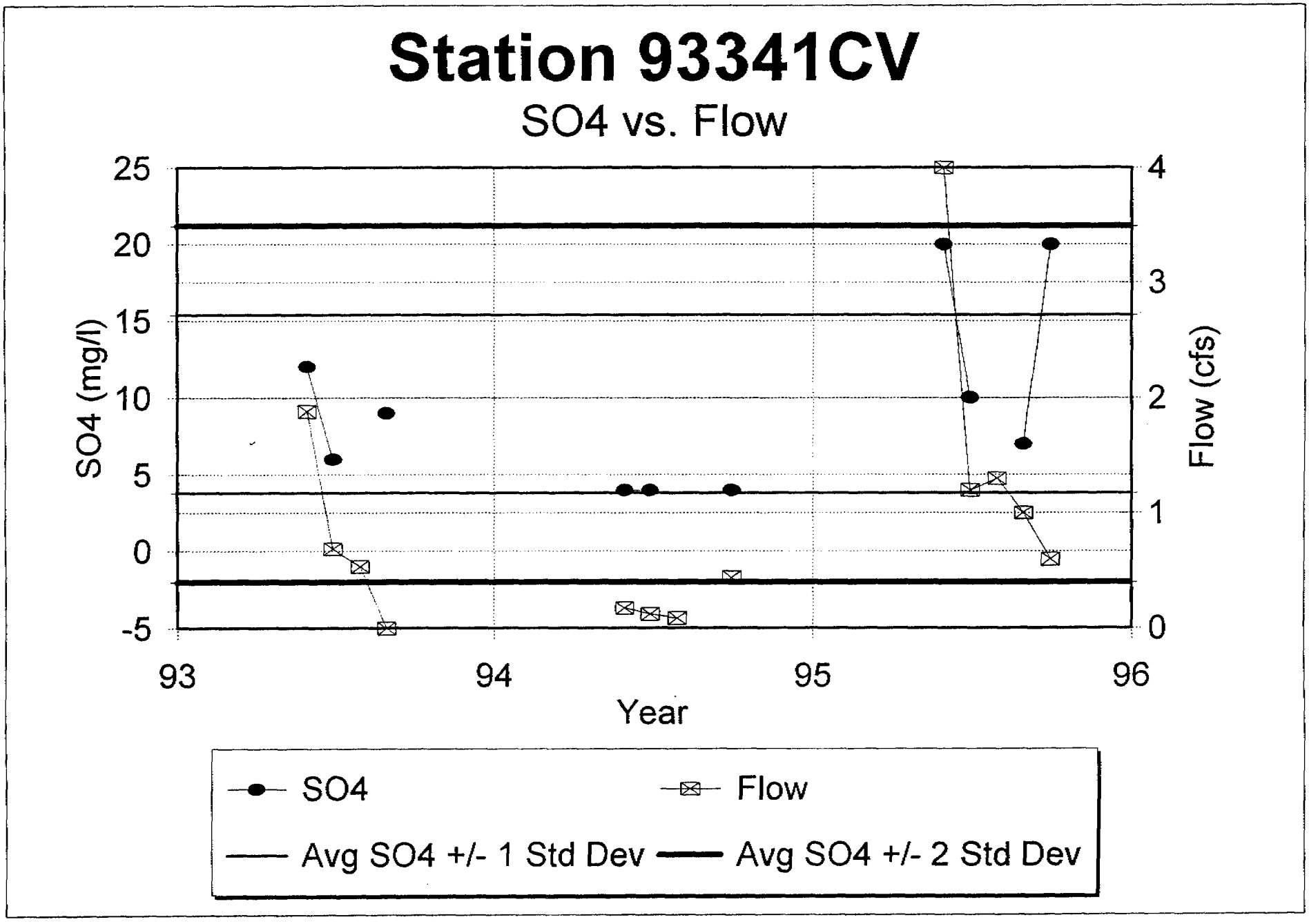

Station 93341CV
Oil & Grease vs. Flow
O&G (mg/l)
3.5
3
2.5
2
1.5
1
Flow (cfs)
4
3
2
1
0
93
94
95
96
Year
O&G
Flow
Avg O&G +/- 1 Std Dev
Avg O&G +/- 2 Std Dev


Station 93341CV
Ca vs. Flow
Ca (mg/l)
55
50
45
40
35
30
25
20
Flow (cfs)
4
3
2
1
0
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 93341CV
Mg vs. Flow
Mg (mg/l)
14
12
10
8
6
4
Flow (cfs)
4
3
2
1
0
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 93341CV
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
5
4
3
2
1
0
-1
4
3
2
1
0
93
94
95
96
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 93341CV
HCO3 vs. Flow
HCO3 (mg/l)
220
200
180
160
140
120
100
80
60
40
Flow (cfs)
4
3
2
1
0
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 93341CV
SO4 vs. Flow
SO4 (mg/l)
Flow (cfs)
Year
25
20
15
10
5
0
-5
4
3
2
1
0
93
94
95
96
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

APPENDIX D
IN-MINE STATIONS

Cyprus Plateau Mining Company - Water Quality Data

Station: 1W4 | Property: Star Point | Location: 2125' N 1625' W of SE corn. Sec 7 T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Print Date: April 26, 1996 | Elevation: about 8500

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-85																						
Feb-85																						
Mar-85																						
Apr-85																						
May-85																						
Jun-85	06/17/85	0.03				782																
Jul-85	07/25/85	0.02				860																
Aug-85																						
Sep-85																						
Oct-85	10/29/85	0.01				848																
Nov-85																						
Dec-85																						
Jan-86																						
Feb-86																						
Mar-86	03/19/86	0				847																
Apr-86																						
May-86																						
Jun-86	06/18/86	0.01				769																
Jul-86																						
Aug-86																						
Sep-86	09/16/86	0.01				810																
Oct-86																						
Nov-86																						
Dec-86	12/18/86	0				884																
Jan-87																						
Feb-87																						
Mar-87	03/18/87	0				776																
Apr-87																						
May-87																						
Jun-87	06/08/87	0.01				842																
Jul-87																						
Aug-87																						
Sep-87	09/25/87	0				888																
Oct-87																						
Nov-87																						
Dec-87	12/16/87	0				850																
Jan-88																						
Feb-88																						
Mar-88	03/23/88	0				856																
Apr-88	04/15/88	0				884																
May-88																						
Jun-88																						
Jul-88	07/27/88	0.01				856																
Aug-88																						
Sep-88																						
Oct-88	10/27/88	0.01				902																
Nov-88																						
Dec-88																						
Jan-89	01/25/89	0.01				904																
Feb-89																						
Mar-89																						
Apr-89	04/28/89	0.01				914																
May-89																						
Jun-89																						
Jul-89	07/12/89	0				946																
Aug-89																						
Sep-89																						
Oct-89	10/25/89	0				938																
Nov-89																						
Dec-89																						
Jan-90	01/16/90	0	7.7	1040	7	926			808	312		9	488	141	111	5	6	<	0.02	0.02 <	0.01	
Feb-90																						
Mar-90																						
Apr-90	04/18/90	0	8.1	1310	8	918			767	288		9	502	156	92	5	6	<	0.02	0.02 <	0.01	
May-90																						
Jun-90																						
Jul-90	07/02/90	0	8	1260	8				777	301		8	512	145	101	5	5	<	0.02 <	0.02 <	0.01	Diss. Solids not included
Aug-90																						
Sep-90																						
Oct-90	10/24/90	0	8.1	1050	8	984			752	287		8	471	140	98	5	6	<	0.02	0.06 <	0.01	
Nov-90																						
Dec-90																						

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 26, 1996

Station: 1W4 | Property: Star Point | Location: 2125' N 1625' W of SE corn. Sec 7 T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: about 8500

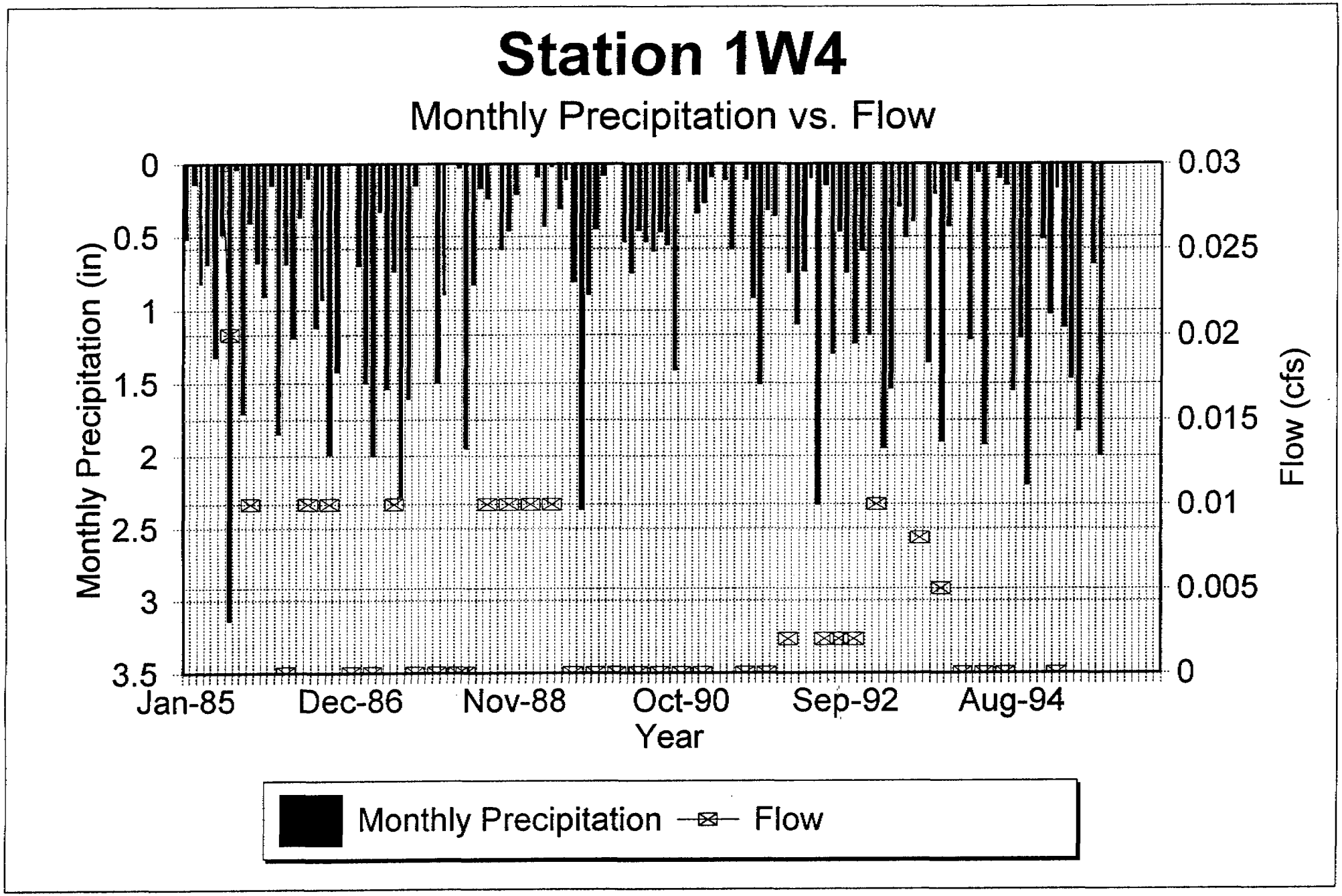
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-91	01/22/91	0	7.1	1010		962			672			9	515	121	90	5	5	<	0.02	0.39	< 0.01	
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91																						
Jul-91	07/26/91	0	8.1	1060	8	1010			801	256	12	8	527	145	107	6	6	<	0.02	0.72	0.02	
Aug-91																						
Sep-91																						
Oct-91	10/28/91	0	8		8	942			771	293	0	8	543	136	105	5	6	<	0.02	0.05	< 0.01	
Nov-91																						
Dec-91																						
Jan-92	01/22/92	0.002	7.2	1080	6	964			792	229	0	15	552	138	109	6	6	<	0.02	0.09	< 0.01	
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92	06/23/92	0.002	7.7	1.2	6.9	1036			724	264	0	9	574	129	98	5	5	<	0.02	2.33	< 0.01	
Jul-92																						
Aug-92	08/31/92	0.002	6.8	751	8.6	940	990		670	275	0	9	486	117	92	5	5		0.05	5.22	< 0.01	
Sep-92																						
Oct-92	10/31/92	0.002	6.7	1	6.8	966			771	244	14	16	587	136	105	5	5	<	0.02	1.86	< 0.01	
Nov-92																						
Dec-92																						
Jan-93	01/27/93	0.01	6.4	1514	6.3	970			768	300	0	8	572	135	105	5	6	<	0.02	0.05	< 0.01	
Feb-93																						
Mar-93																						
Apr-93																						
May-93																						
Jun-93																						
Jul-93	07/21/93	0.008	6.7	1270	6.9	1056			854	288	5	7	593	158	112	6	6	<	0.02 <	0.02	< 0.01	
Aug-93																						
Sep-93																						
Oct-93	10/20/93	0.005	6.7	1229	10	1012			794	293	0	7	591	142	170	5	5		0.09	1.49	0.03	
Nov-93																						
Dec-93																						
Jan-94	01/27/94	0				1000			752	188	0	7	593	132	103	5	7		0.06	2.33	0.03	Meter Broken, No Data
Feb-94																						
Mar-94																						
Apr-94	04/25/94	0	7.6	1310	10.2	1010			742	307	0	5	474	136	98	5	5		0.08	4.78	0.05	
May-94																						
Jun-94																						
Jul-94	07/20/94	0	8.1	1307	10.1	1118			820	246	5	7	634	146	111	6	6		0.05	2.32	0.03	
Aug-94																						
Sep-94																						
Oct-94	10/27/94																					Access Sealed Off
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95	02/27/95	0																				mine area sealed - no acc
Mar-95																						
Apr-95	04/27/95																					site inaccessible
May-95																						
Jun-95																						
Jul-95																						
Aug-95																						
Sep-95																						
Oct-95																						
Nov-95	11/28/95																					mine area sealed off - no
Dec-95																						
Jan-96																						
END DATA																						
	Count	37	16	15	15	35	1	0	17	16	12	17	17	17	17	17	17	0	17	17	17	
	Minimum	0	6.4	1	6	769	990	ERR	670	188	0	5	471	117	90	5	5	ERR <	0.02 <	0.02 <	0.01	
	Maximum	0.03	8.1	1514	10.2	1118	990	ERR	854	312	14	16	634	158	170	6	7	ERR <	0.09 <	5.22 <	0.05	
	Average	0.0044	7.4375	1012.9	7.92	919.14	990	ERR	766.76	273.19	3	8.7647	542	138.41	106.29	5.2353	5.6471	ERR <	0.0335 <	1.2806 <	0.0165	
	Standard Deviation	0.0066	0.604	433.04	1.2978	80.841	0	ERR	46.056	32.346	4.8477	2.6685	48.073	10.233	17.265	0.4242	0.5882	ERR <	0.0227 <	1.6238 <	0.0113	
	Avg. -1 Std. Dev.	-0.002	6.8335	579.84	6.6222	838.3	990	ERR	720.71	240.84	-1.848	6.0962	493.93	128.18	89.029	4.8111	5.0588	ERR <	0.0108 <	-0.343 <	0.0051	
	Avg. +1 Std. Dev.	0.0109	8.0415	1445.9	9.2178	999.98	990	ERR	812.82	305.53	7.8477	11.433	590.07	148.64	123.56	5.6595	6.2353	ERR <	0.0563 <	2.9044 <	0.0278	

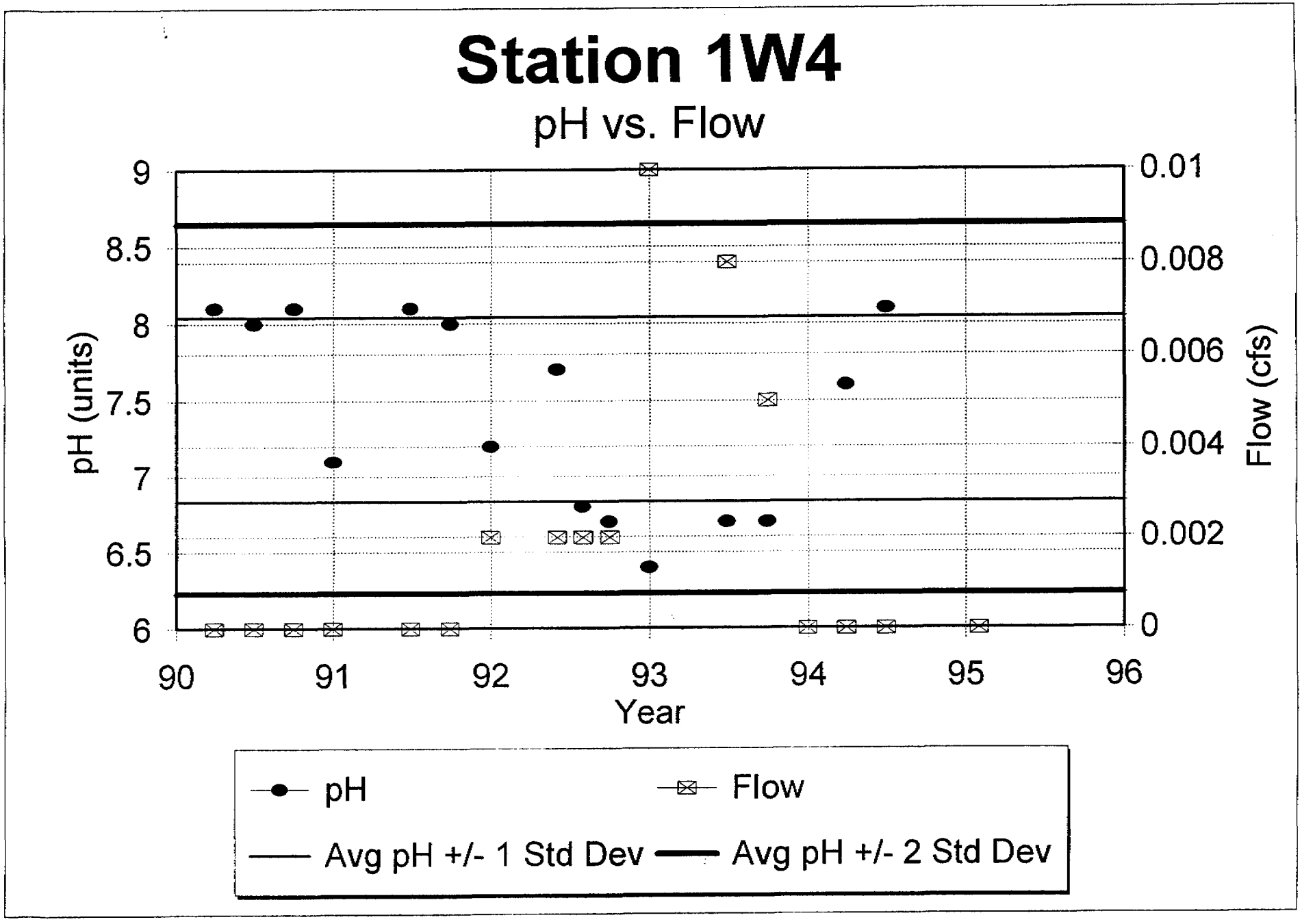
Cyprus Plateau Mining Company - Water Quality Data

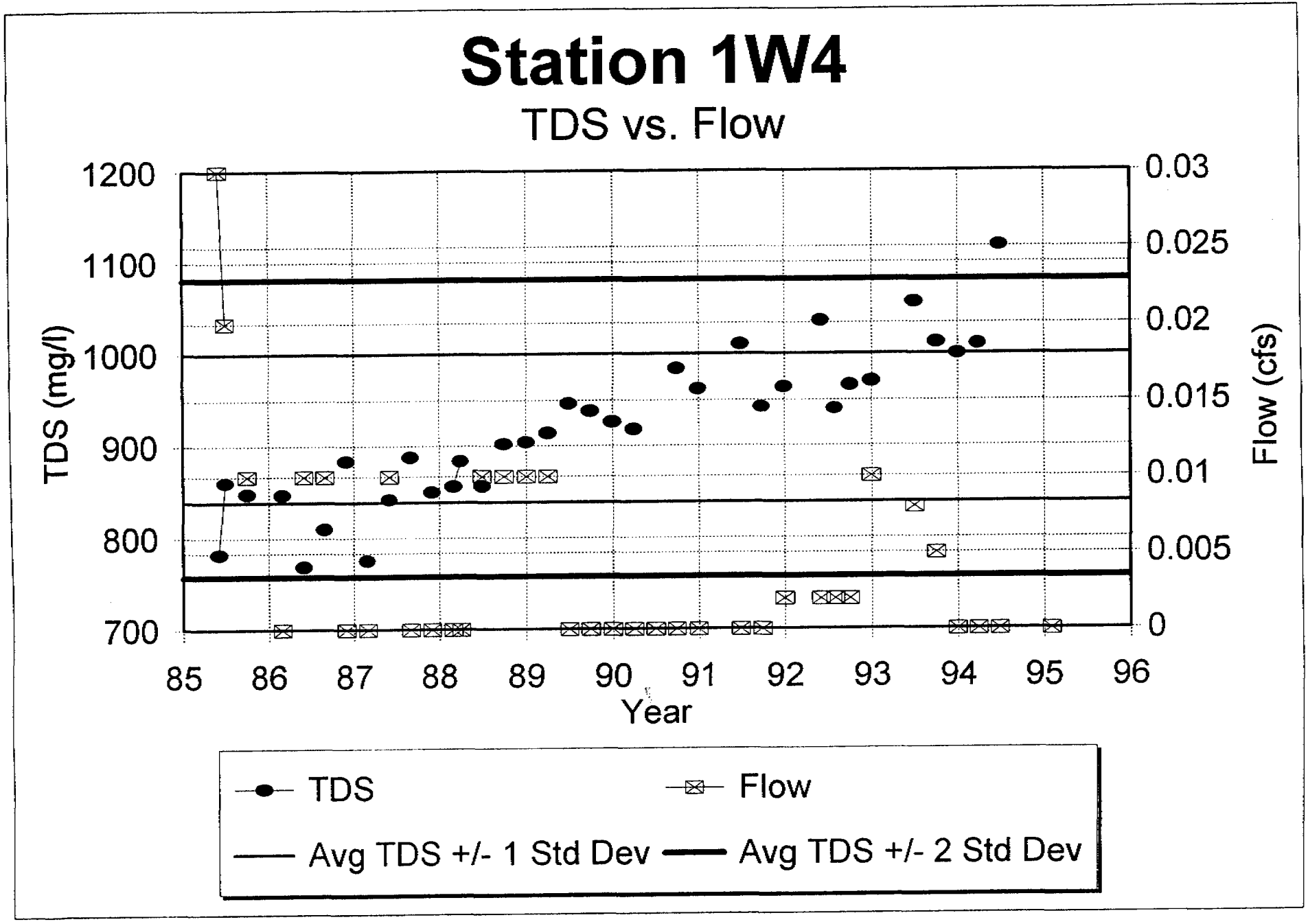
Station: 1W4 | Property: Star Point | Location: 2125' N 1625' W of SE corn. Sec 7 T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Print Date: April 26, 1996 | Elevation: about 8500

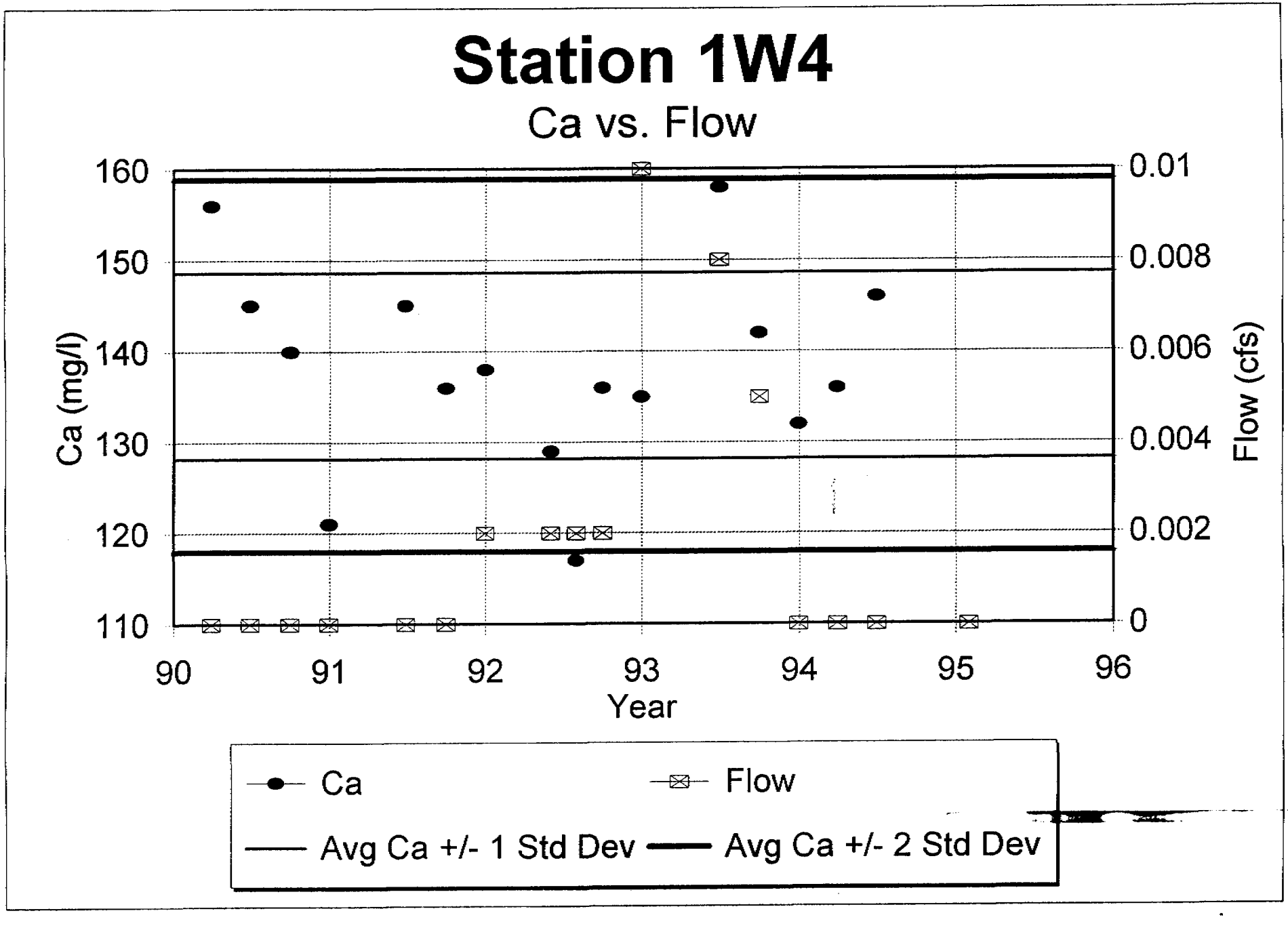
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Avg. -2 Std. Dev.		-0.009	6.2295	146.79	5.3244	757.46	990	ERR	674.65	208.5	-6.695	3.4276	445.85	117.95	71.764	4.3869	4.4706	ERR <	-0.012 <	-1.967 <	-0.006	
Avg. +2 Std. Dev.		0.0175	8.6455	1879	10.516	1080.8	990	ERR	858.88	337.88	12.695	14.102	638.15	158.88	140.82	6.0837	6.8235	ERR <	0.079 <	4.5283 <	0.0392	

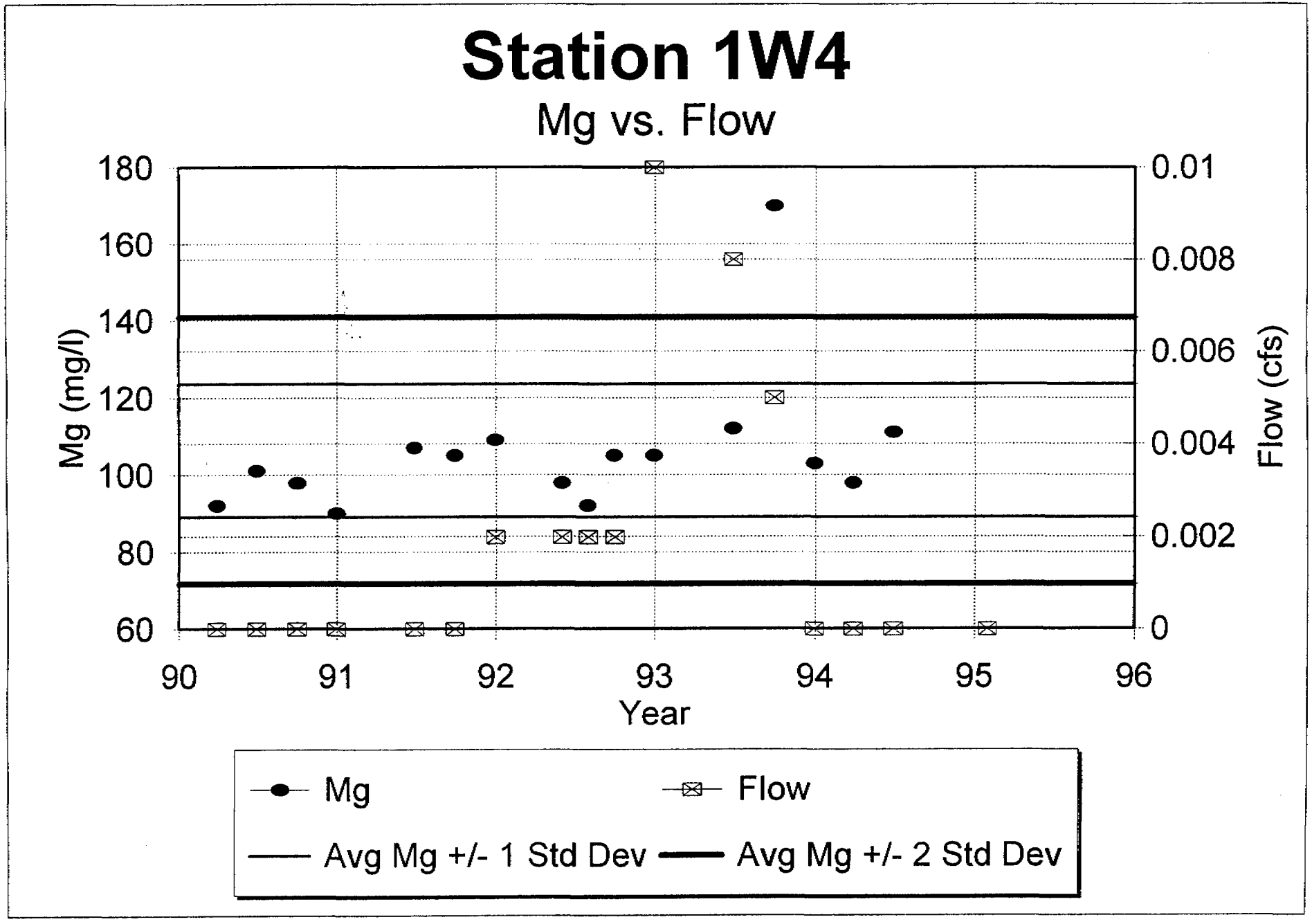
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

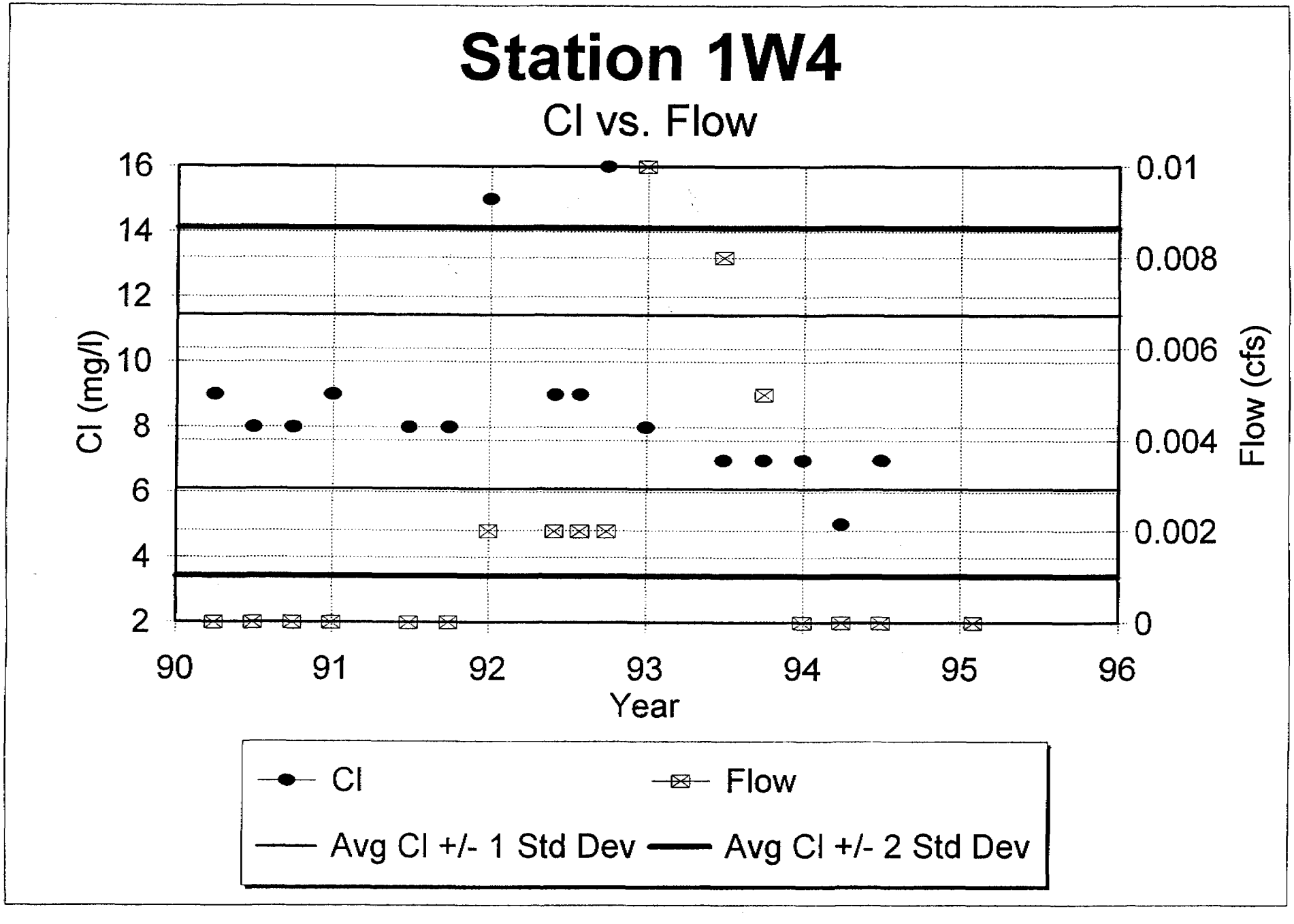

Station 1W4
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
3
3.5
Flow (cfs)
0.03
0.025
0.02
0.015
0.01
0.005
0
Jan-85
Dec-86
Nov-88
Oct-90
Sep-92
Aug-94
Year
Monthly Precipitation
Flow

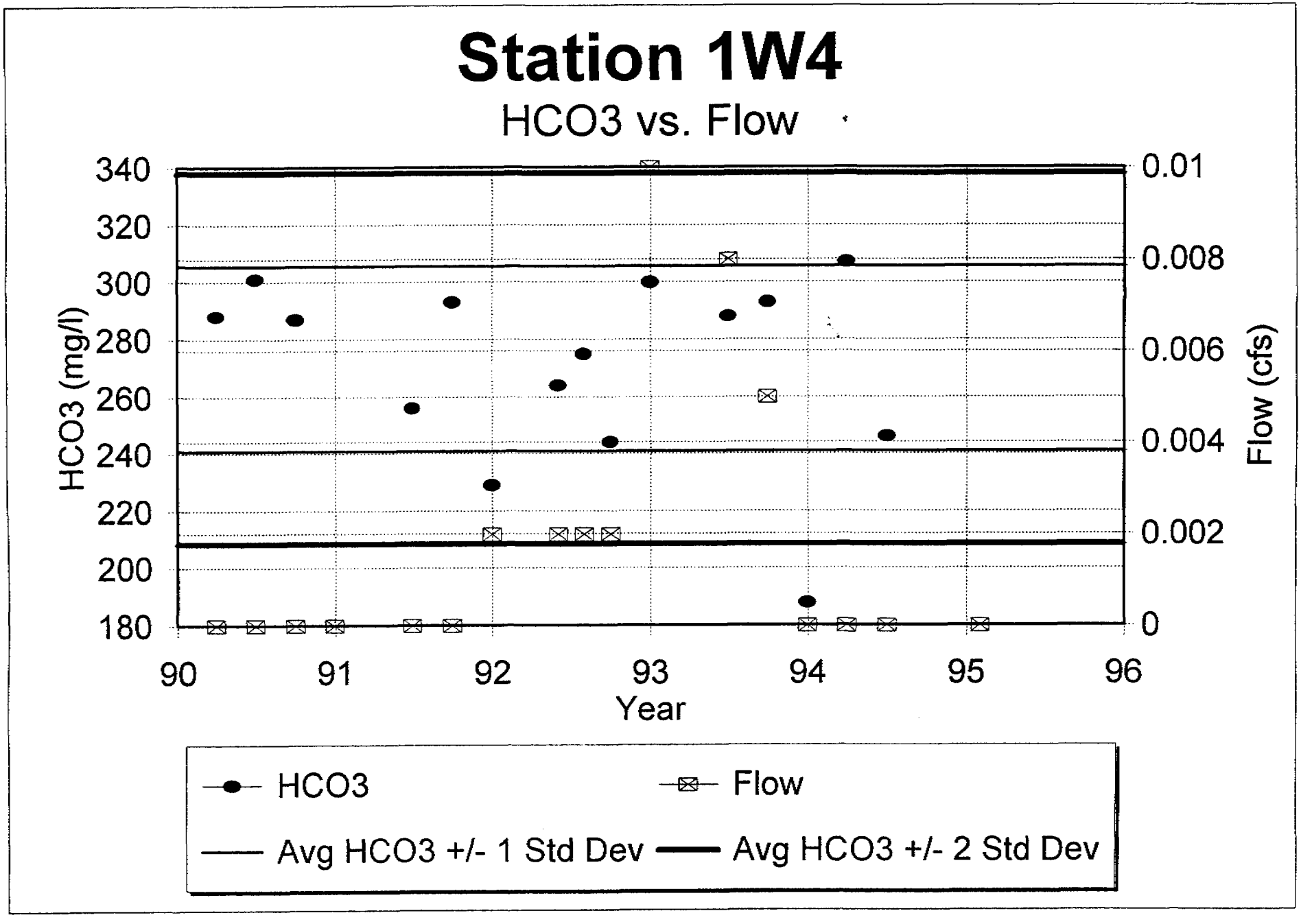

Station 1W4
pH vs. Flow
pH (units)
9
8.5
8
7.5
7
6.5
6
Flow (cfs)
0.01
0.008
0.006
0.004
0.002
0
90
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

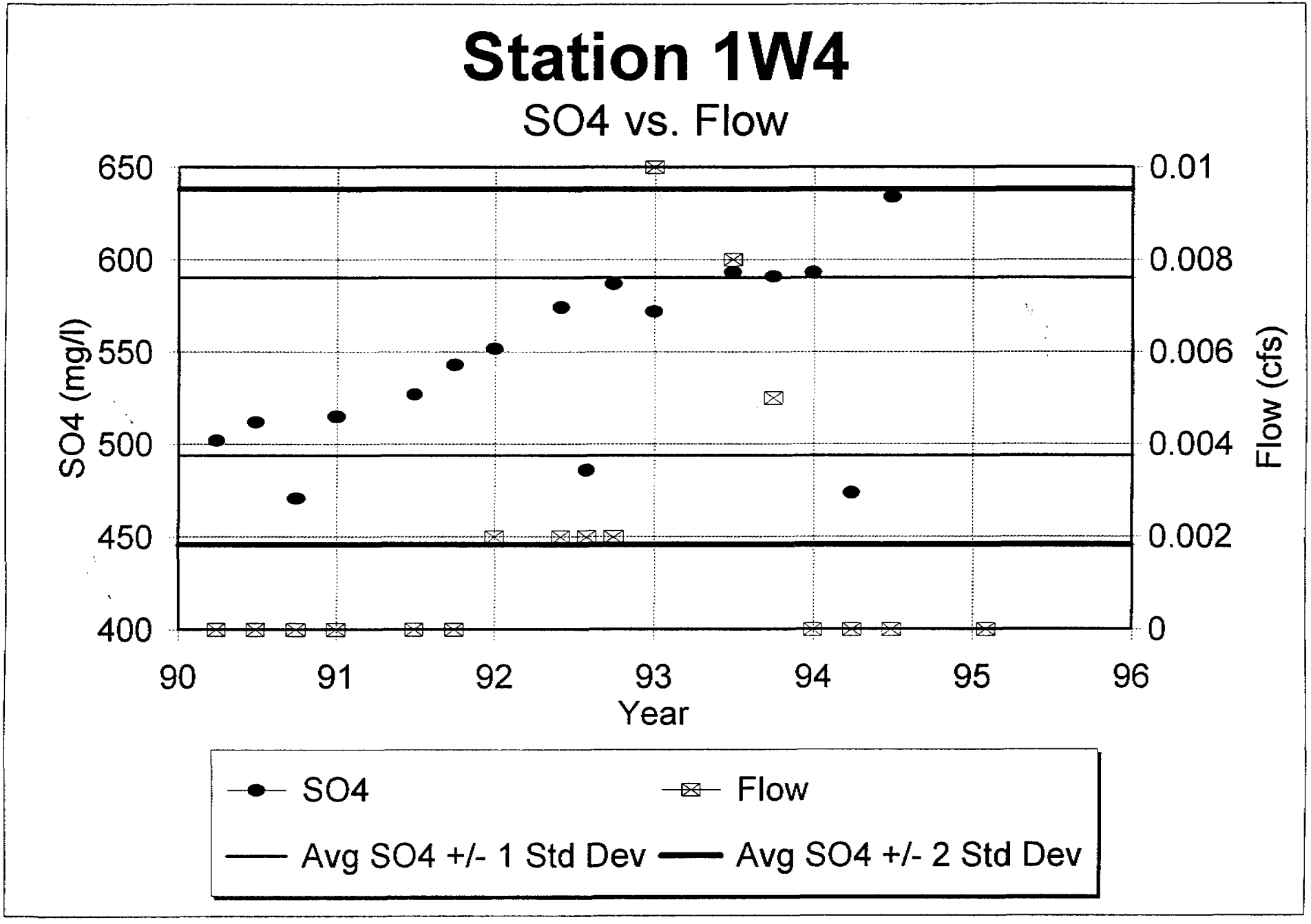

Station 1W4
TDS vs. Flow
TDS (mg/l)
1200
1100
1000
900
800
700
Flow (cfs)
0.03
0.025
0.02
0.015
0.01
0.005
0
85
86
87
88
89
90
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 1W4
Ca vs. Flow
160
150
140
130
120
110
Ca (mg/l)
0.01
0.008
0.006
0.004
0.002
0
Flow (cfs)
90
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 1W4
Mg vs. Flow
Mg (mg/l)
180
160
140
120
100
80
60
Flow (cfs)
0.01
0.008
0.006
0.004
0.002
0
90
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 1W4
Cl vs. Flow
Cl (mg/l)
16
14
12
10
8
6
4
2
0.01
0.008
0.006
0.004
0.002
0
Flow (cfs)
90
91
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 1W4
HCO3 vs. Flow
HCO3 (mg/l)
340
320
300
280
260
240
220
200
180
Flow (cfs)
0.01
0.008
0.006
0.004
0.002
0
90
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 1W4
SO4 vs. Flow
650
600
550
500
450
400
SO4 (mg/l)
0.01
0.008
0.006
0.004
0.002
0
Flow (cfs)
90
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 26, 1996

Station: 1WN6 | Property: Star Point | Location: 1500' N 500' E of SW corn. Sec 7, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: about 8500

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-85																						
Feb-85																						
Mar-85																						
Apr-85																						
May-85																						
Jun-85	06/17/85	0.08				715																
Jul-85	07/25/85	0.05				644																
Aug-85	08/29/85	0.03	8			606	3			337	1	5	265	68	64	3	2	<	0.05	0.14	0.03	
Sep-85																						
Oct-85	10/29/85	0.01	7.7			658	6			382	1	4	225	102	69	4	5	<	0.05	0.05	0.01	
Nov-85																						
Dec-85																						
Jan-86																						
Feb-86																						
Mar-86	03/19/86	0	7.8			720	7			301		5	350	114	77	4	5	<	0.05	0.08	< 0.01	
Apr-86																						
May-86																						
Jun-86	06/18/86	0.06	7.2		4.4	752				383		5	340	124	86	4.3	4.6	<	0.05	0.24	0.05	
Jul-86																						
Aug-86																						
Sep-86	09/16/86	0.06	8.2	798	5	643				387	1	6	250	120	69	4	4	<	0.05	0.16	0.02	
Oct-86																						
Nov-86																						
Dec-86	12/18/86	0.01	8.2			716				373		13	280	118	68	13.9	5.5	<	0.05	0.31	0.01	
Jan-87																						
Feb-87																						
Mar-87	03/18/87	0.01				572				338		4	250	89	75	3	5		0.16	7.24	0.03	
Apr-87																						
May-87																						
Jun-87	06/08/87	0.01	8.5	1000	7	702				366		6	325	141	84	5	4		0.57	0.57	0.02	
Jul-87																						
Aug-87																						
Sep-87	09/25/87	0	7.9	1300	5	736			616	371		4	321	102	88	3	6	<	0.02	0.34	0.01	
Oct-87																						
Nov-87																						
Dec-87	12/16/87	0				700			612	281		9	340	102	106	3	4	<	0.02	0.33	< 0.01	
Jan-88																						
Feb-88																						
Mar-88	03/23/88	0	8.2	900	15	776			645	279		5	403	112	93	3	4	<	0.02	1.21	0.01	
Apr-88	04/15/88	0	8.1	705	15	824			683	256		5	438	132	93	5	6		0.03	0.14	< 0.01	
May-88																						
Jun-88																						
Jul-88	07/27/88	0.01	8.2	700	13.5	772			617	316		5	372	104	87	3	5		0.31	0.47	0.02	
Aug-88																						
Sep-88																						
Oct-88	10/27/88	0	8.2	700	7	796			670	295		5	416	122	89	4	4		0.17	6.9	< 0.01	
Nov-88																						
Dec-88																						
Jan-89	01/25/89	0	7.4	870	10	910			769	237		5	515	142	101	5	6		0.04	0.75	0.01	
Feb-89																						
Mar-89																						
Apr-89	04/28/89	0	7.6	810	6	976			764	234		5	576	135	104	4 <	1	<	0.02	0.23	< 0.01	
May-89																						
Jun-89																						
Jul-89	07/12/89	0																				NO FLOW
Aug-89																						
Sep-89																						
Oct-89	10/25/89	0																				NO FLOW
Nov-89																						
Dec-89																						
Jan-90	01/16/90	0																				NO FLOW
Feb-90																						
Mar-90																						
Apr-90																						
May-90																						
Jun-90																						
Jul-90	07/02/90	0																				NO FLOW
Aug-90																						
Sep-90																						
Oct-90	10/24/90	0																				NO FLOW
Nov-90																						
Dec-90																						

Cyprus Plateau Mining Company - Water Quality Data

Print Date: May 7, 1996

Station: 1WN6 | Property: Star Point | Location: 1500' N 500' E of SW corn. Sec 7, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: about 8500

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-91																							
Feb-91																							
Mar-91																							
Apr-91																							
May-91																							
Jun-91																							
Jul-91	07/26/91	0																					
Aug-91																							
Sep-91																							
Oct-91																							
Nov-91																							
Dec-91																							
Jan-92	01/22/92	0																					NO FLOW
Feb-92																							
Mar-92																							
Apr-92																							
May-92																							
Jun-92	06/23/92	0																					NO FLOW
Jul-92																							
Aug-92	08/31/92	0																					NO FLOW
Sep-92																							
Oct-92																							
Nov-92																							
Dec-92																							
Jan-93	01/27/93	0																					NO FLOW
Feb-93																							
Mar-93																							
Apr-93																							
May-93																							
Jun-93																							
Jul-93	07/21/93	0																					NO FLOW
Aug-93																							
Sep-93																							
Oct-93	10/19/93	0																					NO FLOW
Nov-93																							
Dec-93																							
Jan-94																							
Feb-94																							
Mar-94																							
Apr-94	04/25/94	0																					NO FLOW
May-94																							
Jun-94																							
Jul-94																							
Aug-94																							
Sep-94																							
Oct-94	10/27/94	0																					NO FLOW
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95																							
Mar-95																							
Apr-95	04/26/95																						site inaccessible
May-95																							
Jun-95																							
Jul-95																							
Aug-95																							
Sep-95																							
Oct-95																							
Nov-95	11/28/95	0																					
Dec-95																							
Jan-96																							
END DATA																							
Count		33	14	9	10	18	3	0	8	16	3	16	16	16	16	16	16	0	16	16	16		
Minimum		0	7.2	700	4.4	572	3	ERR	612	234	1	4	225	68	64	3 <	1	ERR <	0.02	0.05 <	0.01		
Maximum		0.08	8.5	1300	15	976	7	ERR	769	387	1	13	576	142	106	13.9 <	6	ERR <	0.57	7.24 <	0.05		
Average		0.01	7.9429	864.78	8.79	734.33	5.3333	ERR	672	321	1	5.6875	354.13	114.19	84.563	4.45 <	4.4438	ERR <	0.1038	1.1975 <	0.0169		
Standard Deviation		0.0207	0.3499	181.43	4.0369	97.998	1.6997	ERR	59.674	51.847	0	2.2	94.485	18.991	12.796	2.5478 <	1.3337	ERR <	0.1419	2.2383 <	0.011		
Avg. -1 Std. Dev.		-0.011	7.5929	683.34	4.7531	636.34	3.6337	ERR	612.33	269.15	1	3.4875	259.64	95.197	71.766	1.9022 <	3.1101	ERR <	-0.038	-1.041 <	0.0059		
Avg. +1 Std. Dev.		0.0307	8.2928	1046.2	12.827	832.33	7.033	ERR	731.67	372.85	1	7.8875	448.61	133.18	97.359	6.9978 <	5.7774	ERR <	0.2457	3.4358 <	0.0279		

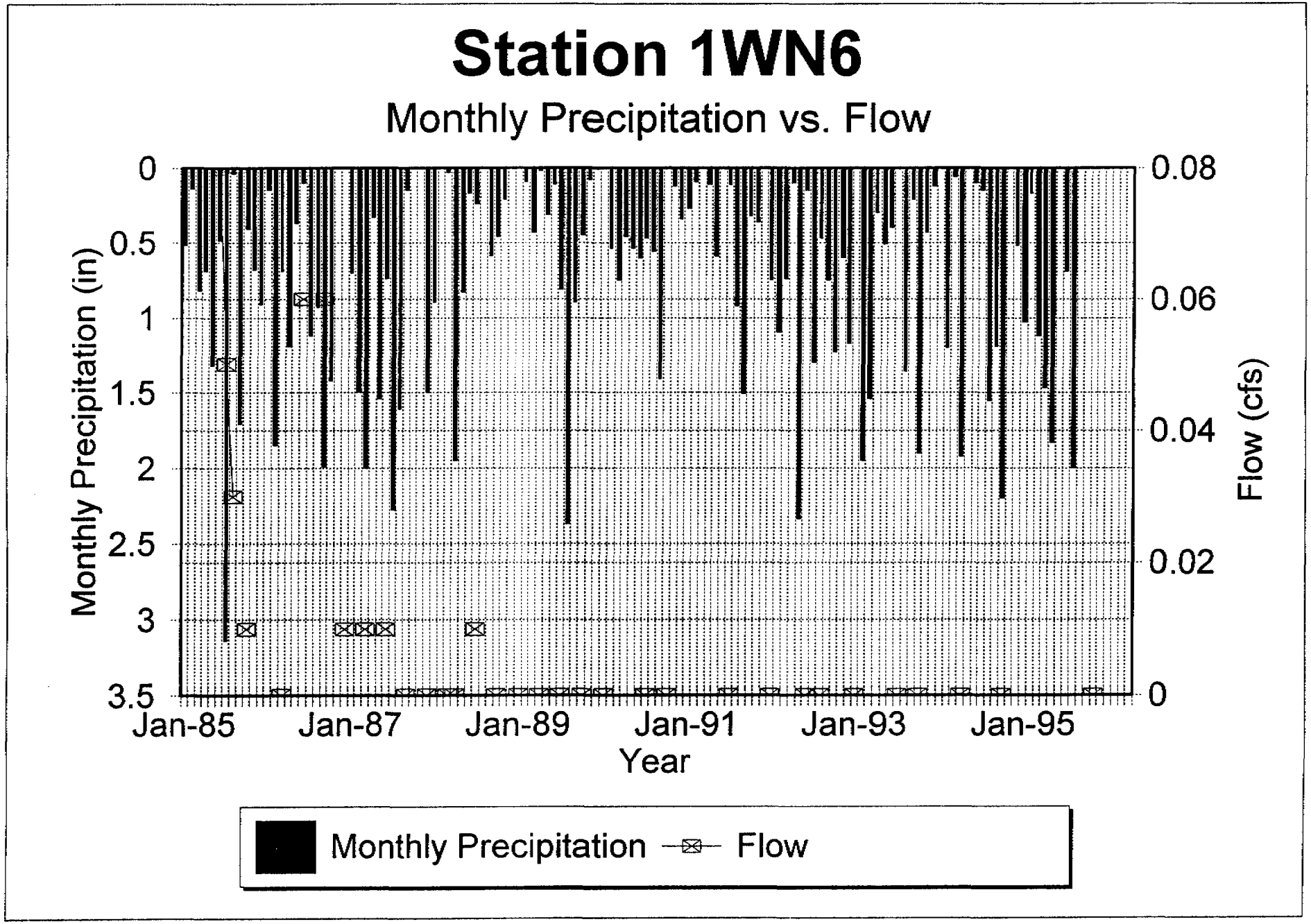
Cyprus Plateau Mining Company - Water Quality Data

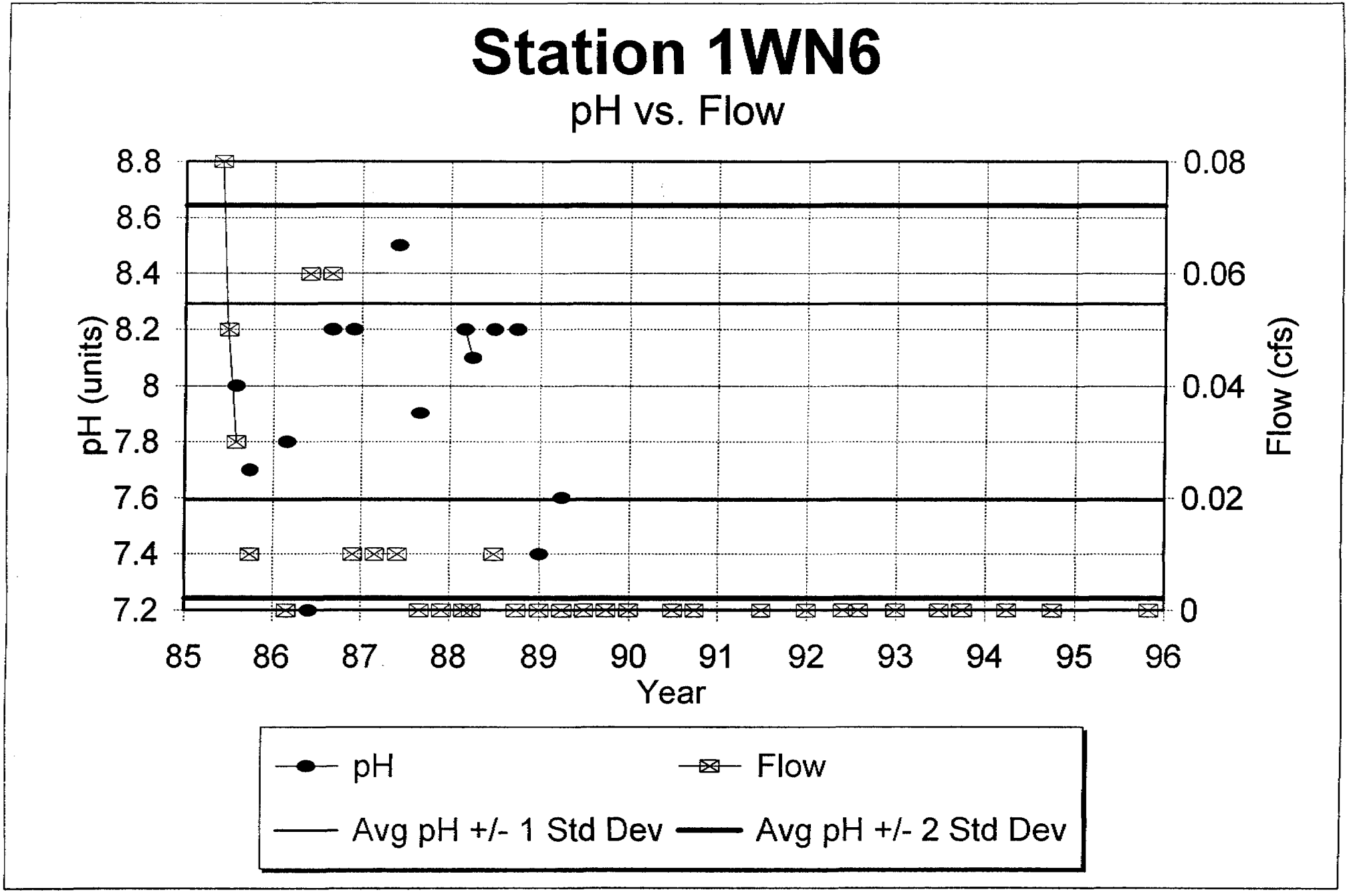
Print Date: May 7, 1996

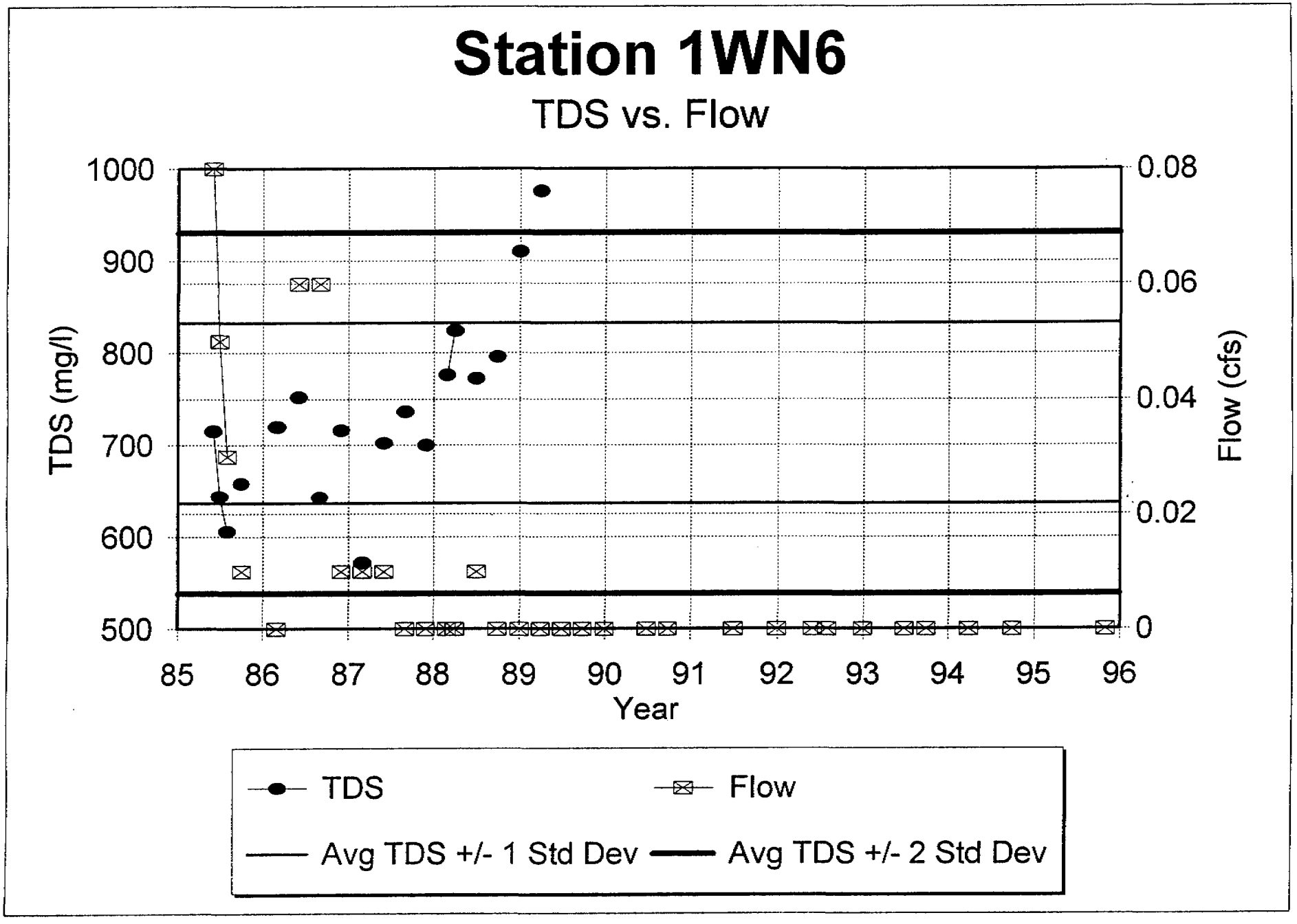
Station: 1WN6 | Property: Star Point | Location: 1500' N 500' E of SW corn. Sec 7, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: about 8500

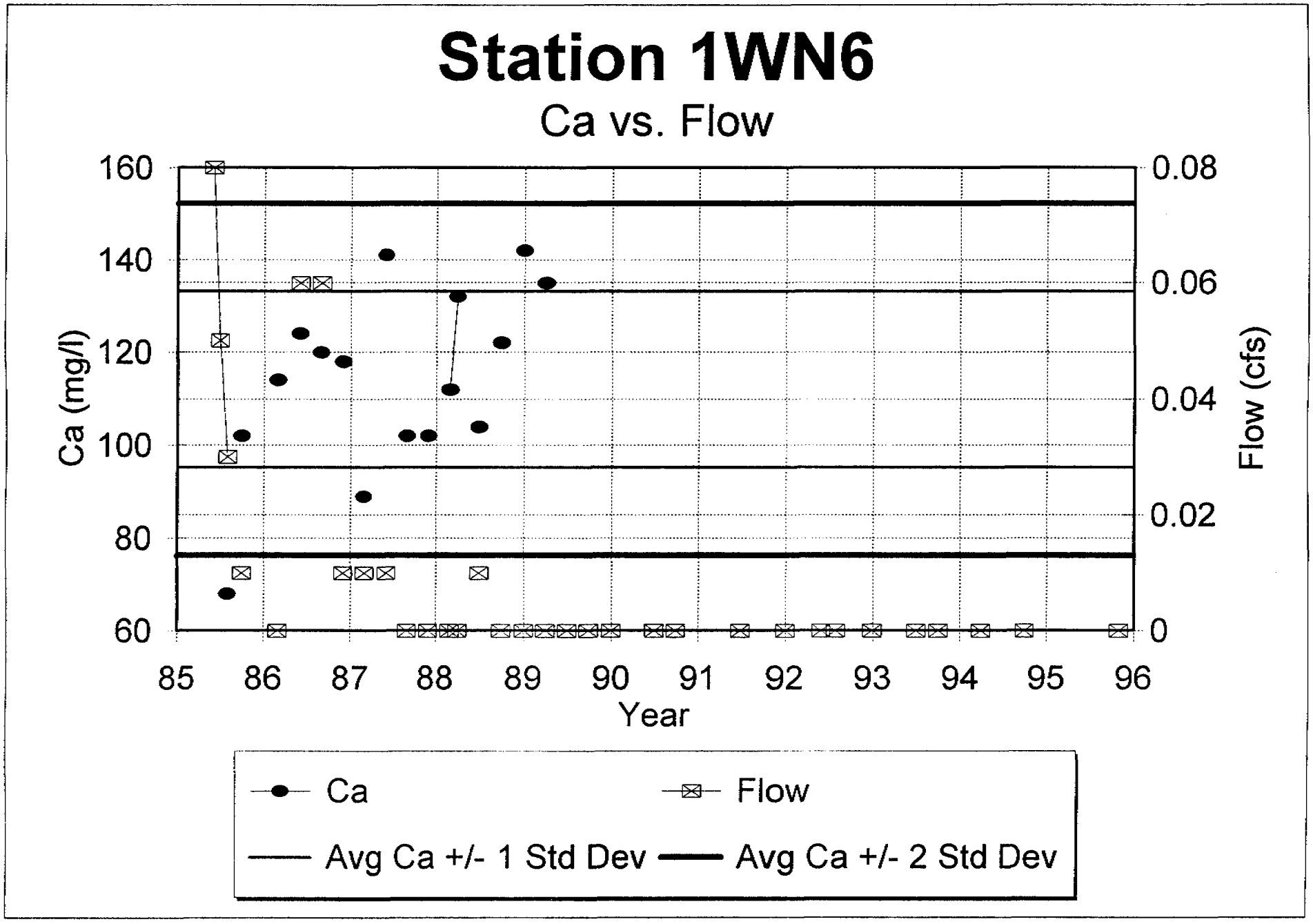
Date		Field Measurements				Laboratory Measurements																Comments
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	
Avg. -2 Std. Dev.		-0.031	7.243	501.91	0.7161	538.34	1.934	ERR	552.65	217.31	1	1.2876	165.16	76.206	58.97	-0.646 <	1.7764	ERR <	-0.18	-3.279 <	-0.005	
Avg. +2 Std. Dev.		0.0515	8.6427	1227.6	16.864	930.33	8.7327	ERR	791.35	424.69	1	10.087	543.09	152.17	110.16	9.5456 <	7.1111	ERR <	0.3876	5.6741 <	0.0389	

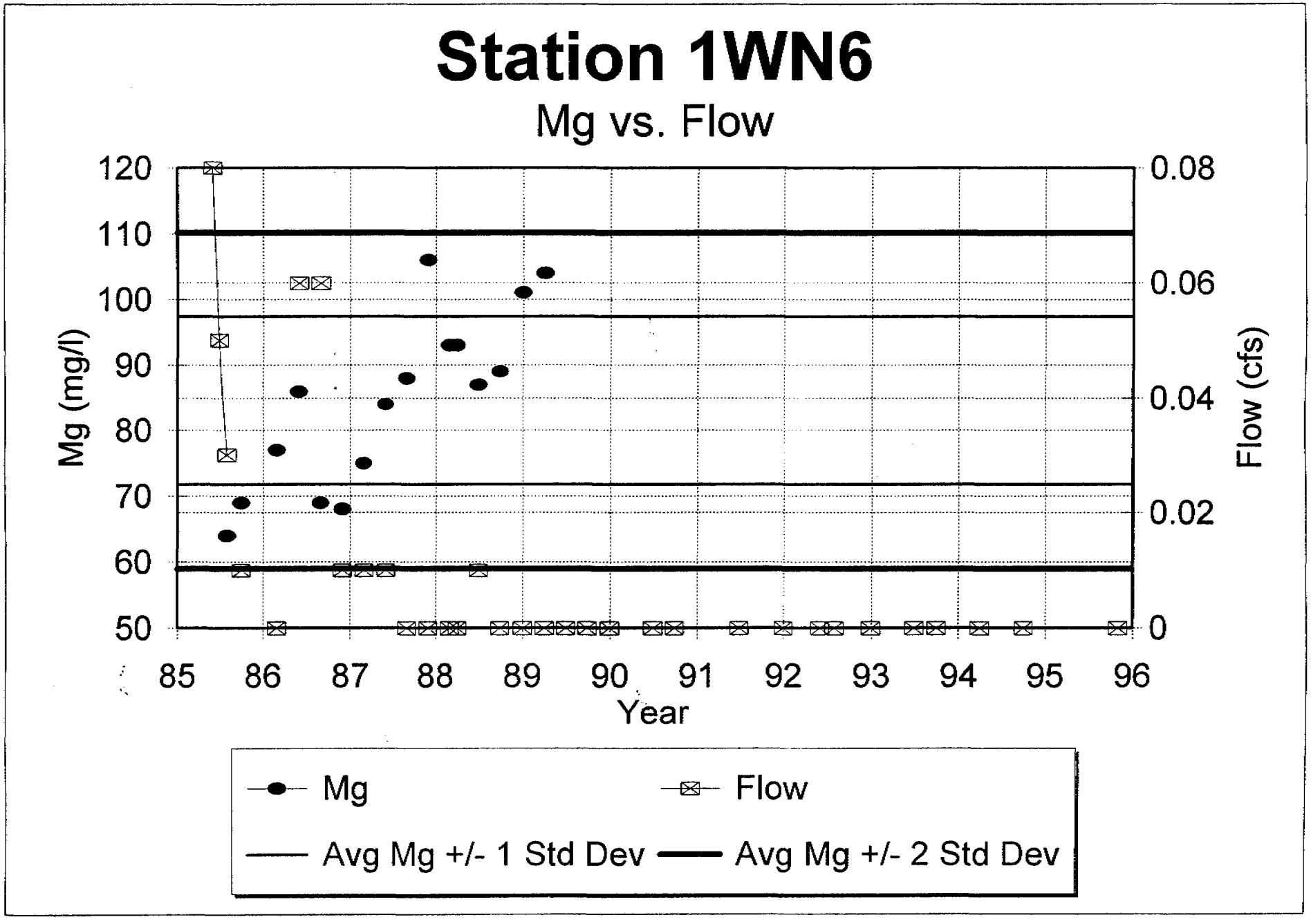
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

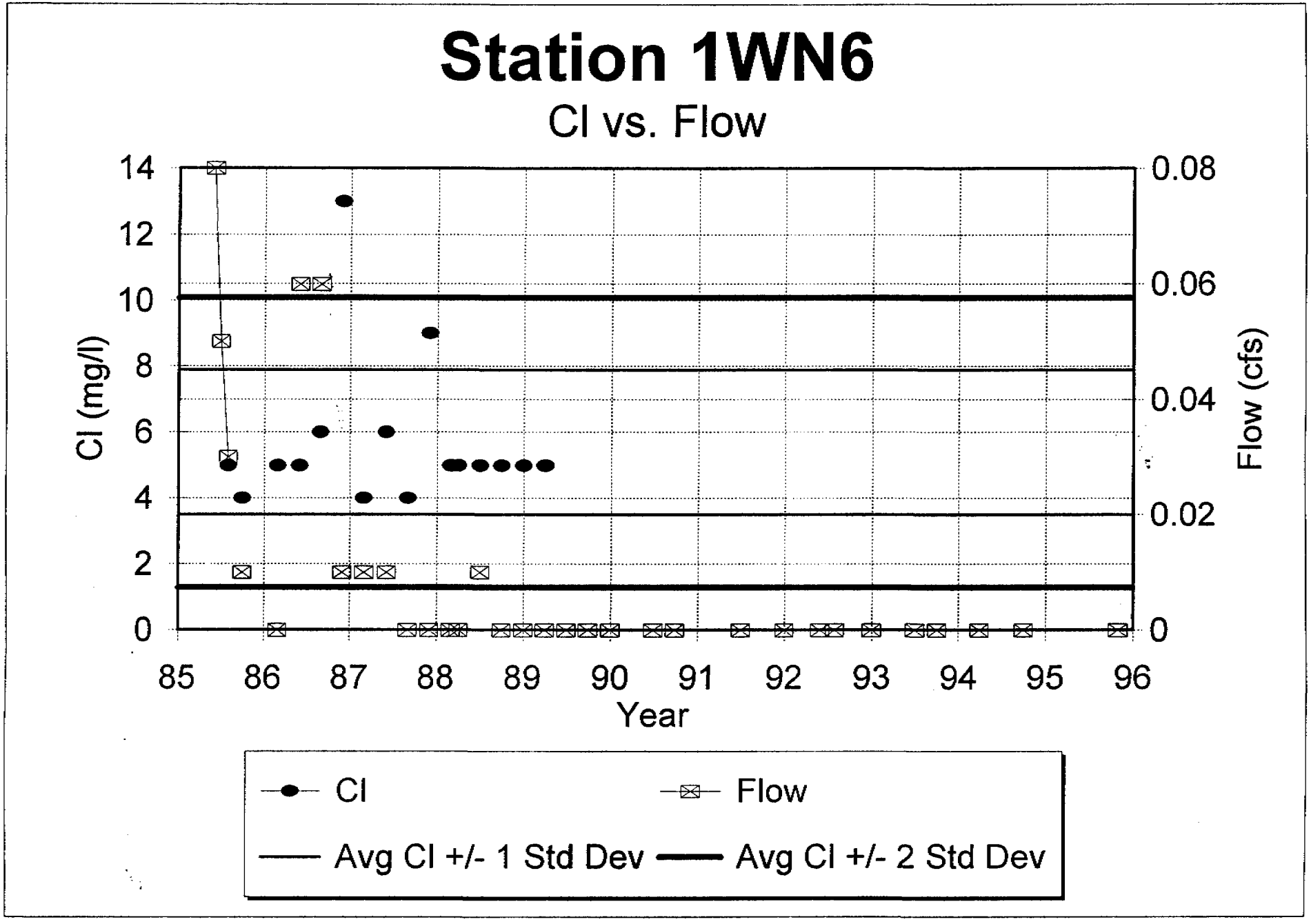

Station 1WN6
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
3
3.5
Flow (cfs)
0.08
0.06
0.04
0.02
0
Jan-85
Jan-87
Jan-89
Jan-91
Jan-93
Jan-95
Year
Monthly Precipitation
Flow

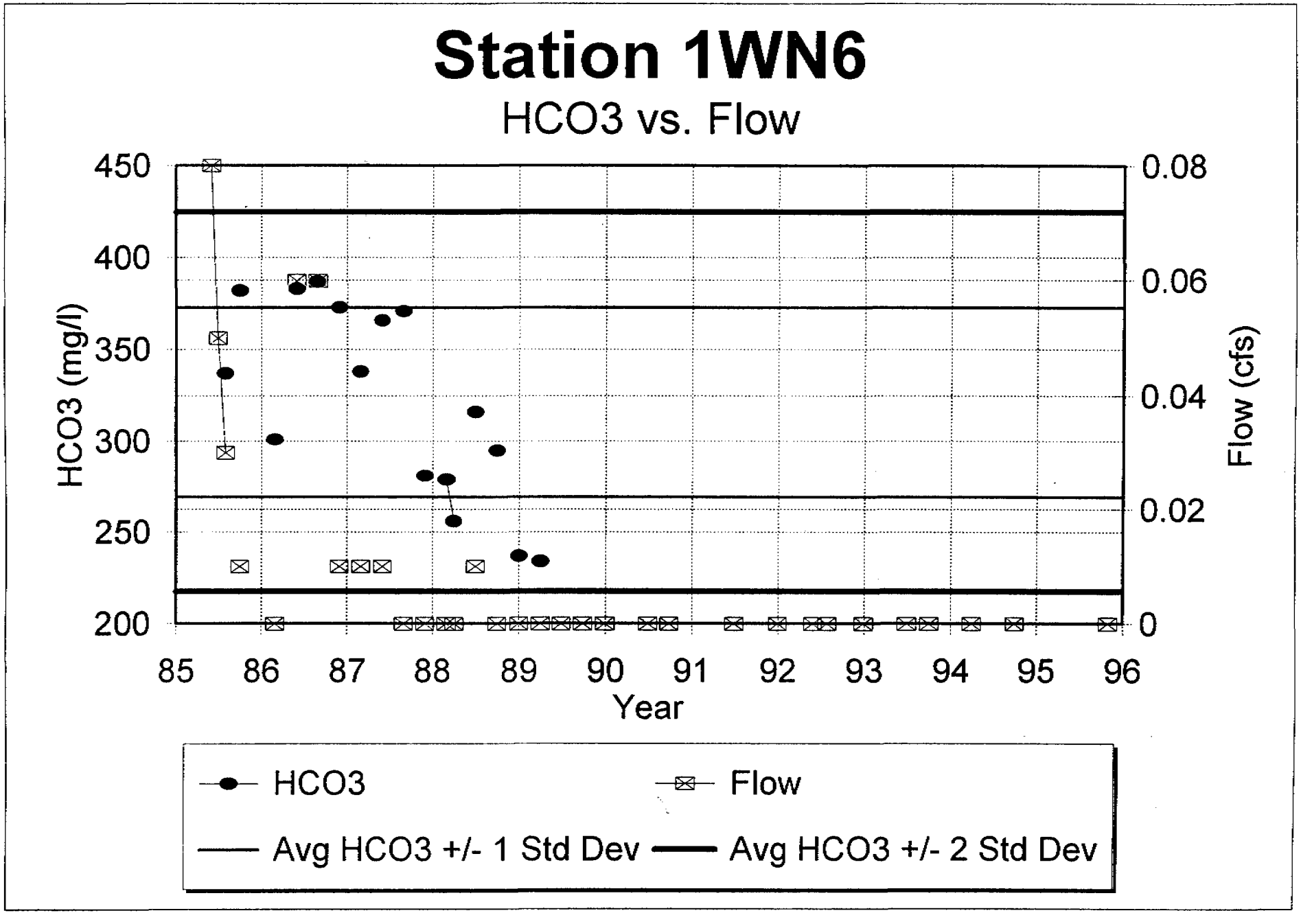

Station 1WN6
pH vs. Flow
8.8
8.6
8.4
8.2
8
7.8
7.6
7.4
7.2
pH (units)
0.08
0.06
0.04
0.02
0
Flow (cfs)
85
86
87
88
89
90
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

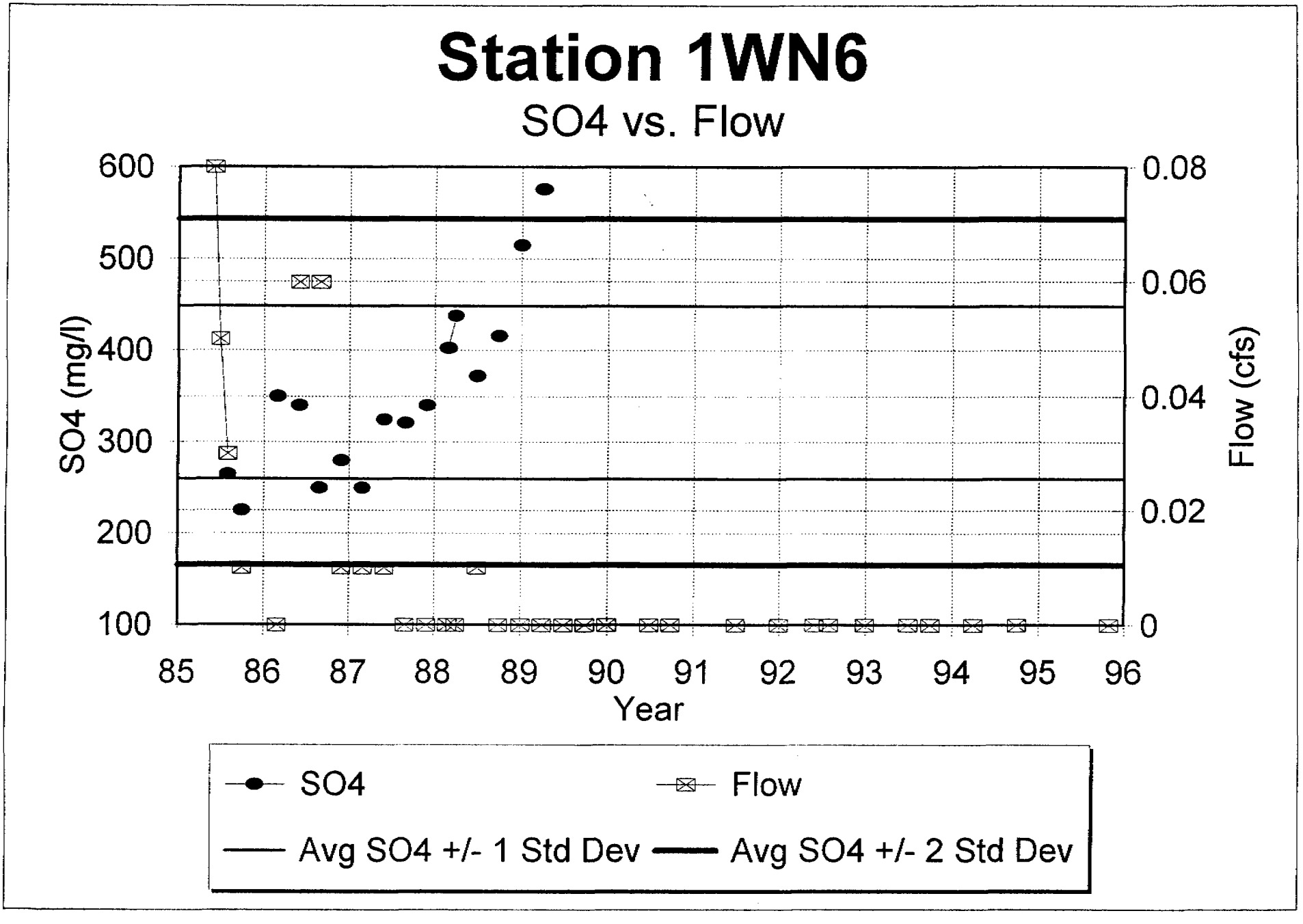

Station 1WN6
TDS vs. Flow
TDS (mg/l)
1000
900
800
700
600
500
Flow (cfs)
0.08
0.06
0.04
0.02
0
85
86
87
88
89
90
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 1WN6
Ca vs. Flow
Ca (mg/l)
160
140
120
100
80
60
Flow (cfs)
0.08
0.06
0.04
0.02
0
85
86
87
88
89
90
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 1WN6
Mg vs. Flow
Mg (mg/l)
120
110
100
90
80
70
60
50
Flow (cfs)
0.08
0.06
0.04
0.02
0
85
86
87
88
89
90
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 1WN6
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
0
2
4
6
8
10
12
14
0
0.02
0.04
0.06
0.08
85
86
87
88
89
90
91
92
93
94
95
96
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 1WN6
HCO3 vs. Flow
HCO3 (mg/l)
450
400
350
300
250
200
Flow (cfs)
0.08
0.06
0.04
0.02
0
85
86
87
88
89
90
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 1WN6
SO4 vs. Flow
600
500
400
300
200
100
SO4 (mg/l)
0.08
0.06
0.04
0.02
0
Flow (cfs)
85
86
87
88
89
90
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Station: 9L12 | Property: Star Point | Location: 1625' S 500' W of NE corn. Sec 13, T15S, R7E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Print Date: April 26, 1996 | Elevation: about 8470

Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-85																						
Feb-85																						
Mar-85	03/22/85					743																
Apr-85	04/22/85	0.28				717																
May-85	05/24/85	0.15				764																
Jun-85	06/17/85	0.11				773																
Jul-85																						
Aug-85	08/29/85	0.3				802																
Sep-85																						
Oct-85	10/31/85	0.26				868																
Nov-85																						
Dec-85																						
Jan-86																						
Feb-86																						
Mar-86	03/19/86	0.2				1114																
Apr-86																						
May-86																						
Jun-86	06/18/86					1055																
Jul-86																						
Aug-86																						
Sep-86	09/16/86	0.19				1174																
Oct-86																						
Nov-86																						
Dec-86	12/18/86	0.16				1492																
Jan-87																						
Feb-87																						
Mar-87	03/18/87	0.21				1274																
Apr-87																						
May-87																						
Jun-87	06/08/87	0.23				1250																
Jul-87																						
Aug-87																						
Sep-87	09/25/87	0.19				1134																
Oct-87																						
Nov-87																						
Dec-87	12/16/87	0.17				1232																
Jan-88																						
Feb-88																						
Mar-88	03/23/88	0.09				1210																
Apr-88	04/15/88	0.09				1250																
May-88																						
Jun-88																						
Jul-88	07/27/88	0.22				1196																
Aug-88																						
Sep-88																						
Oct-88	10/27/88	0.21				1172																
Nov-88																						
Dec-88																						
Jan-89	01/25/89	0.15				1144																
Feb-89																						
Mar-89																						
Apr-89	04/28/89	0.1				1182																
May-89																						
Jun-89																						
Jul-89	07/12/89	0.13				1230																
Aug-89																						
Sep-89																						
Oct-89	10/25/89	0.04				1230																
Nov-89																						
Dec-89																						
Jan-90	01/16/90	0.08	7.3	1340	9	1254			1008	359		5	679	259	88	14	7	<	0.02 <	0.02 <	0.01	
Feb-90																						
Mar-90																						
Apr-90	04/18/90	0.07	7.8	1890	9	1232			972	320		5	724	205	112	12	7	<	0.02	0.03 <	0.01	
May-90																						
Jun-90																						
Jul-90	07/02/90	0.08	7.7	1530	9	1326			988	366		4	724	218	108	11	6	<	0.02 <	0.02 <	0.01	
Aug-90																						
Sep-90																						
Oct-90	10/24/90	0.09	7.8	1330	7	1346			984	326		4	768	205	115	10	7	<	0.02	0.06	0.02	
Nov-90																						
Dec-90																						

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 26, 1996

Station: 9L12 | Property: Star Point | Location: 1625' S 500' W of NE corn. Sec 13, T15S, R7E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: about 8470

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-91	01/22/91	0.09	7.4	1330		1388			1007			5	793	211	117	11	21	<	0.02 <	0.02 <	0.01	
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91																						
Jul-91	07/26/91	0.07	8.1	1140	8	1410			1085	325	12	4	790	224	128	13	7	<	0.02 <	0.02		
Aug-91																						
Sep-91																						
Oct-91	10/28/91	0	7.9		8	1296			969	332	0	5	770	194	118	12	7	<	0.02 <	0.02		
Nov-91																						
Dec-91																						
Jan-92	01/22/92	0.07	7.3	1390	6	1296			1039	278	0	6	772	209	126	13	7	<	0.02 <	0.02 <	0.01	
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92	06/23/92		7.2	1620	9.6	1342			854	276	0	7	630	171	104	10	6	<	0.02 <	0.02 <	0.01	
Jul-92																						
Aug-92	08/31/92	0.061	7.3	1700	9.3	1322 <	2		1004	305	0	6	778	200	123	11	22	<	0.02 <	0.02 <	0.01	
Sep-92																						
Oct-92	10/31/92	0.0704	6.4	2	9.3	1270			960	268	14	3	788	189	119	12	6	<	0.02 <	0.02 <	0.01	
Nov-92																						
Dec-92																						
Jan-93	01/27/93	0.4	6.1	1650	9.2	1252			921	290	0	4	745	183	113	11	6	<	0.02 <	0.02 <	0.01	
Feb-93																						
Mar-93																						
Apr-93	04/30/93	0.04	6.7	1390	10	1234			967	293	0	4	764	190	120	12	6	<	0.02 <	0.02 <	0.01	
May-93																						
Jun-93																						
Jul-93	07/21/93	0.051	6.5	1430	9.6	1250			947	295	0	4	770	187	117	12	6	<	0.02 <	0.02 <	0.01	
Aug-93																						
Sep-93																						
Oct-93	10/19/93	0.045	6.4	1440	9.6	1208			890	317	0	4	714	174	111	12	6	<	0.02 <	0.02 <	0.01	
Nov-93																						
Dec-93																						
Jan-94	01/26/94	0.017				1238			883	163	0	3	751	171	111	11	7	<	0.02 <	0.02 <	0.01	Meter Broken - No Data
Feb-94																						
Mar-94																						
Apr-94	04/25/94	0.022	7.4	1580	10	1264			907	337	0	3	700	176	114	11	6	<	0.02 <	0.02 <	0.01	
May-94																						
Jun-94																						
Jul-94	07/20/94	0.027	7.7	1535	10.1	1310			970	315	0	4	757	188	122	12	7		0.02 <	0.02 <	0.01	
Aug-94																						
Sep-94																						
Oct-94	10/27/94	0.033	7.6	1538	9	1260			862	255	0	4	730	167	108	11	6		0	0	0	
Nov-94																						
Dec-94																						
Jan-95																						
Feb-95	02/27/95	0.018	7.58	1614	9.11	1270			940	259		4	740	182	118	11.3	6.2	-3.7 <	0.01	0.02 <	0.005	
Mar-95																						
Apr-95	04/26/95	0.028	7.7	1597	11	1300			990	272		4	770	192	124	12.3	6.5	-3.2 <	0.01 <	0.01 <	0.005	
May-95																						
Jun-95																						
Jul-95																						
Aug-95	08/24/95		7.6	1590	12	1360			950	271		3	760	181	121	11.6	6.7	-4.6 <	0.01 <	0.01 <	0.005	
Sep-95																						
Oct-95																						
Nov-95	11/28/95	0.055	8.1	1610		1310			971	281		5	740	183	125	11.7	6.4	-3.2 <	0.01 <	0.01 <	0.005	
Dec-95																						
Jan-96																						
END DATA																						
Count		41	22	21	20	45	1	0	23	22	15	23	23	23	23	23	23	4	23	23	21	
Minimum		0	6.1	2	6	717 <	2	ERR	854	163	0	3	630	167	88	10	6	-4.6 <	0 <	0 <	0	
Maximum		0.4	8.1	1890	12	1492 <	2	ERR	1085	366	14	7	793	259	128	14	22	-3.2 <	0.02 <	0.06 <	0.02	
Average		0.1194	7.3445	1440.3	9.1905	1194.3 <	2	ERR	959.48	295.59	1.7333	4.3478	745.96	193.87	115.74	11.648	7.7739	-3.675 <	0.0174 <	0.02 <	0.009	
Standard Deviation		0.0903	0.561	358.33	1.2609	181.19 <	0	ERR	54.267	41.975	4.4342	1.0047	37.803	20.524	8.5171	0.9084	4.2609	0.5717 <	0.0053 <	0.0102 <	0.0037	
Avg. -1 Std. Dev.		0.0291	6.7835	1082	7.9296	1013.1 <	2	ERR	905.21	253.62	-2.701	3.3431	708.15	173.35	107.22	10.739	3.513	-4.247 <	0.0121 <	0.0098 <	0.0054	
Avg. +1 Std. Dev.		0.2096	7.9056	1798.6	10.451	1375.5 <	2	ERR	1013.7	337.57	6.1675	5.3525	783.76	214.39	124.26	12.556	12.035	-3.103 <	0.0227 <	0.0302 <	0.0127	

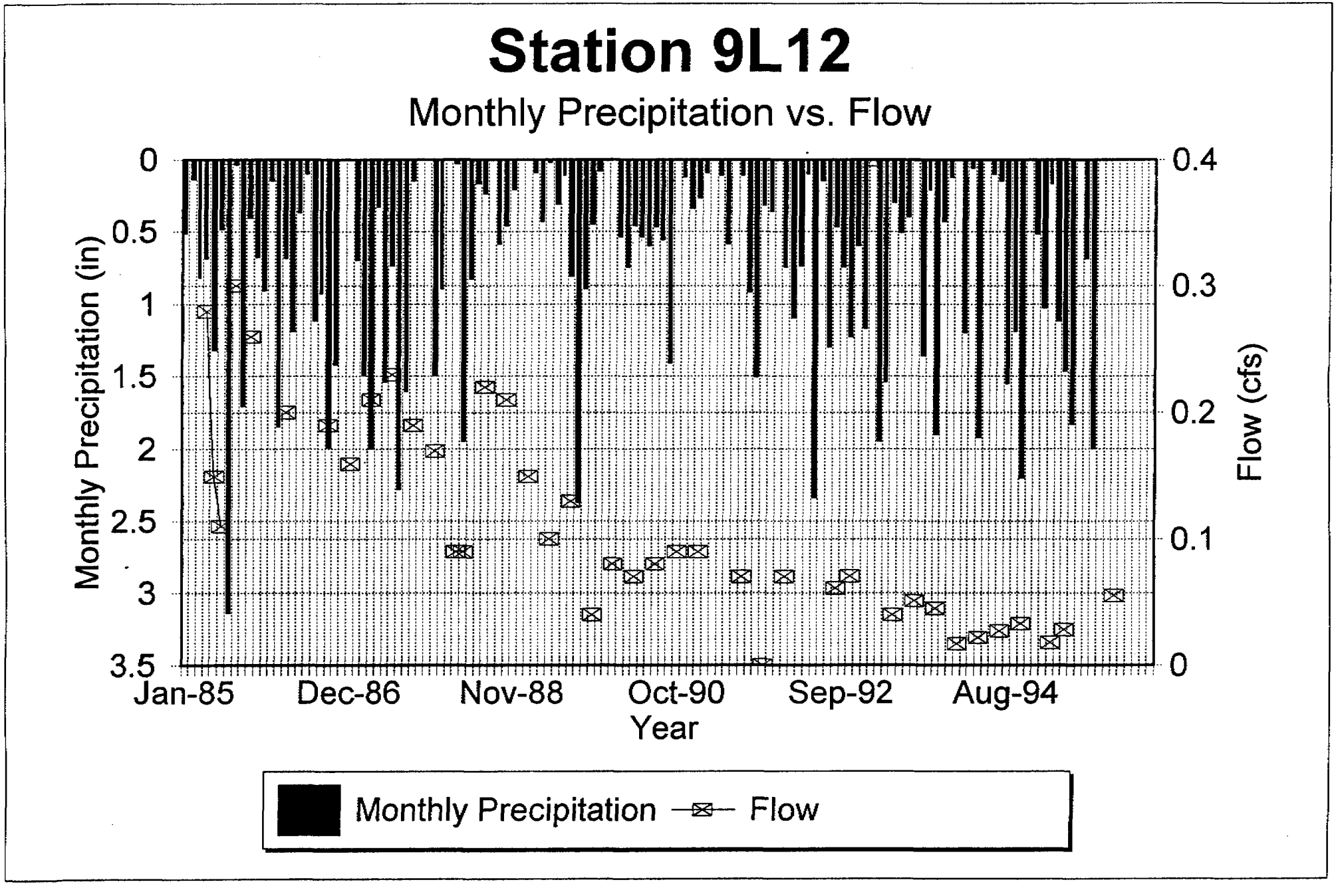
Cyprus Plateau Mining Company - Water Quality Data

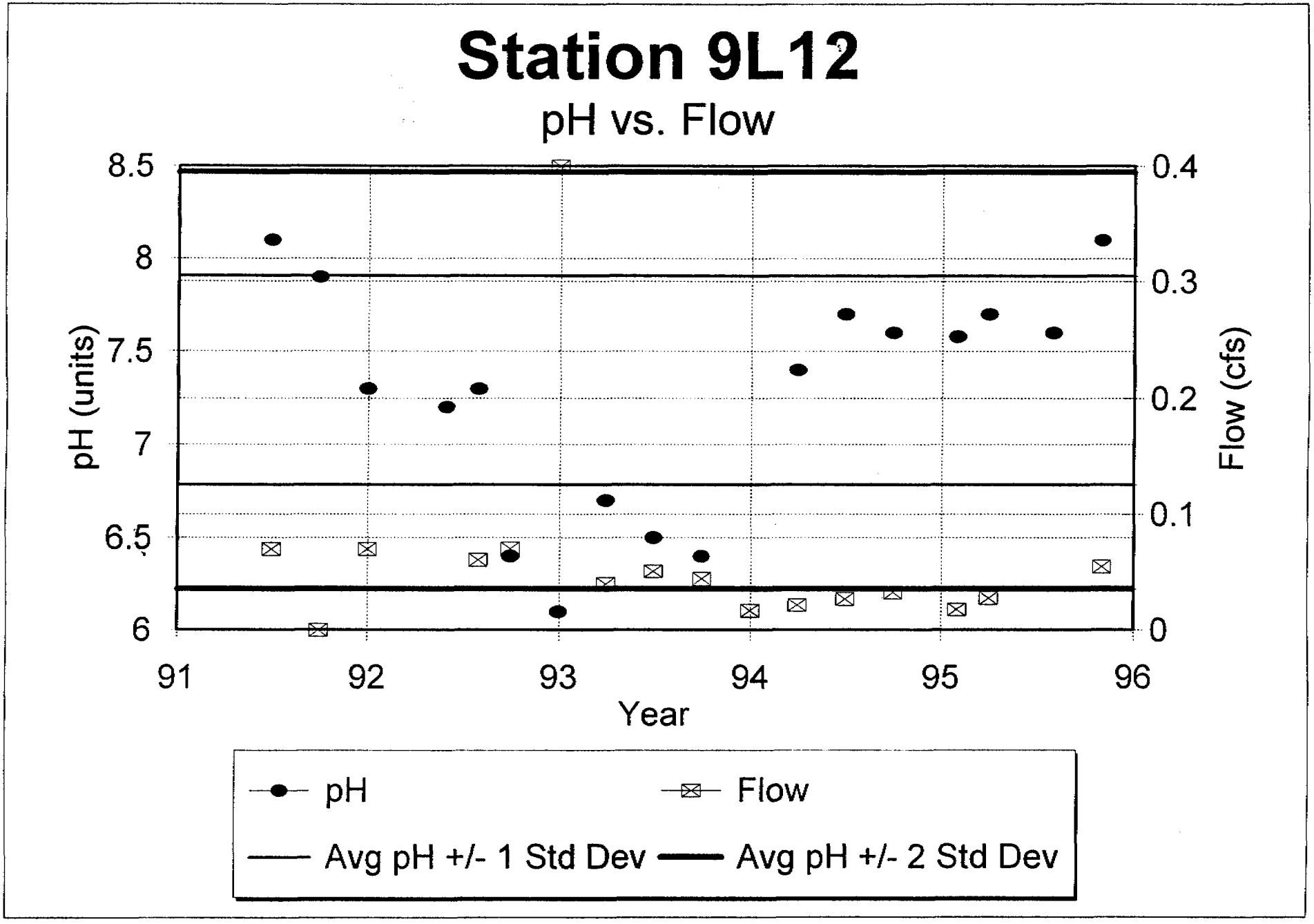
Print Date: April 26, 1996

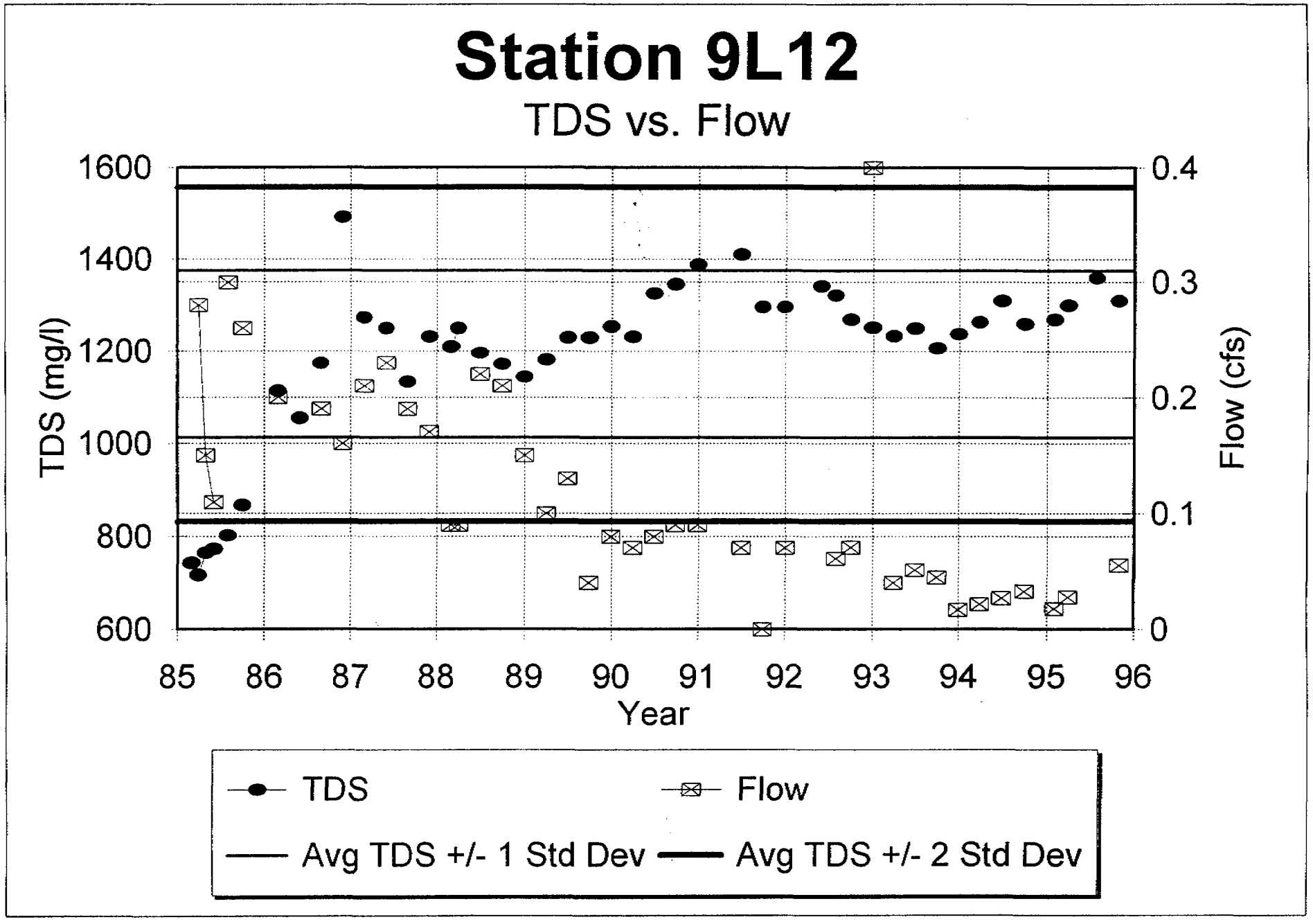
Station: 9L12 | Property: Star Point | Location: 1625' S 500' W of NE corn. Sec 13, T15S, R7E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: about 8470

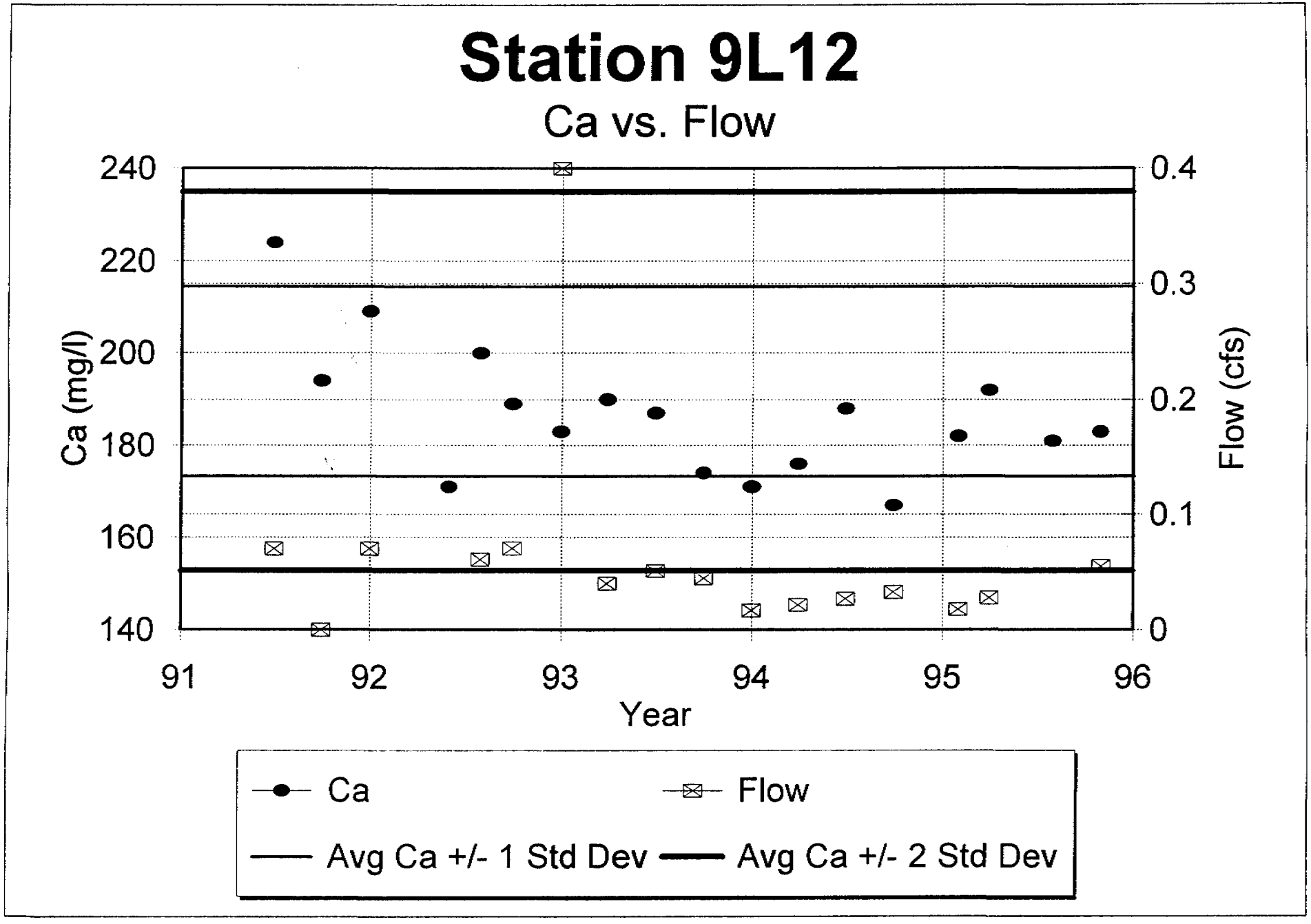
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Avg. -2 Std. Dev.		-0.061	6.2225	723.63	6.6687	831.93 <	2	ERR	850.95	211.64	-7.135	2.3384	670.35	152.82	98.705	9.8311	-0.748	-4.818 <	0.0068 <	-0.000 <	0.0017	
Avg. +2 Std. Dev.		0.3001	8.4666	2156.9	11.712	1556.7 <	2	ERR	1068	379.54	10.602	6.3573	821.56	234.92	132.77	13.465	16.296	-2.532 <	0.028 <	0.0404 <	0.0164	

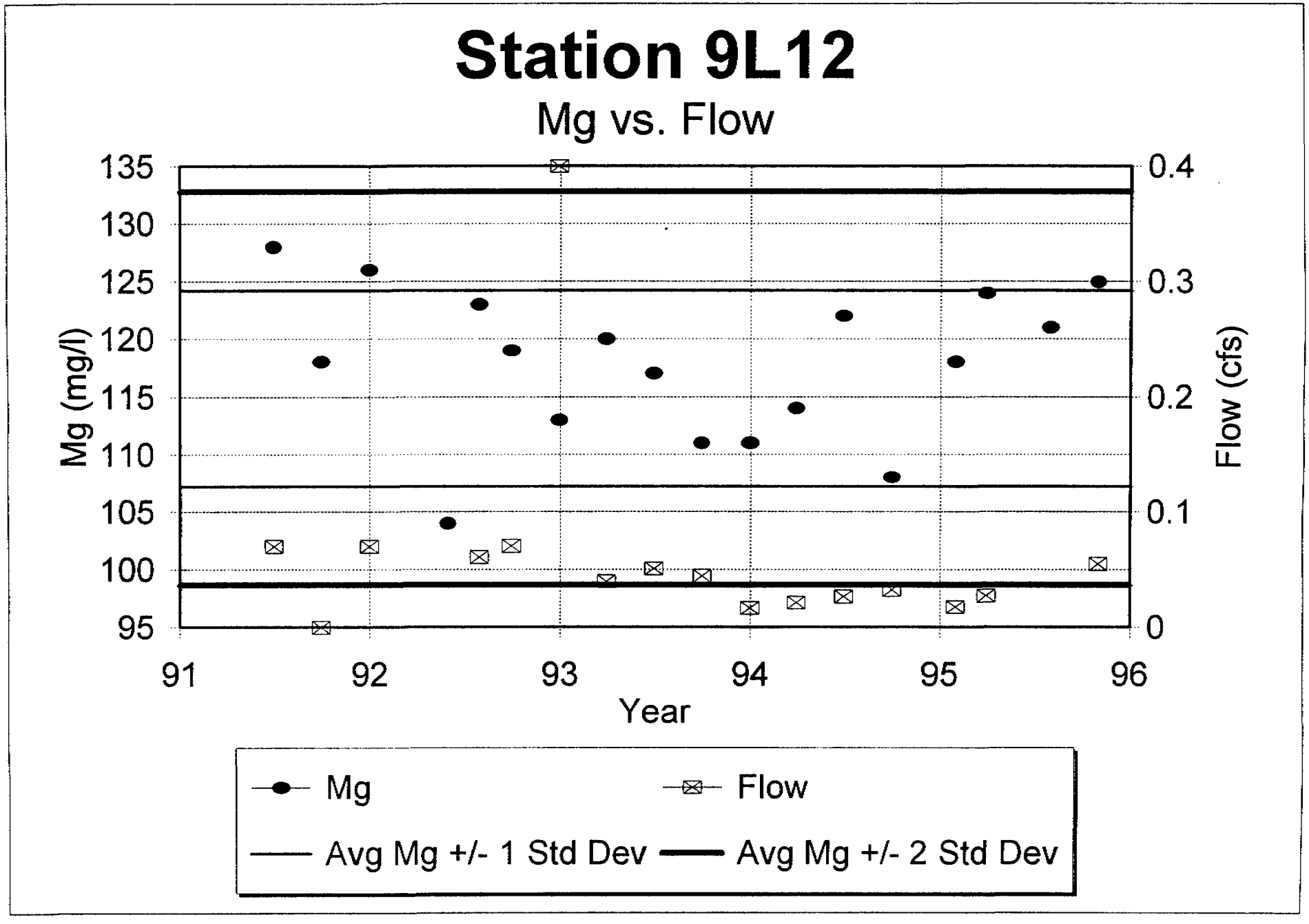
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

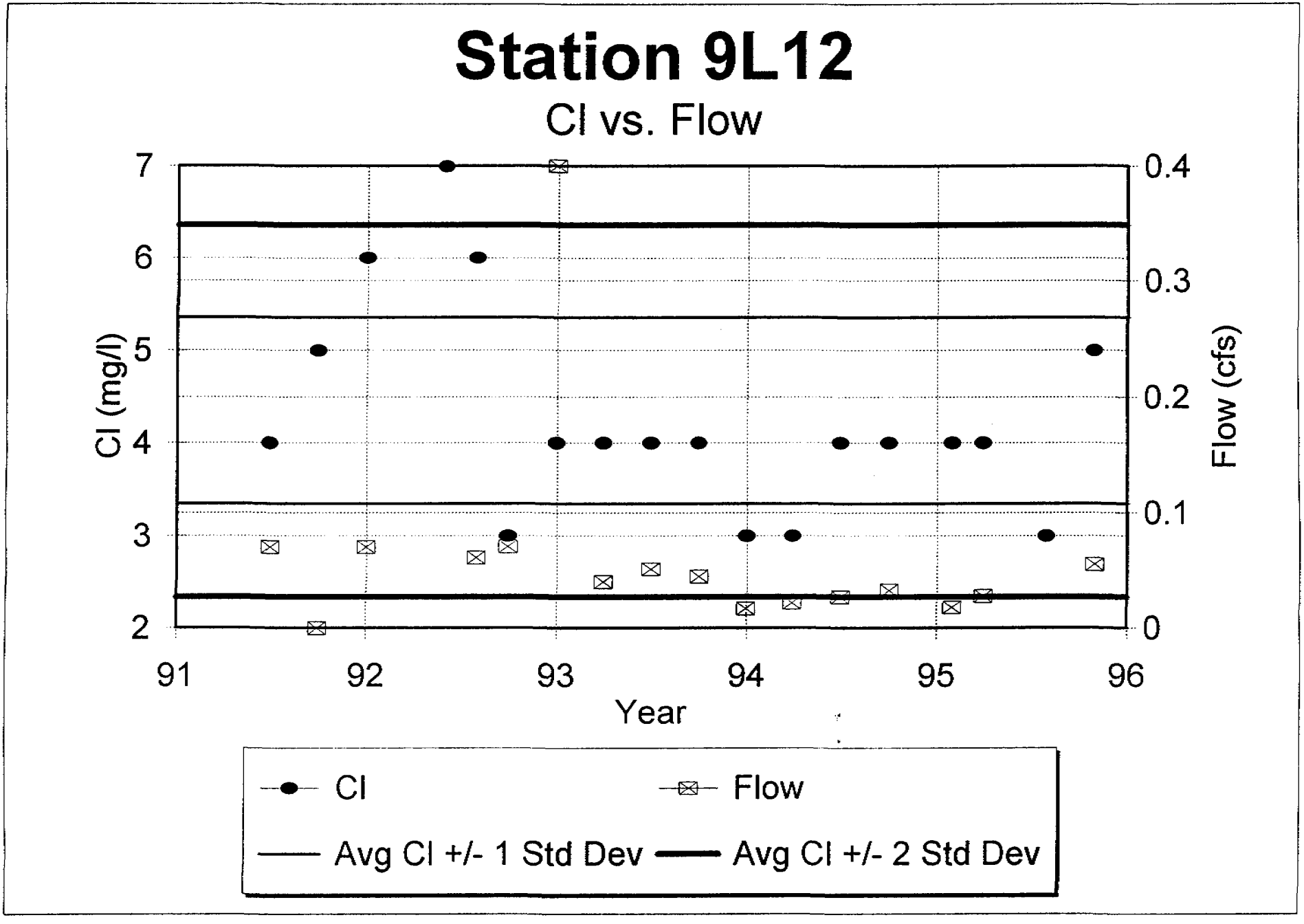

Station 9L12
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
3
3.5
Flow (cfs)
0.4
0.3
0.2
0.1
0
Jan-85
Dec-86
Nov-88
Oct-90
Sep-92
Aug-94
Year
Monthly Precipitation
Flow

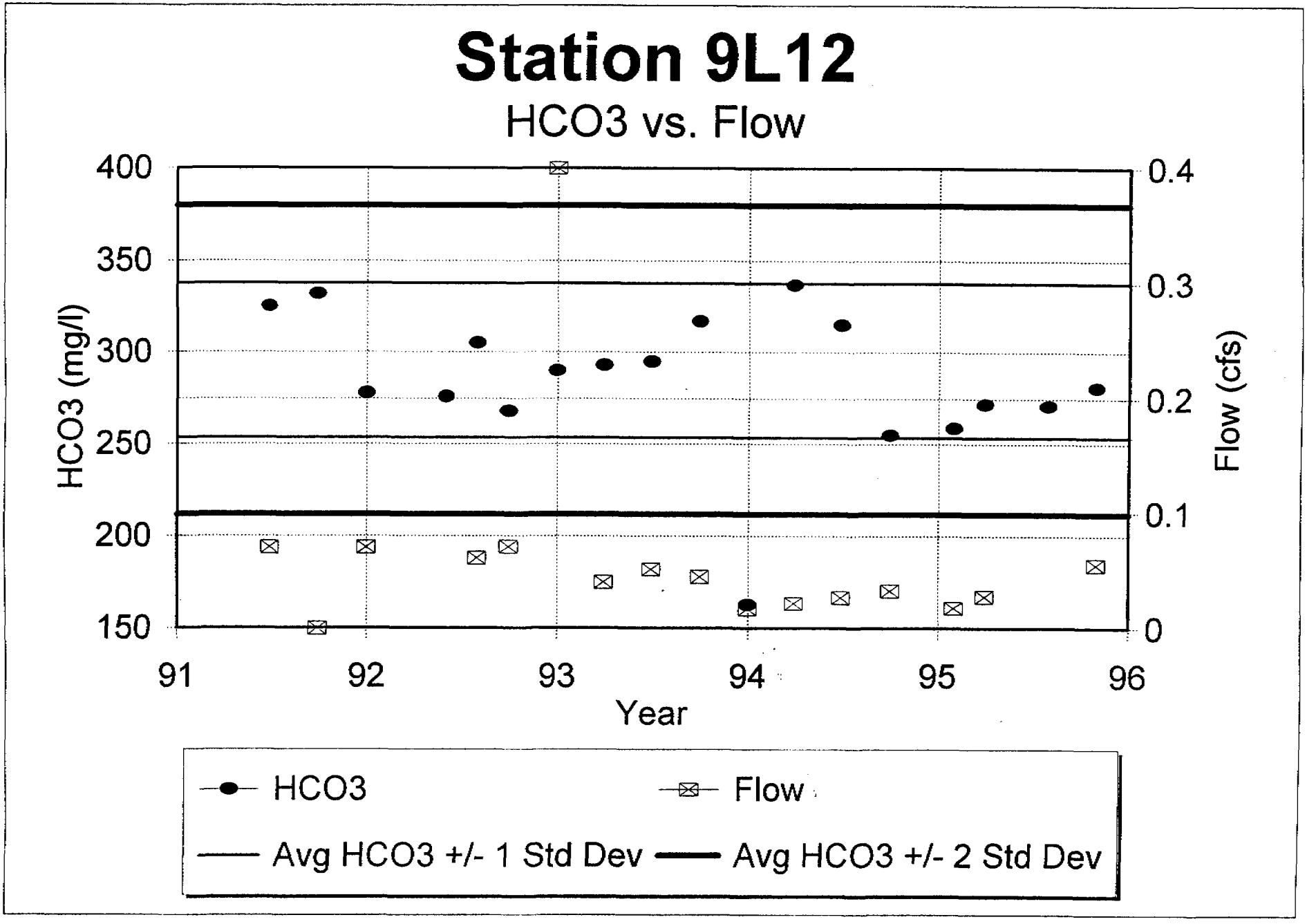

Station 9L12
pH vs. Flow
8.5
8
7.5
7
6.5
6
pH (units)
0.4
0.3
0.2
0.1
0
Flow (cfs)
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

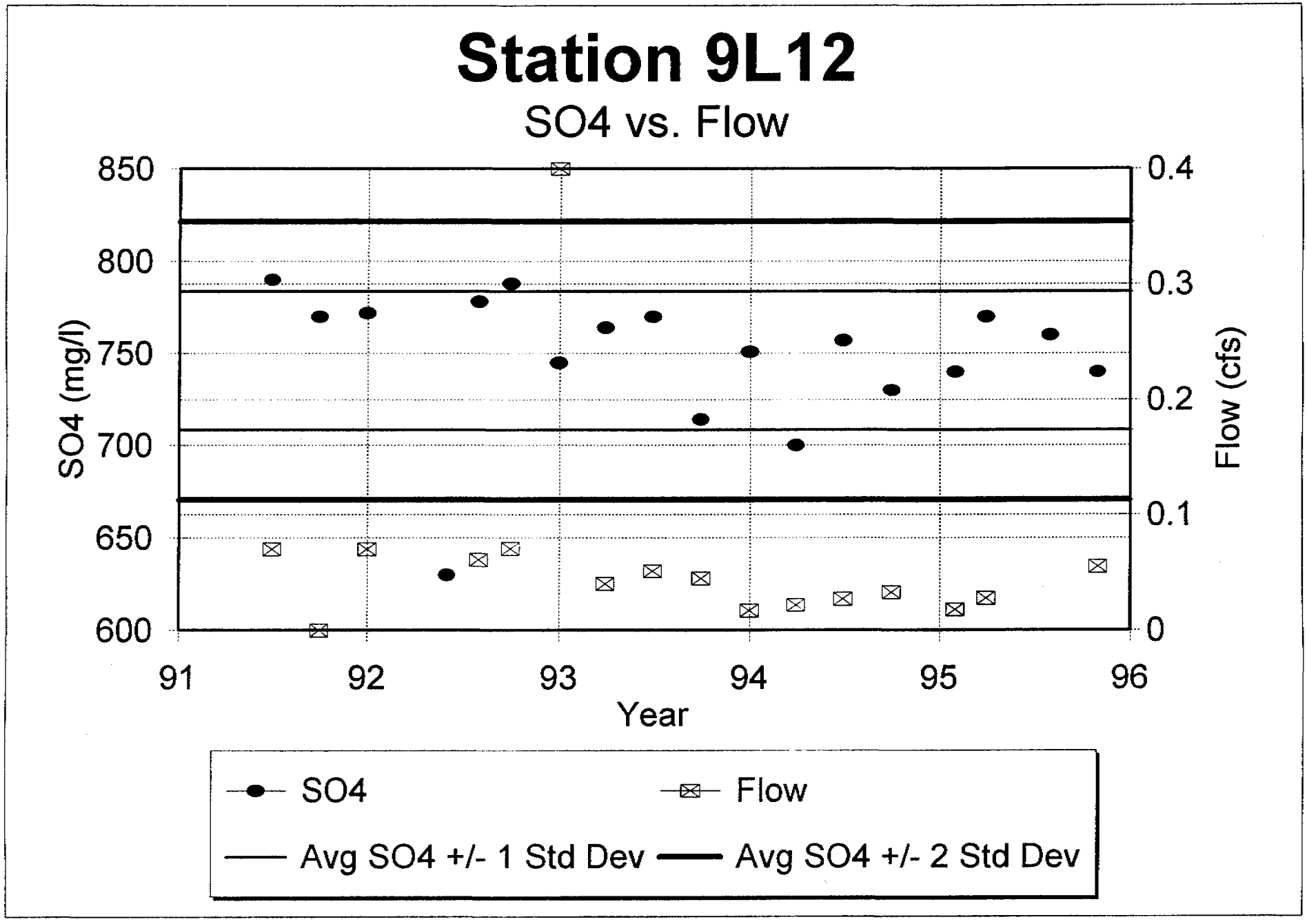

Station 9L12
TDS vs. Flow
TDS (mg/l)
1600
1400
1200
1000
800
600
Flow (cfs)
0.4
0.3
0.2
0.1
0
85
86
87
88
89
90
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station 9L12
Ca vs. Flow
240
220
200
180
160
140
Ca (mg/l)
0.4
0.3
0.2
0.1
0
Flow (cfs)
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station 9L12
Mg vs. Flow
135
130
125
120
115
110
105
100
95
Mg (mg/l)
0.4
0.3
0.2
0.1
0
Flow (cfs)
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station 9L12
Cl vs. Flow
Cl (mg/l)
7
6
5
4
3
2
0.4
0.3
0.2
0.1
0
Flow (cfs)
91
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station 9L12
HCO3 vs. Flow
400
350
300
250
200
150
HCO3 (mg/l)
0.4
0.3
0.2
0.1
0
Flow (cfs)
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station 9L12
SO4 vs. Flow
850
800
750
700
650
600
SO4 (mg/l)
0.4
0.3
0.2
0.1
0
Flow (cfs)
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

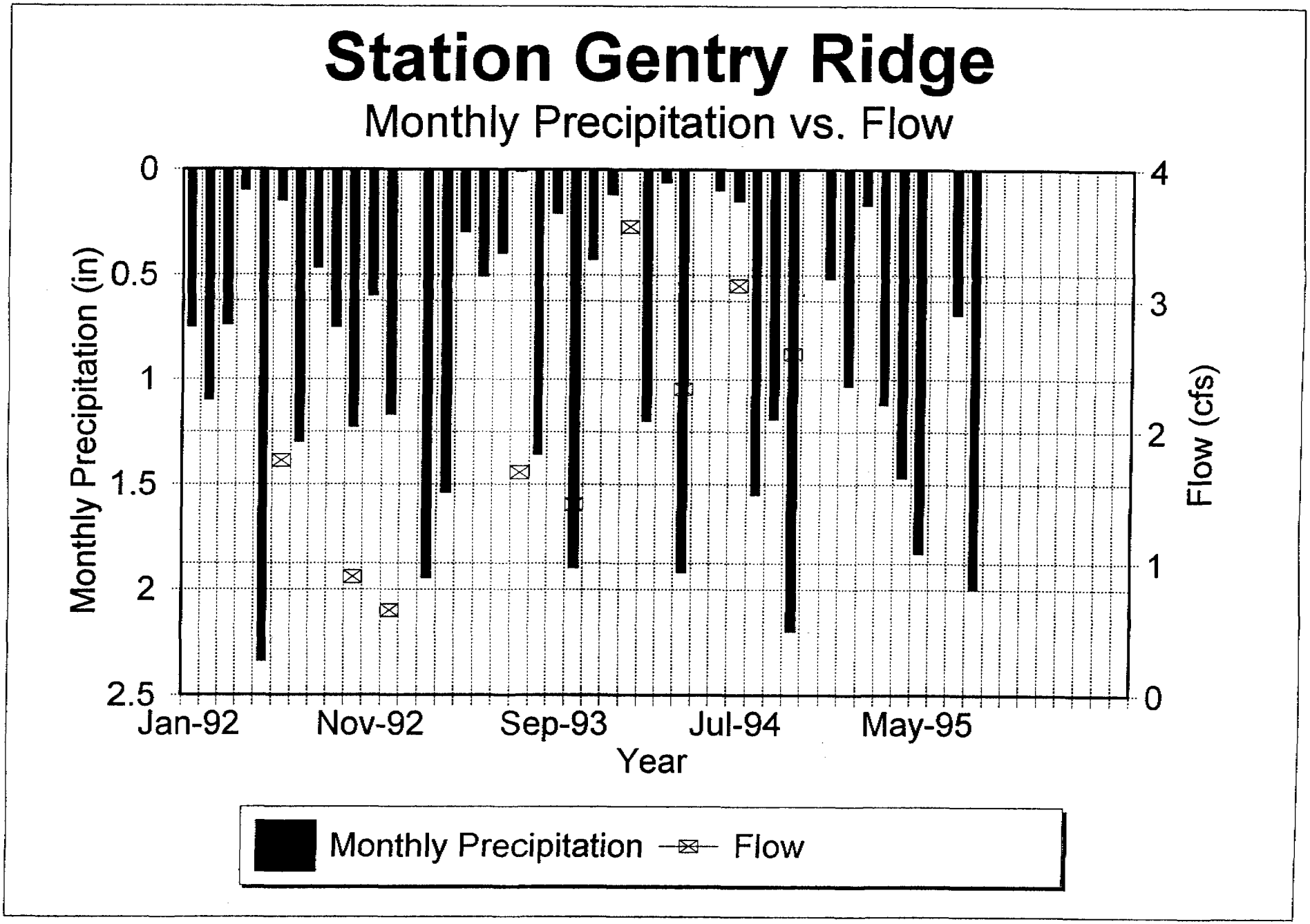
Cyprus Plateau Mining Company - Water Quality Data

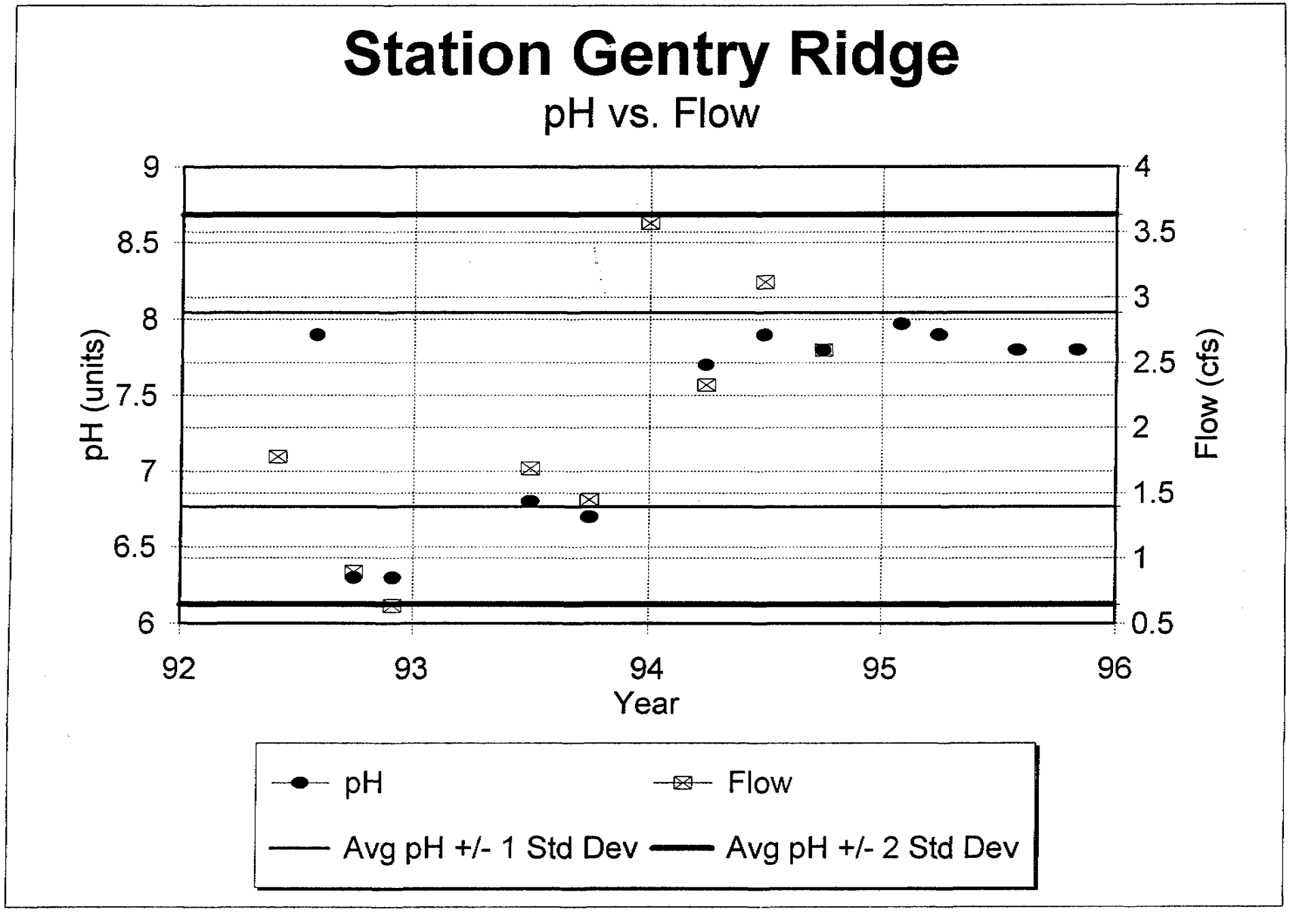
Station: GENTRID | Property: Star Point | Location: 440' N 1125' E of SW corn. Sec 7, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Print Date: May 6, 1996 | Elevation: About 8400

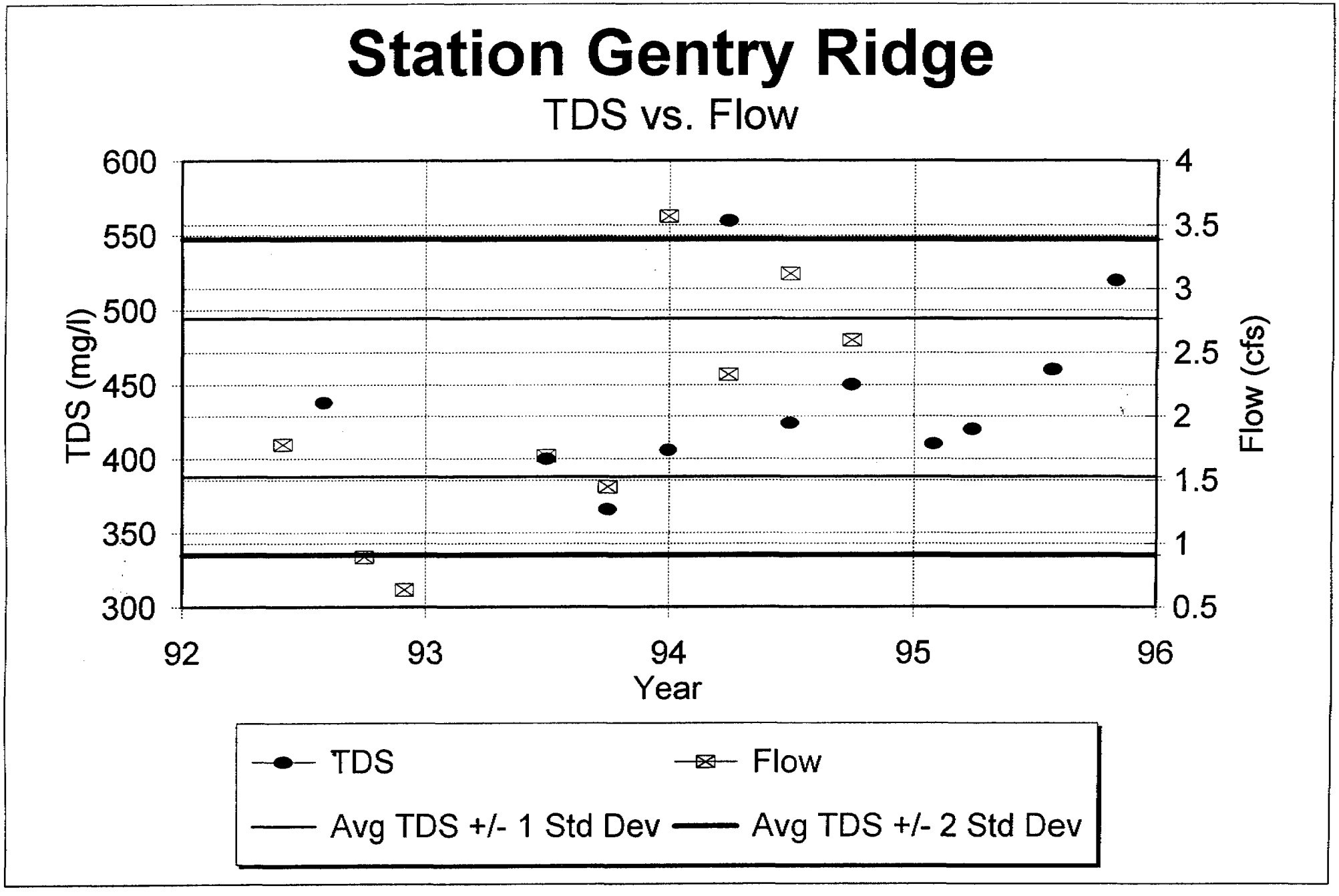
Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-92																							
Feb-92																							
Mar-92																							
Apr-92																							
May-92																							
Jun-92	06/01/92	1.78																					
Jul-92																							
Aug-92	08/31/92		7.9	1370	6.9	438 <	2		402	315	0	4	105	95	40	2	9		0.0003		0		
Sep-92																							
Oct-92	10/31/92	0.894	6.3	800	8.4				405	296	4	1	78	98	39	2	3		0.0001		0		
Nov-92																							
Dec-92	12/27/92	0.64	6.3	6.3	8.8				418	314	0	4	142	100	41	4	6		0.0001		0.1		
Jan-93	*																						
Feb-93																							
Mar-93																							
Apr-93	*																						
May-93																							
Jun-93																							
Jul-93	07/21/93	1.69	6.8	663	8.5	400			381	364	0	3	78	90	38	3	3	<	0.02	0.32	0.01		
Aug-93																							
Sep-93																							
Oct-93	10/19/93	1.448	6.7	635	8.5	366			365		0	3	82	87	36	2	4		0.04	0.05 <	0.01		
Nov-93																							
Dec-93																							
Jan-94	01/26/94	3.565				406			350	364	0	4	93	81	36	3	6		0.04	0.31	0.02		
Feb-94																							
Mar-94																							
Apr-94	04/25/94	2.328	7.7	935	10	560	4		449	390	0	5	177	104	46	5	6		0.19	0.38	0.04		
May-94																							
Jun-94																							
Jul-94	07/20/94	3.12	7.9	695	10.1	424			347	305	10	5	109	83	34	3	4		0.11	0.13	0.01		
Aug-94																							
Sep-94																							
Oct-94	10/27/94	2.6	7.8	689	10	450			364	278	0	4	130	83	38	4.1	4.7		0.09	0.13	0.01		
Nov-94																							
Dec-94																							
Jan-95																							
Feb-95	02/27/95		7.97	688	10.11	410	140		385	273 <	2	4	120	88.3	40	3.7	4.6	-0.6	0.02	1.24	0.048		
Mar-95																							
Apr-95	04/26/95		7.9	635	13	420			406	308 <	2	4	110	94	41.5	4.3	6.1	-0.6	0.02	0.17	0.024		
May-95																							
Jun-95																							
Jul-95																							
Aug-95	08/24/95		7.8	627	13	460			398	307 <	2	10	90	94.9	39.1	3.1	4.8	-0.4	0.06	0.44	0.038		
Sep-95																							
Oct-95																							
Nov-95	11/28/95		7.8	813		520			439	278 <	2	4	160	101	45.4	6.2	9.1	1.7	0.11	0.25	0.041		
Dec-95																							
Jan-96																							
END DATA																							
Count		9	12	12	11	11	3	0	13	12	13	13	13	13	13	13	13	4	13	10	13		
Minimum		0.64	6.3	6.3	6.9	366 <	2	ERR	347	273 <	0	1	78	81	34	2	3	-0.6 <	0.0001	0.05 <	0		
Maximum		3.565	7.97	1370	13	560 <	140	ERR	449	390 <	10	10	177	104	46	6.2	9.1	1.7 <	0.19	1.24 <	0.1		
Average		2.0072	7.4058	713.03	9.7555	441.27 <	48.667	ERR	393	316 <	1.6923	4.2308	113.38	92.246	39.538	3.4923	5.4077	0.025 <	0.0539	0.342 <	0.027		
Standard Deviation		0.9245	0.64	291.76	1.7958	53.15 <	64.588	ERR	30.501	35.93 <	2.7	1.9277	30.269	7.1861	3.3218	1.1926	1.8636	0.9705 <	0.0545	0.3213 <	0.0262		
Avg. -1 Std. Dev.		1.0827	6.7659	421.26	7.9596	388.12 <	-15.92	ERR	362.5	280.07 <	-1.008	2.3031	83.115	85.06	36.217	2.2997	3.5441	-0.946 <	-0.001	0.0207 <	0.0008		
Avg. +1 Std. Dev.		2.9318	8.0458	1004.8	11.551	494.42 <	113.25	ERR	423.5	351.93 <	4.3923	6.1585	143.65	99.432	42.86	4.6849	7.2713	0.9955 <	0.1084	0.6633 <	0.0532		
Avg. -2 Std. Dev.		0.1582	6.1259	129.5	6.1638	334.97 <	-80.51	ERR	332	244.14 <	-3.708	0.3754	52.846	77.874	32.895	1.1071	1.6805	-1.916 <	-0.055	-0.301 <	-0.025		
Avg. +2 Std. Dev.		3.8563	8.6857	1296.6	13.347	547.57 <	177.84	ERR	454	387.86 <	7.0923	8.0861	173.92	106.62	46.182	5.8775	9.1349	1.966 <	0.1629	0.9845 <	0.0794		

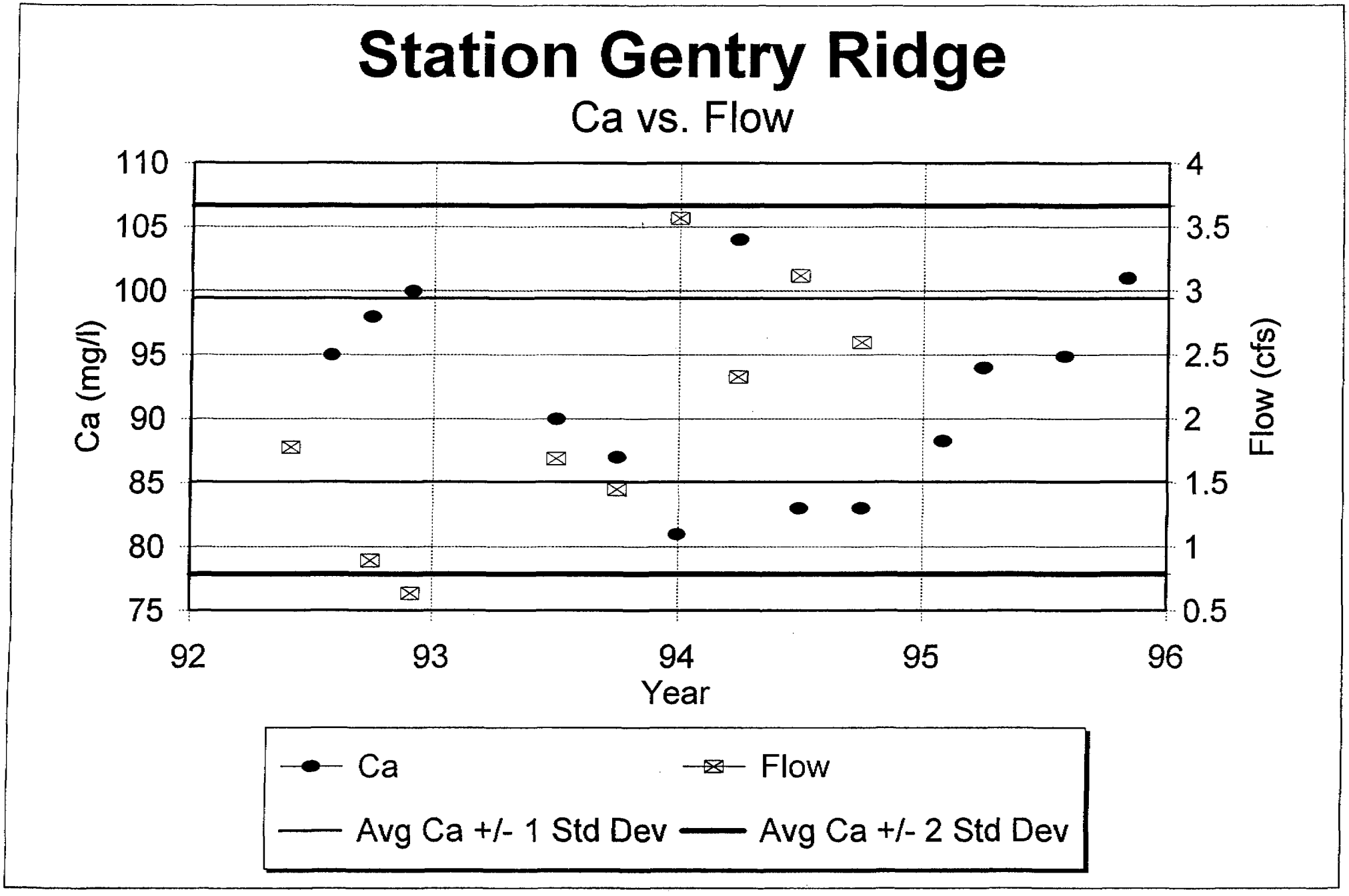
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

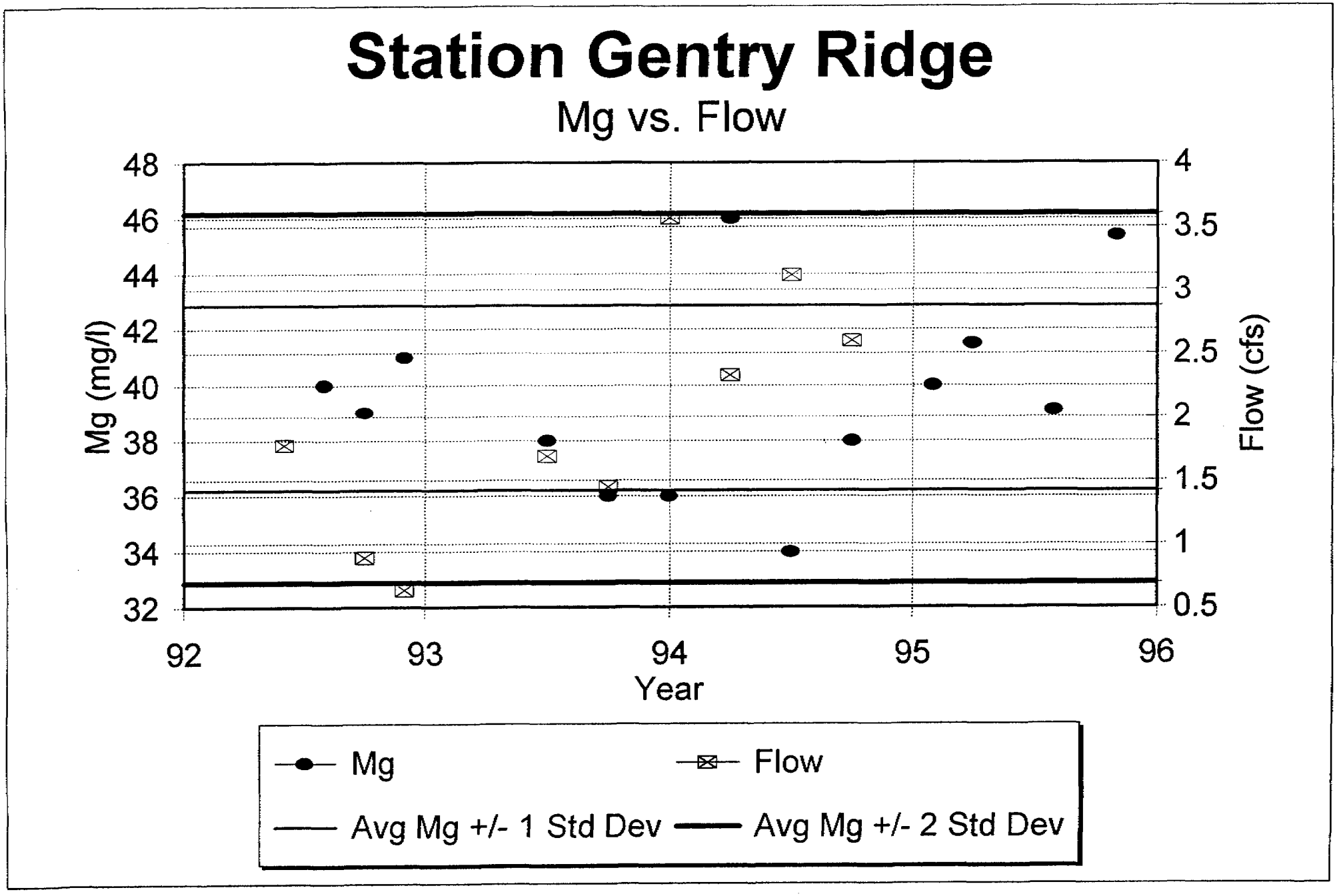
* Measurements taken for this month are extremely anomalous and judged to be in error and were not included in this table. See previous reports for actual data.

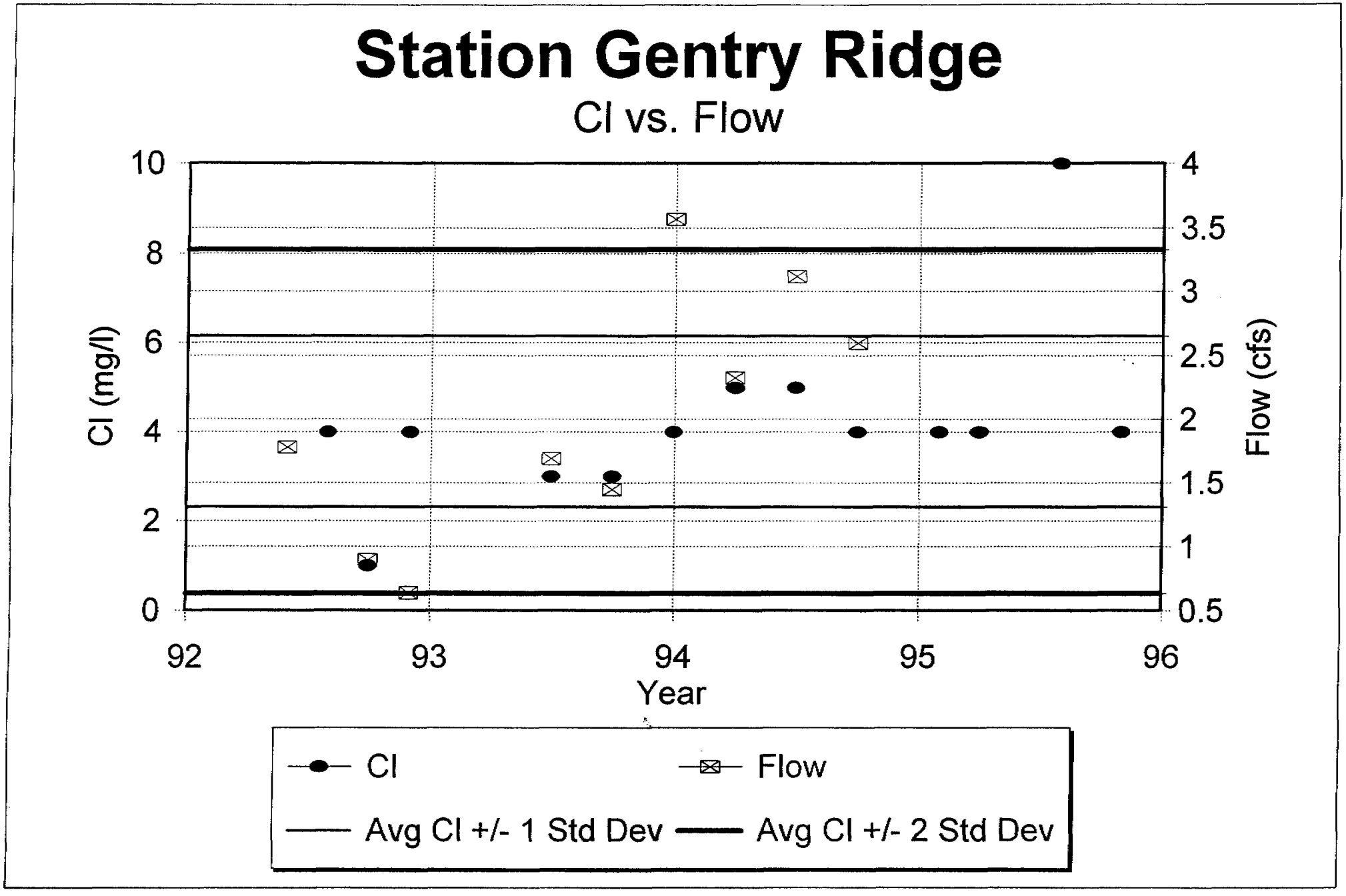

Station Gentry Ridge
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
Flow (cfs)
4
3
2
1
0
Jan-92
Nov-92
Sep-93
Jul-94
May-95
Year
Monthly Precipitation
Flow

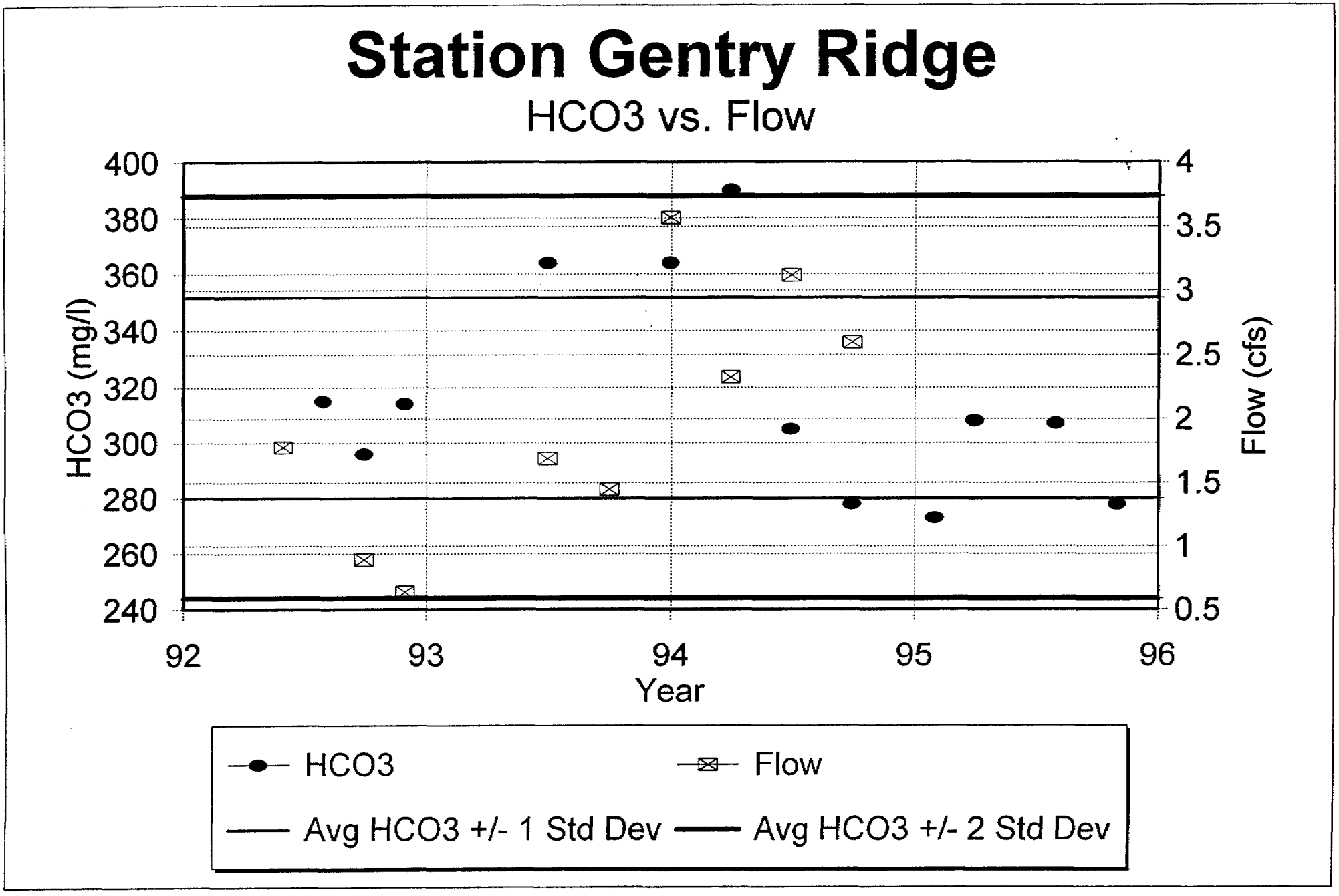

Station Gentry Ridge
pH vs. Flow
pH (units)
9
8.5
8
7.5
7
6.5
6
Flow (cfs)
4
3.5
3
2.5
2
1.5
1
0.5
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

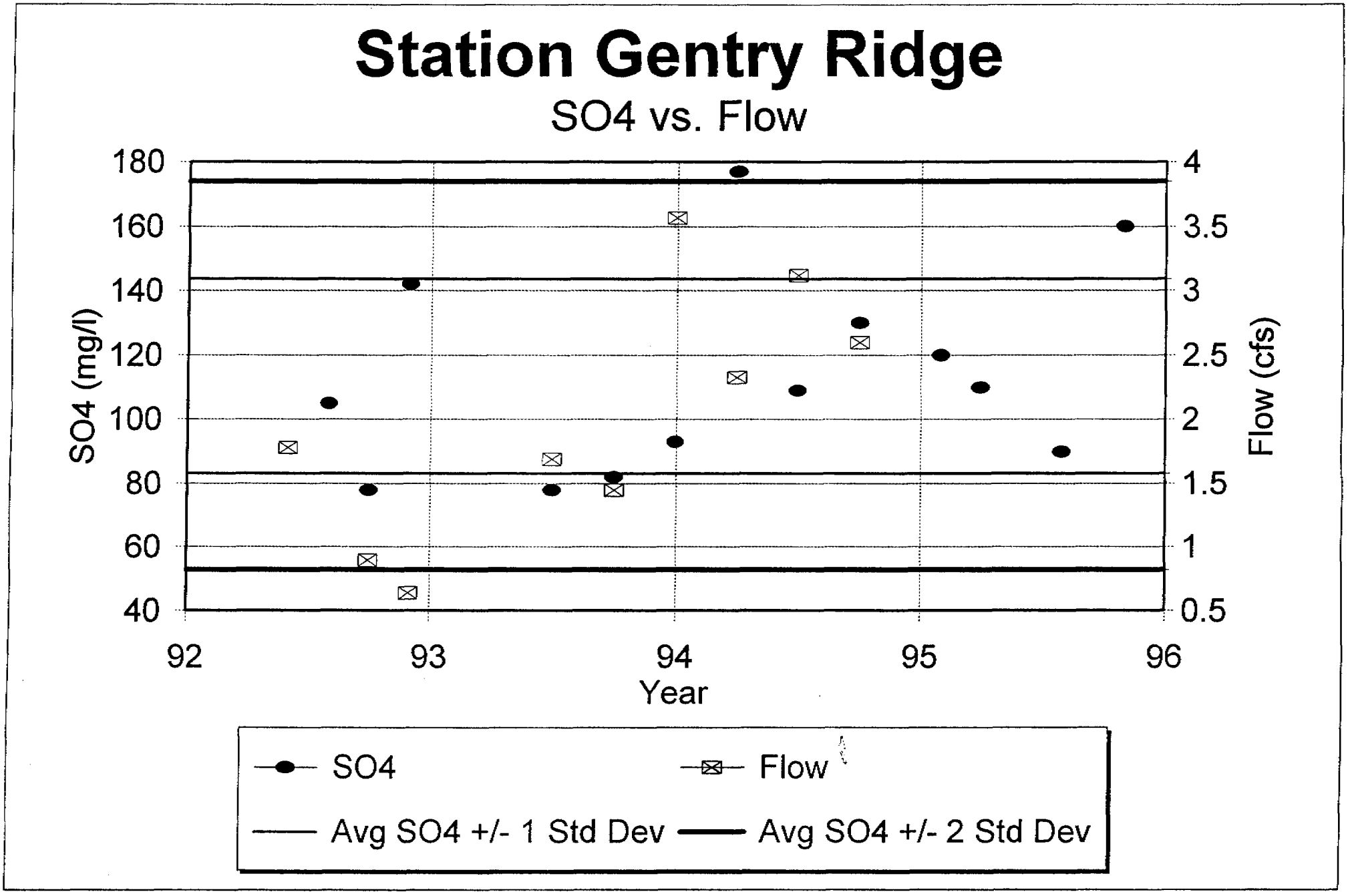

Station Gentry Ridge
TDS vs. Flow
600
550
500
450
400
350
300
TDS (mg/l)
4
3.5
3
2.5
2
1.5
1
0.5
Flow (cfs)
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station Gentry Ridge
Ca vs. Flow
Ca (mg/l)
110
105
100
95
90
85
80
75
Flow (cfs)
4
3.5
3
2.5
2
1.5
1
0.5
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station Gentry Ridge
Mg vs. Flow
Mg (mg/l)
48
46
44
42
40
38
36
34
32
Flow (cfs)
4
3.5
3
2.5
2
1.5
1
0.5
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station Gentry Ridge
Cl vs. Flow
Cl (mg/l)
10
8
6
4
2
0
Flow (cfs)
4
3.5
3
2.5
2
1.5
1
0.5
92
93
94
95
96
Year
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station Gentry Ridge
HCO3 vs. Flow
HCO3 (mg/l)
400
380
360
340
320
300
280
260
240
Flow (cfs)
4
3.5
3
2.5
2
1.5
1
0.5
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station Gentry Ridge
SO4 vs. Flow
SO4 (mg/l)
180
160
140
120
100
80
60
40
Flow (cfs)
4
3.5
3
2.5
2
1.5
1
0.5
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 26, 1996

Station: NSMUD | Property: Star Point | Location: 1625' S 2000' W of NE corn. Sec 8, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: 8600

Date		Field Measurements				Laboratory Measurements																	
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-83																						
Feb-83																						
Mar-83																						
Apr-83																						
May-83																						
Jun-83	06/27/83		8.2			613	19													0.82		
Jul-83																						
Aug-83																						
Sep-83																						
Oct-83																						
Nov-83																						
Dec-83																						
Jan-84																						
Feb-84																						
Mar-84																						
Apr-84																						
May-84	05/30/84		7.5			372	5.5													0.37	0.02	
Jun-84	06/05/84		7.8			366	3													0.14 <	0.01	
Jul-84																						
Aug-84	08/21/84		8			639	8													0.06 <	0.01	
Sep-84																						
Oct-84	10/18/84		7.9			582	2													0.14 <	0.01	
Nov-84																						
Dec-84																						
Jan-85																						
Feb-85																						
Mar-85	03/22/85		7.8			686	5													0.09	0.02	
Apr-85	04/02/85		7.7			669	3													0.15 <	0.01	
May-85	05/07/85		7.8			667	1													0.2 <	0.01	
Jun-85	06/27/85		7.4			598	4													0.32	0.03	
Jul-85	07/24/85		7.3			646	6													0.26 <	0.01	
Aug-85	08/23/85		7.1			738	6													0.08 <	0.01	
Sep-85																						
Oct-85	10/31/85		7.1			772	4													0.06 <	0.01	
Nov-85																						
Dec-85																						
Jan-86	01/22/86	0.45	7.6			785	4													0.05	0.01	
Feb-86																						
Mar-86	03/27/86	0.45	7.1			977	4												<	0.05	0.01	
Apr-86	04/30/86	0.45	7.3			891	3												<	0.05		
May-86	05/27/86	0.45	7.3			663														0.05		
Jun-86																						
Jul-86																						
Aug-86	08/07/86	1.11	7.5			837 <	0.5												<	0.05 <	0.01	
Sep-86																						
Oct-86	10/13/86	0.45	7			1053 <	0.5												<	0.05 <	0.01	
Nov-86																						
Dec-86	12/10/86	0.45	7.6			1140 <	5													0.1		
Jan-87	01/29/87	0.45	7.5			1144 <	2													0.12		
Feb-87	02/24/87	0.45	7.5			1056 <	5													0.1		
Mar-87	03/18/87	0.45	7.8	1450		977				322		6	540	147	109	10	7		0.09	0.22	0.01	
Apr-87	04/30/87	0.45	7.7			1128													<	0.05		
May-87	05/19/87	0.45	7.4			1330	4													0.05		
Jun-87	06/06/87	0.45	7.4			1194	2													0.03		
Jul-87	07/28/86	0.45	7.6			1122	6												<	0.02		
Aug-87	08/12/86	0.45	7.3			1192 <	2													0.03		
Sep-87	09/25/87	0.45	7.8			1058	8													0.13		
Oct-87																						
Nov-87																						
Dec-87	12/16/87																					
Jan-88																						
Feb-88																						
Mar-88	03/23/88																					
Apr-88	04/15/88																					
May-88																						
Jun-88																						
Jul-88	07/27/88																					
Aug-88																						
Sep-88																						
Oct-88	10/27/88																					
Nov-88																						
Dec-88																						

Cyprus Plateau Mining Company - Water Quality Data

Print Date: April 26, 1996

Station: NSMUD | Property: Star Point | Location: 1625' S 2000' W of NE corn. Sec 8, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Elevation: 8600

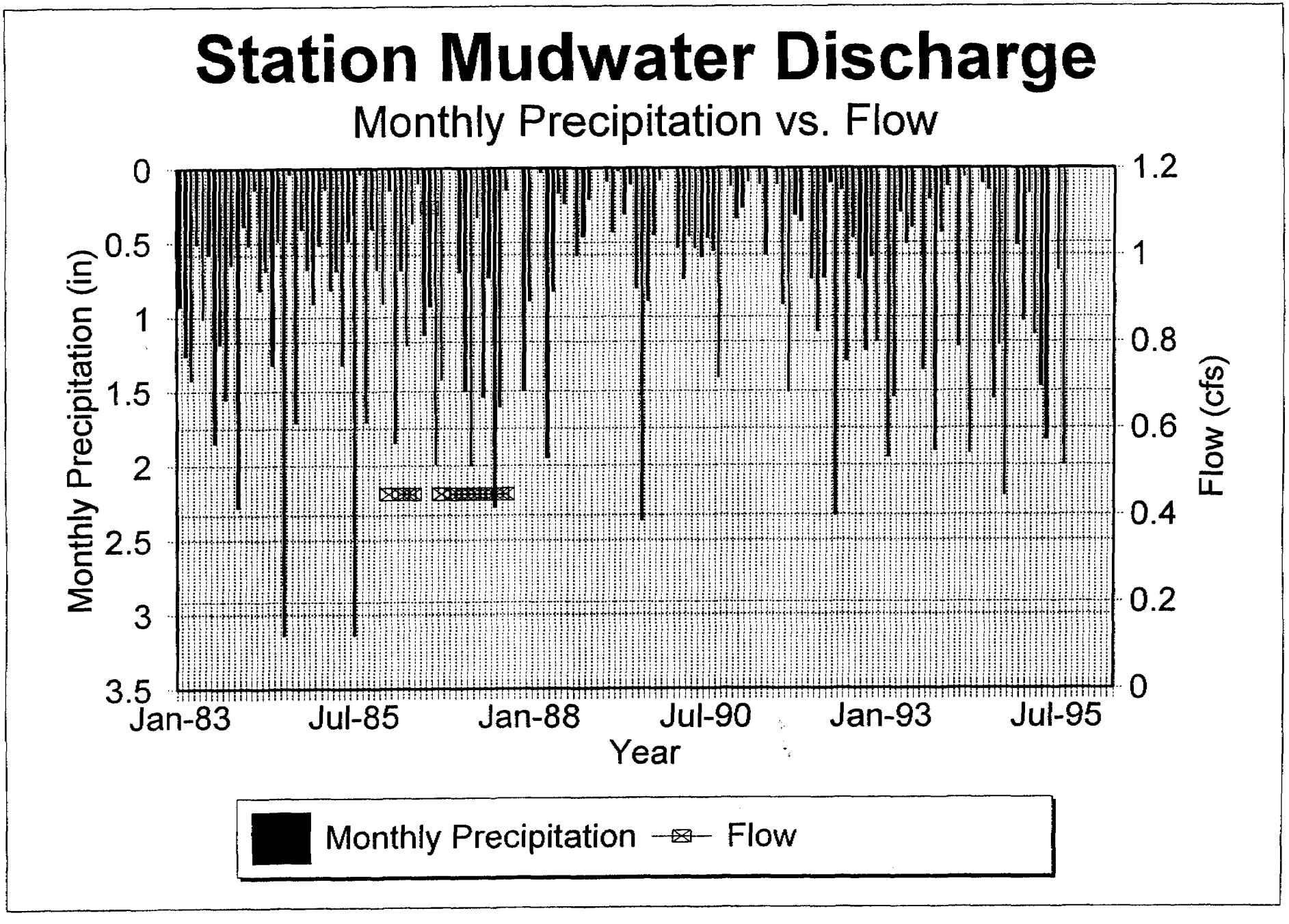
Date		Field Measurements				Laboratory Measurements																
Mo-Yr	Sample Date	Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-89	01/25/89																					
Feb-89																						
Mar-89																						
Apr-89	04/28/89																					
May-89																						
Jun-89																						
Jul-89	07/12/89																					
Aug-89																						
Sep-89																						
Oct-89	10/25/89																					
Nov-89																						
Dec-89																						
Jan-90	01/16/90																					
Feb-90																						
Mar-90																						
Apr-90	04/18/90																					
May-90																						
Jun-90																						
Jul-90	07/02/90																					
Aug-90																						
Sep-90																						
Oct-90	10/24/90																					
Nov-90																						
Dec-90																						
Jan-91																						
Feb-91																						
Mar-91																						
Apr-91																						
May-91																						
Jun-91																						
Jul-91																						
Aug-91																						
Sep-91																						
Oct-91																						
Nov-91																						
Dec-91																						
Jan-92																						
Feb-92																						
Mar-92																						
Apr-92																						
May-92																						
Jun-92	06/01/92																					
Jul-92																						
Aug-92	08/31/92																					
Sep-92																						
Oct-92	10/31/92																					
Nov-92																						
Dec-92	12/27/92																					
Jan-93	01/27/93																					
Feb-93																						
Mar-93																						
Apr-93	04/30/93																					
May-93																						
Jun-93																						
Jul-93	07/21/93																					
Aug-93																						
Sep-93																						
Oct-93	10/19/93																					
Nov-93																						
Dec-93																						
Jan-94	01/26/94																					
Feb-94																						
Mar-94																						
Apr-94	04/25/94																					
May-94																						
Jun-94																						
Jul-94	07/20/94																					
Aug-94																						
Sep-94																						
Oct-94	10/27/94																					
Nov-94																						
Dec-94																						

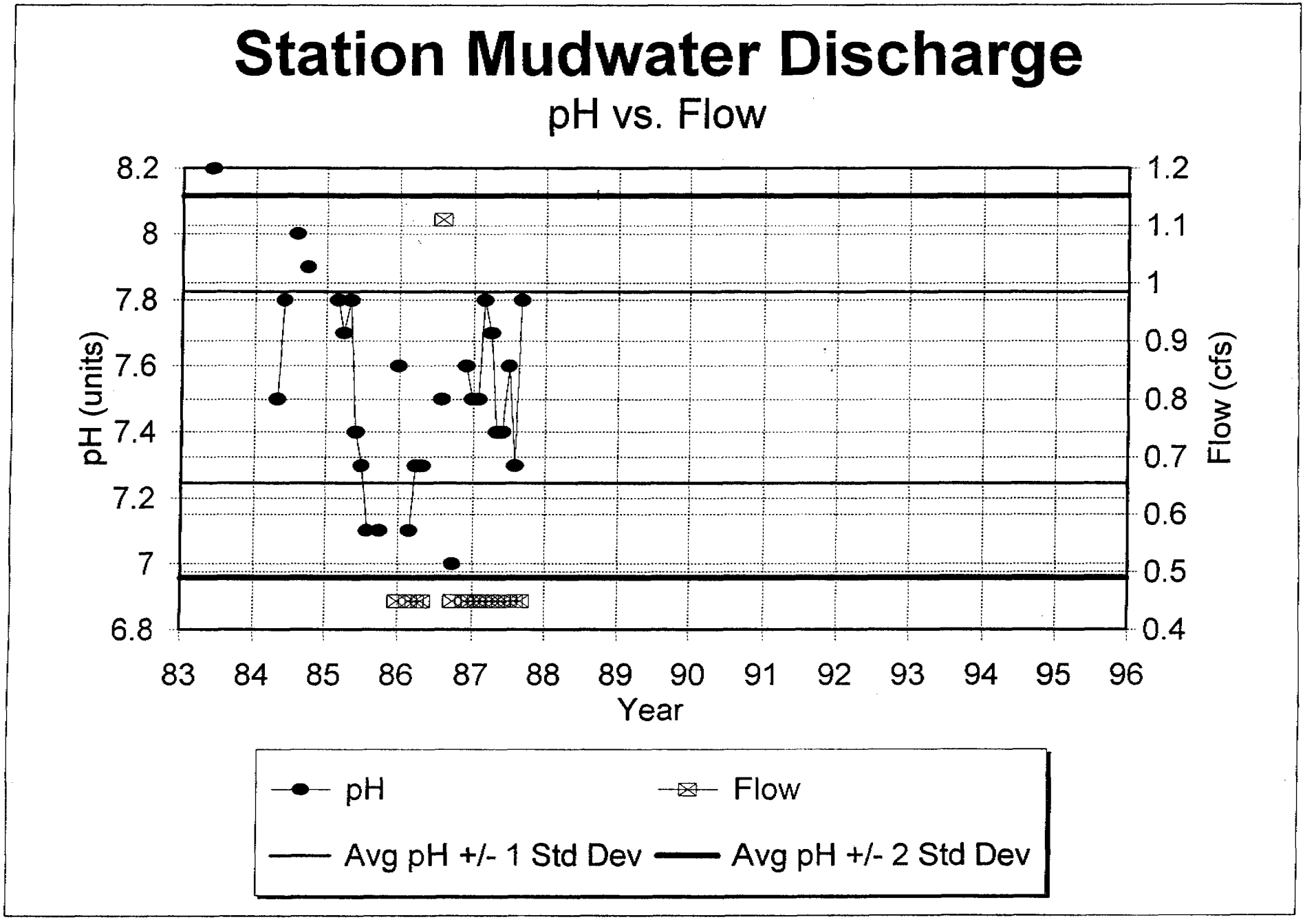
Cyprus Plateau Mining Company - Water Quality Data

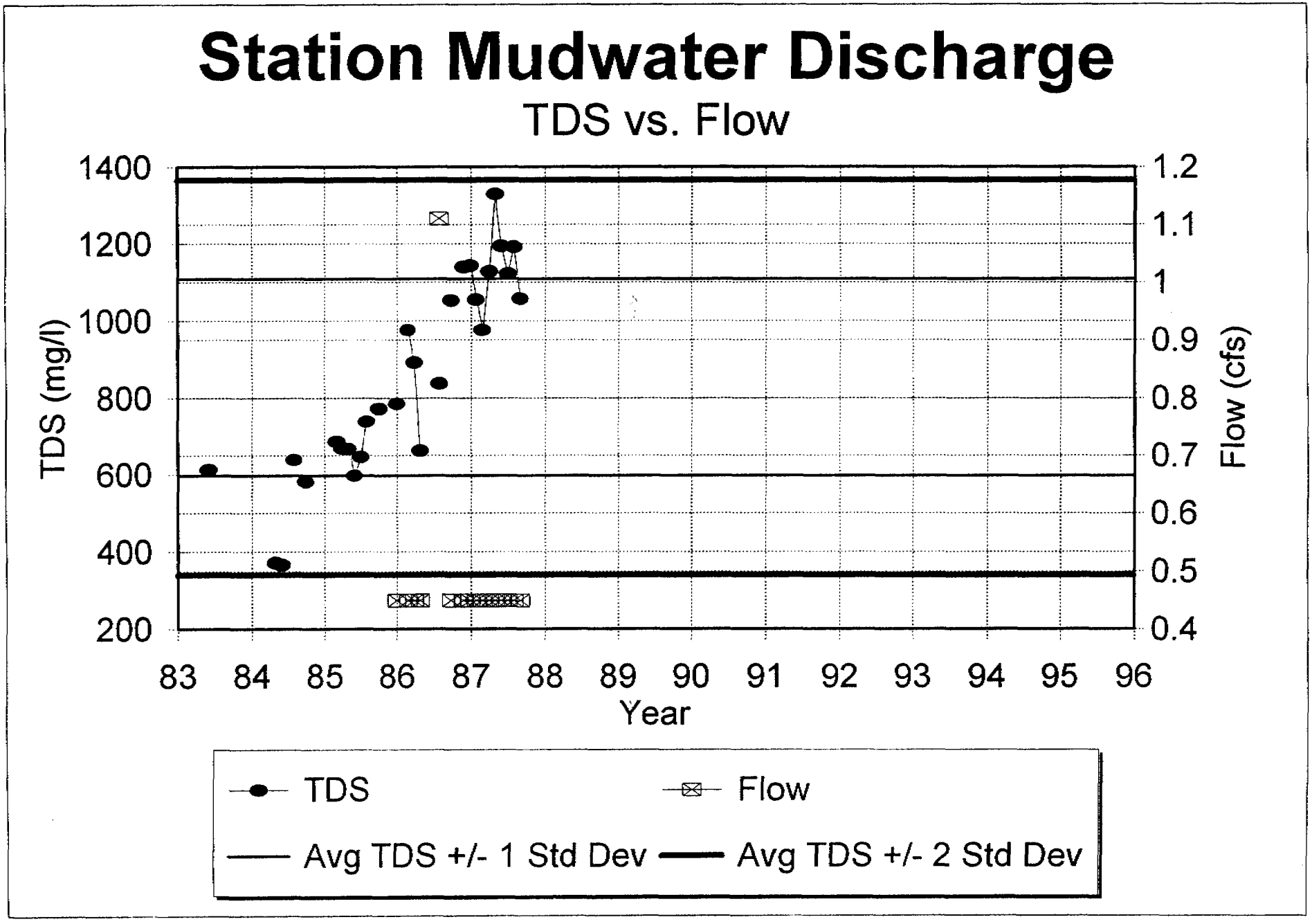
Station: NSMUD | Property: Star Point | Location: 1625' S 2000' W of NE corn. Sec 8, T15S, R8E | Station Type: Mine | Sampling Frequency: Quarterly | Formation: | Print Date: May 6, 1996 | Elevation: 8500

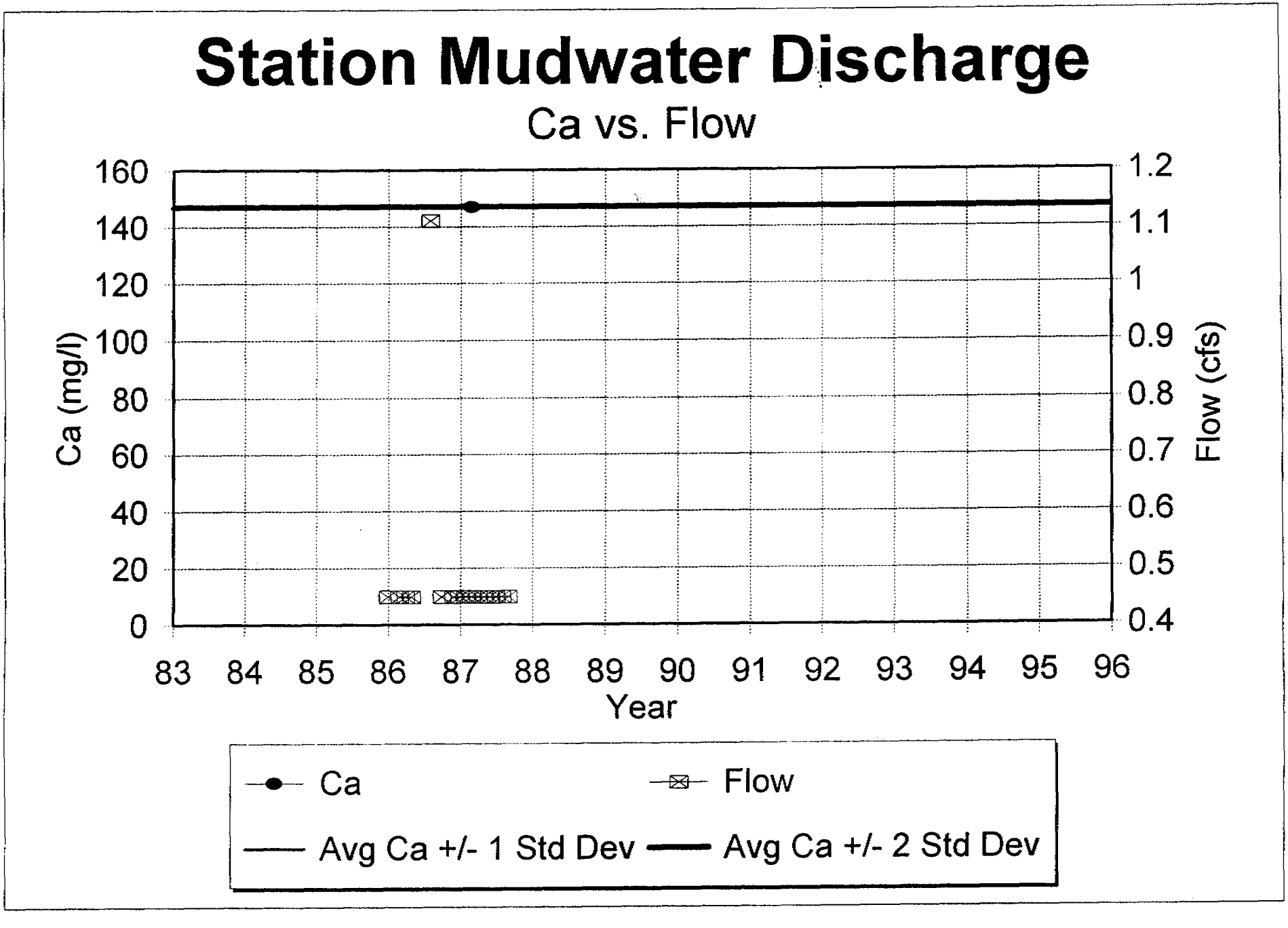
Date Mo-Yr	Sample Date	Field Measurements Flow (cfs)	Ph (units)	Sp. Cond. (ohms)	Temp. (C)	Laboratory Measurements TDS (mg/l)	TSS (mg/l)	O&G (mg/l)	Hd-CaCO3 (mg/l)	HCO3 (mg/l)	CO3 (mg/l)	Cl (D) (mg/l)	SO4 (D) (mg/l)	Ca (D) (mg/l)	Mg (D) (mg/l)	K (D) (mg/l)	Na (D) (mg/l)	Cat/An Bal (%)	Fe (D) (mg/l)	Fe (T) (mg/l)	Mn (T) (mg/l)	Comments
Jan-95																						
Feb-95	02/27/95																					
Mar-95																						
Apr-95	04/26/95																					
May-95																						
Jun-95																						
Jul-95																						
Aug-95	08/24/95																					
Sep-95																						
Oct-95																						
Nov-95	11/28/95																					
Dec-95																						
Jan-96																						
END DATA																						
Count		16	28	1	0	28	25	0	0	1	0	1	1	1	1	1	1	0	1	28	16	
Minimum		0.45	7	1450	ERR	366 <	0.5	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	0.02 <	0.01	
Maximum		1.11	8.2	1450	ERR	1330 <	19	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	0.82 <	0.03	
Average		0.4913	7.5357	1450	ERR	853.39 <	4.5	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	0.1371 <	0.0125	
Standard Deviation		0.1598	0.2894	0	ERR	256.32 <	3.5805	ERR	ERR	0	ERR	0	0	0	0	0	0	ERR	0 <	0.1579 <	0.0056	
Avg. -1 Std. Dev.		0.3315	7.2464	1450	ERR	597.08 <	0.9195	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	-0.021 <	0.0069	
Avg. +1 Std. Dev.		0.651	7.8251	1450	ERR	1109.7 <	8.0805	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	0.295 <	0.0181	
Avg. -2 Std. Dev.		0.1717	6.957	1450	ERR	340.76 <	-2.661	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	-0.179 <	0.0013	
Avg. +2 Std. Dev.		0.8108	8.1144	1450	ERR	1366 <	11.661	ERR	ERR	322	ERR	6	540	147	109	10	7	ERR	0.09 <	0.4529 <	0.0237	

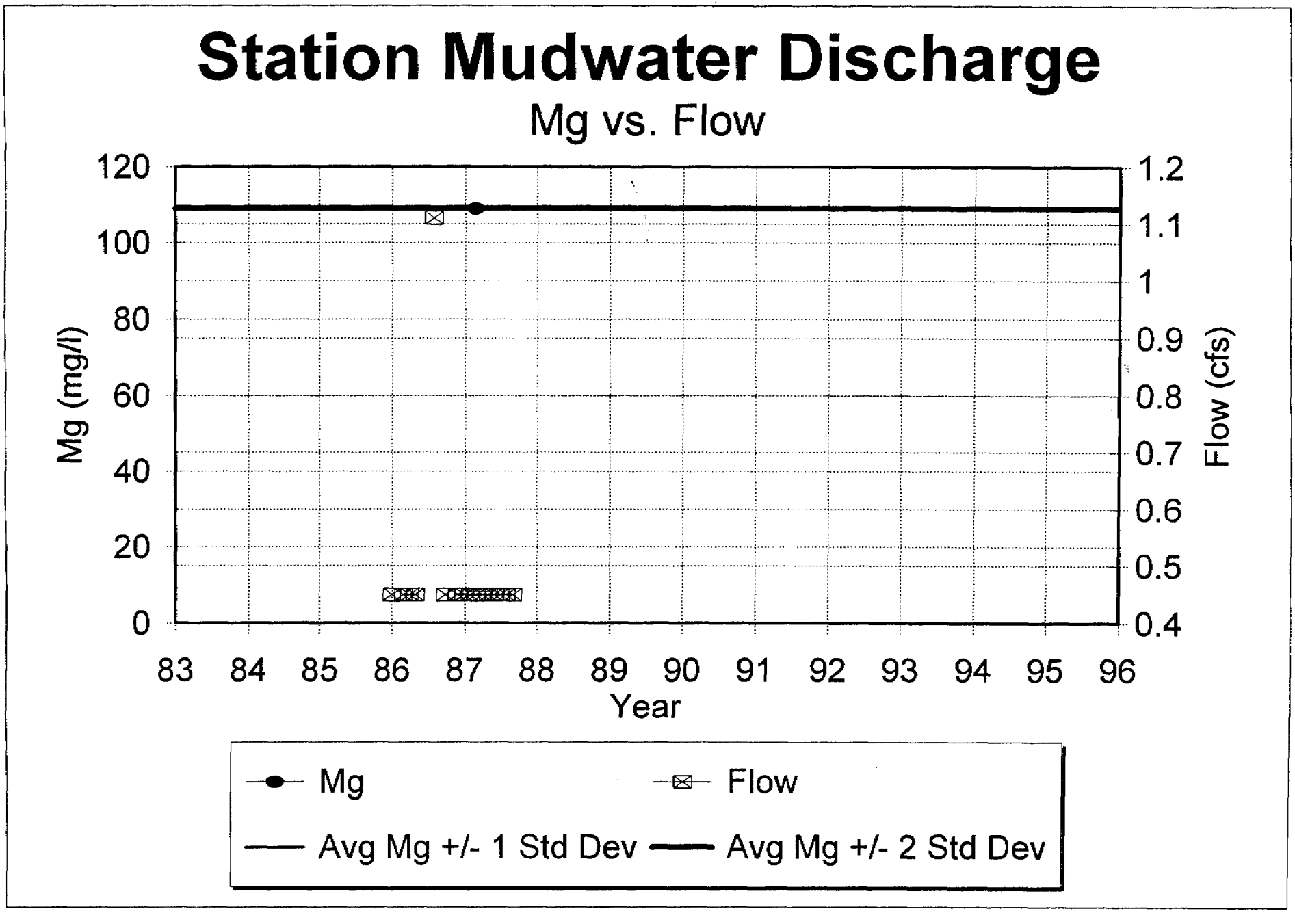
NOTE: The "<" symbol indicates that "Less Than" data was found in the data set; statistics are approximate.

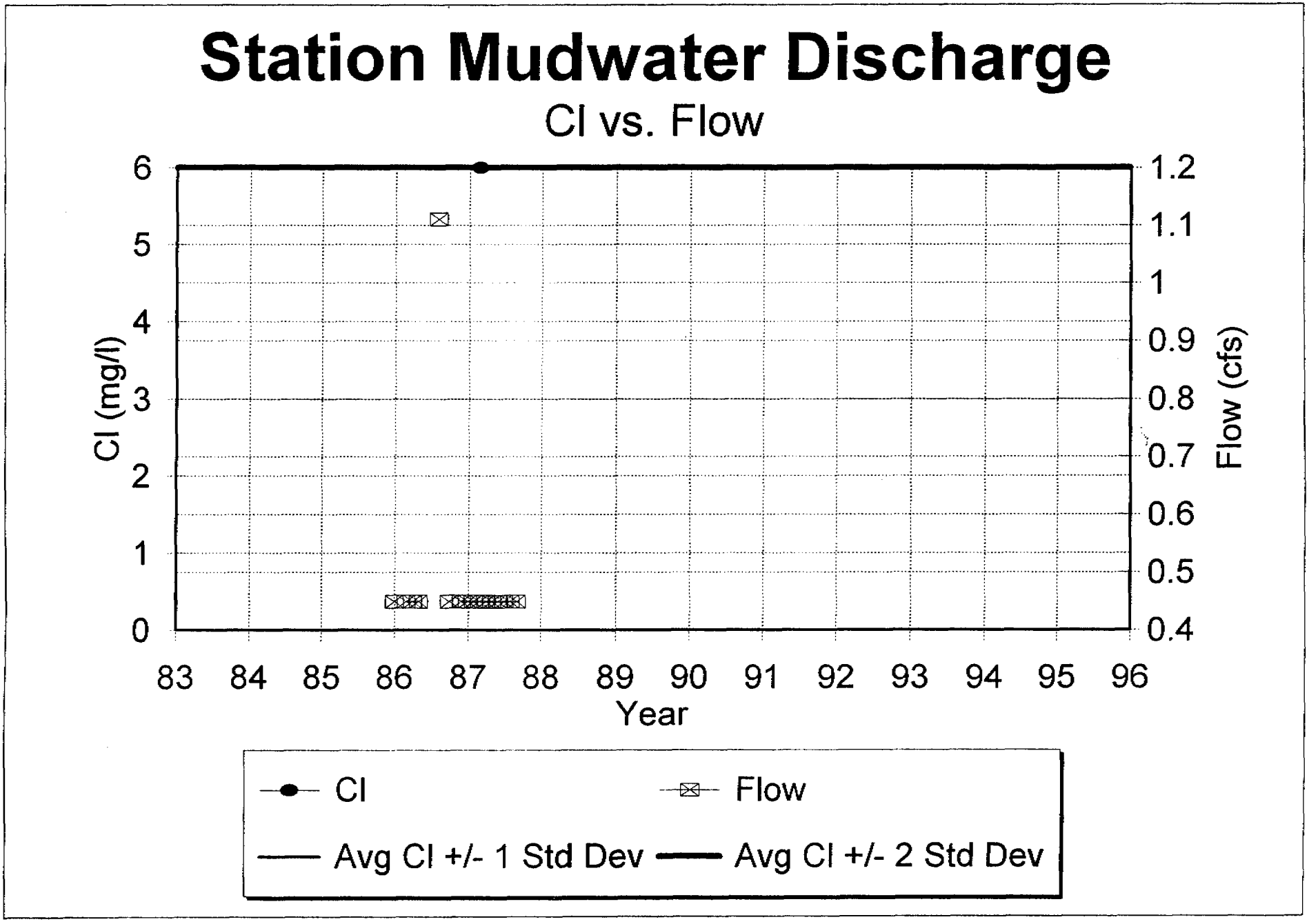

Station Mudwater Discharge
Monthly Precipitation vs. Flow
Monthly Precipitation (in)
0
0.5
1
1.5
2
2.5
3
3.5
Flow (cfs)
1.2
1
0.8
0.6
0.4
0.2
0
Jan-83
Jul-85
Jan-88
Jul-90
Jan-93
Jul-95
Year
Monthly Precipitation
Flow

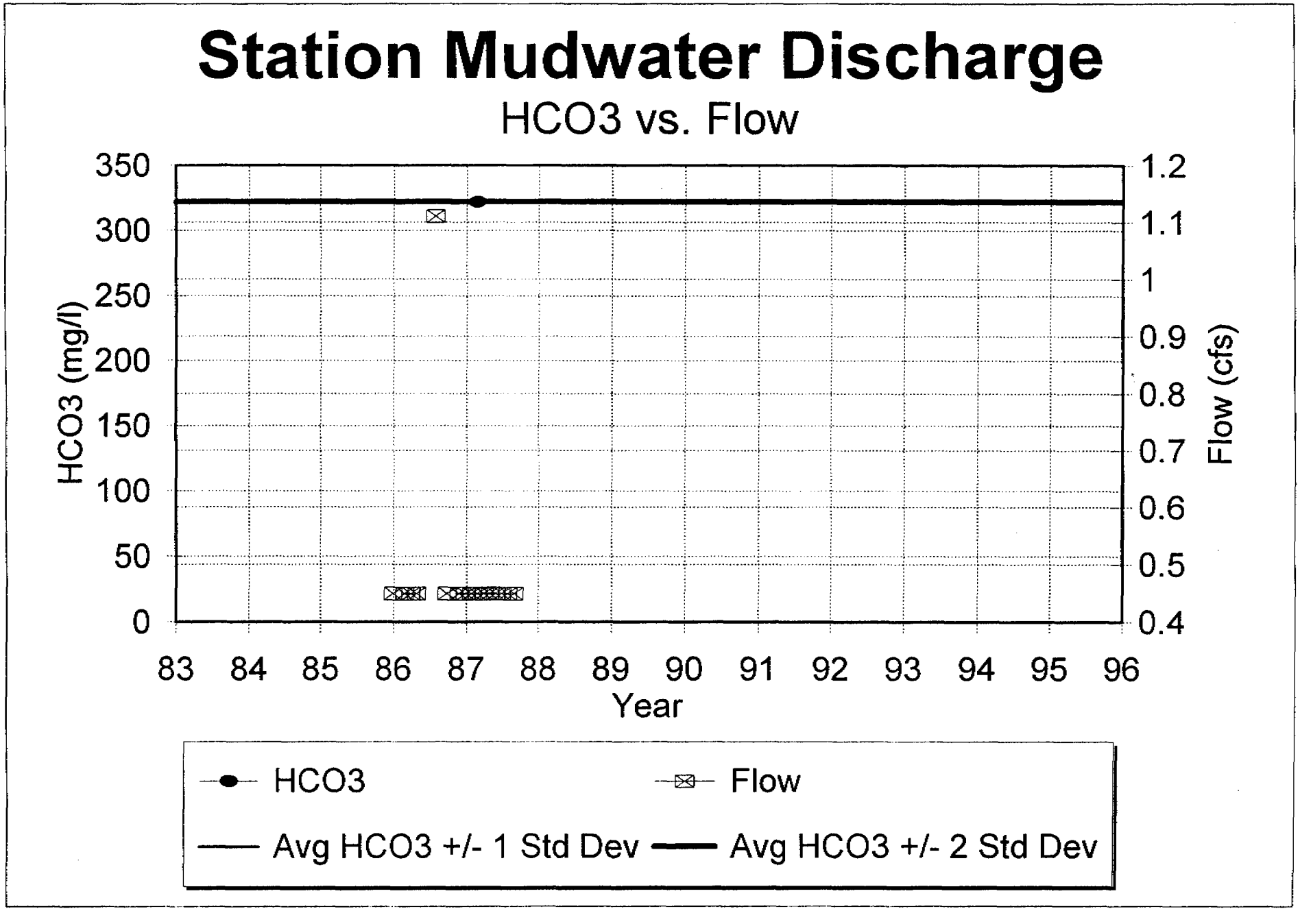

Station Mudwater Discharge
pH vs. Flow
pH (units)
8.2
8
7.8
7.6
7.4
7.2
7
6.8
Flow (cfs)
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
83
84
85
86
87
88
89
90
91
92
93
94
95
96
Year
pH
Flow
Avg pH +/- 1 Std Dev
Avg pH +/- 2 Std Dev

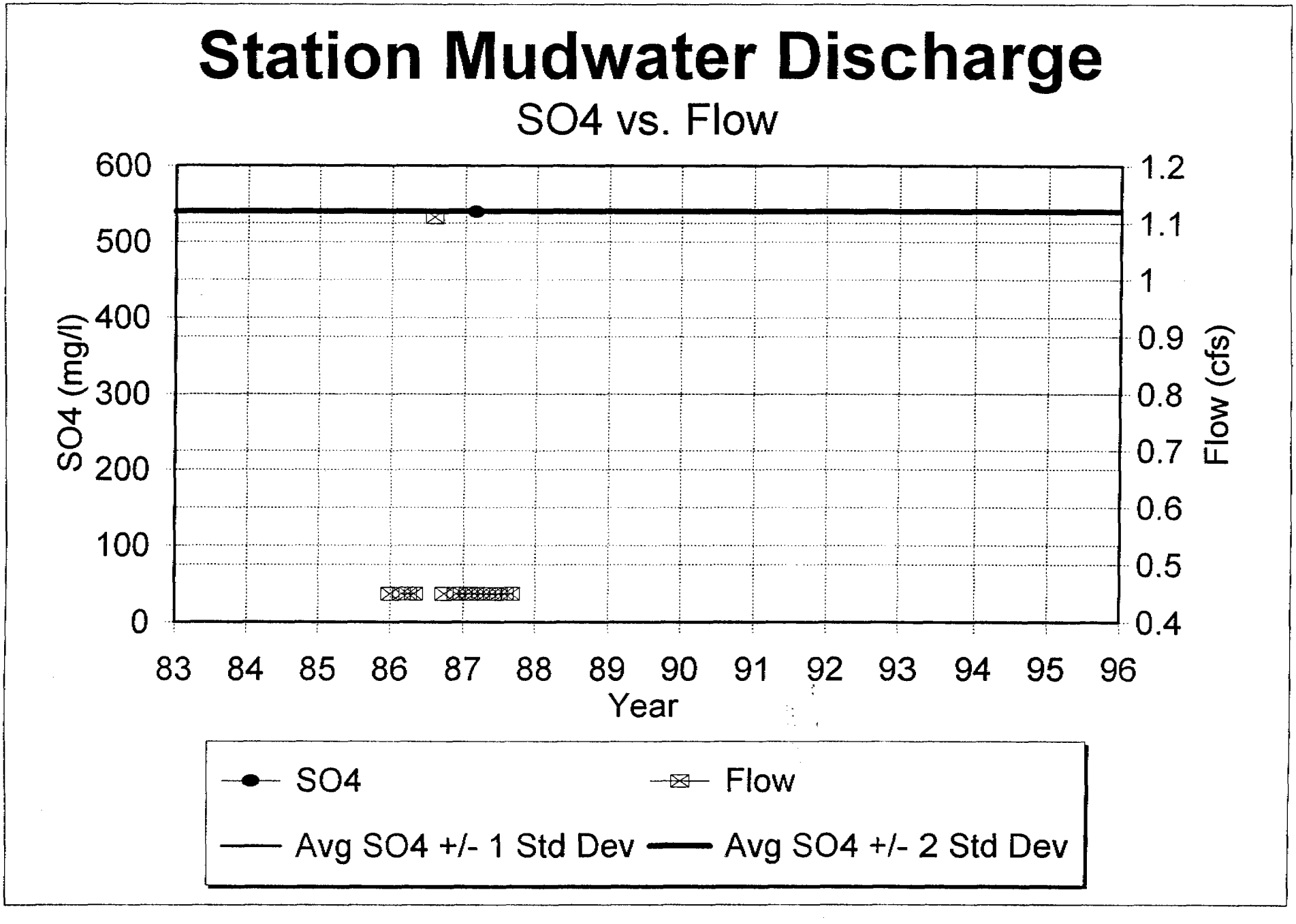

Station Mudwater Discharge
TDS vs. Flow
TDS (mg/l)
1400
1200
1000
800
600
400
200
Flow (cfs)
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
83
84
85
86
87
88
89
90
91
92
93
94
95
96
Year
TDS
Flow
Avg TDS +/- 1 Std Dev
Avg TDS +/- 2 Std Dev


Station Mudwater Discharge
Ca vs. Flow
Ca (mg/l)
160
140
120
100
80
60
40
20
0
Flow (cfs)
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
83
84
85
86
87
88
89
90
91
92
93
94
95
96
Year
Ca
Flow
Avg Ca +/- 1 Std Dev
Avg Ca +/- 2 Std Dev


Station Mudwater Discharge
Mg vs. Flow
Mg (mg/l)
120
100
80
60
40
20
0
Flow (cfs)
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
83
84
85
86
87
88
89
90
91
92
93
94
95
96
Year
Mg
Flow
Avg Mg +/- 1 Std Dev
Avg Mg +/- 2 Std Dev


Station Mudwater Discharge
Cl vs. Flow
Cl (mg/l)
Flow (cfs)
Year
0
1
2
3
4
5
6
0.4
0.5
0.6
0.7
0.8
0.9
1
1.1
1.2
83
84
85
86
87
88
89
90
91
92
93
94
95
96
Cl
Flow
Avg Cl +/- 1 Std Dev
Avg Cl +/- 2 Std Dev


Station Mudwater Discharge
HCO3 vs. Flow
HCO3 (mg/l)
350
300
250
200
150
100
50
0
Flow (cfs)
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
83
84
85
86
87
88
89
90
91
92
93
94
95
96
Year
HCO3
Flow
Avg HCO3 +/- 1 Std Dev
Avg HCO3 +/- 2 Std Dev


Station Mudwater Discharge
SO4 vs. Flow
SO4 (mg/l)
600
500
400
300
200
100
0
Flow (cfs)
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
83
84
85
86
87
88
89
90
91
92
93
94
95
96
Year
SO4
Flow
Avg SO4 +/- 1 Std Dev
Avg SO4 +/- 2 Std Dev