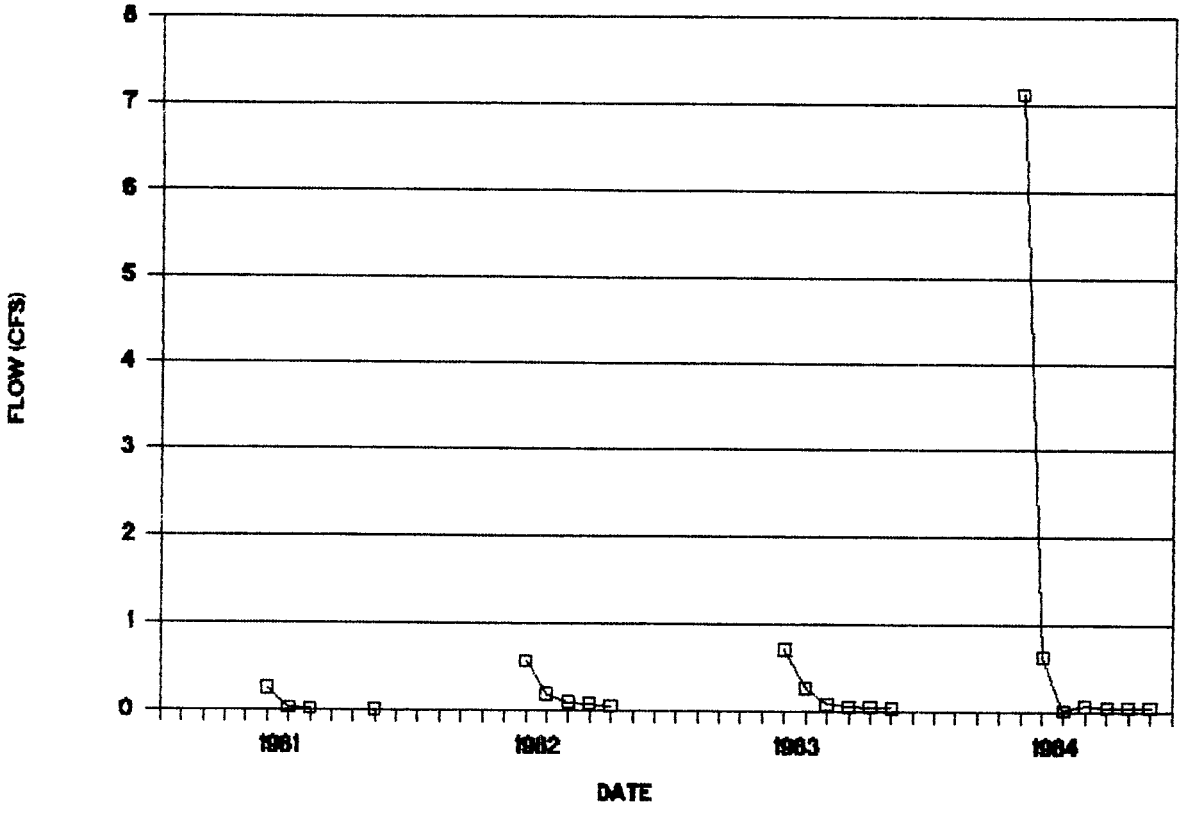
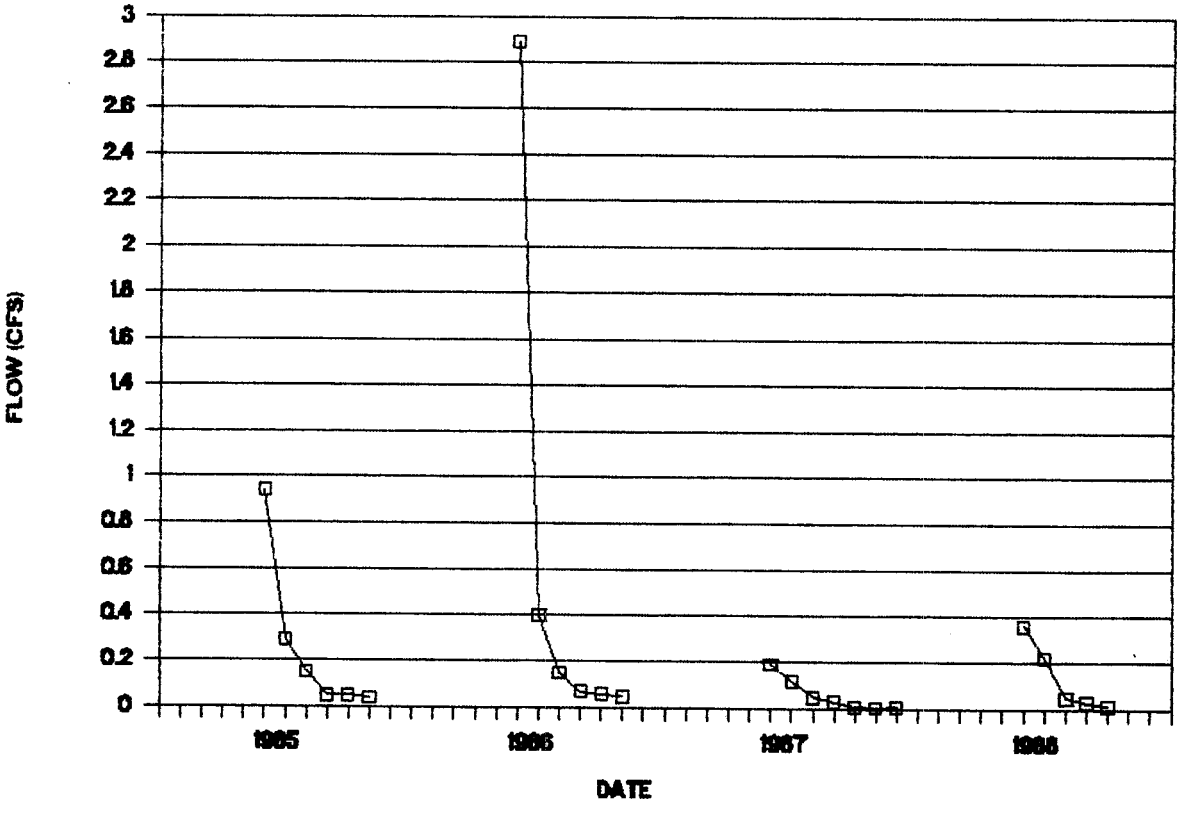
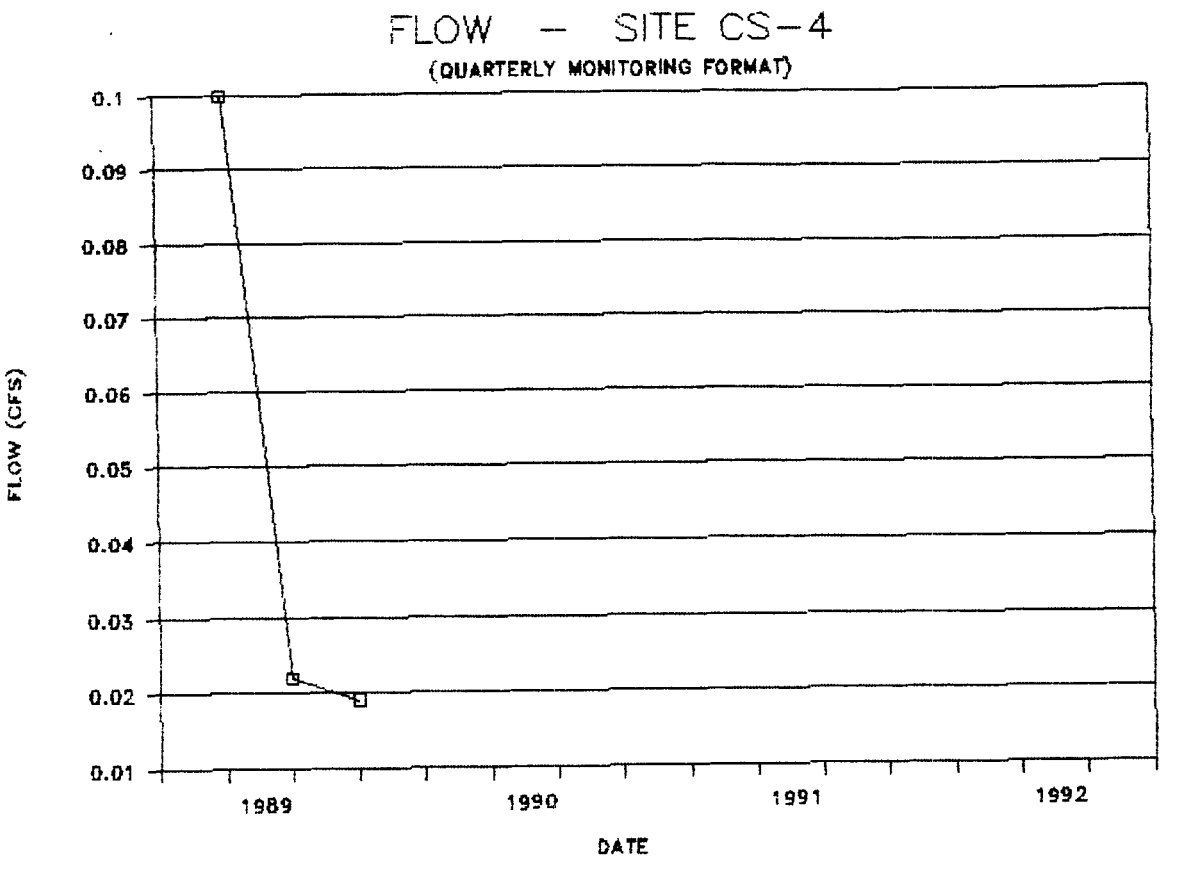
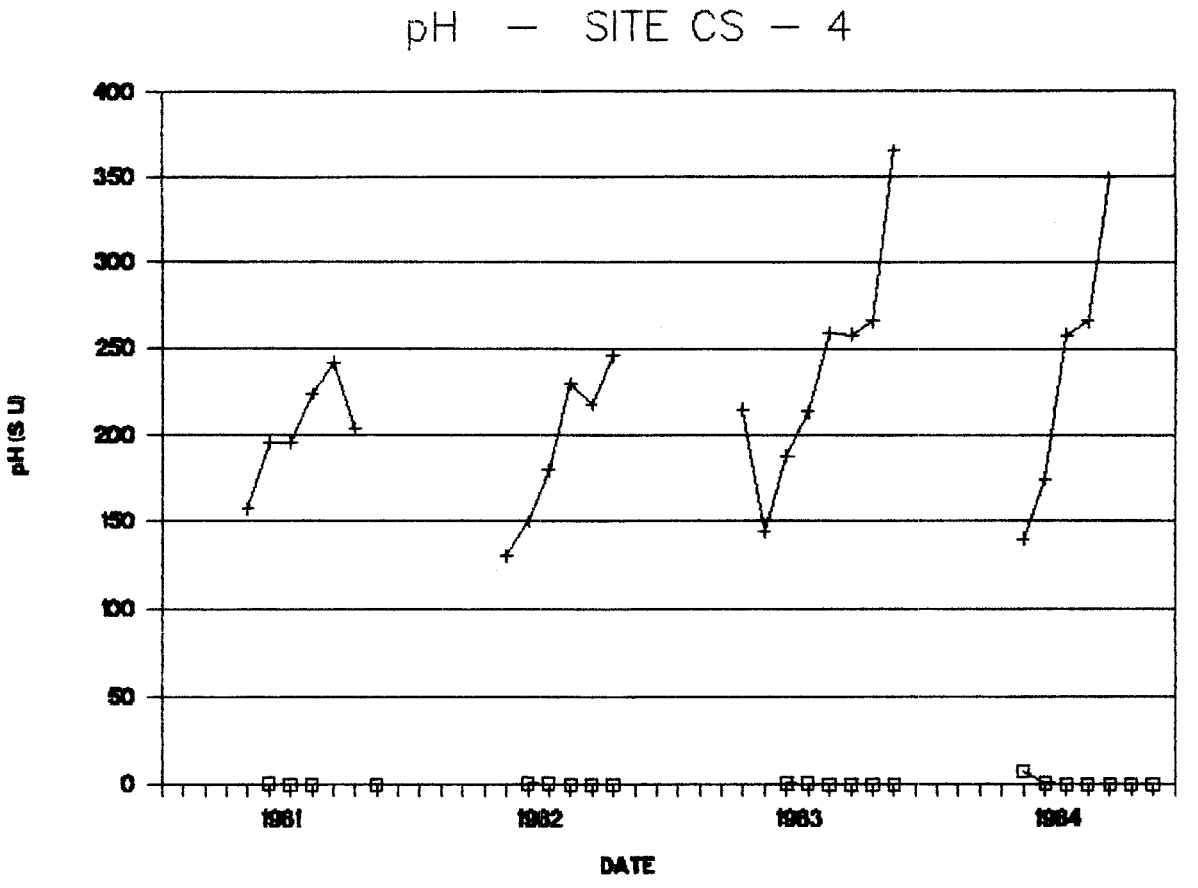
FLOW SITE CS – 4

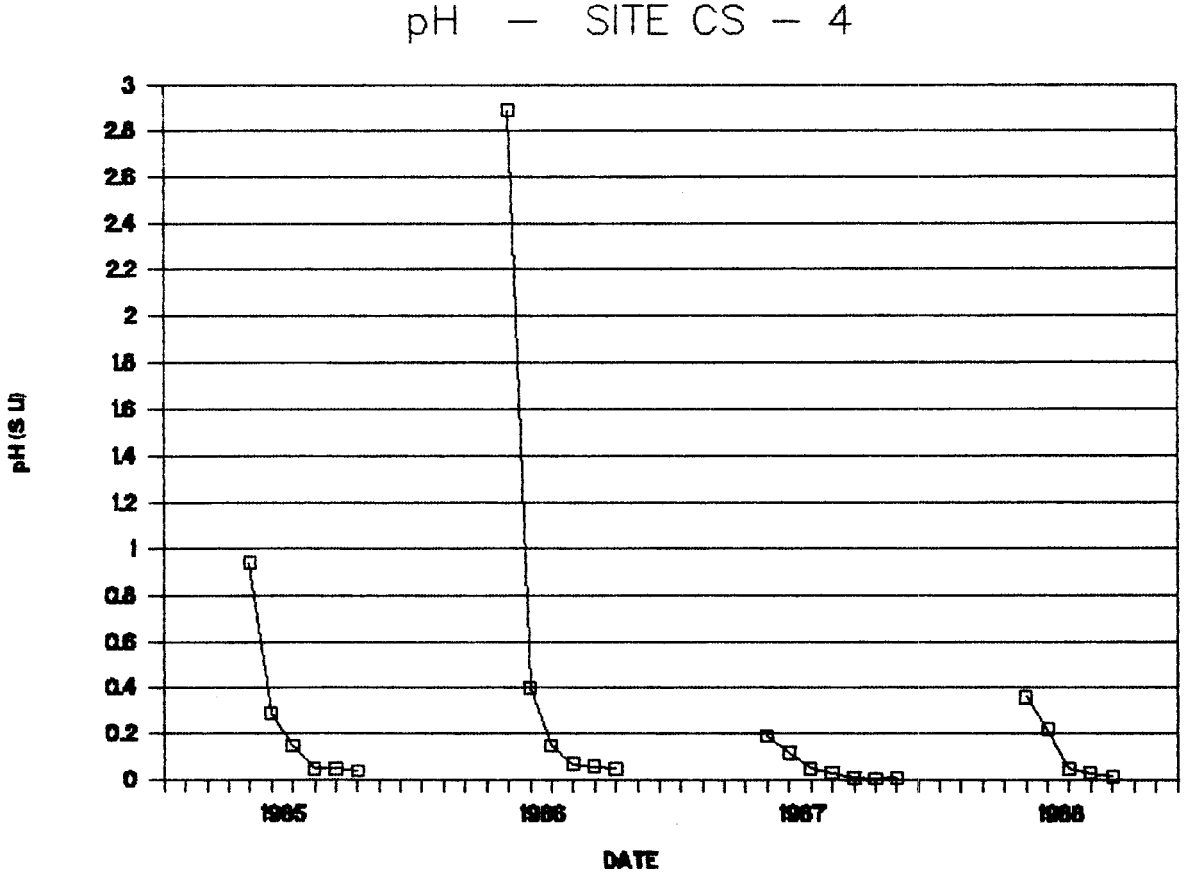


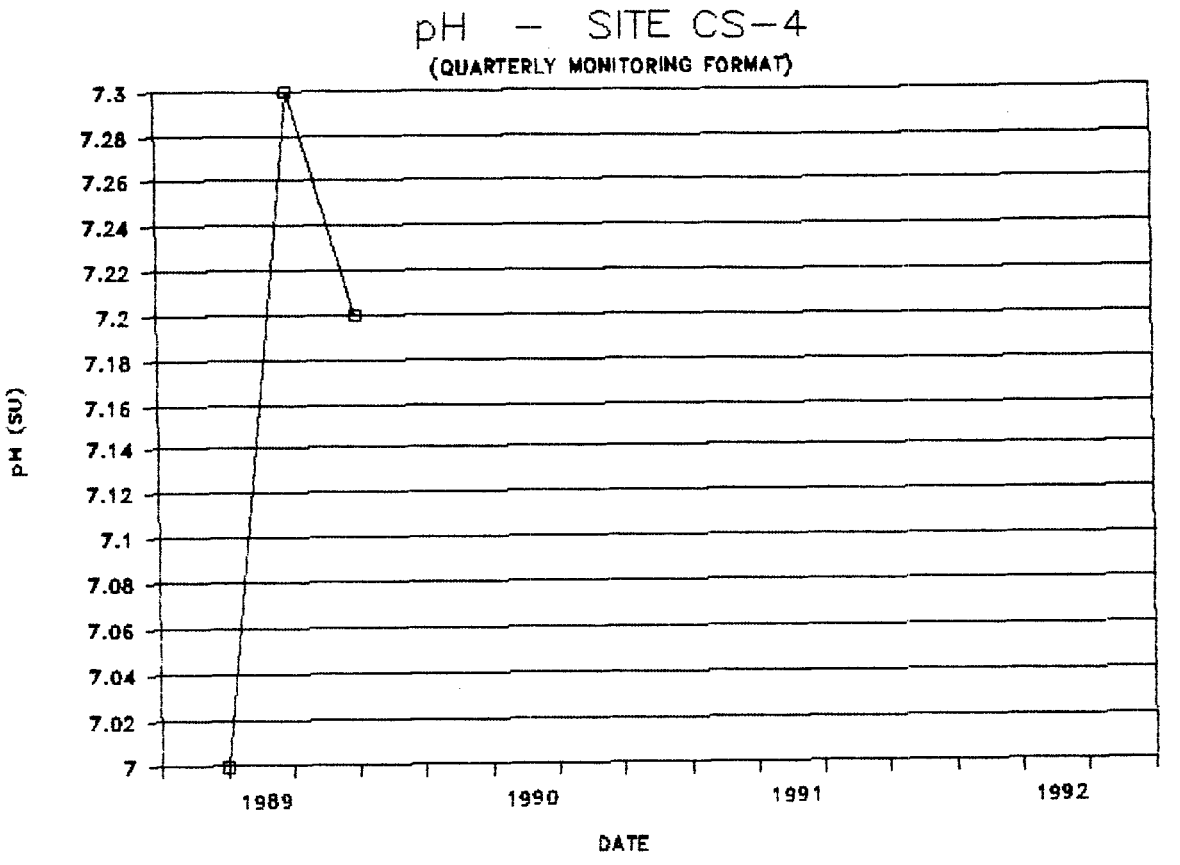
FLOW SITE CS – 4

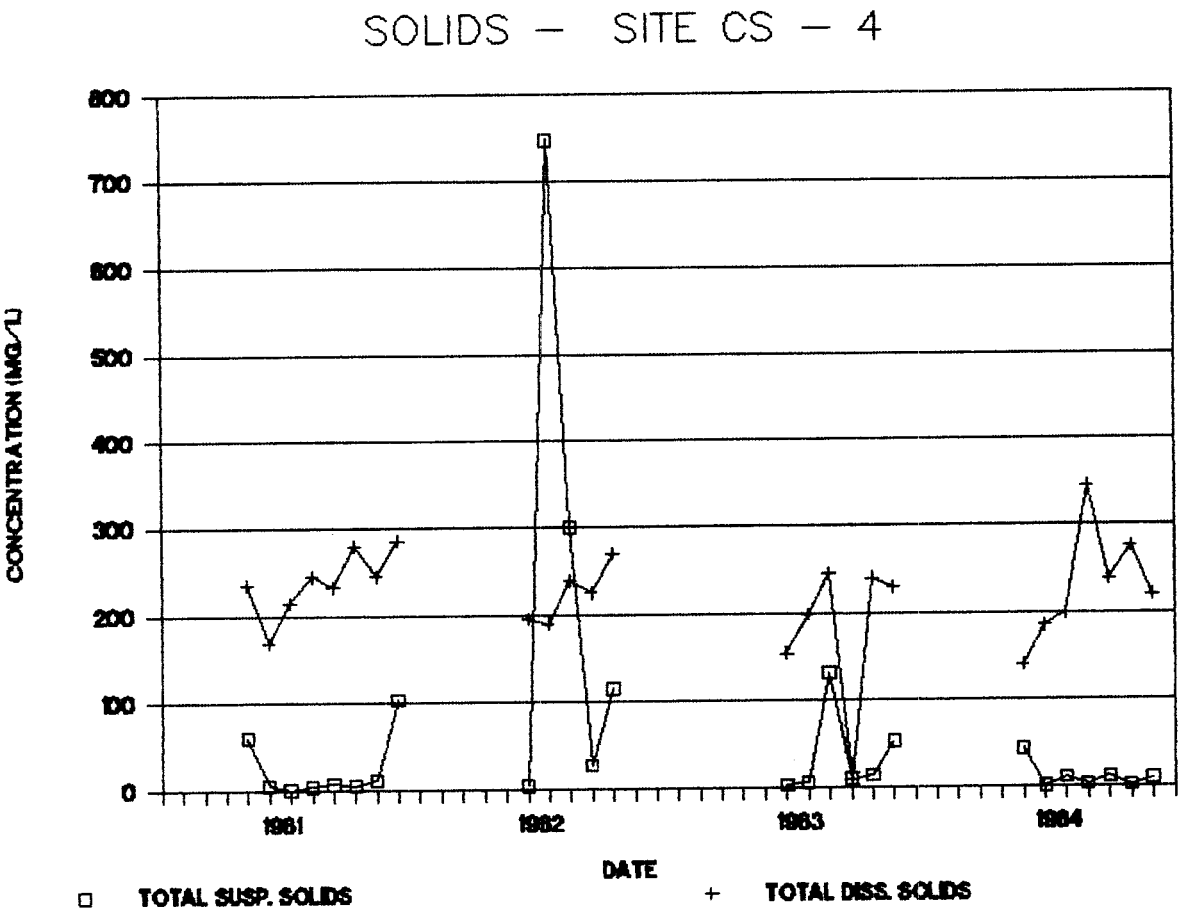


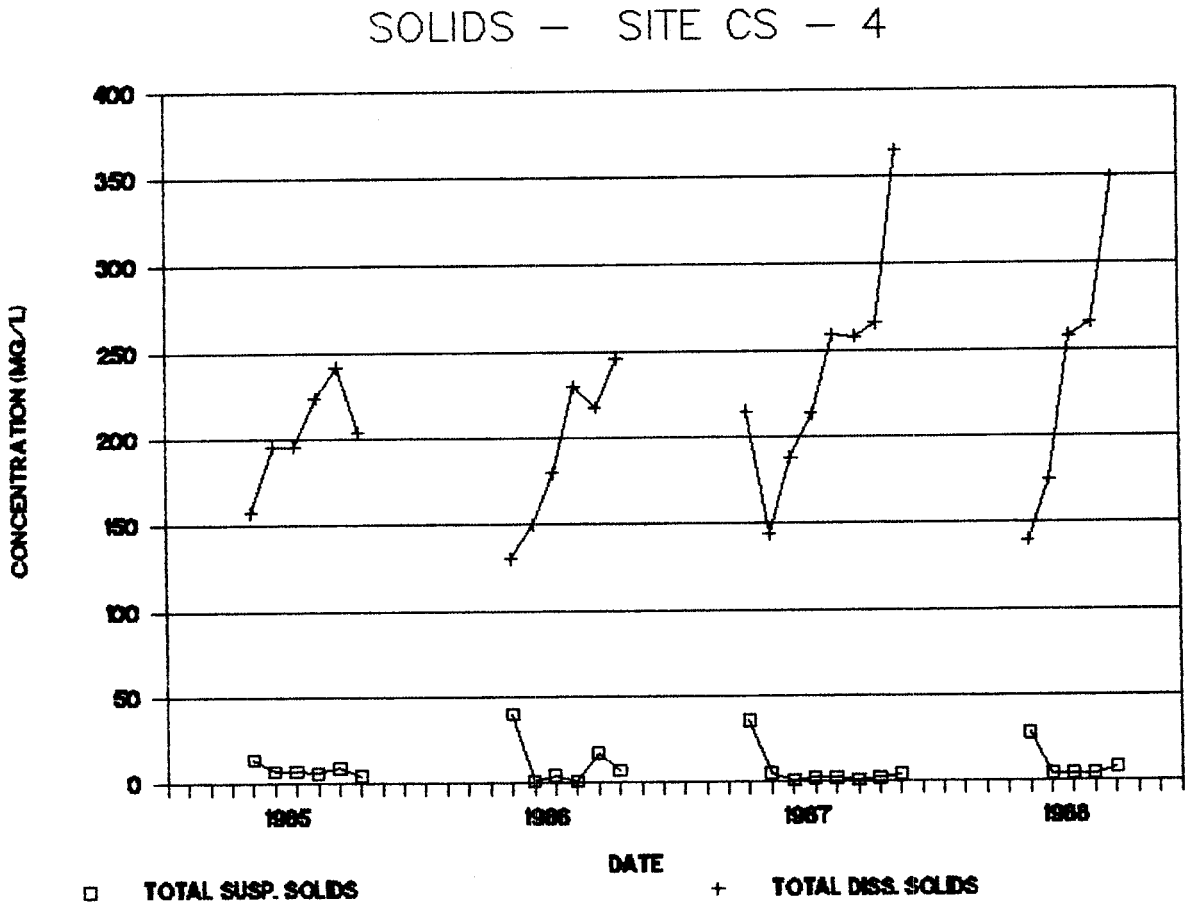

FLOW - SITE CS-4
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
1989
1990
1991
1992
DATE

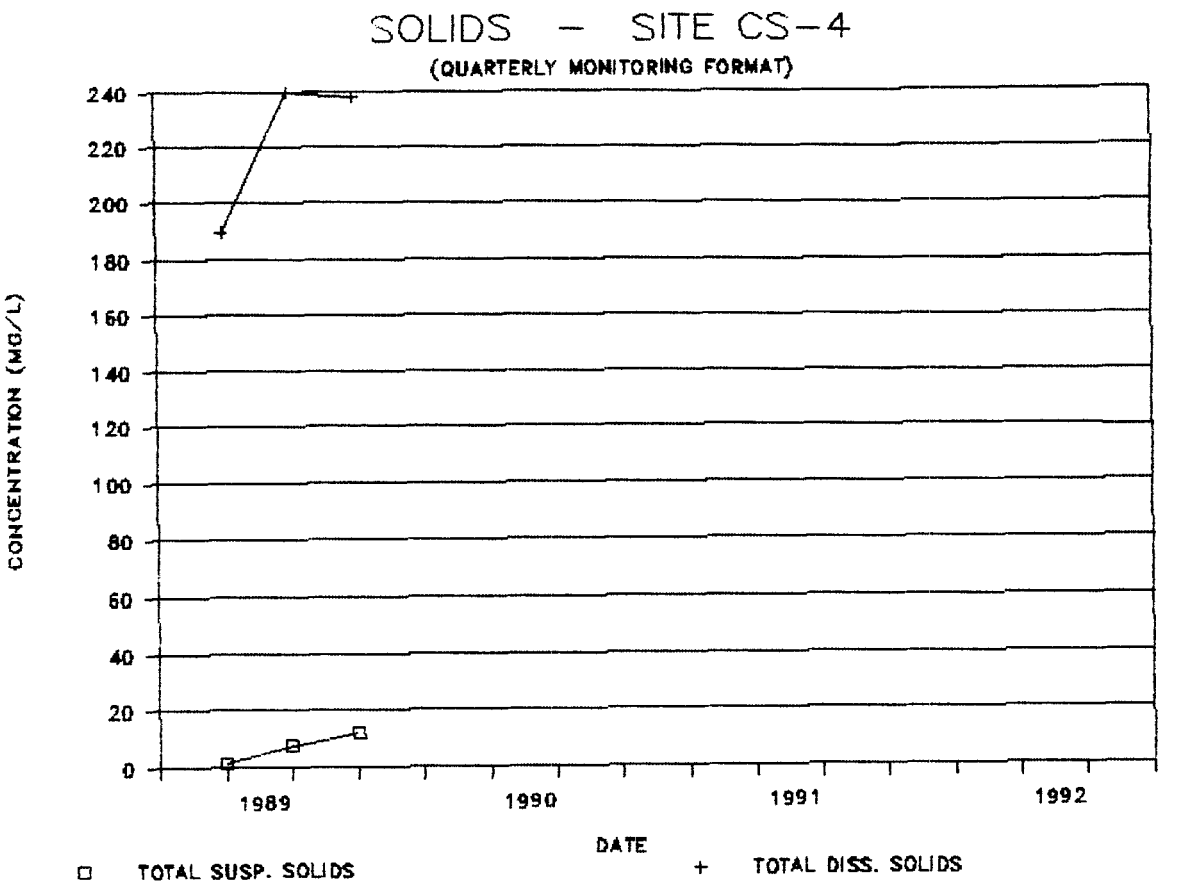

pH — SITE CS — 4
400
350
300
250
200
150
100
50
0
pH (S U)
1981
1982
1983
1984
DATE


pH — SITE CS — 4
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
pH (S U)
1985
1986
1987
1988
DATE

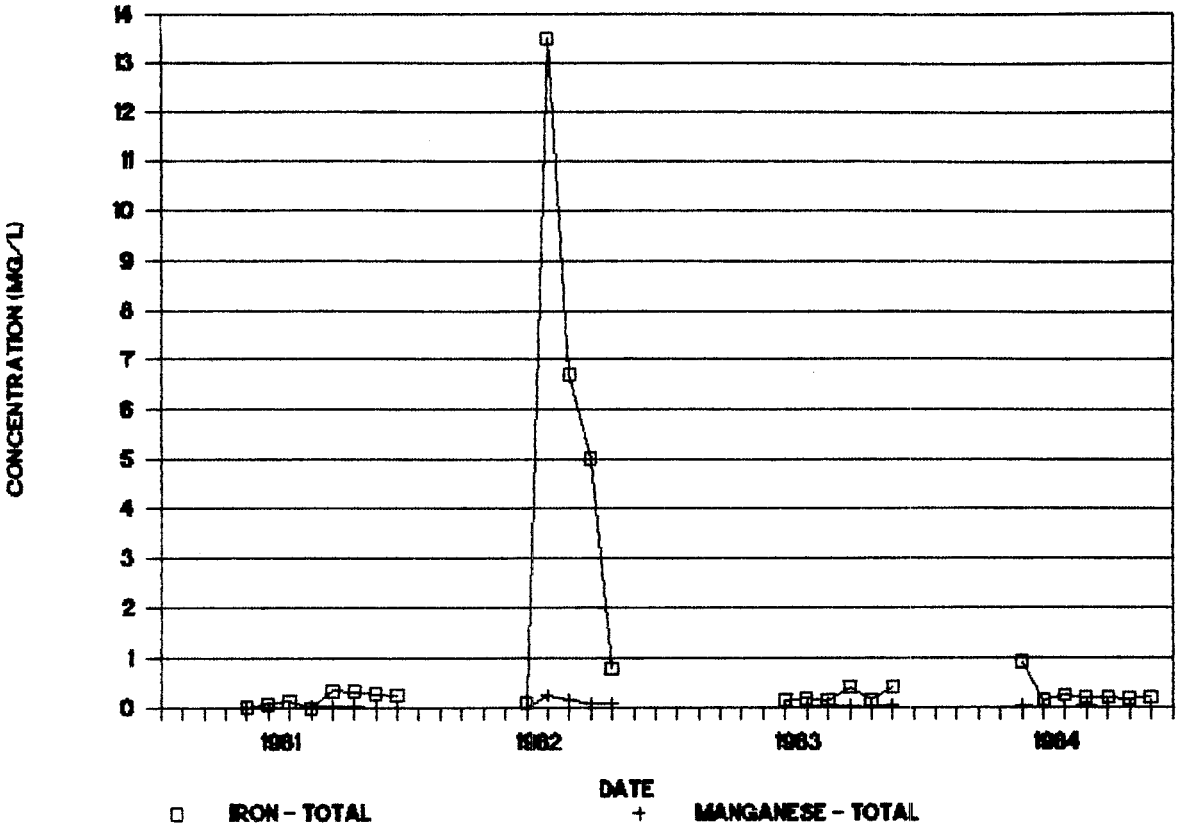

pH - SITE CS-4
(QUARTERLY MONITORING FORMAT)
7.3
7.28
7.26
7.24
7.22
7.2
7.18
7.16
7.14
7.12
7.1
7.08
7.06
7.04
7.02
7
pH (SU)
1989
1990
1991
1992
DATE


SOLIDS — SITE CS — 4
CONCENTRATION (MG/L)
800
700
600
500
400
300
200
100
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

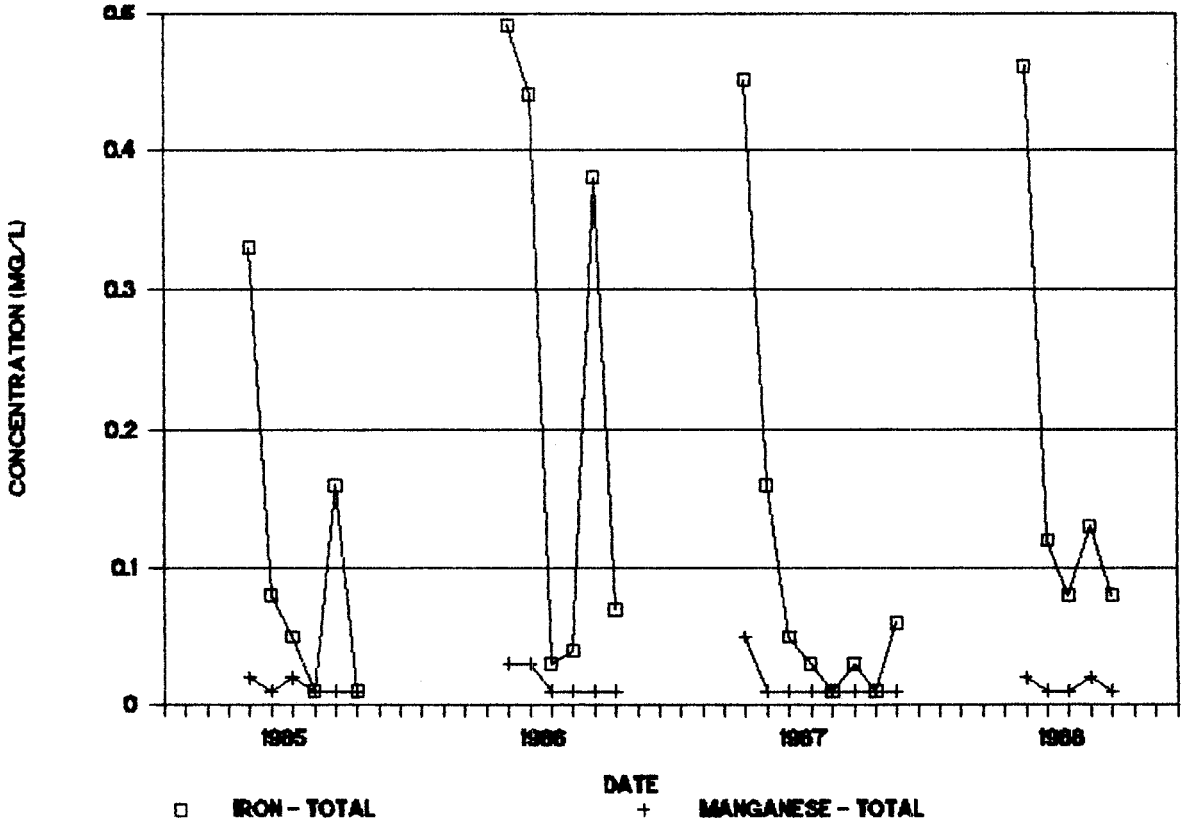

SOLIDS — SITE CS — 4
CONCENTRATION (MG/L)
400
350
300
250
200
150
100
50
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

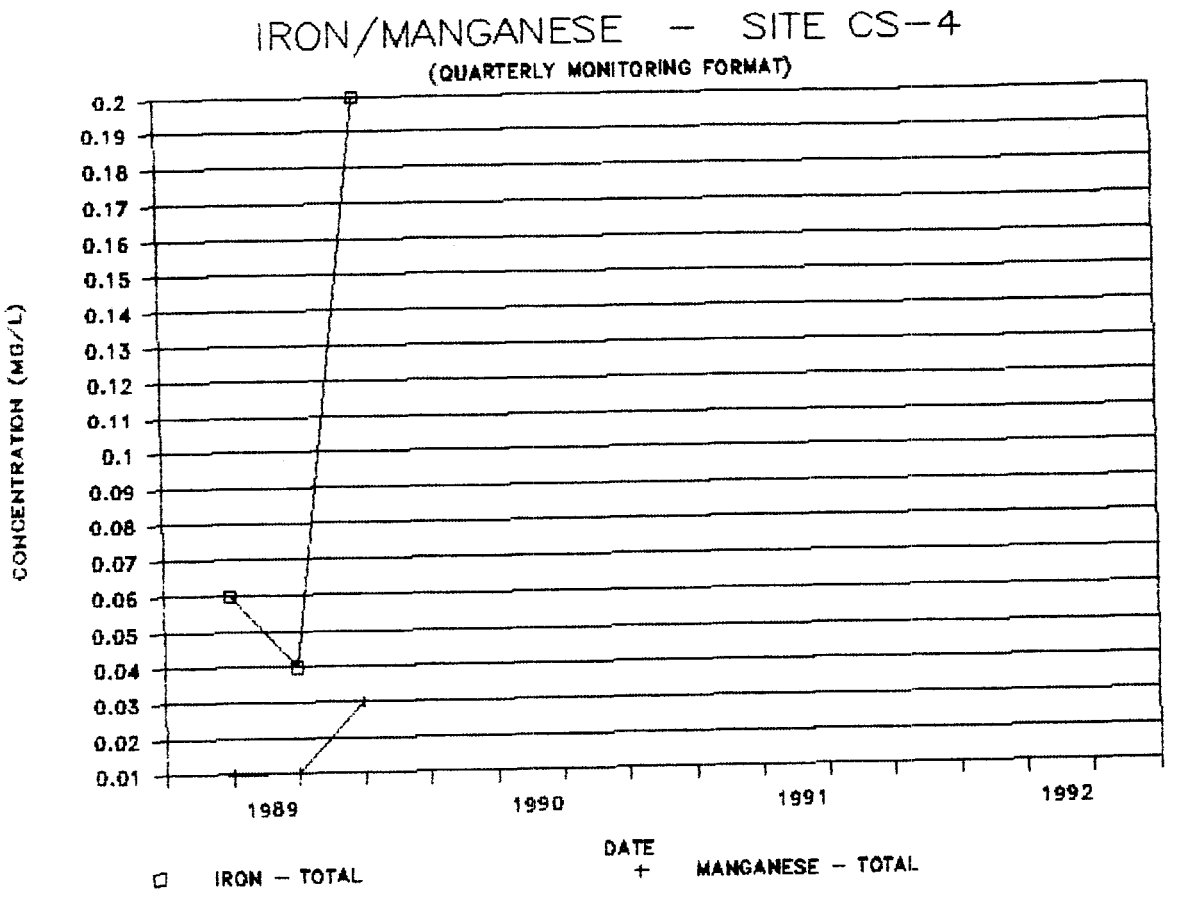

SOLIDS - SITE CS-4
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

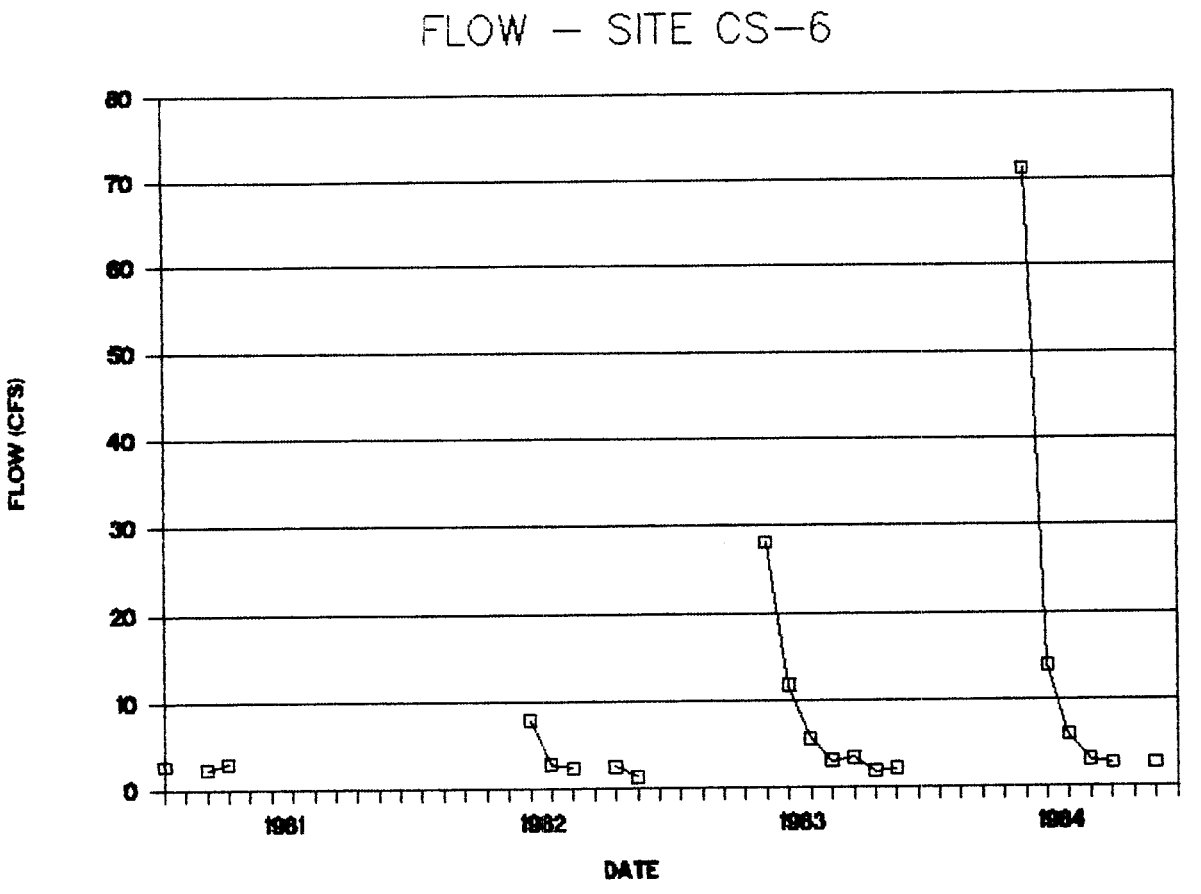
IRON / MANGANESE SITE CS – 4

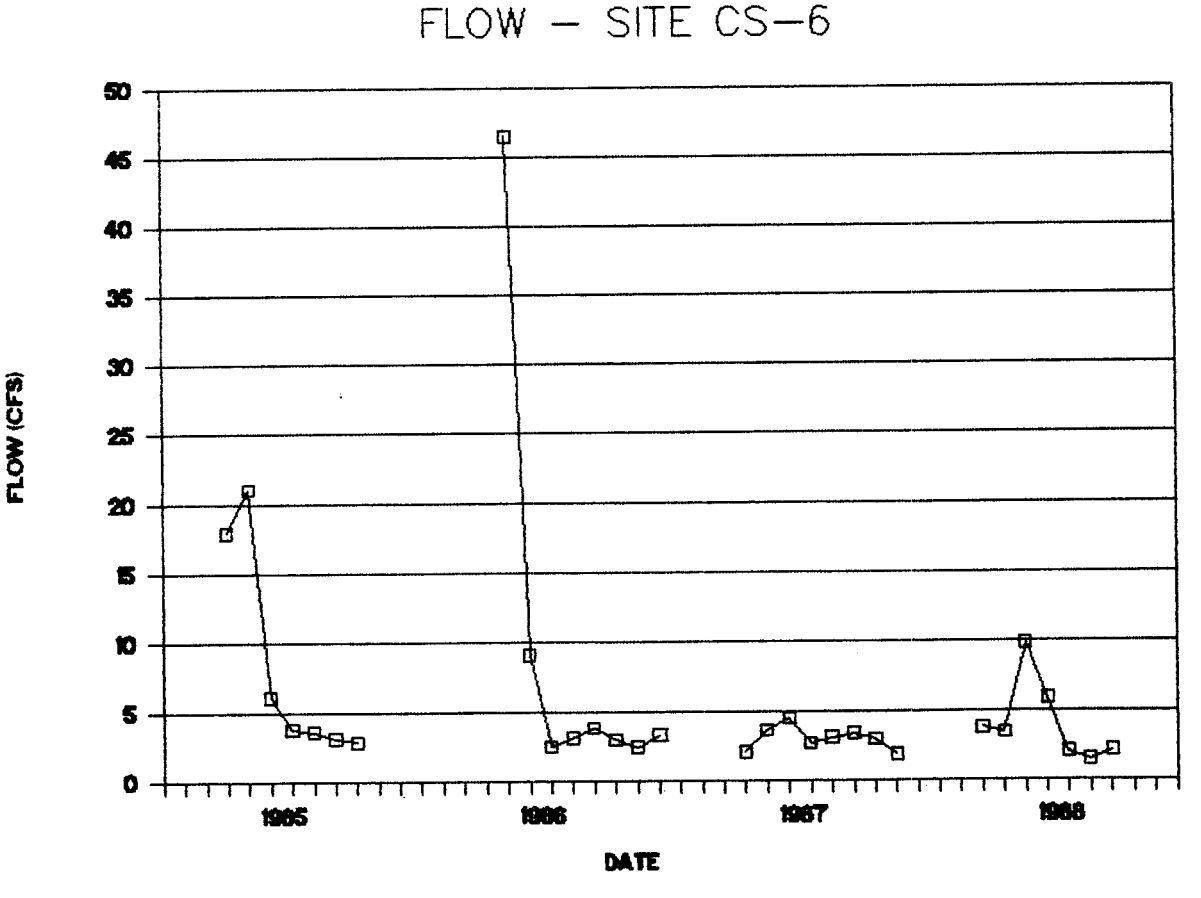


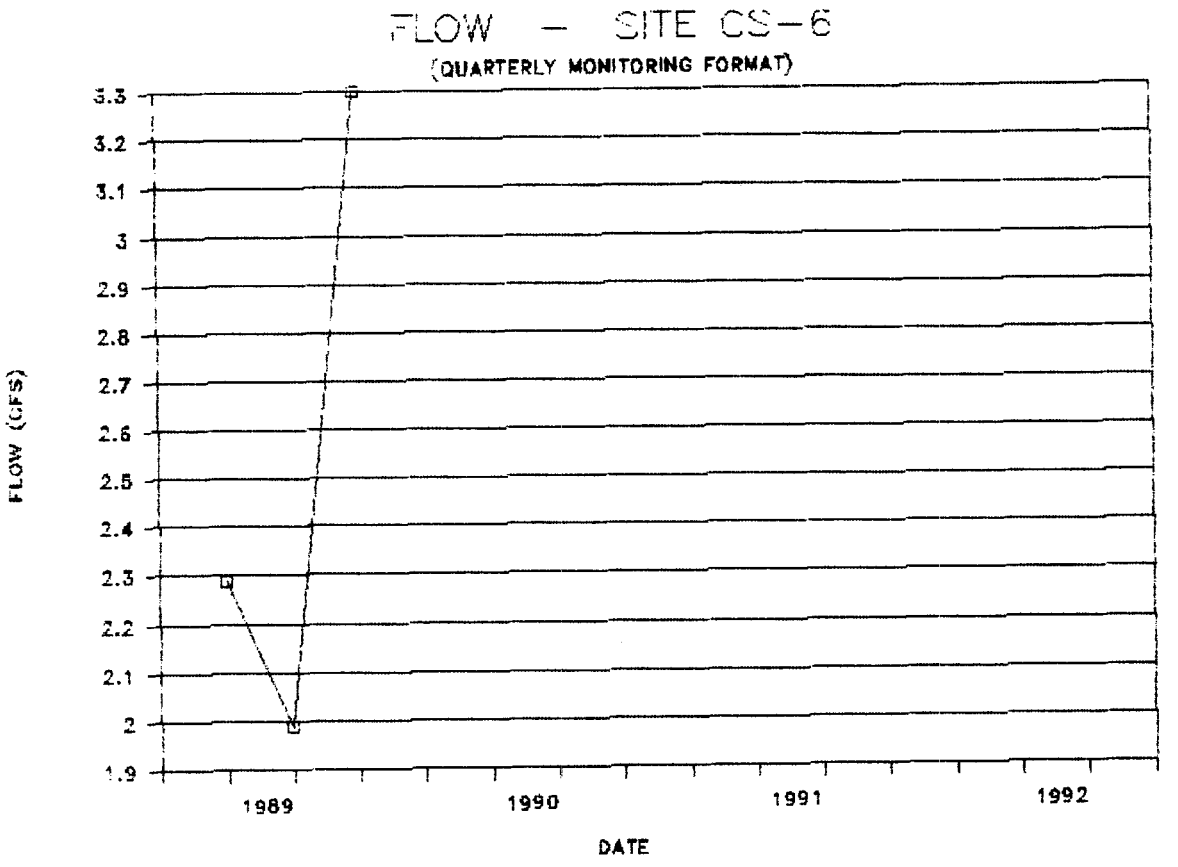
IRON / MANGANESE SITE CS – 4

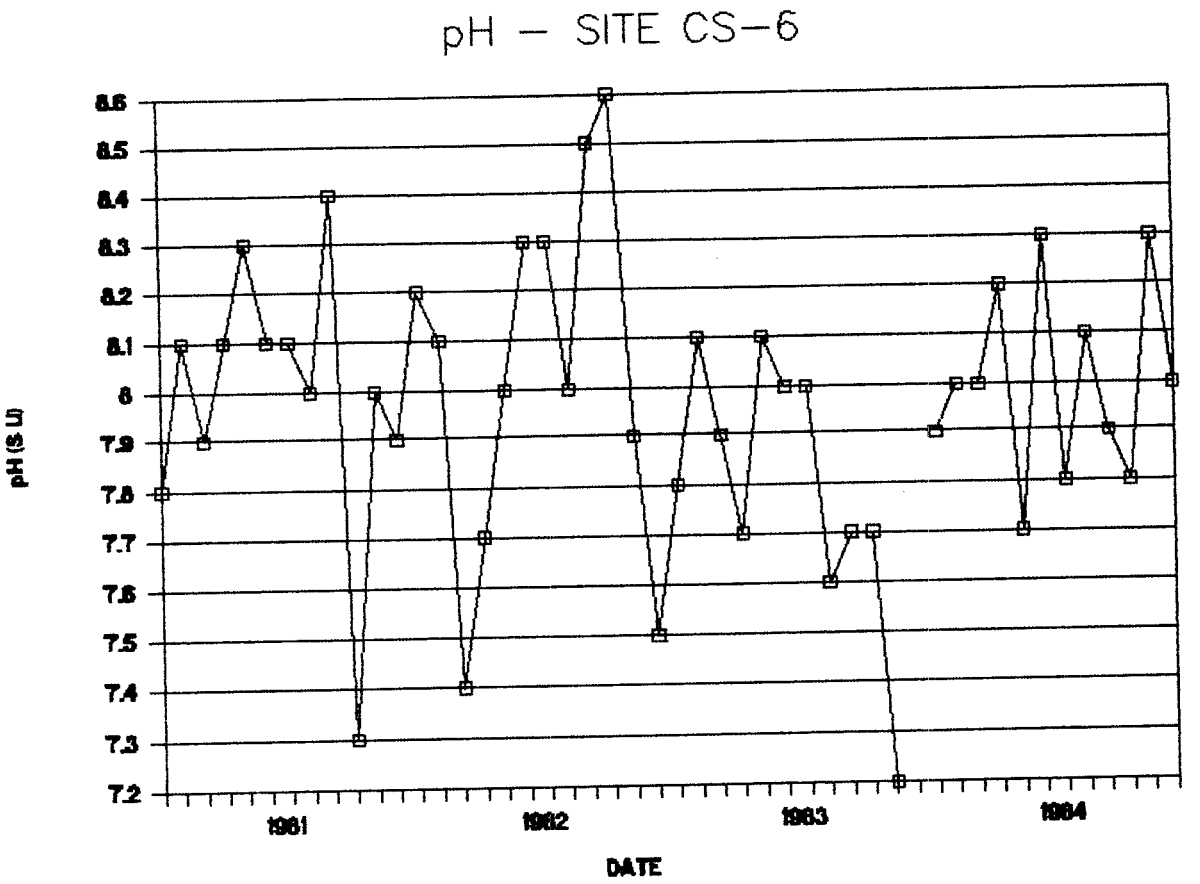


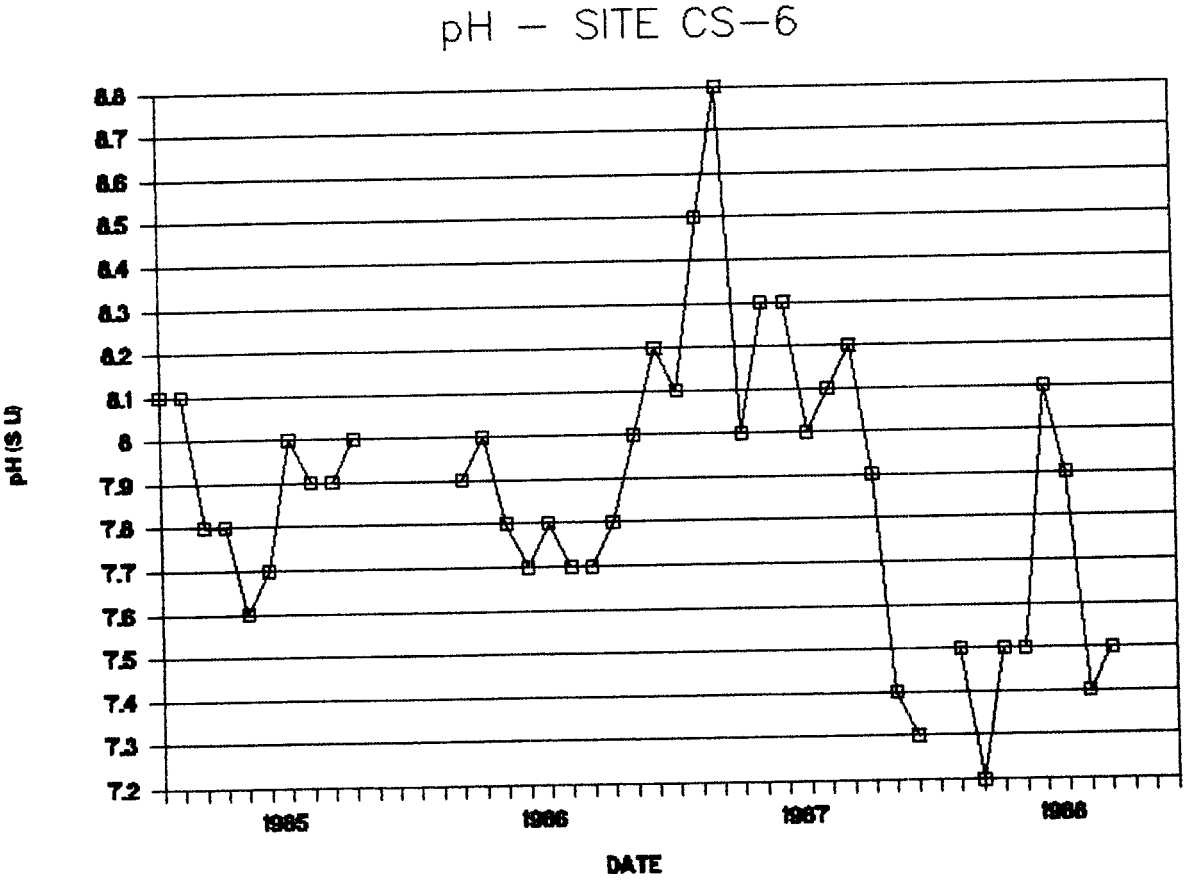

IRON/MANGANESE - SITE CS-4
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.2
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

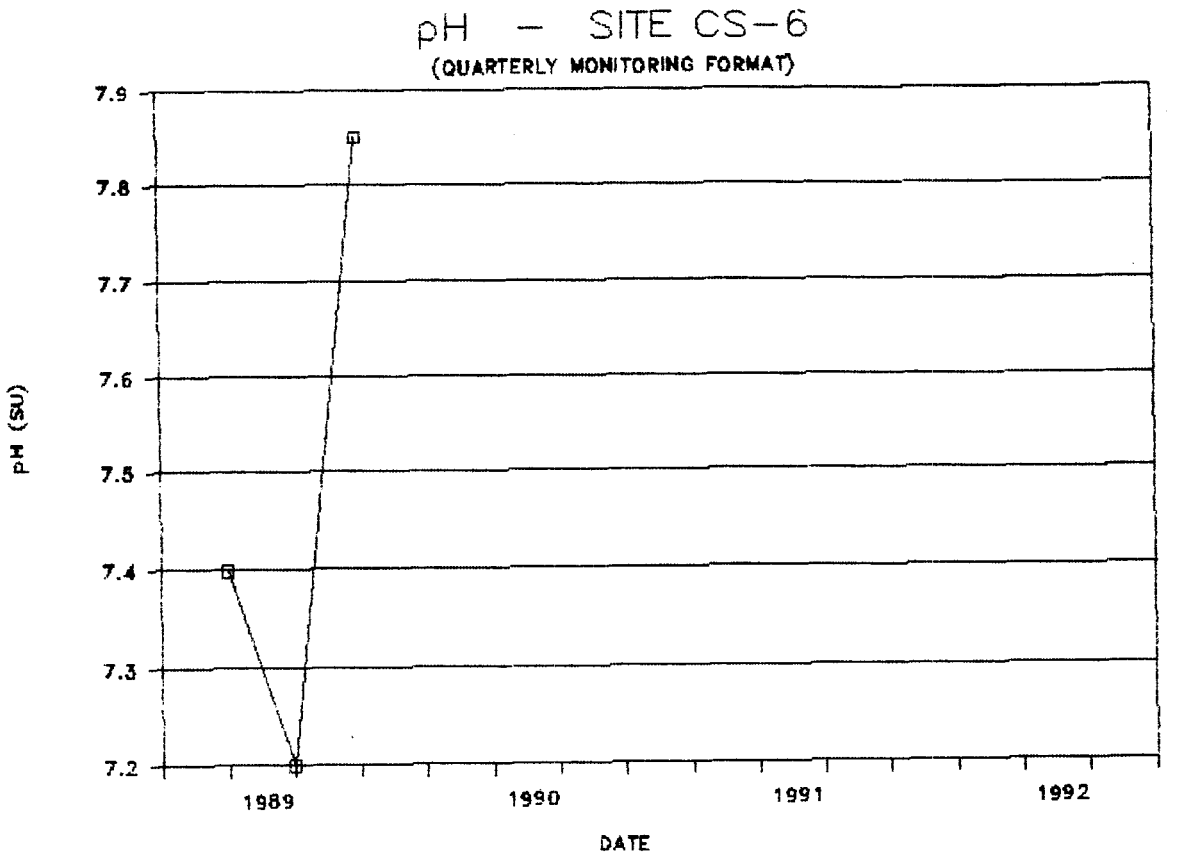

FLOW – SITE CS–6
FLOW (CFS)
80
70
60
50
40
30
20
10
0
1981
1982
1983
1984
DATE


FLOW – SITE CS–6
FLOW (CFS)
50
45
40
35
30
25
20
15
10
5
0
1985
1986
1987
1988
DATE

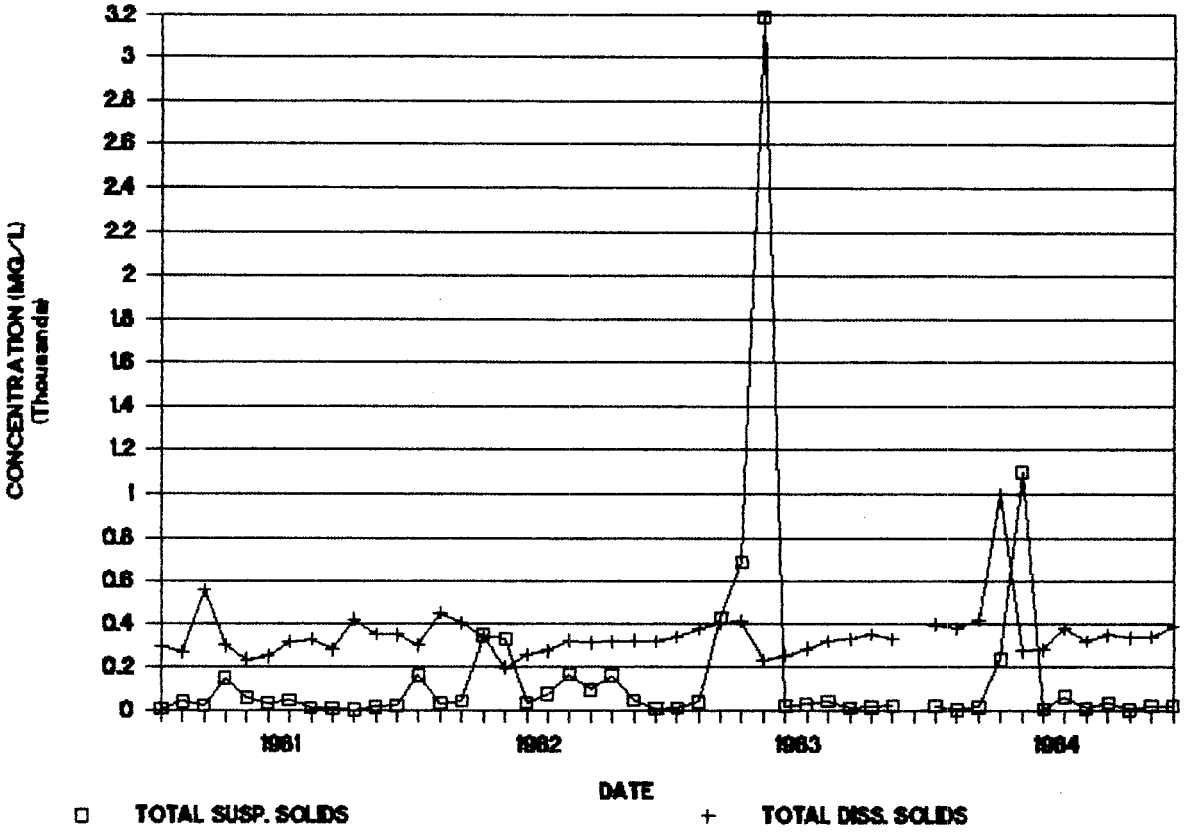

FLOW - SITE CS-6
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
3.3
3.2
3.1
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1.9
1989
1990
1991
1992
DATE


pH – SITE CS–6
pH (S U)
8.6
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
1981
1982
1983
1984
DATE

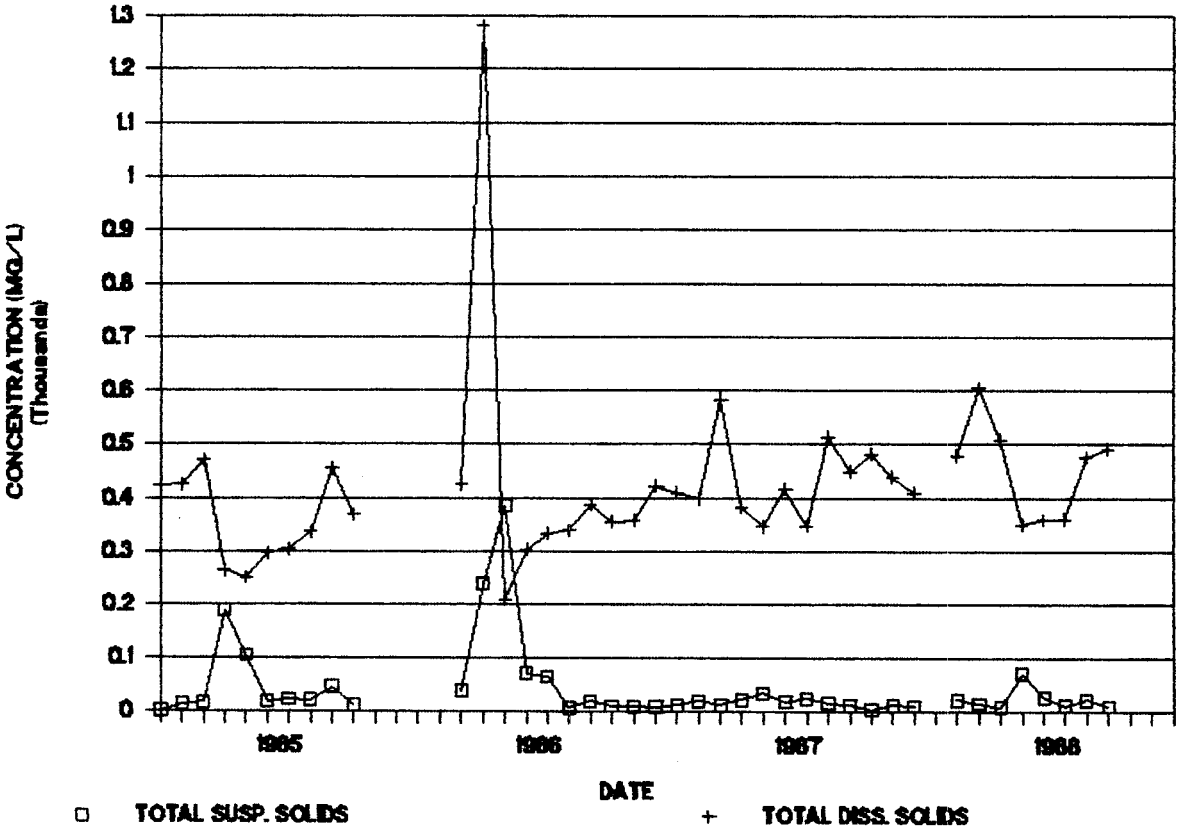

pH – SITE CS–6
pH (S U)
8.8
8.7
8.6
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
1985
1986
1987
1988
DATE

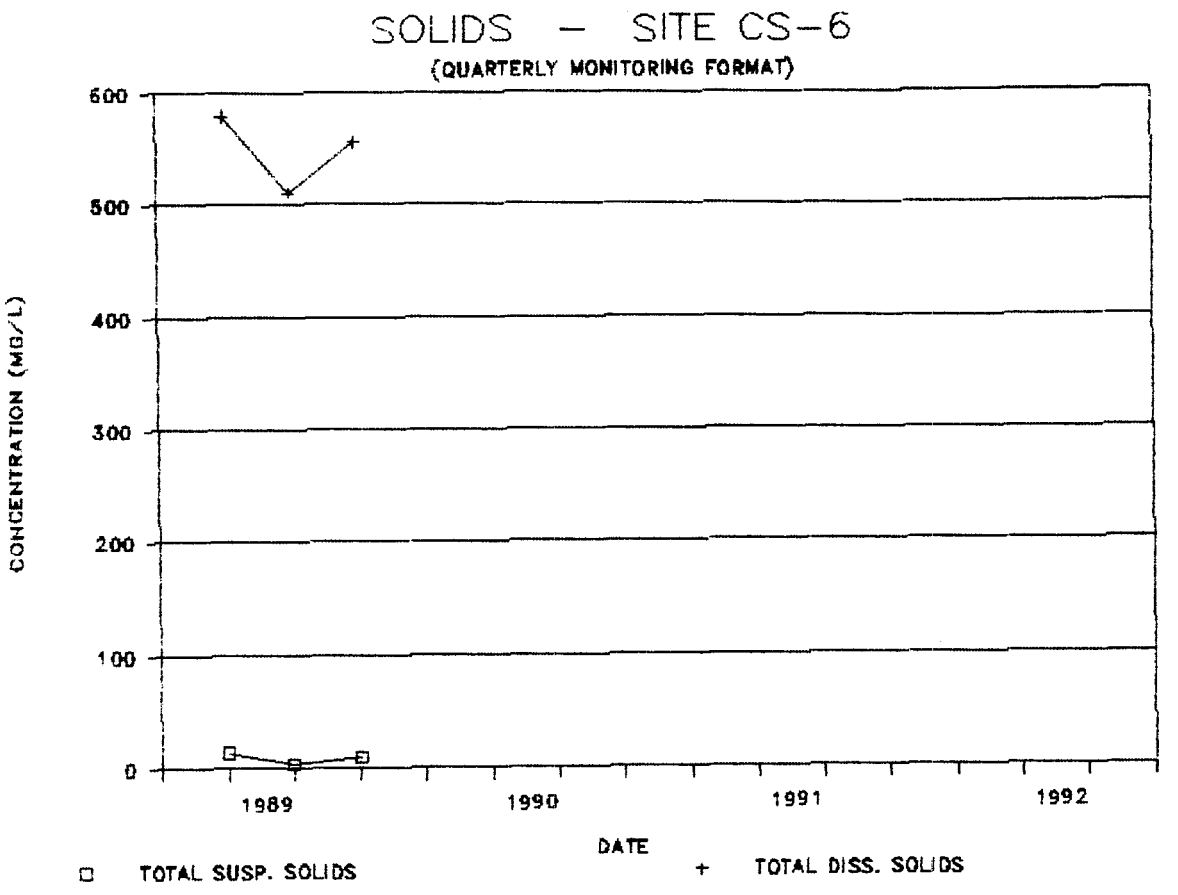

pH - SITE CS-6
(QUARTERLY MONITORING FORMAT)
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
pH (SU)
1989
1990
1991
1992
DATE

SOLIDS – SITE CS–6

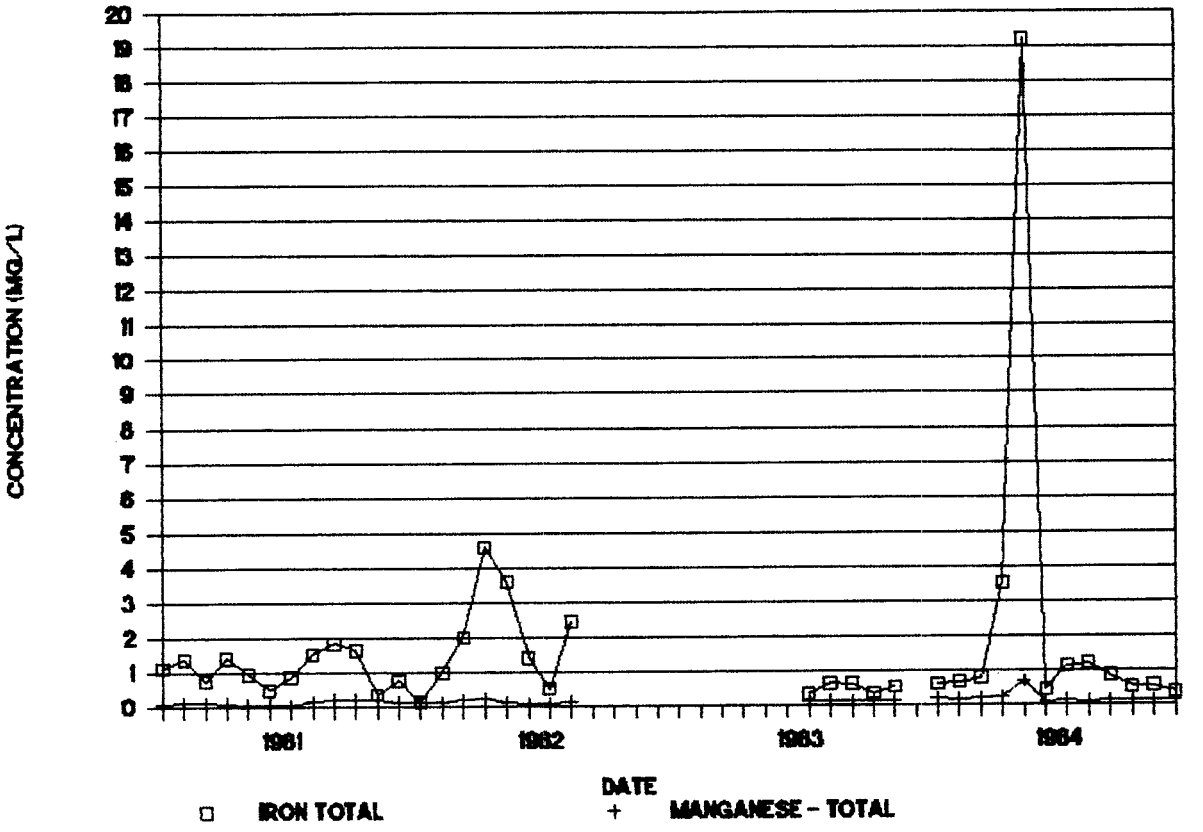


SOLIDS – SITE CS–6

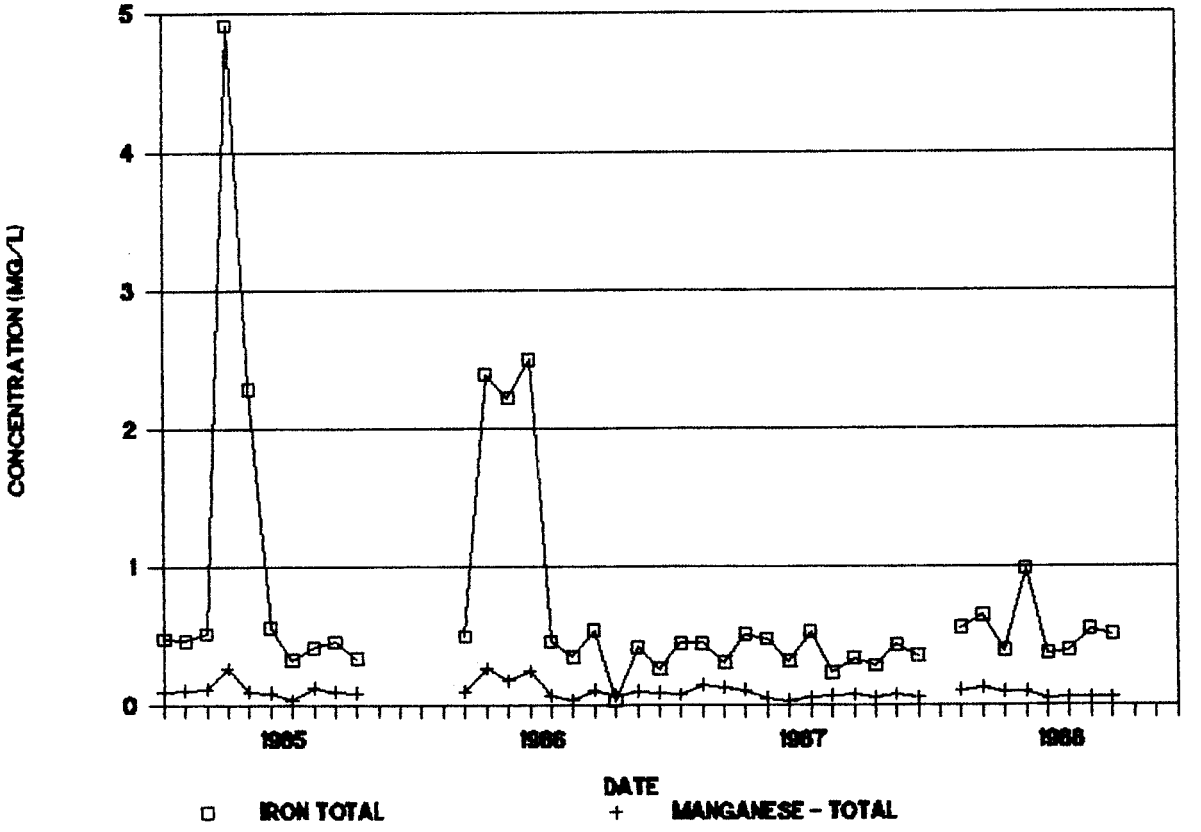


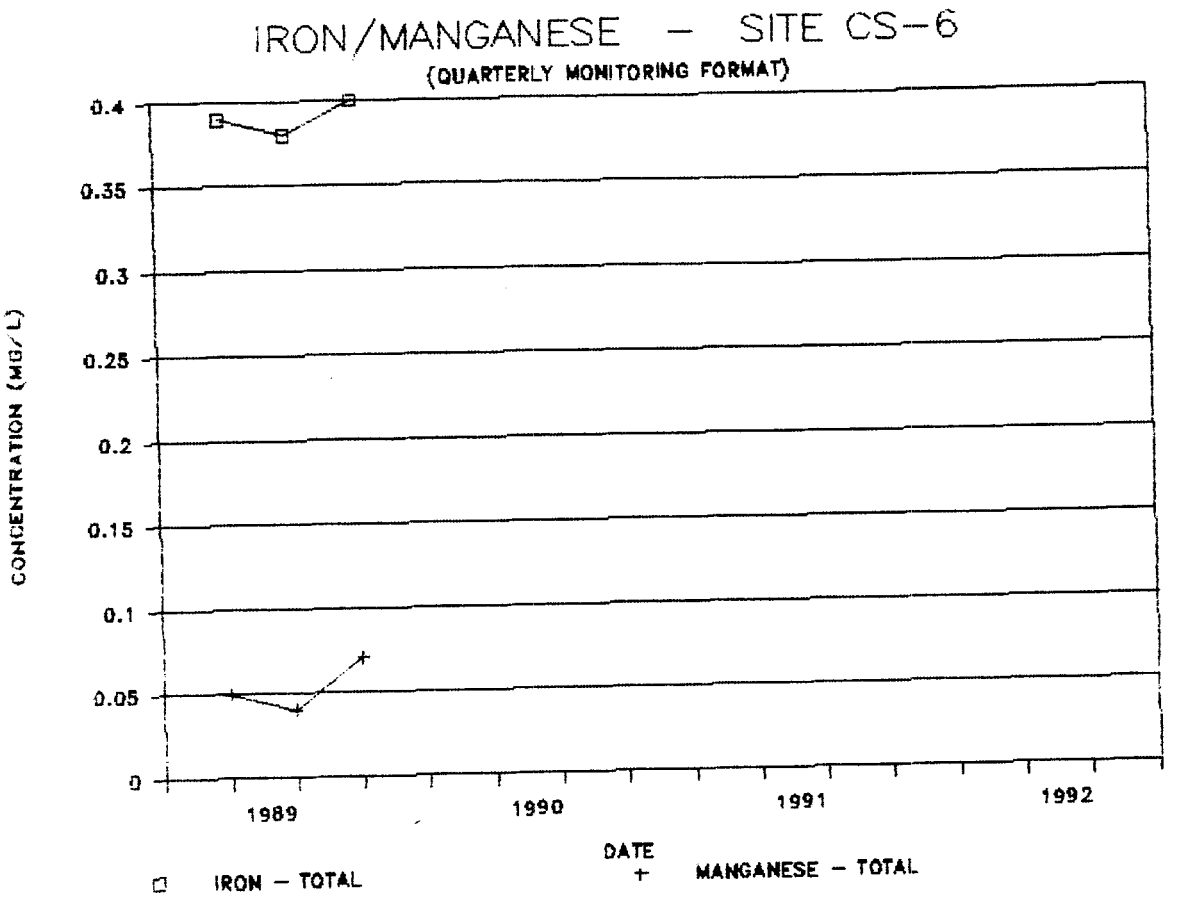

SOLIDS - SITE CS-6
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
600
500
400
300
200
100
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

IRON/MANGANESE – SITE CS–6

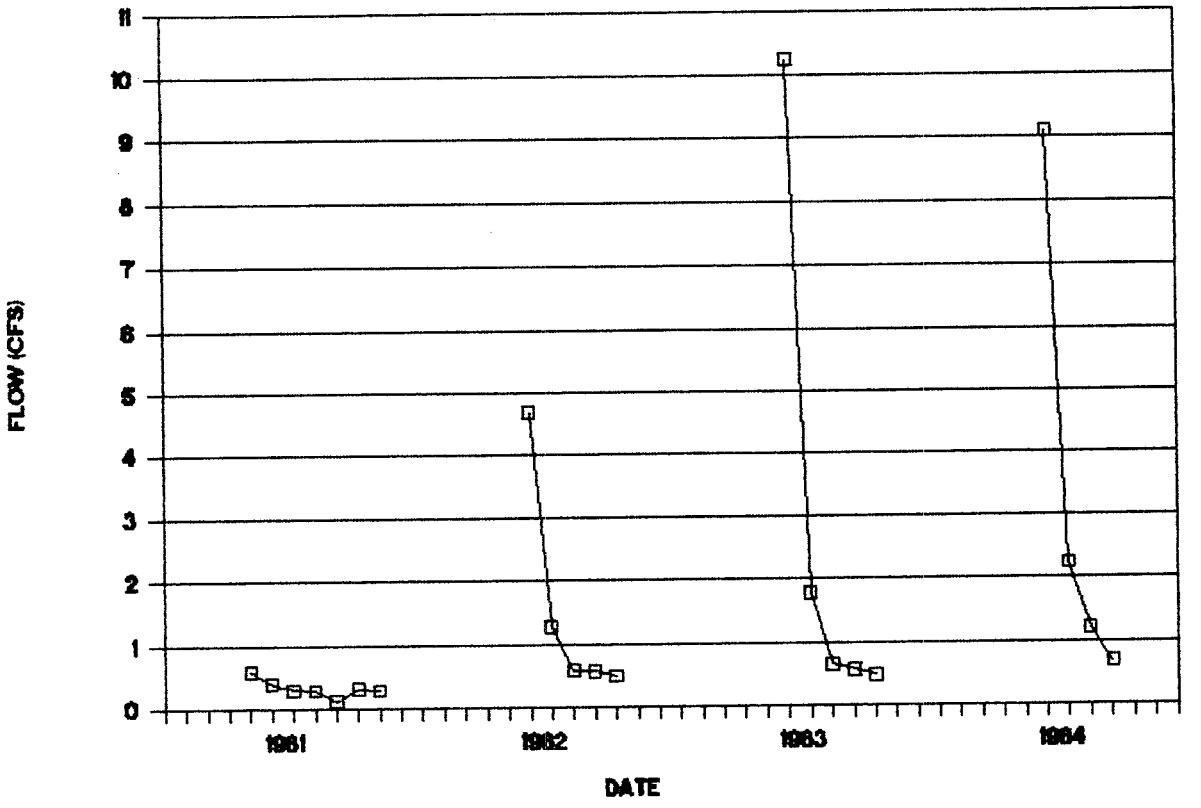


IRON/MANGANESE – SITE CS–6

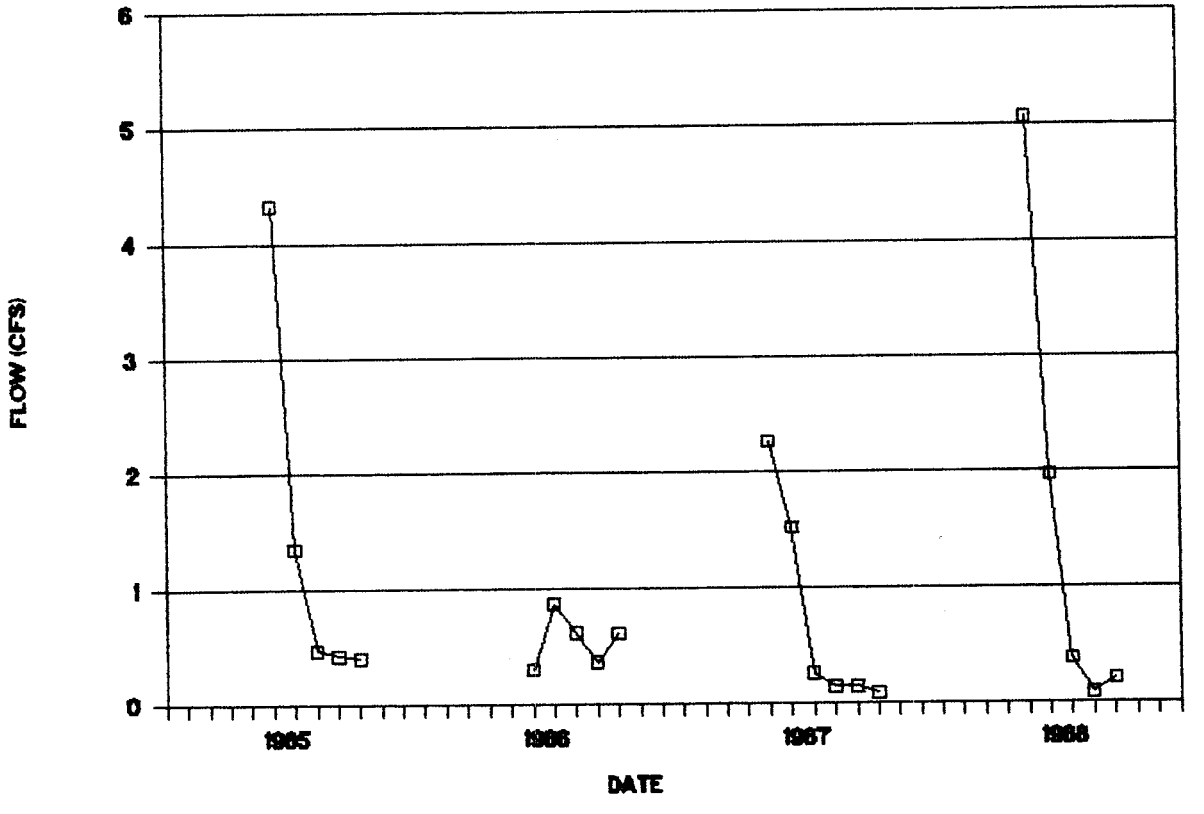


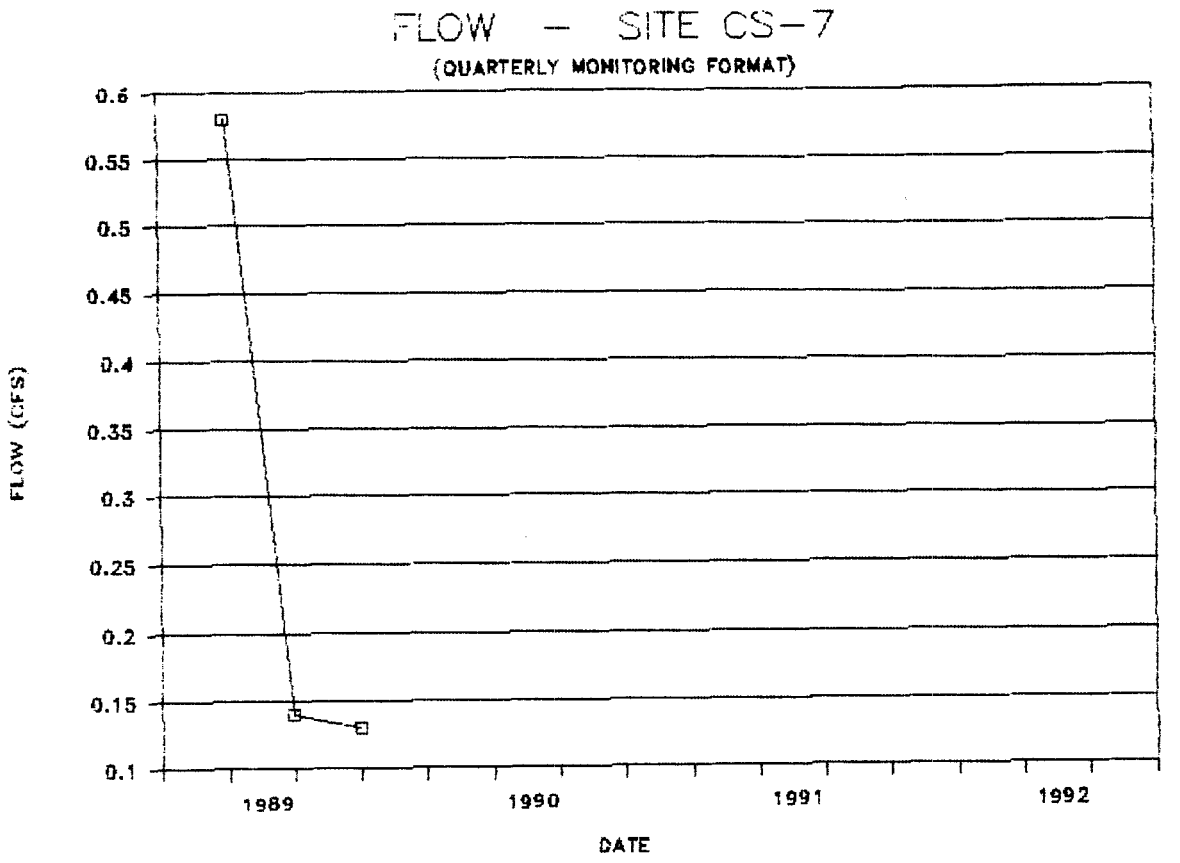

IRON/MANGANESE - SITE CS-6
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

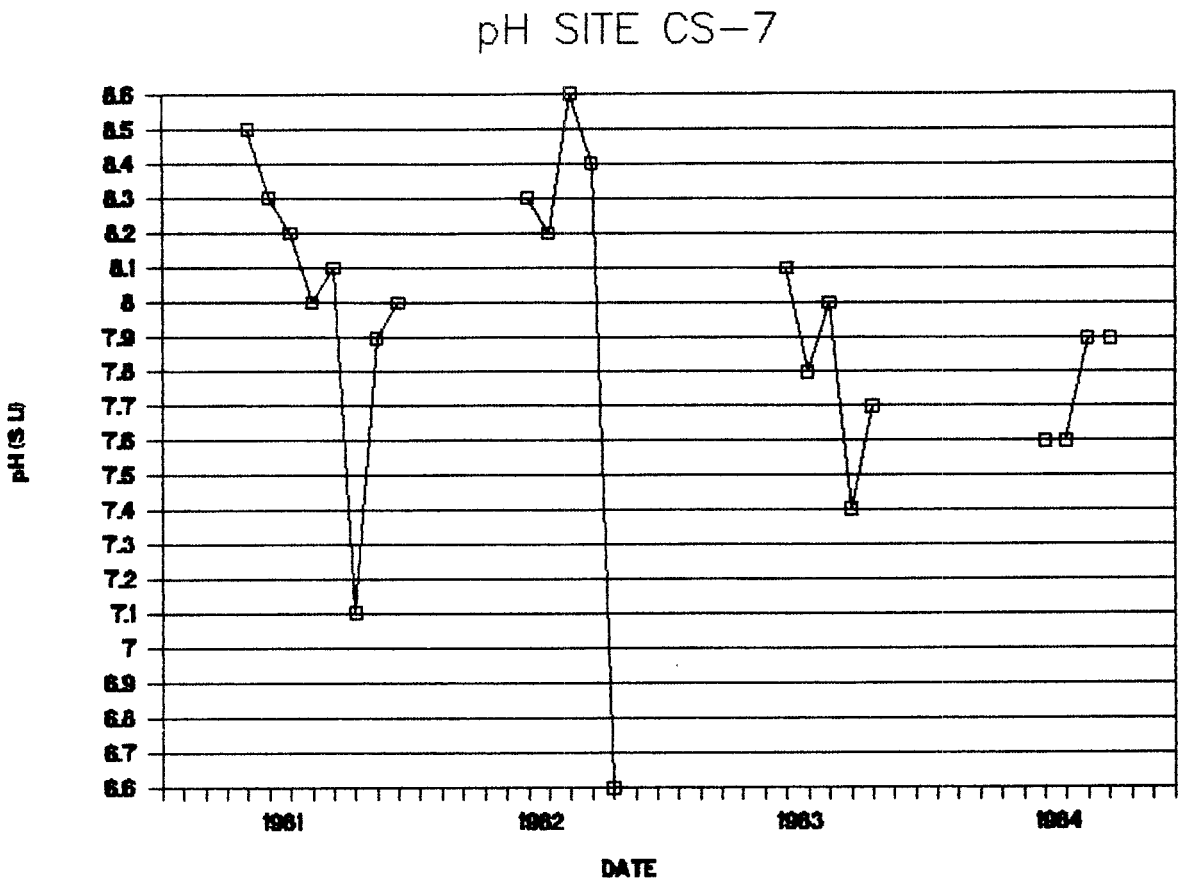
FLOW SITE CS-7

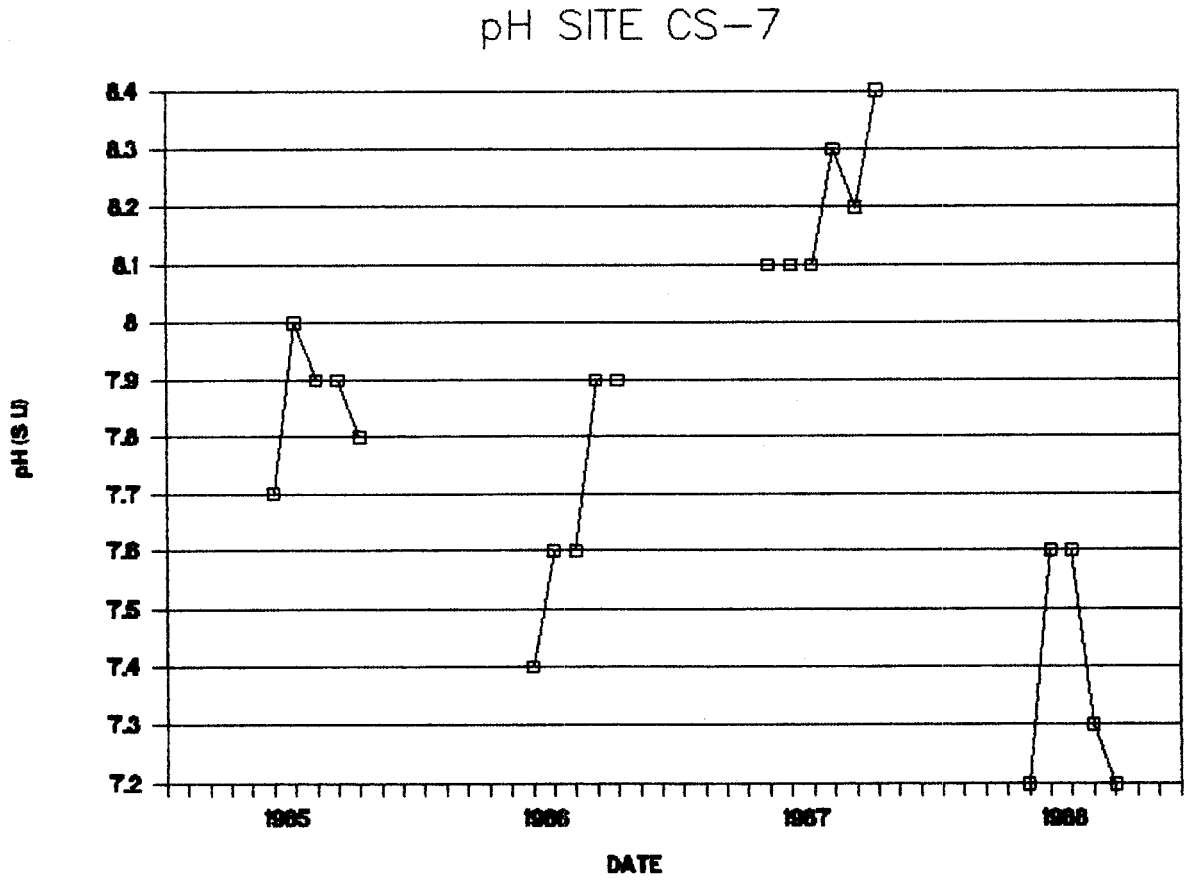


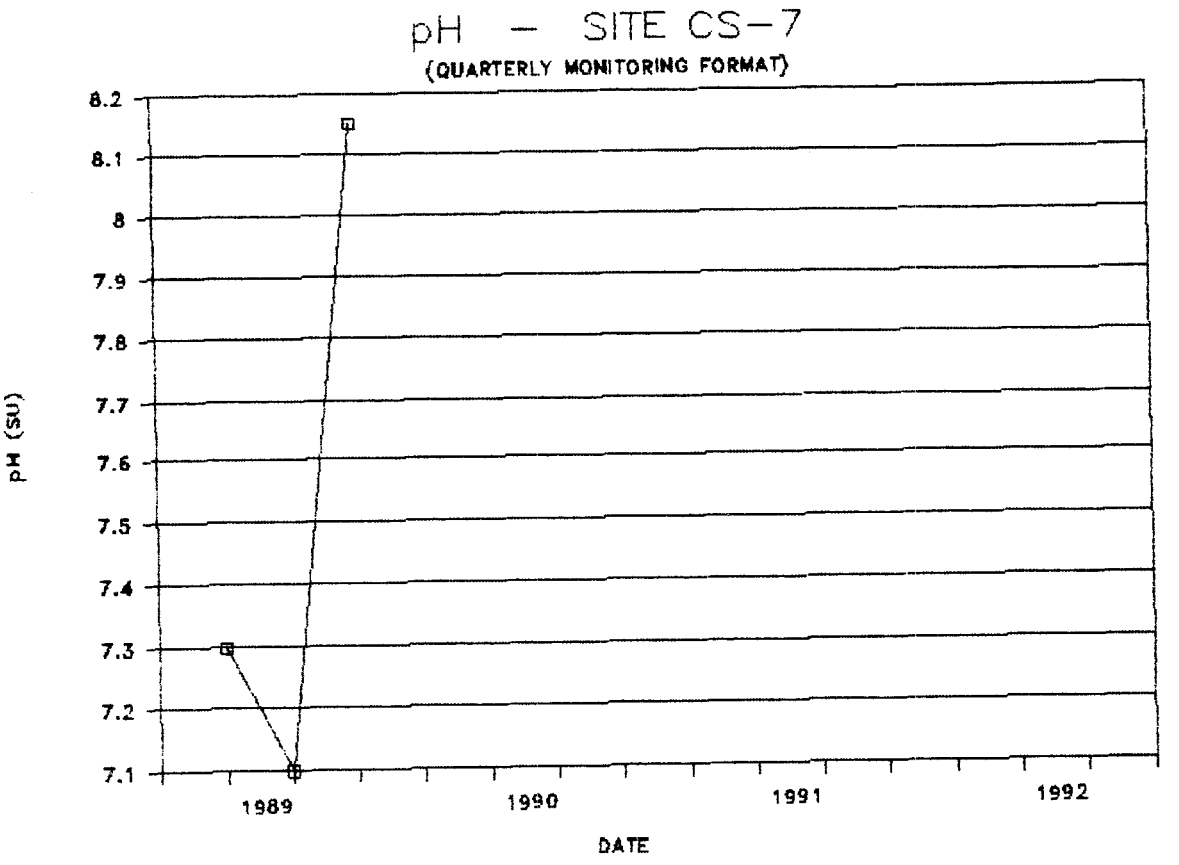
FLOW SITE CS-7

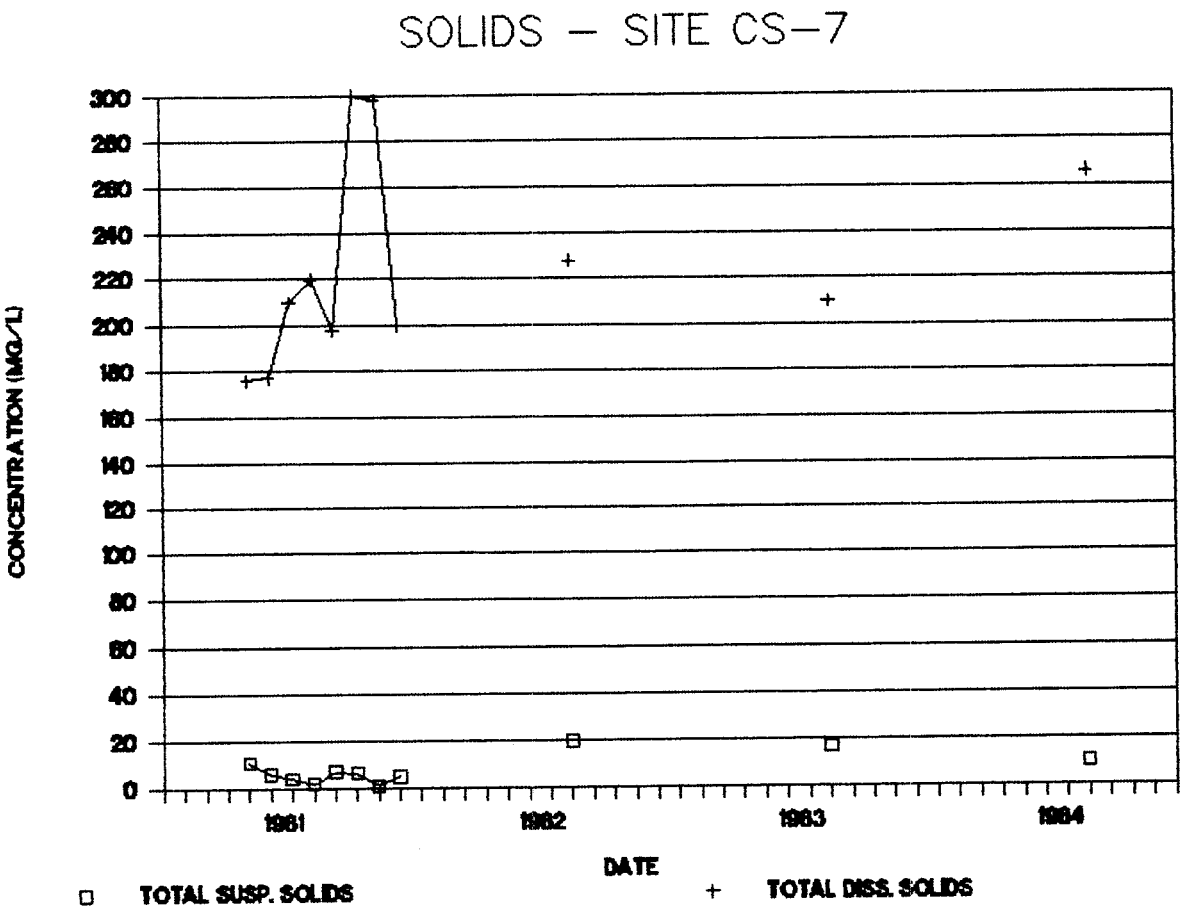


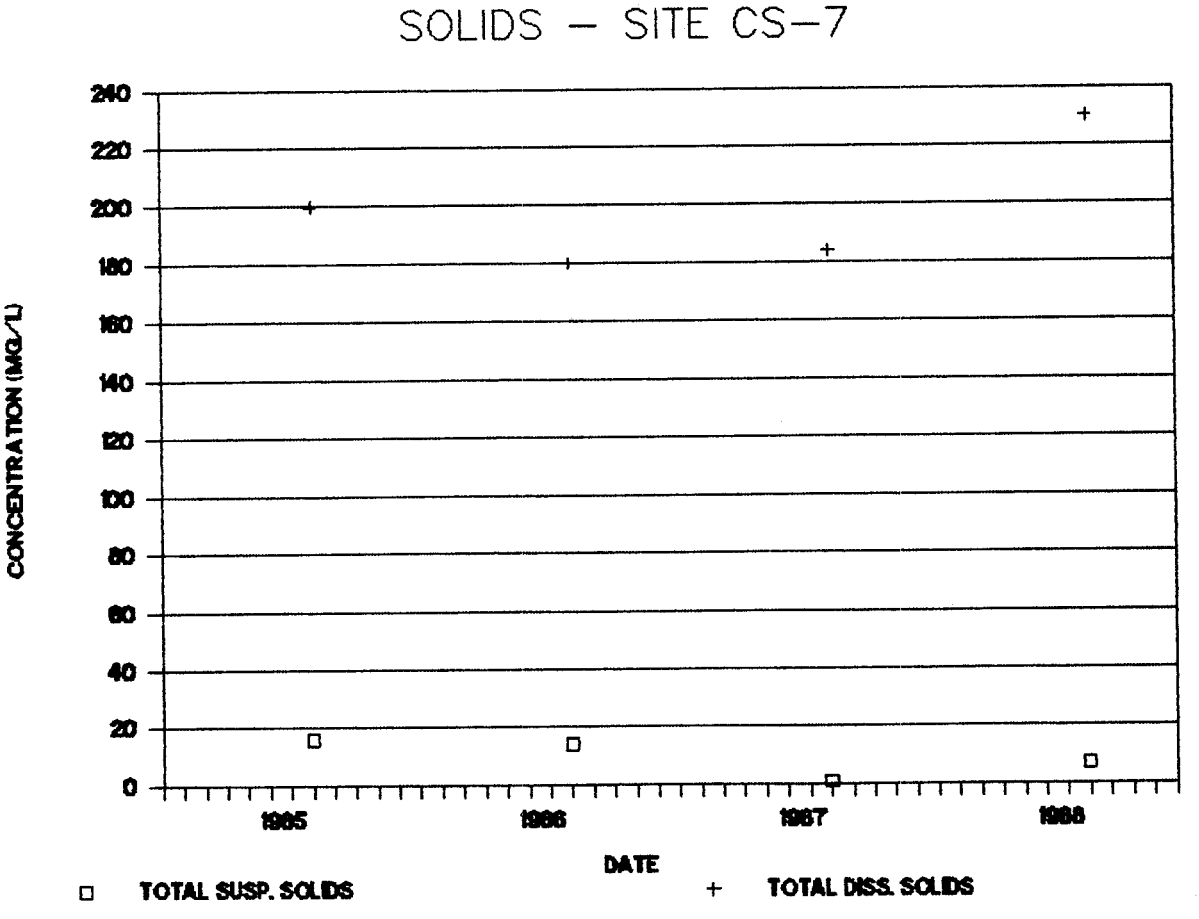

FLOW - SITE CS-7
(QUARTERLY MONITORING FORMAT)
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
FLOW (CFS)
1989
1990
1991
1992
DATE

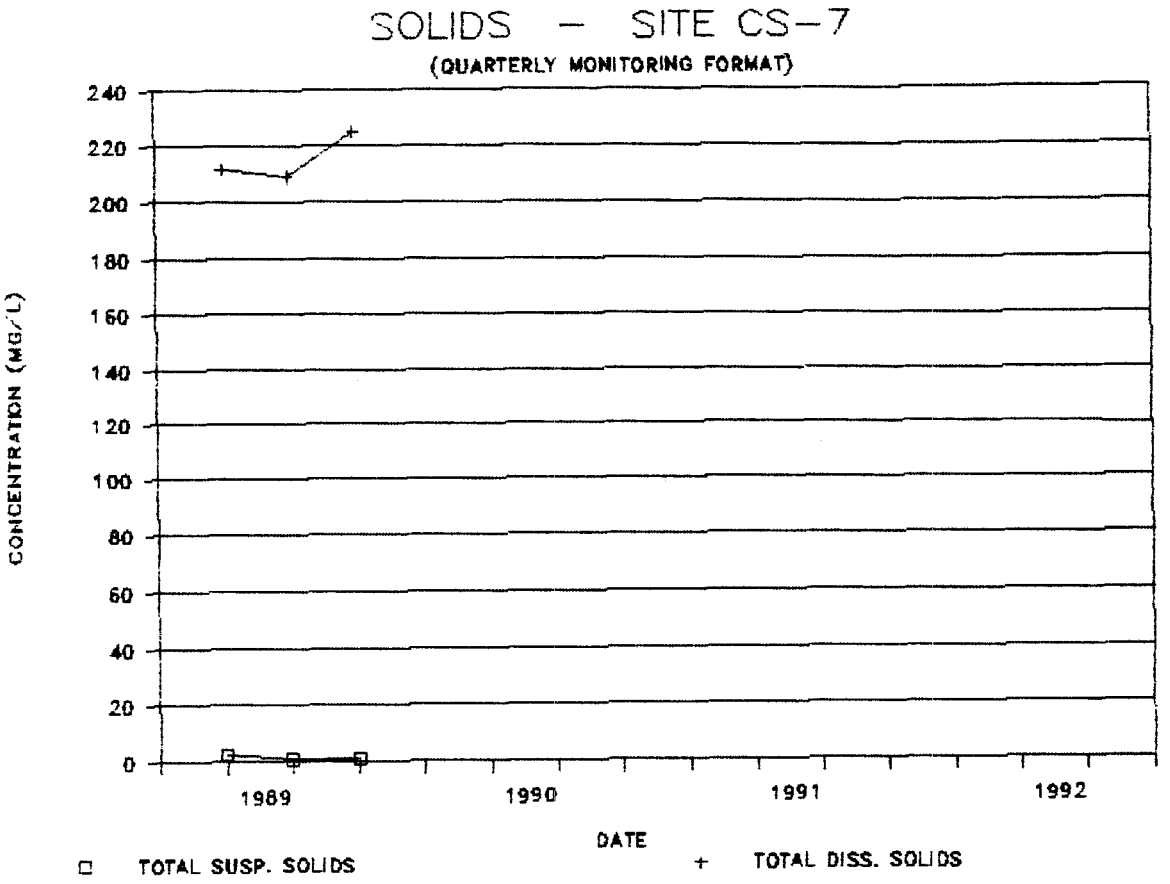

pH SITE CS-7
pH (S U)
8.6
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
1981
1982
1983
1984
DATE

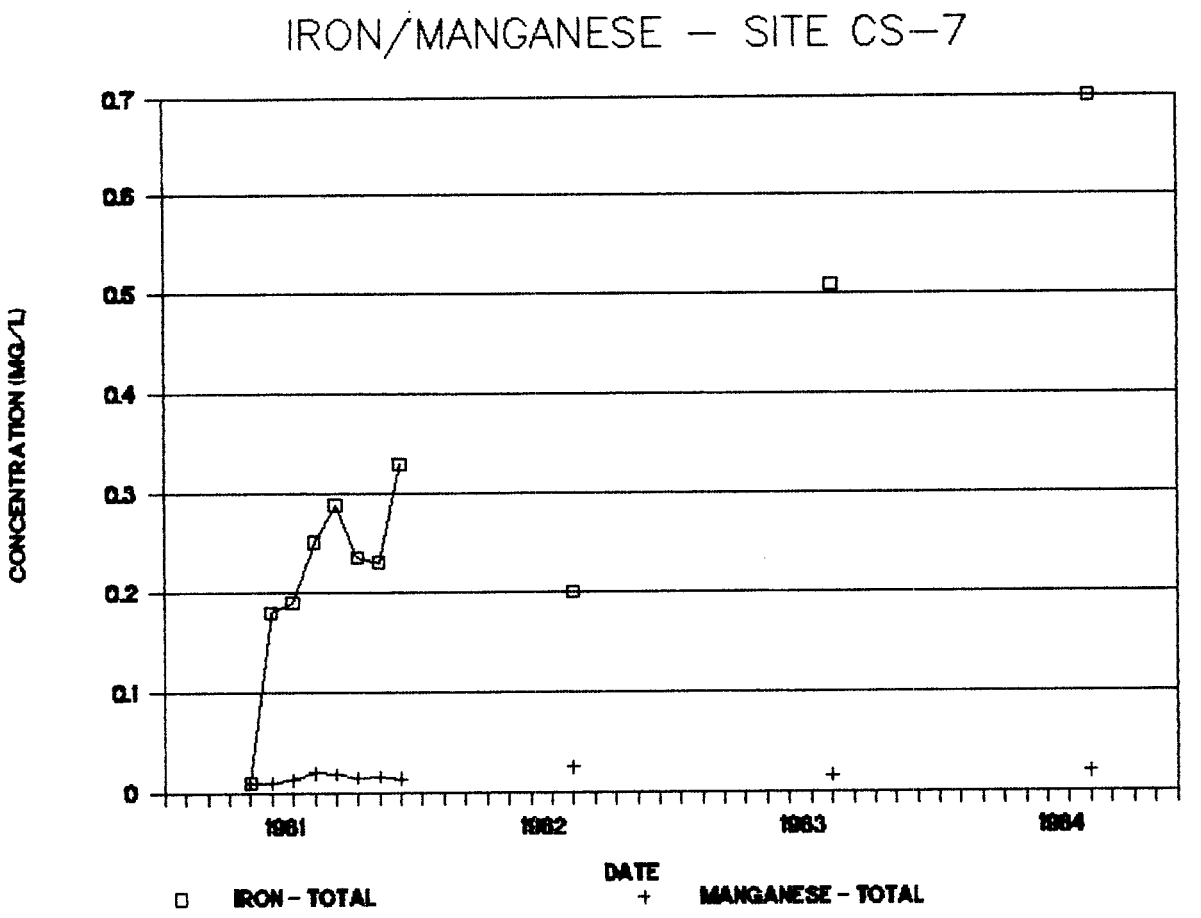

pH SITE CS-7
pH (S U)
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
1985
1986
1987
1988
DATE

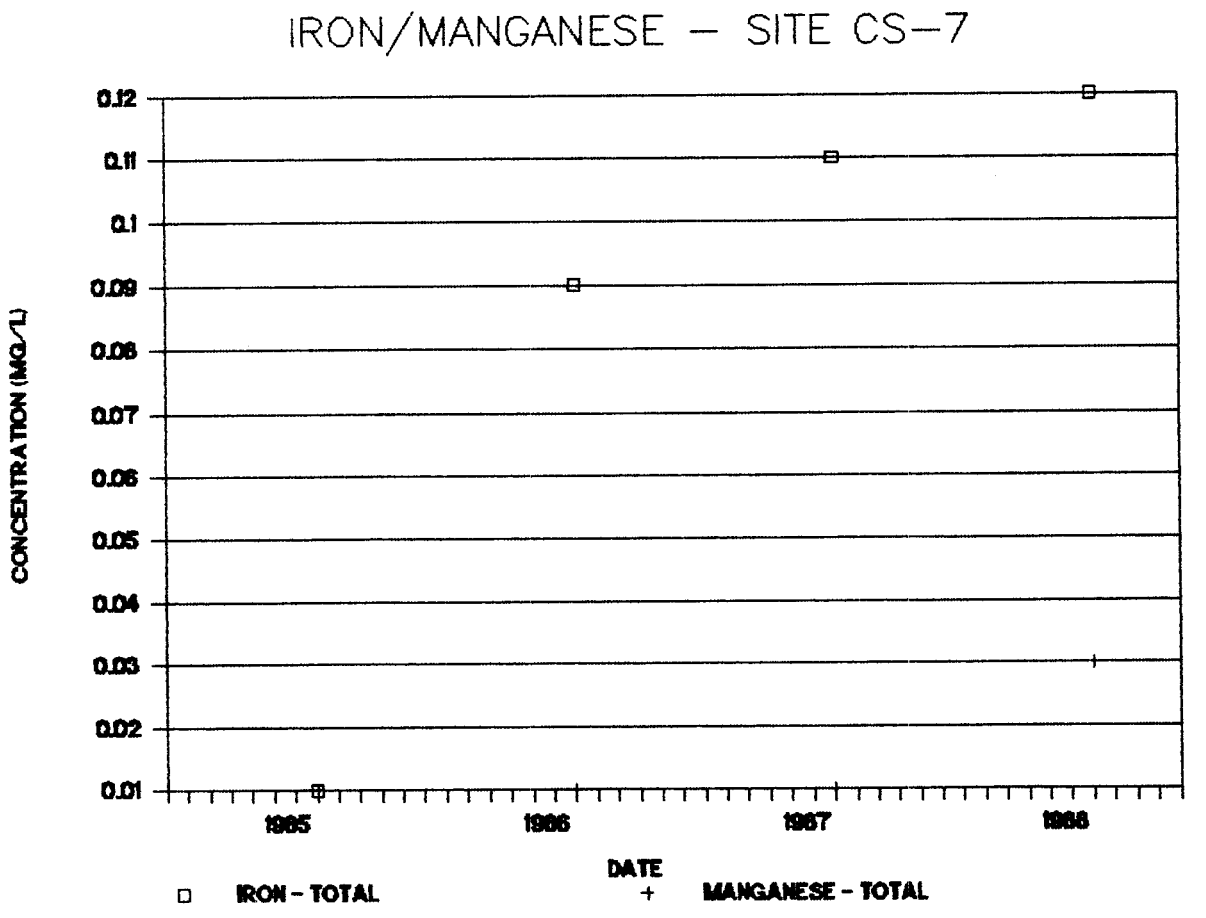

pH - SITE CS-7
(QUARTERLY MONITORING FORMAT)
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
pH (SU)
1989
1990
1991
1992
DATE

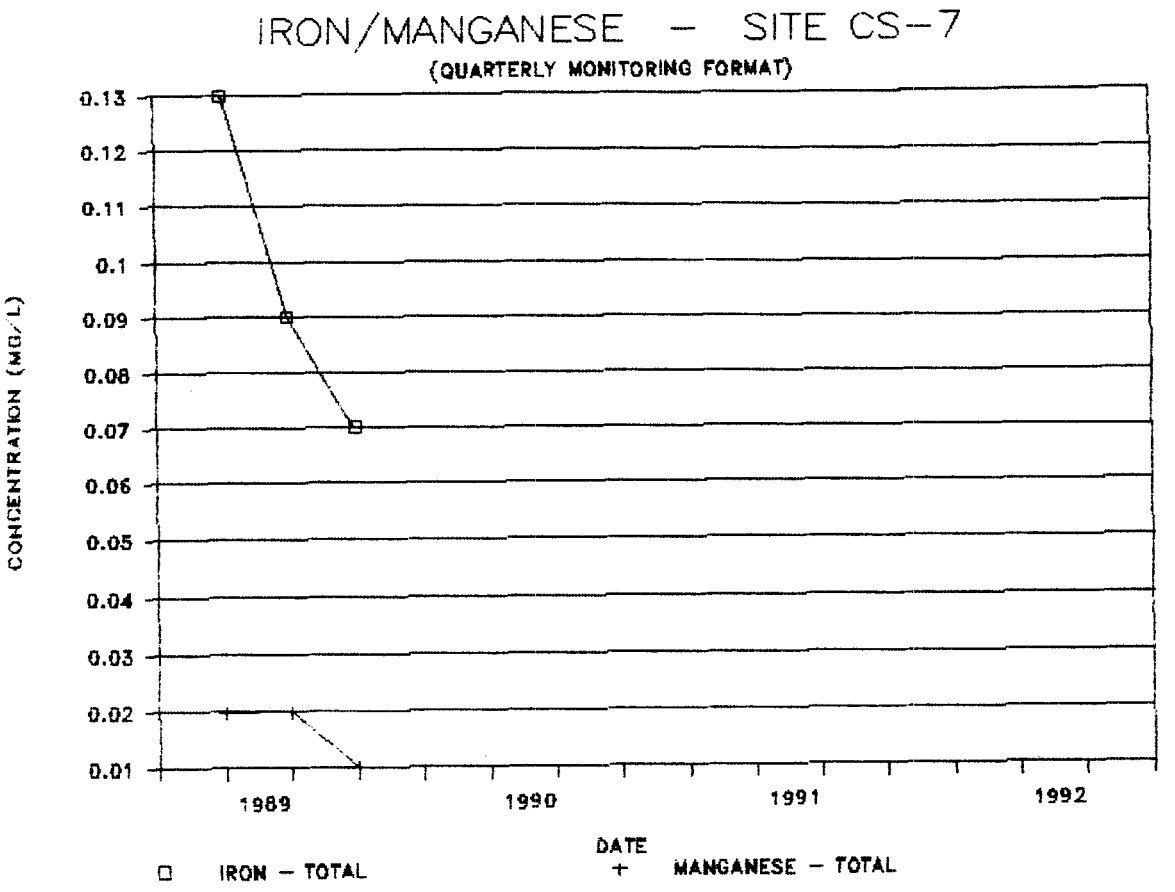

SOLIDS – SITE CS–7
CONCENTRATION (MG/L)
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


SOLIDS – SITE CS–7
CONCENTRATION (MG/L)
240
220
200
180
160
140
120
100
80
60
40
20
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

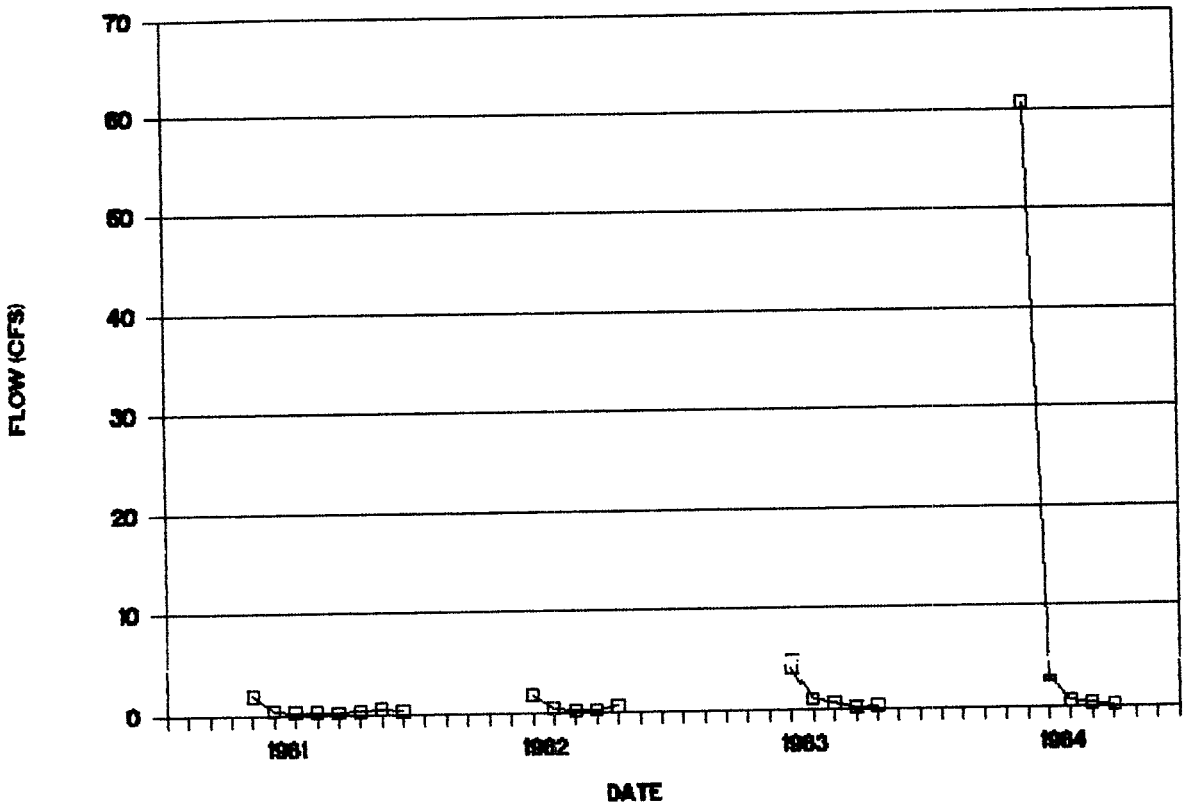

SOLIDS - SITE CS-7
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


IRON/MANGANESE – SITE CS–7
CONCENTRATION (MG/L)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1981
1982
1983
1984
DATE
IRON – TOTAL
MANGANESE – TOTAL

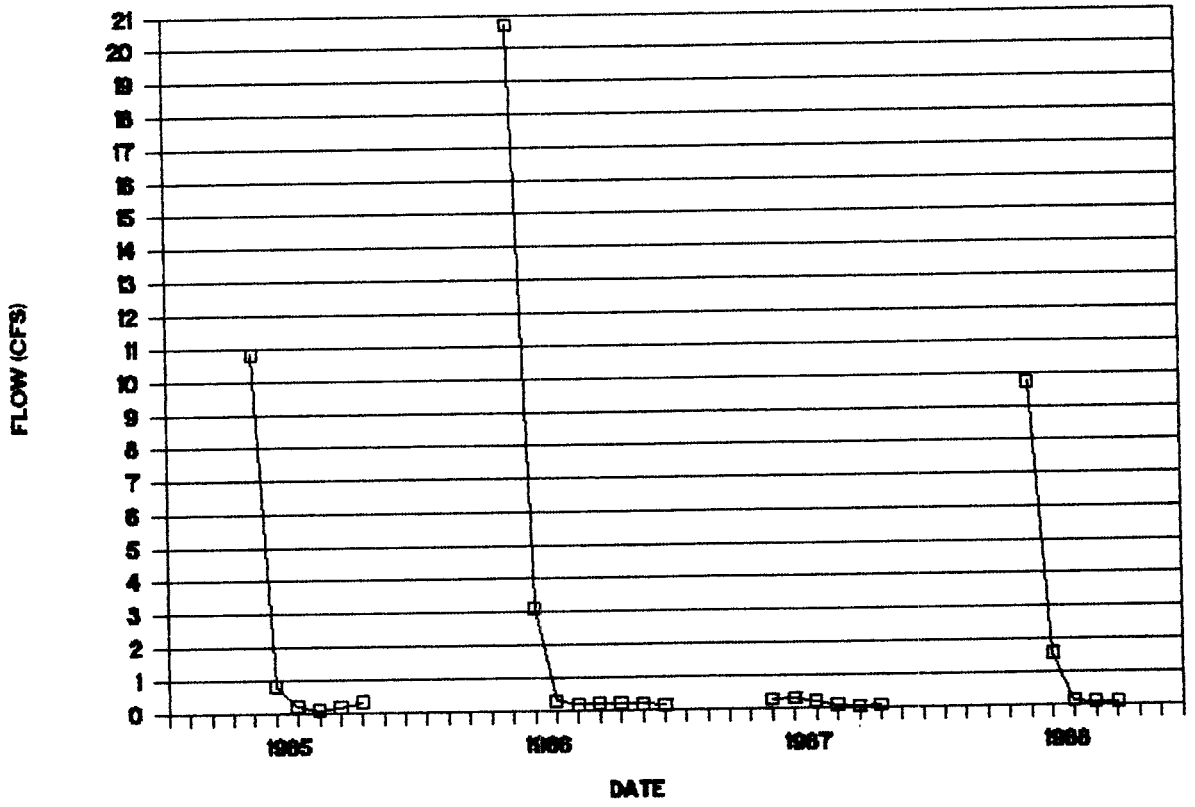

IRON/MANGANESE – SITE CS–7
CONCENTRATION (MG/L)
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
1985
1986
1987
1988
DATE
IRON – TOTAL
MANGANESE – TOTAL

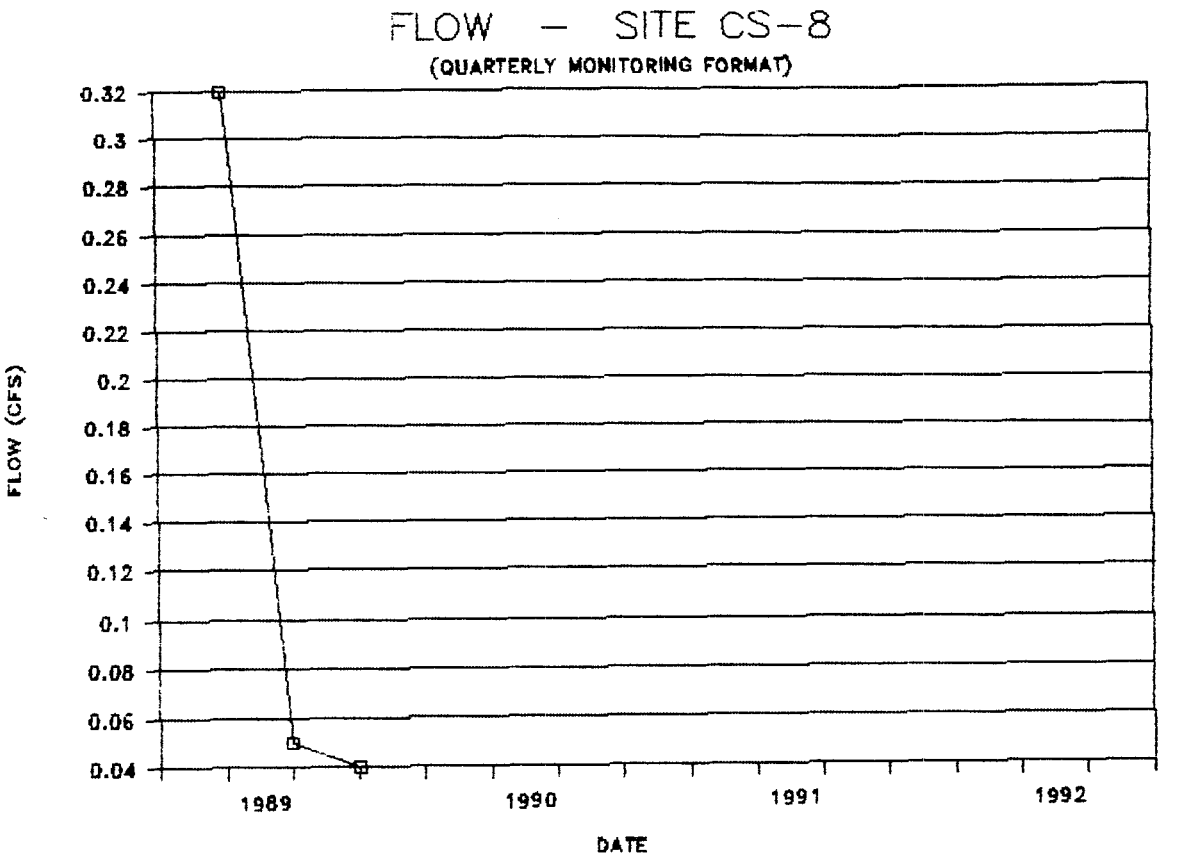

IRON/MANGANESE - SITE CS-7
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

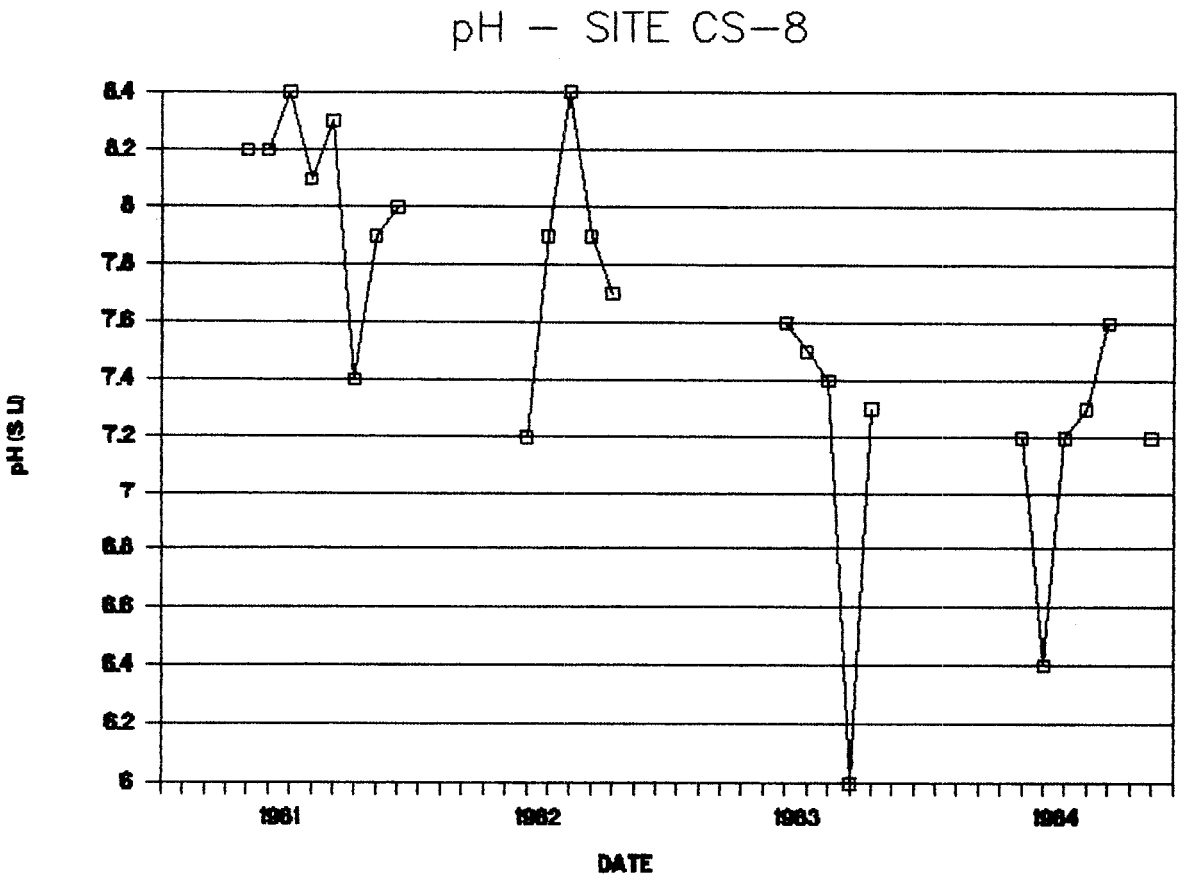
FLOW — SITE CS—8

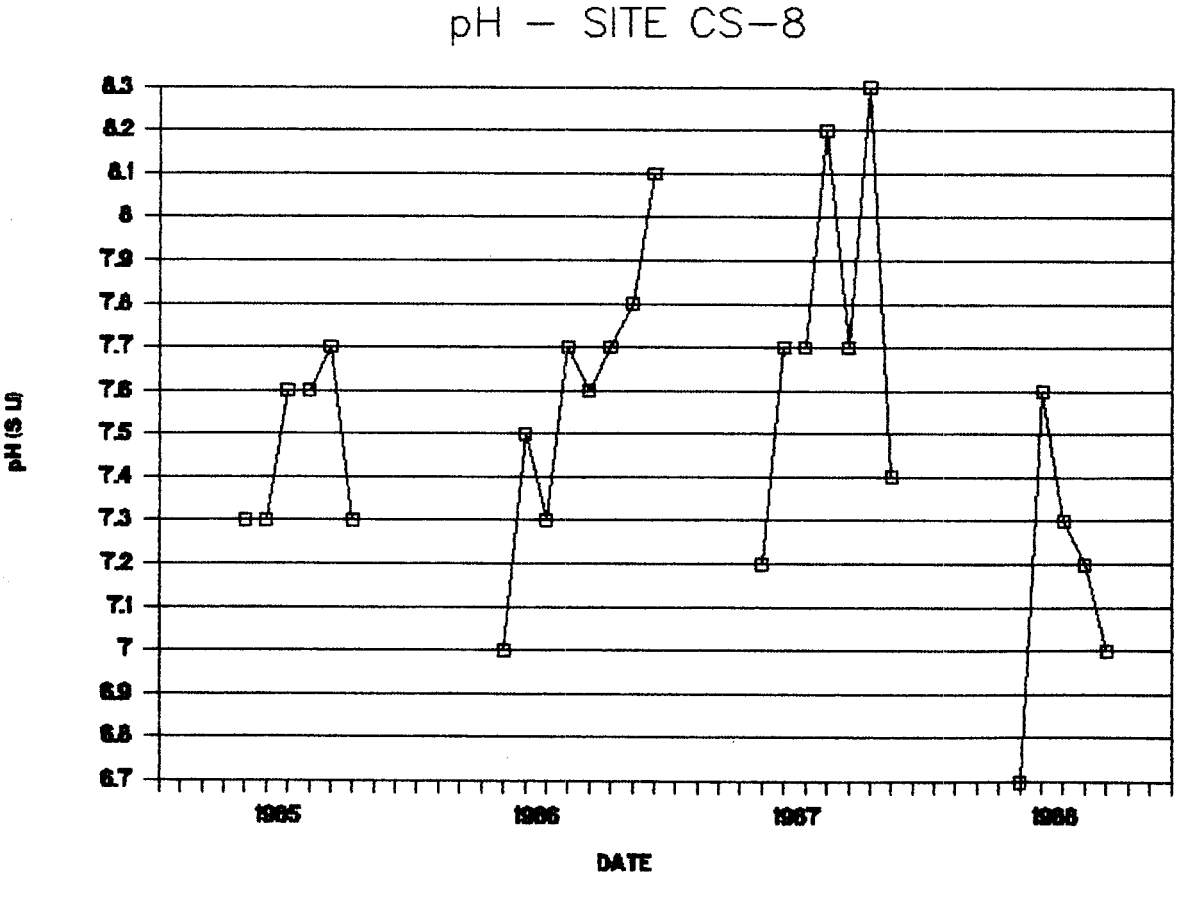


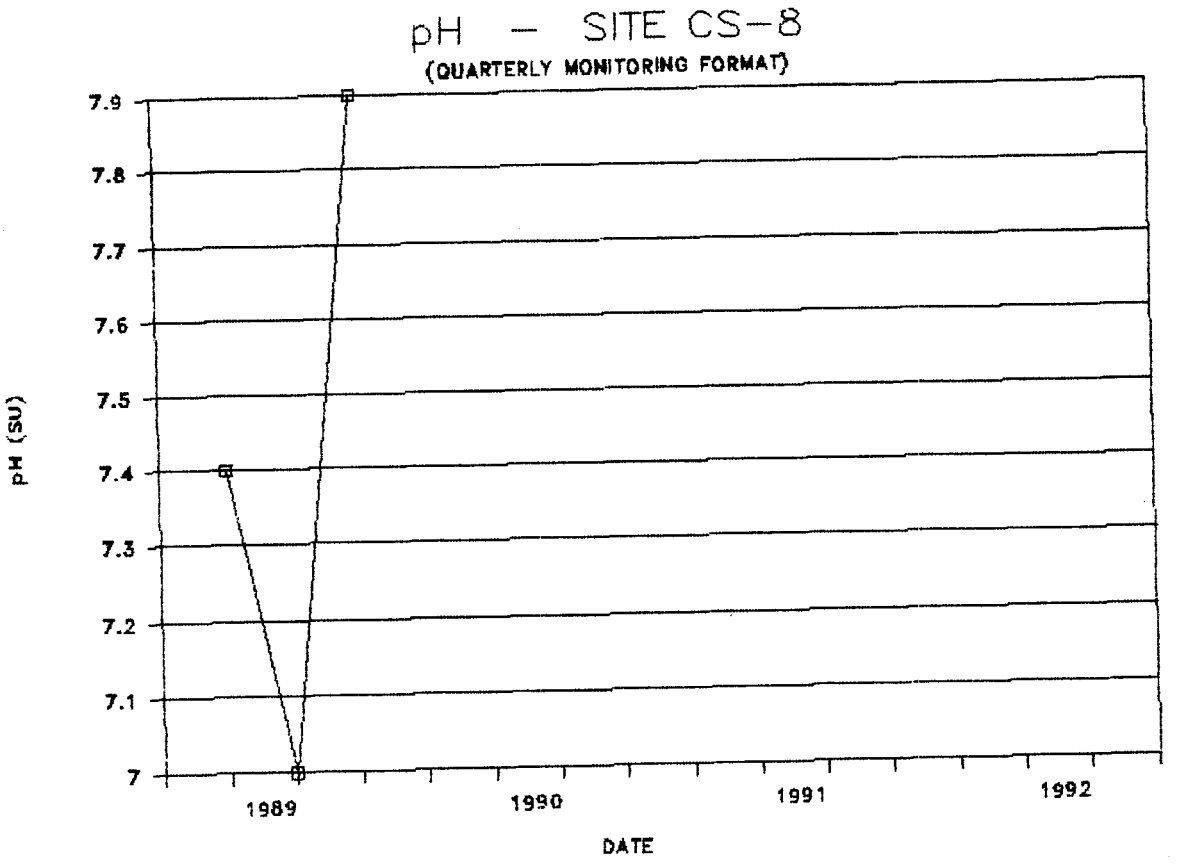
FLOW — SITE CS—8



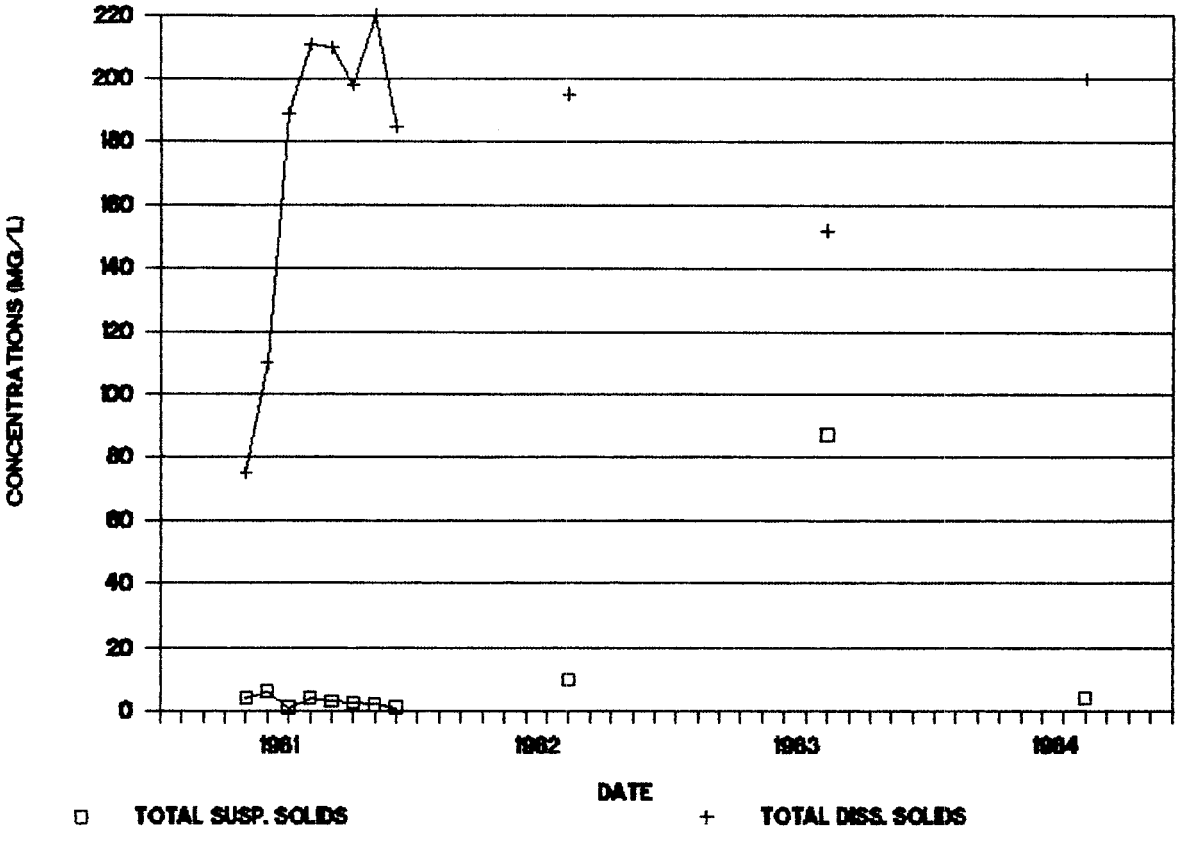

FLOW - SITE CS-8
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
1989
1990
1991
1992
DATE


pH – SITE CS–8
pH (S.U.)
8.4
8.2
8
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4
6.2
6
1981
1982
1983
1984
DATE

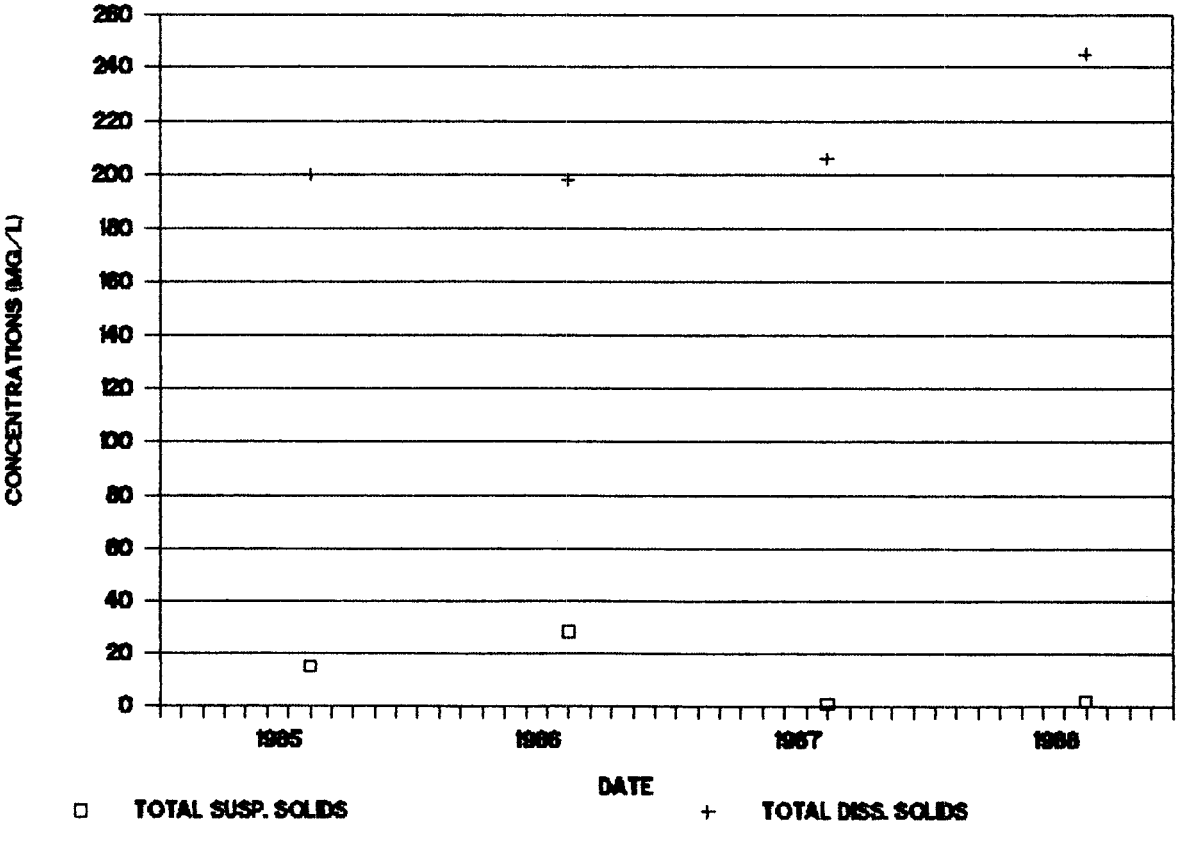

pH – SITE CS–8
pH (S.U.)
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
1985
1986
1987
1988
DATE

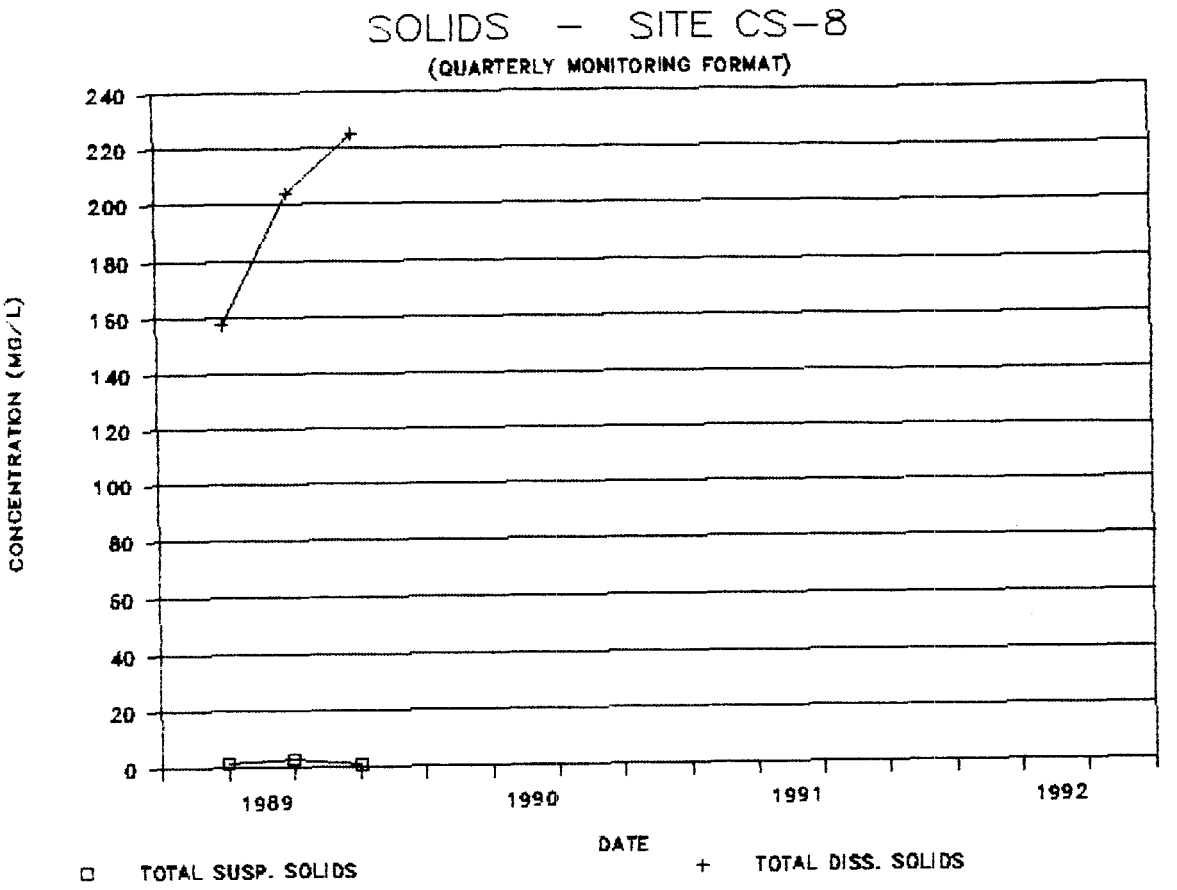

pH - SITE CS-8
(QUARTERLY MONITORING FORMAT)
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
pH (SU)
1989
1990
1991
1992
DATE

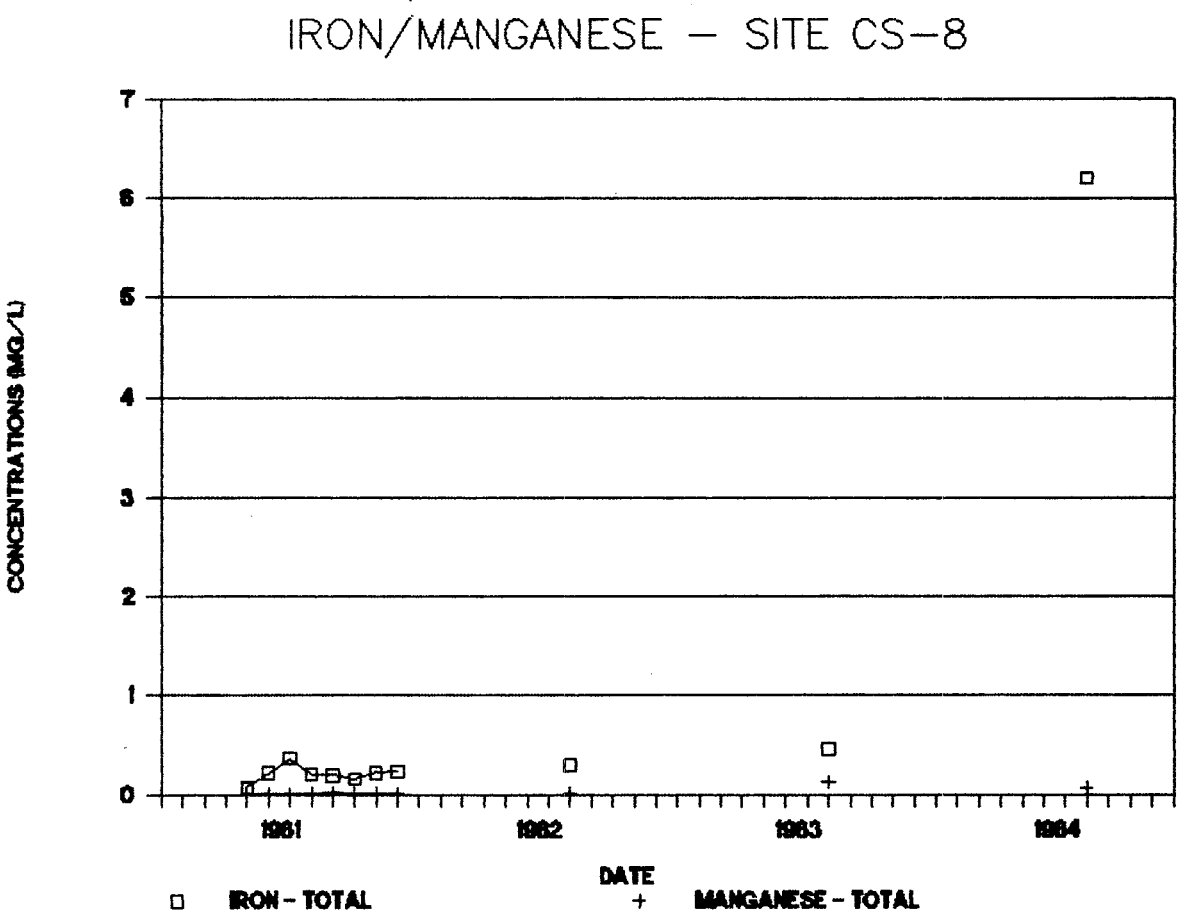
SOLIDS – SITE CS–8

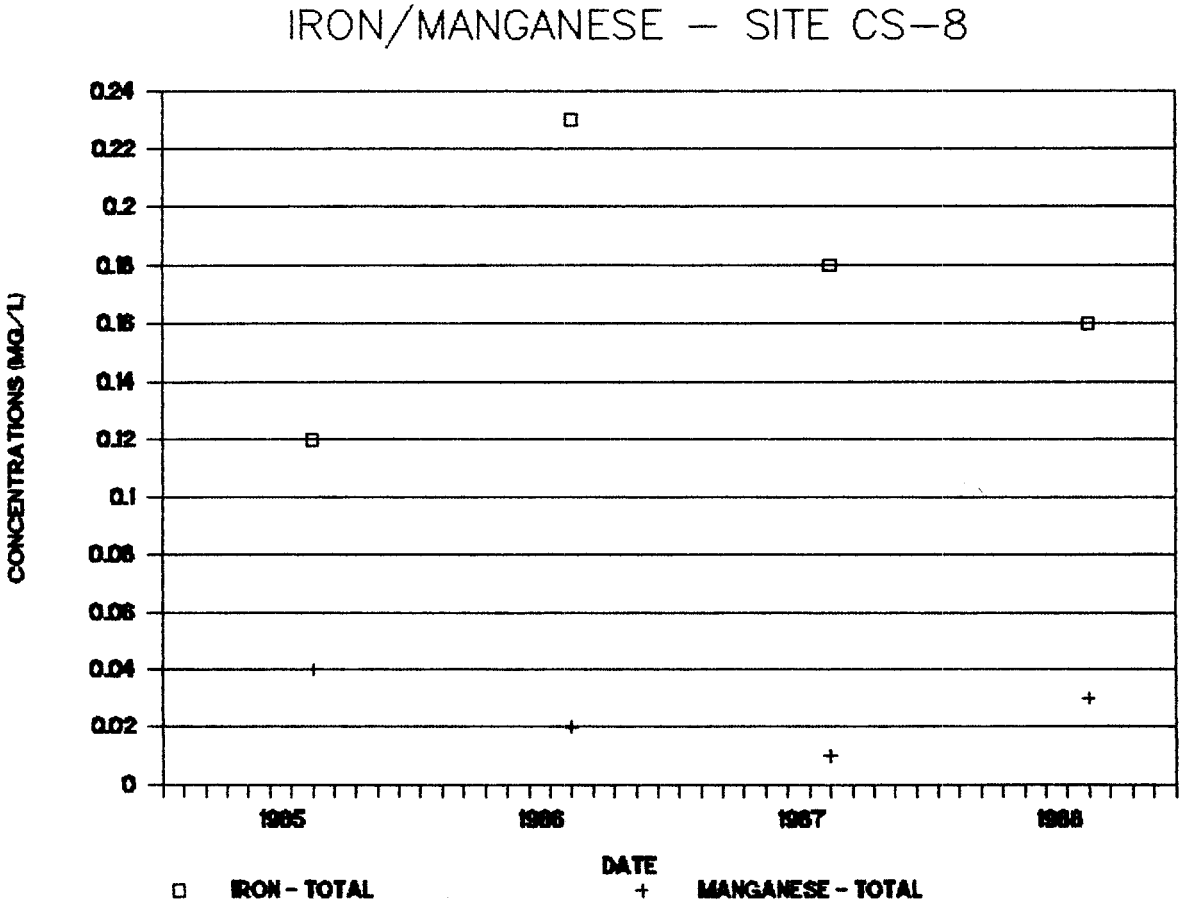


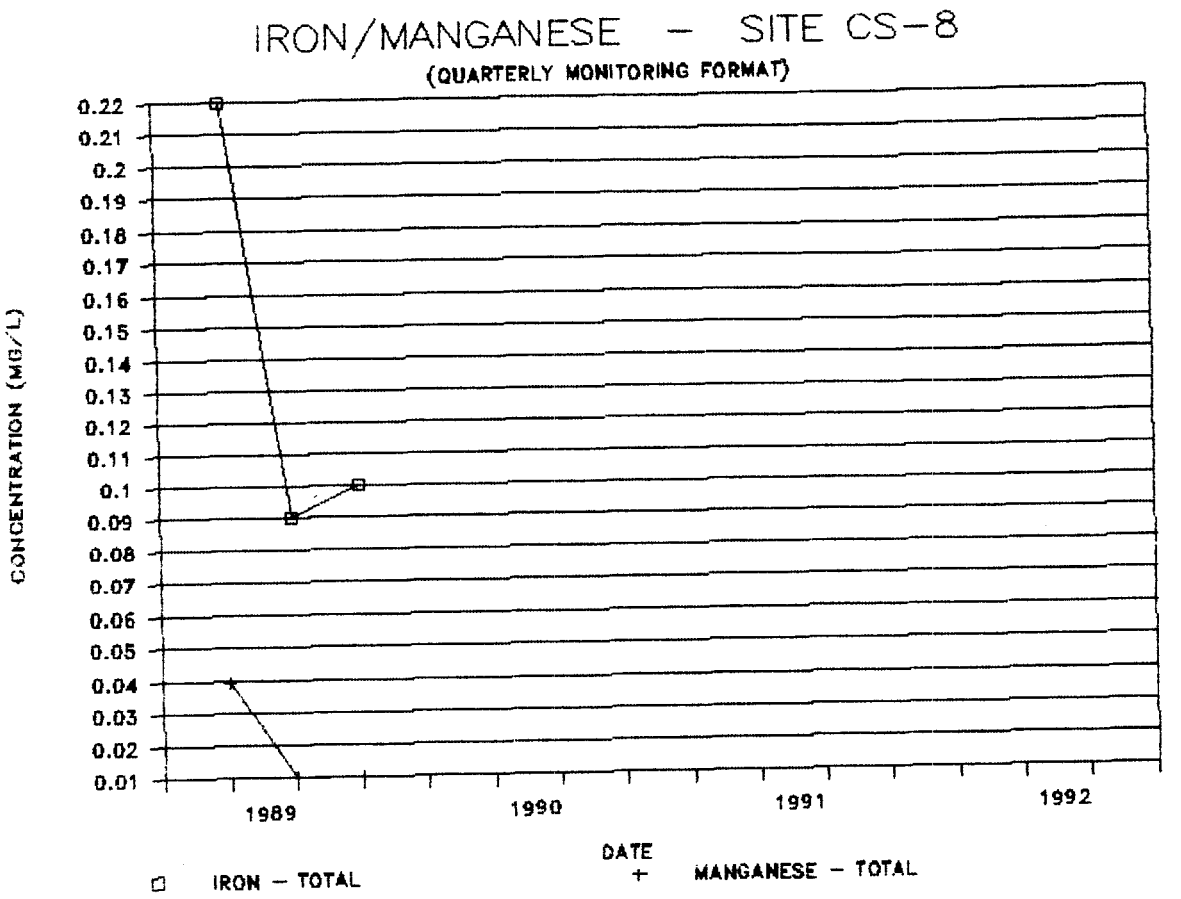
SOLIDS – SITE CS–8

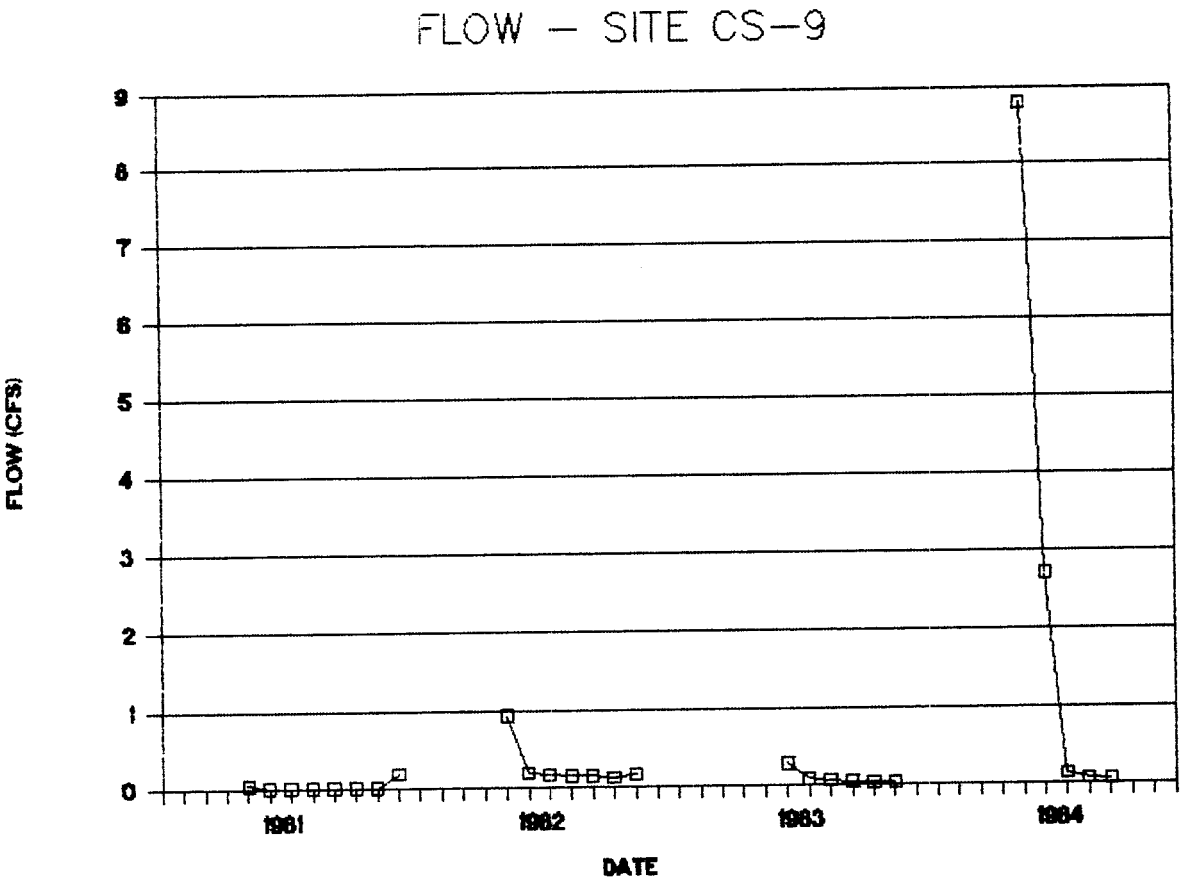


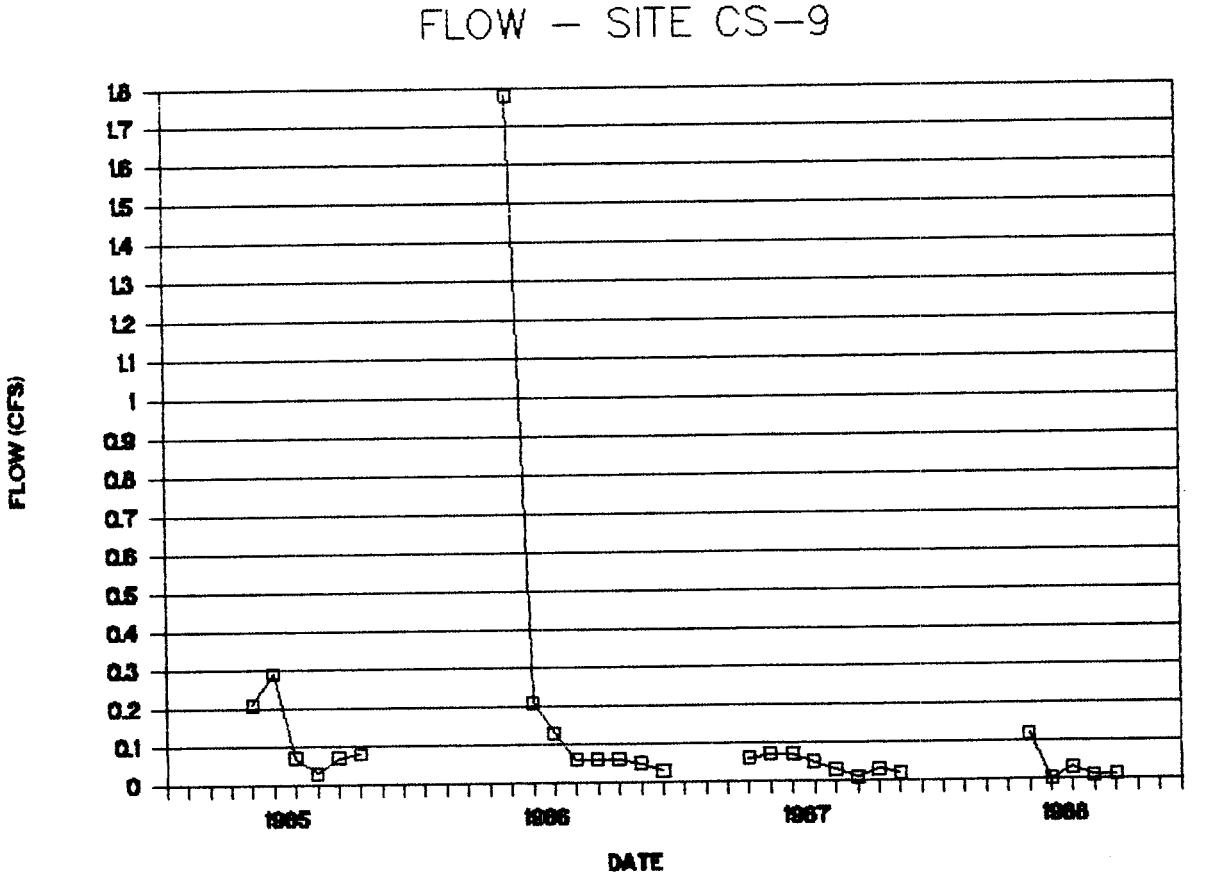

SOLIDS - SITE CS-8
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

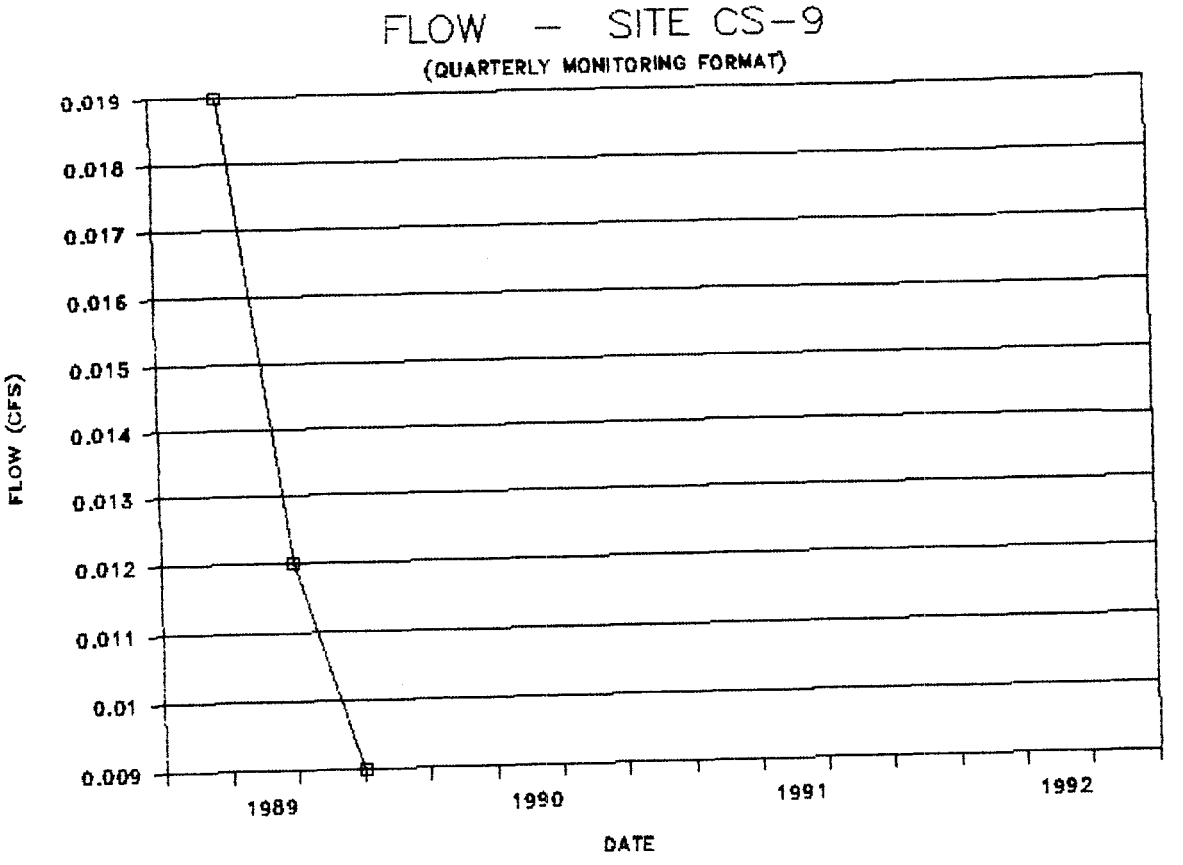

IRON/MANGANESE – SITE CS–8
CONCENTRATIONS (MG/L)
7
6
5
4
3
2
1
0
1981
1982
1983
1984
DATE
IRON – TOTAL
MANGANESE – TOTAL

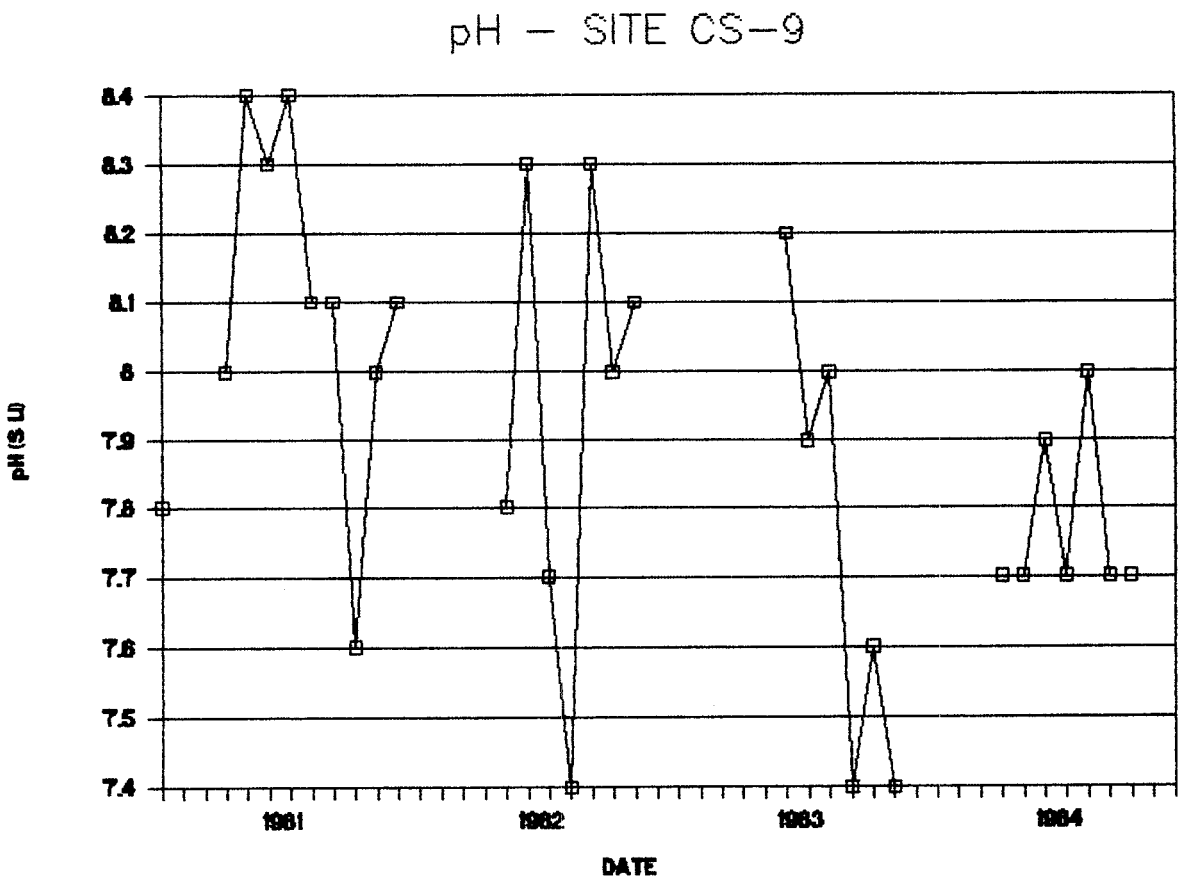

IRON/MANGANESE – SITE CS–8
CONCENTRATIONS (MG/L)
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1985
1986
1987
1988
DATE
IRON – TOTAL
MANGANESE – TOTAL

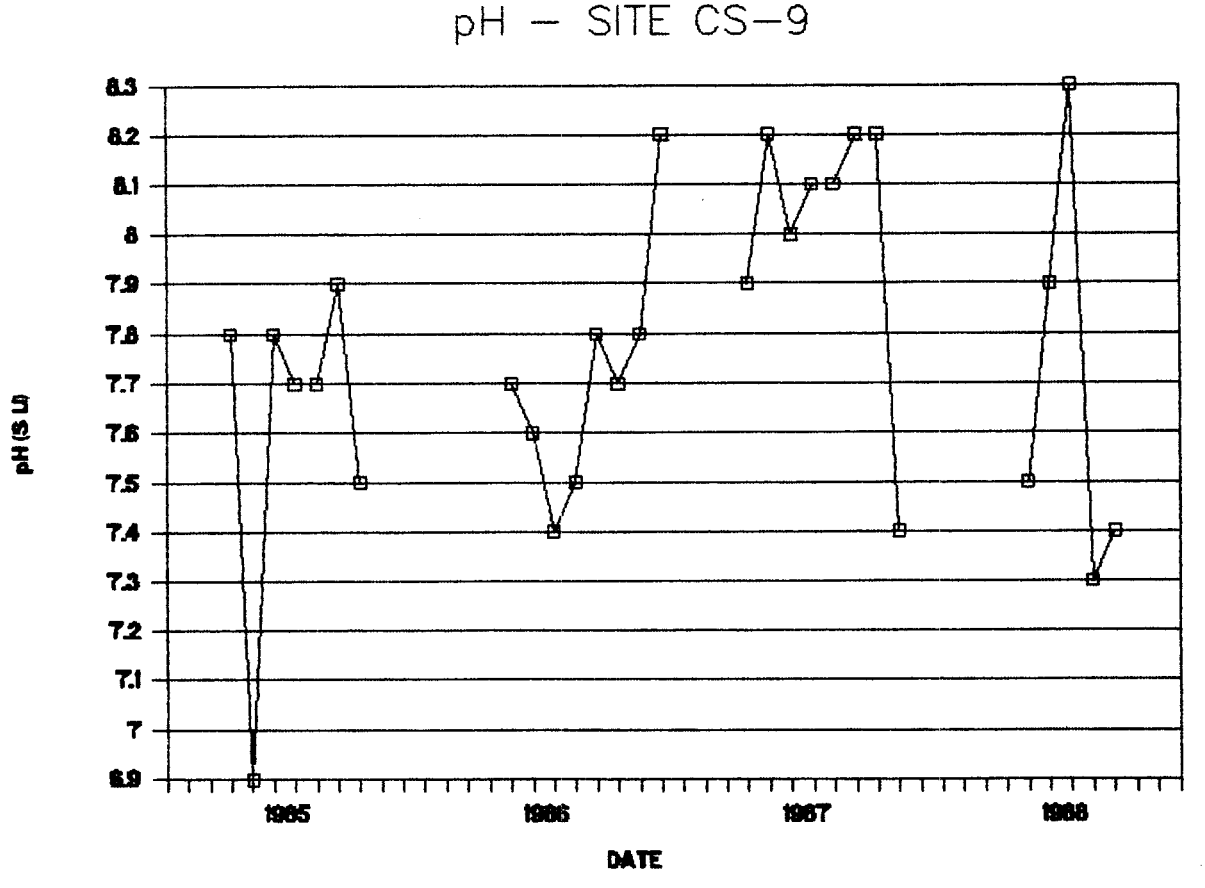

IRON/MANGANESE - SITE CS-8
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.22
0.21
0.2
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

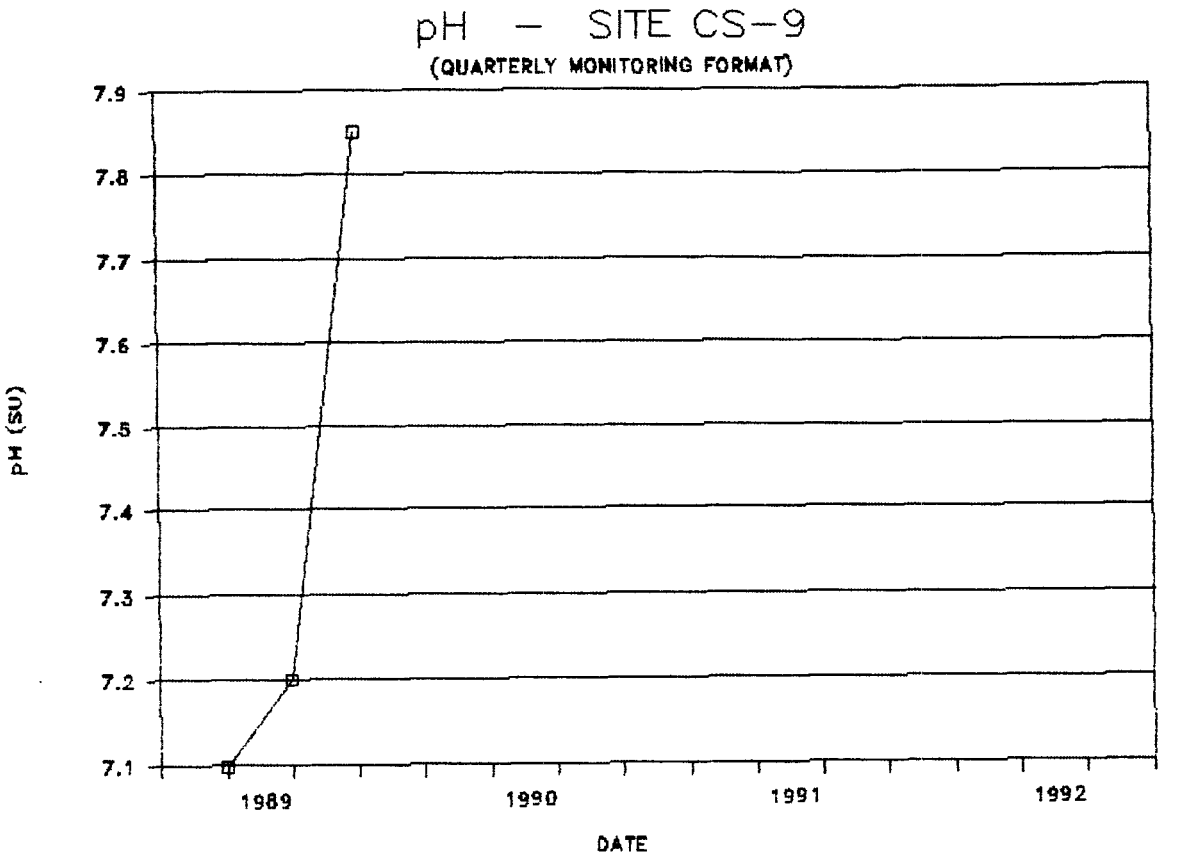

FLOW – SITE CS–9
FLOW (CFS)
9
8
7
6
5
4
3
2
1
0
1981
1982
1983
1984
DATE


FLOW – SITE CS–9
FLOW (CFS)
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1985
1986
1987
1988
DATE

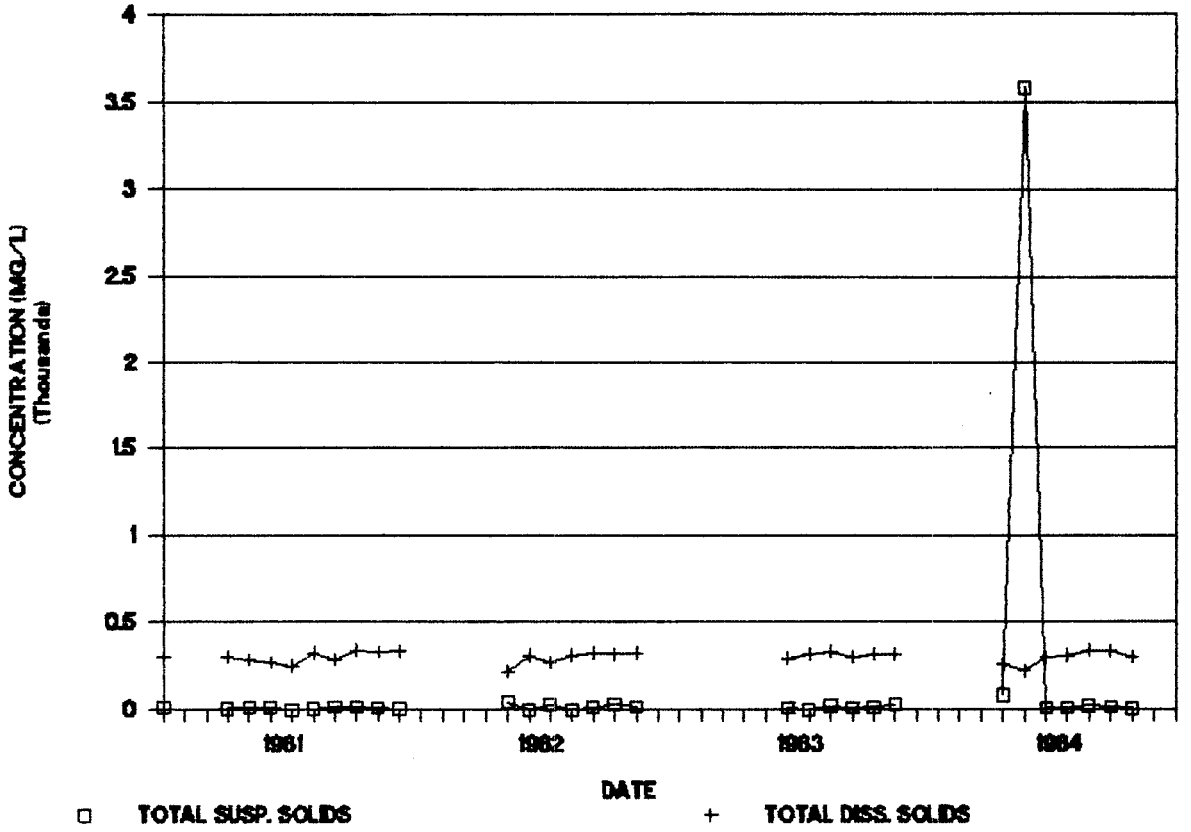

FLOW - SITE CS-9
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
1989
1990
1991
1992
DATE


pH – SITE CS–9
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
pH (S U)
1981
1982
1983
1984
DATE

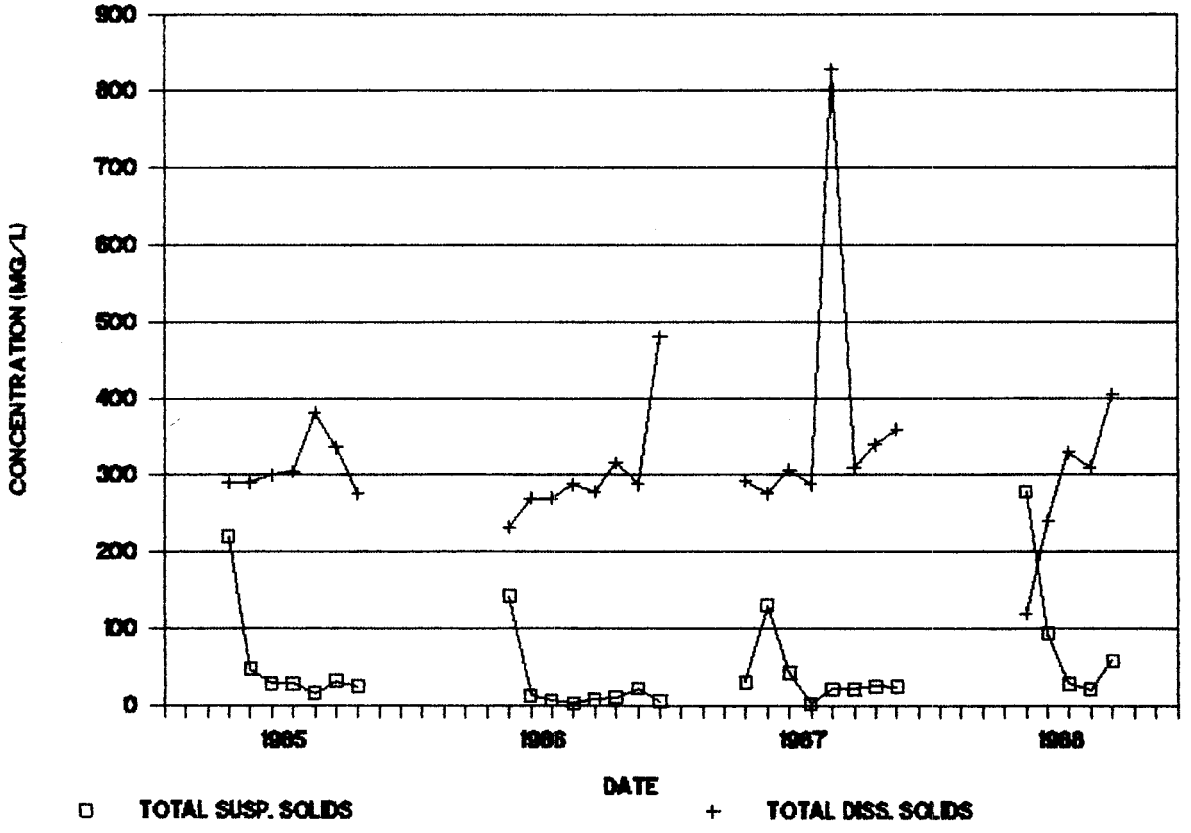

pH – SITE CS–9
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
pH (S U)
1985
1986
1987
1988
DATE

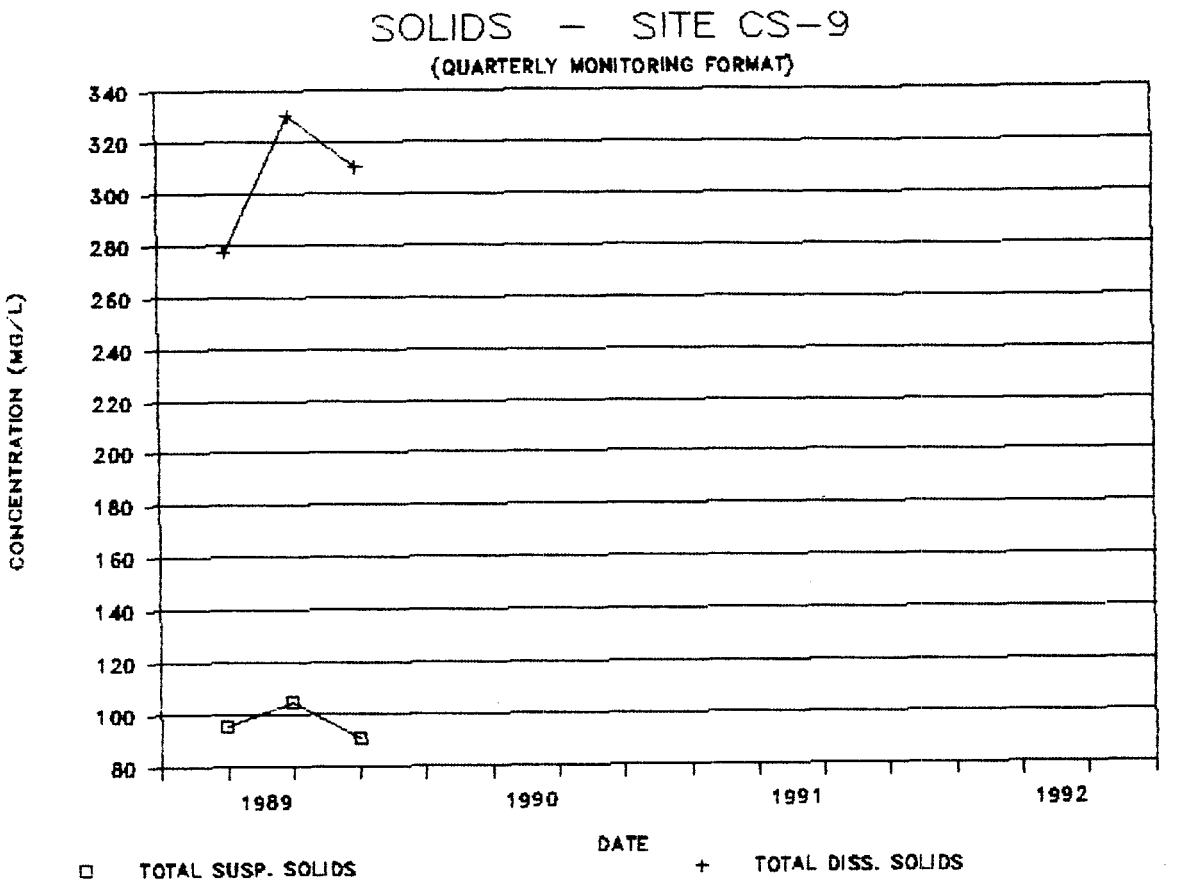

pH - SITE CS-9
(QUARTERLY MONITORING FORMAT)
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
pH (SU)
1989
1990
1991
1992
DATE

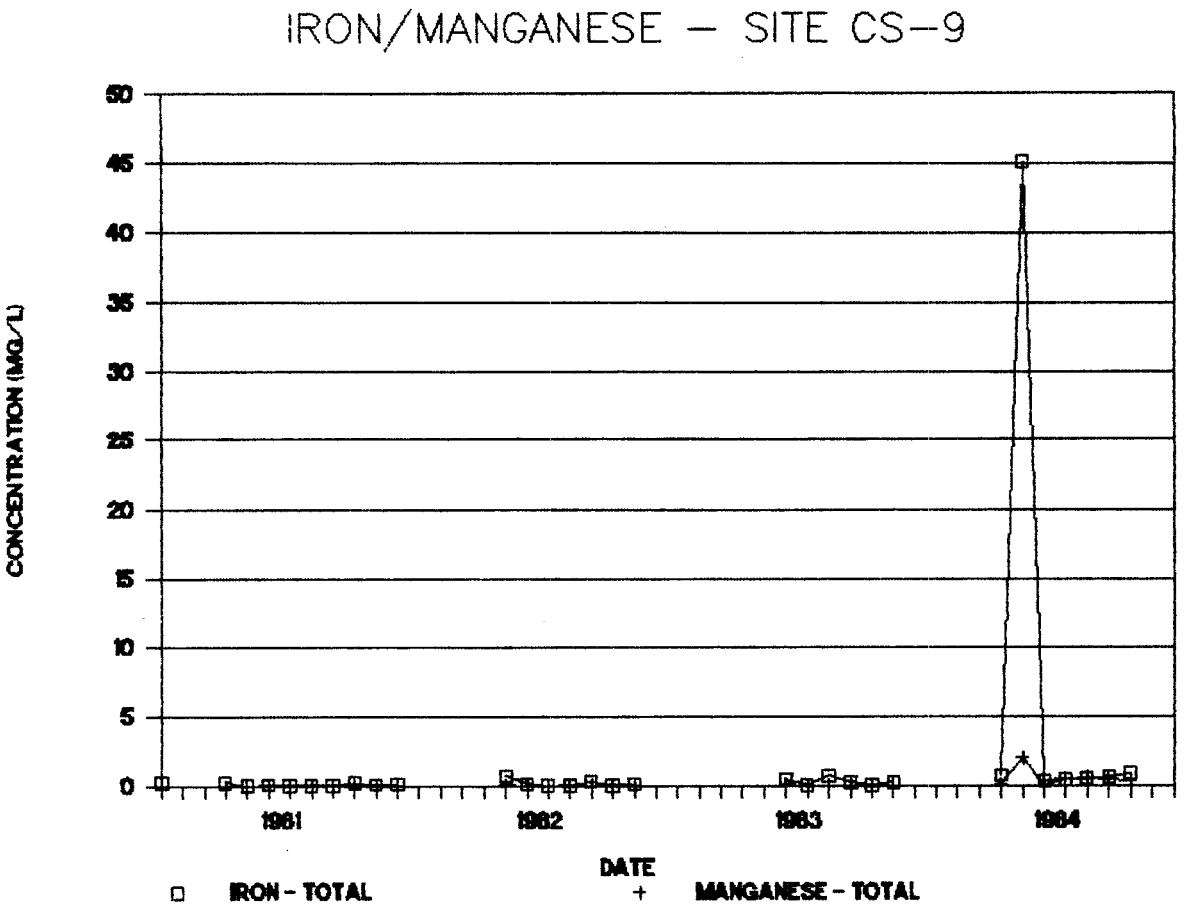
SOLIDS – SITE CS–9

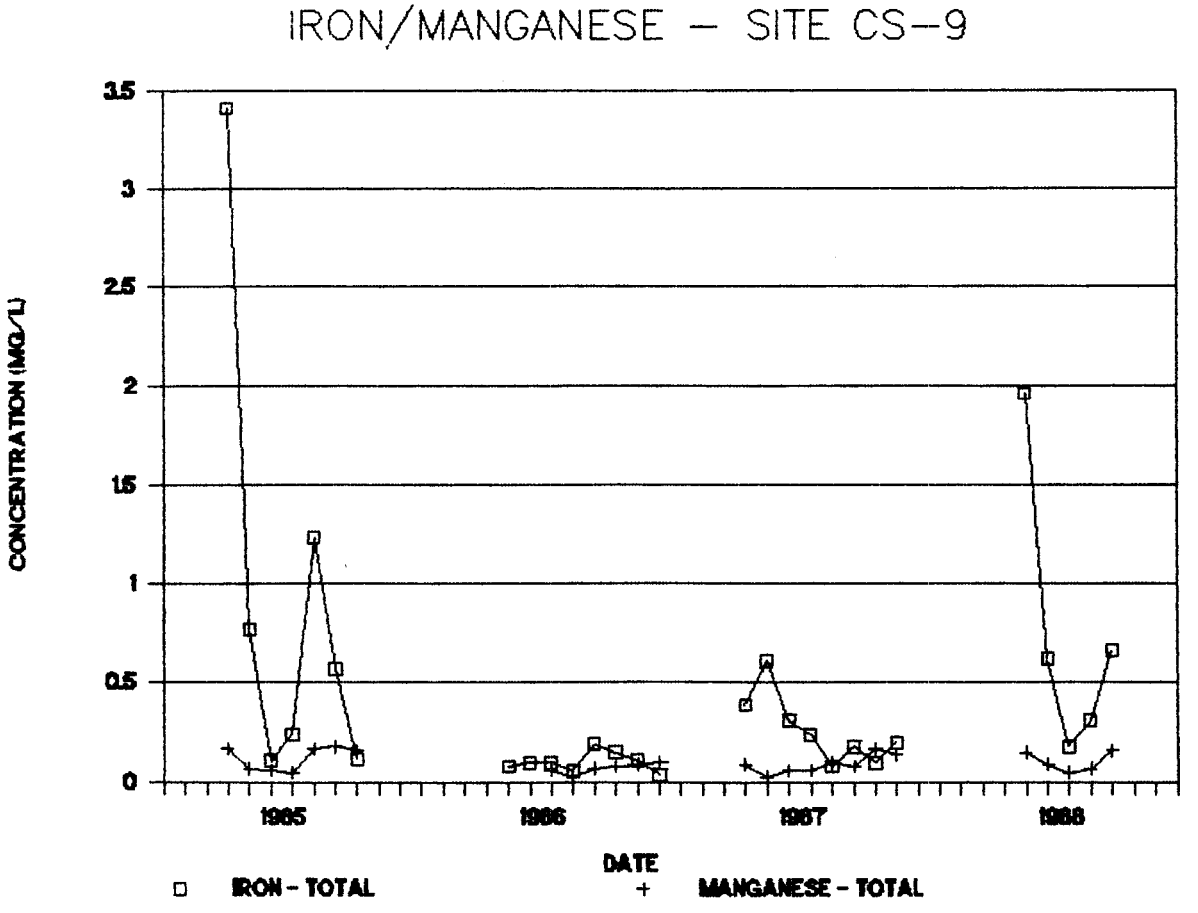


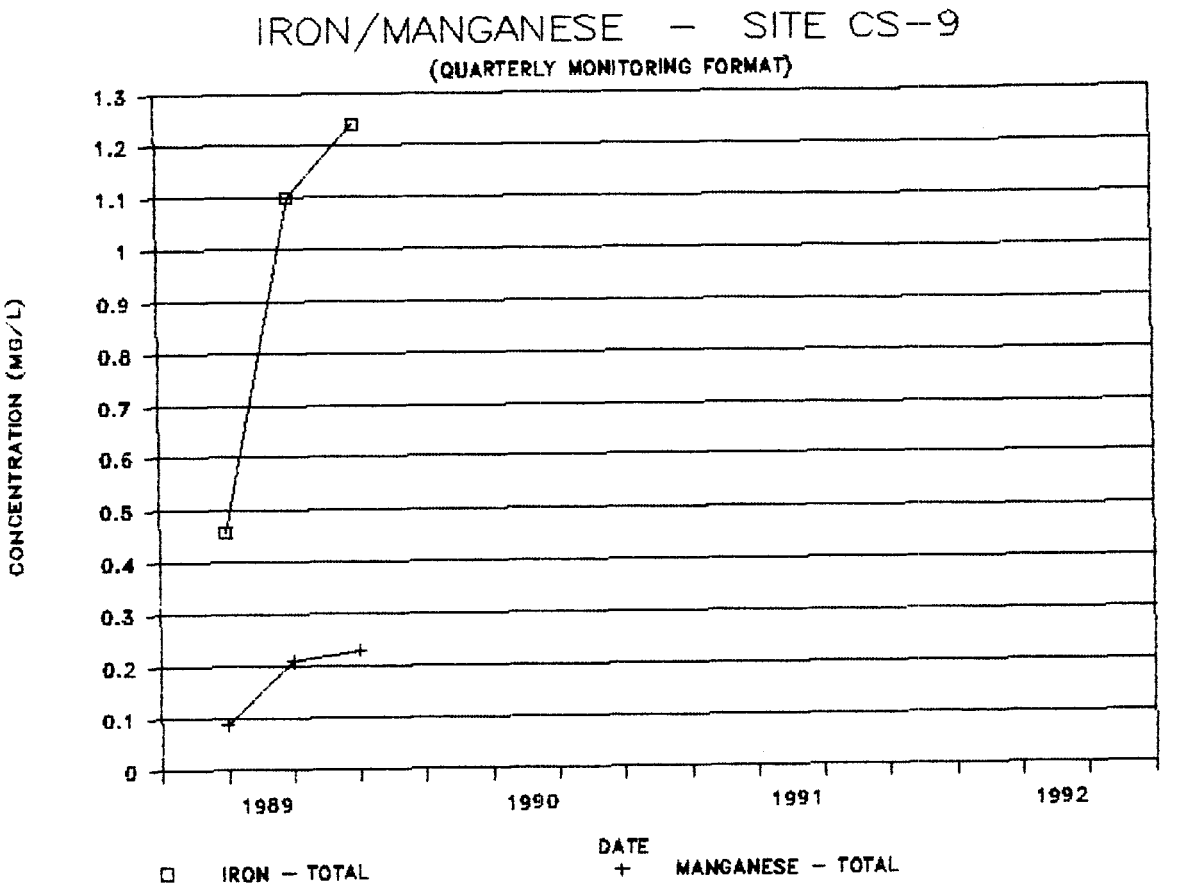
SOLIDS – SITE CS–9

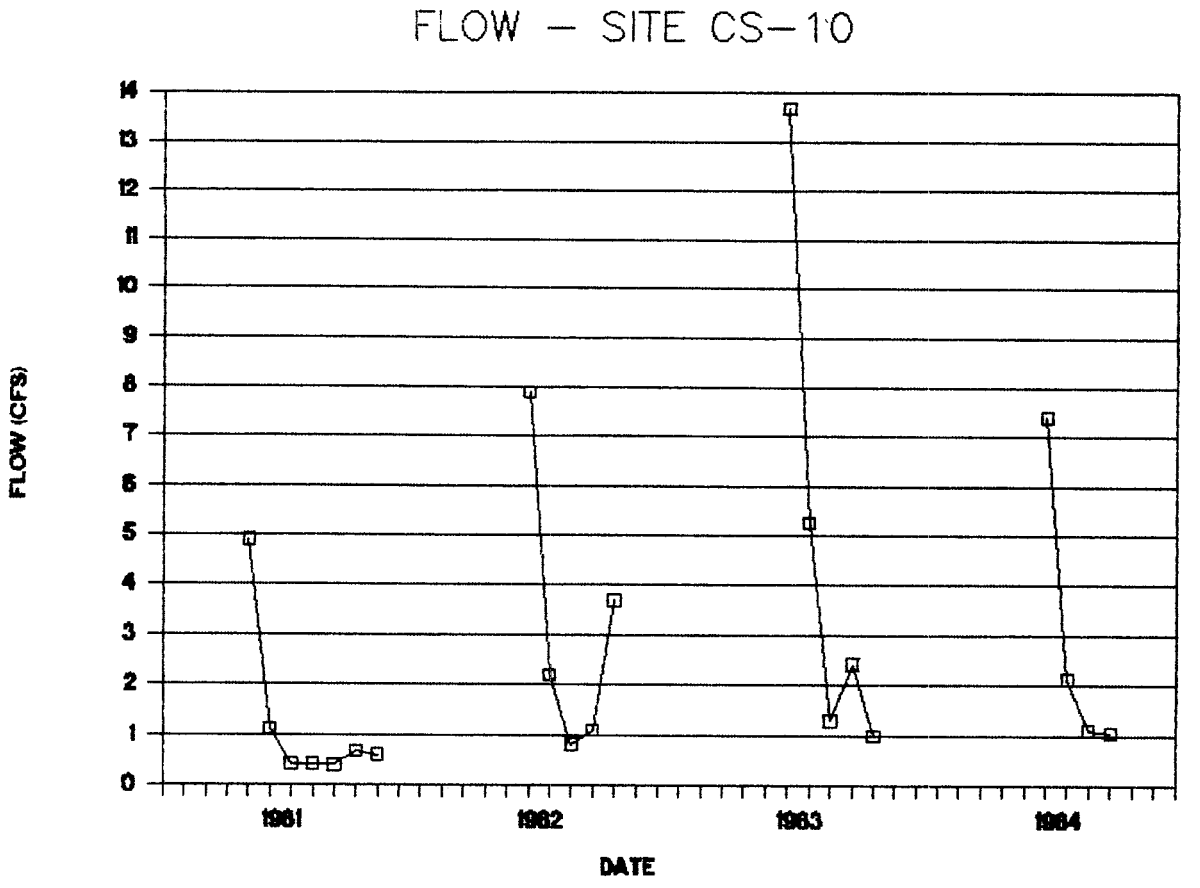


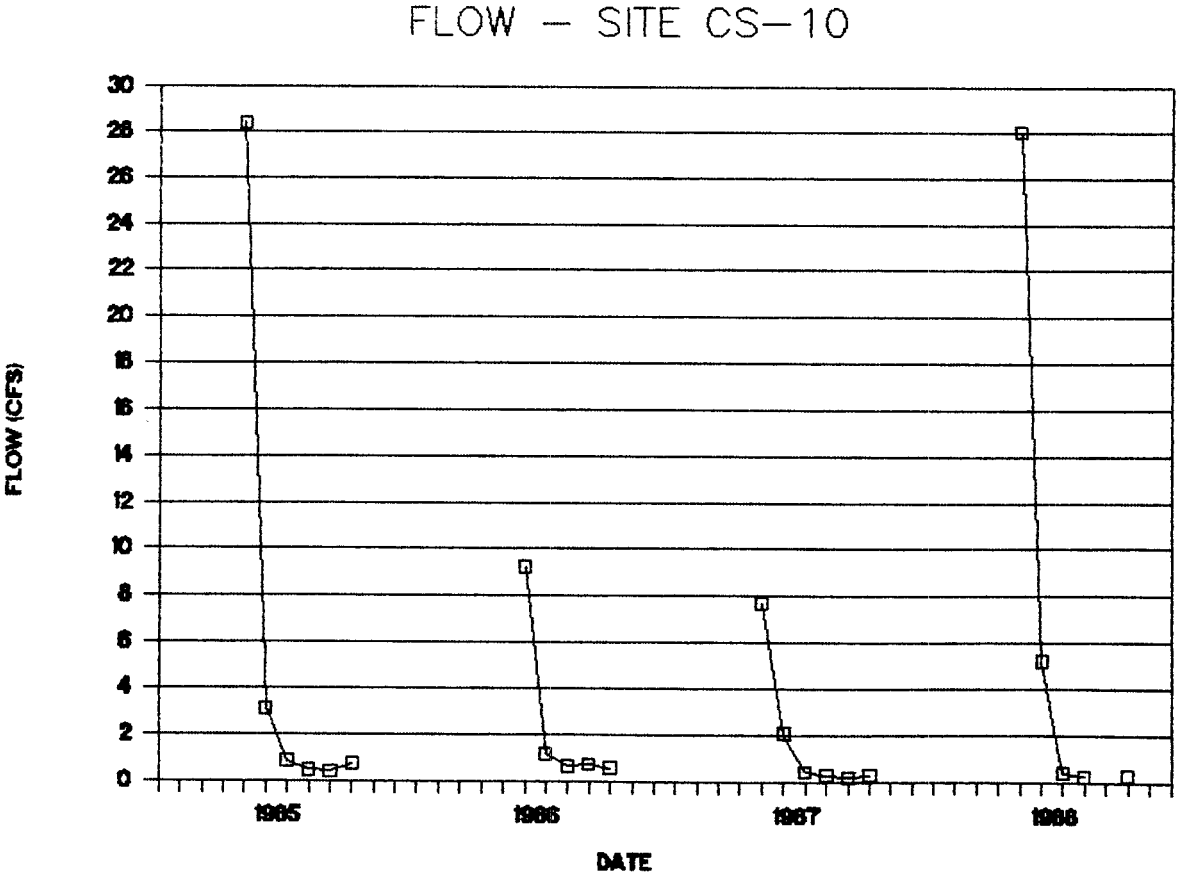

SOLIDS - SITE CS-9
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
340
320
300
280
260
240
220
200
180
160
140
120
100
80
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

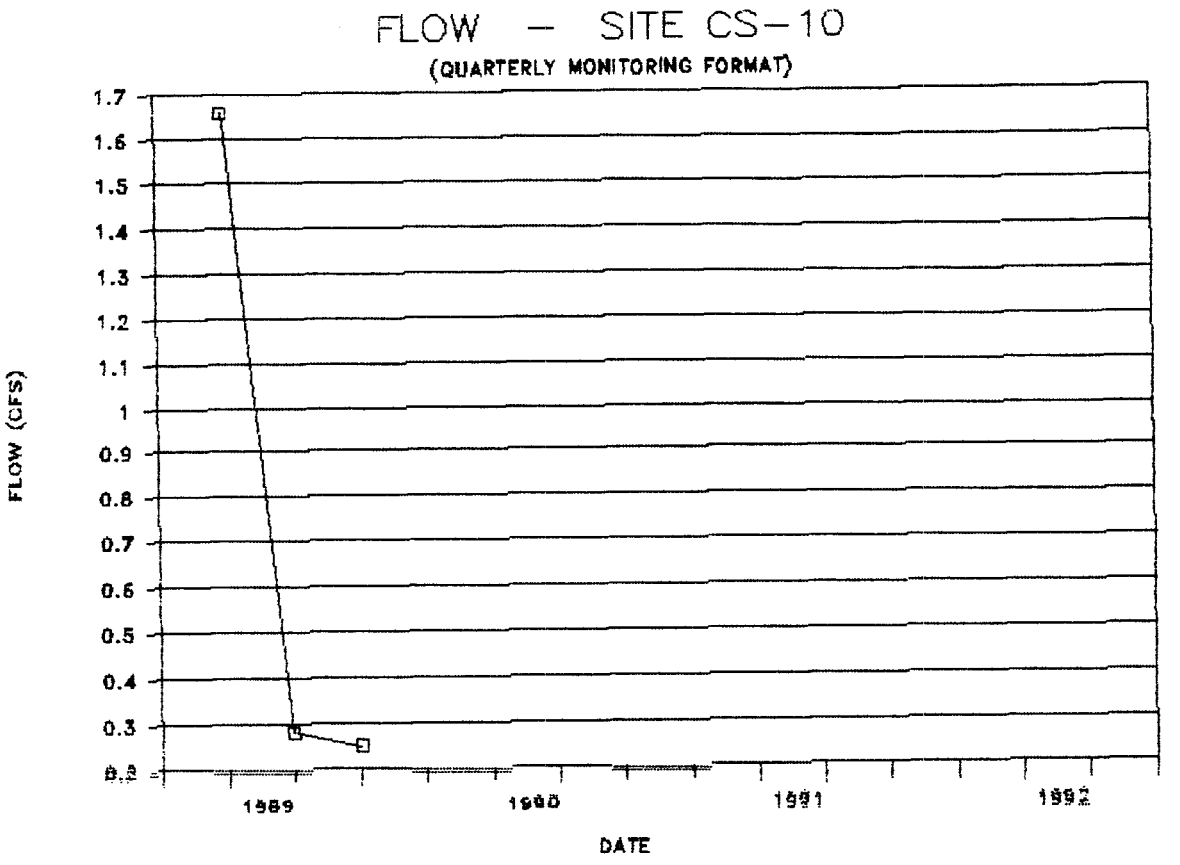

IRON/MANGANESE – SITE CS–9
CONCENTRATION (MG/L)
50
45
40
35
30
25
20
15
10
5
0
1981
1982
1983
1984
DATE
IRON - TOTAL
MANGANESE - TOTAL

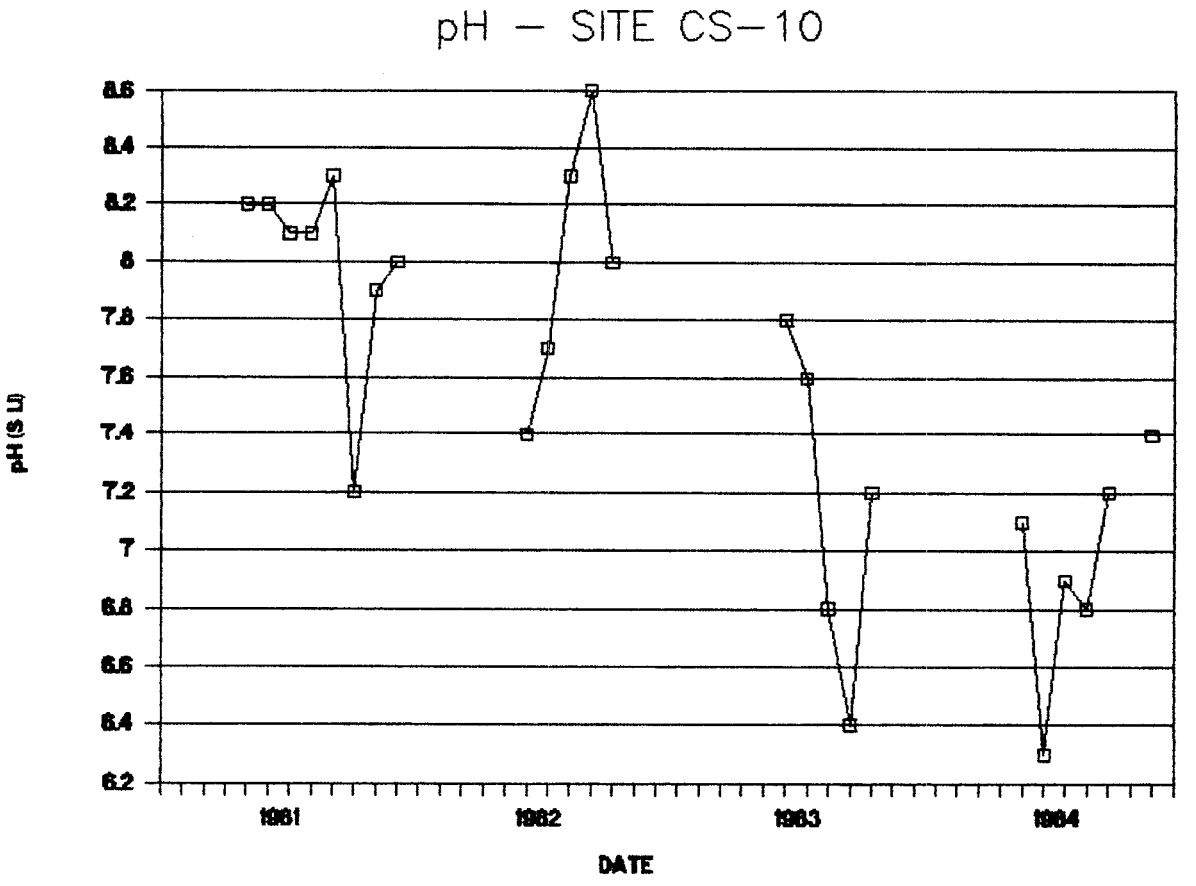

IRON/MANGANESE – SITE CS–9
CONCENTRATION (MG/L)
3.5
3
2.5
2
1.5
1
0.5
0
1985
1986
1987
1988
DATE
IRON - TOTAL
MANGANESE - TOTAL

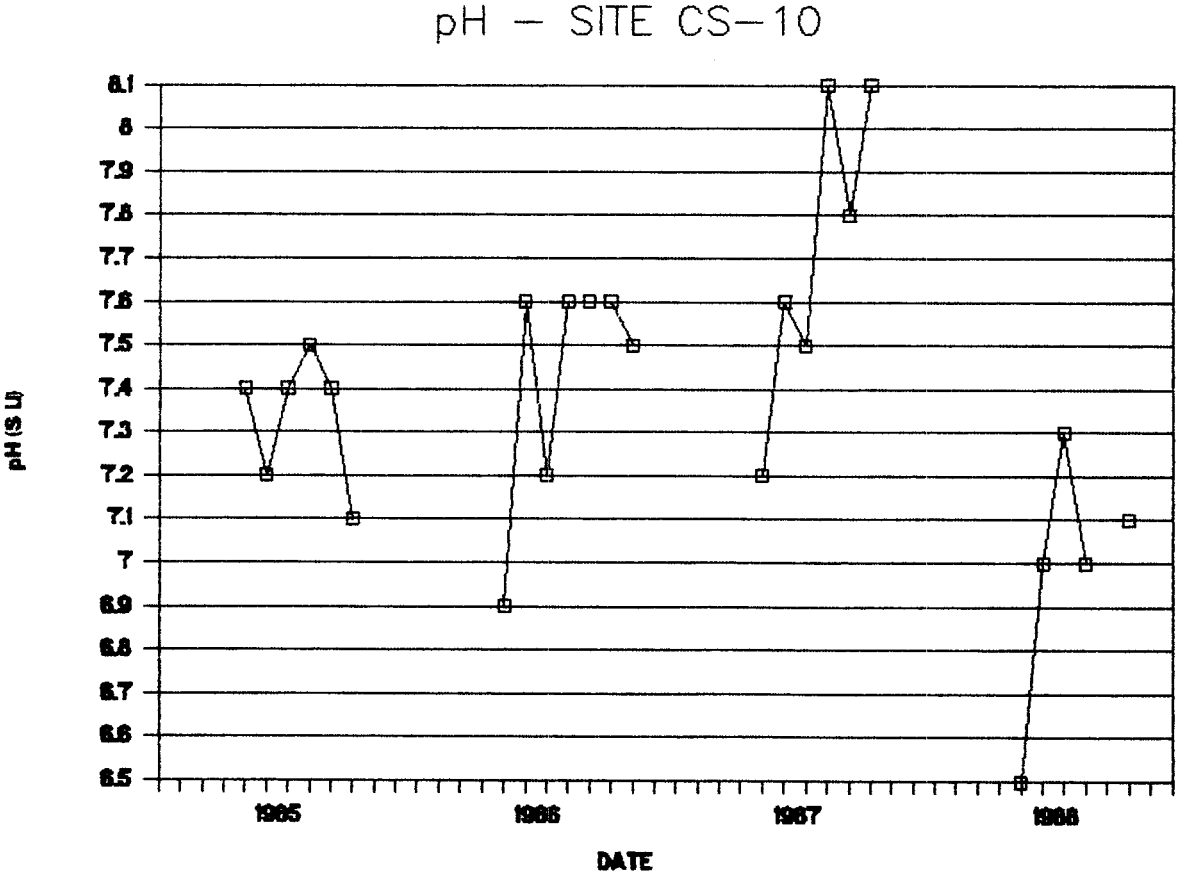

IRON/MANGANESE - SITE CS-9
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

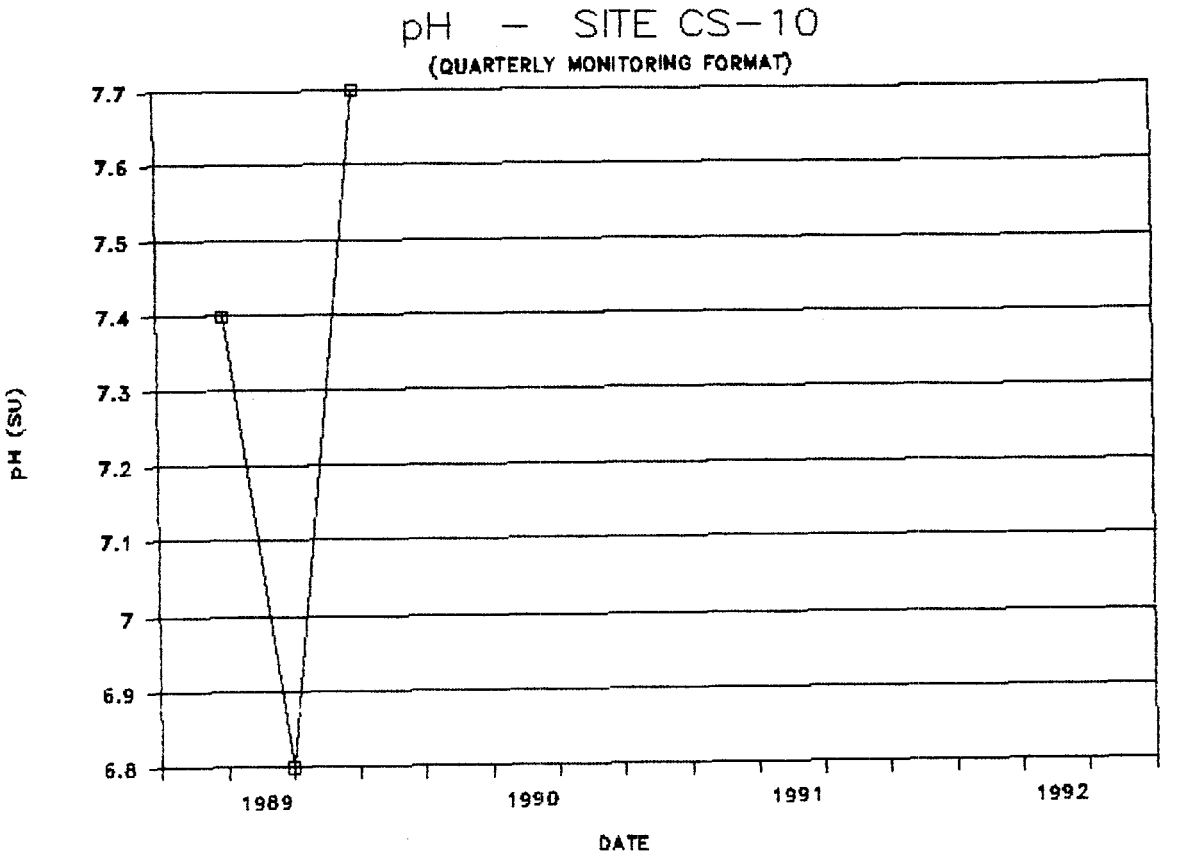

FLOW – SITE CS–10
FLOW (CFS)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
1981
1982
1983
1984
DATE

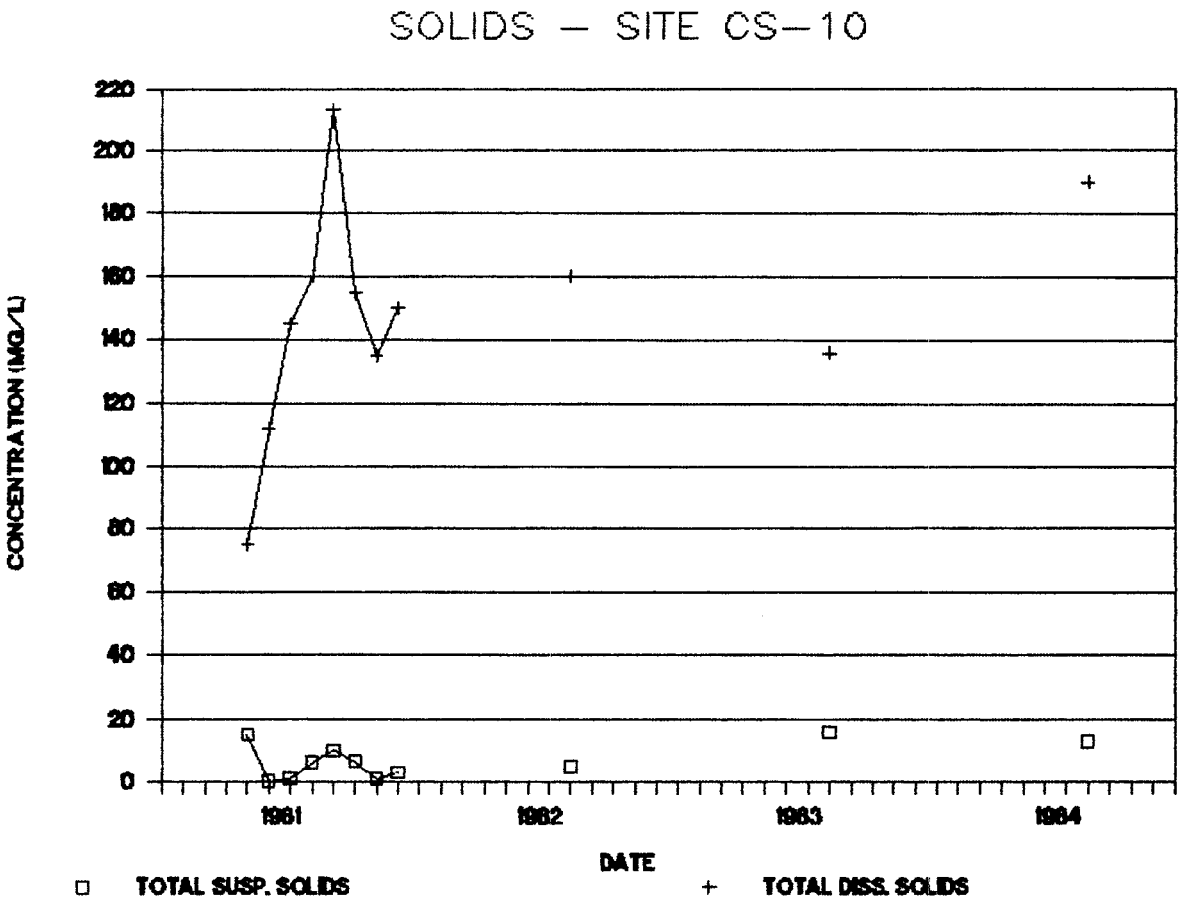

FLOW – SITE CS–10
FLOW (CFS)
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
1985
1986
1987
1988
DATE

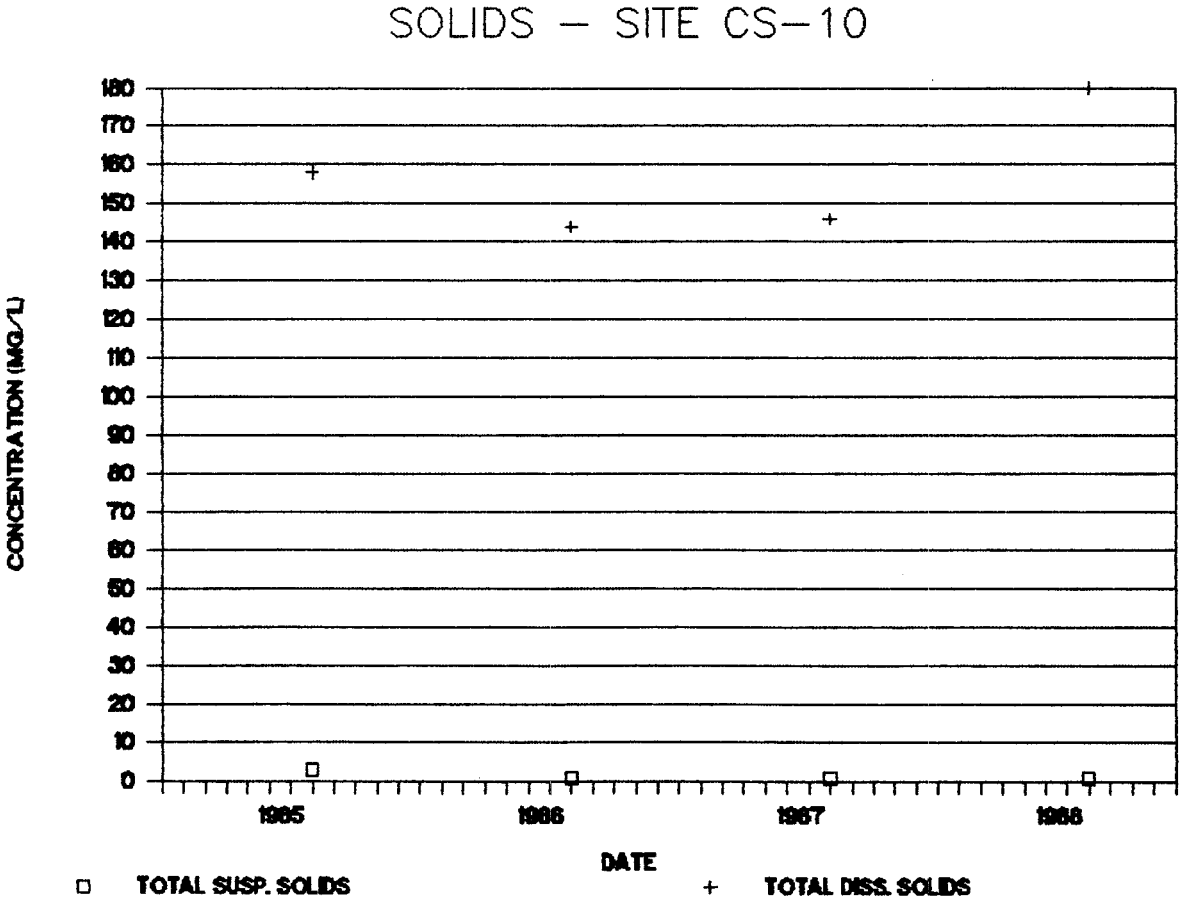

FLOW - SITE CS-10
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
1989
1990
1991
1992
DATE

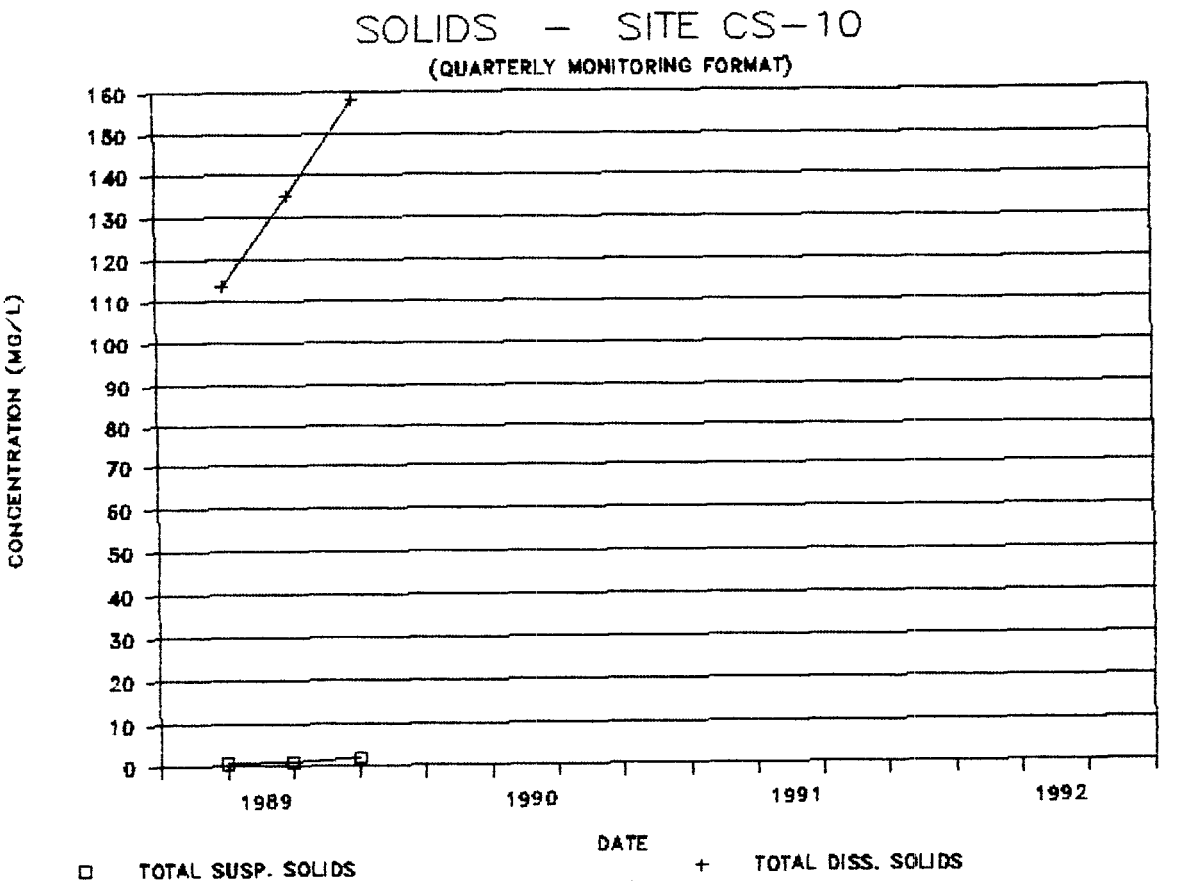

pH – SITE CS–10
8.6
8.4
8.2
8
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4
6.2
pH (S.U.)
1981
1982
1983
1984
DATE

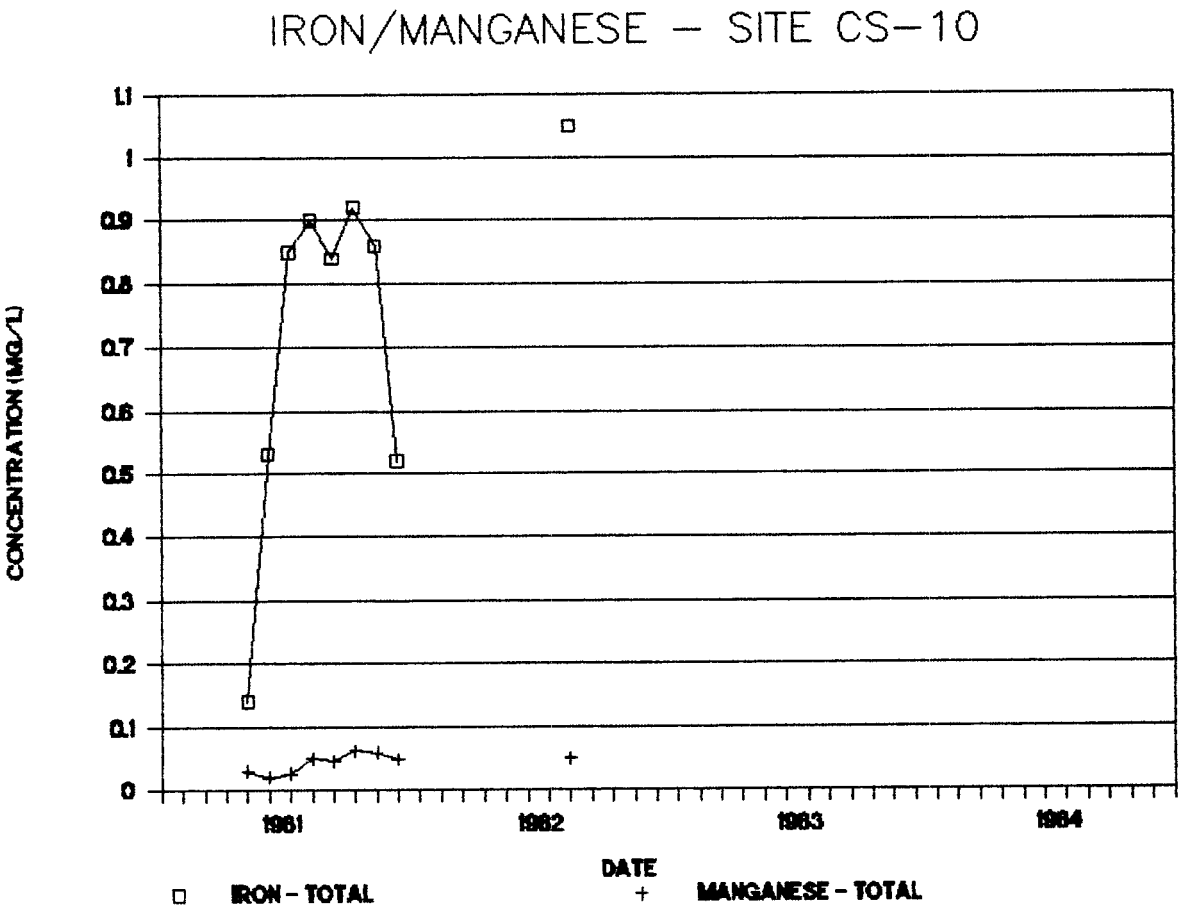

pH – SITE CS–10
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
pH (S.U.)
1985
1986
1987
1988
DATE

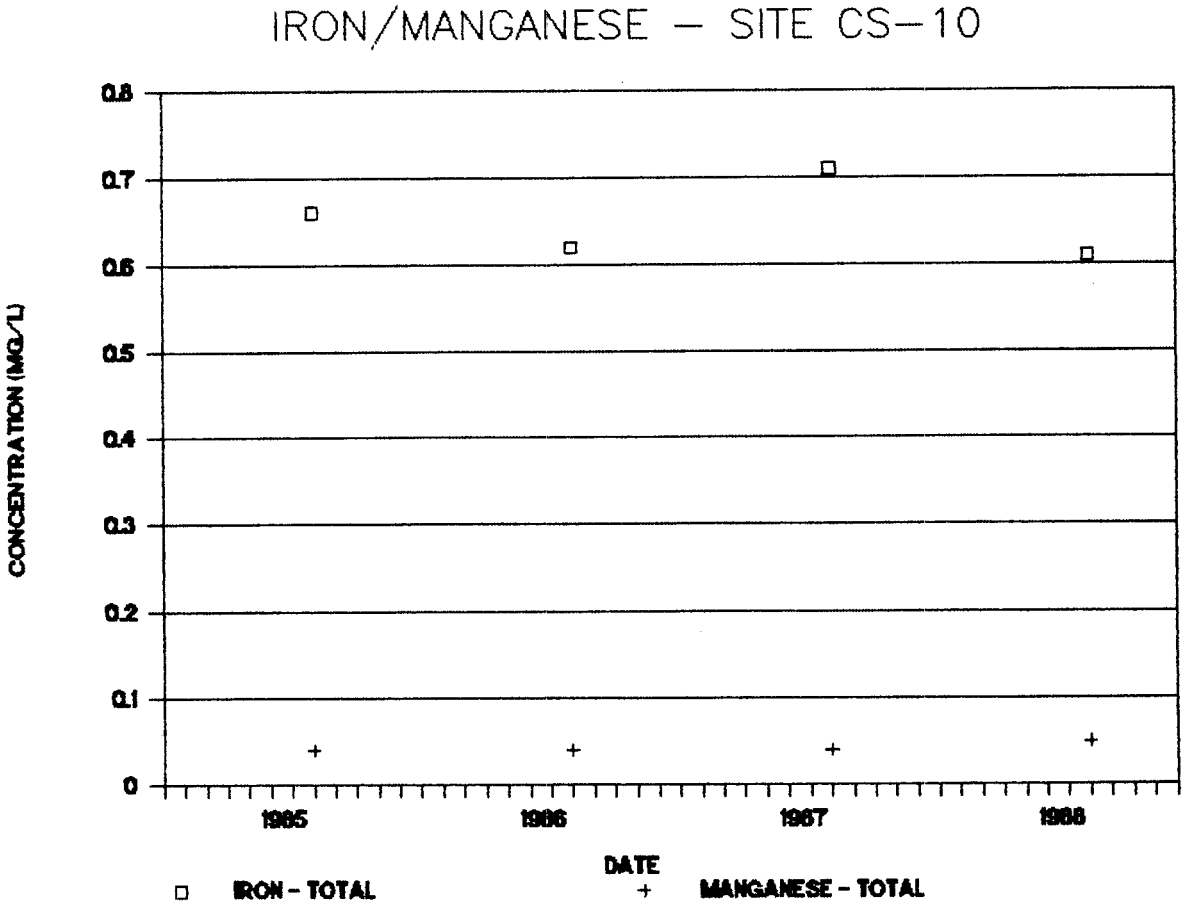

pH - SITE CS-10
(QUARTERLY MONITORING FORMAT)
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
pH (SU)
1989
1990
1991
1992
DATE

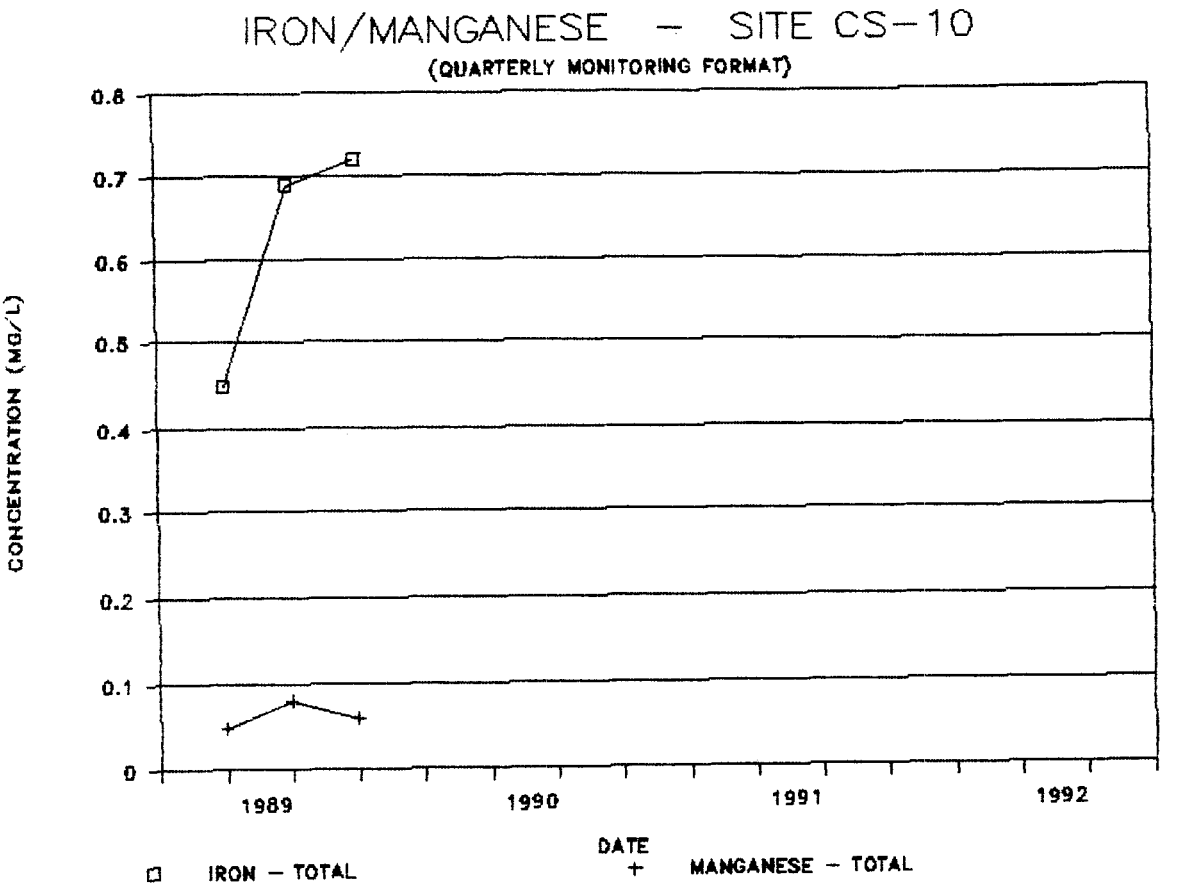

SOLIDS – SITE CS–10
CONCENTRATION (MG/L)
220
200
180
160
140
120
100
80
60
40
20
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


SOLIDS – SITE CS–10
CONCENTRATION (MG/L)
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

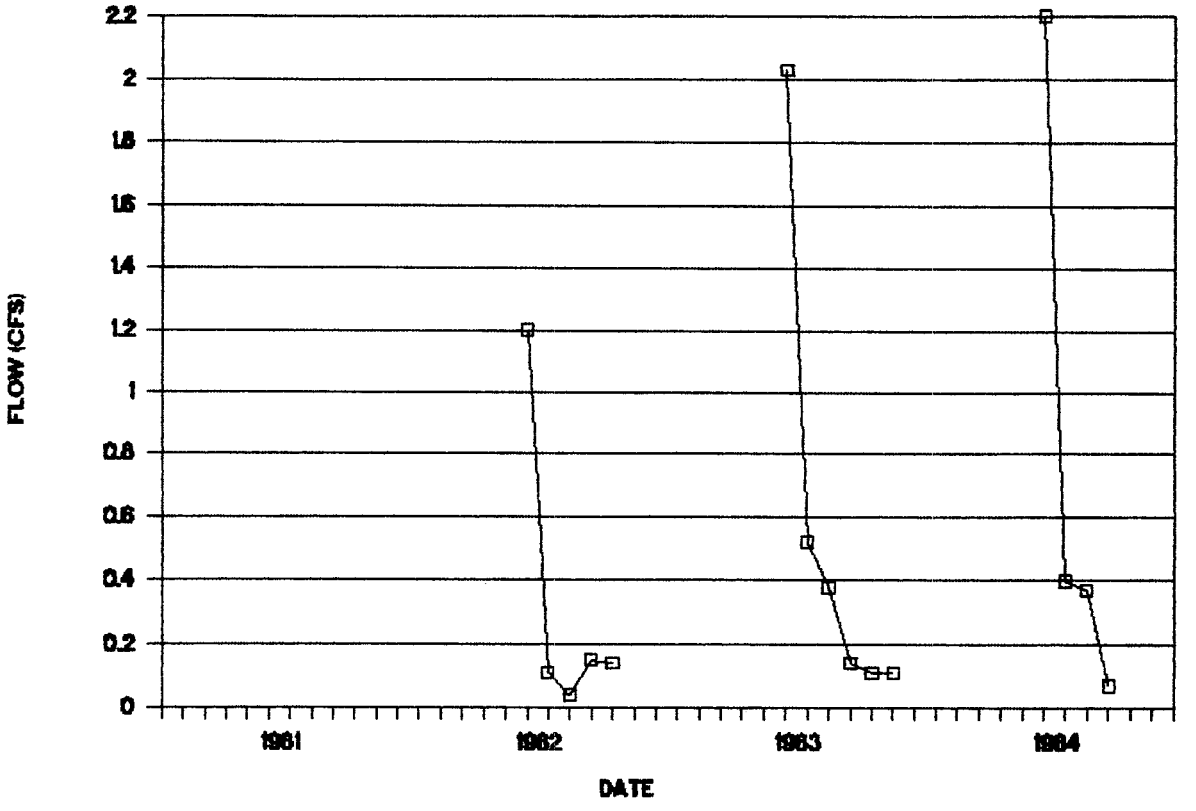

SOLIDS - SITE CS-10
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


IRON/MANGANESE – SITE CS–10
CONCENTRATION (MG/L)
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1981
1982
1983
1984
DATE
IRON – TOTAL
MANGANESE – TOTAL

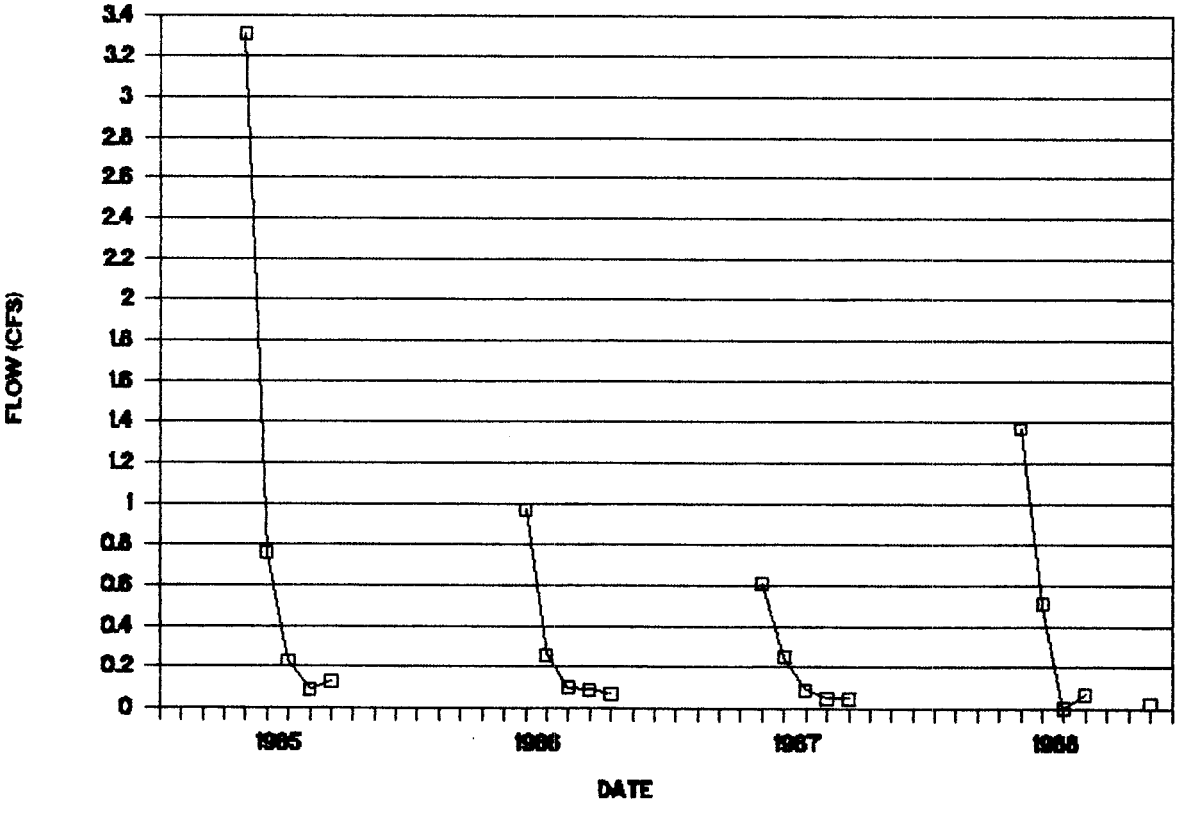

IRON/MANGANESE – SITE CS–10
CONCENTRATION (MG/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1985
1986
1987
1988
DATE
IRON – TOTAL
MANGANESE – TOTAL

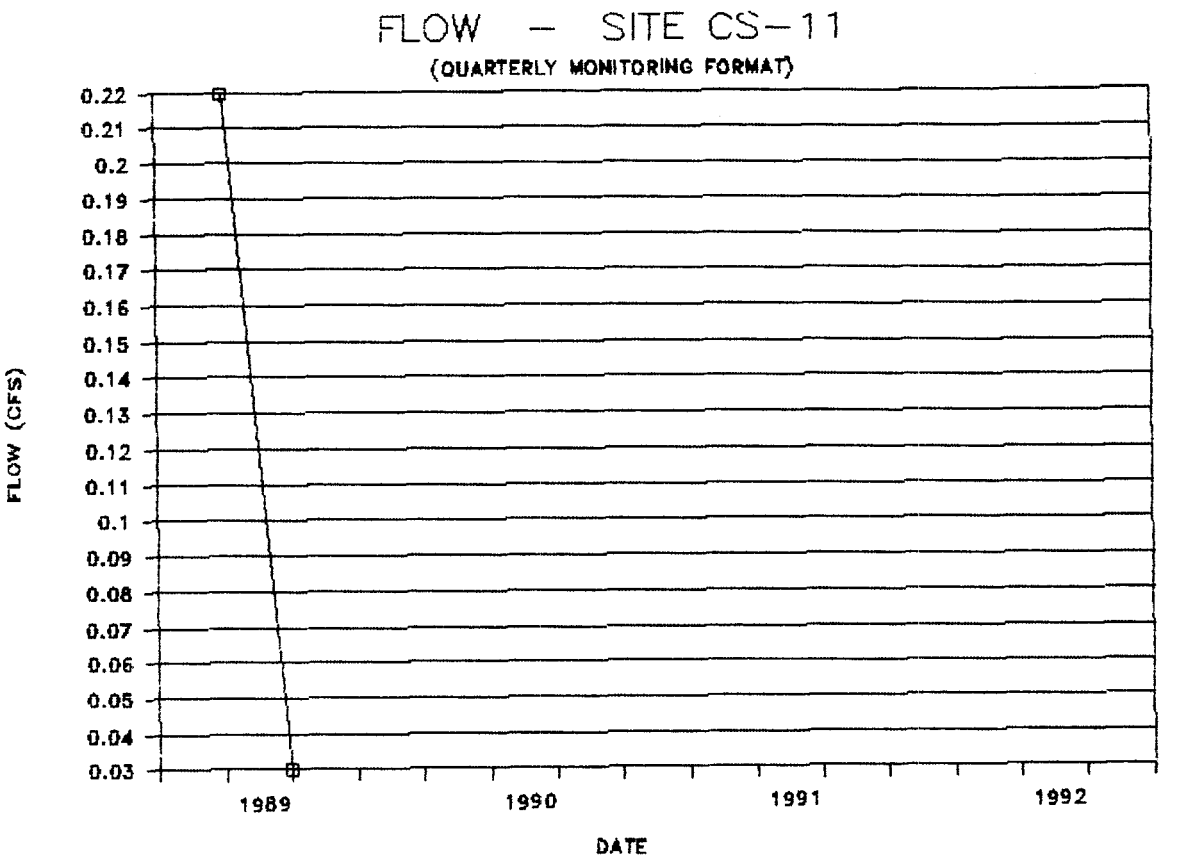

IRON/MANGANESE - SITE CS-10
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

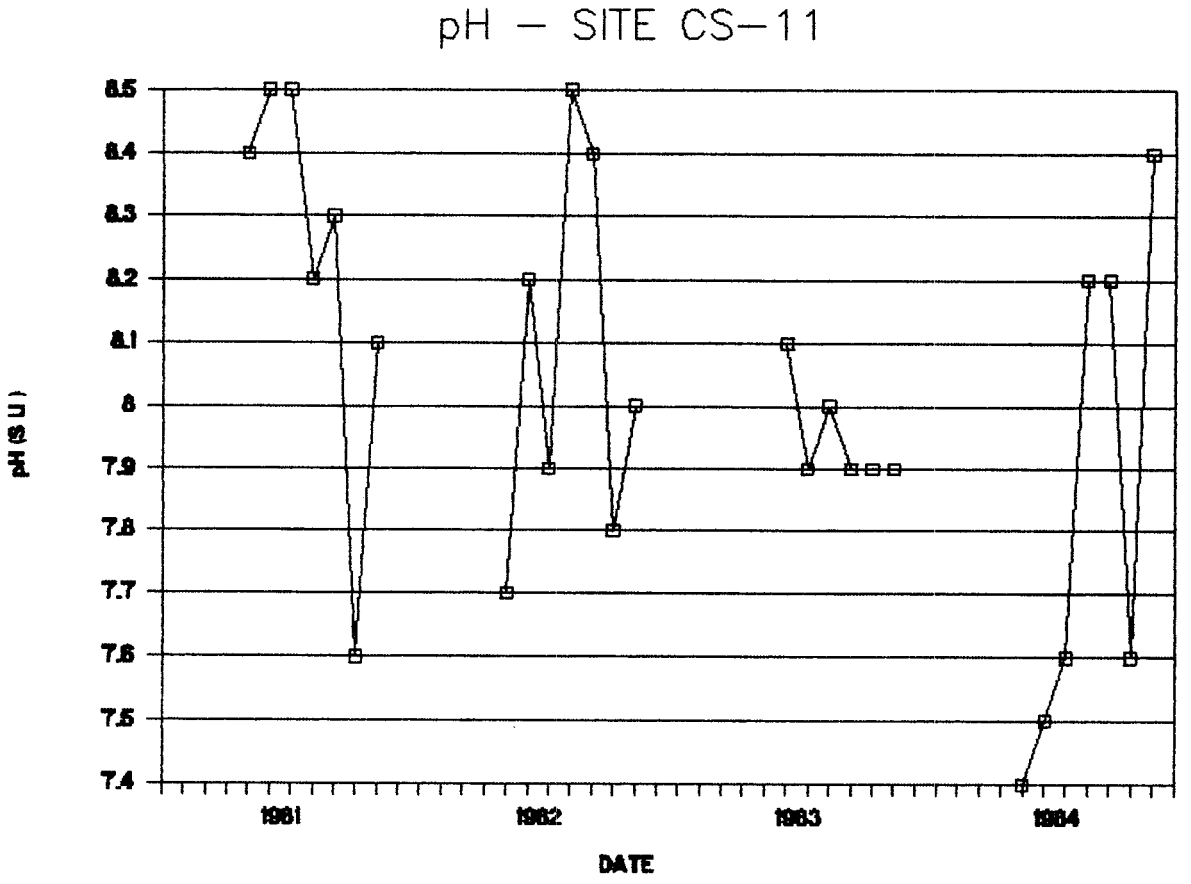
FLOW — SITE CS-11

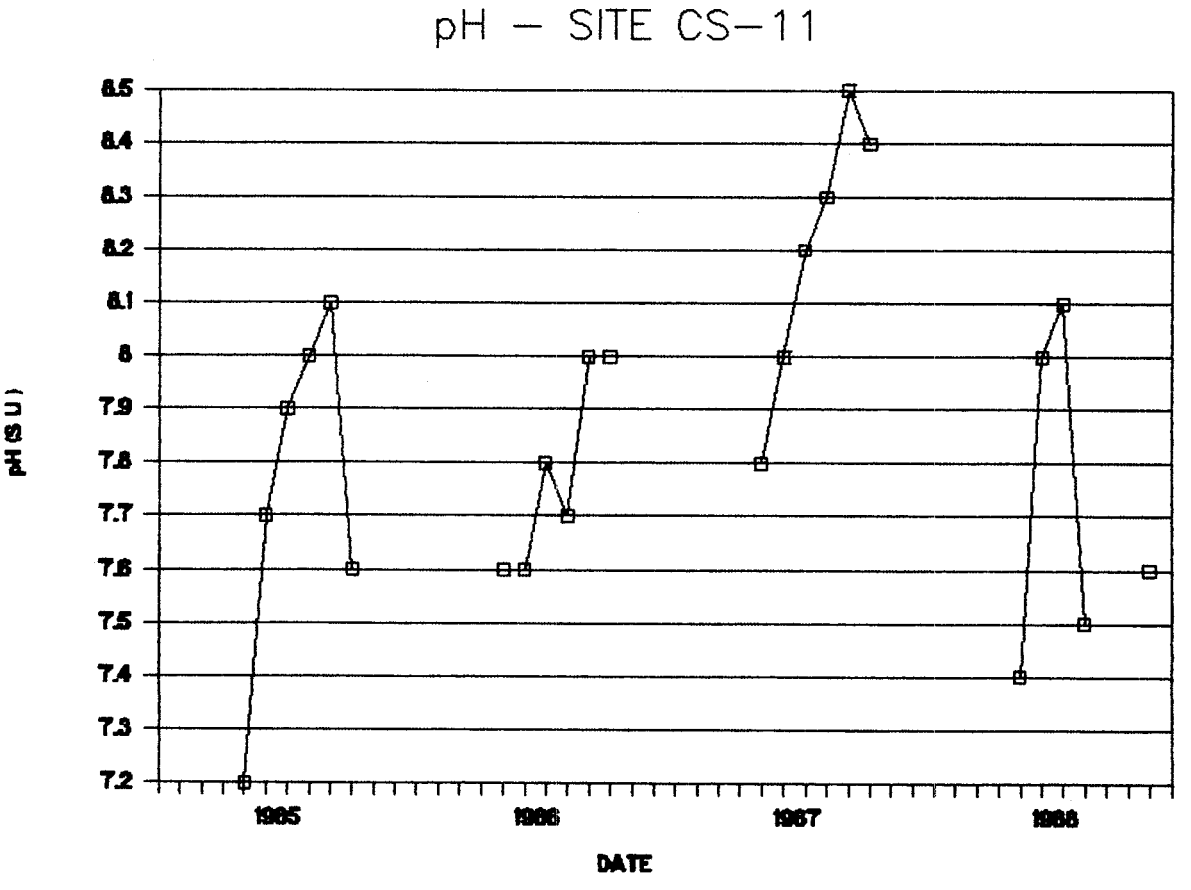


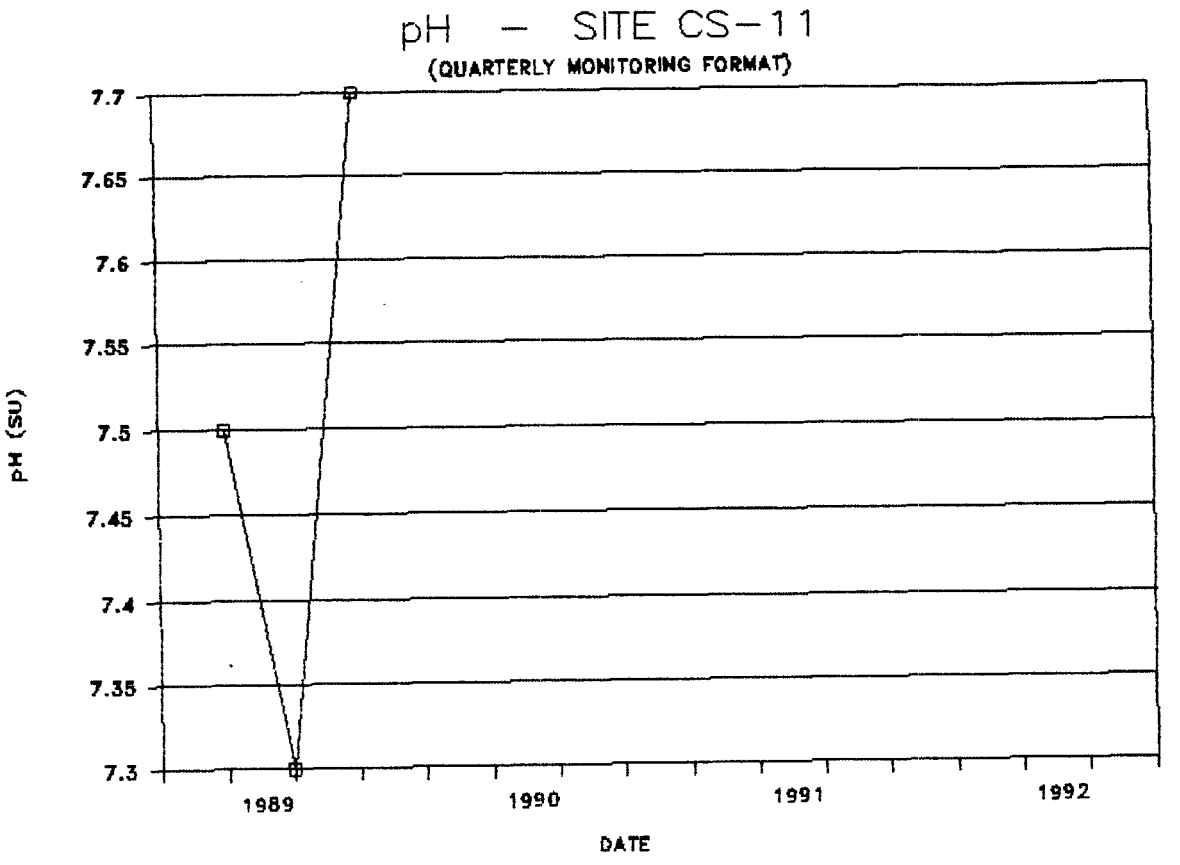
FLOW — SITE CS-11

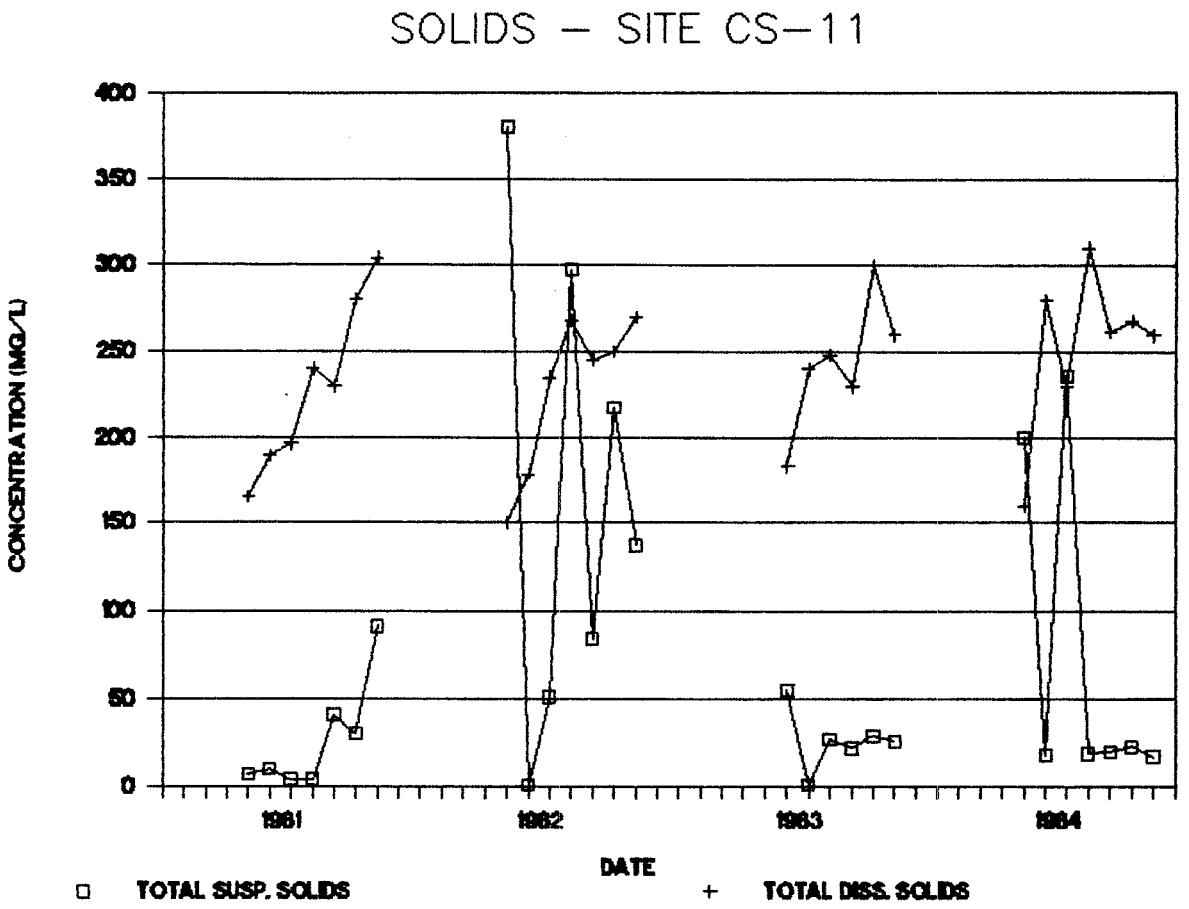


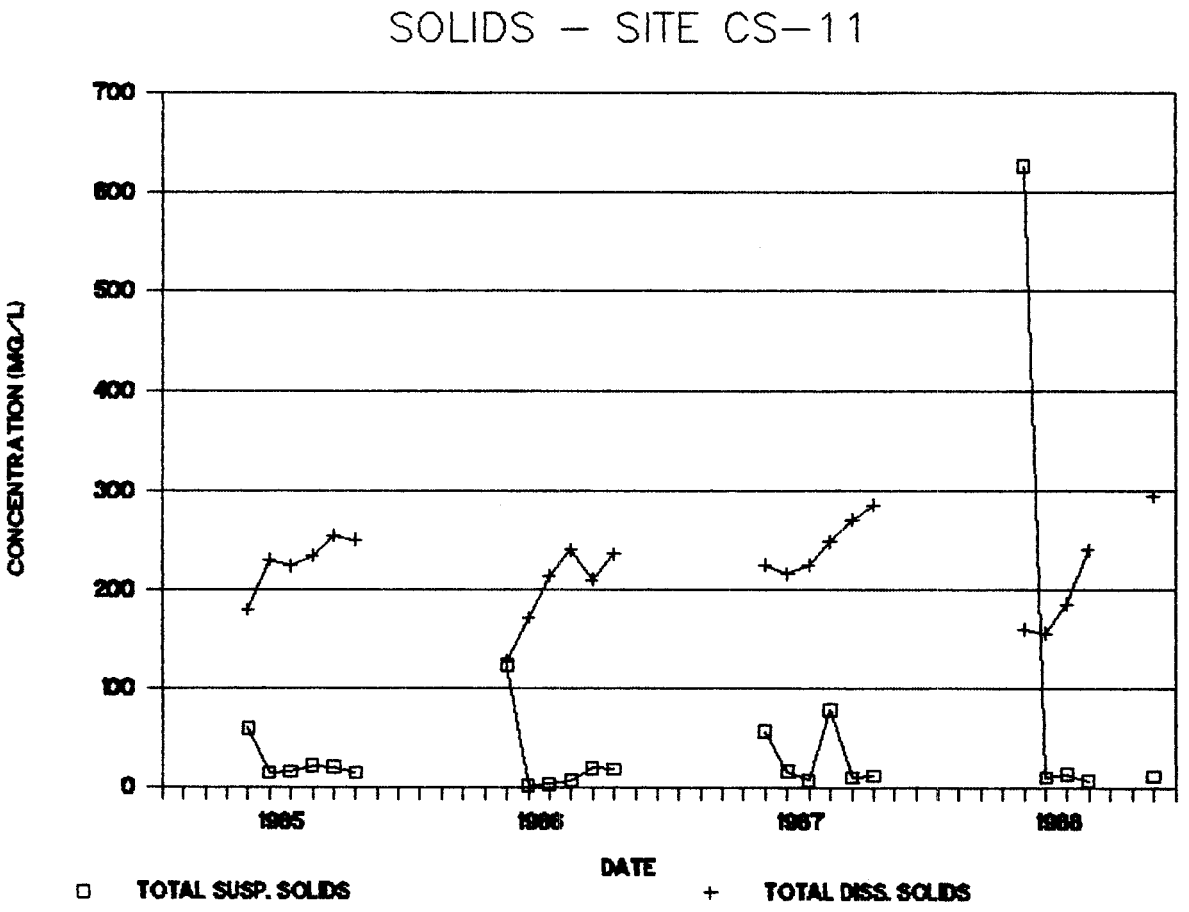

FLOW - SITE CS-11
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.22
0.21
0.2
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
1989
1990
1991
1992
DATE

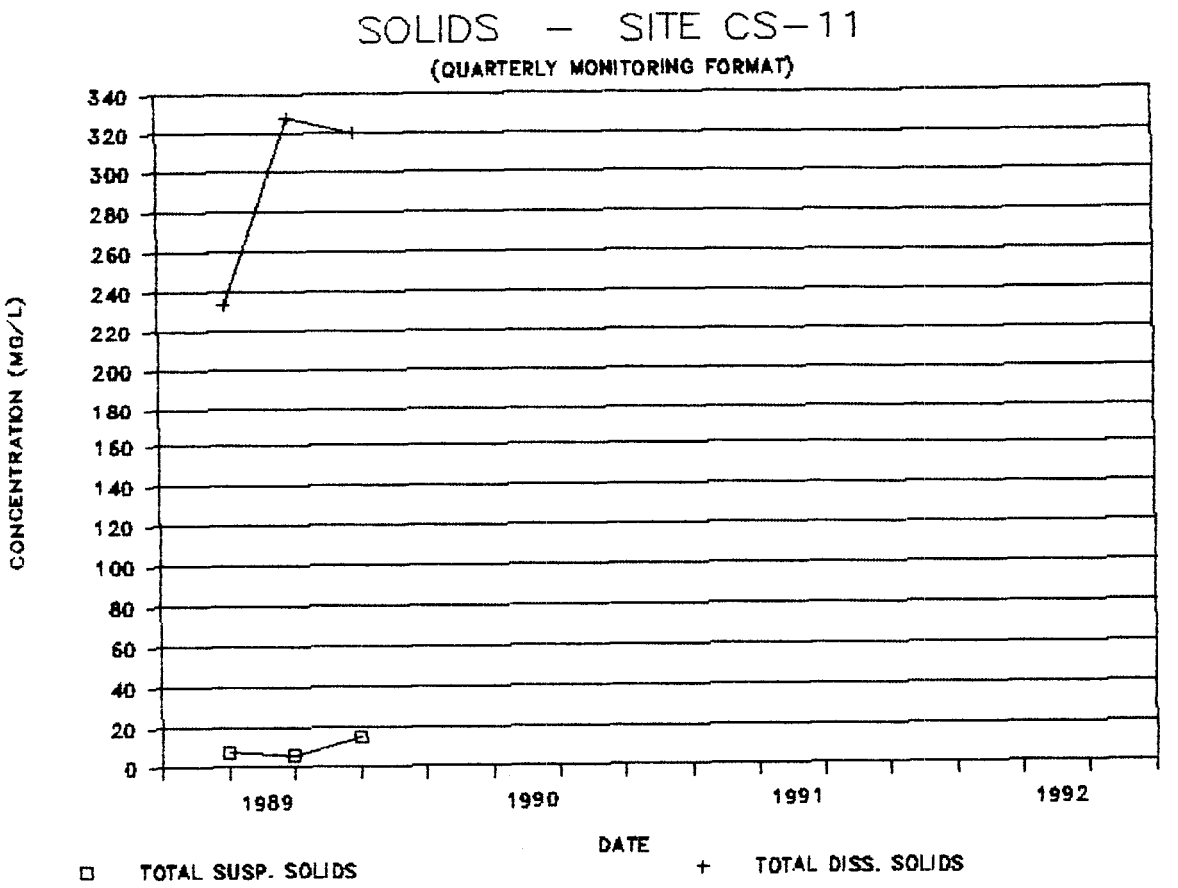

pH – SITE CS–11
pH (S U)
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
1981
1982
1983
1984
DATE

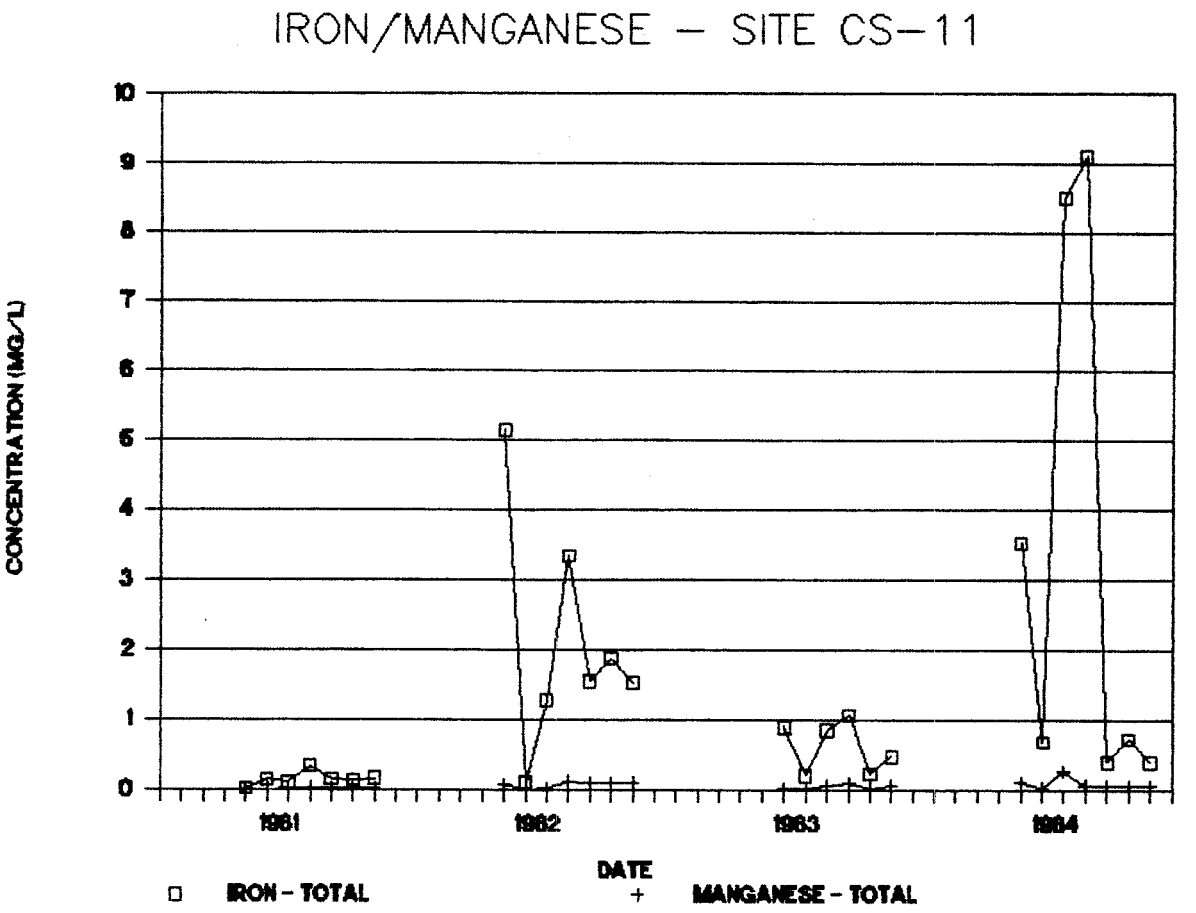

pH – SITE CS–11
pH (S U)
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
1985
1986
1987
1988
DATE

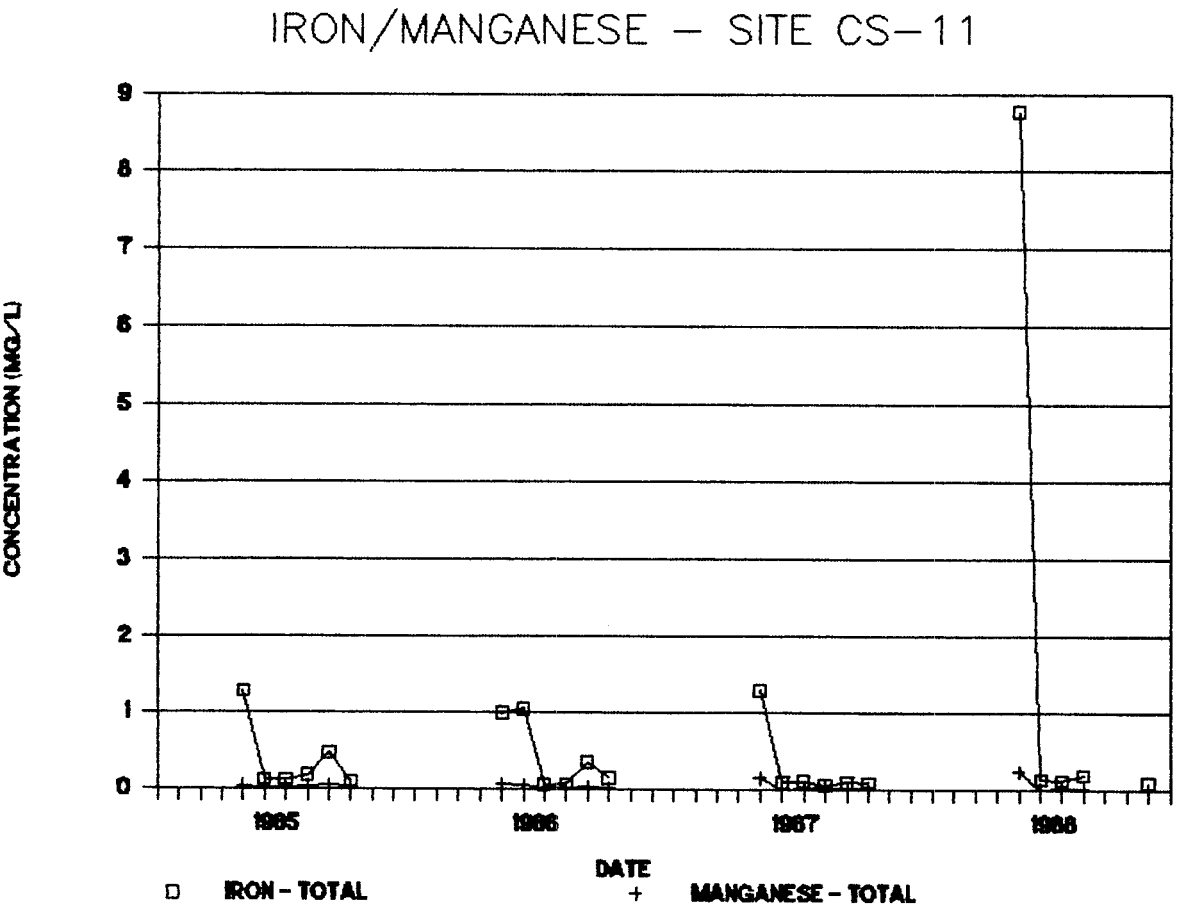

pH - SITE CS-11
(QUARTERLY MONITORING FORMAT)
7.7
7.65
7.6
7.55
7.5
7.45
7.4
7.35
7.3
pH (SU)
1989
1990
1991
1992
DATE

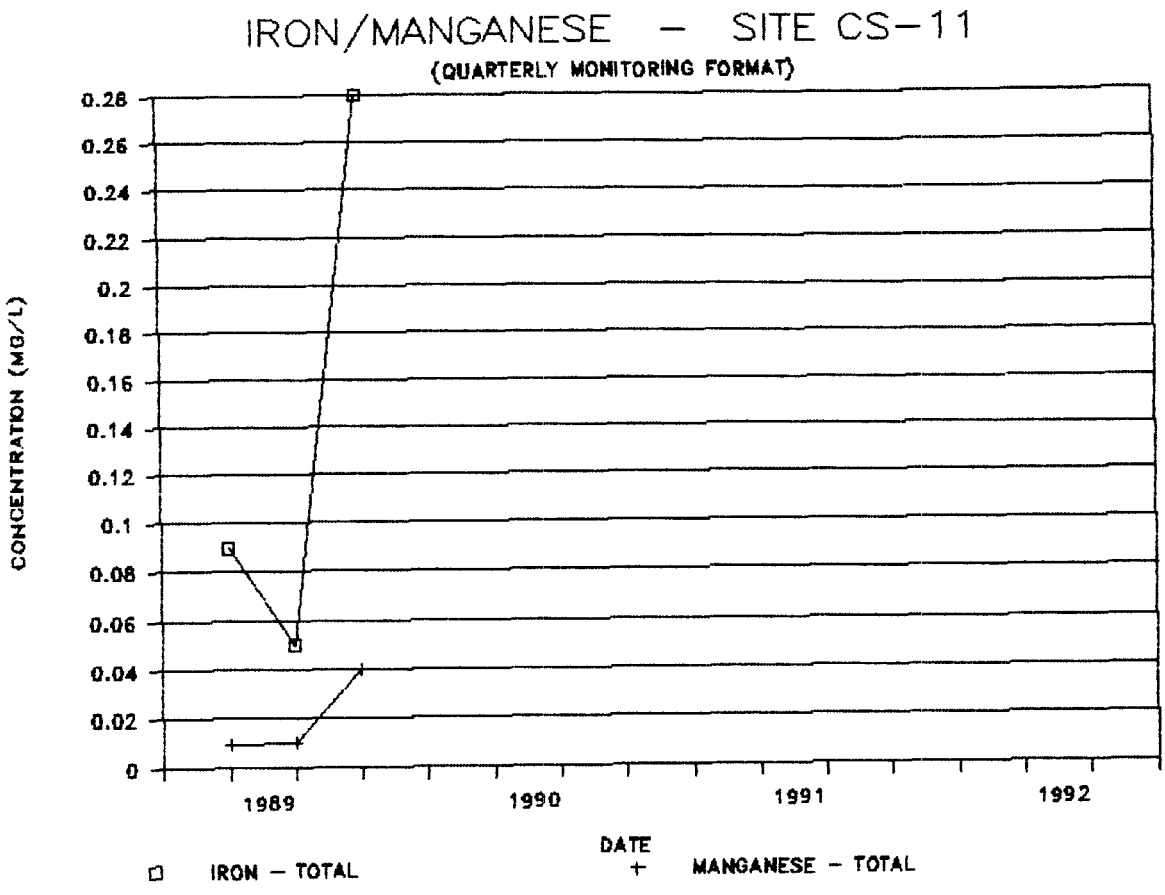

SOLIDS – SITE CS–11
CONCENTRATION (MG/L)
400
350
300
250
200
150
100
50
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


SOLIDS – SITE CS–11
CONCENTRATION (MG/L)
700
600
500
400
300
200
100
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

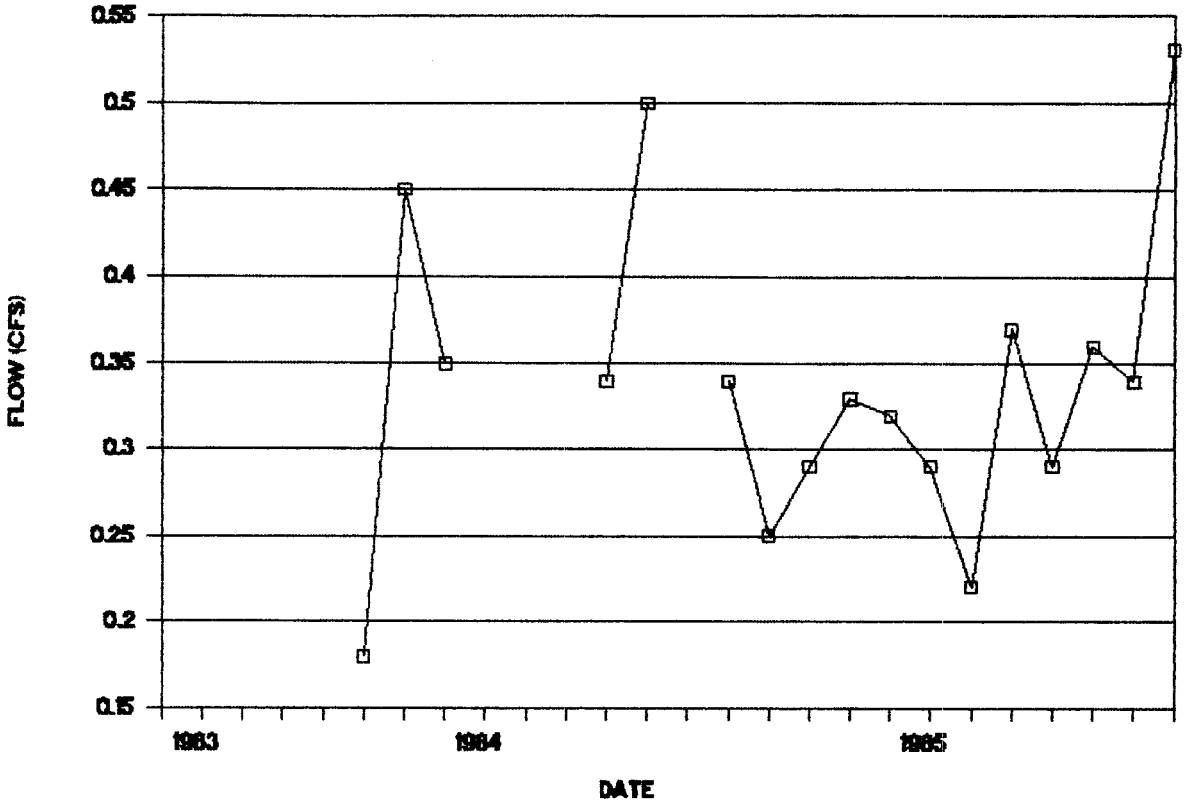

SOLIDS - SITE CS-11
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


IRON/MANGANESE – SITE CS–11
CONCENTRATION (MG/L)
10
9
8
7
6
5
4
3
2
1
0
1981
1982
1983
1984
DATE
IRON - TOTAL
MANGANESE - TOTAL

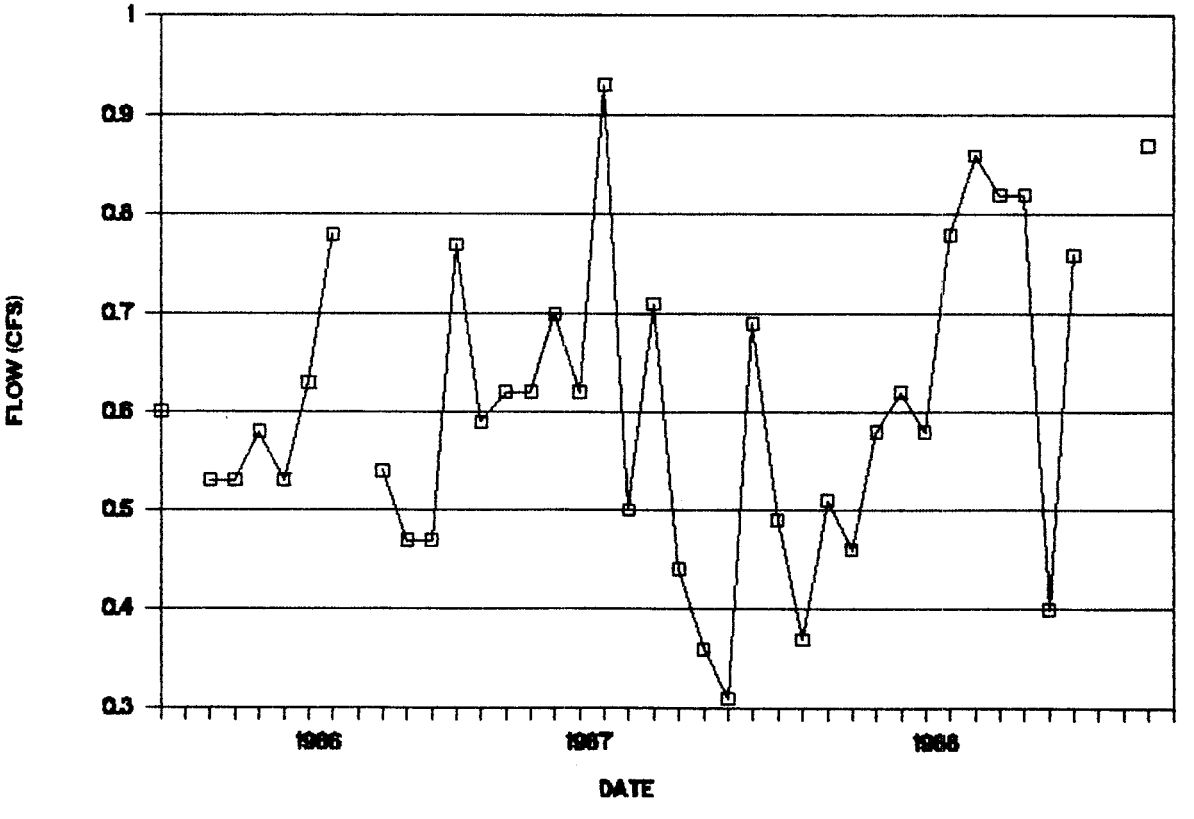

IRON/MANGANESE – SITE CS–11
CONCENTRATION (MG/L)
9
8
7
6
5
4
3
2
1
0
1985
1986
1987
1988
DATE
IRON - TOTAL
MANGANESE - TOTAL

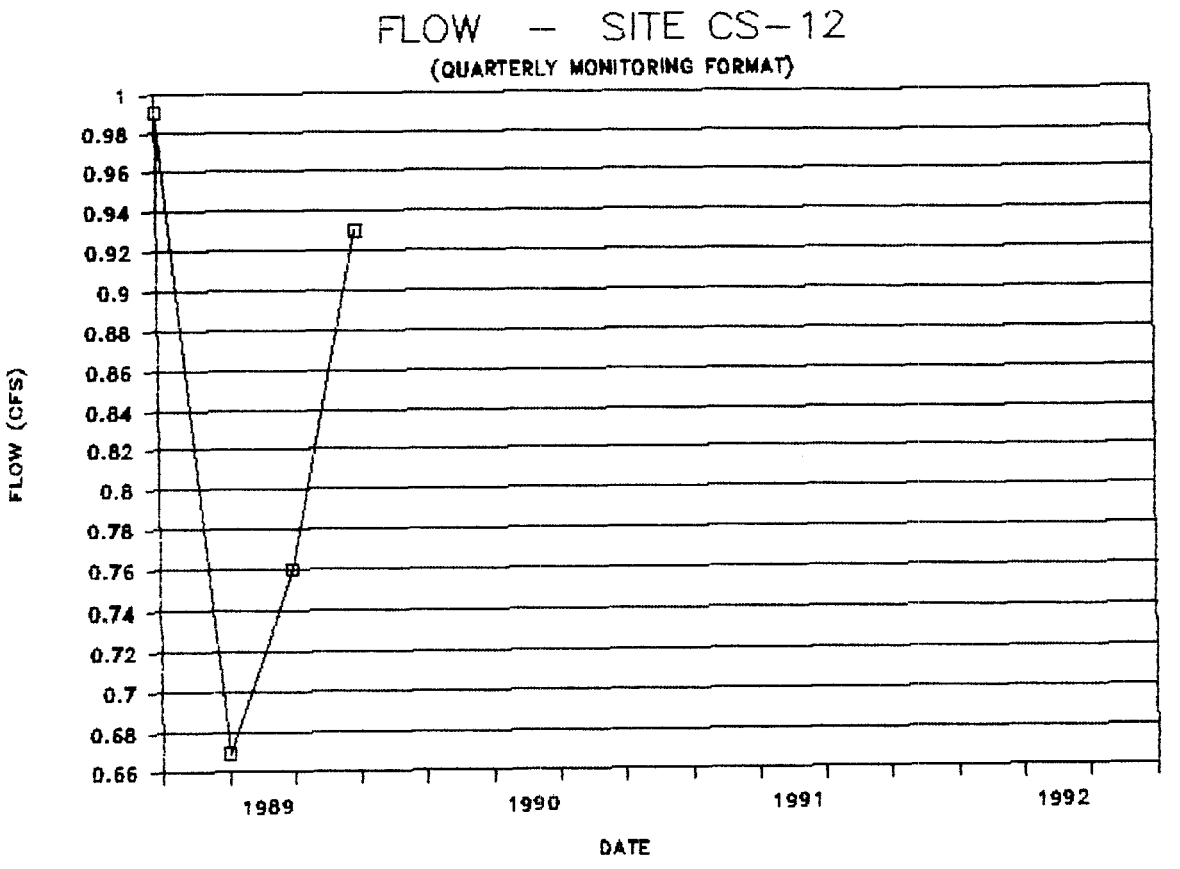

IRON/MANGANESE - SITE CS-11
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

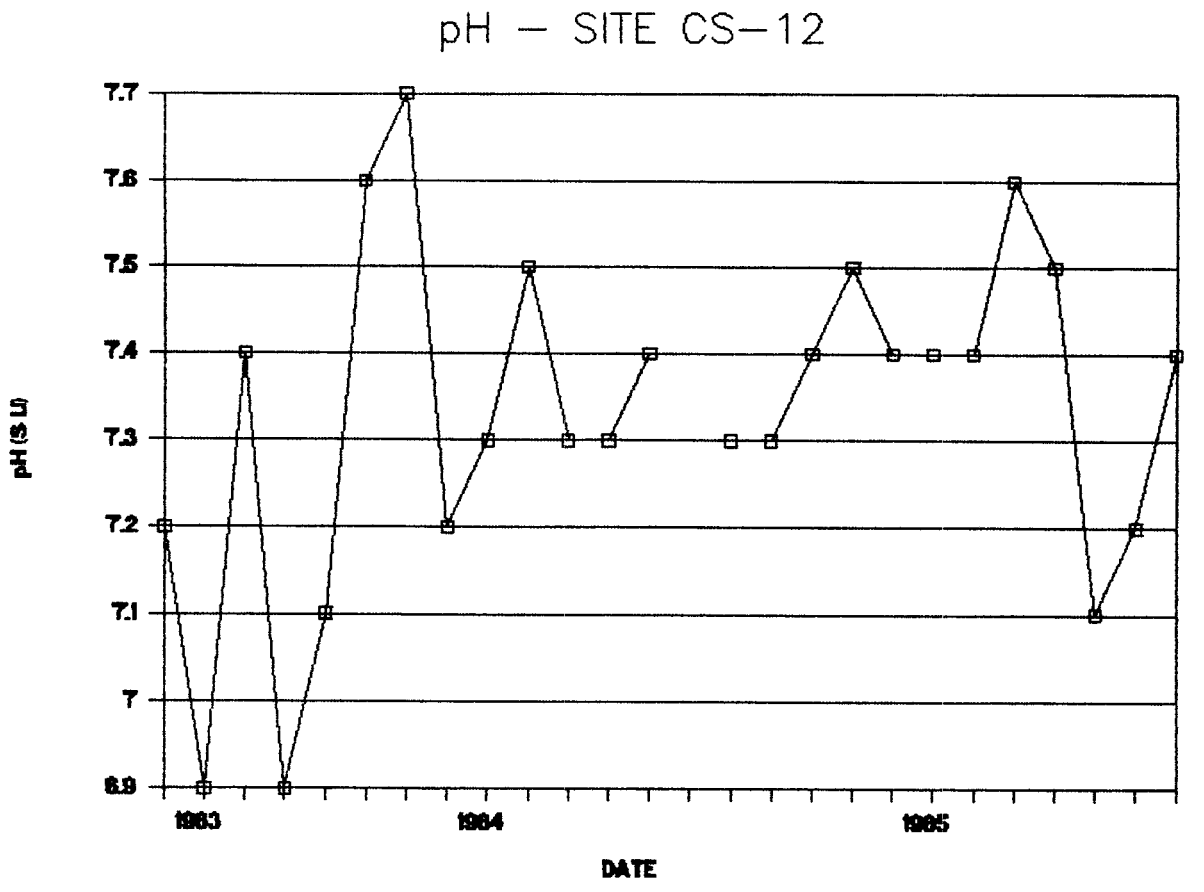
FLOW – SITE CS–12

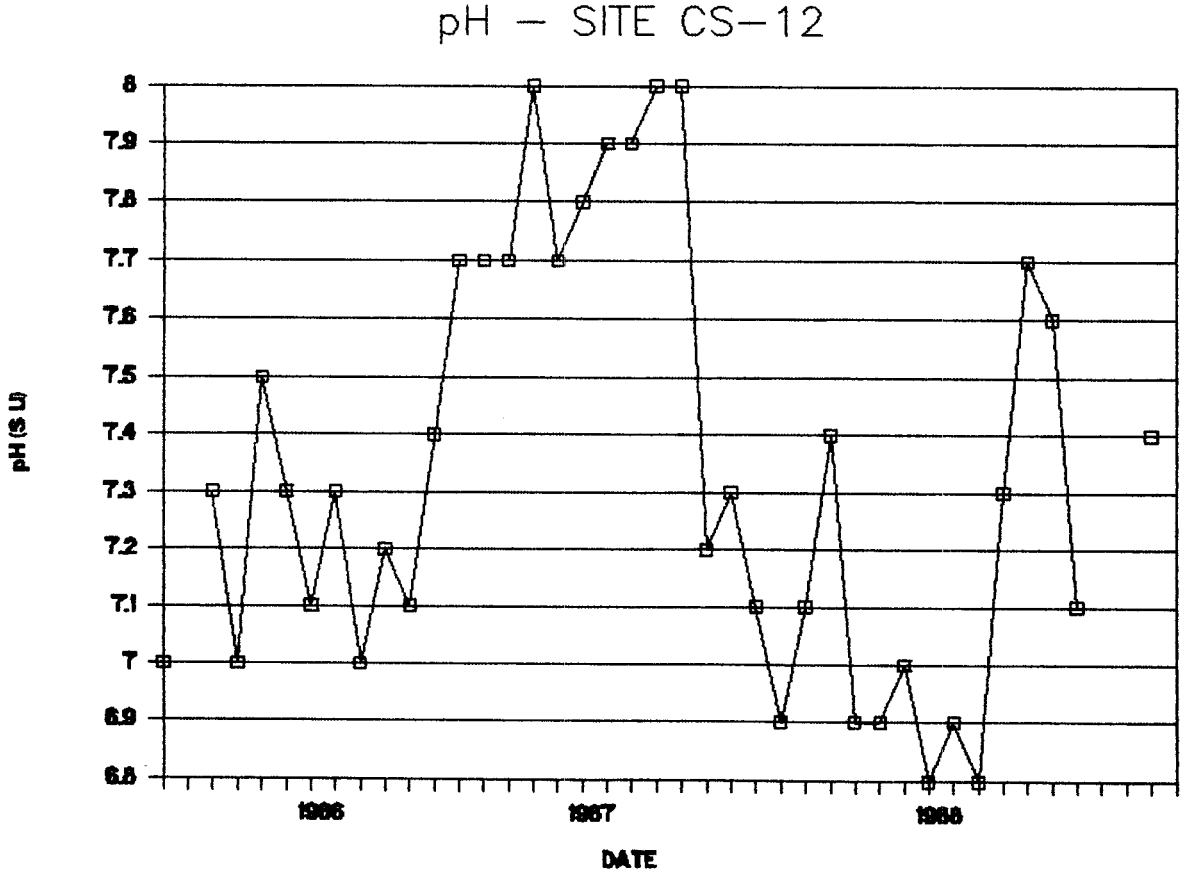


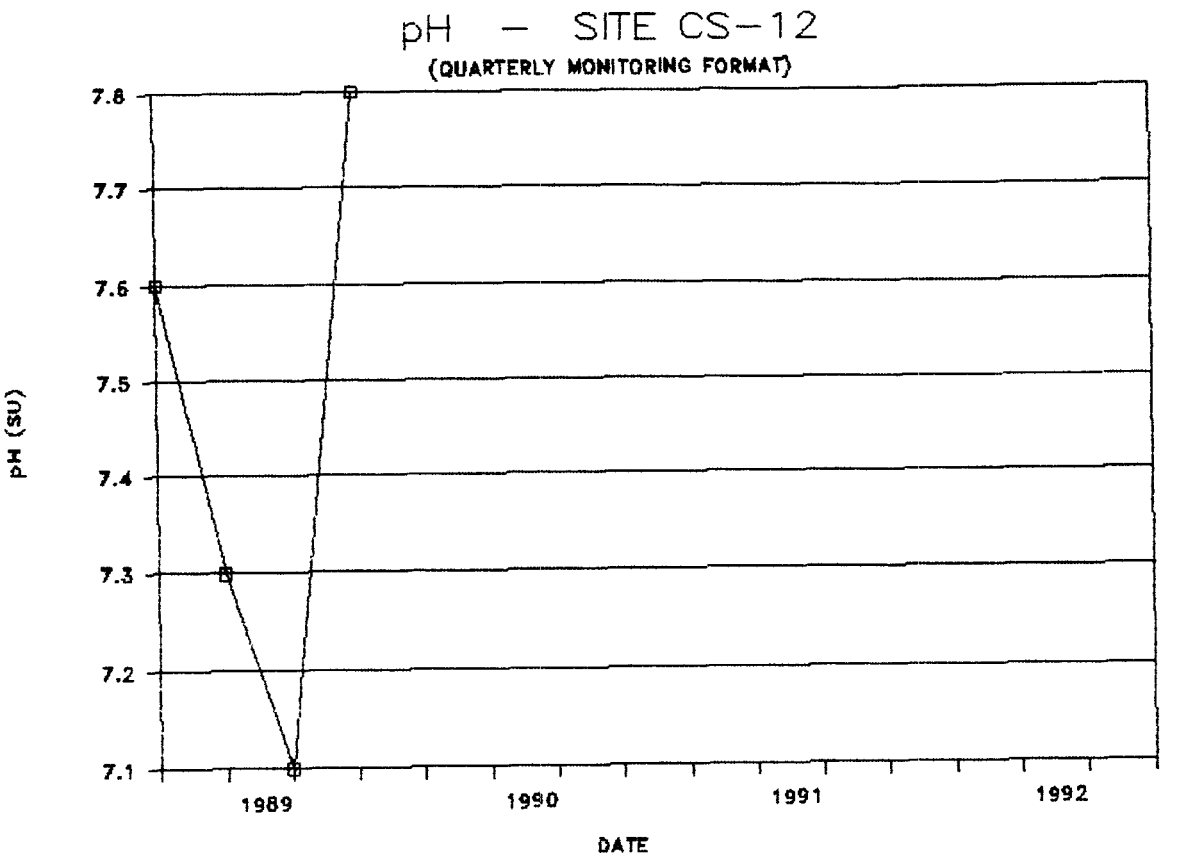
FLOW – SITE CS–12

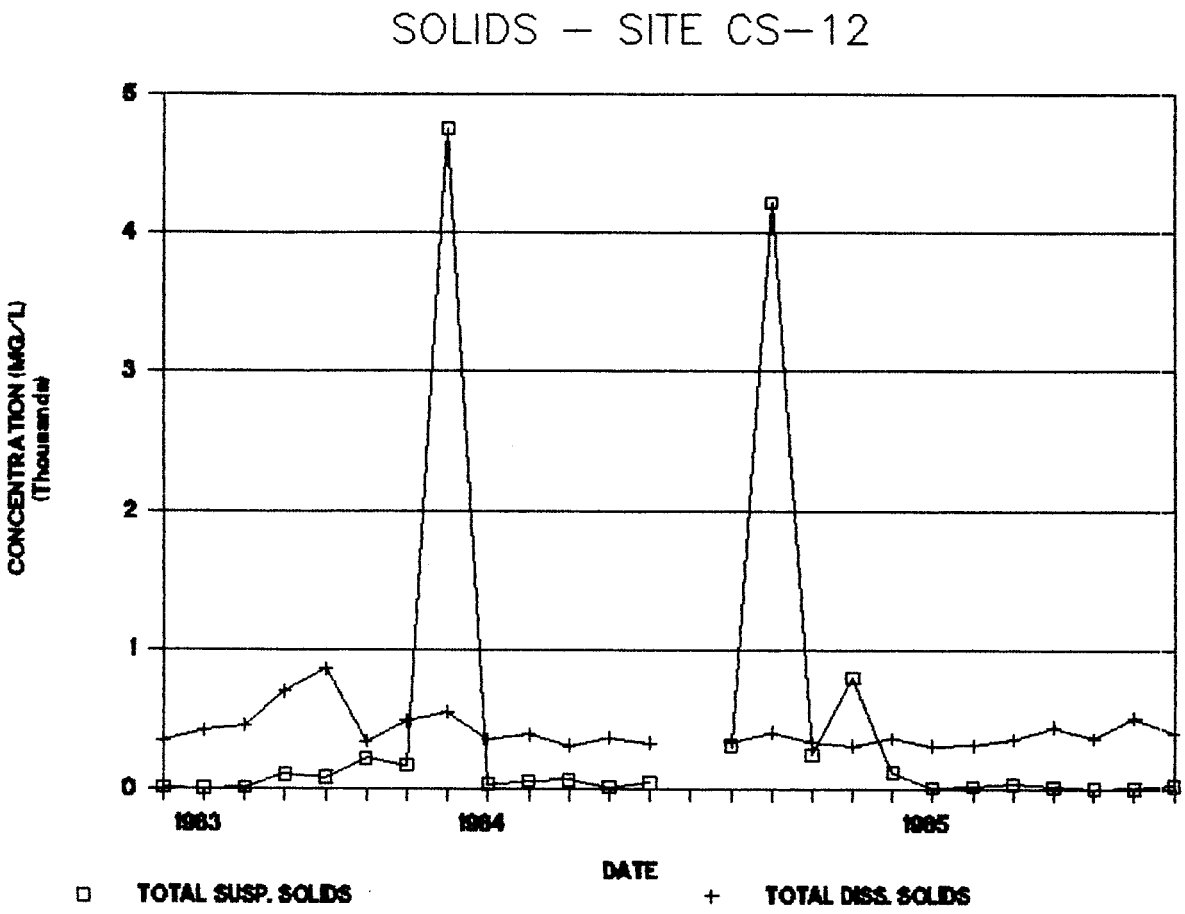


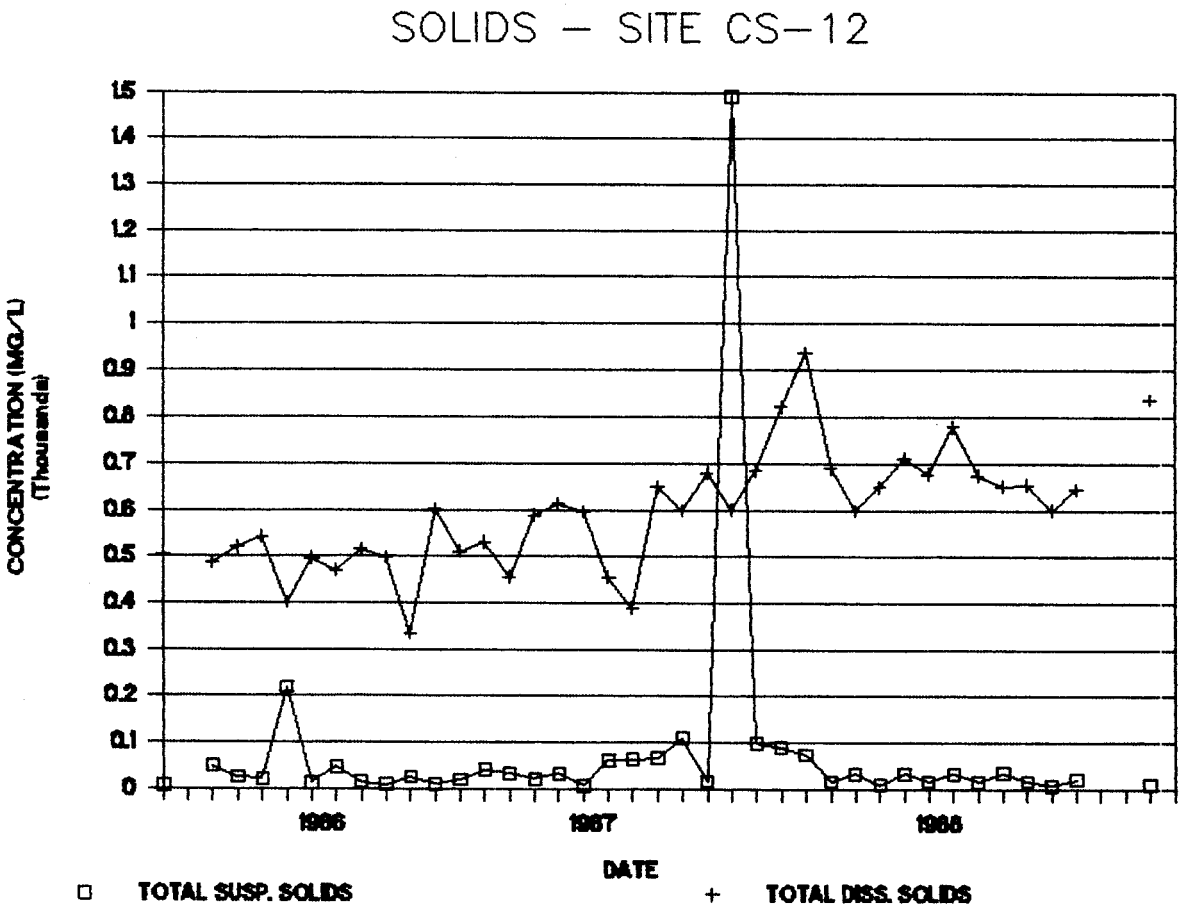

FLOW - SITE CS-12
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
1
0.98
0.96
0.94
0.92
0.9
0.88
0.86
0.84
0.82
0.8
0.78
0.76
0.74
0.72
0.7
0.68
0.66
1989
1990
1991
1992
DATE

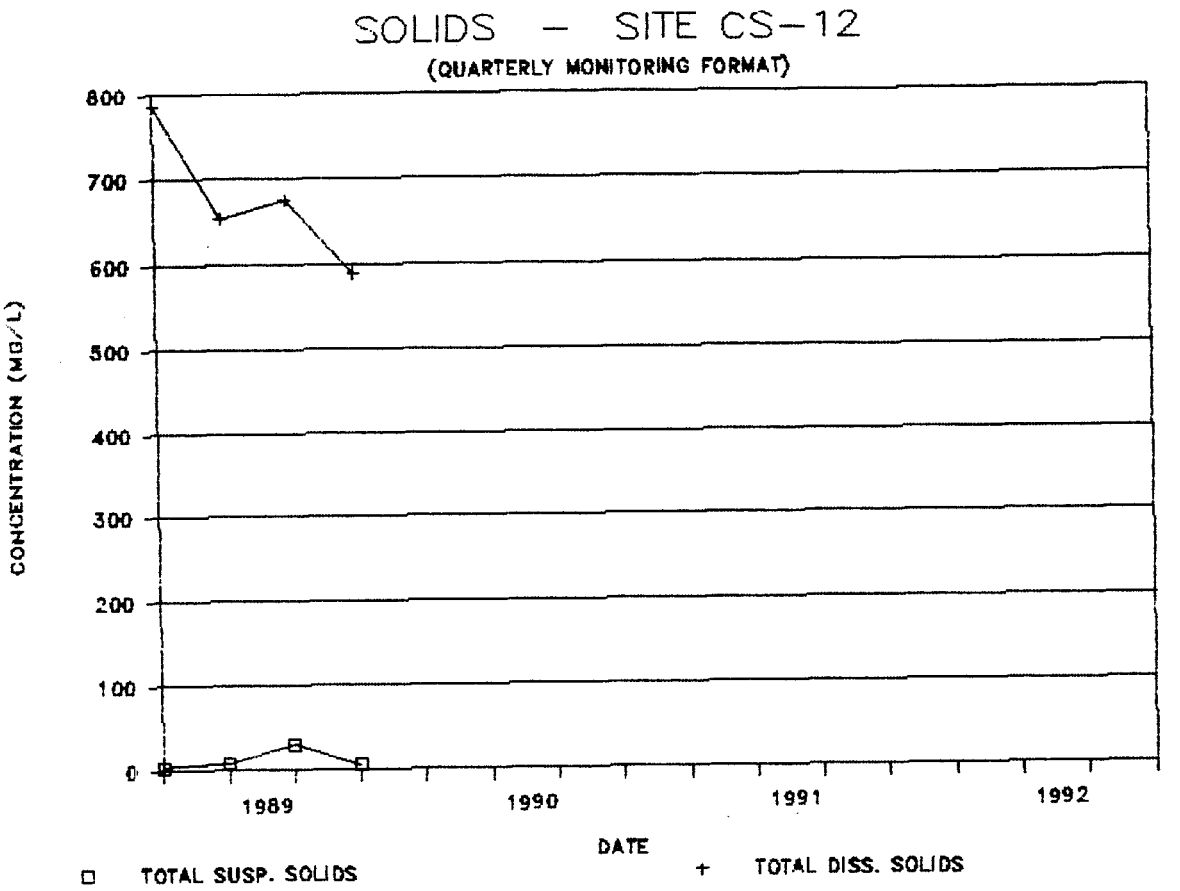

pH – SITE CS–12
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
pH (S U)
1983
1984
1985
DATE

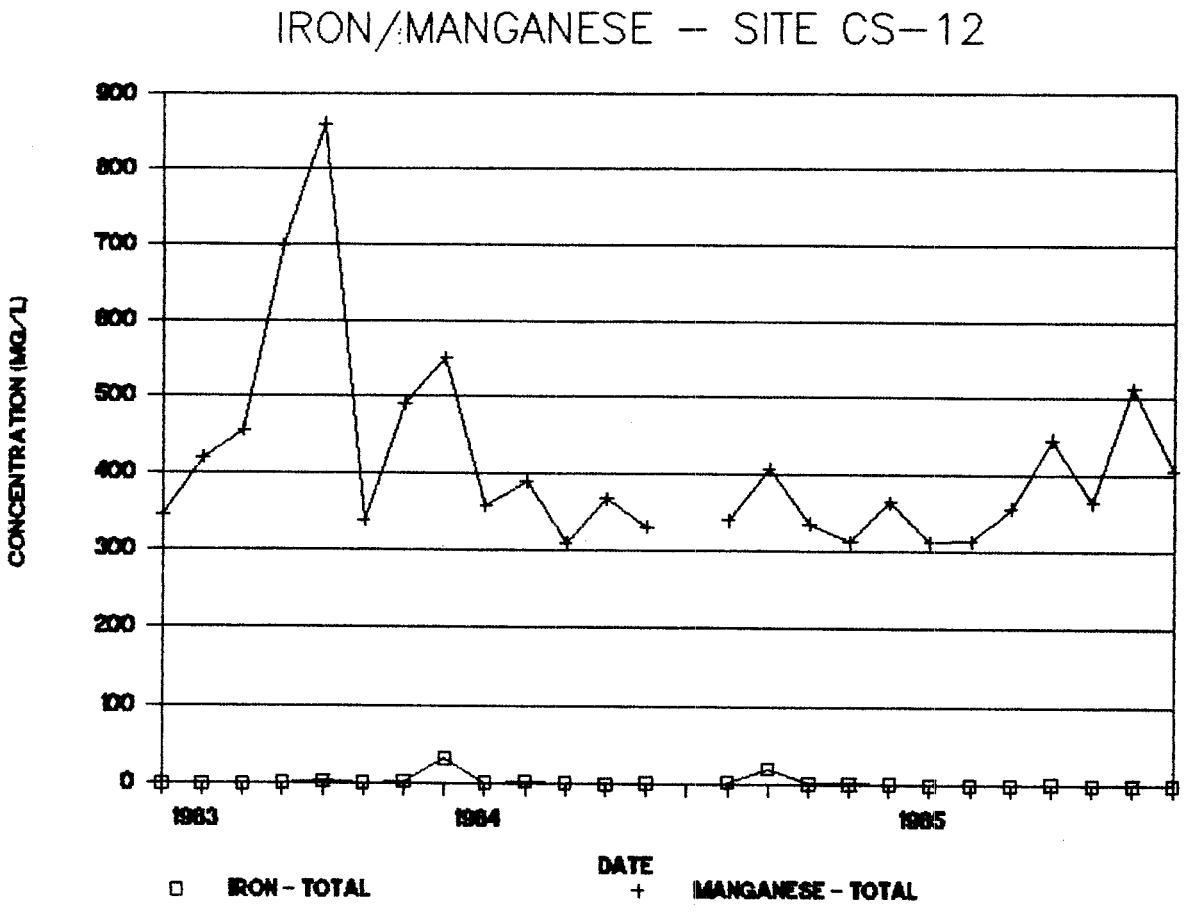

pH – SITE CS–12
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
pH (S U)
1986
1987
1988
DATE

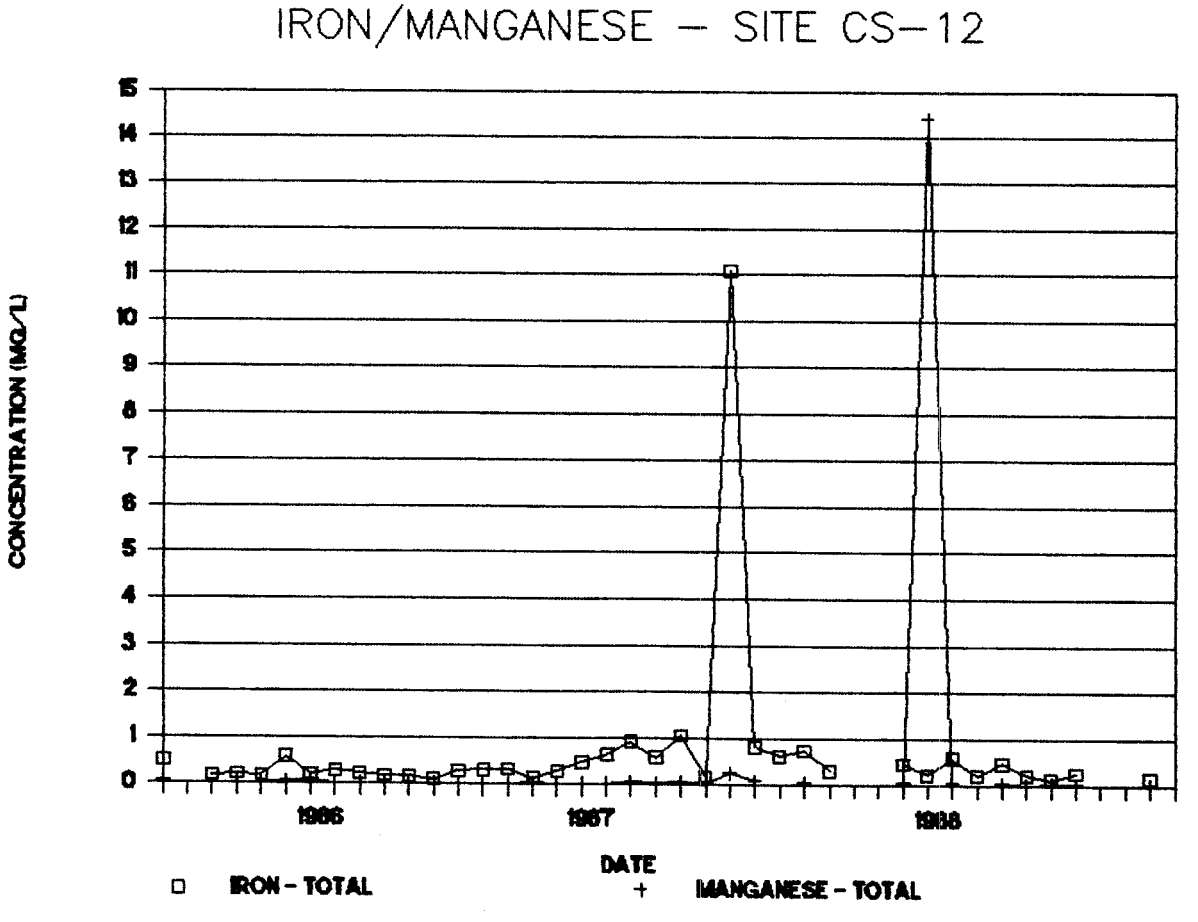

pH - SITE CS-12
(QUARTERLY MONITORING FORMAT)
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
pH (SU)
1989
1990
1991
1992
DATE

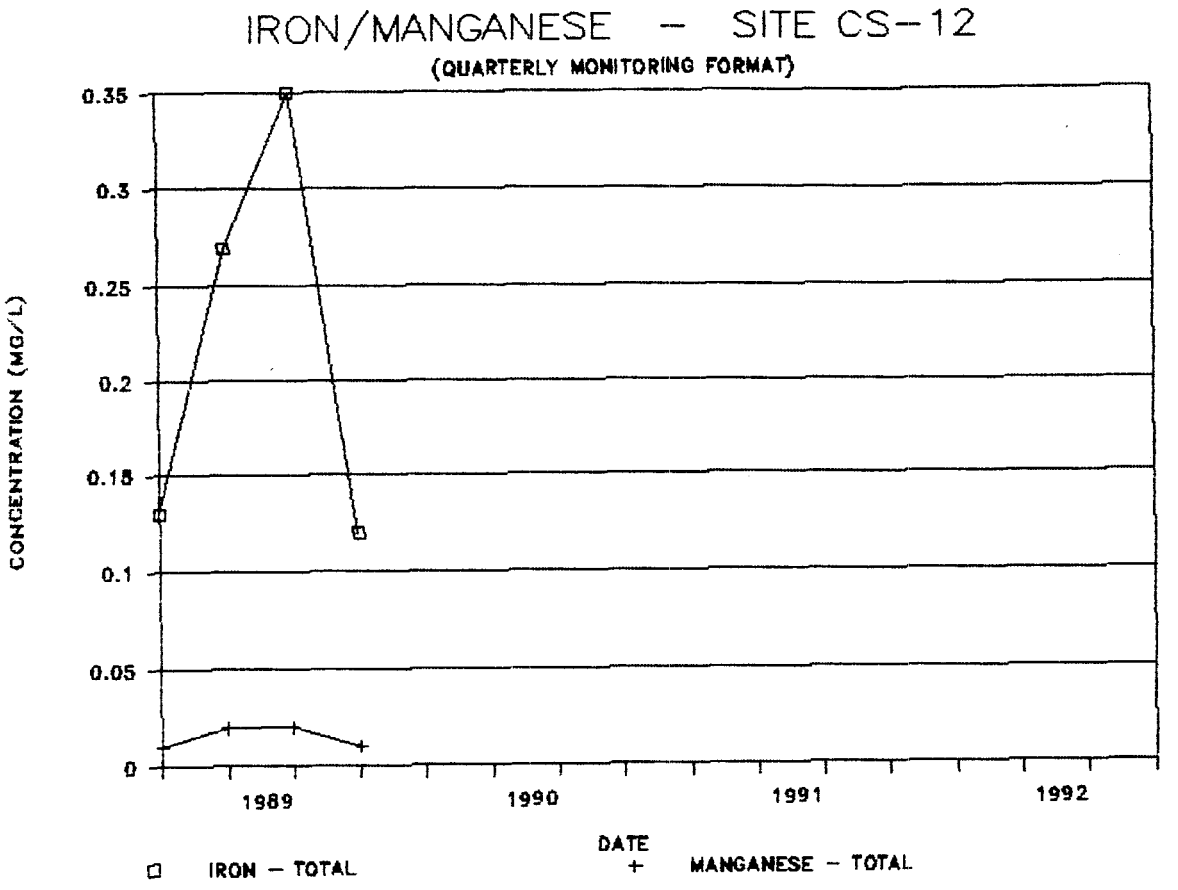

SOLIDS – SITE CS–12
CONCENTRATION (MG/L)
(Thousands)
5
4
3
2
1
0
1983
1984
1985
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


SOLIDS – SITE CS–12
CONCENTRATION (MG/L)
(Thousands)
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

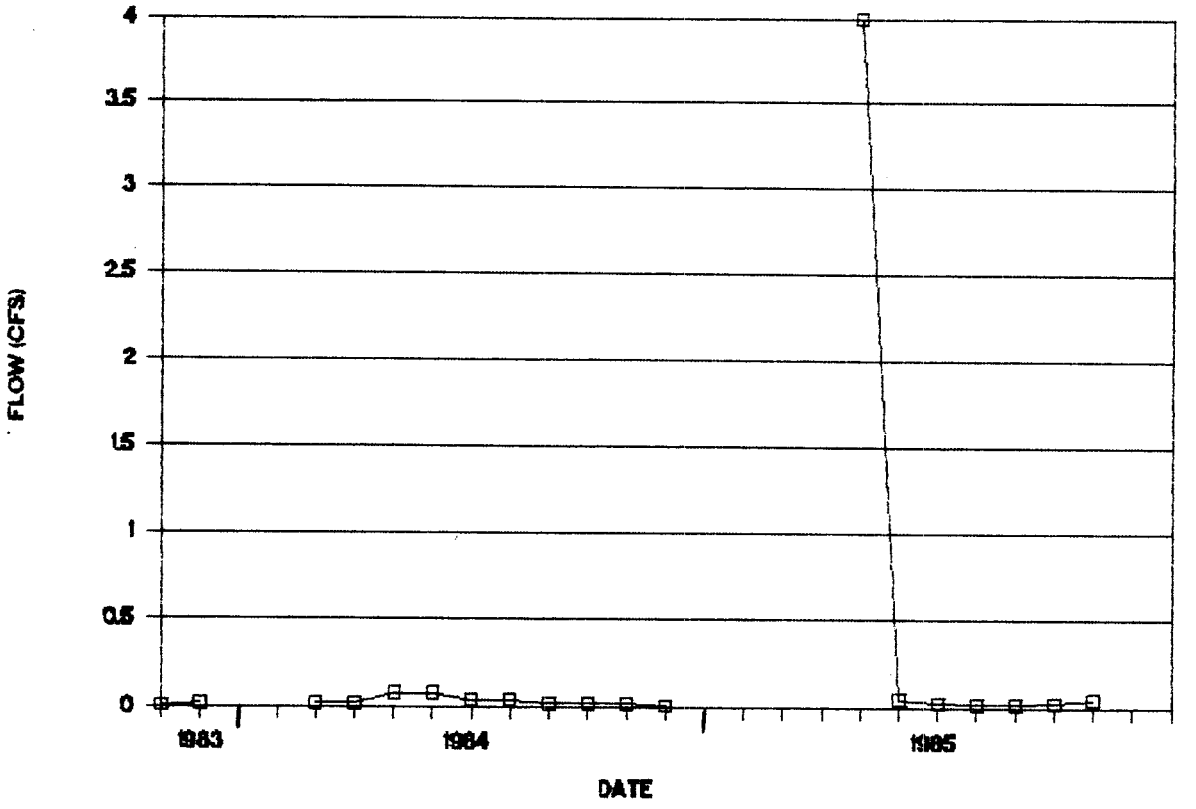

SOLIDS - SITE CS-12
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
800
700
600
500
400
300
200
100
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


IRON/MANGANESE – SITE CS–12
CONCENTRATION (MG/L)
900
800
700
600
500
400
300
200
100
0
1983
1984
1985
DATE
IRON – TOTAL
MANGANESE – TOTAL

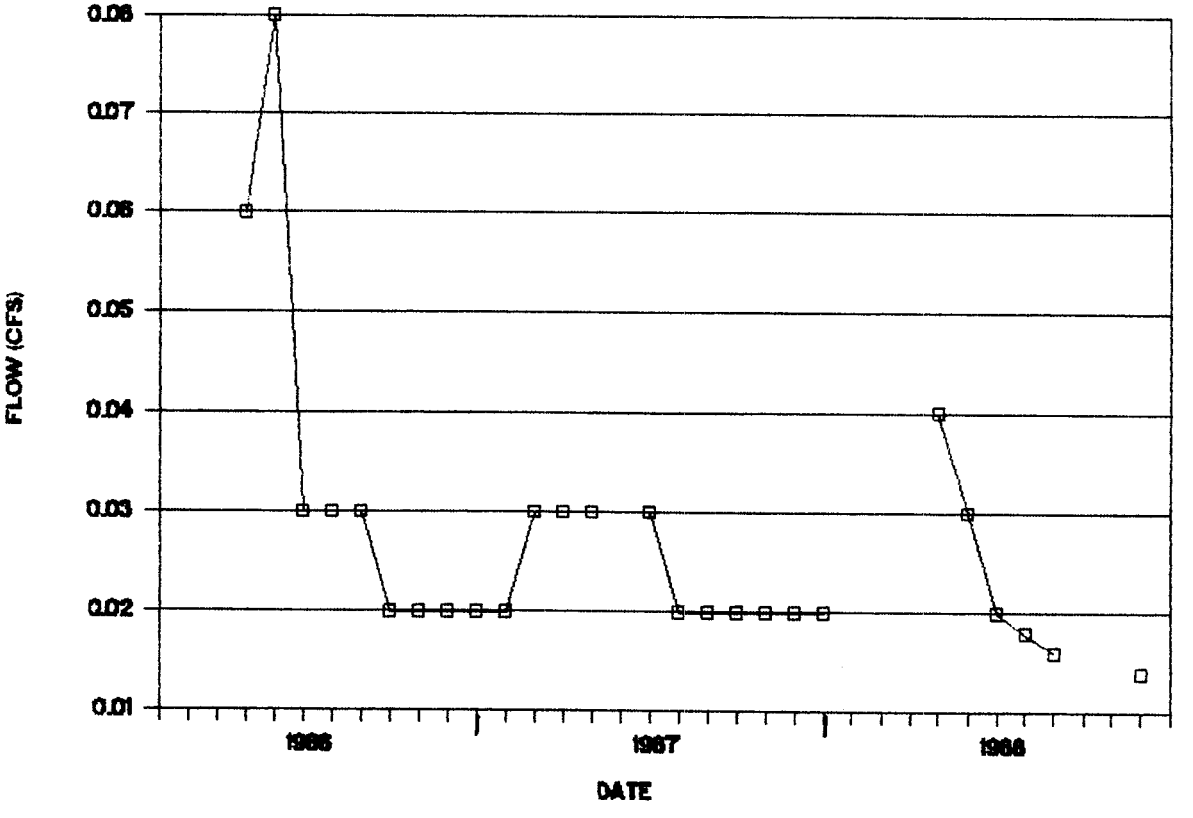

IRON/MANGANESE – SITE CS–12
CONCENTRATION (MG/L)
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
1986
1987
1988
DATE
IRON – TOTAL
MANGANESE – TOTAL

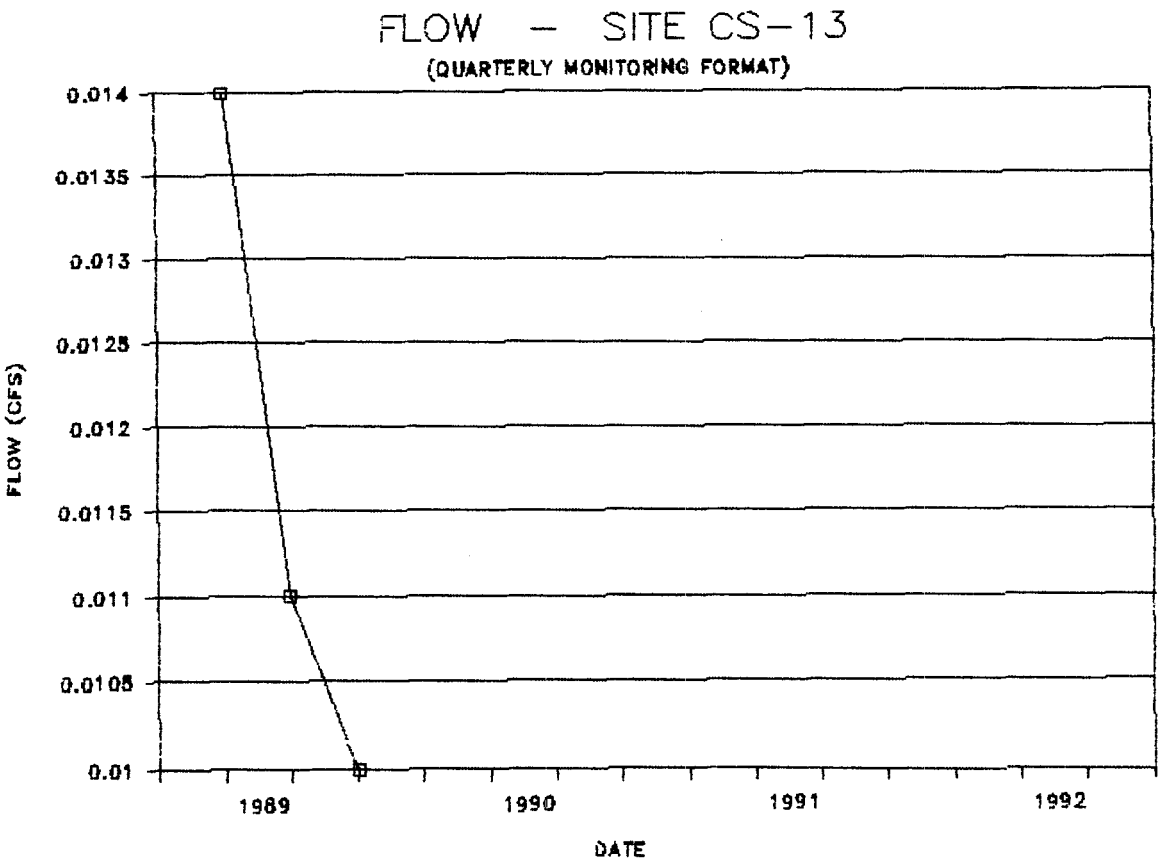

IRON/MANGANESE - SITE CS-12
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

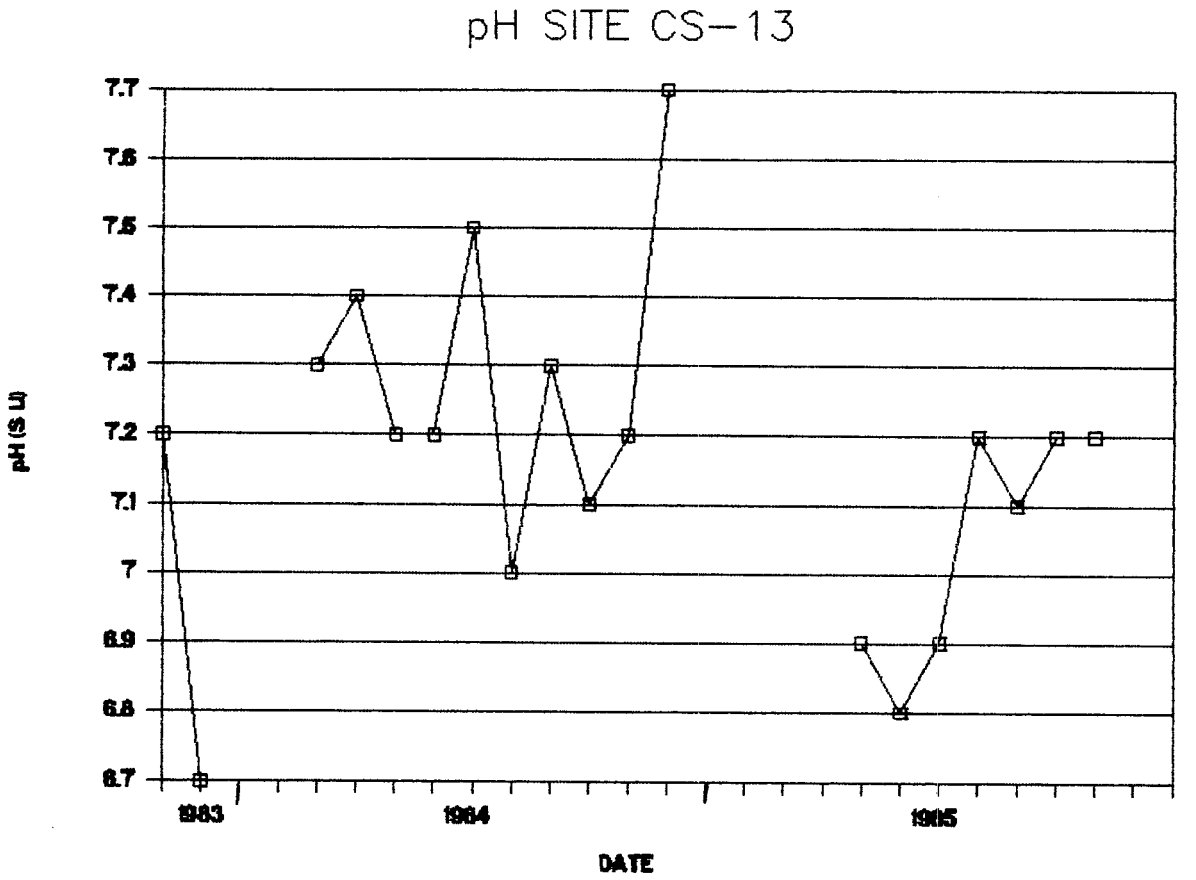
FLOW SITE CS-13

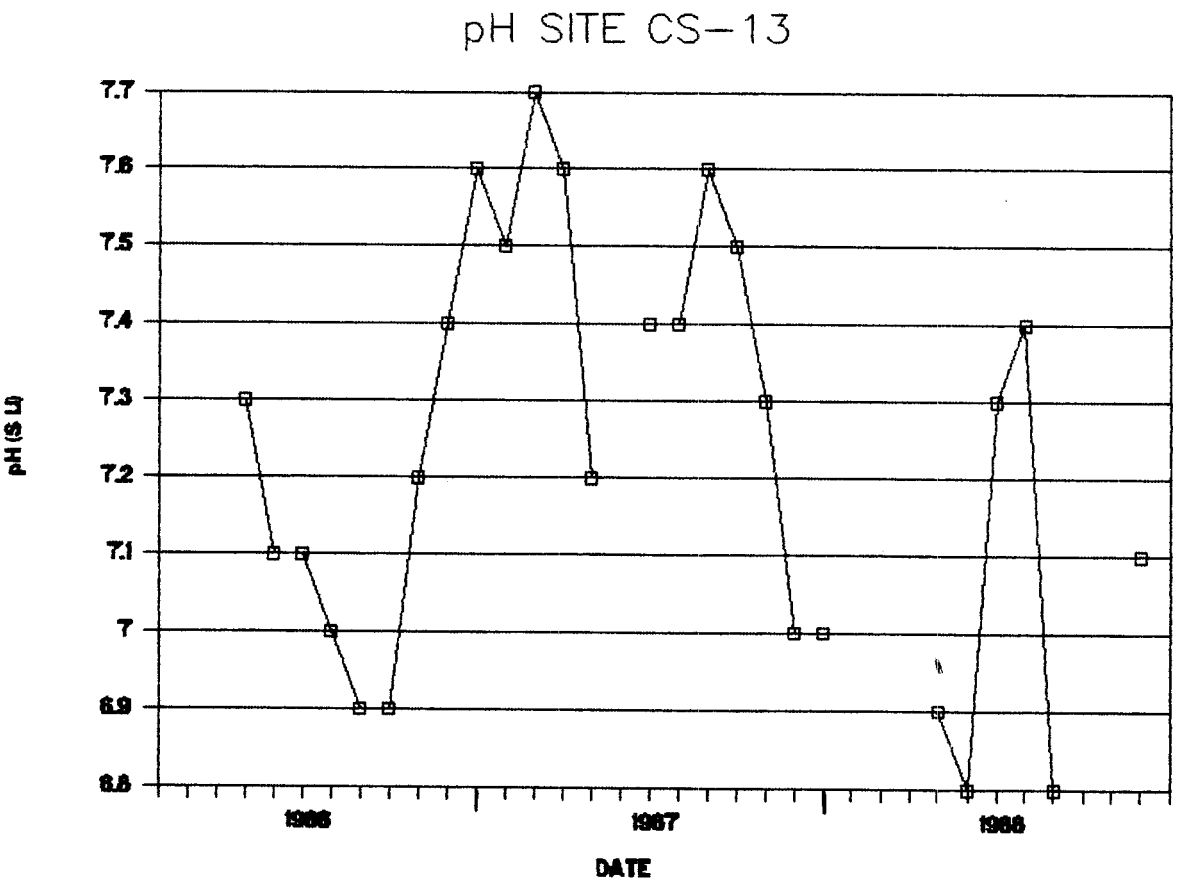


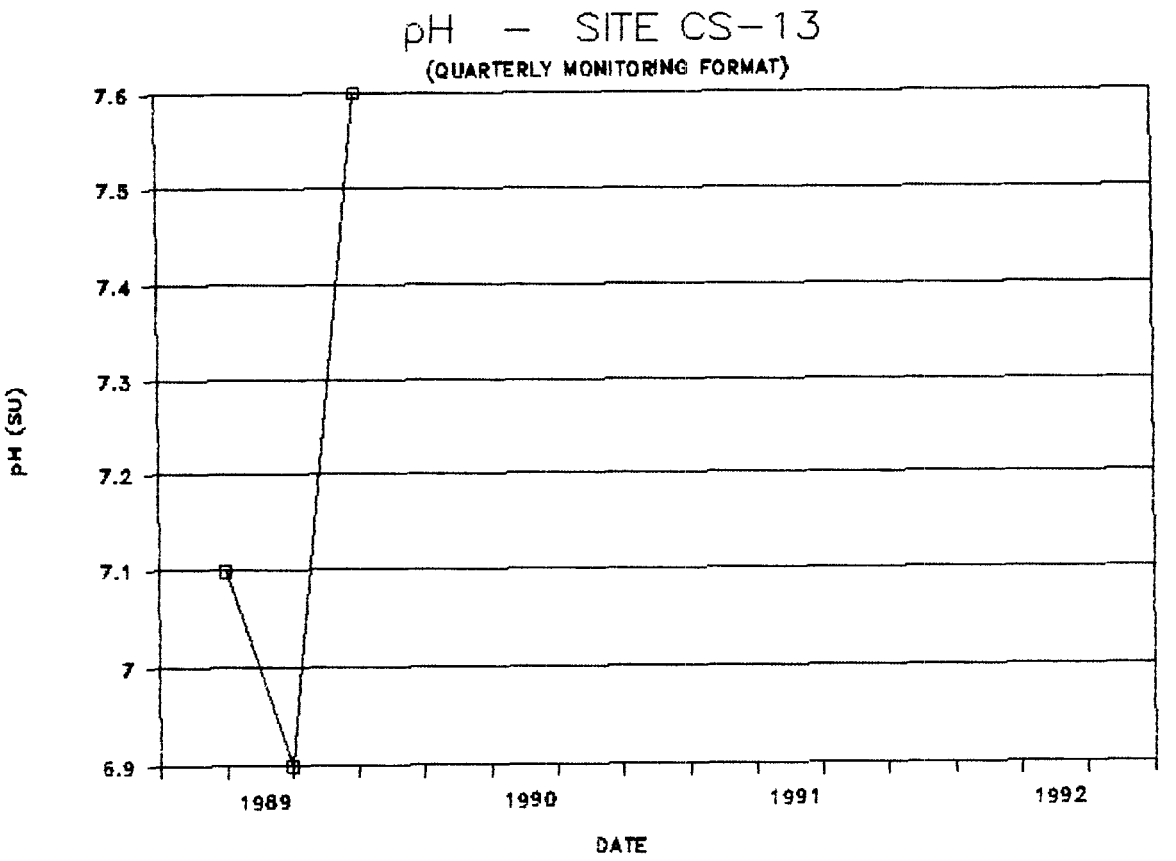
FLOW SITE CS-13



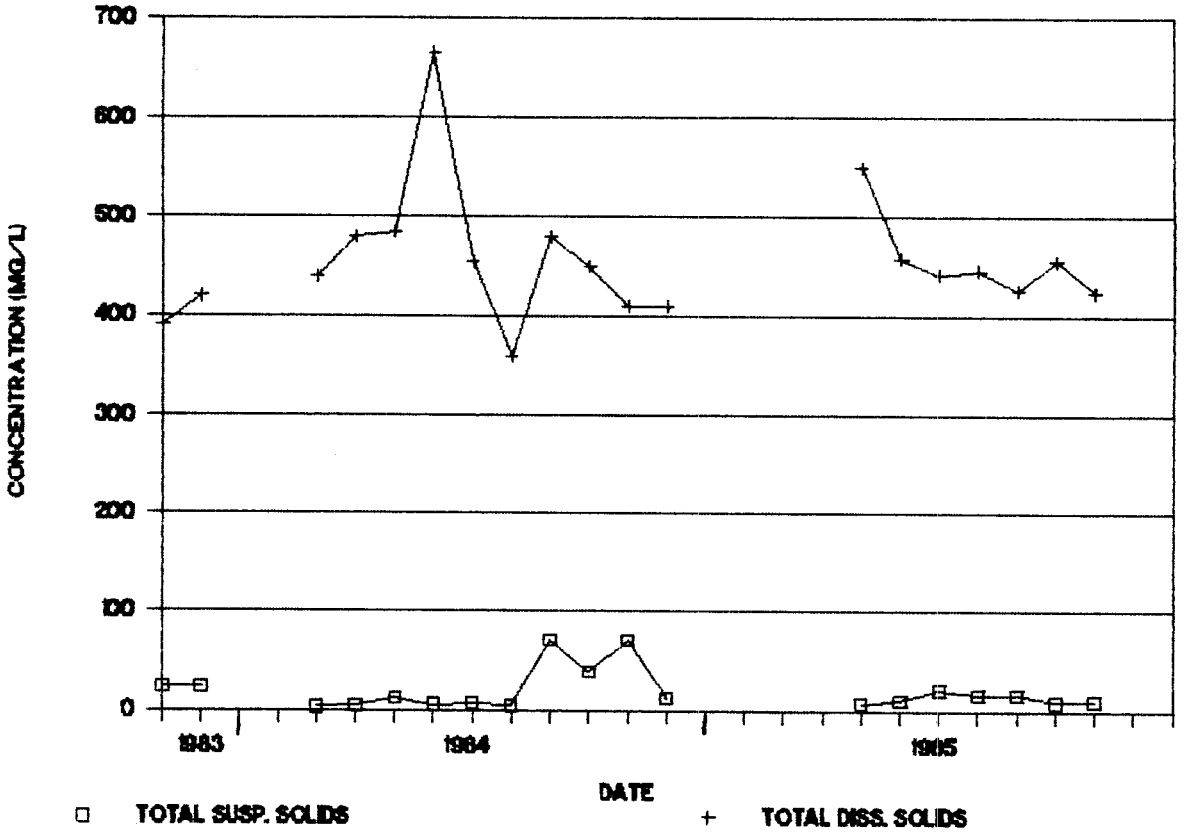

FLOW - SITE CS-13
(QUARTERLY MONITORING FORMAT)
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
FLOW (CFS)
1989
1990
1991
1992
DATE


pH SITE CS-13
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
pH (S U)
1983
1984
1985
DATE

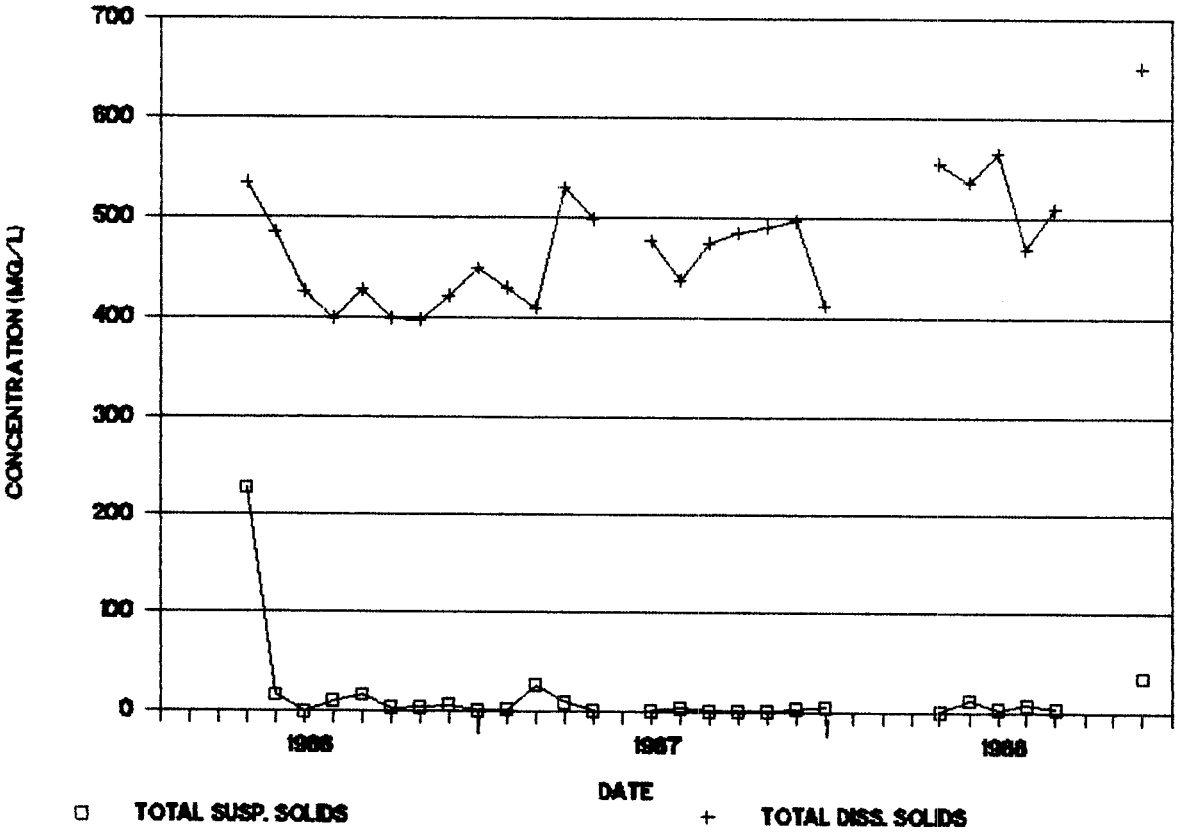

pH SITE CS-13
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
pH (S U)
1986
1987
1988
DATE

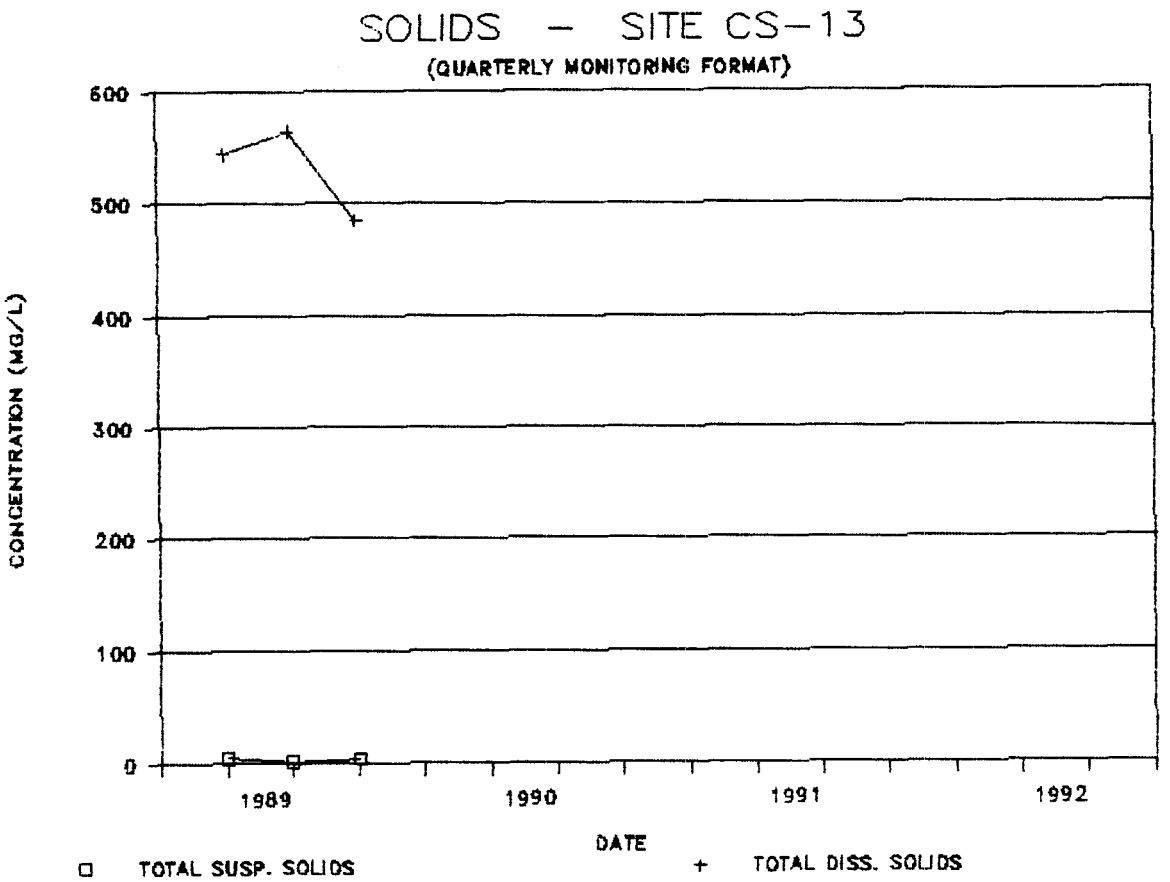

pH - SITE CS-13
(QUARTERLY MONITORING FORMAT)
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
pH (SU)
1989
1990
1991
1992
DATE

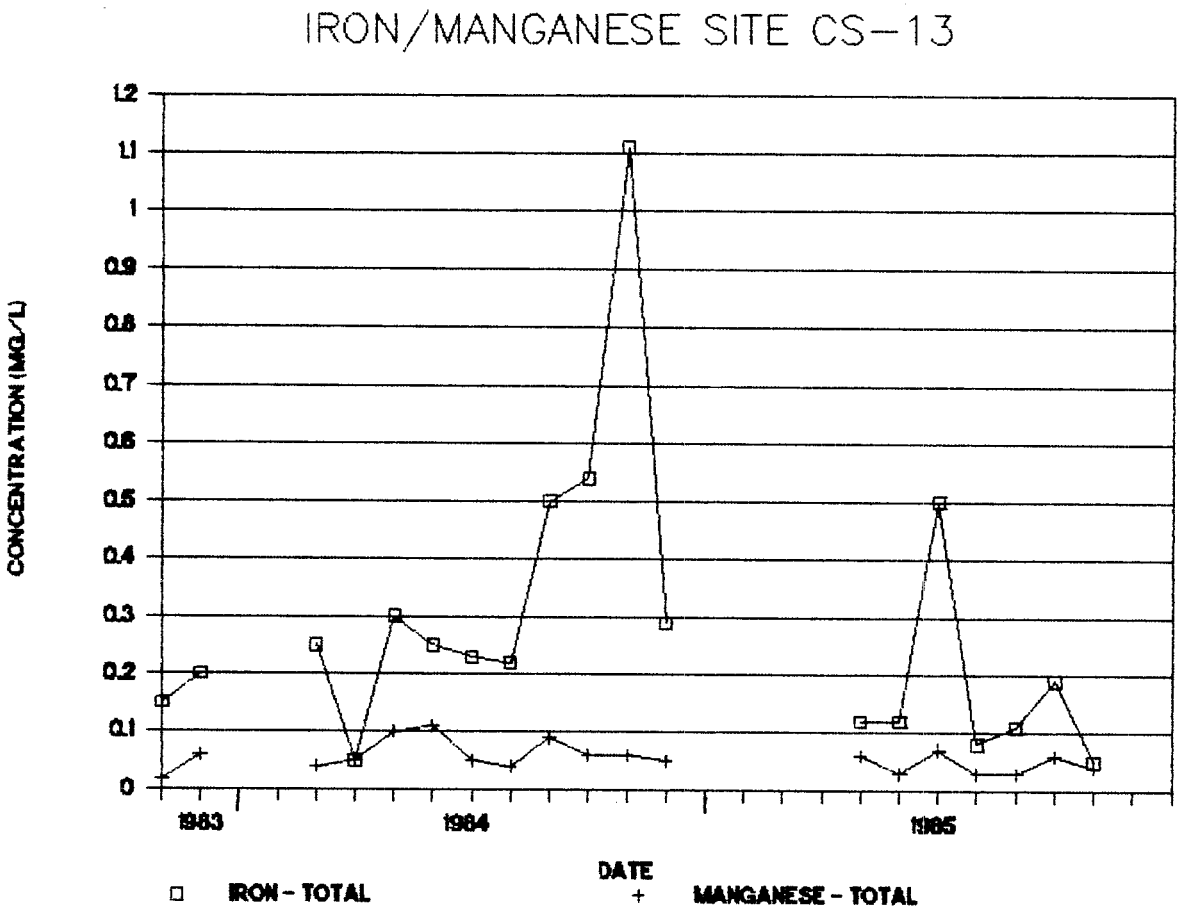
SOLIDS SITE CS-13

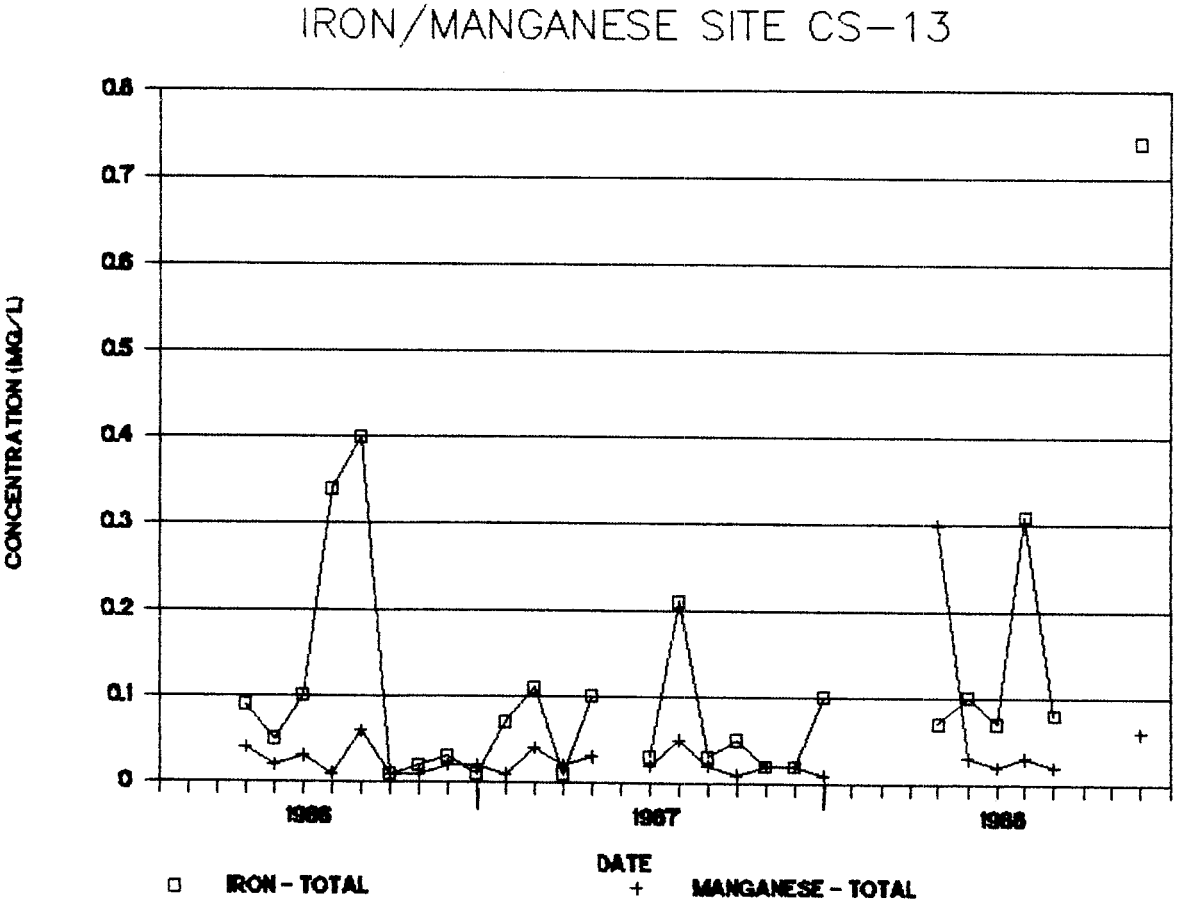


SOLIDS SITE CS-13



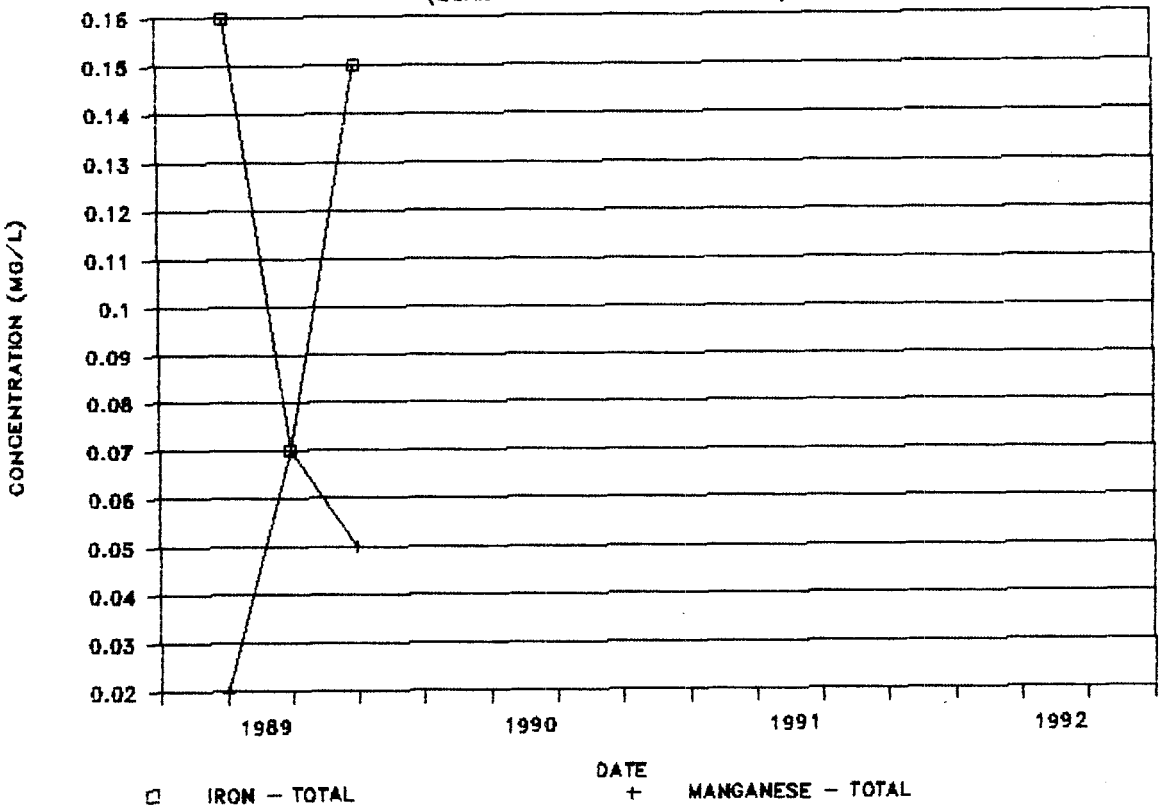

SOLIDS - SITE CS-13
(QUARTERLY MONITORING FORMAT)
600
500
400
300
200
100
0
CONCENTRATION (MG/L)
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

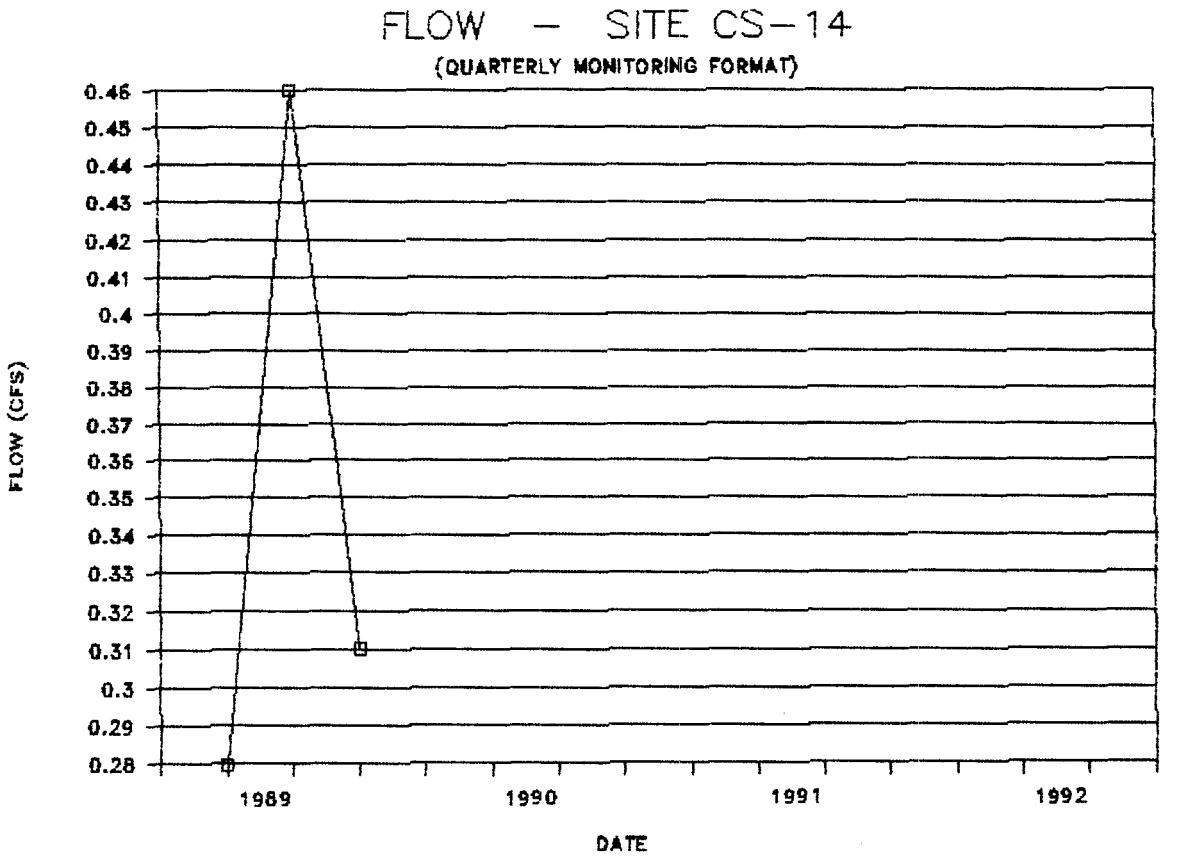

IRON/MANGANESE SITE CS-13
CONCENTRATION (MG/L)
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1983
1984
1985
DATE
IRON - TOTAL
MANGANESE - TOTAL

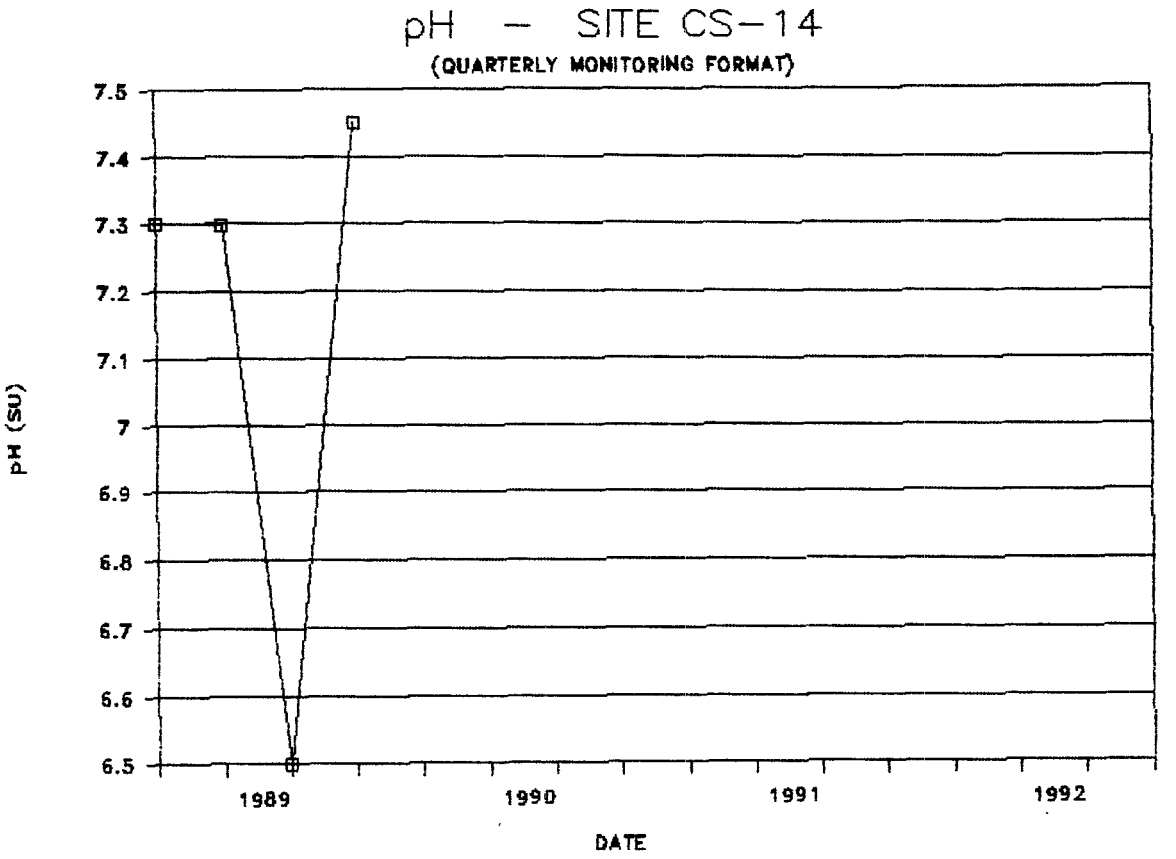

IRON/MANGANESE SITE CS-13
CONCENTRATION (MG/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1986
1987
1988
DATE
IRON - TOTAL
MANGANESE - TOTAL

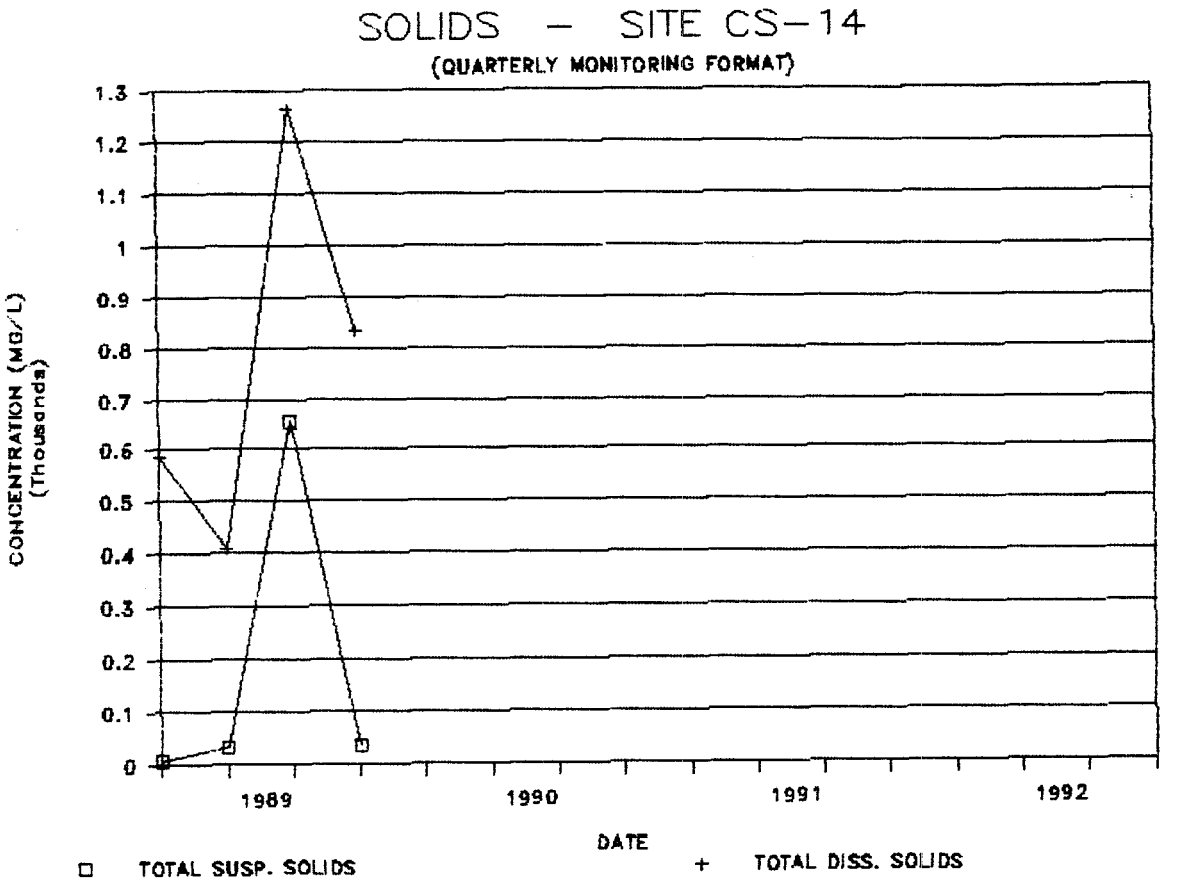
IRON/MANGANESE – SITE CS-13

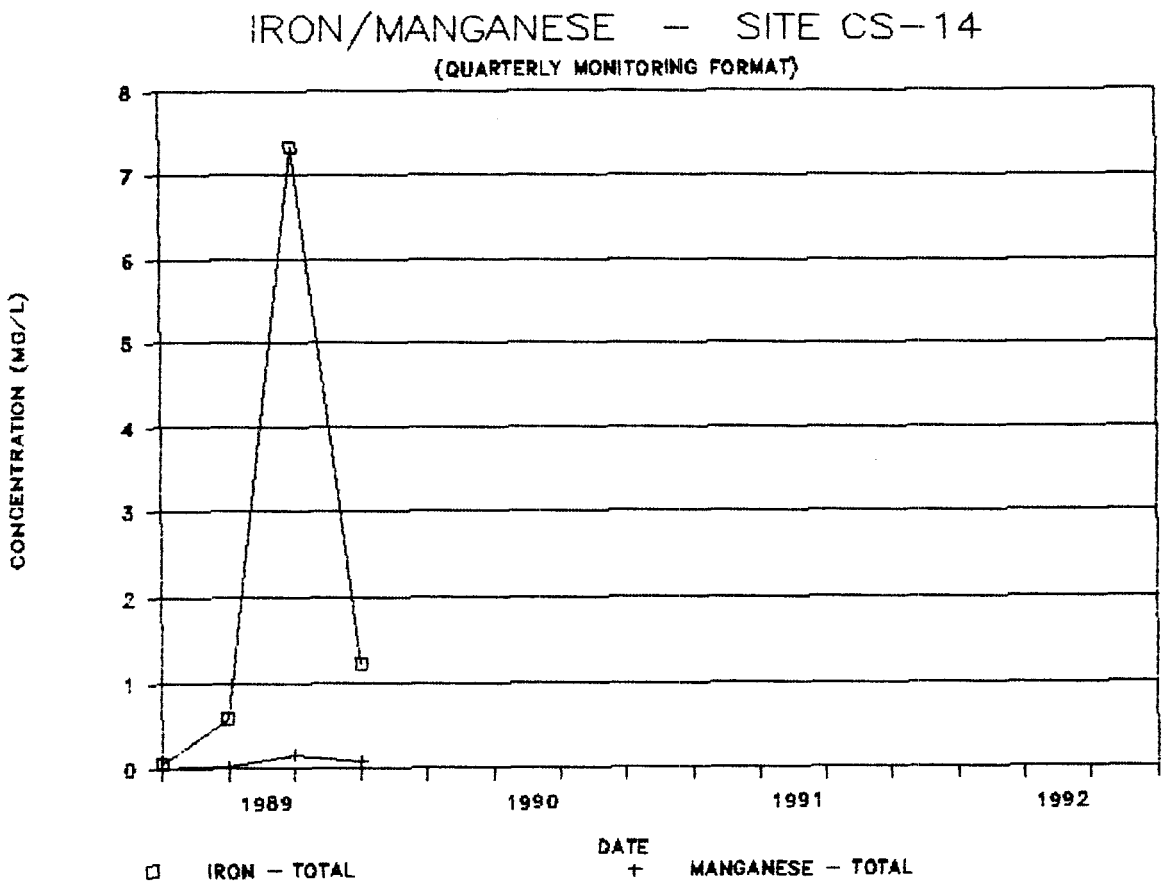
(QUARTERLY MONITORING FORMAT)

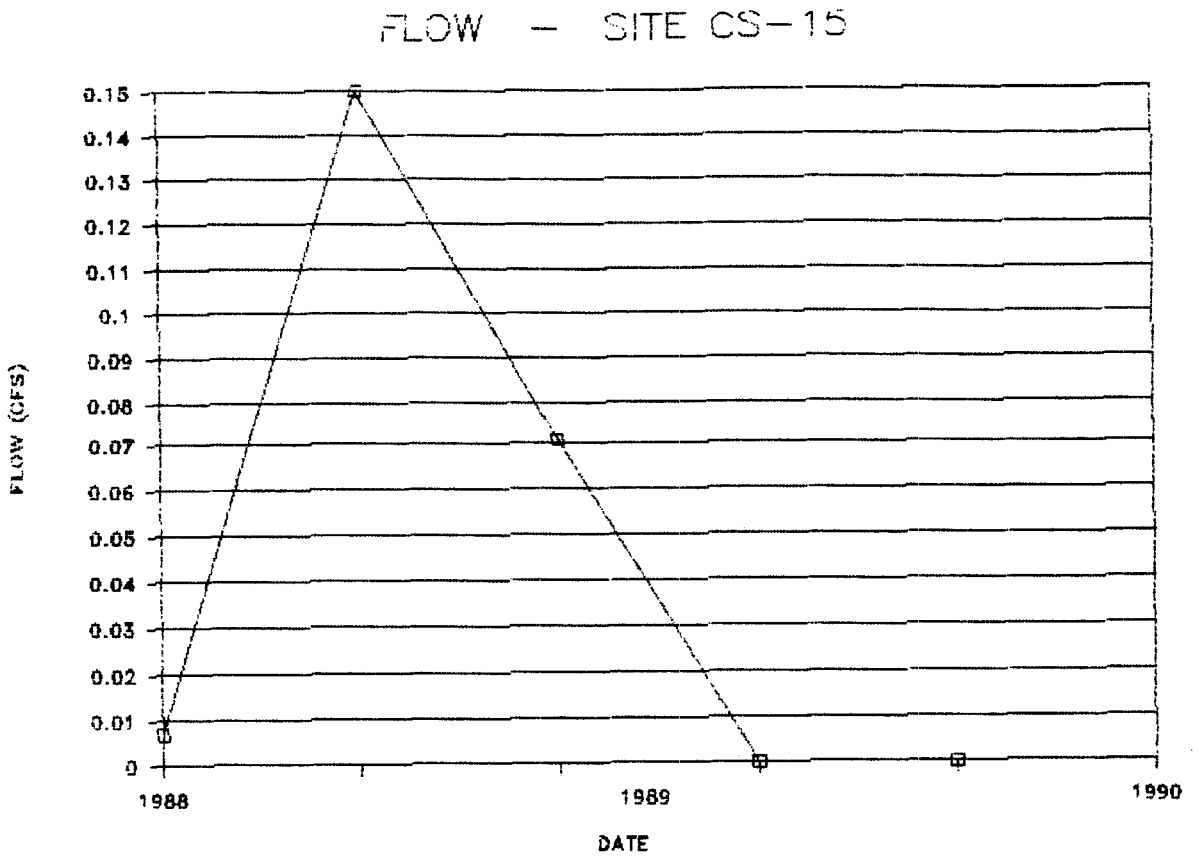


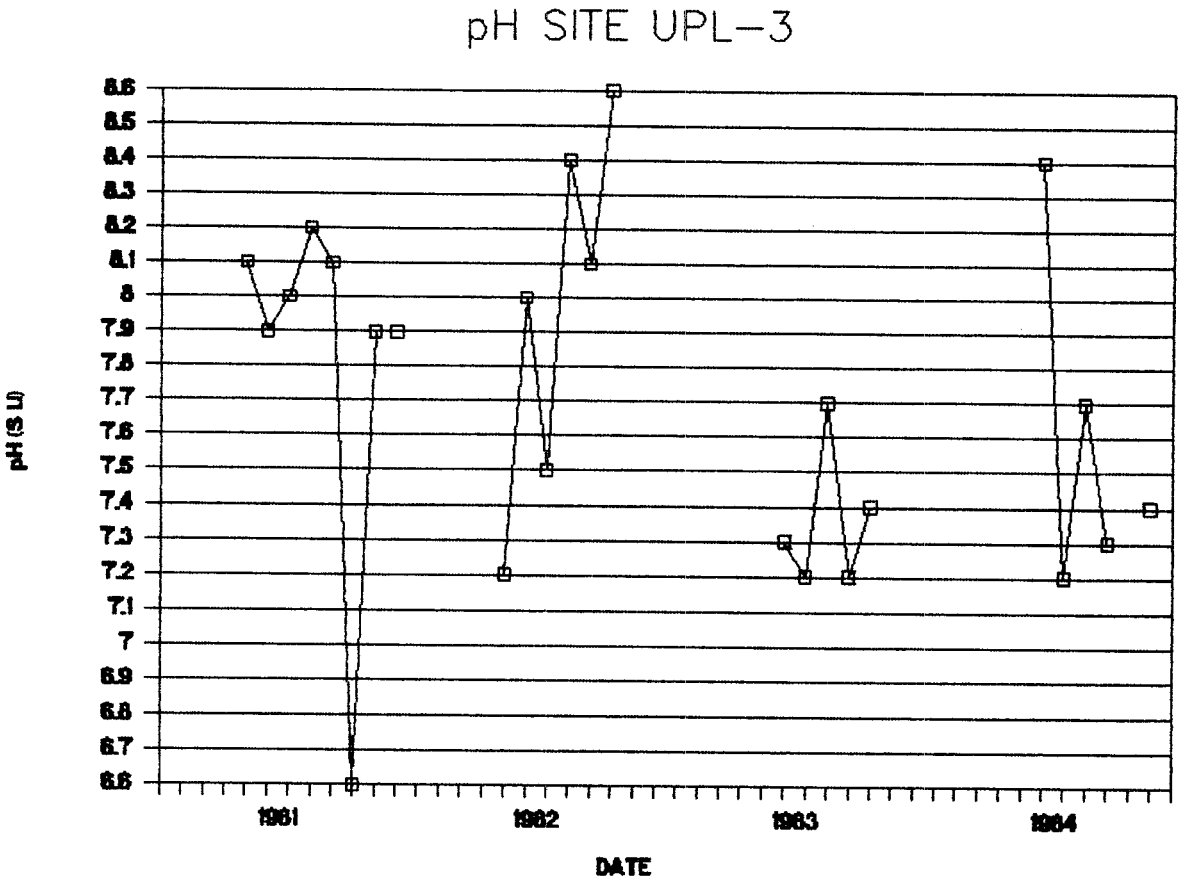

FLOW - SITE CS-14
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.46
0.45
0.44
0.43
0.42
0.41
0.4
0.39
0.38
0.37
0.36
0.35
0.34
0.33
0.32
0.31
0.3
0.29
0.28
1989
1990
1991
1992
DATE

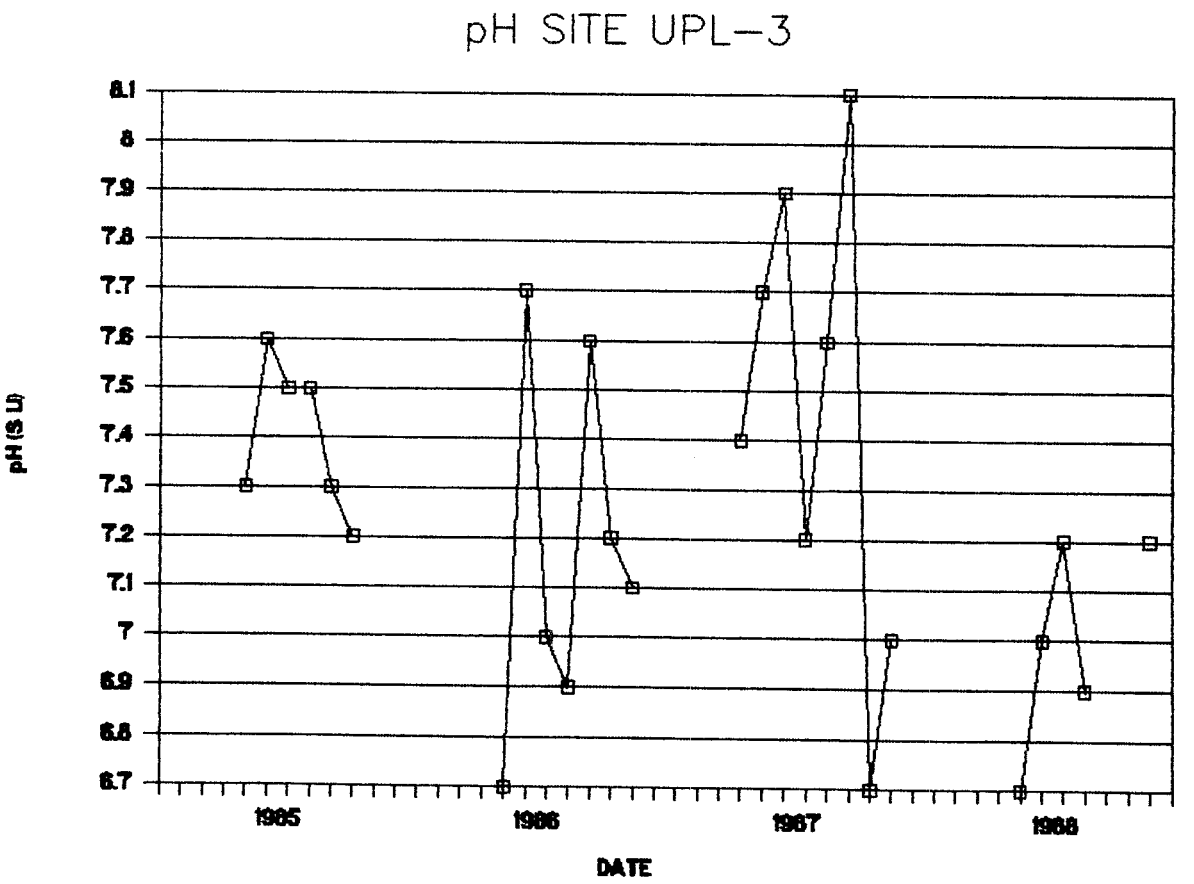

pH - SITE CS-14
(QUARTERLY MONITORING FORMAT)
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
pH (SU)
1989
1990
1991
1992
DATE

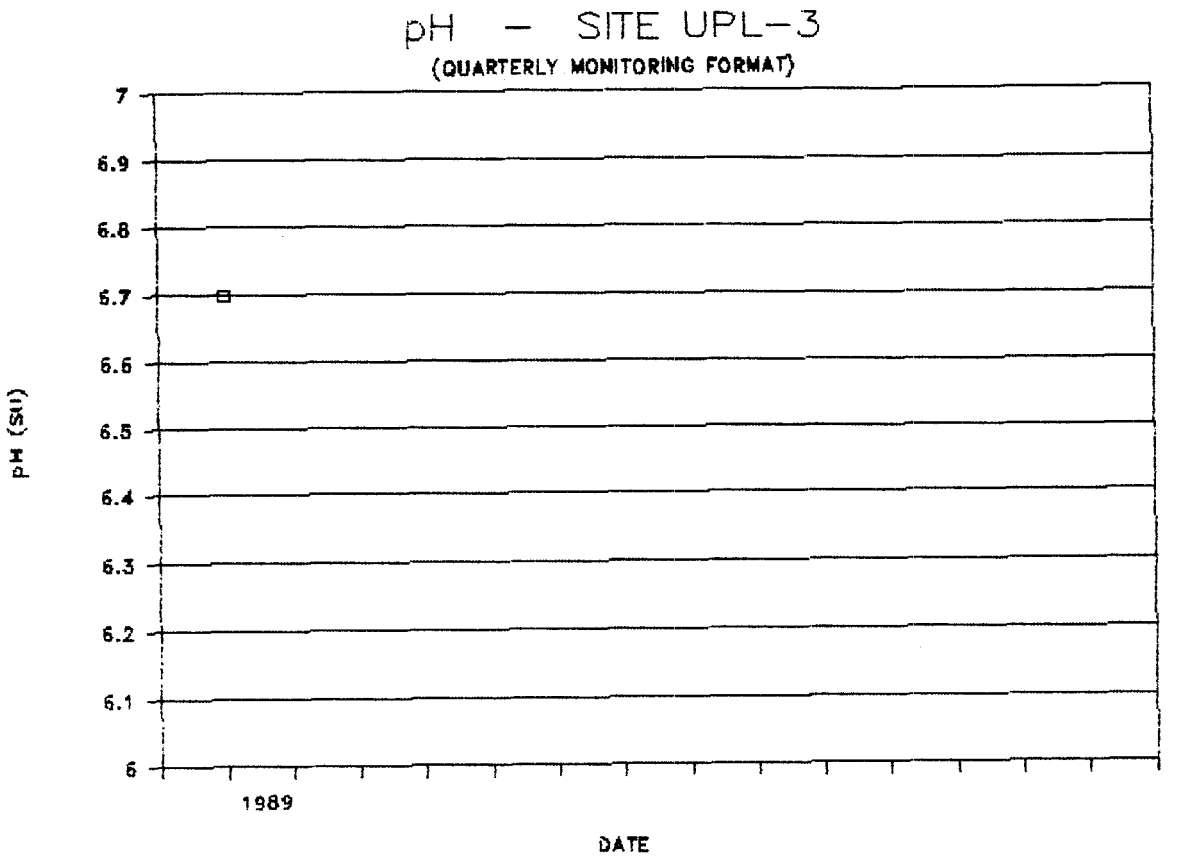

SOLIDS - SITE CS-14
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
(Thousands)
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


IRON/MANGANESE - SITE CS-14
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
8
7
6
5
4
3
2
1
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

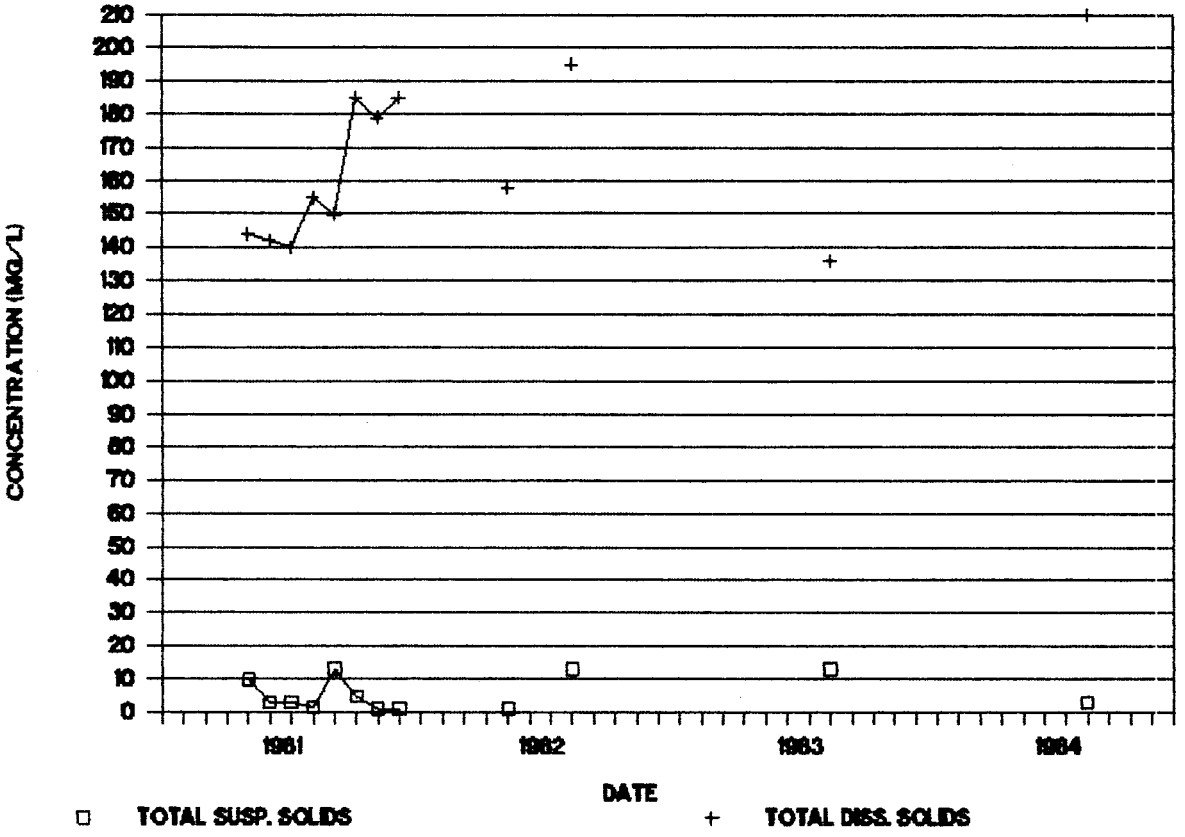

FLOW - SITE CS-15
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
FLOW (CFS)
1988
1989
1990
DATE


pH SITE UPL-3
pH (S U)
8.6
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
1981
1982
1983
1984
DATE

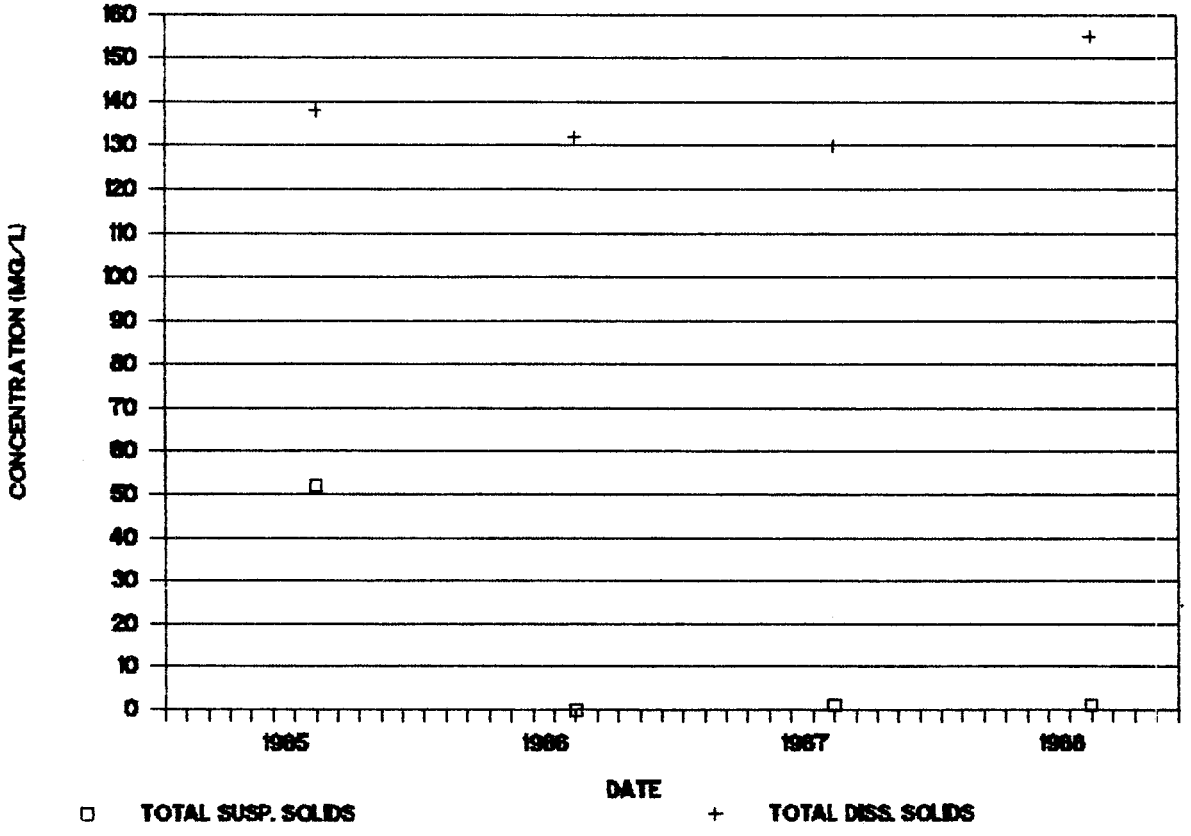

pH SITE UPL-3
pH (S U)
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
1985
1986
1987
1988
DATE


pH - SITE UPL-3
(QUARTERLY MONITORING FORMAT)
7
6.9
6.8
6.7
6.6
6.5
6.4
6.3
6.2
6.1
6
pH (SU)
1989
DATE

SOLIDS – SITE UPL-3

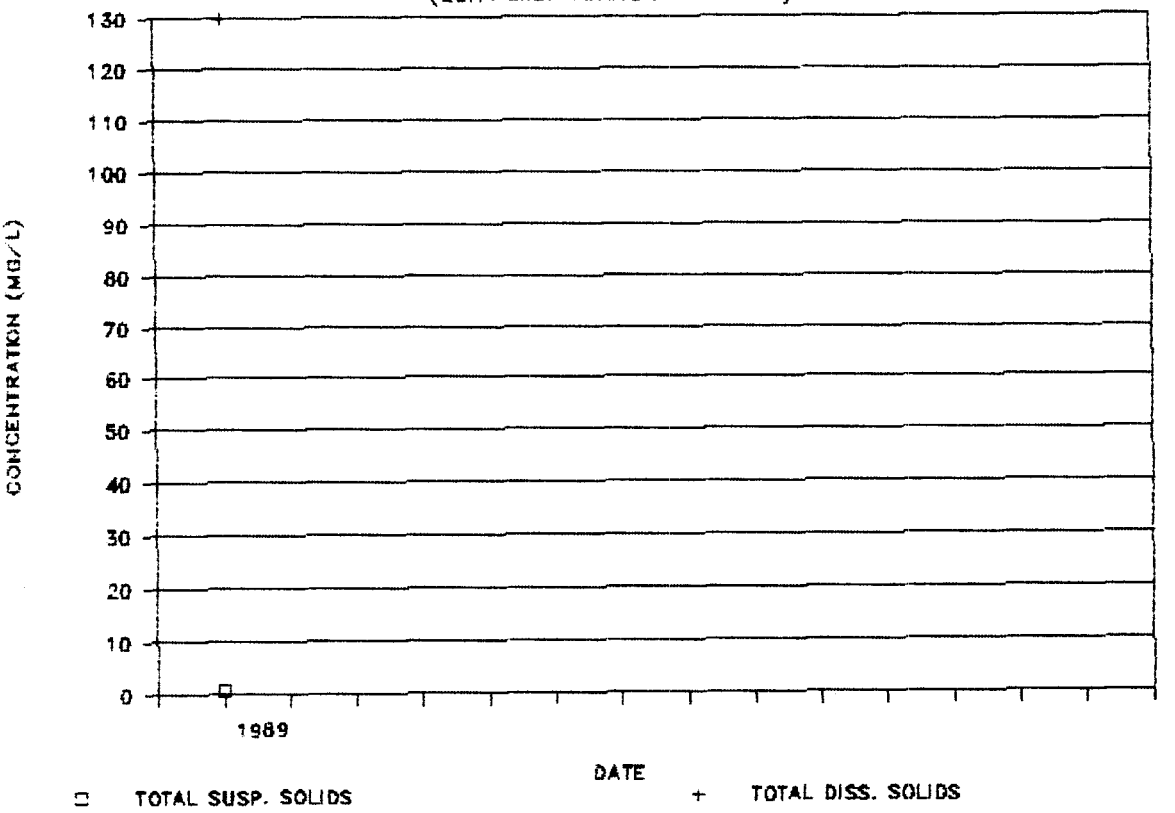


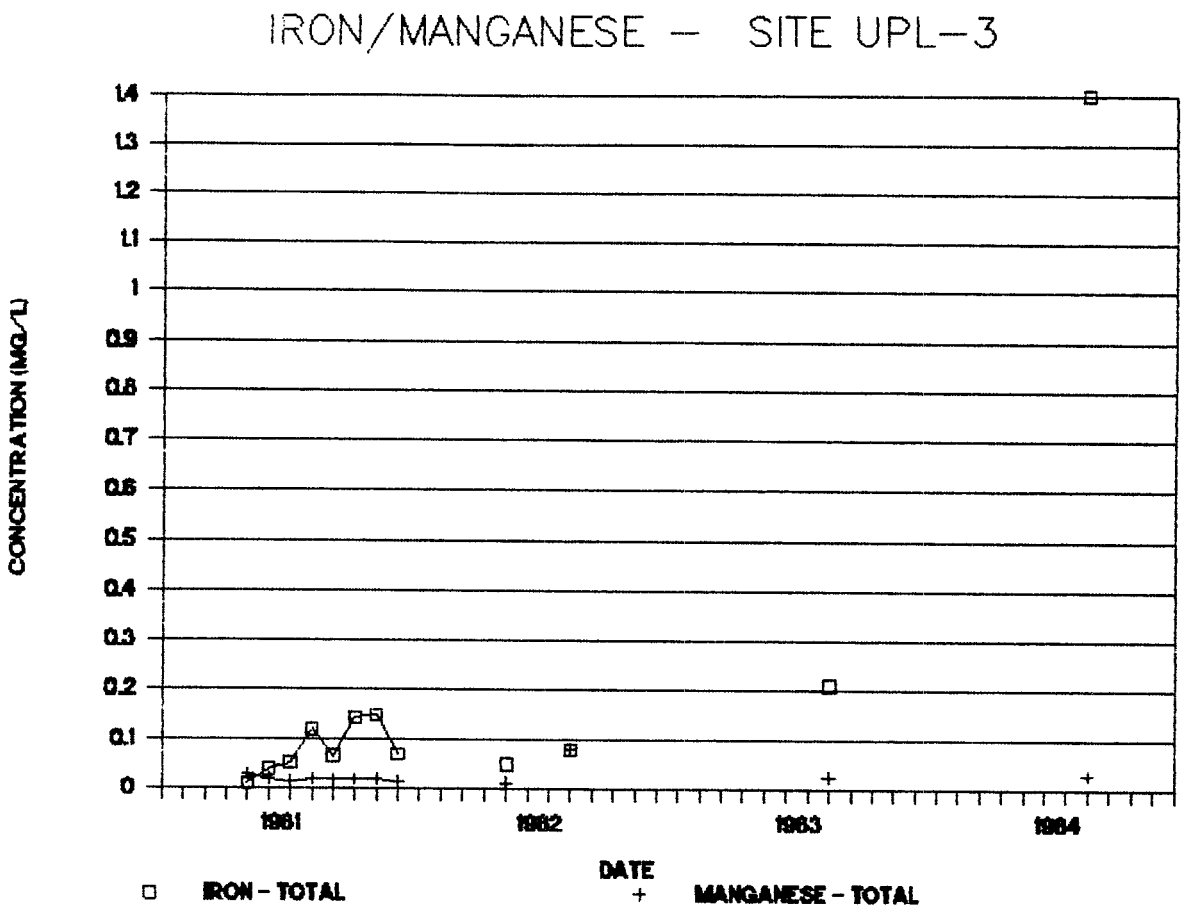
SOLIDS – SITE UPL-3

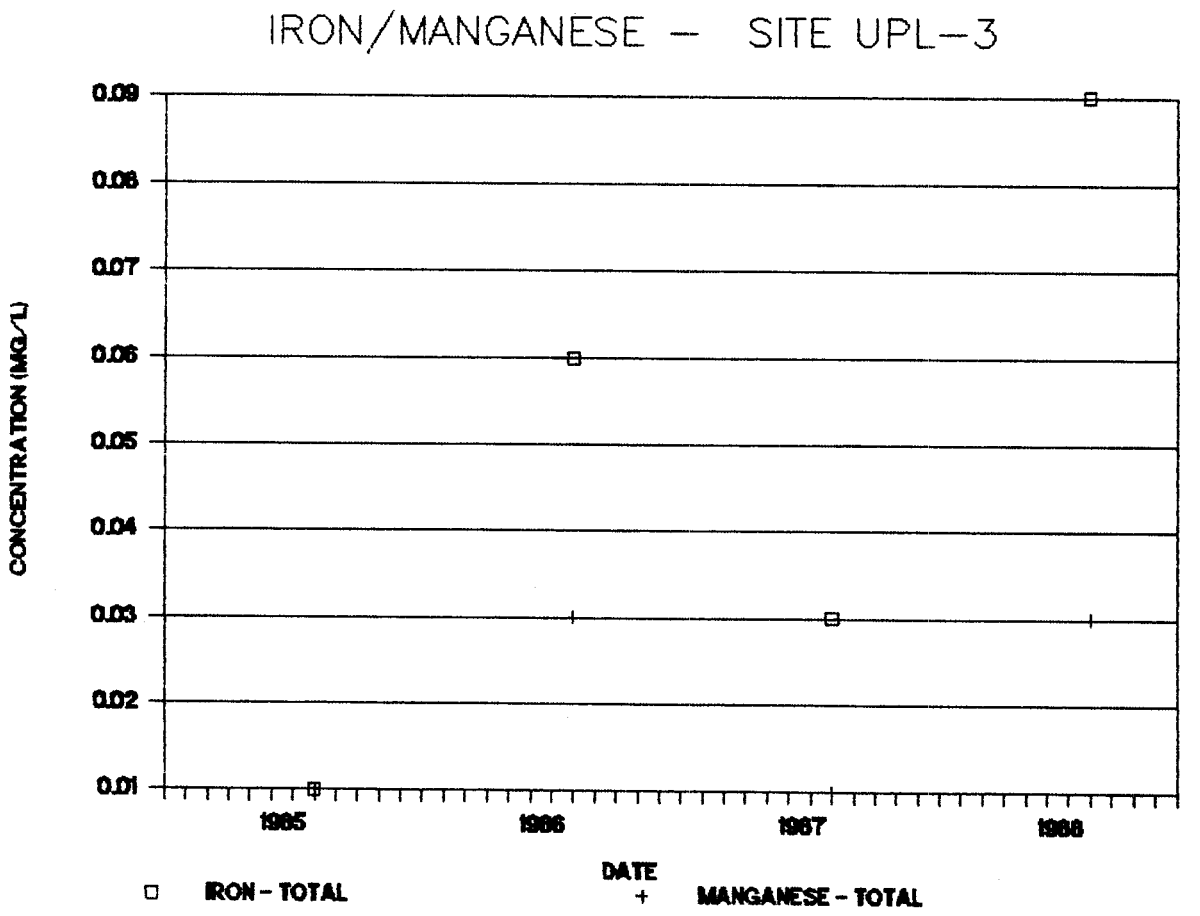


SOLIDS - SITE UPL-3

(QUARTERLY MONITORING FORMAT)

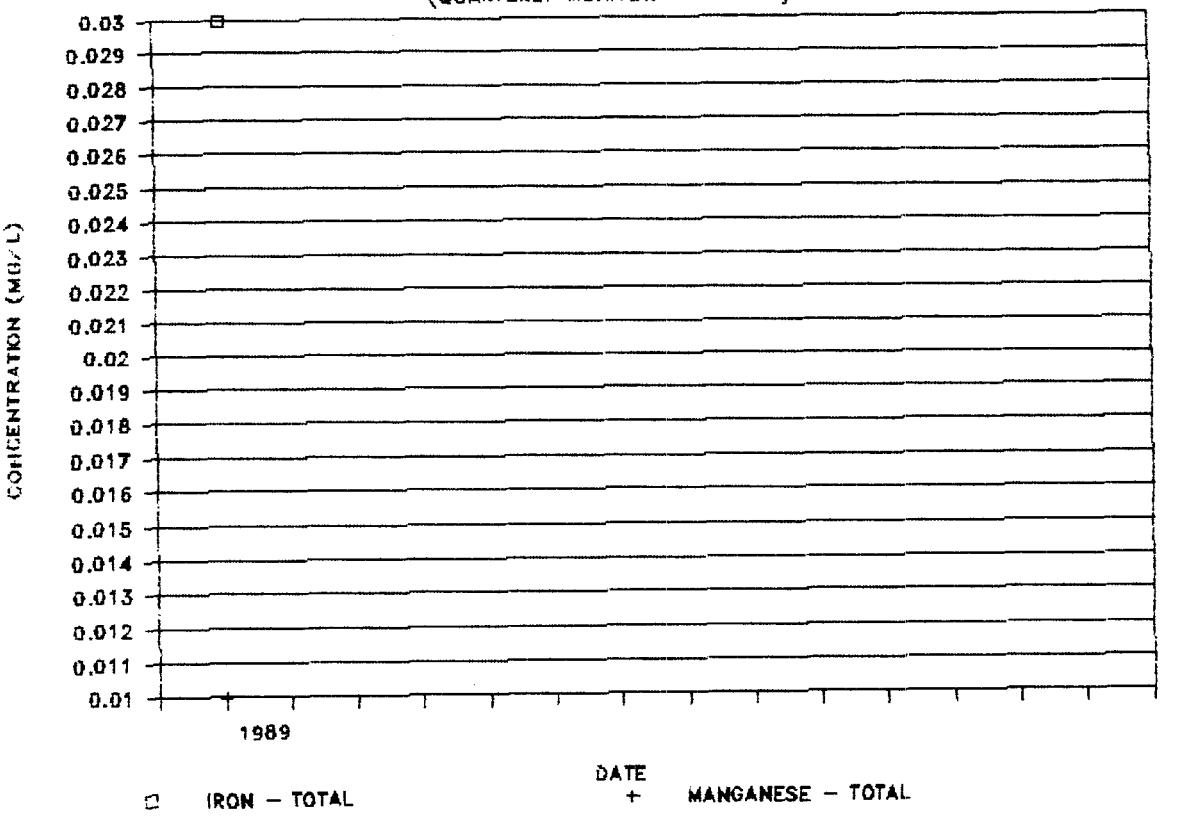


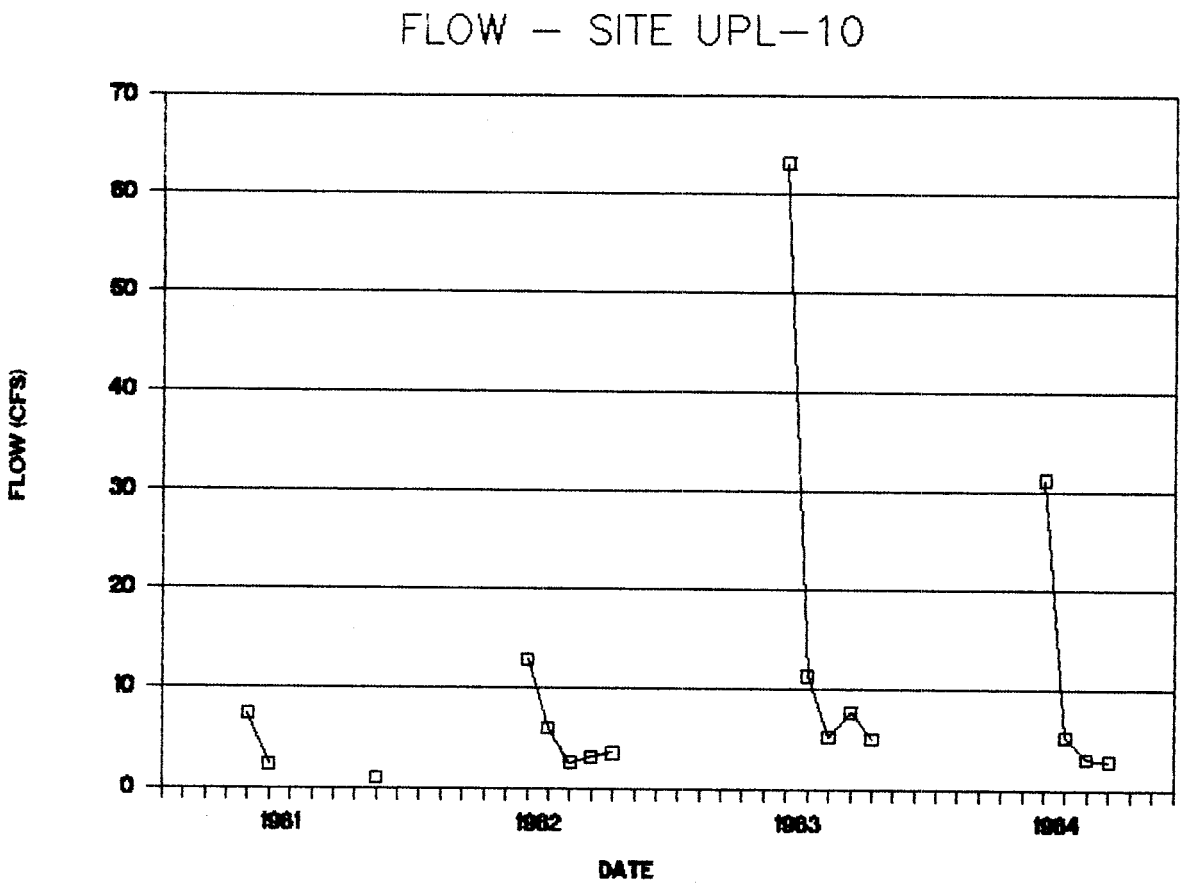

IRON/MANGANESE – SITE UPL-3
CONCENTRATION (MG/L)
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1981
1982
1983
1984
DATE
IRON - TOTAL
MANGANESE - TOTAL

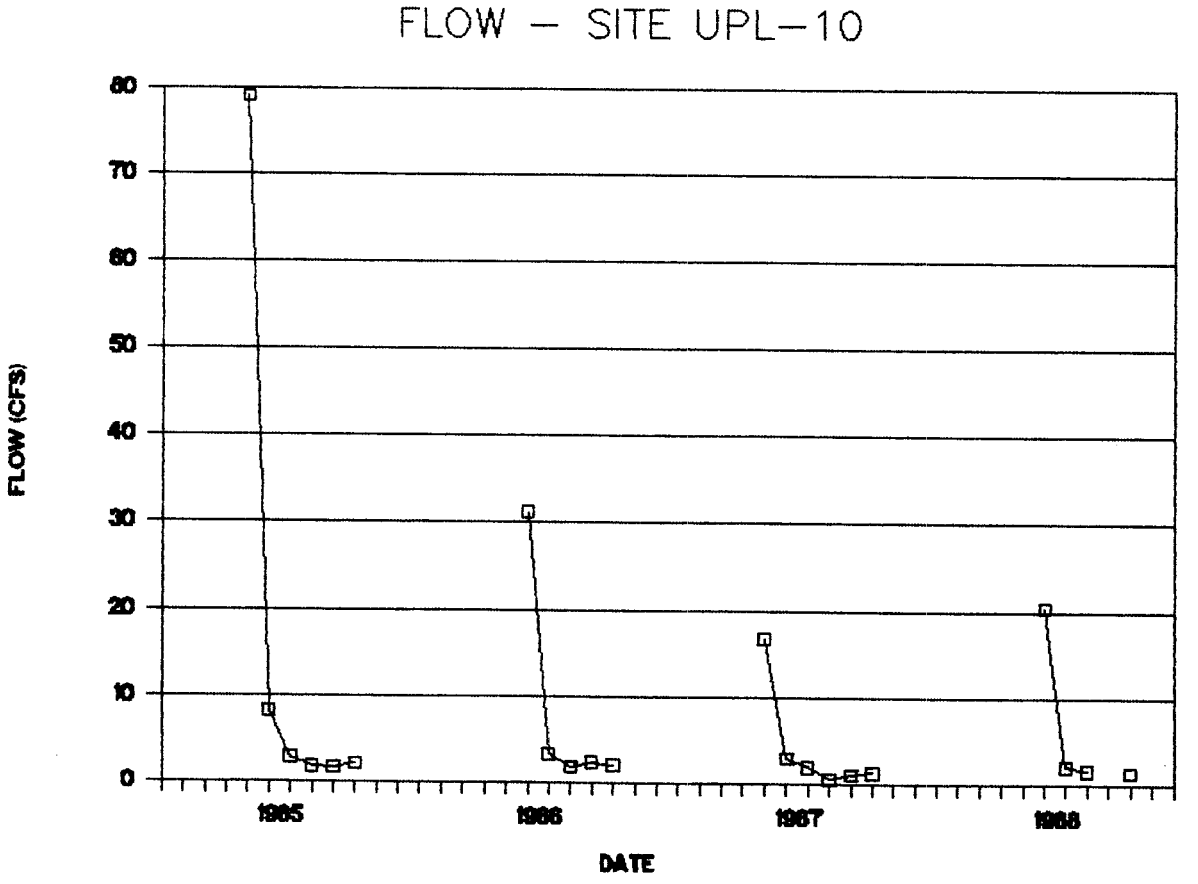

IRON/MANGANESE – SITE UPL-3
CONCENTRATION (MG/L)
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
1985
1986
1987
1988
DATE
IRON - TOTAL
MANGANESE - TOTAL

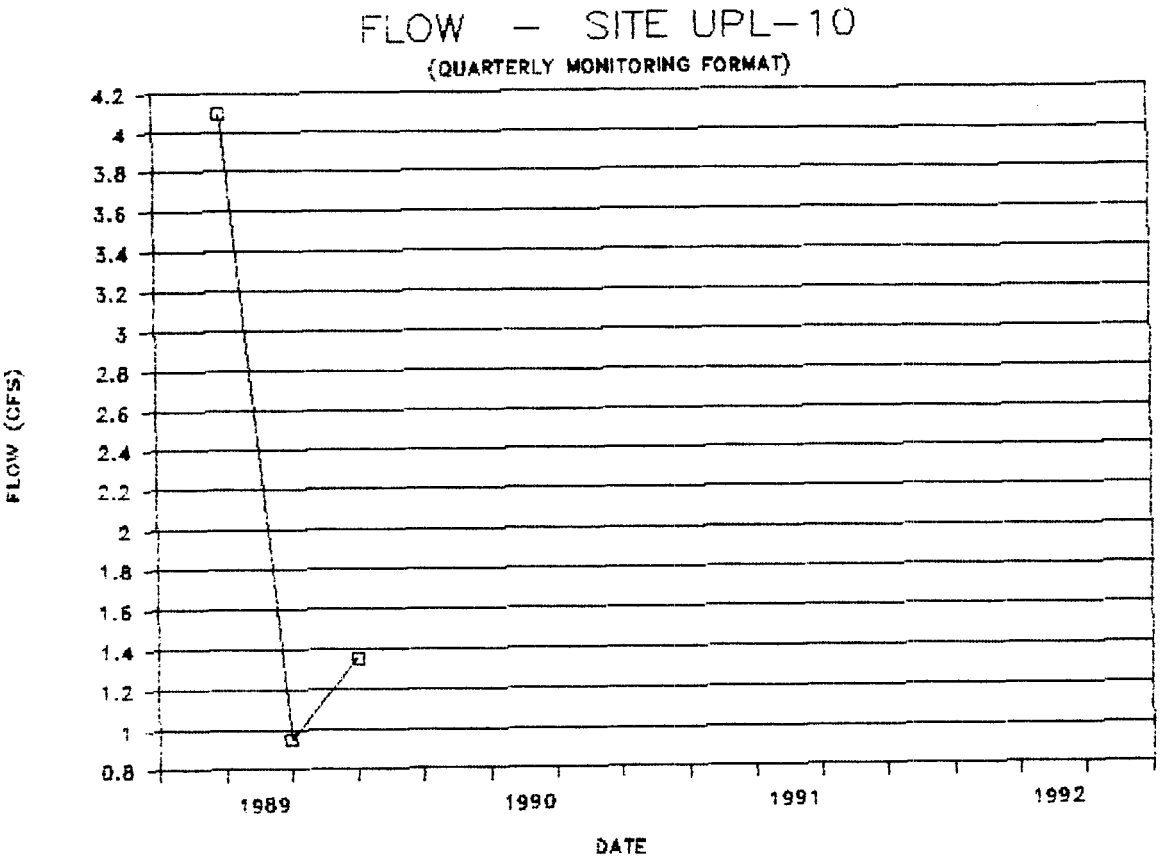
IRON/MANGANESE – SITE UPL-3

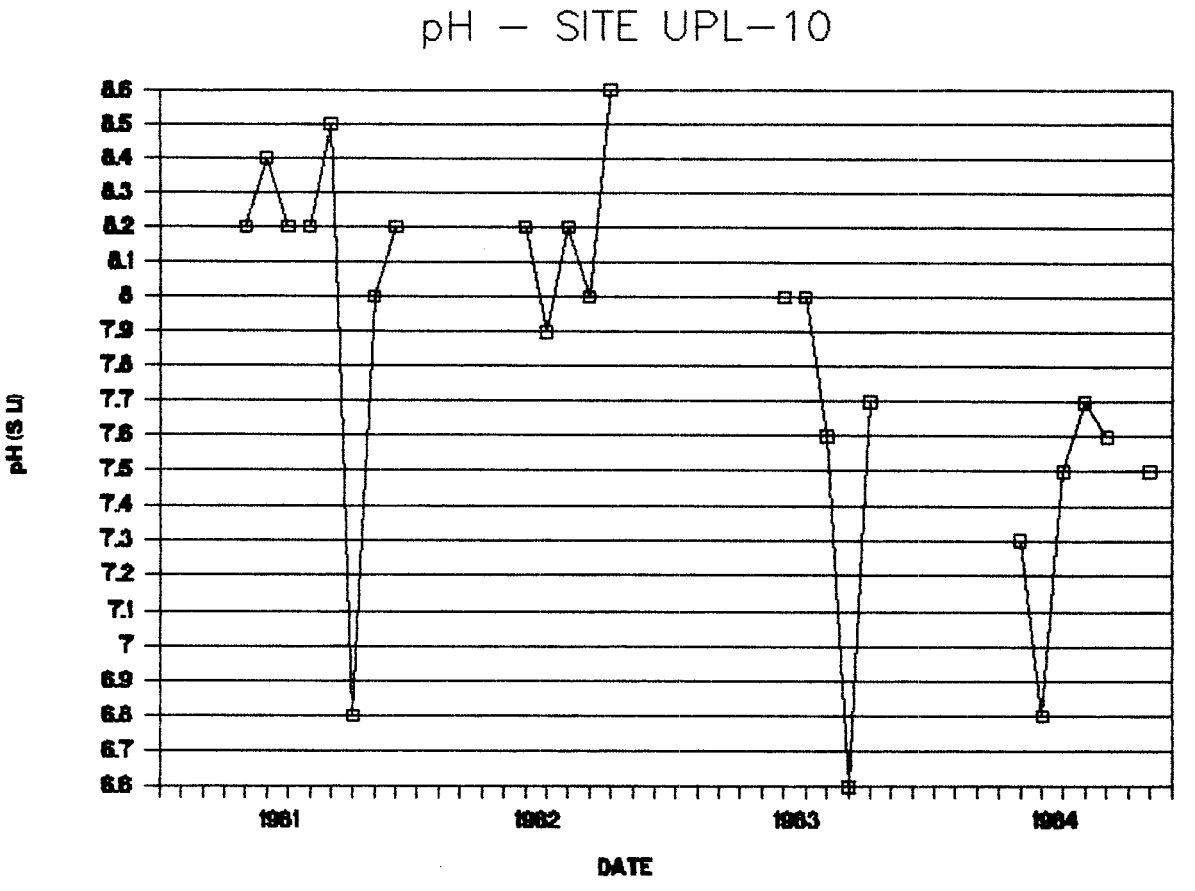
(QUARTERLY MONITORING FORMAT)

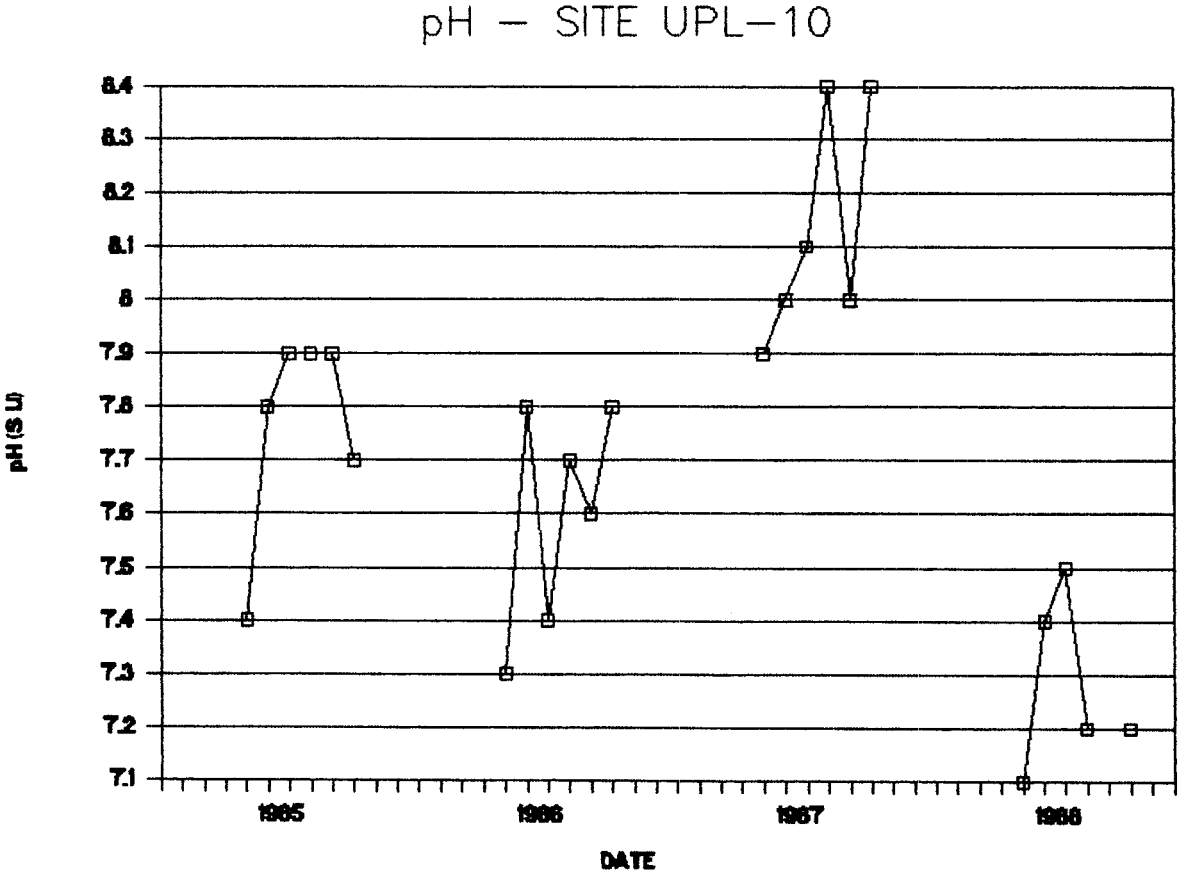


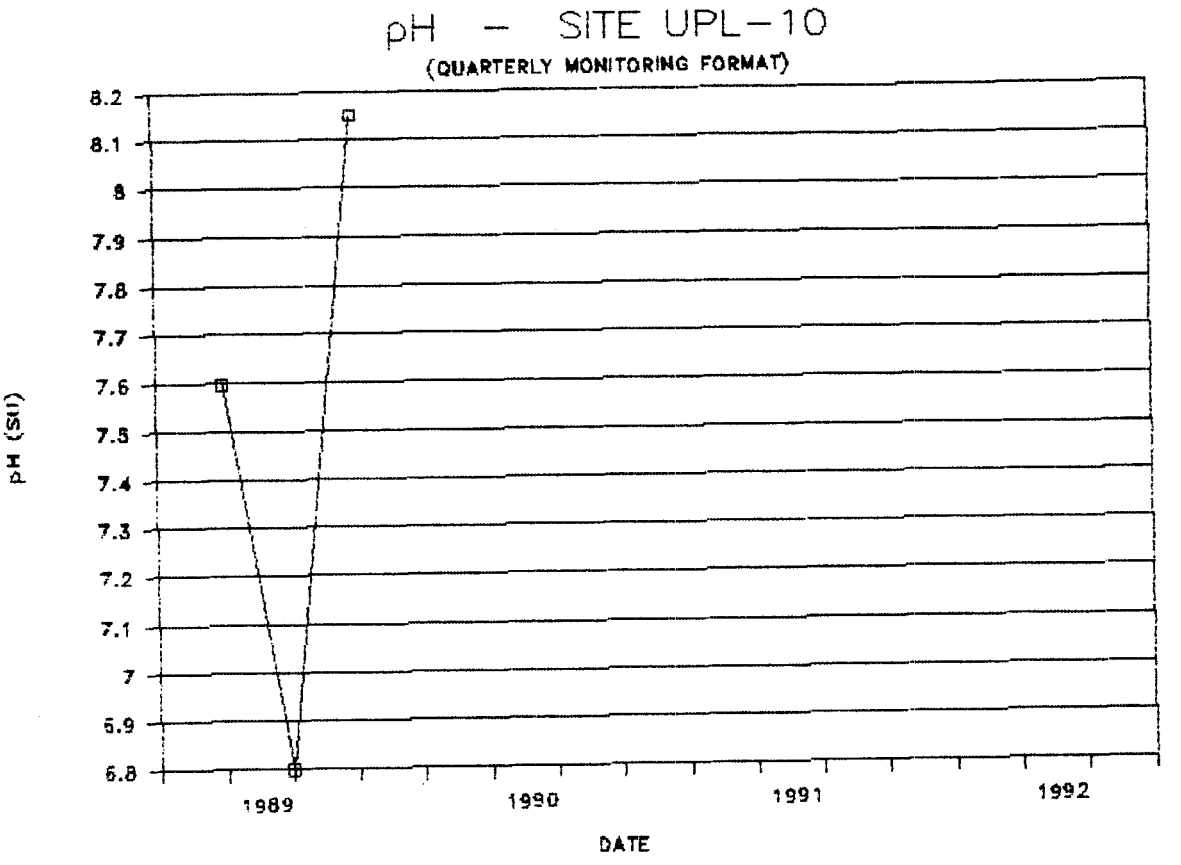

FLOW – SITE UPL–10
FLOW (CFS)
70
60
50
40
30
20
10
0
1981
1982
1983
1984
DATE

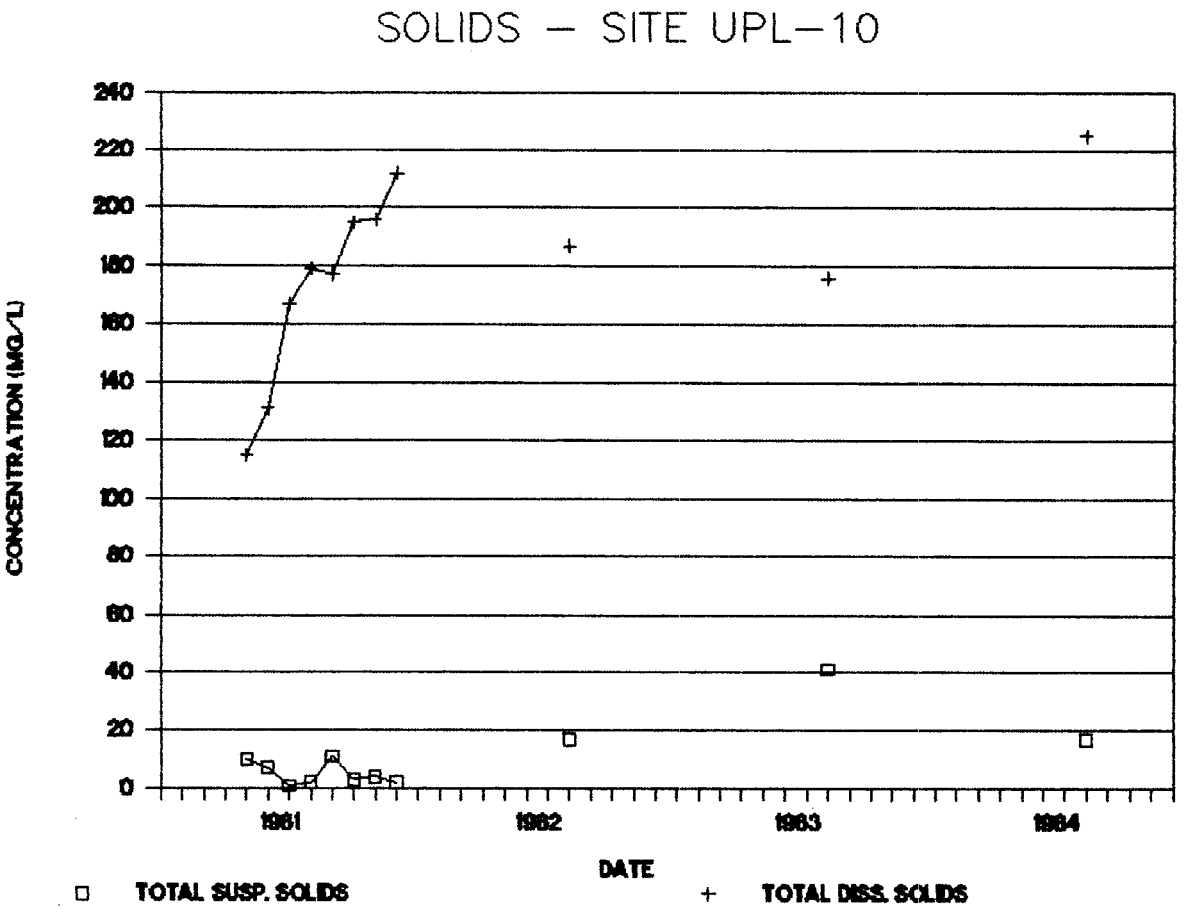

FLOW – SITE UPL–10
FLOW (CFS)
80
70
60
50
40
30
20
10
0
1985
1986
1987
1988
DATE

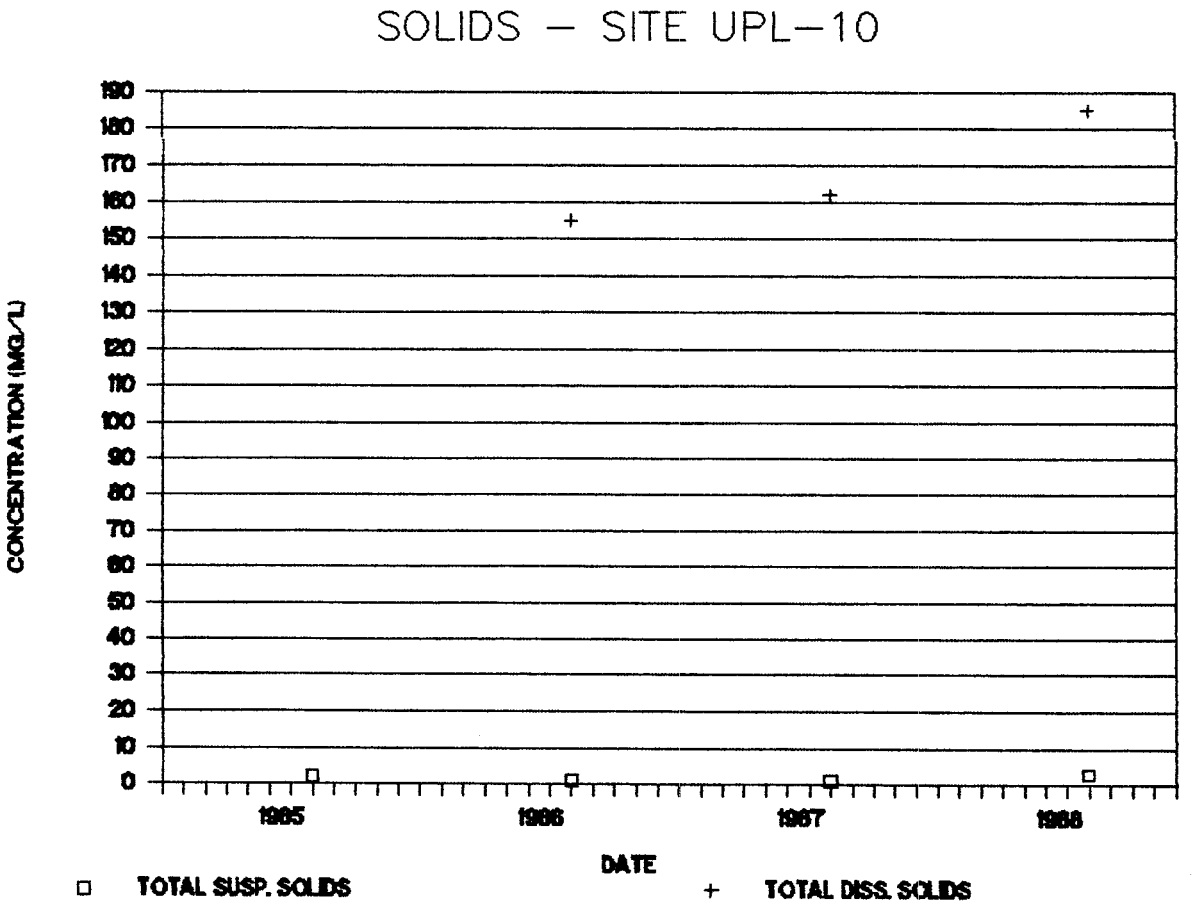

FLOW - SITE UPL-10
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
4.2
4
3.8
3.6
3.4
3.2
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
1989
1990
1991
1992
DATE

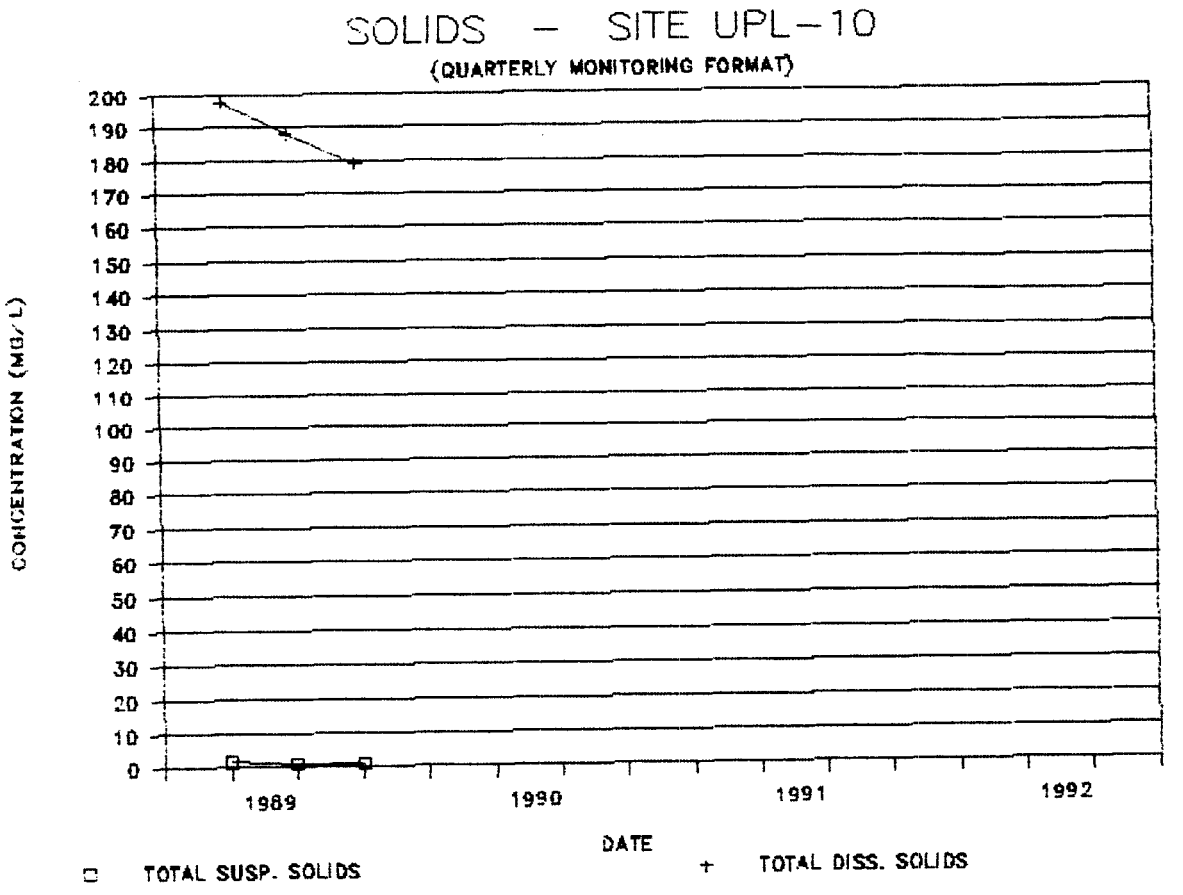

pH – SITE UPL–10
pH (S.U.)
8.6
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
1981
1982
1983
1984
DATE

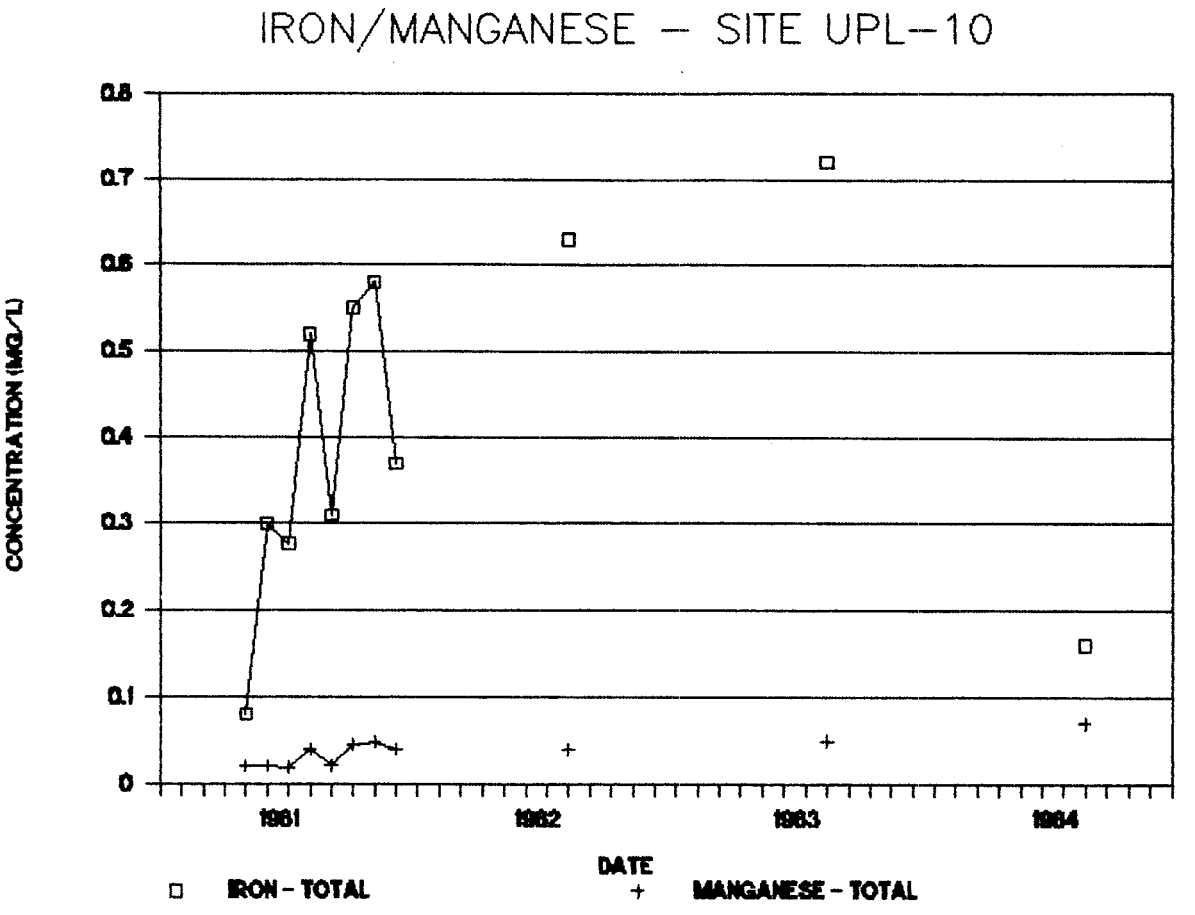

pH – SITE UPL–10
pH (S.U.)
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
1985
1986
1987
1988
DATE

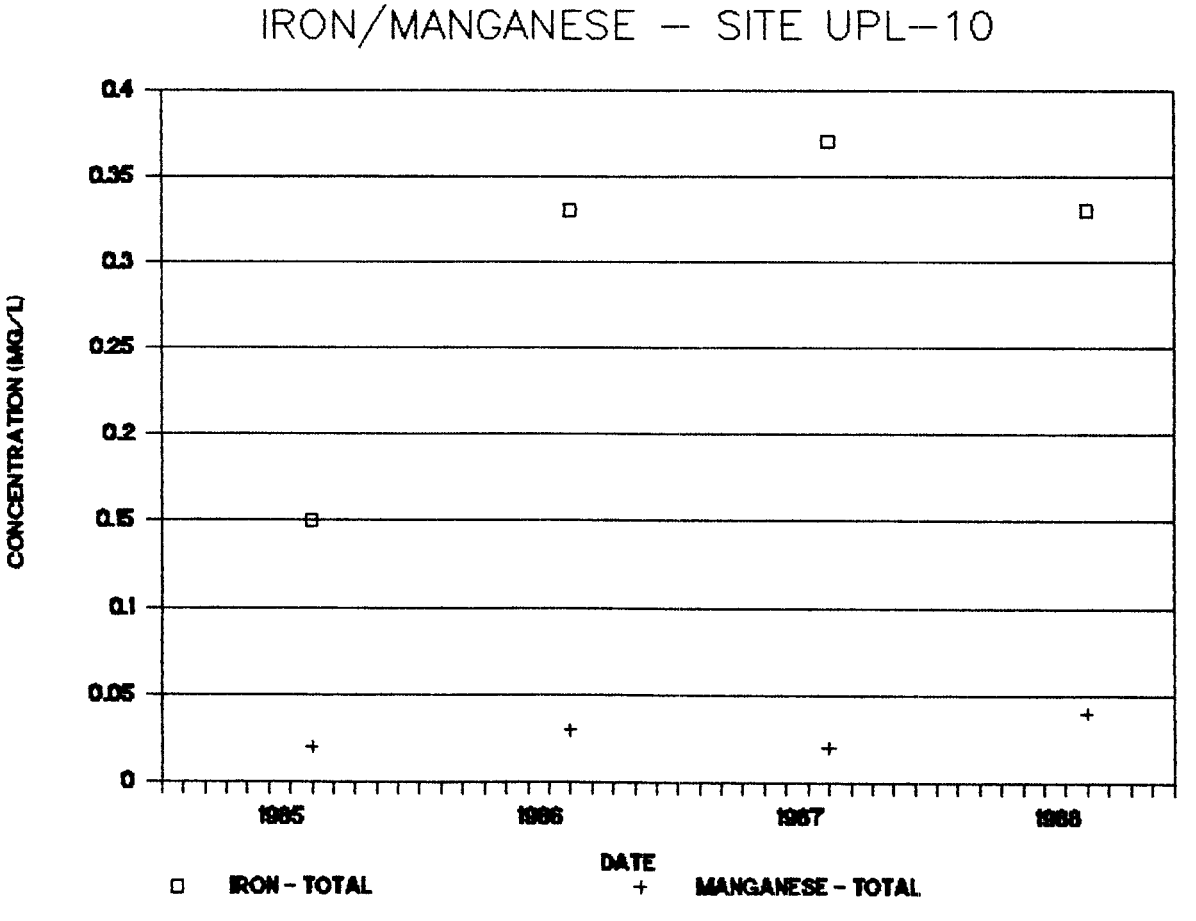

pH - SITE UPL-10
(QUARTERLY MONITORING FORMAT)
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
pH (SU)
1989
1990
1991
1992
DATE

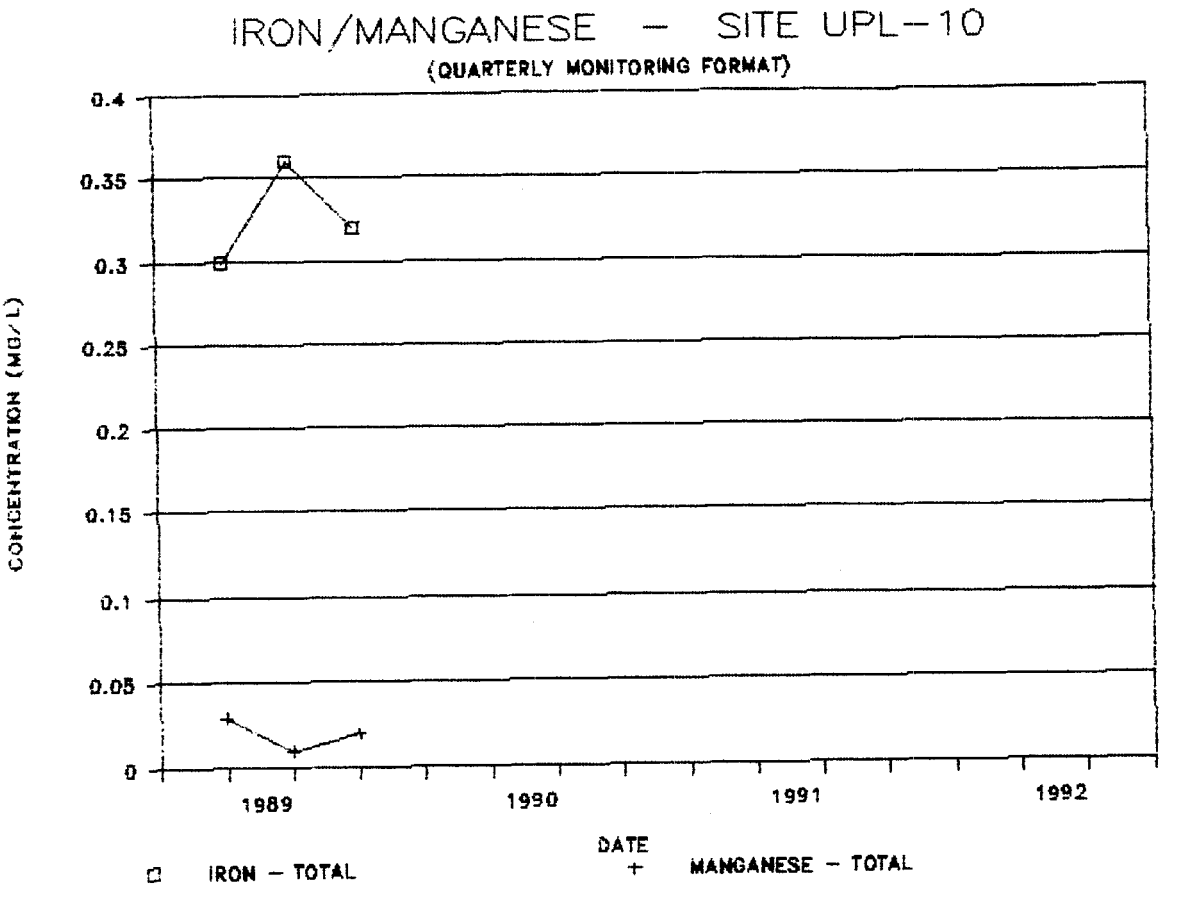

SOLIDS – SITE UPL–10
CONCENTRATION (MG/L)
240
220
200
180
160
140
120
100
80
60
40
20
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

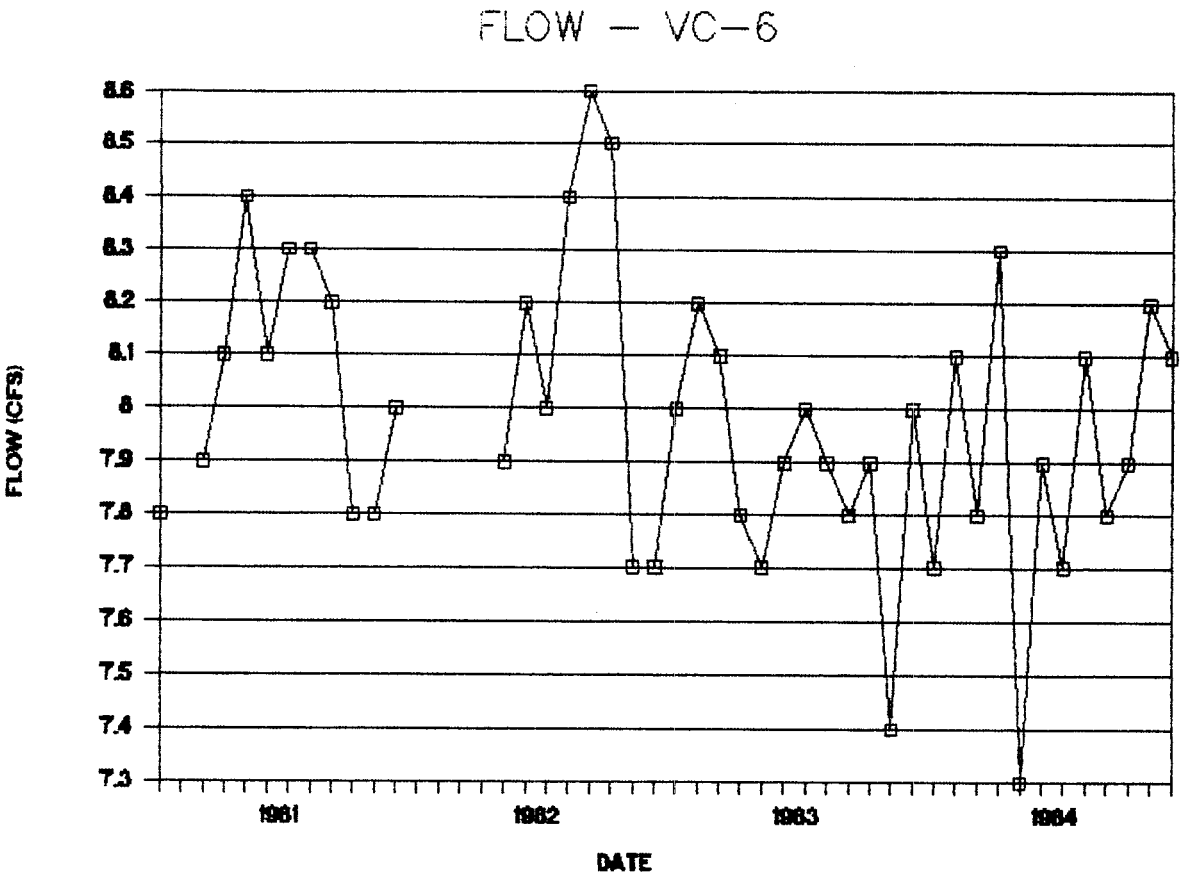

SOLIDS – SITE UPL–10
CONCENTRATION (MG/L)
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

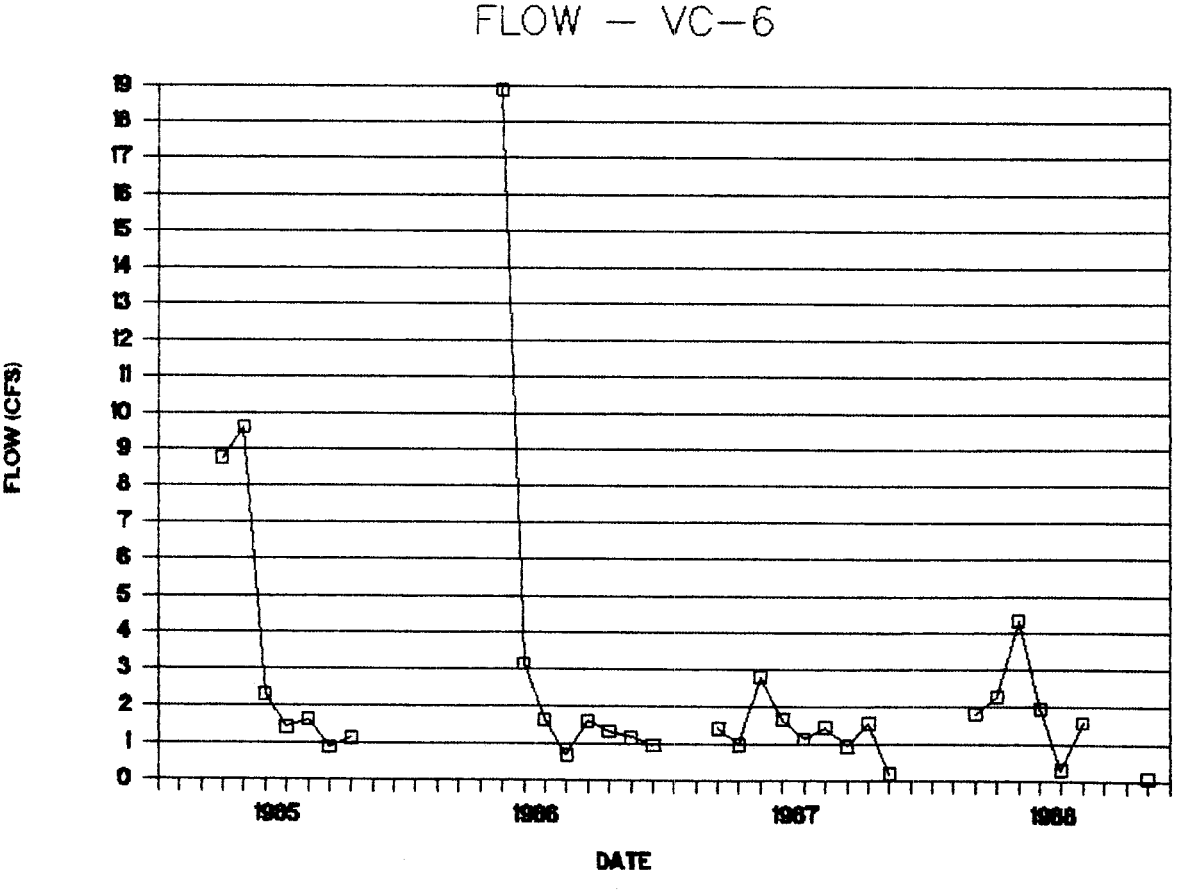

SOLIDS - SITE UPL-10
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

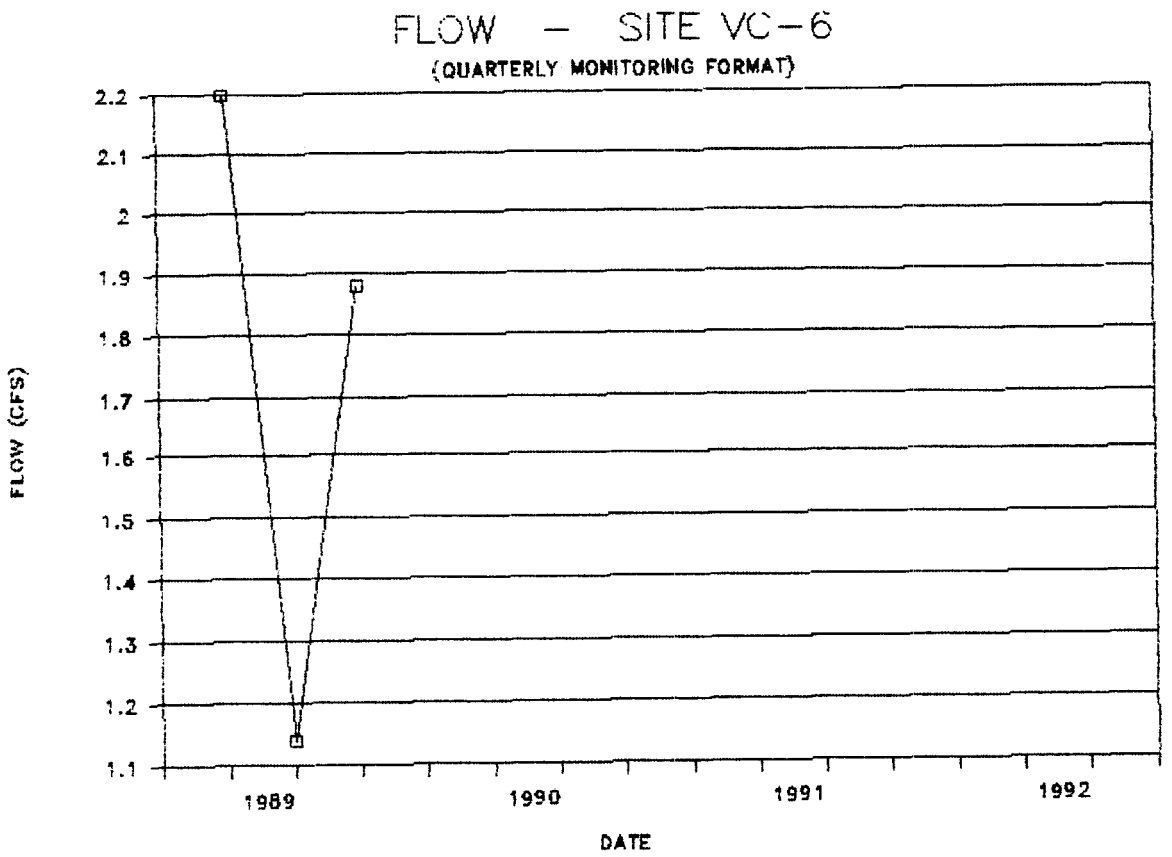

IRON/MANGANESE – SITE UPL–10
CONCENTRATION (MG/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1981
1982
1983
1984
DATE
IRON - TOTAL
MANGANESE - TOTAL

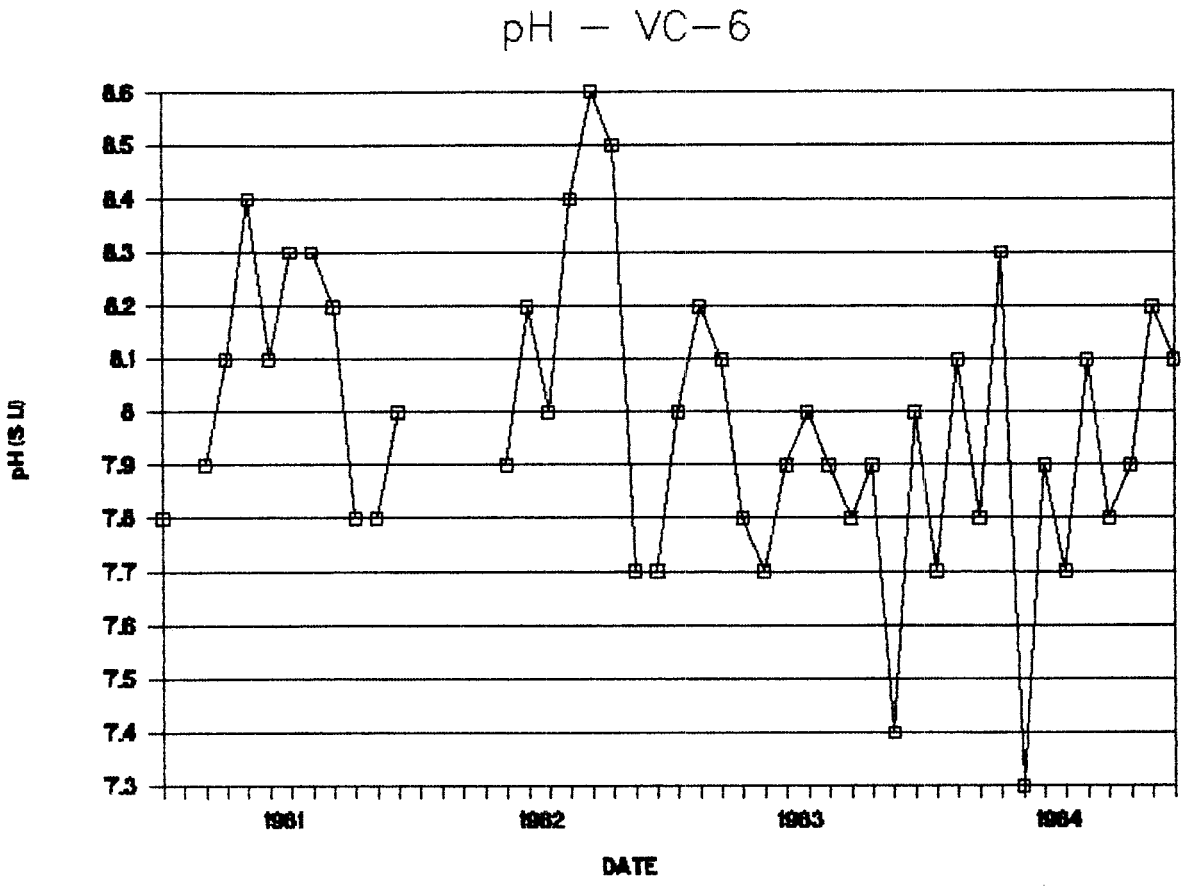

IRON/MANGANESE – SITE UPL–10
CONCENTRATION (MG/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1985
1986
1987
1988
DATE
IRON - TOTAL
MANGANESE - TOTAL

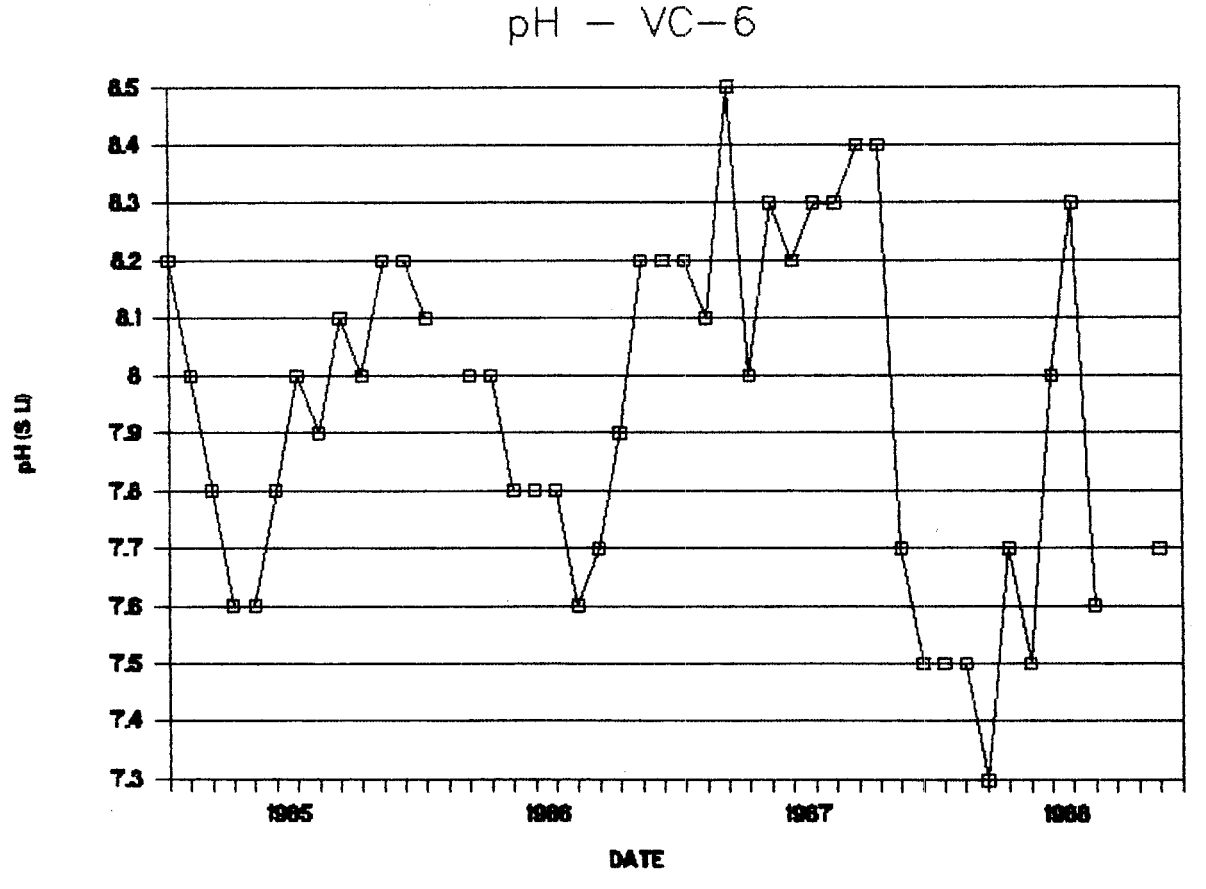

IRON/MANGANESE - SITE UPL-10
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

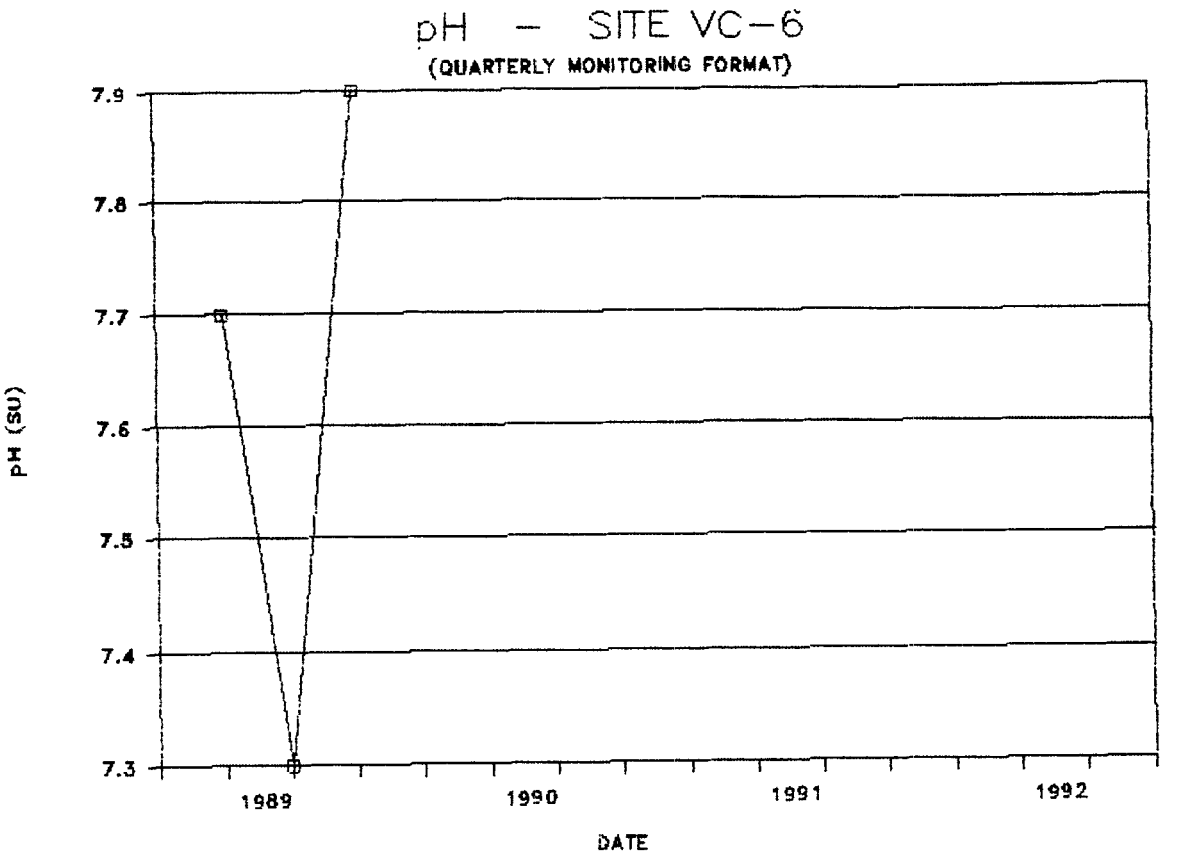

FLOW — VC-6
FLOW (CFS)
8.6
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
1981
1982
1983
1984
DATE

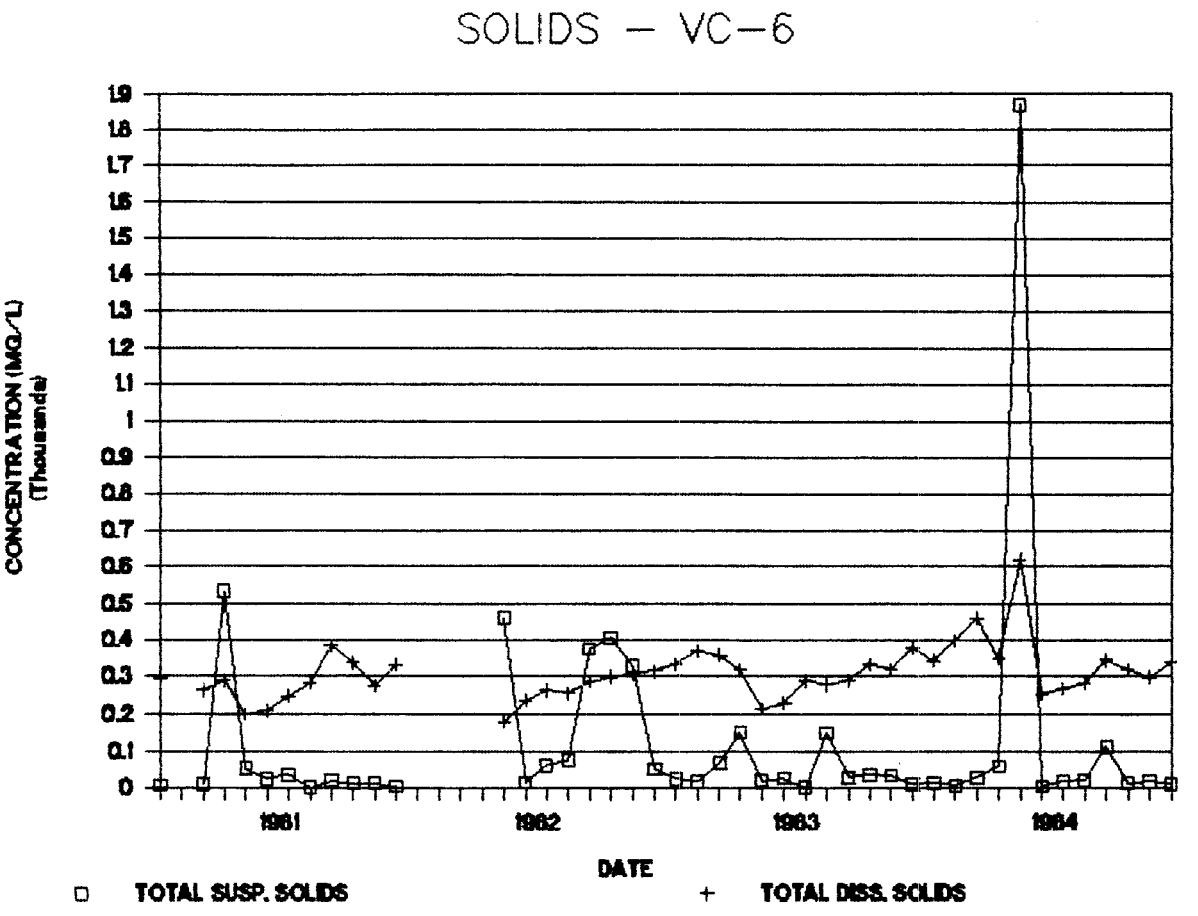

FLOW — VC-6
FLOW (CFS)
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
1985
1986
1987
1988
DATE

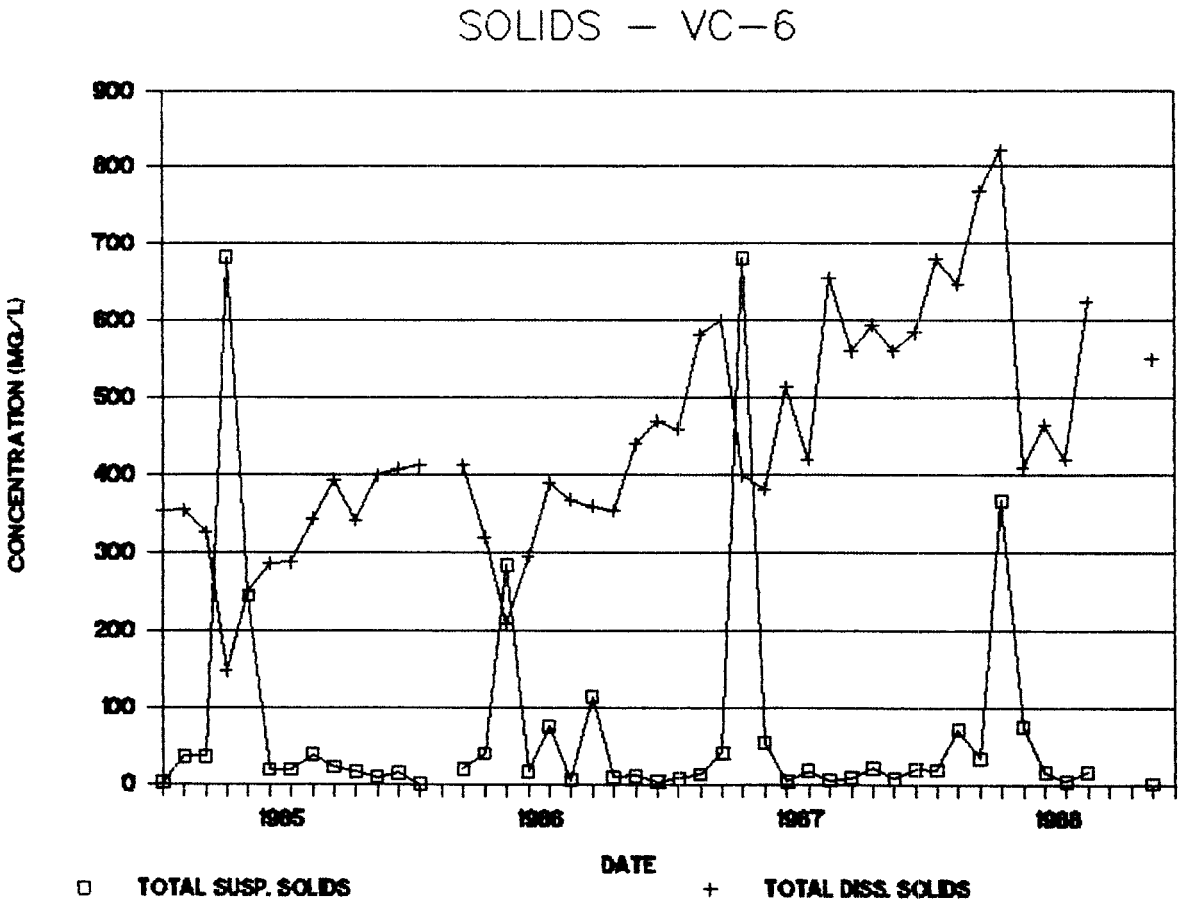

FLOW - SITE VC-6
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
2.2
2.1
2
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1989
1990
1991
1992
DATE

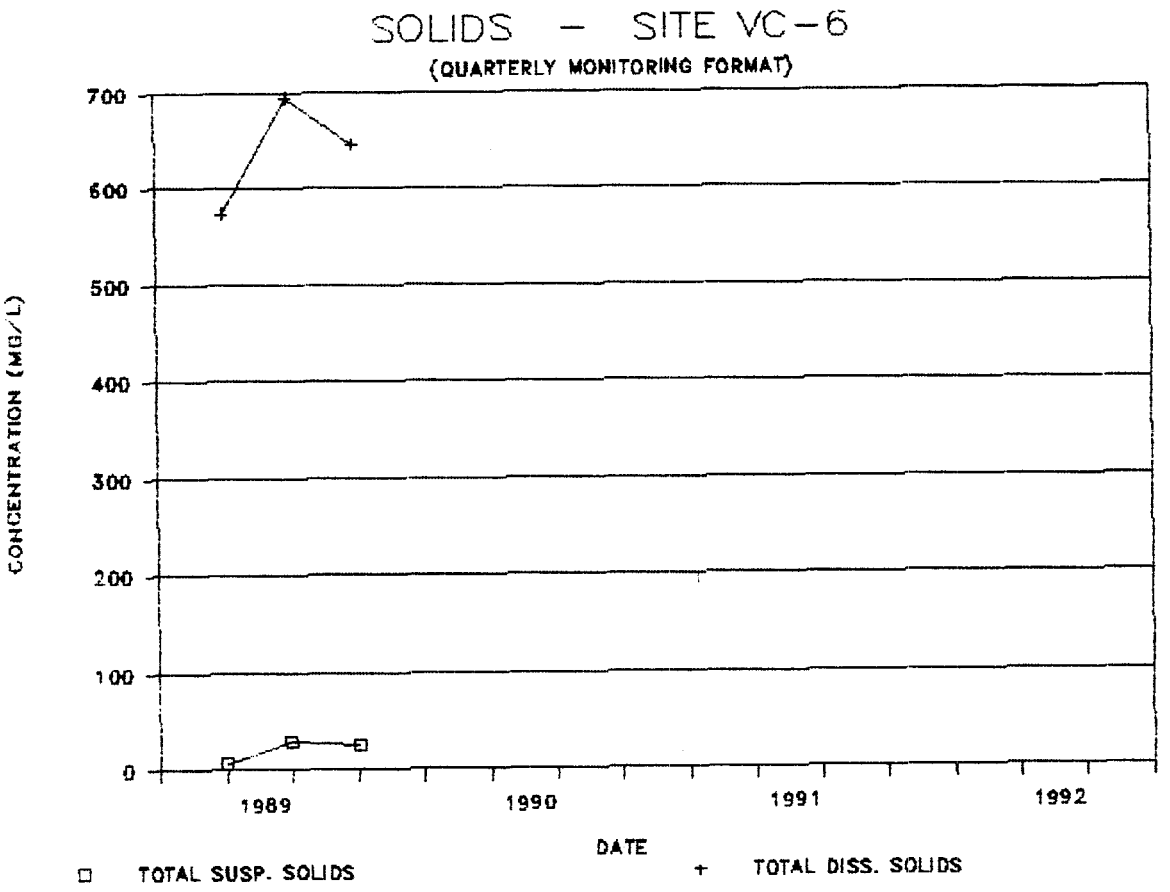

pH – VC–6
8.6
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
pH (S U)
1981
1982
1983
1984
DATE

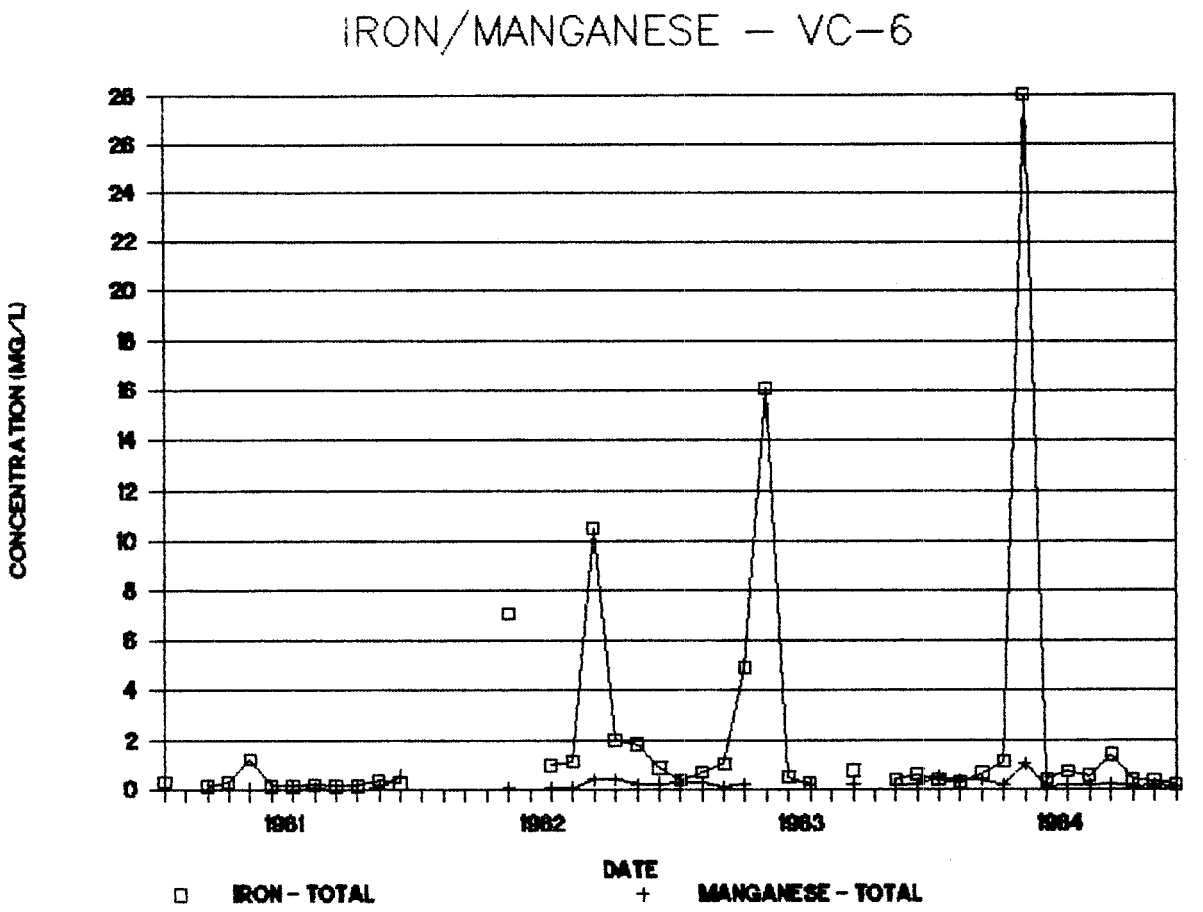

pH – VC–6
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
pH (S U)
1985
1986
1987
1988
DATE

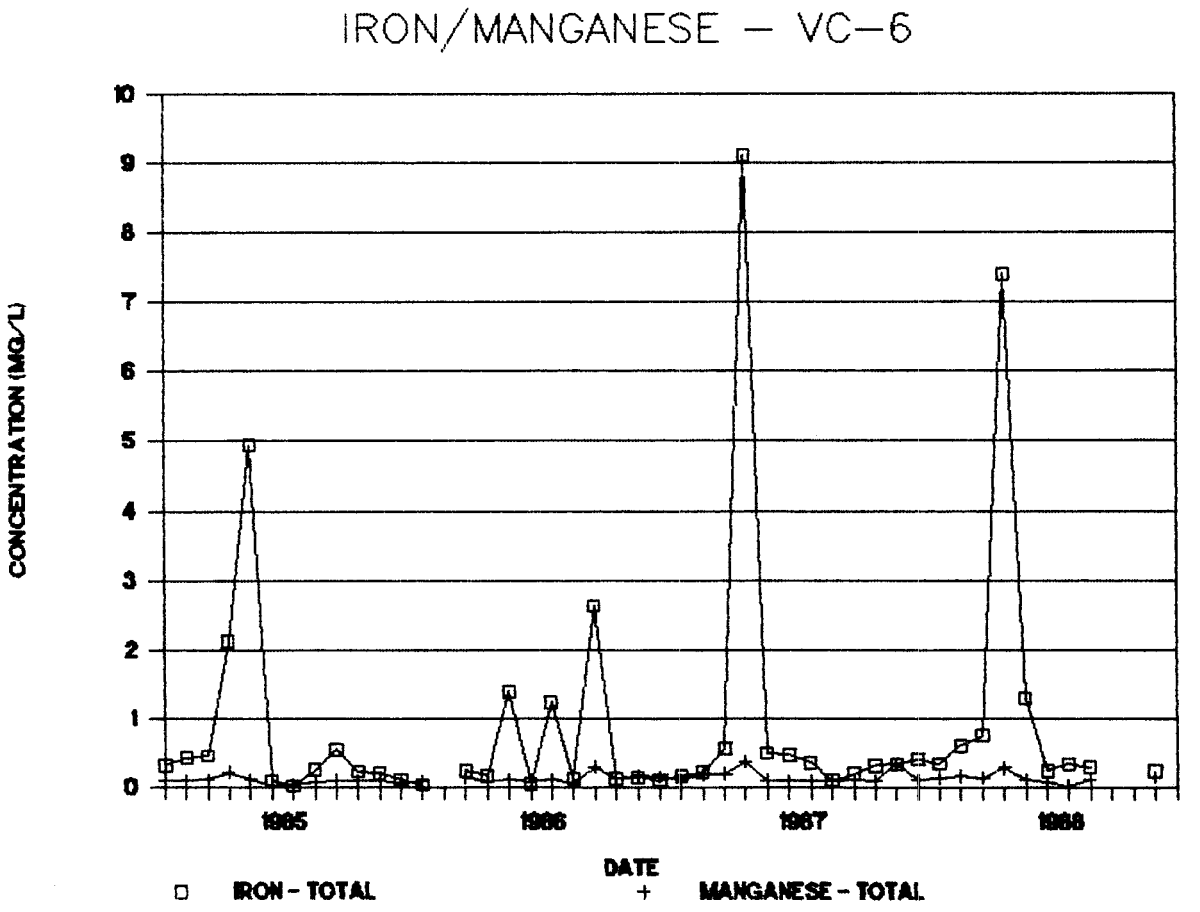

pH - SITE VC-6
(QUARTERLY MONITORING FORMAT)
7.9
7.8
7.7
7.6
7.5
7.4
7.3
pH (SU)
1989
1990
1991
1992
DATE

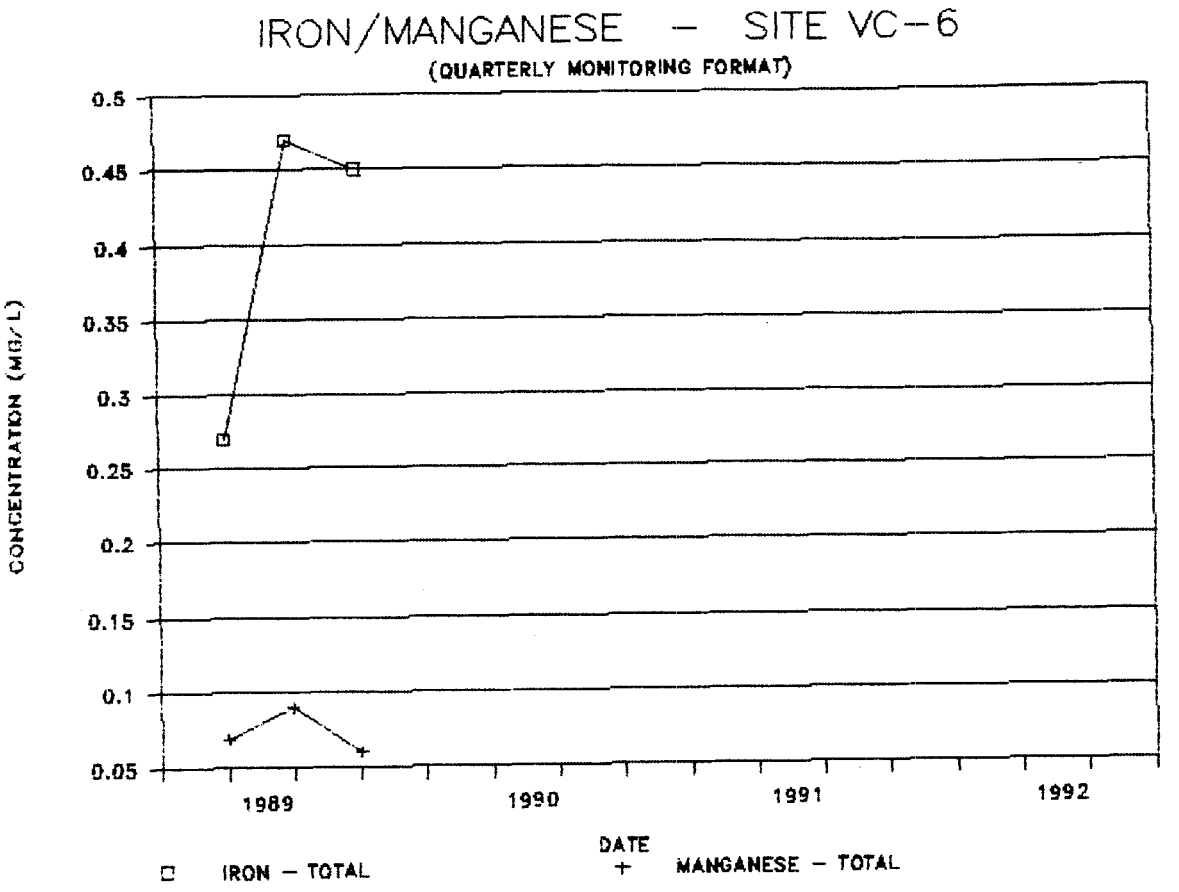

SOLIDS – VC–6
CONCENTRATION (MG/L)
(Thousands)
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

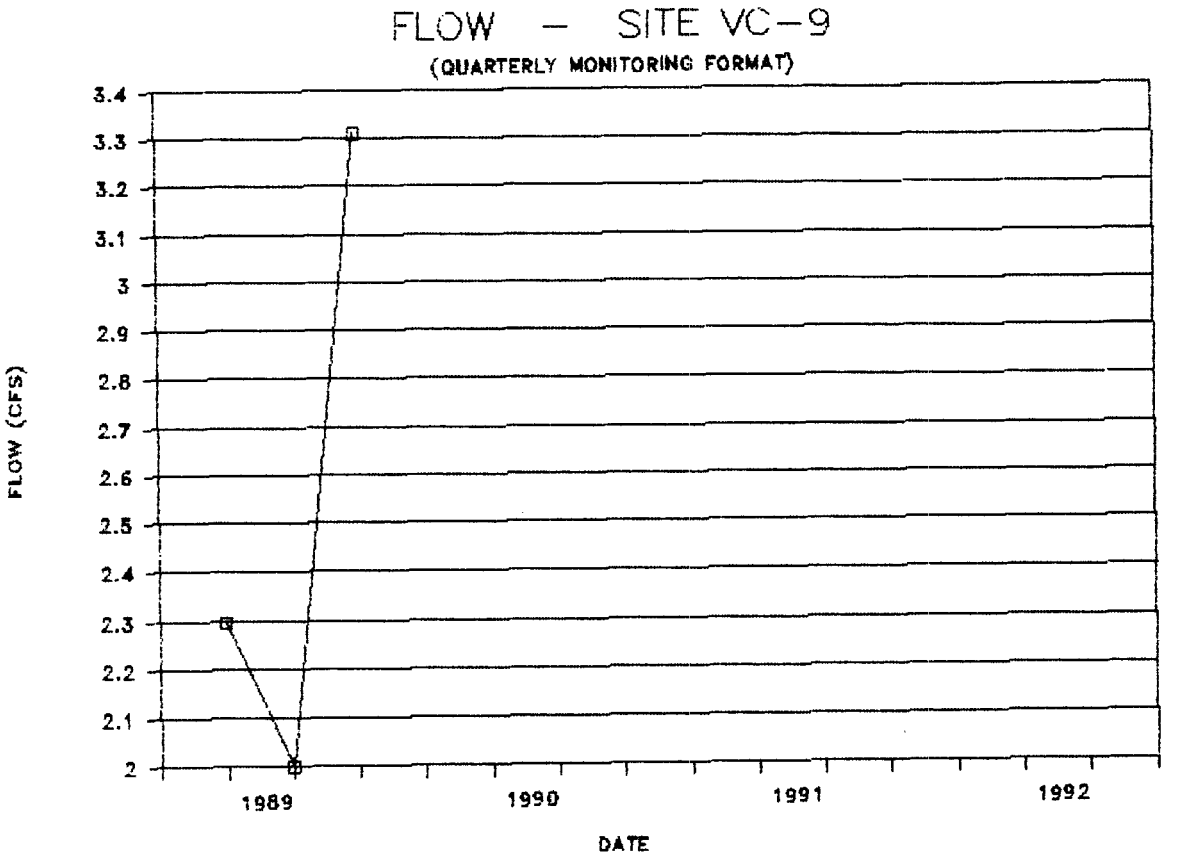

SOLIDS – VC–6
CONCENTRATION (MG/L)
900
800
700
600
500
400
300
200
100
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

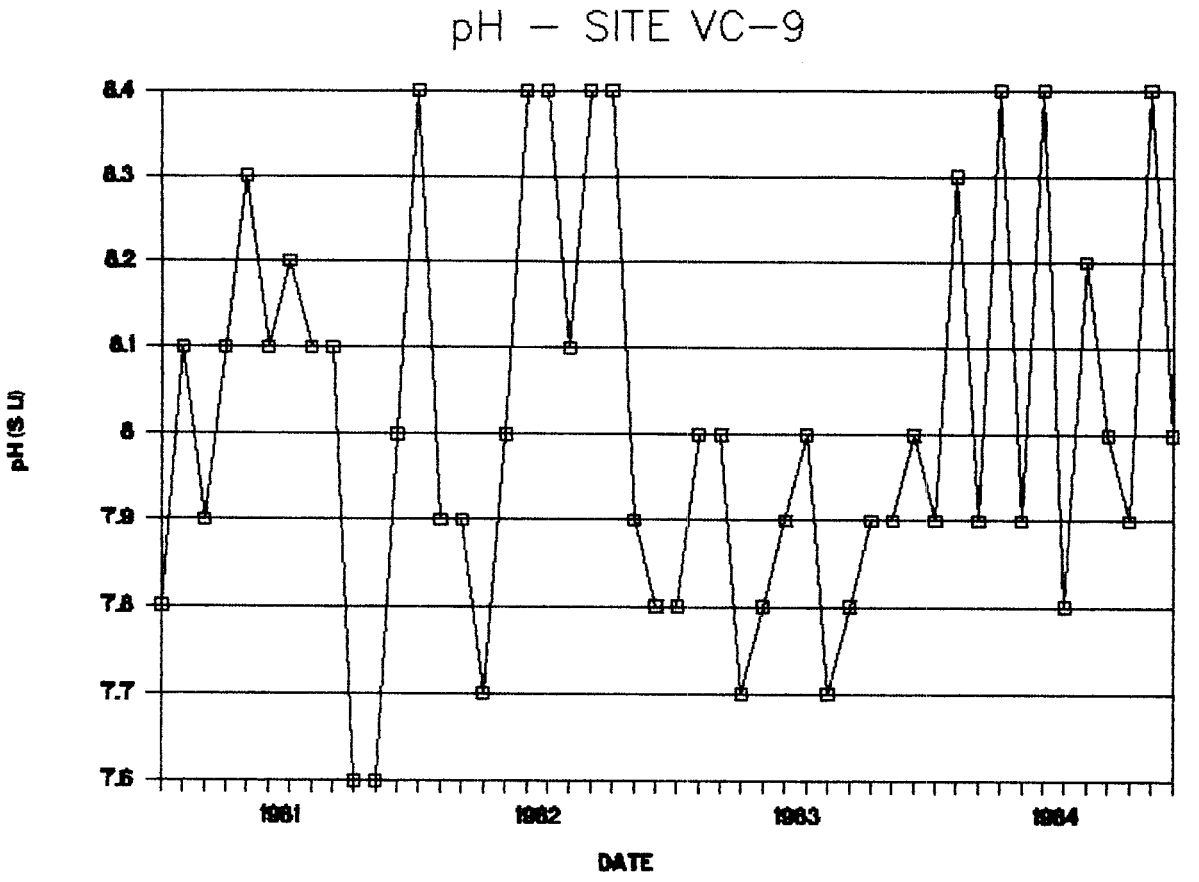

SOLIDS - SITE VC-6
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
700
600
500
400
300
200
100
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

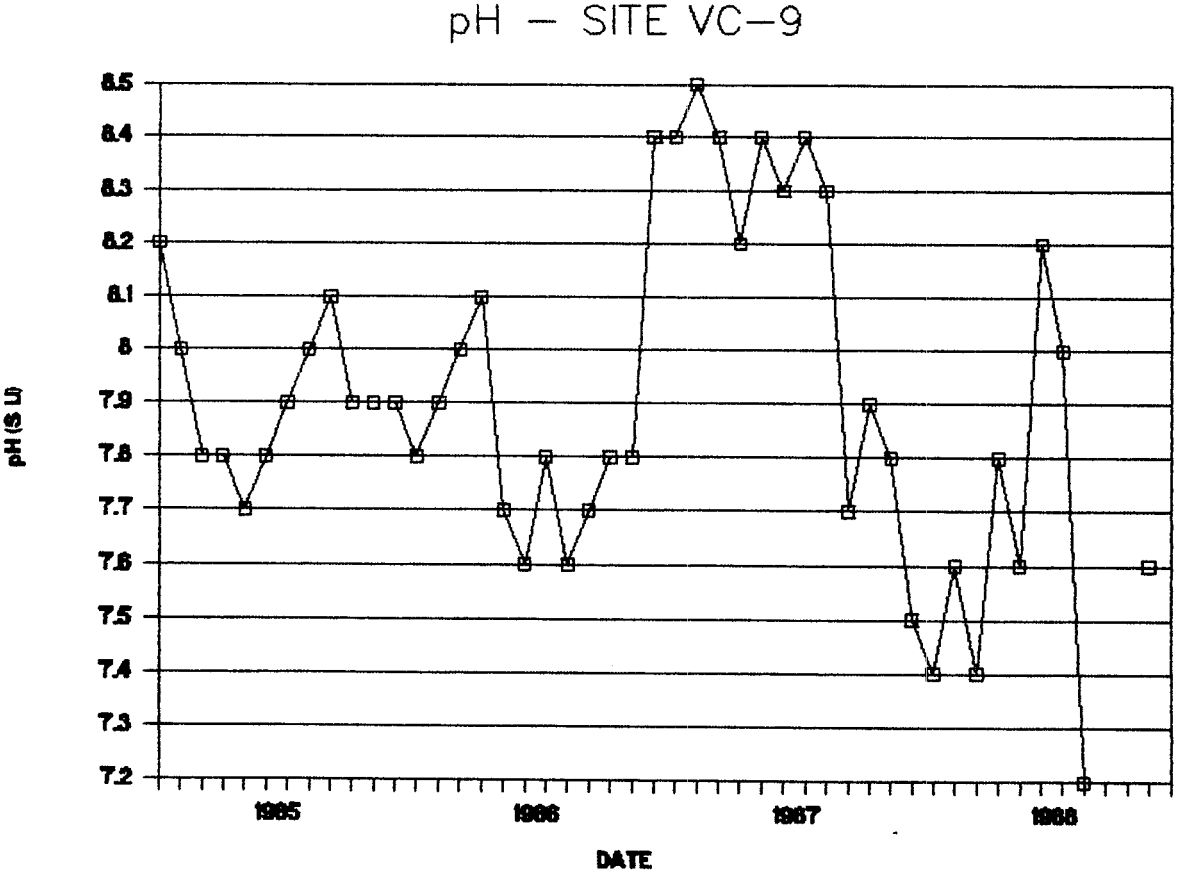

IRON/MANGANESE – VC–6
CONCENTRATION (MG/L)
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0
1981
1982
1983
1984
DATE
IRON – TOTAL
MANGANESE – TOTAL

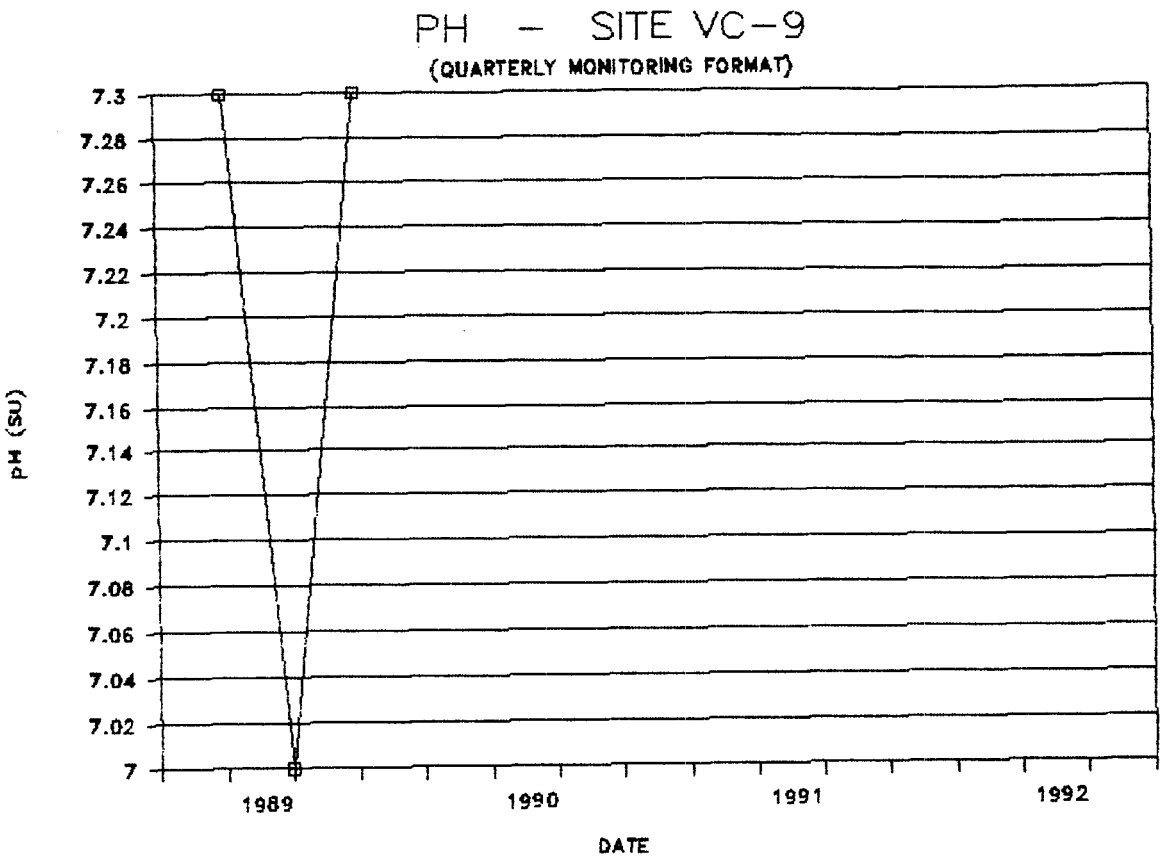

IRON/MANGANESE – VC–6
CONCENTRATION (MG/L)
10
9
8
7
6
5
4
3
2
1
0
1985
1986
1987
1988
DATE
IRON – TOTAL
MANGANESE – TOTAL

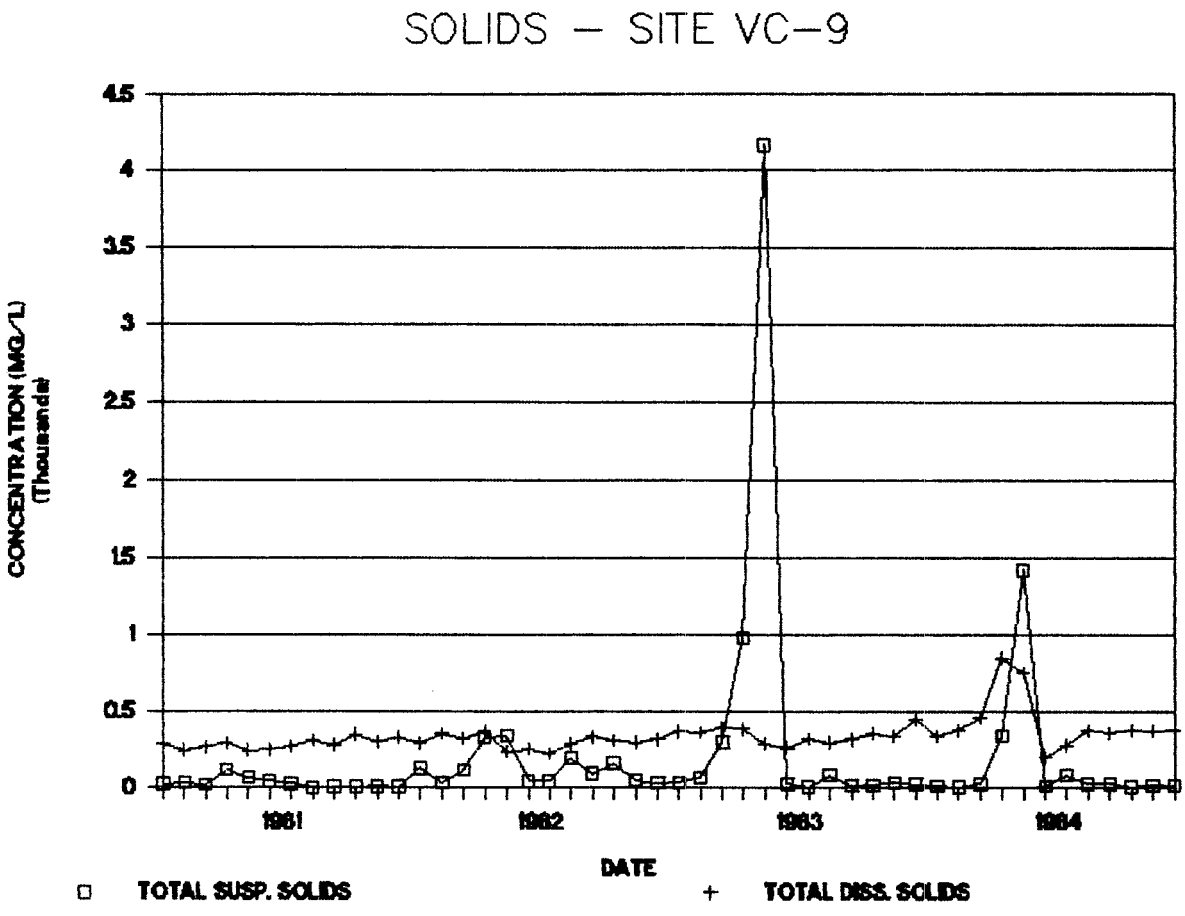

IRON/MANGANESE - SITE VC-6
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

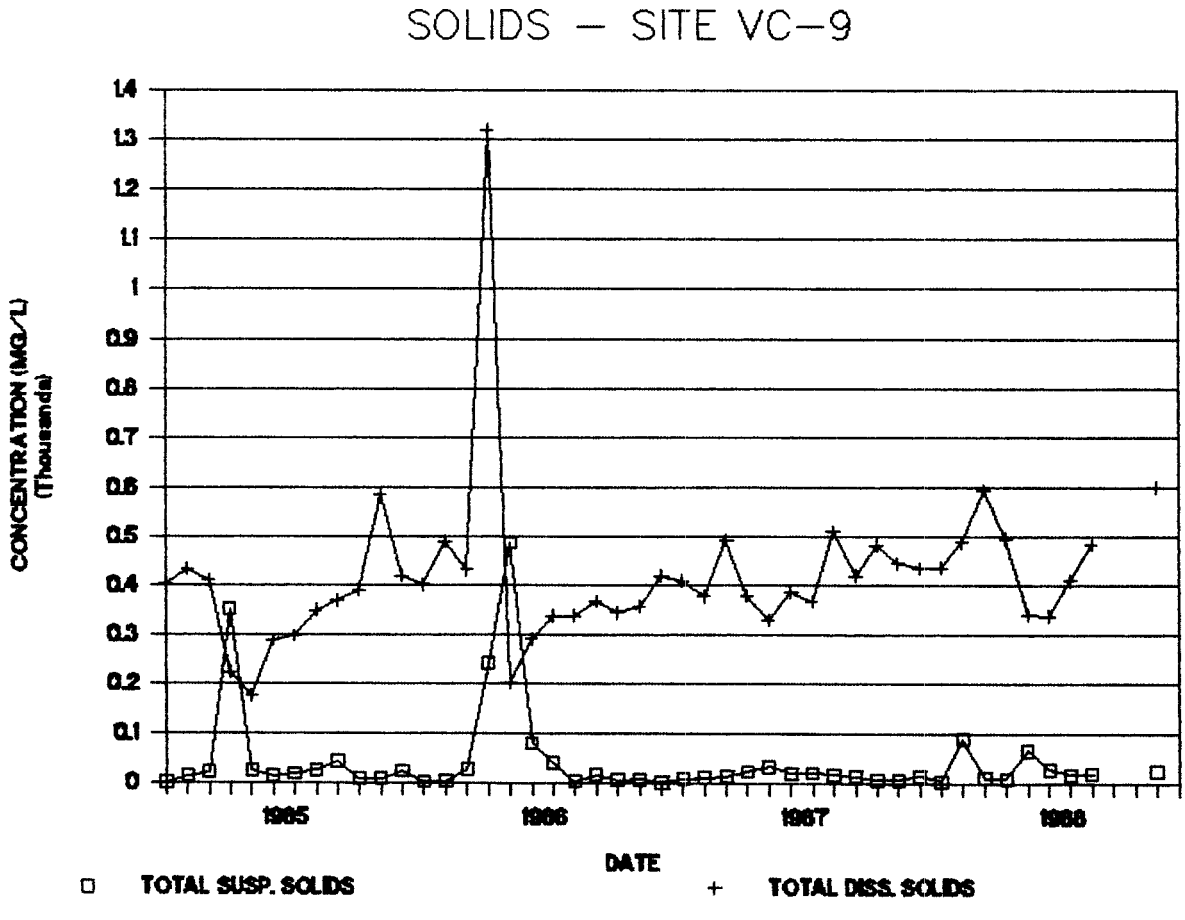

FLOW - SITE VC-9
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
3.4
3.3
3.2
3.1
3
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2
1989
1990
1991
1992
DATE

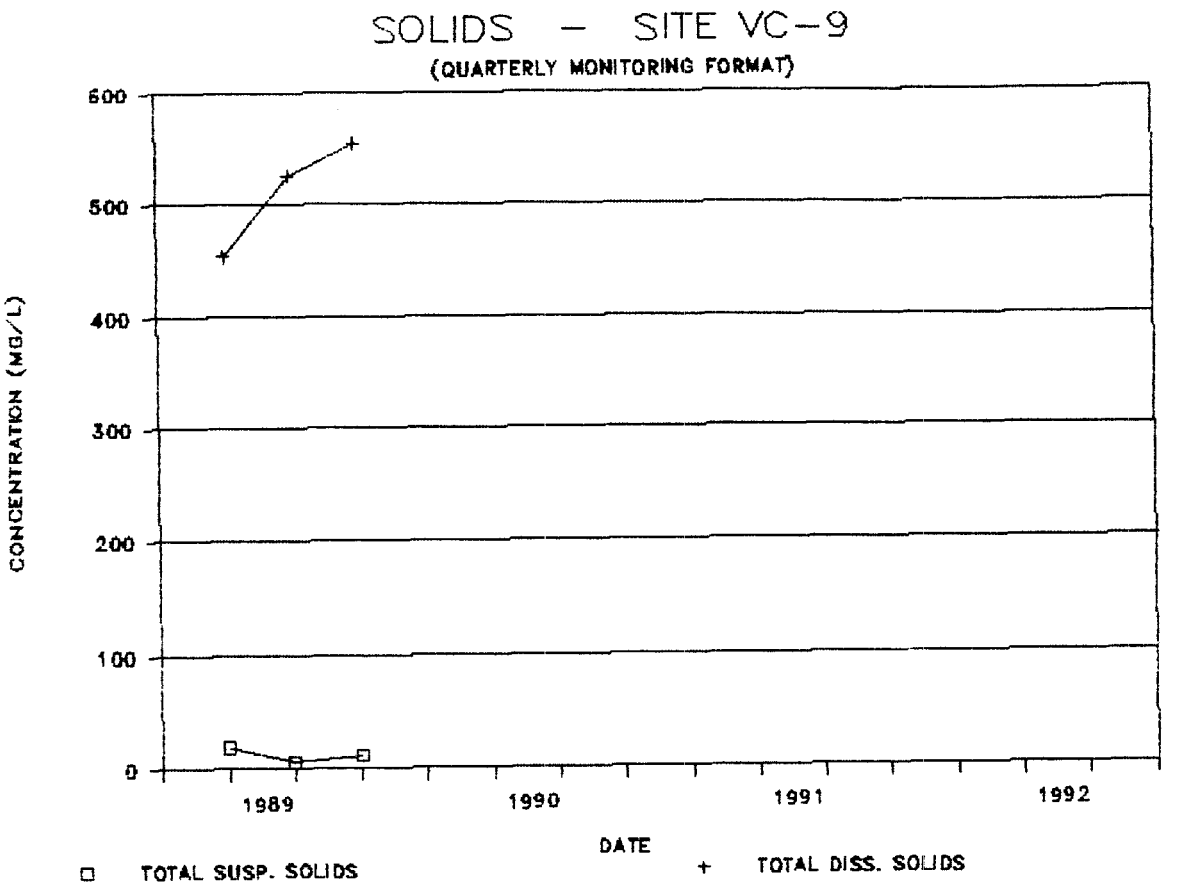

pH – SITE VC–9
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
pH (S U)
1981
1982
1983
1984
DATE

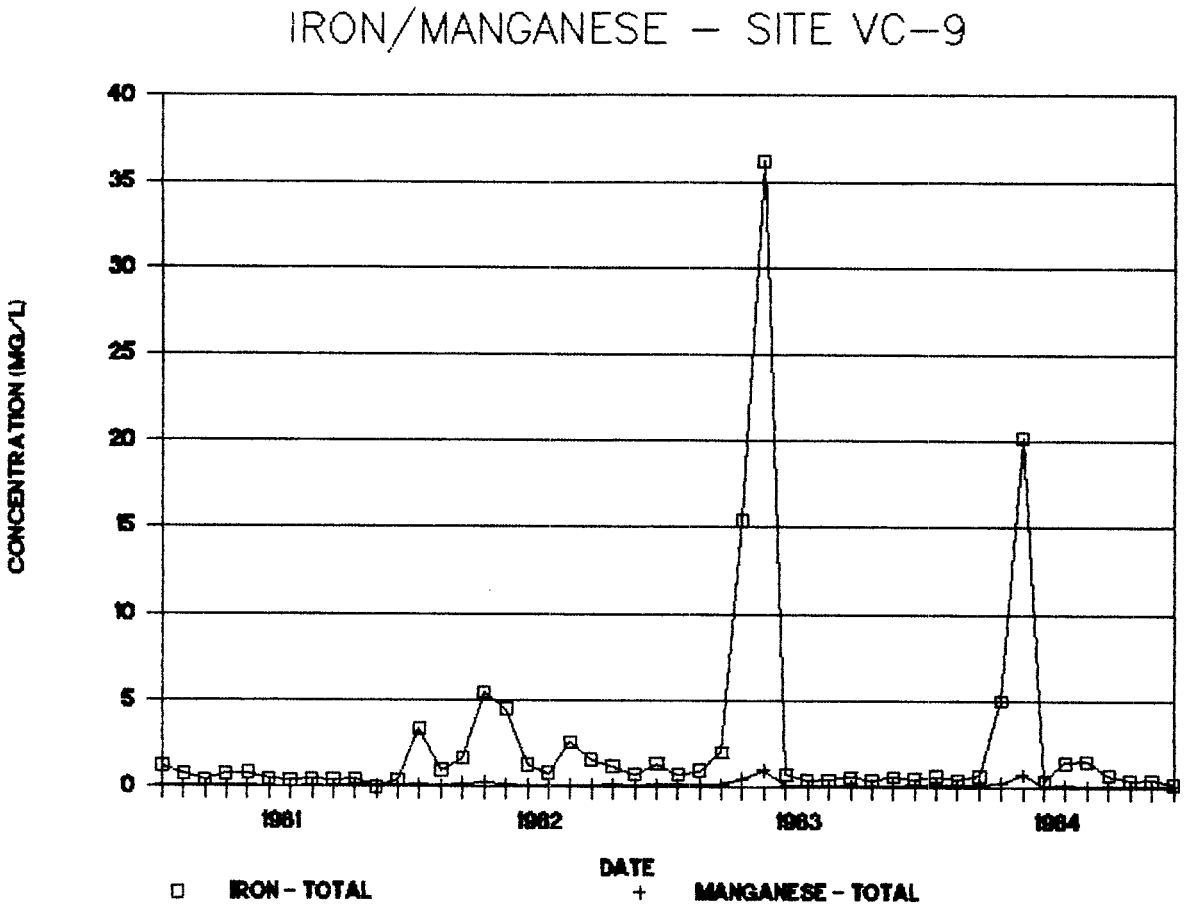

pH – SITE VC–9
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
pH (S U)
1985
1986
1987
1988
DATE

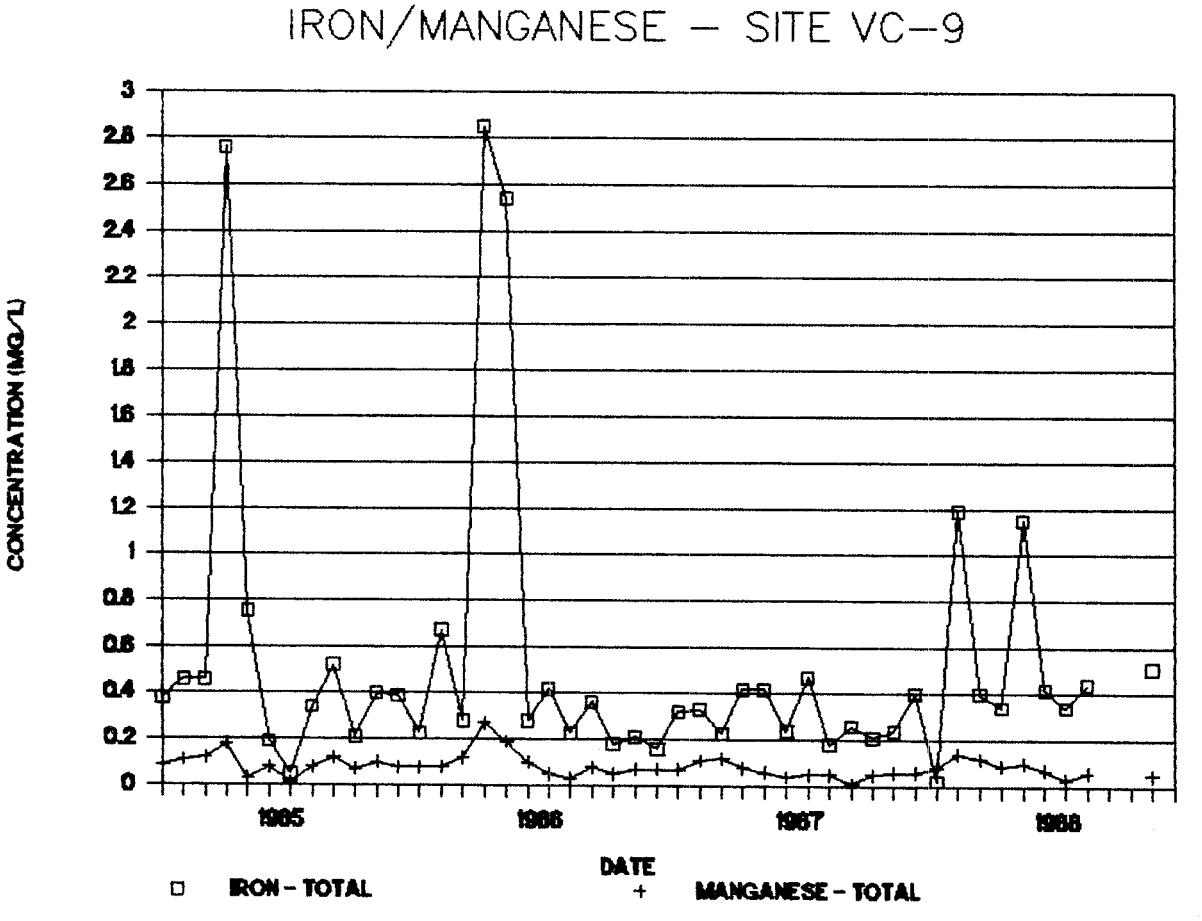

PH - SITE VC-9
(QUARTERLY MONITORING FORMAT)
7.3
7.28
7.26
7.24
7.22
7.2
7.18
7.16
7.14
7.12
7.1
7.08
7.06
7.04
7.02
7
pH (SU)
1989
1990
1991
1992
DATE

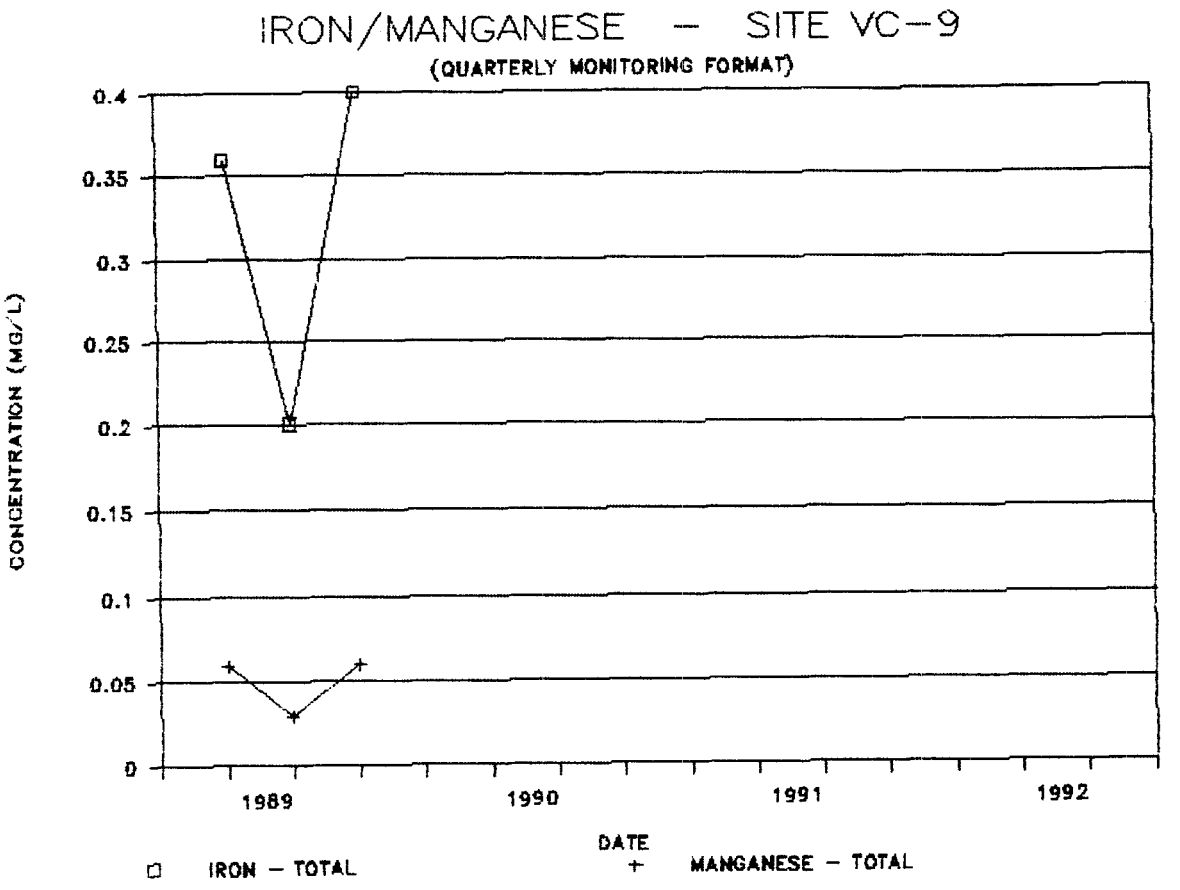

SOLIDS – SITE VC-9
CONCENTRATION (MG/L)
(Thousands)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

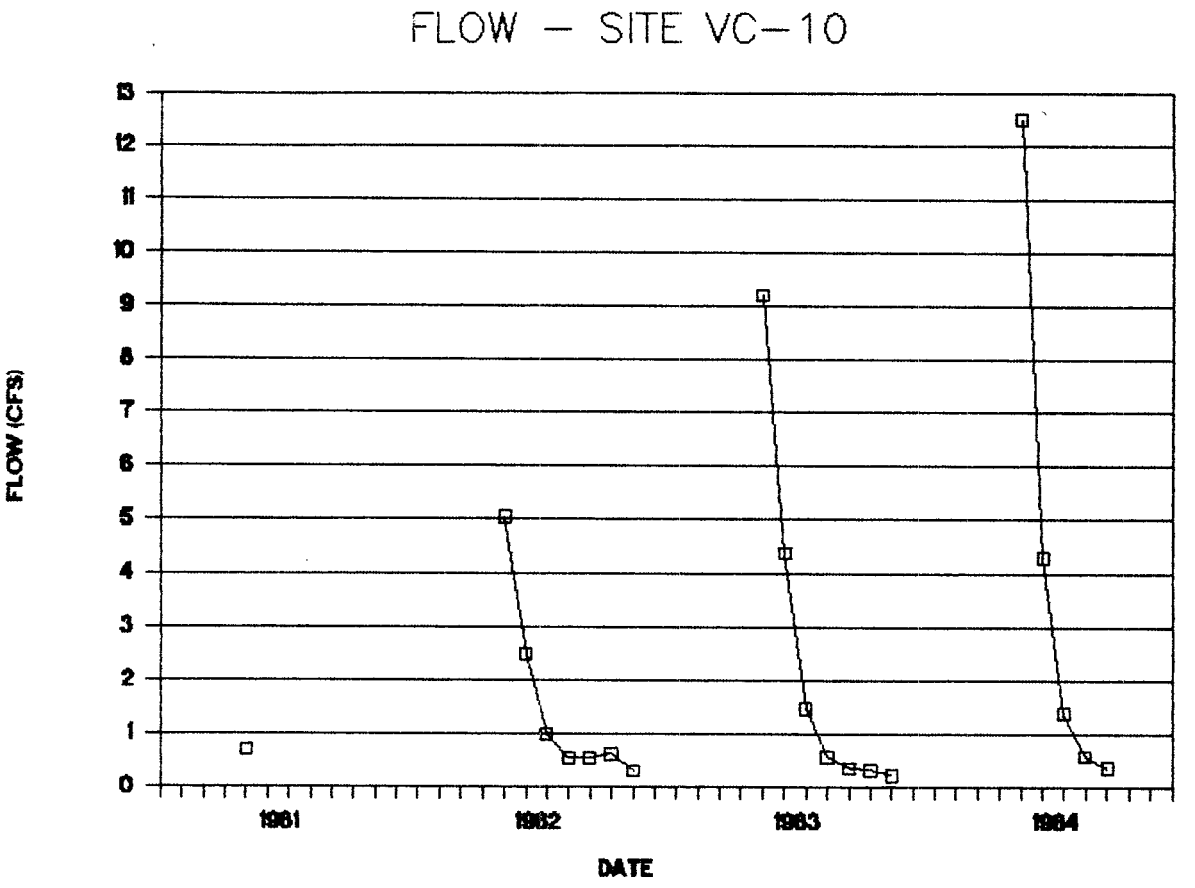

SOLIDS – SITE VC-9
CONCENTRATION (MG/L)
(Thousands)
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

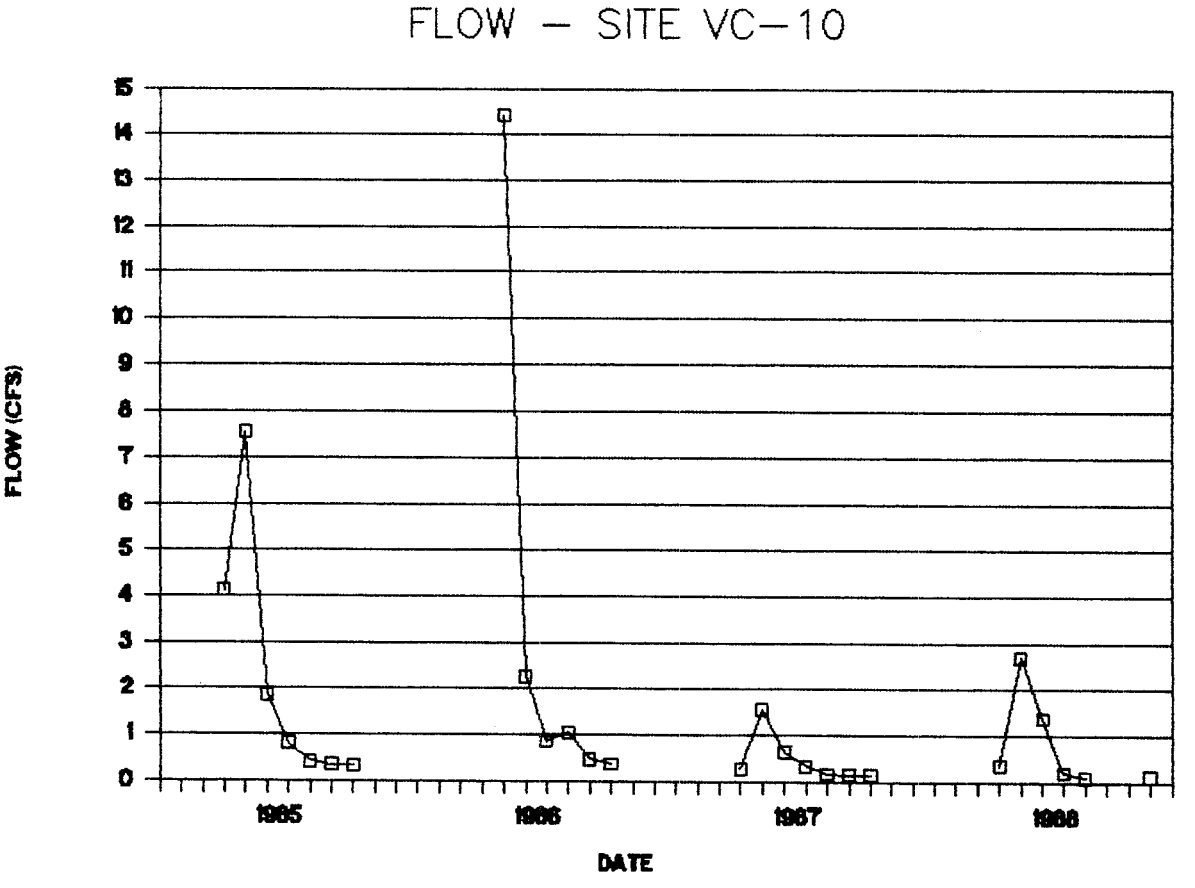

SOLIDS - SITE VC-9
(QUARTERLY MONITORING FORMAT)
600
500
400
300
200
100
0
CONCENTRATION (MG/L)
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

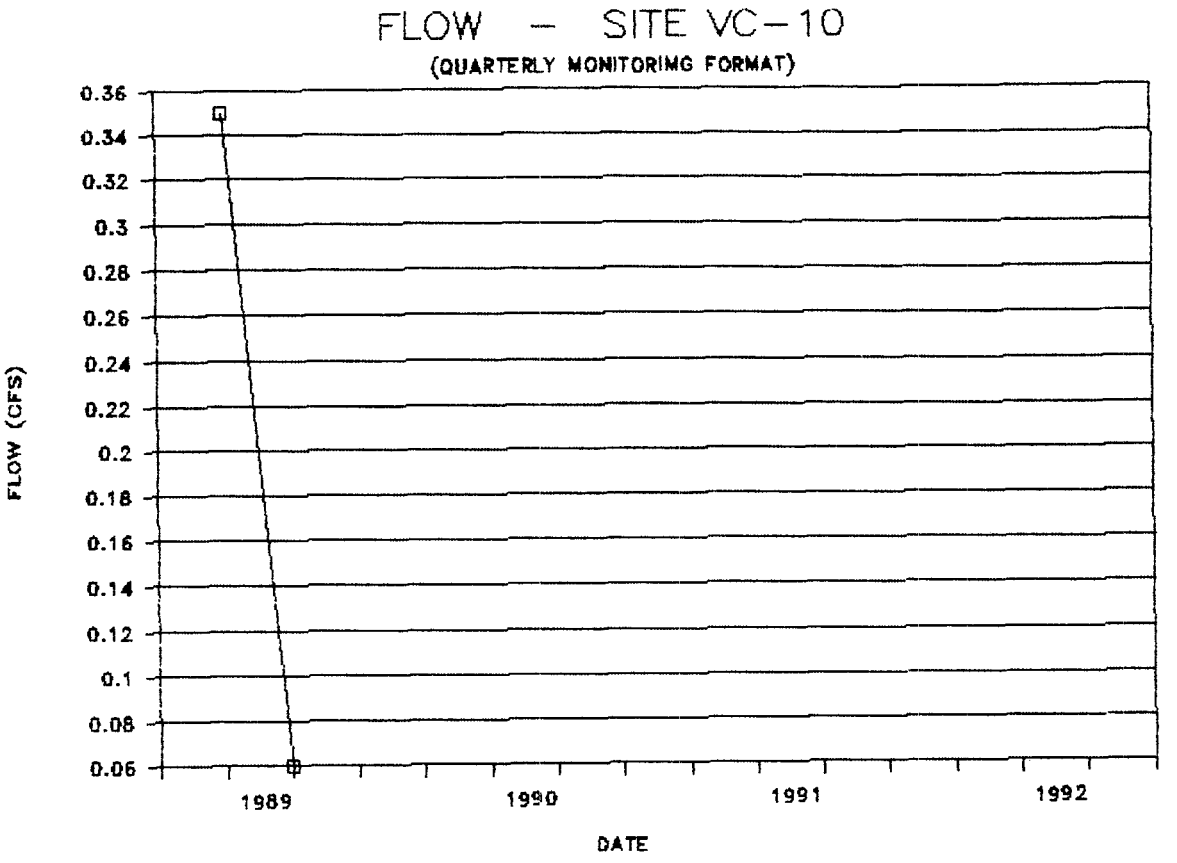

IRON/MANGANESE – SITE VC–9
CONCENTRATION (MG/L)
40
35
30
25
20
15
10
5
0
1981
1982
1983
1984
DATE
IRON – TOTAL
MANGANESE – TOTAL

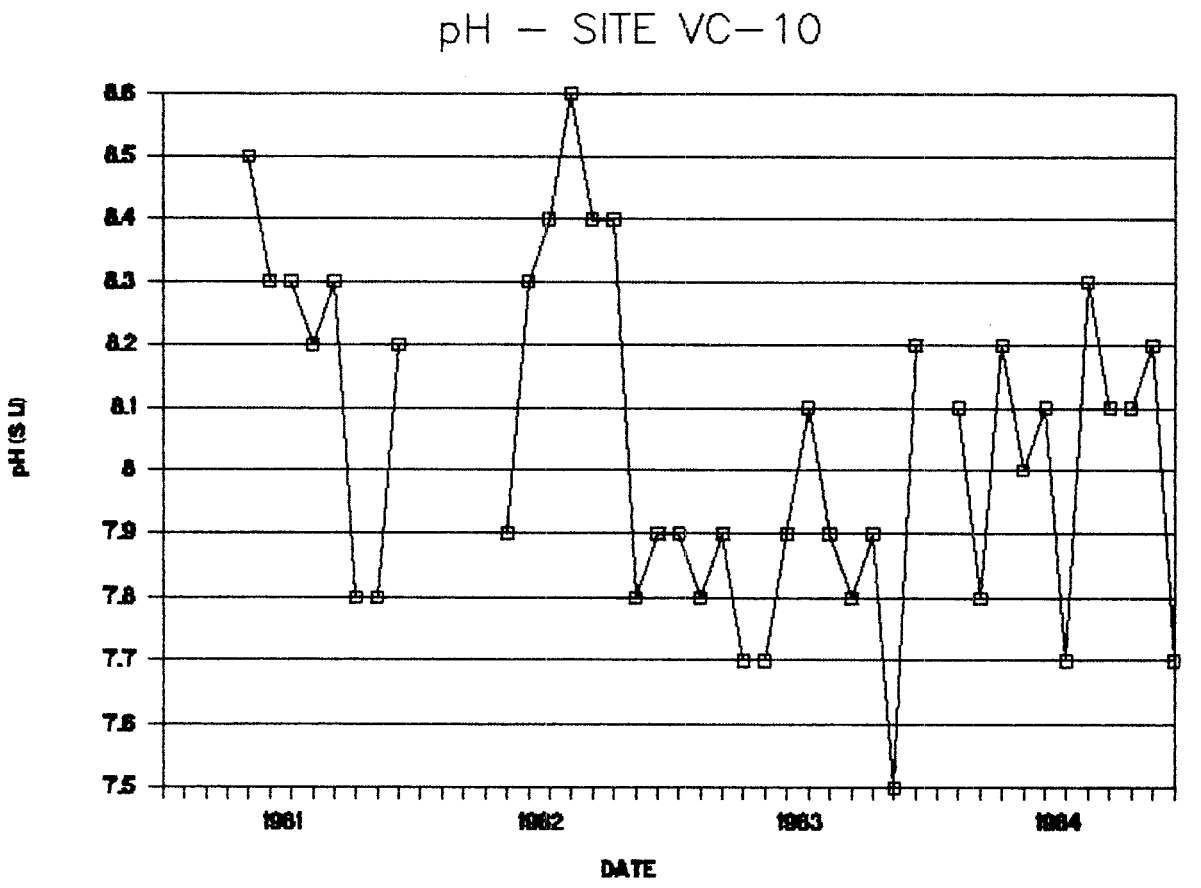

IRON/MANGANESE – SITE VC–9
CONCENTRATION (MG/L)
3
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1985
1986
1987
1988
DATE
IRON – TOTAL
MANGANESE – TOTAL

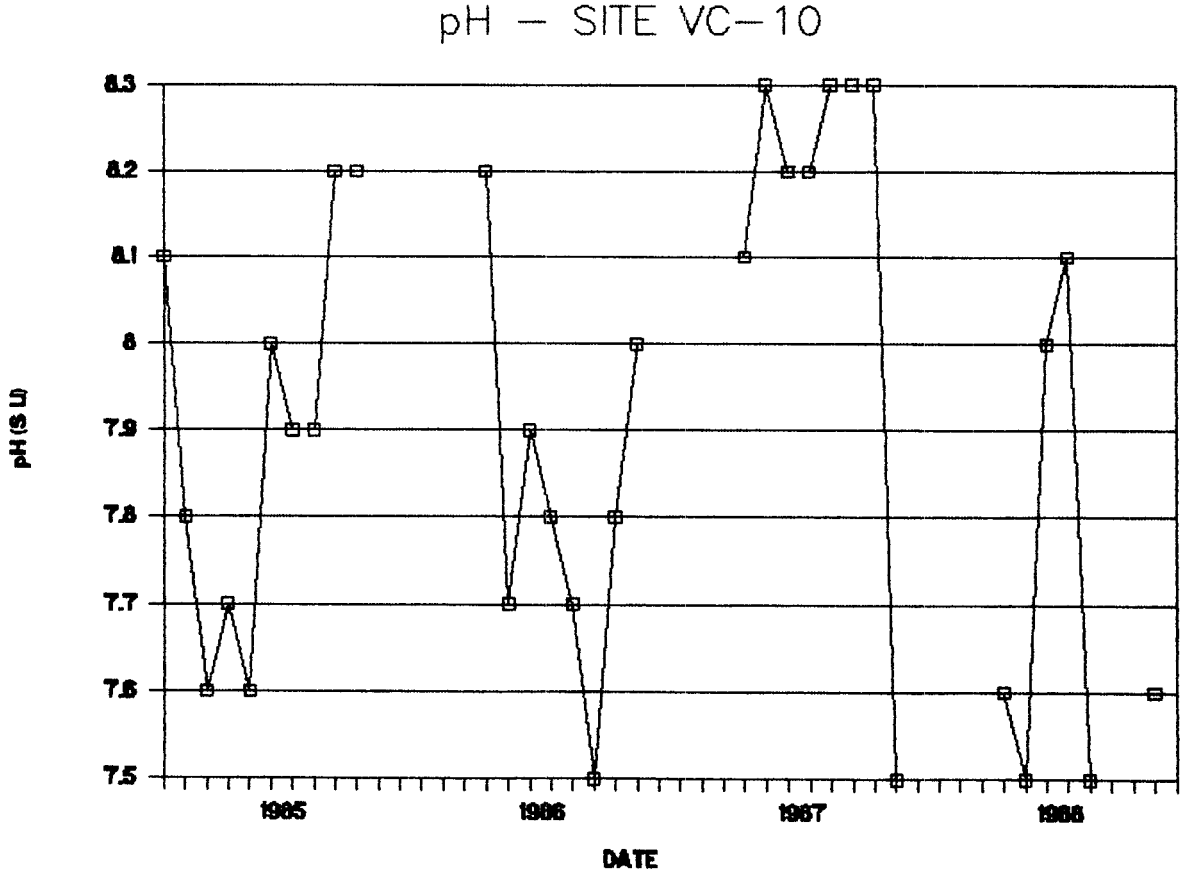

IRON/MANGANESE - SITE VC-9
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

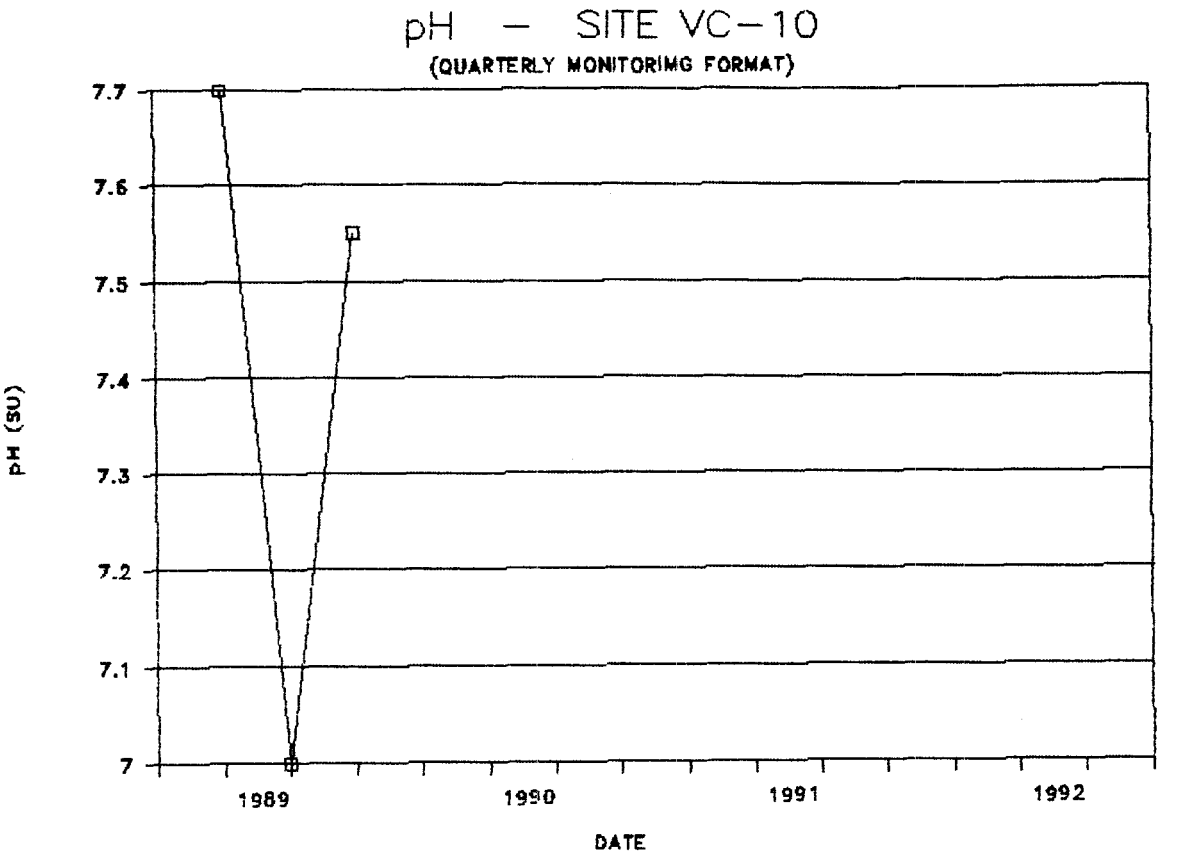

FLOW – SITE VC–10
FLOW (CFS)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
1981
1982
1983
1984
DATE

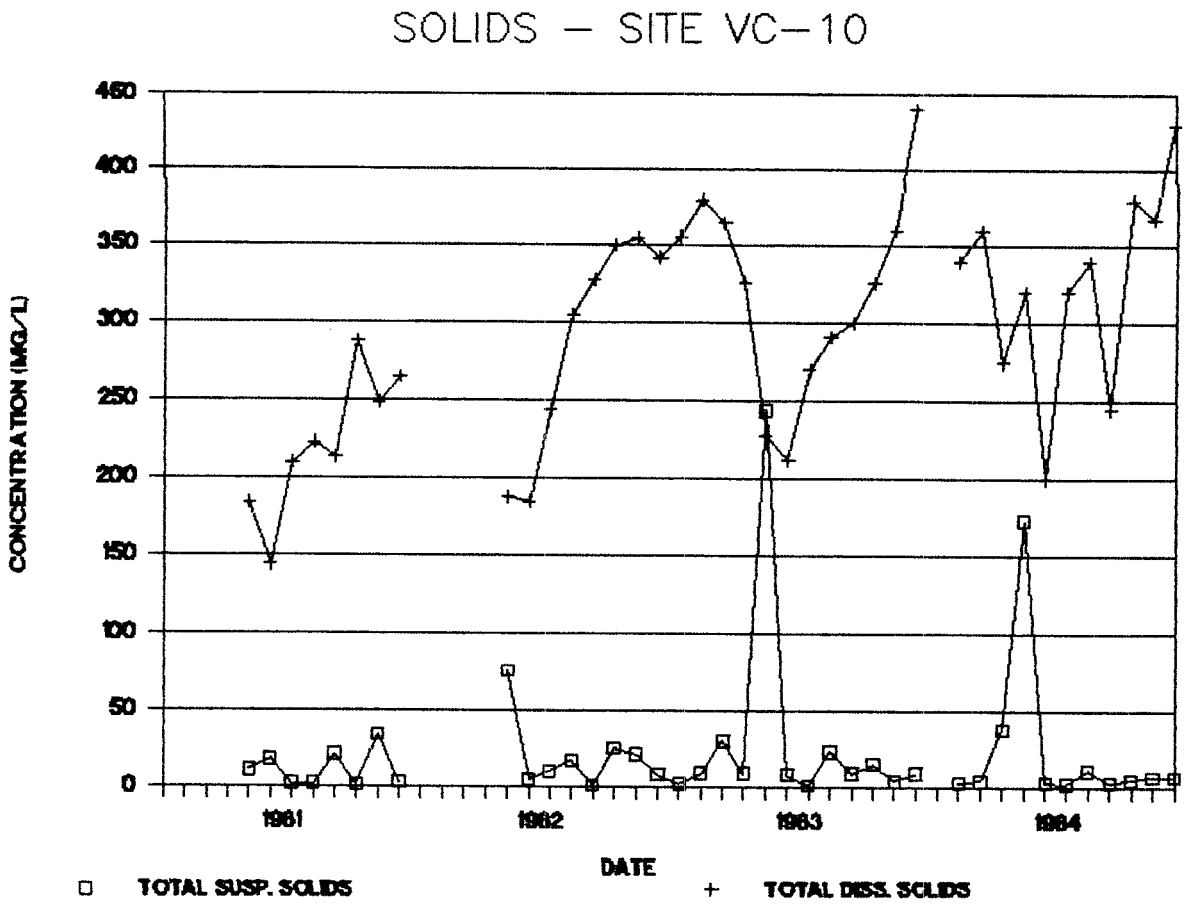

FLOW – SITE VC–10
FLOW (CFS)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
1985
1986
1987
1988
DATE

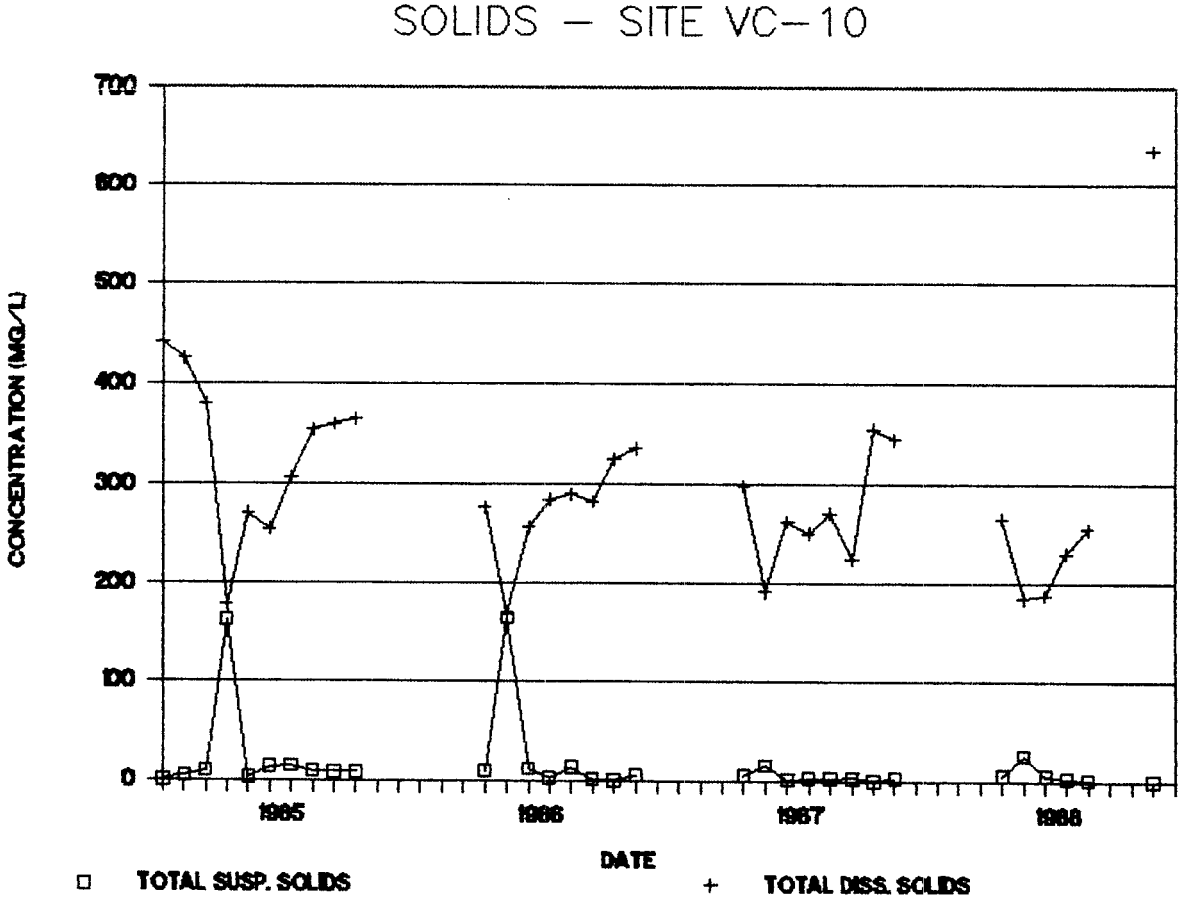

FLOW - SITE VC-10
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.36
0.34
0.32
0.3
0.28
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
1989
1990
1991
1992
DATE

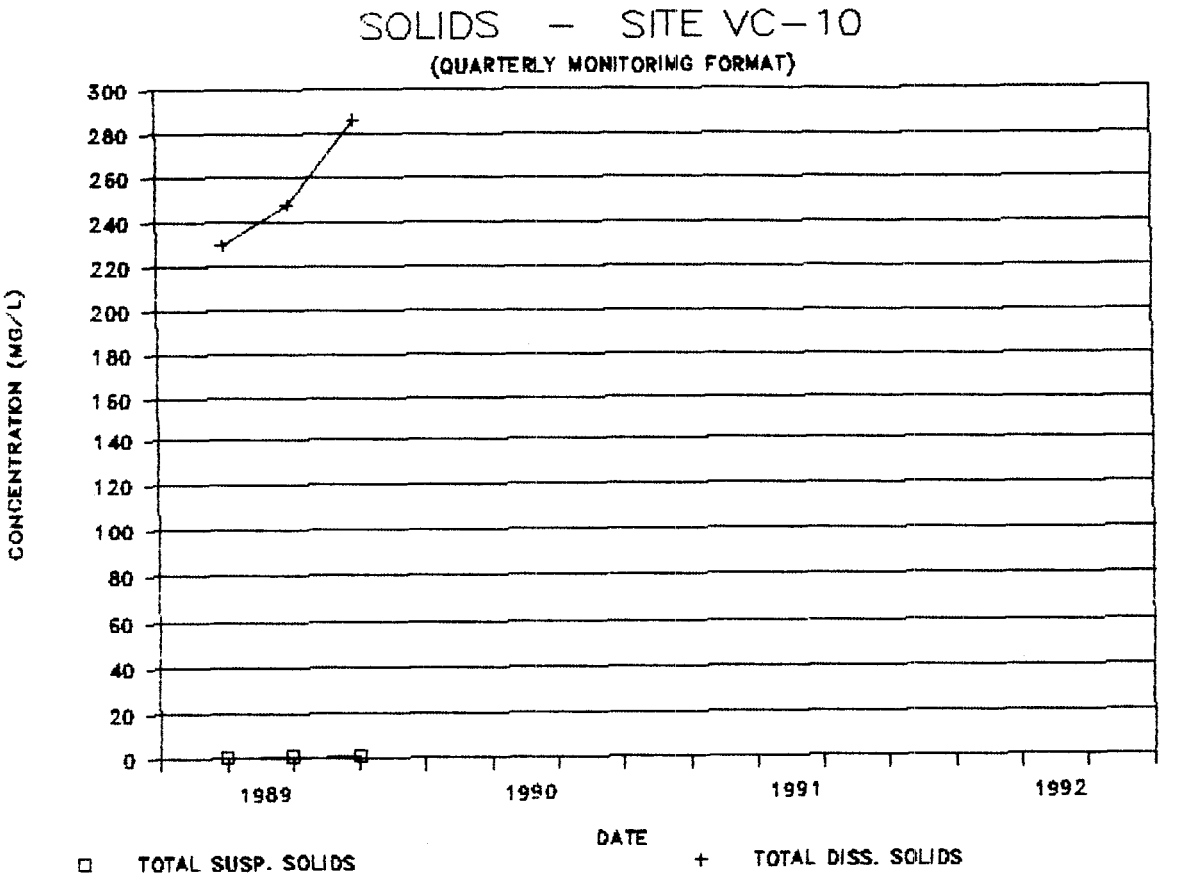

pH – SITE VC–10
8.6
8.5
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
pH (S U)
1981
1982
1983
1984
DATE

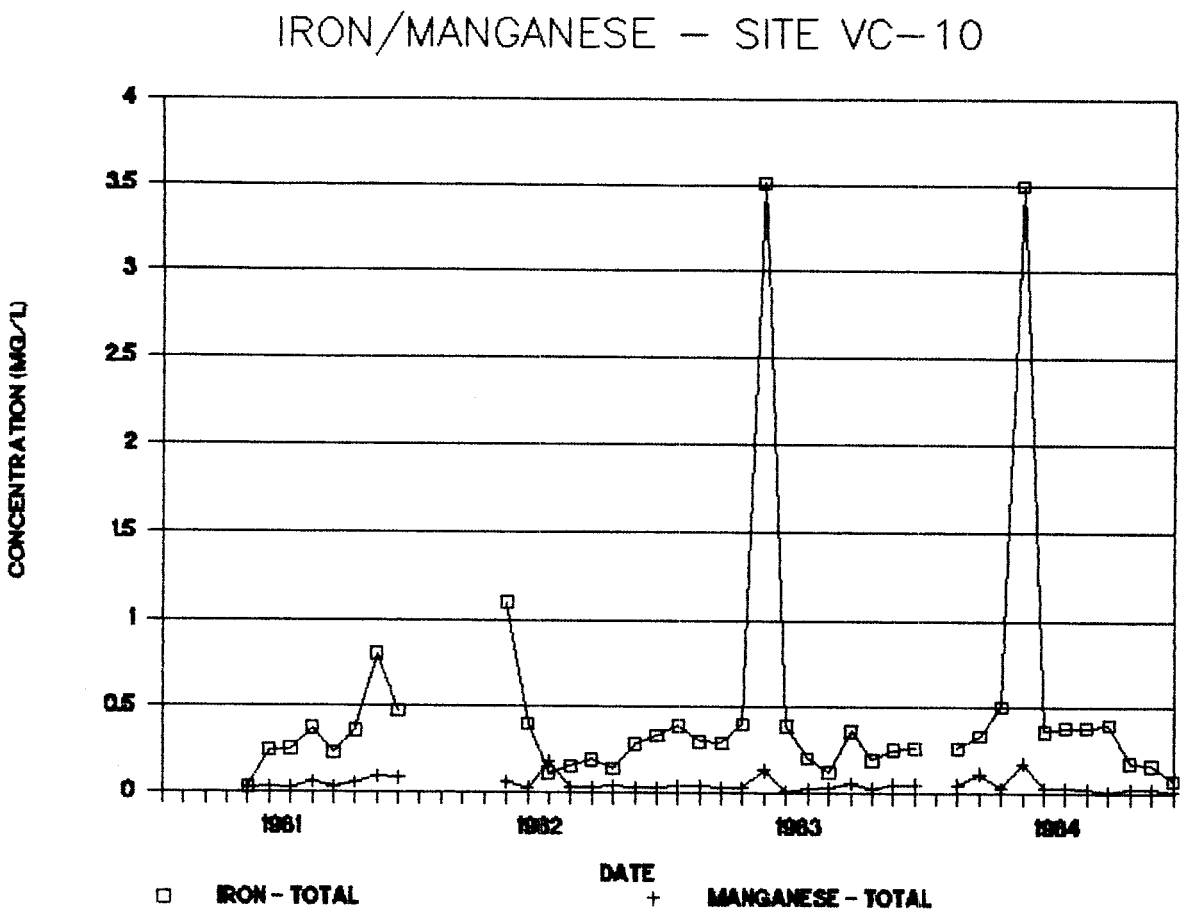

pH – SITE VC–10
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
pH (S U)
1985
1986
1987
1988
DATE

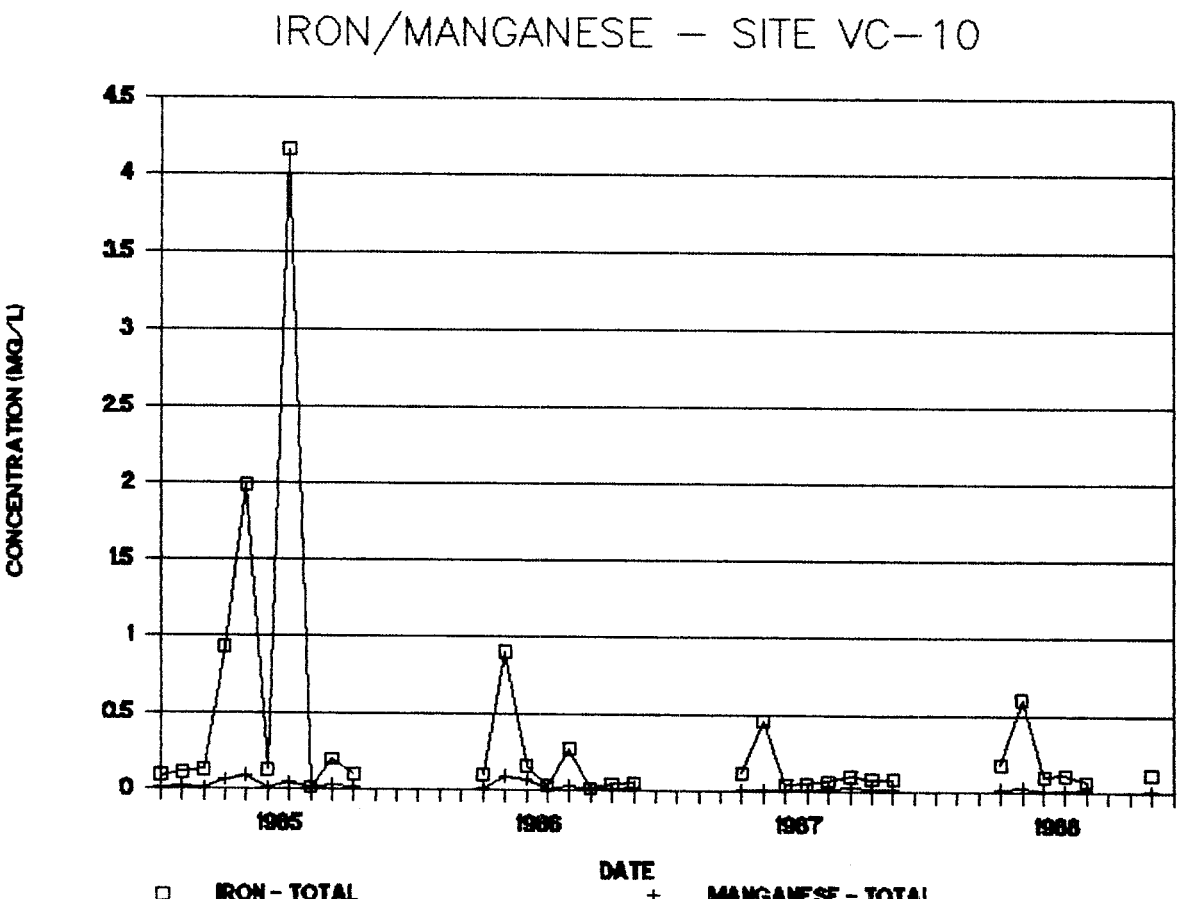

pH - SITE VC-10
(QUARTERLY MONITORIMG FORMAT)
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
pH (SU)
1989
1990
1991
1992
DATE

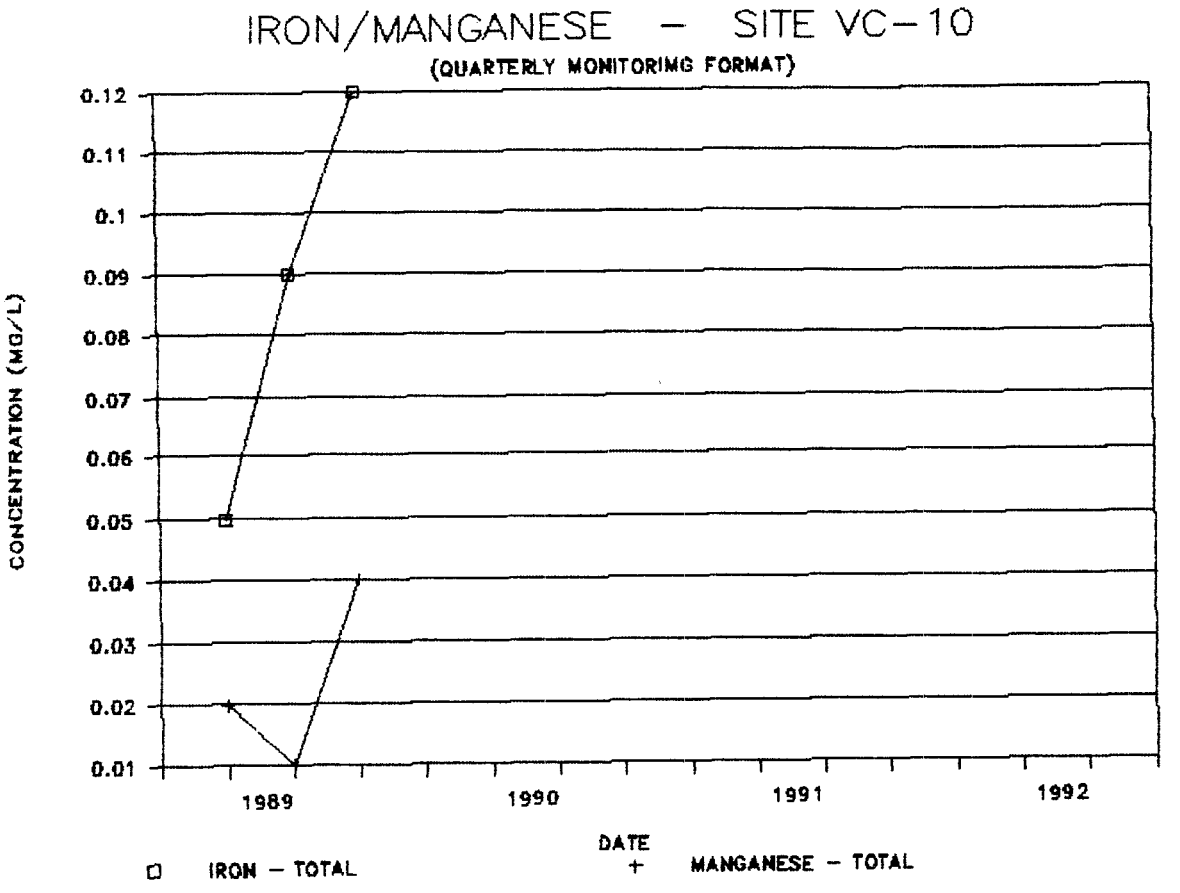

SOLIDS – SITE VC–10
CONCENTRATION (MG/L)
450
400
350
300
250
200
150
100
50
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

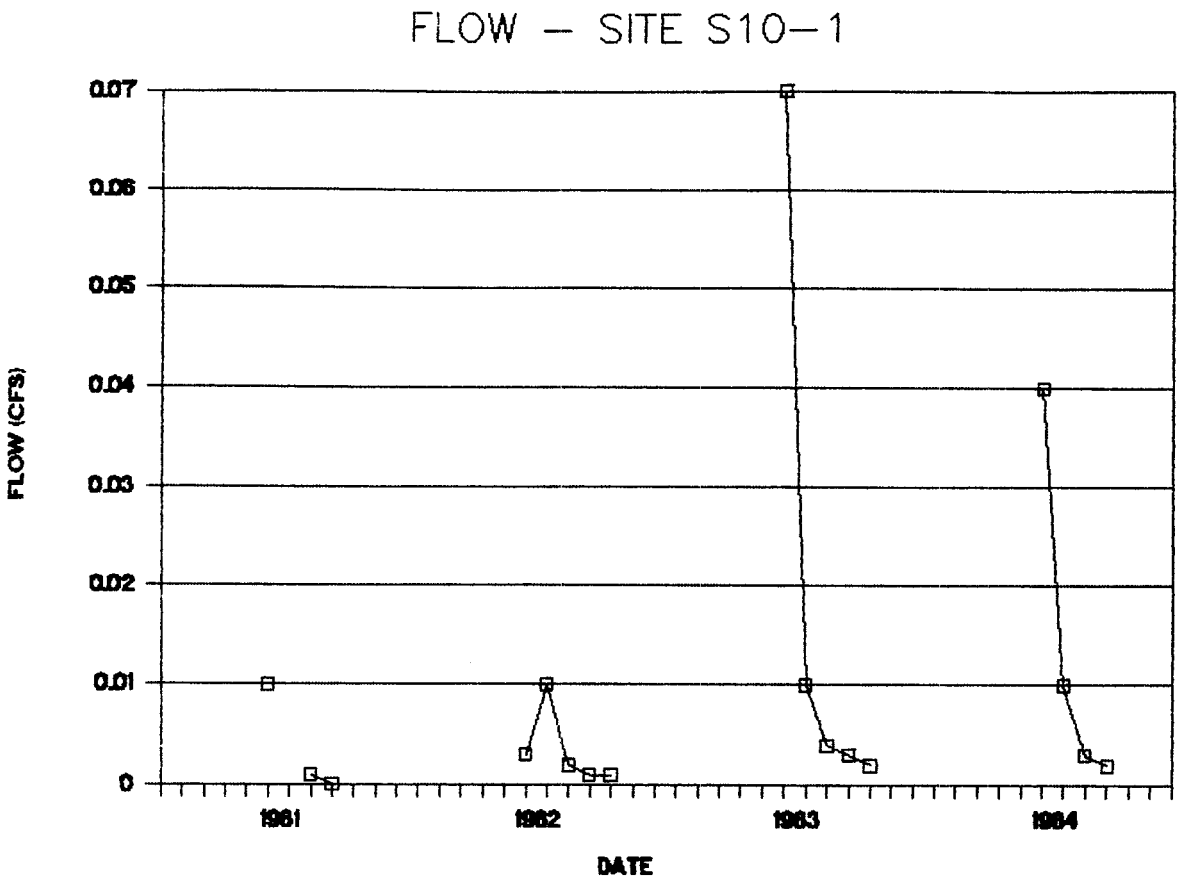

SOLIDS – SITE VC–10
CONCENTRATION (MG/L)
700
600
500
400
300
200
100
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

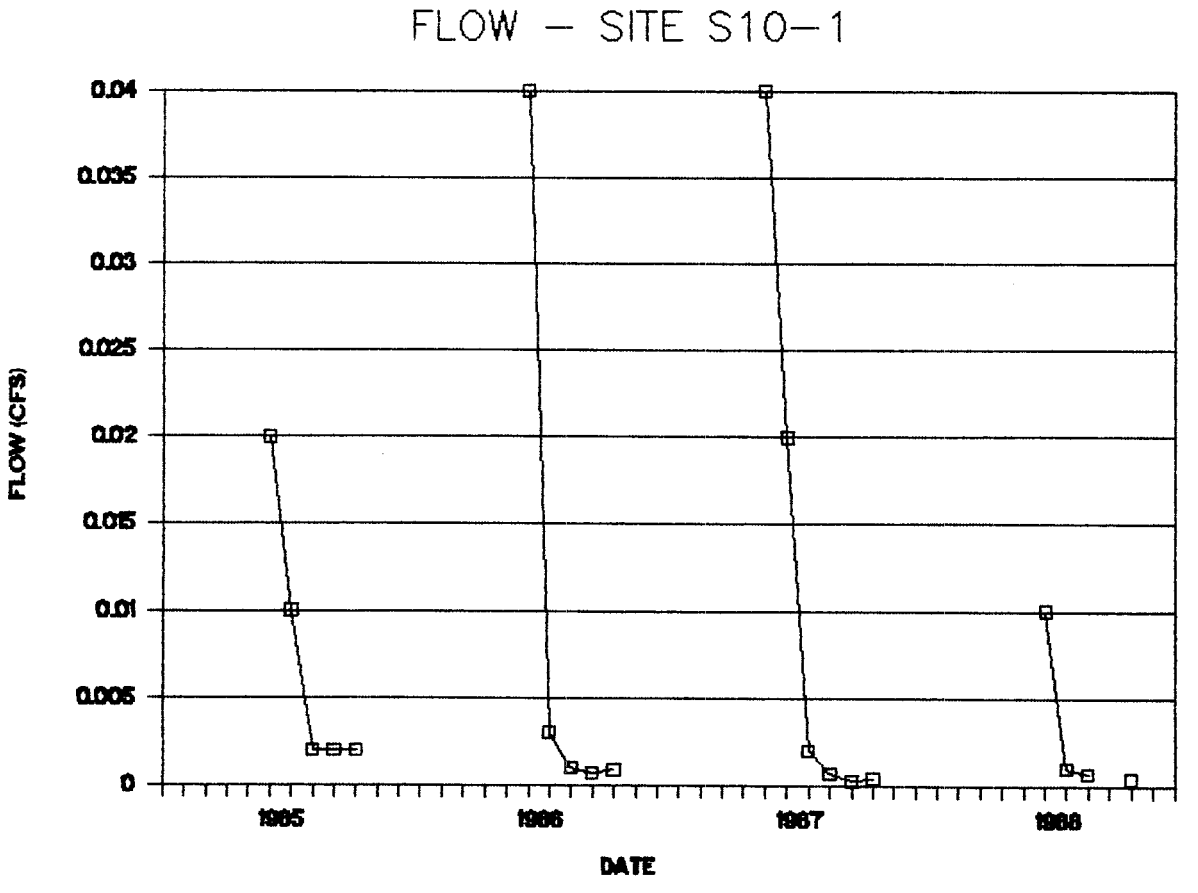

SOLIDS - SITE VC-10
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

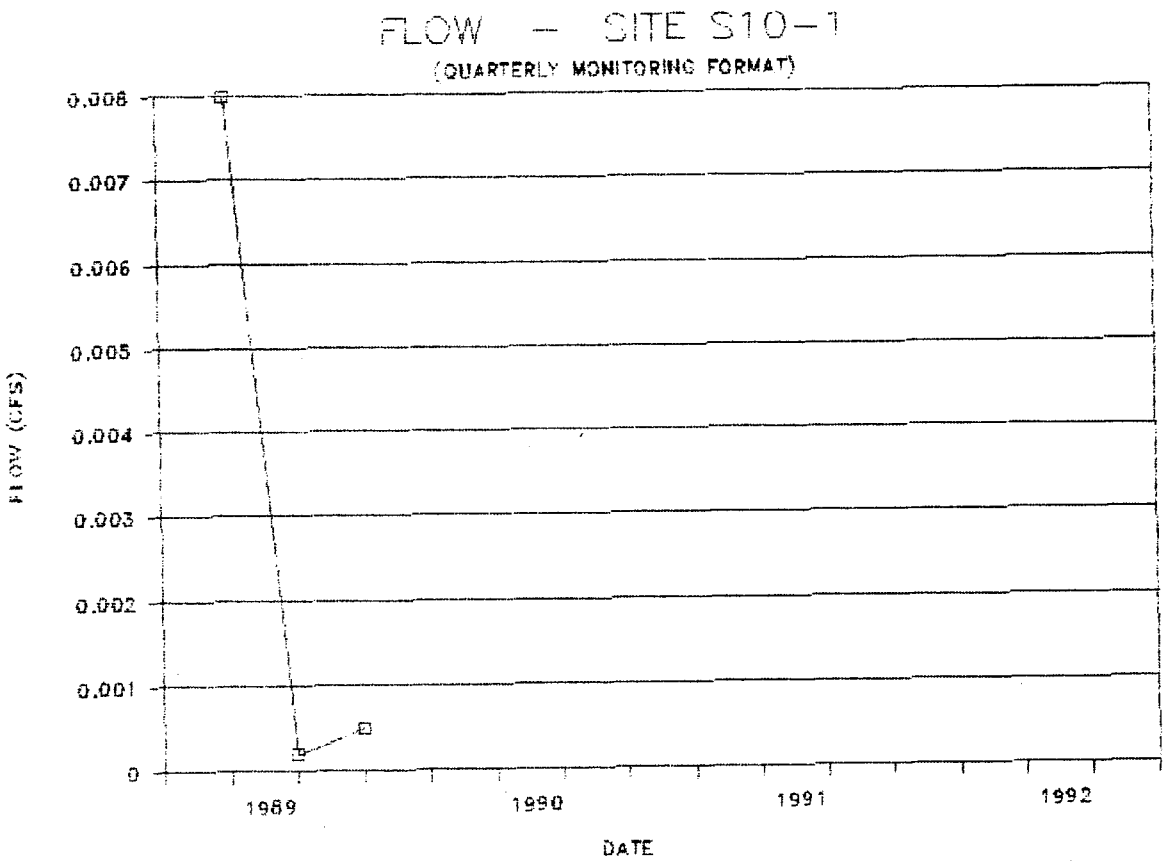

IRON/MANGANESE – SITE VC–10
CONCENTRATION (MG/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
1981
1982
1983
1984
DATE
IRON - TOTAL
MANGANESE - TOTAL

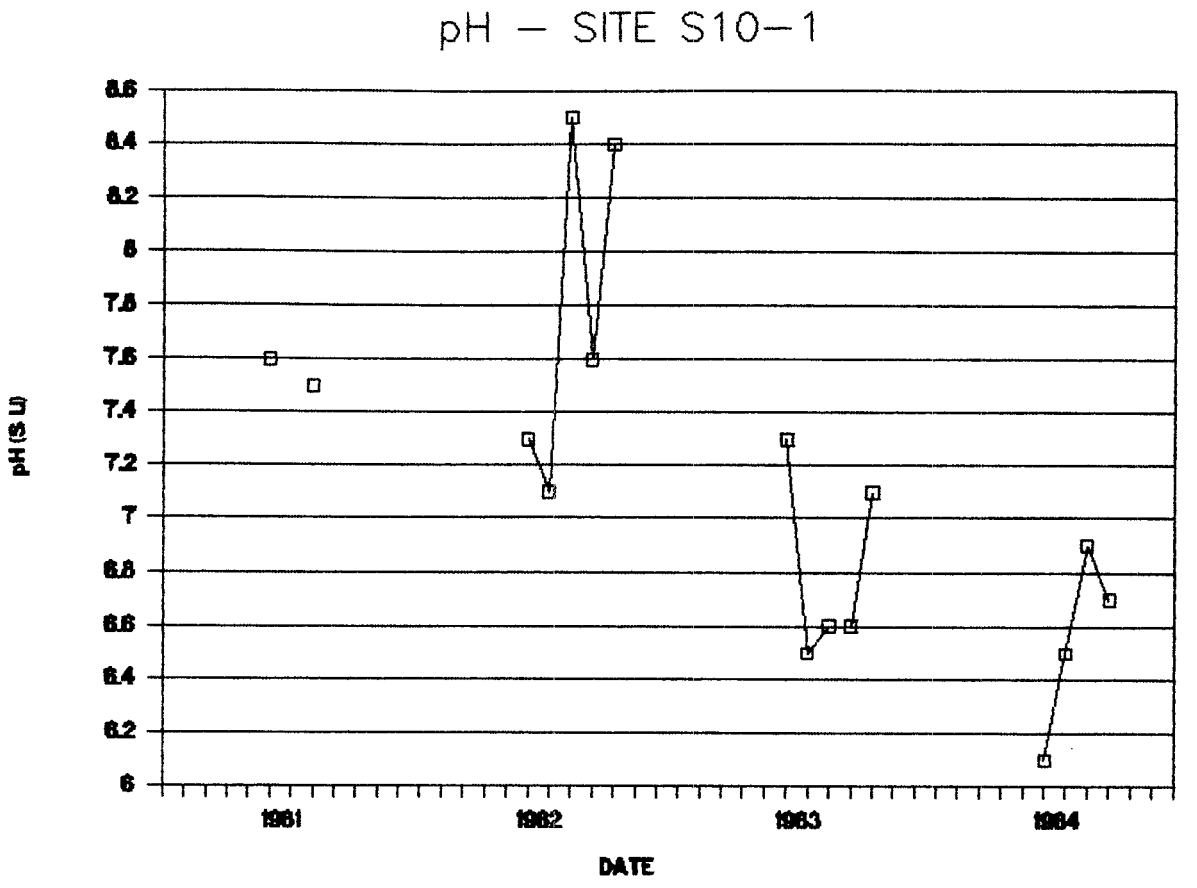

IRON/MANGANESE – SITE VC–10
CONCENTRATION (MG/L)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
1985
1986
1987
1988
DATE
IRON - TOTAL
MANGANESE - TOTAL

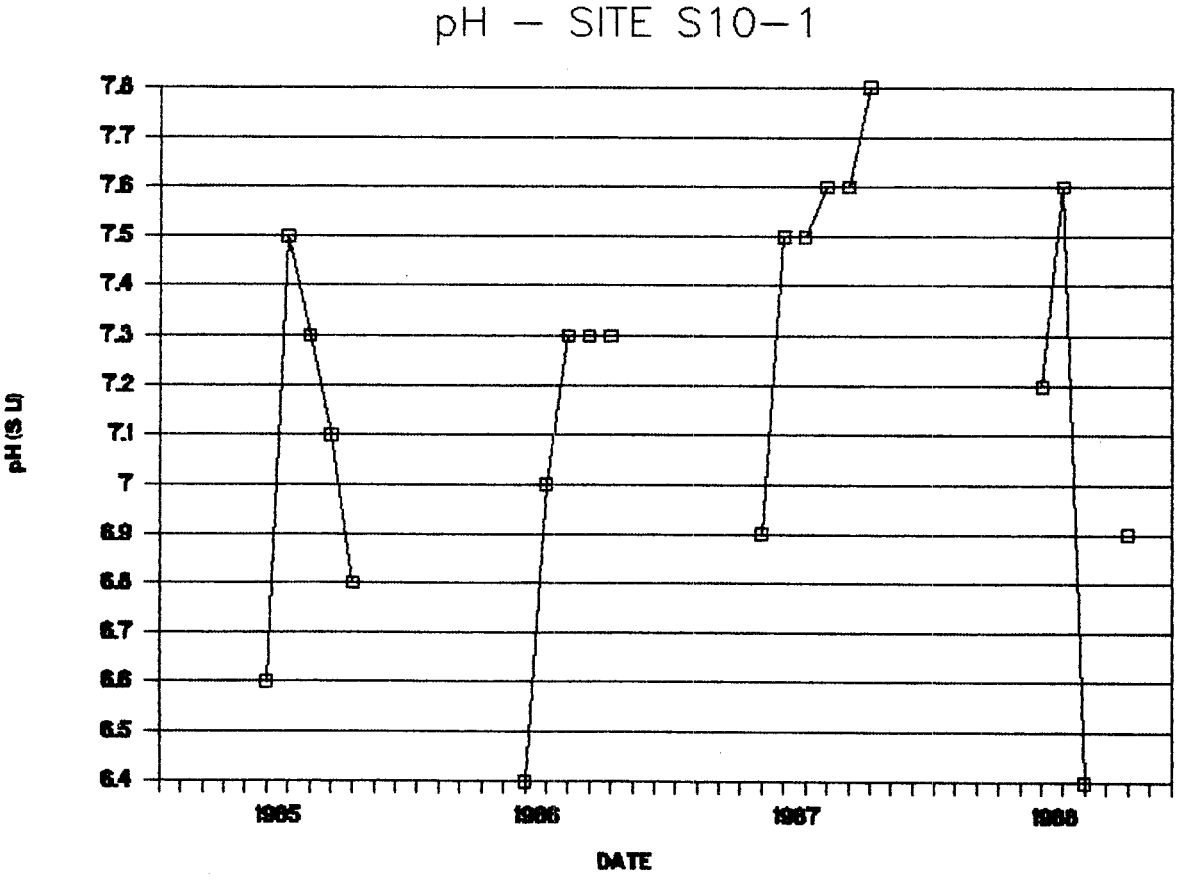

IRON/MANGANESE - SITE VC-10
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

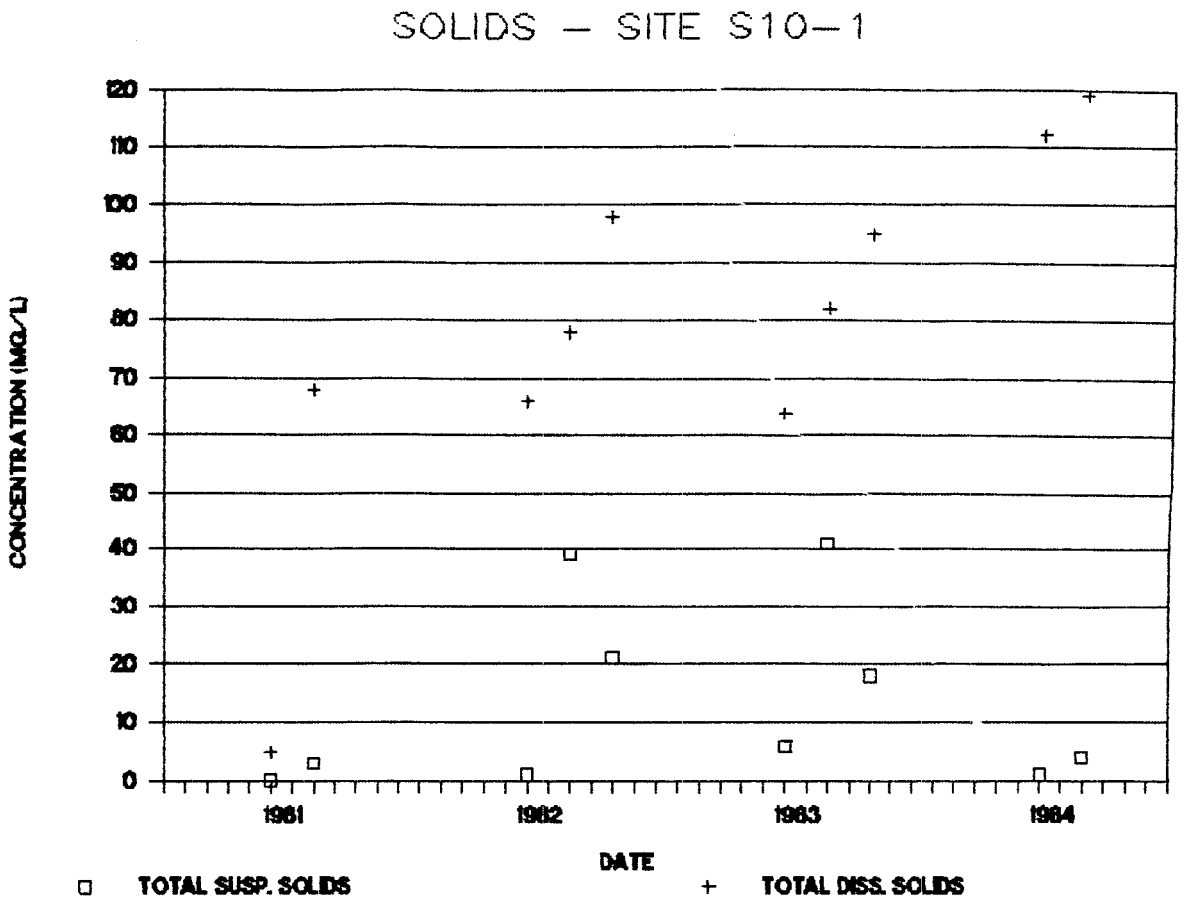

FLOW – SITE S10–1
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
FLOW (CFS)
1981
1982
1983
1984
DATE

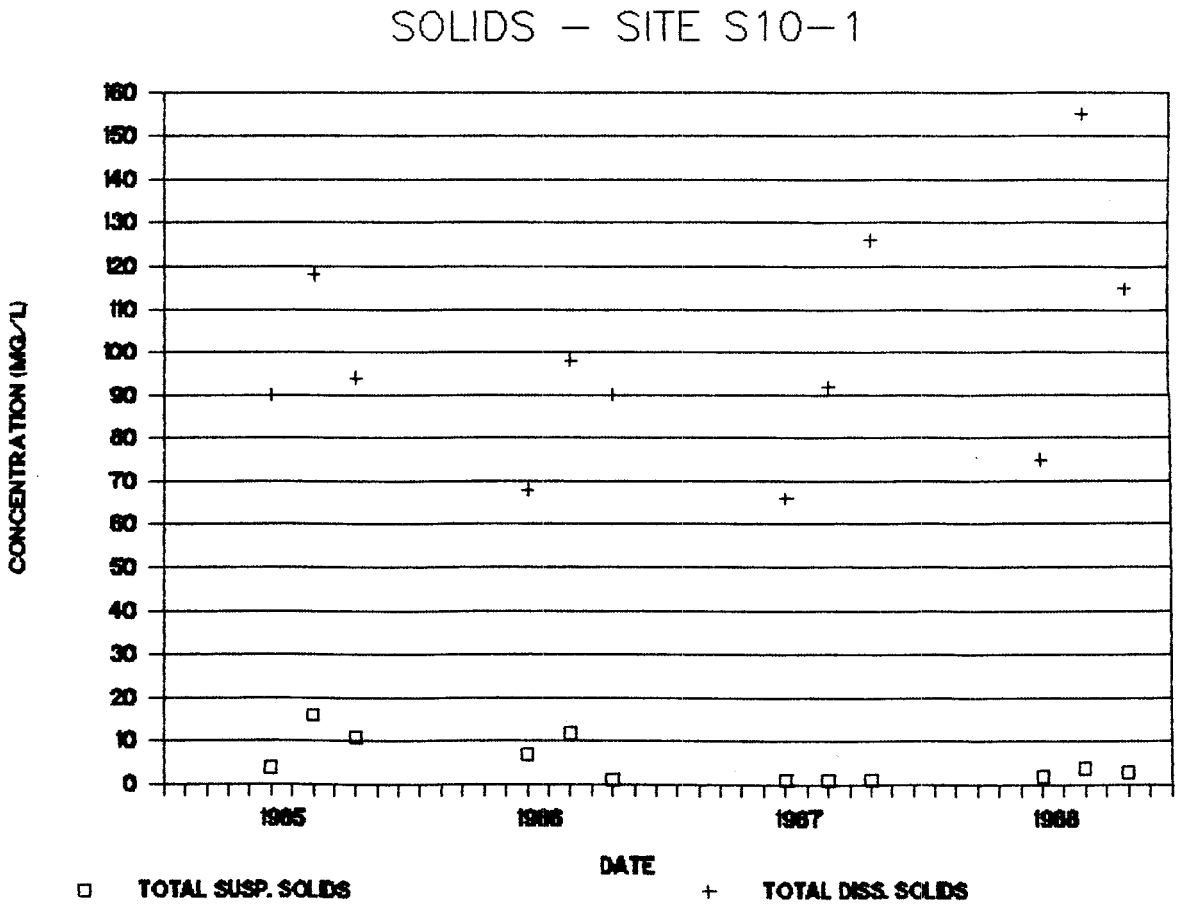

FLOW – SITE S10–1
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
FLOW (CFS)
1985
1986
1987
1988
DATE

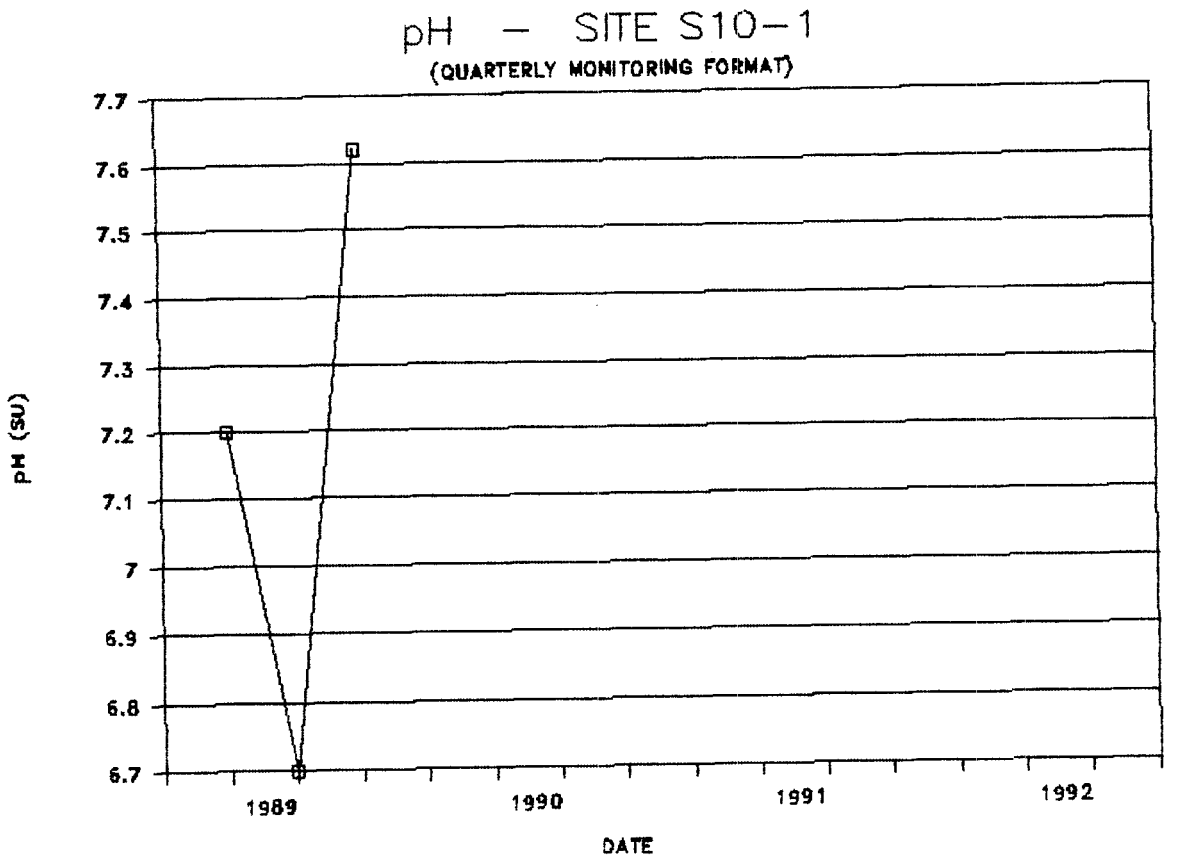

FLOW -- SITE S10-1
(QUARTERLY MONITORING FORMAT)
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
FLOW (CFS)
1989
1990
1991
1992
DATE

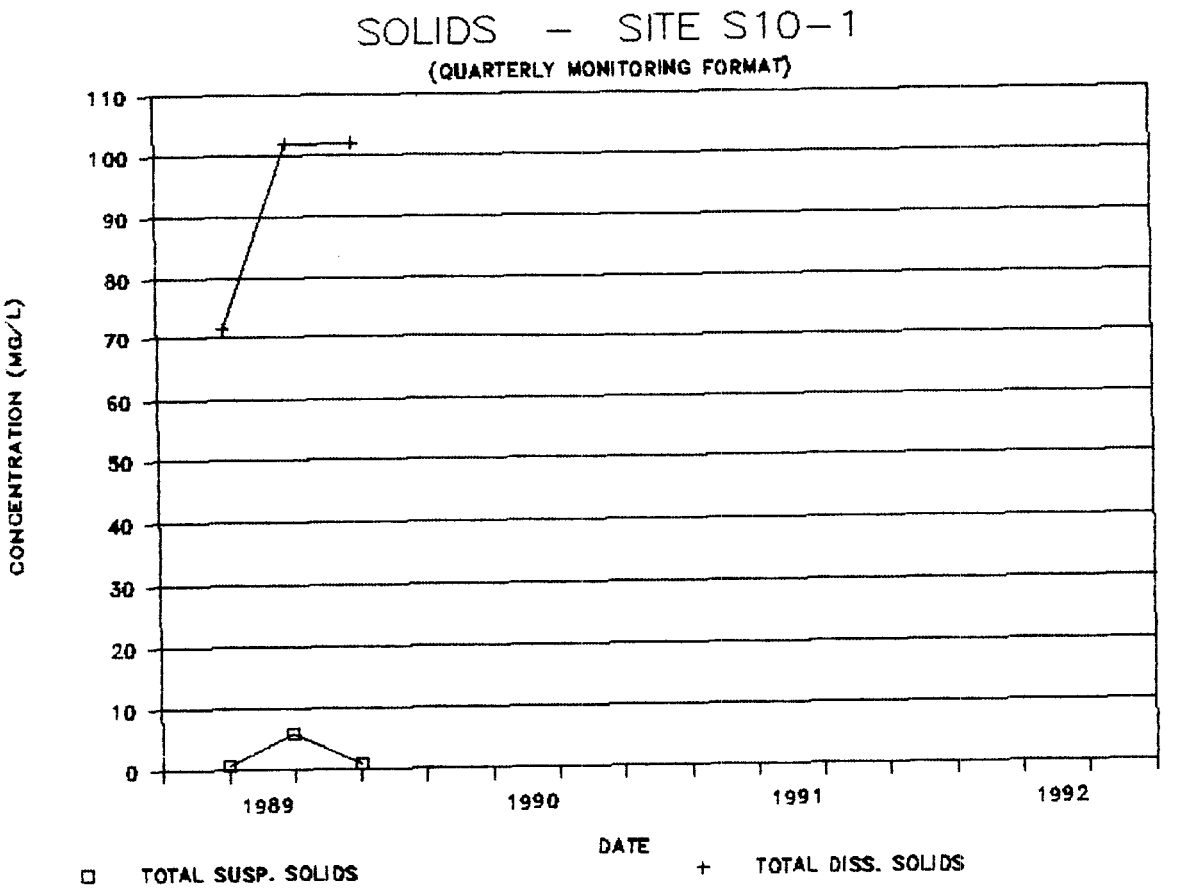

pH – SITE S10–1
pH (S U)
8.6
8.4
8.2
8
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4
6.2
6
1981
1982
1983
1984
DATE


pH – SITE S10–1
pH (S U)
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
1985
1986
1987
1988
DATE

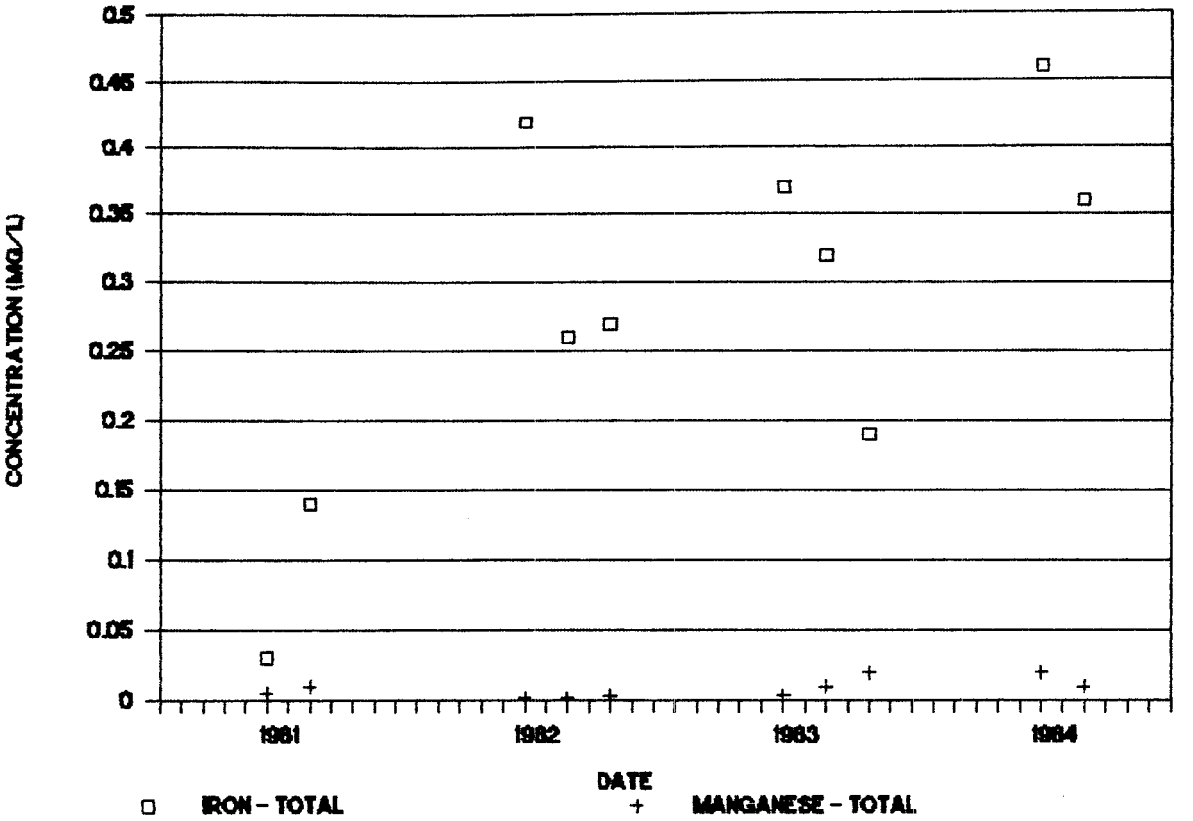

SOLIDS — SITE S10-1
CONCENTRATION (MG/L)
120
110
100
90
80
70
60
50
40
30
20
10
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


SOLIDS — SITE S10-1
CONCENTRATION (MG/L)
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

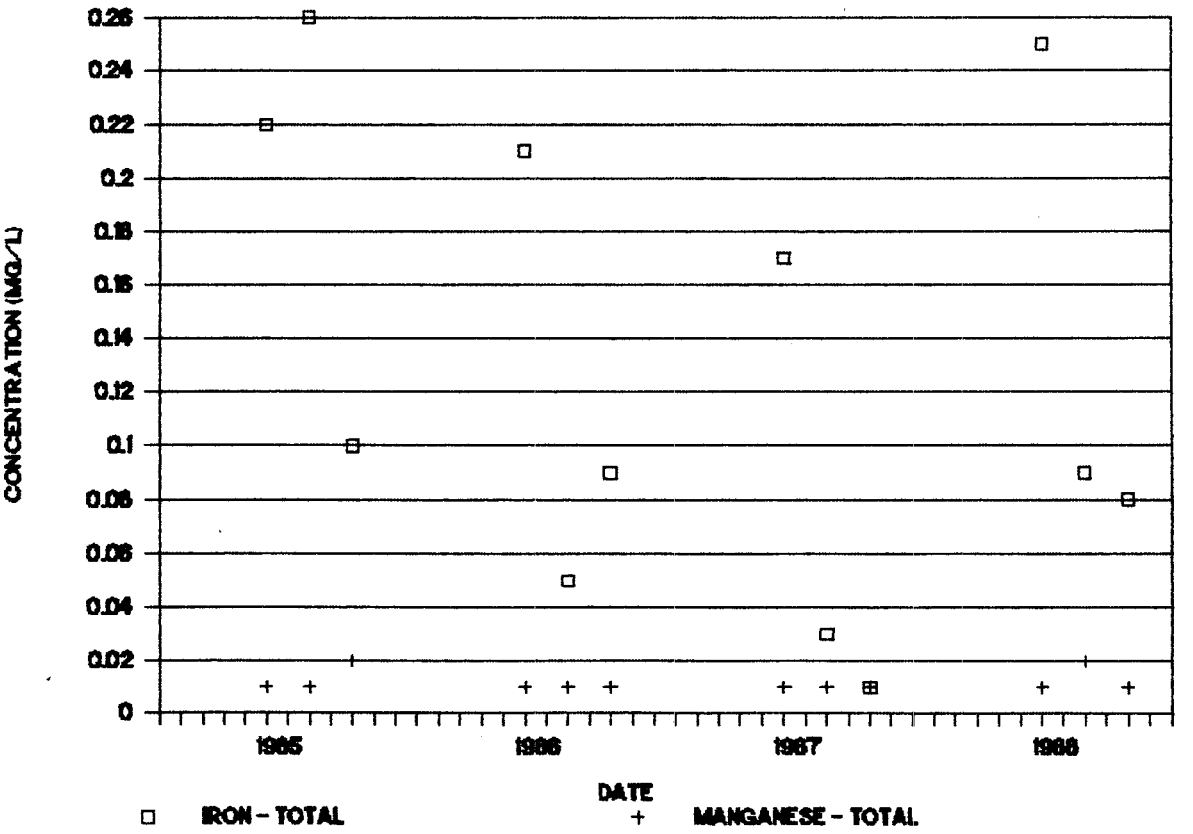

pH - SITE S10-1
(QUARTERLY MONITORING FORMAT)
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
pH (SU)
1989
1990
1991
1992
DATE

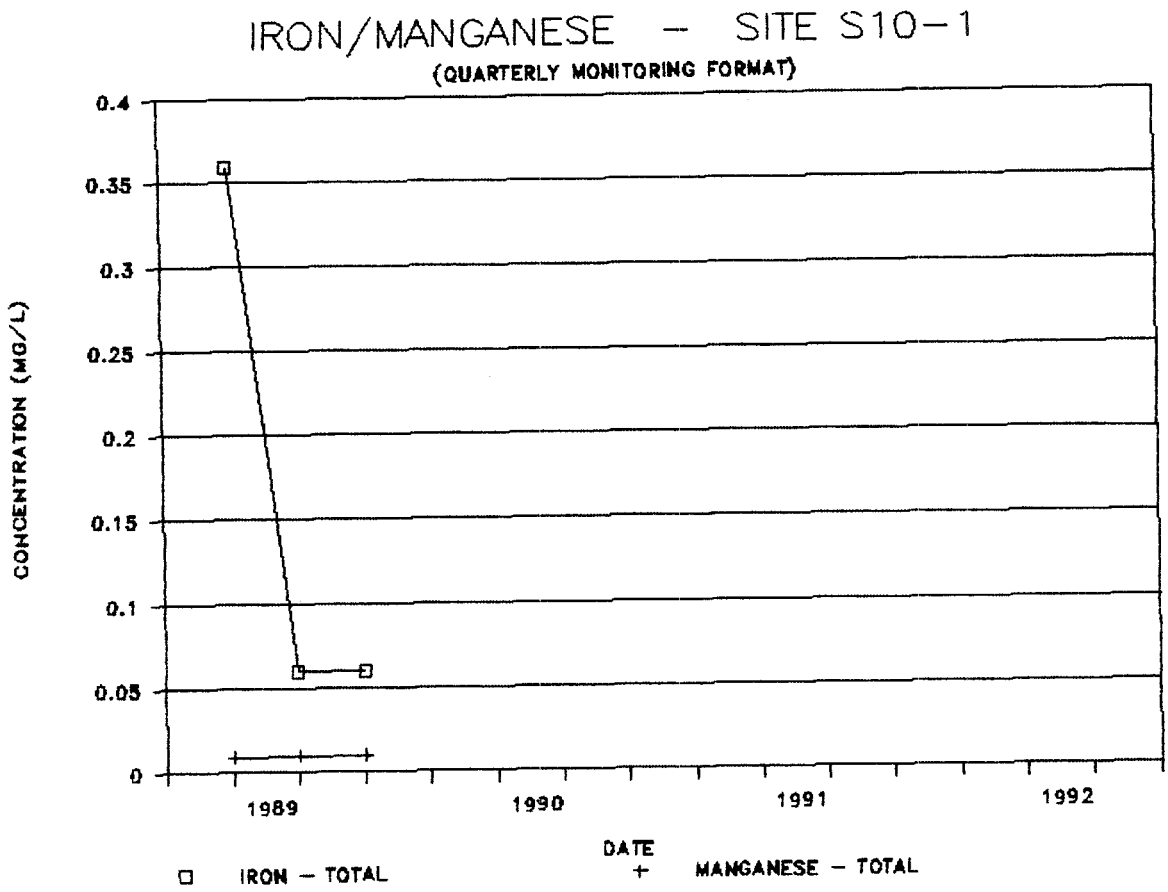

SOLIDS - SITE S10-1
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
110
100
90
80
70
60
50
40
30
20
10
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

IRON/MANGANESE – SITE S10–1

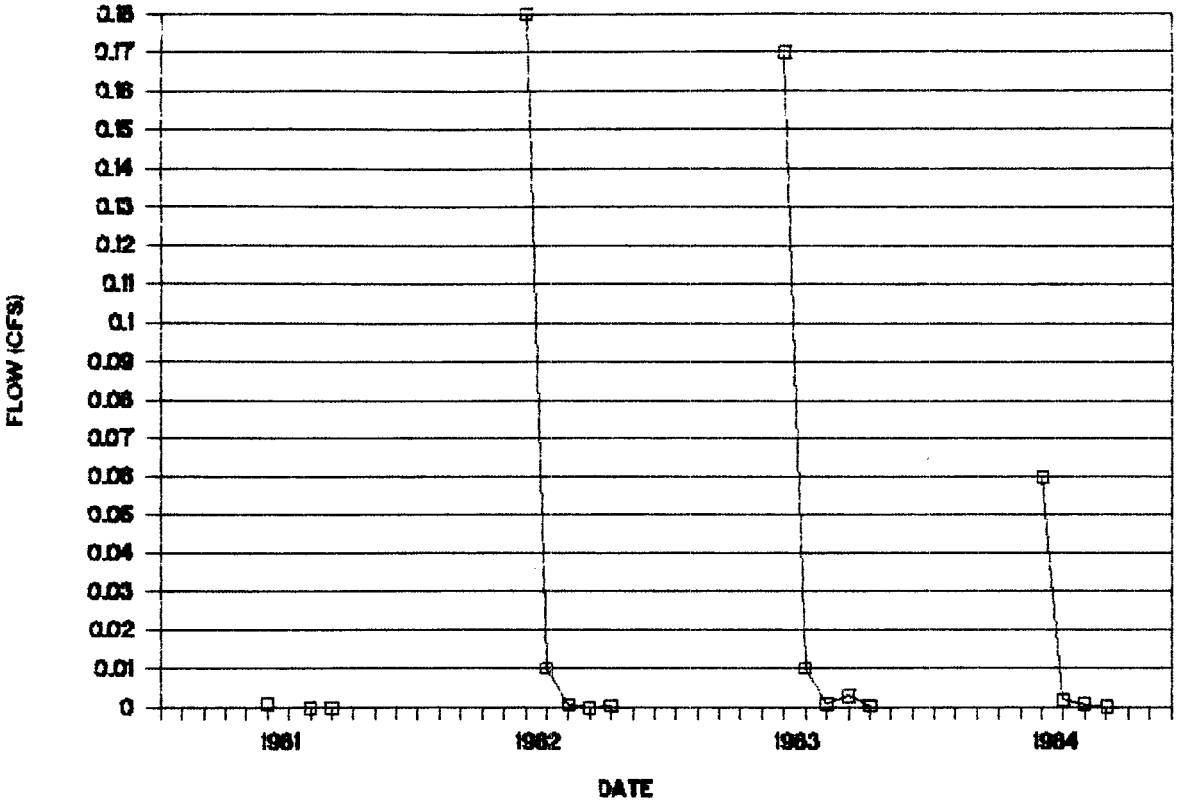


IRON/MANGANESE – SITE S10–1

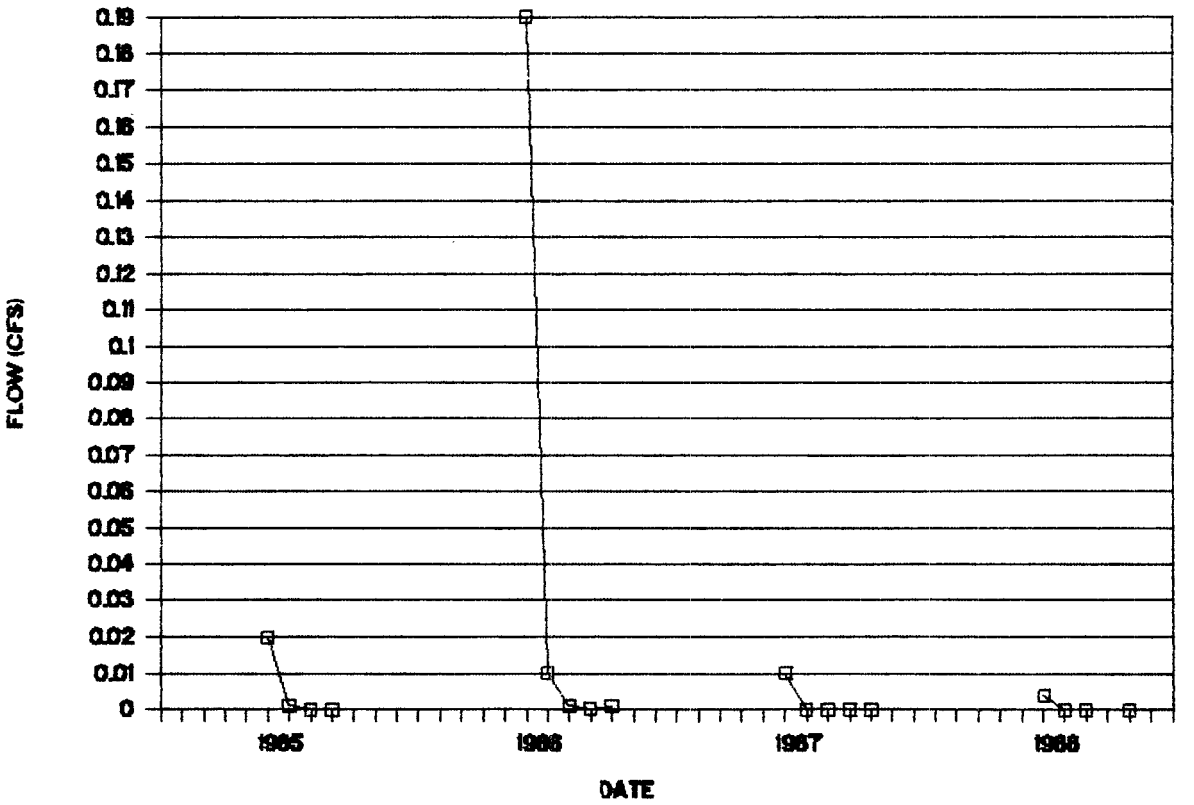


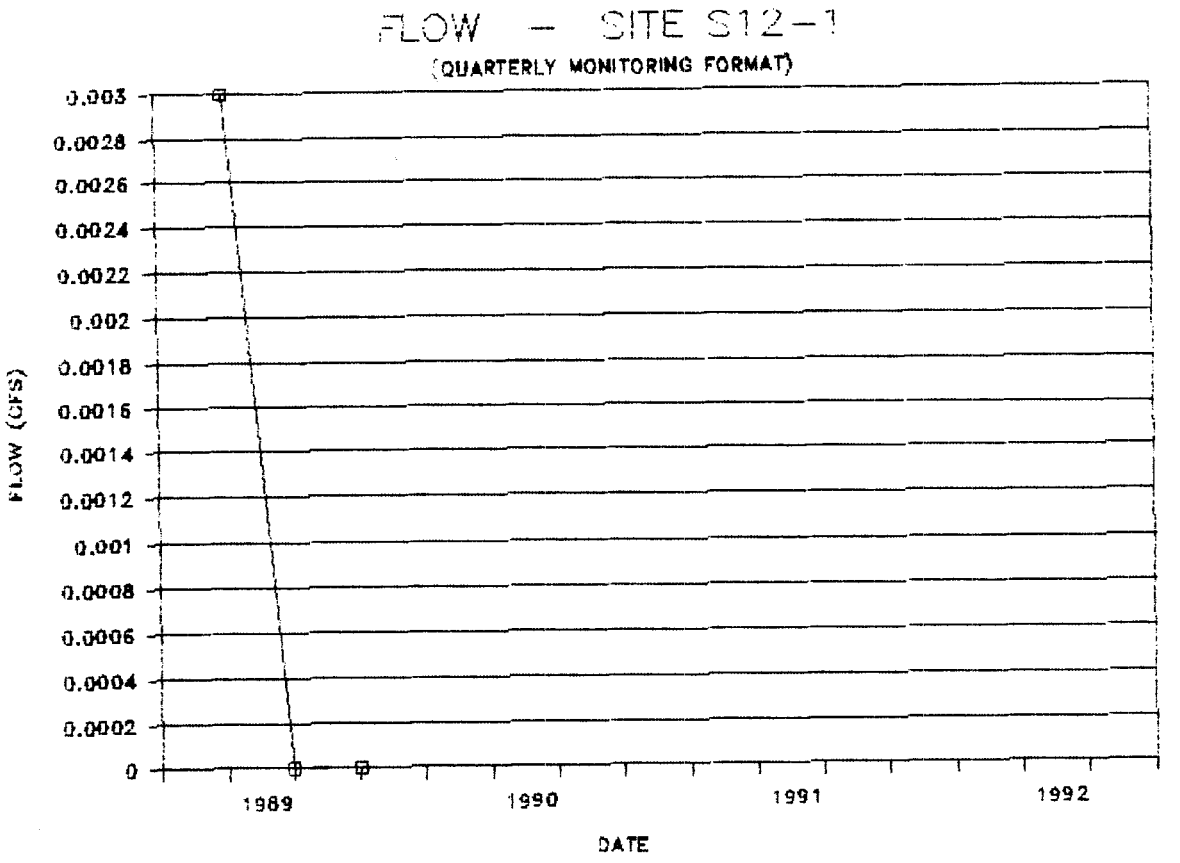

IRON/MANGANESE - SITE S10-1
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

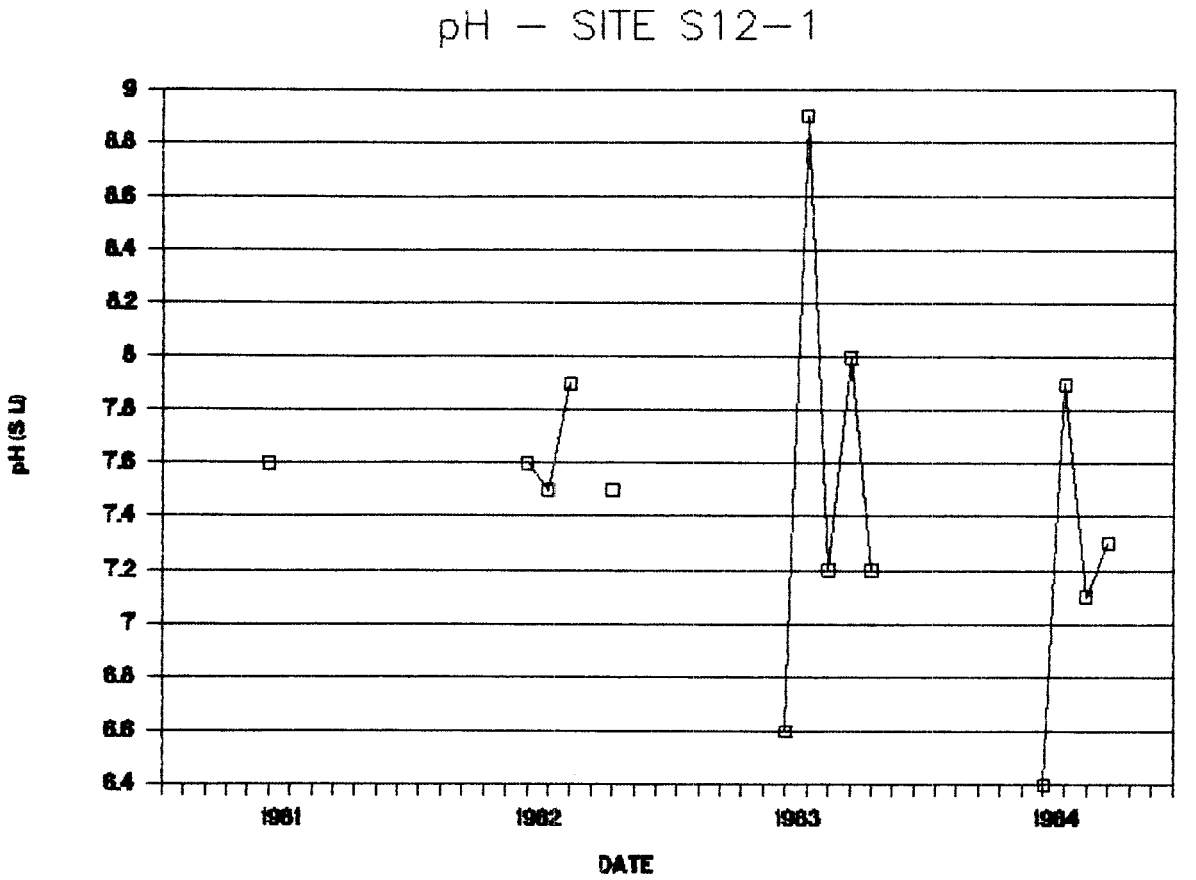
FLOW — SITE S12—1

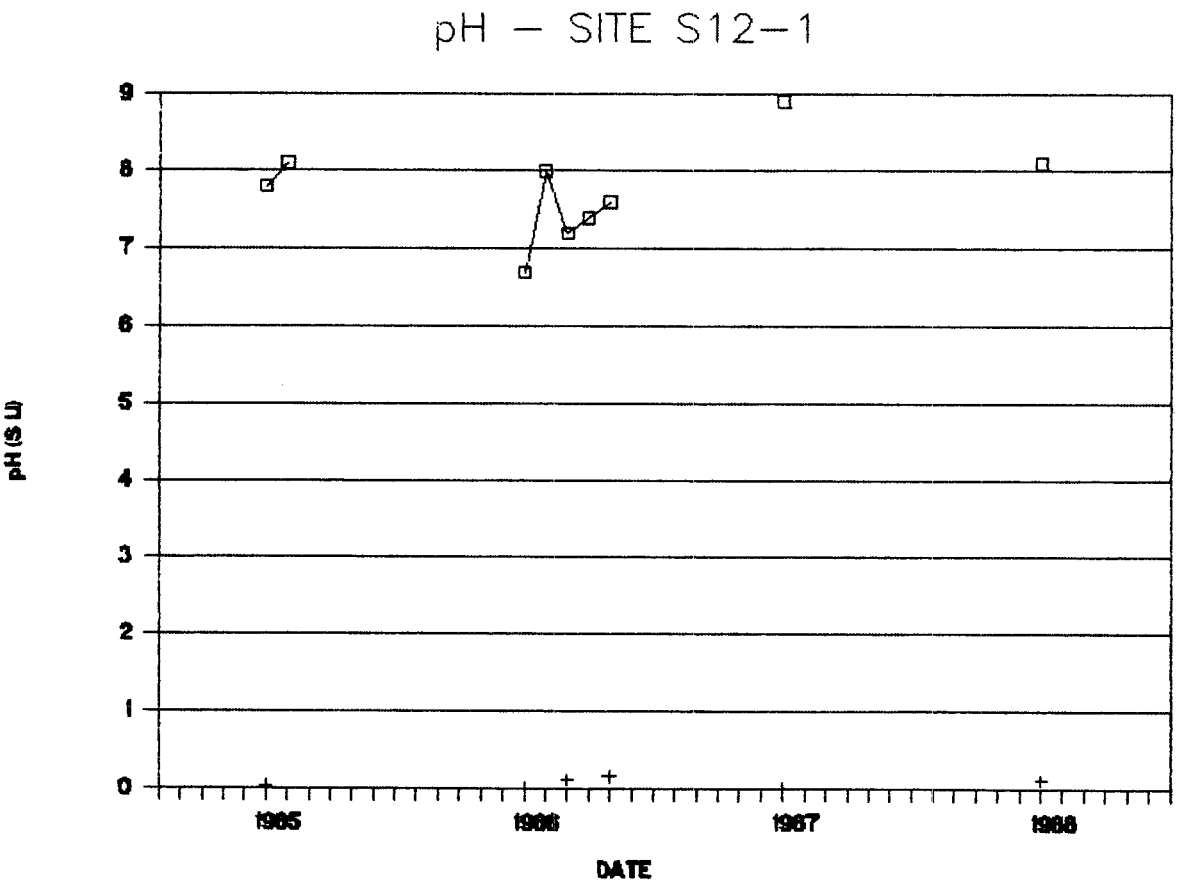


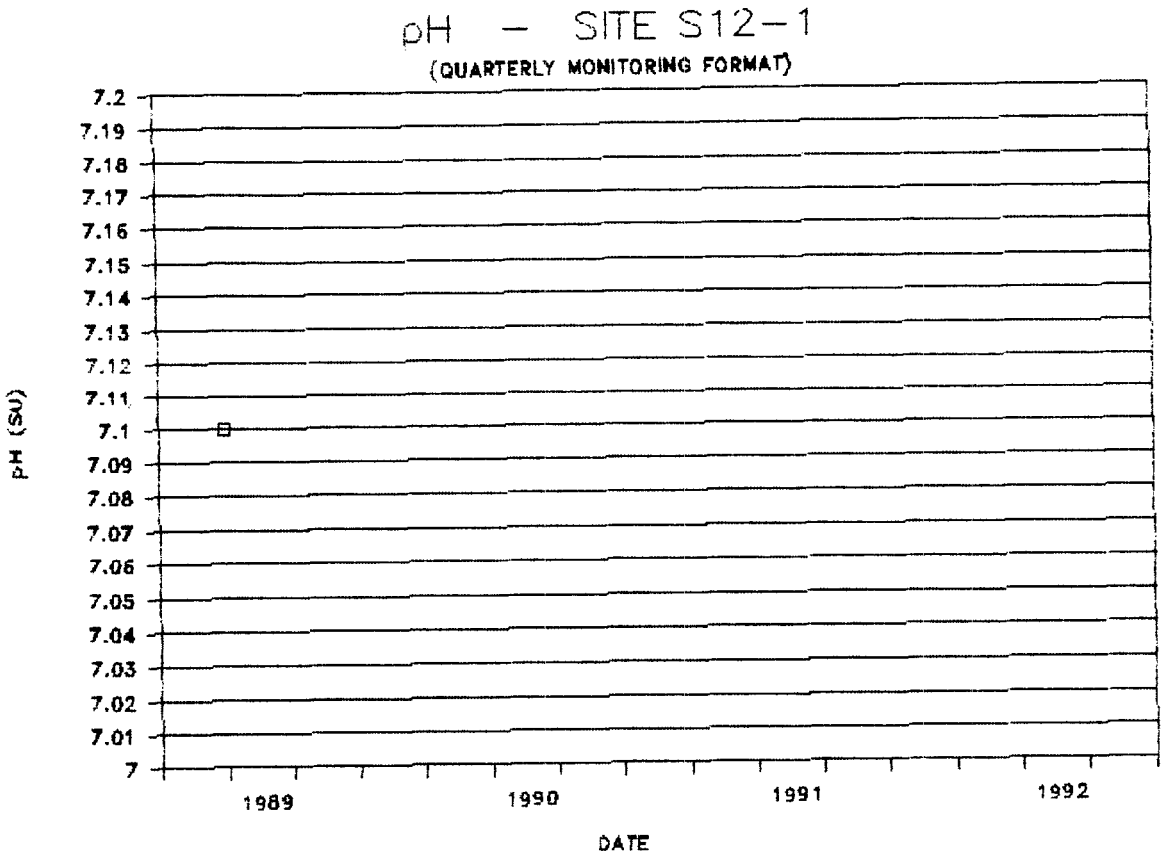
FLOW — SITE S12—1

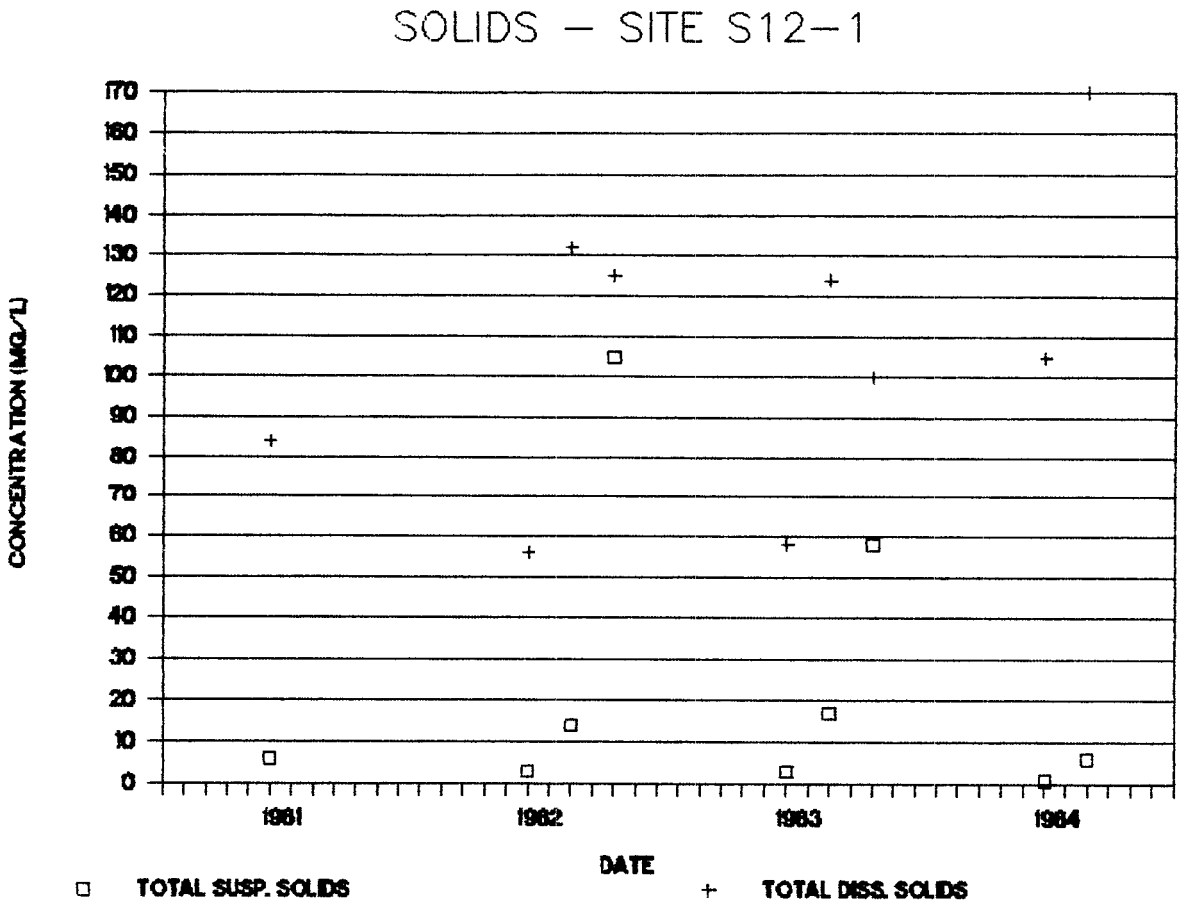


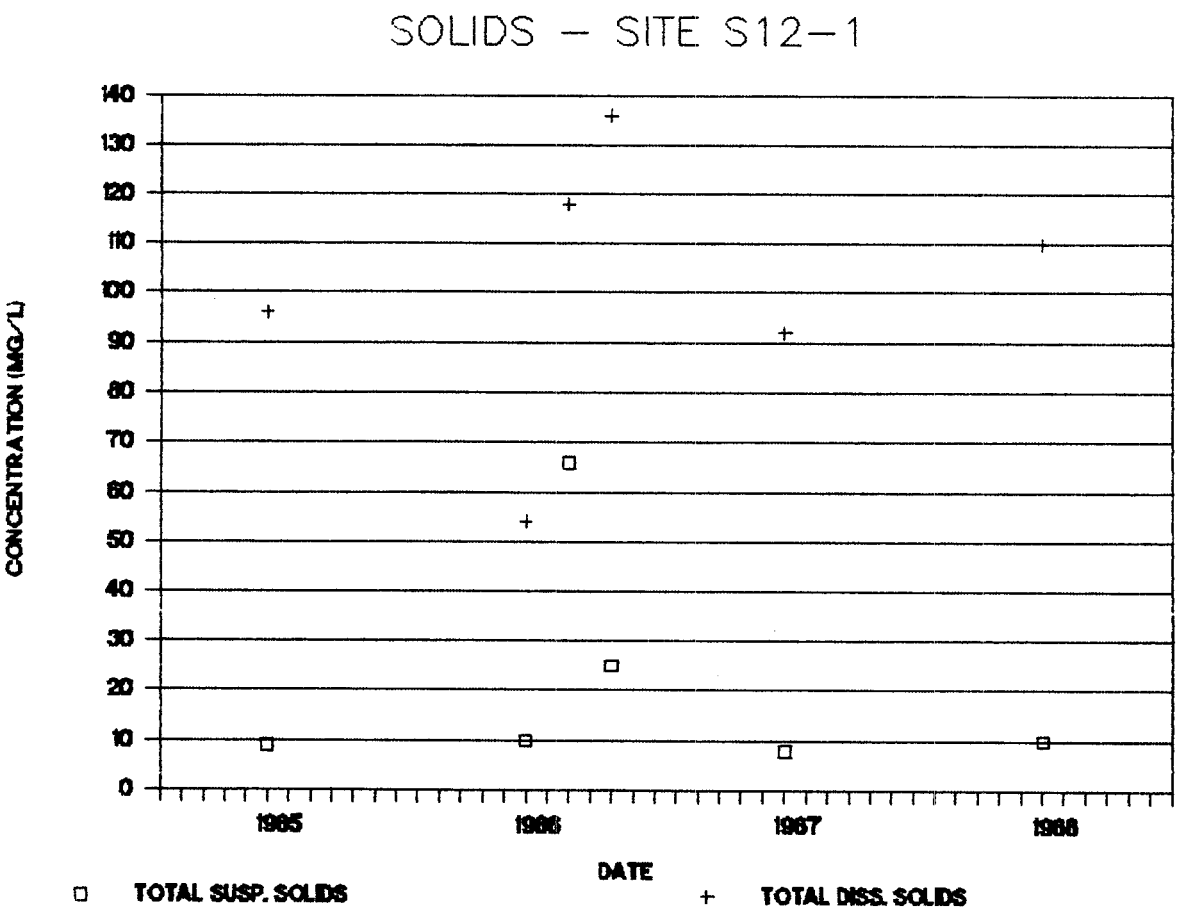

FLOW - SITE S12-1
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
1989
1990
1991
1992
DATE

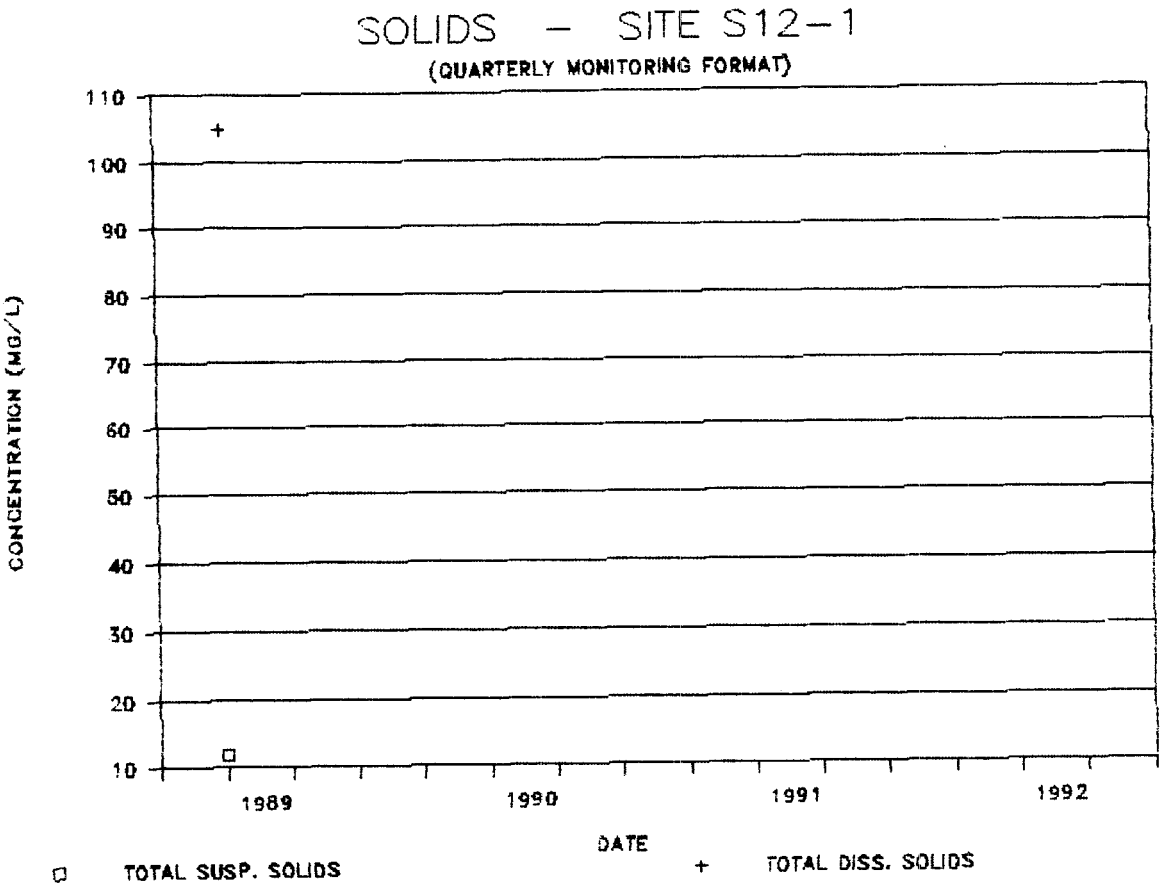

pH – SITE S12–1
pH (S U)
9
8.8
8.6
8.4
8.2
8
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4
1981
1982
1983
1984
DATE

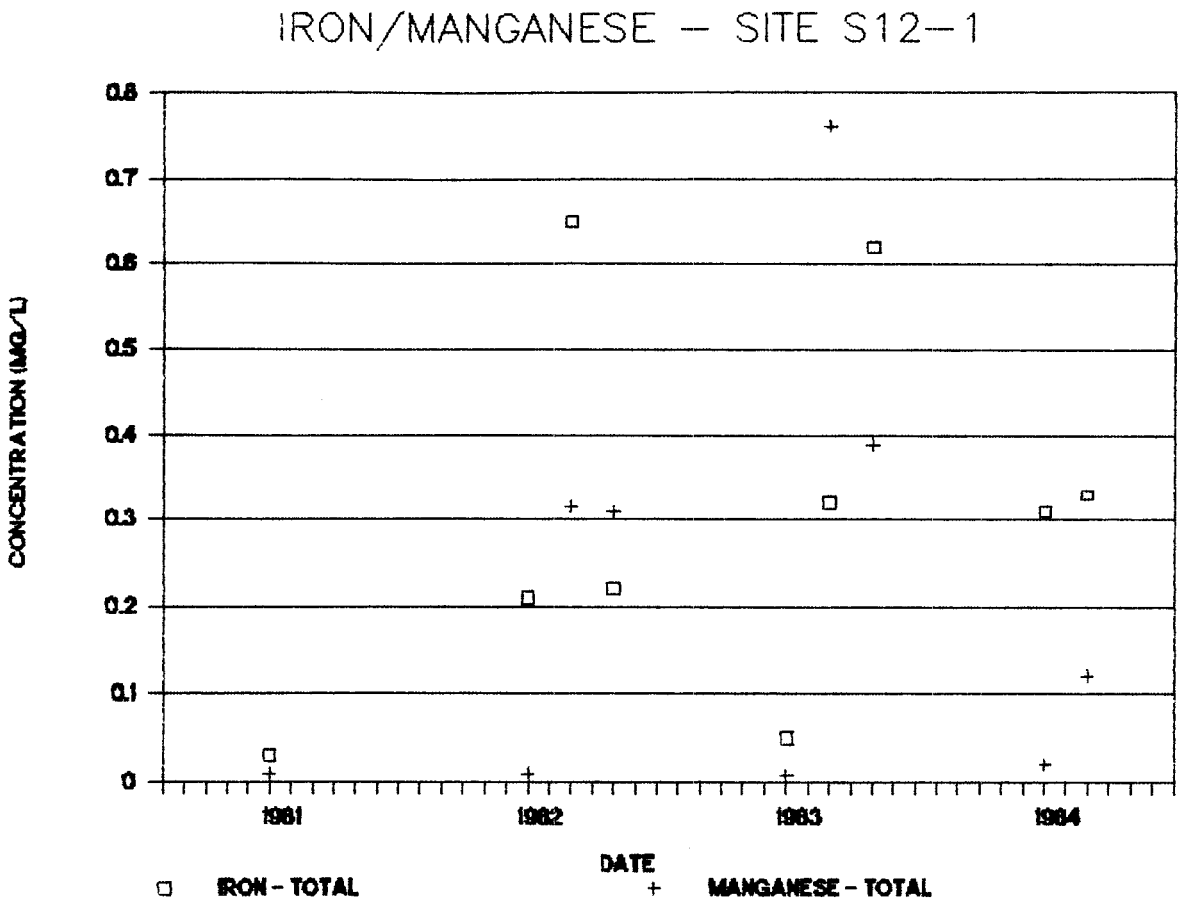

pH – SITE S12–1
pH (S U)
9
8
7
6
5
4
3
2
1
0
1985
1986
1987
1988
DATE

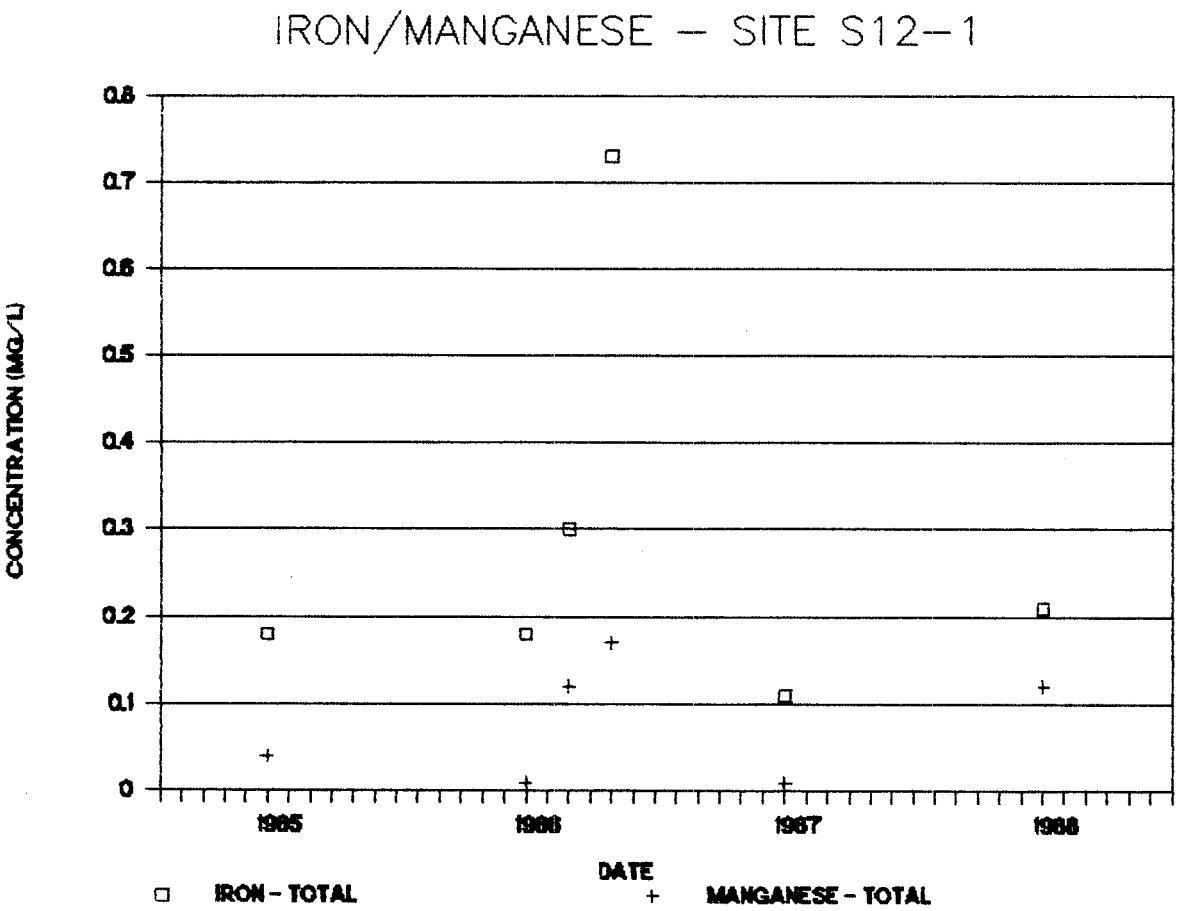

pH - SITE S12-1
(QUARTERLY MONITORING FORMAT)
pH (SU)
7.2
7.19
7.18
7.17
7.16
7.15
7.14
7.13
7.12
7.11
7.1
7.09
7.08
7.07
7.06
7.05
7.04
7.03
7.02
7.01
7
1989
1990
1991
1992
DATE

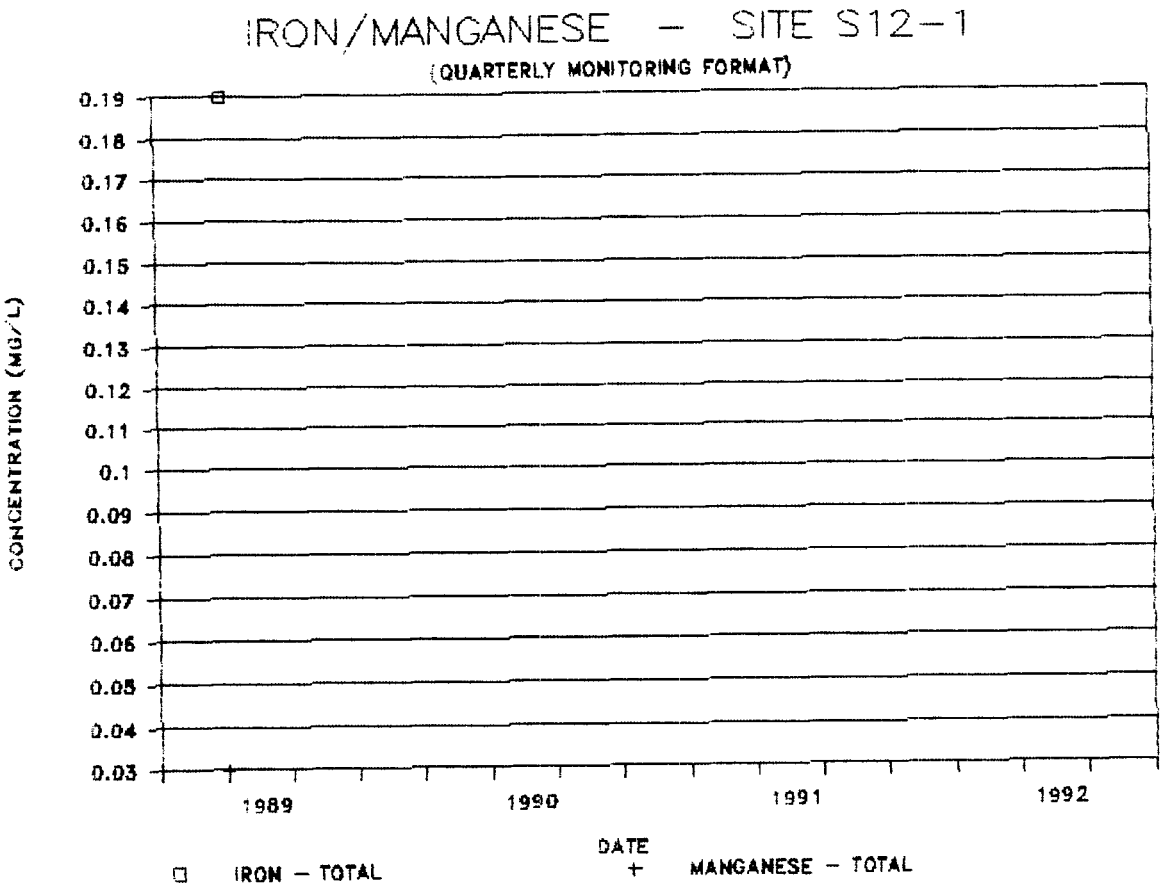

SOLIDS – SITE S12-1
CONCENTRATION (MG/L)
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


SOLIDS – SITE S12-1
CONCENTRATION (MG/L)
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

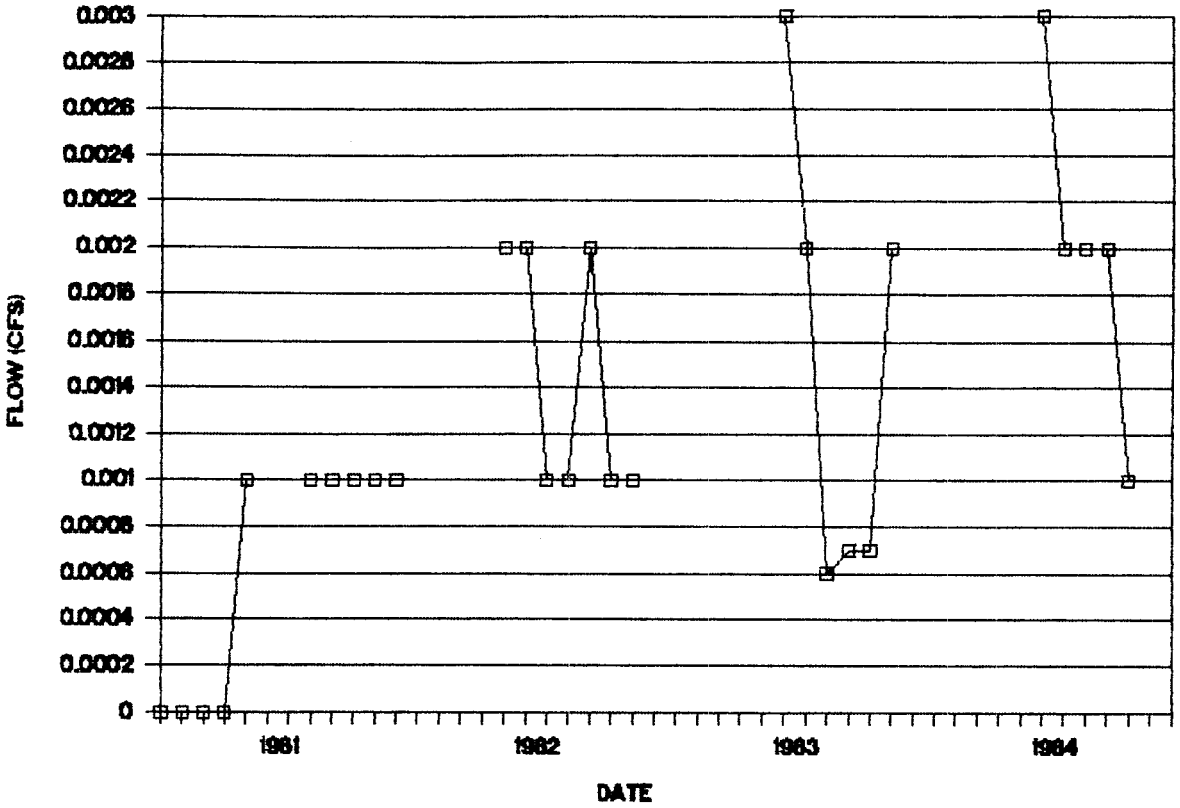

SOLIDS - SITE S12-1
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
110
100
90
80
70
60
50
40
30
20
10
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


IRON/MANGANESE – SITE S12–1
CONCENTRATION (MG/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1981
1982
1983
1984
DATE
IRON - TOTAL
MANGANESE - TOTAL

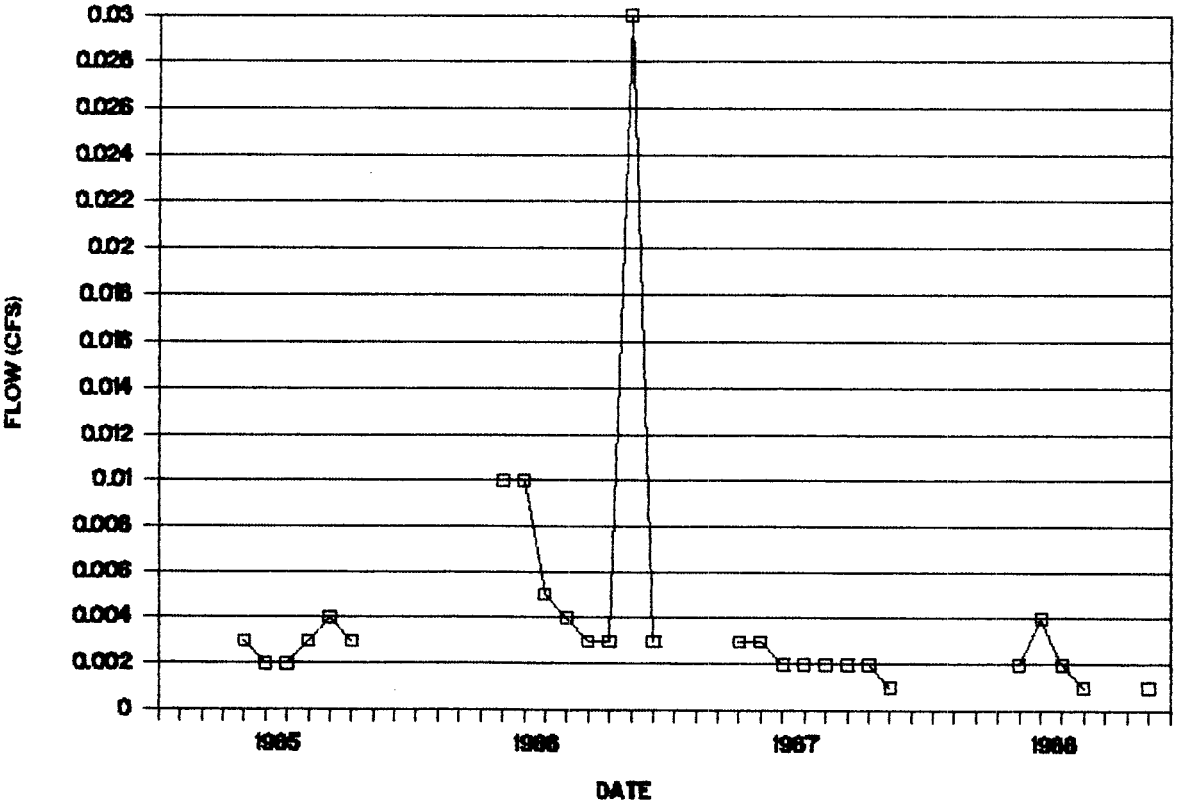

IRON/MANGANESE – SITE S12–1
CONCENTRATION (MG/L)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1985
1986
1987
1988
DATE
IRON - TOTAL
MANGANESE - TOTAL

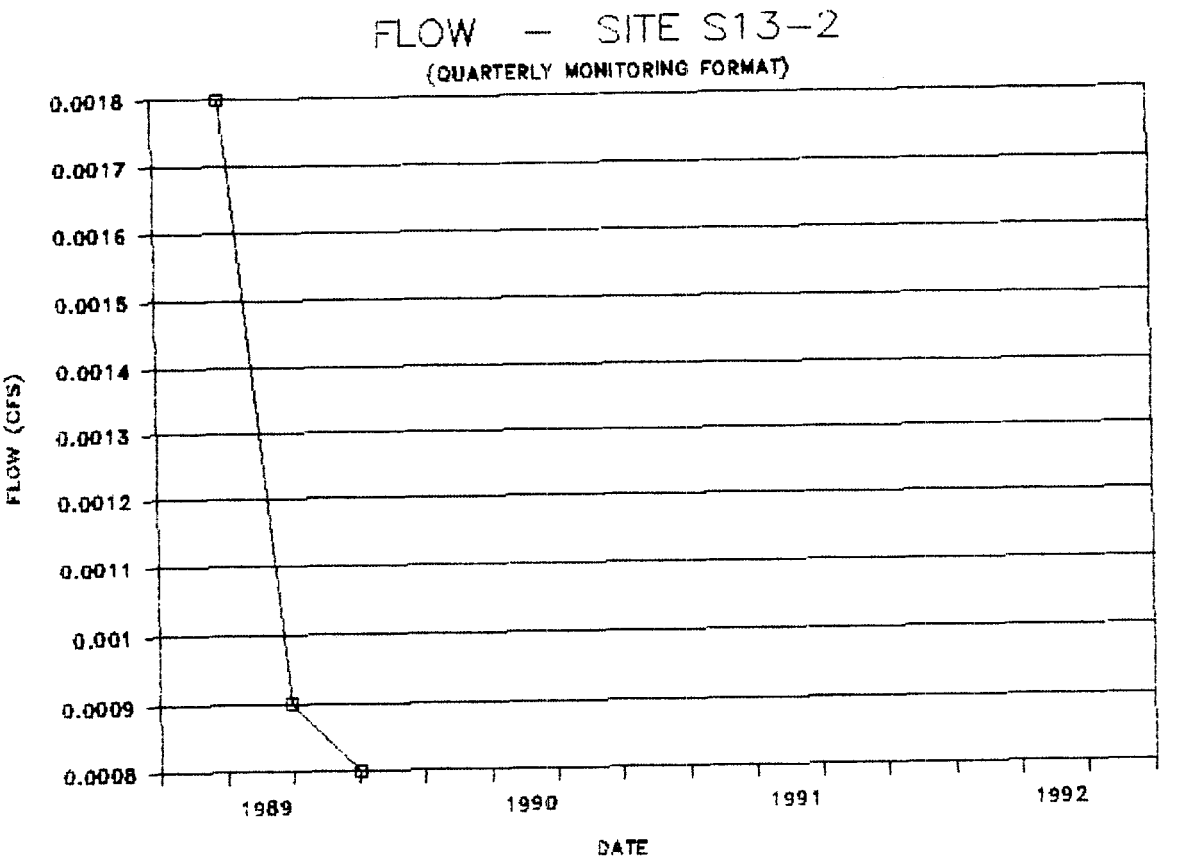

IRON/MANGANESE - SITE S12-1
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

FLOW – SITE S13–2

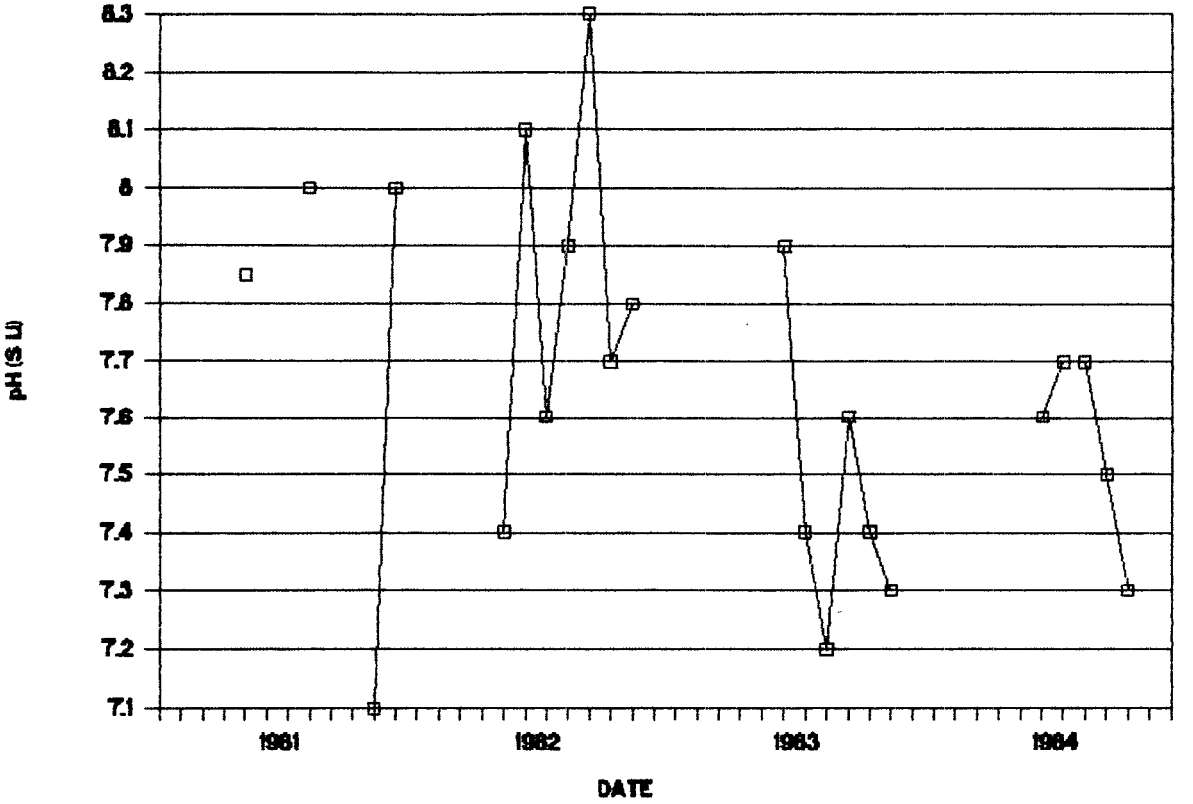


FLOW – SITE S13–2

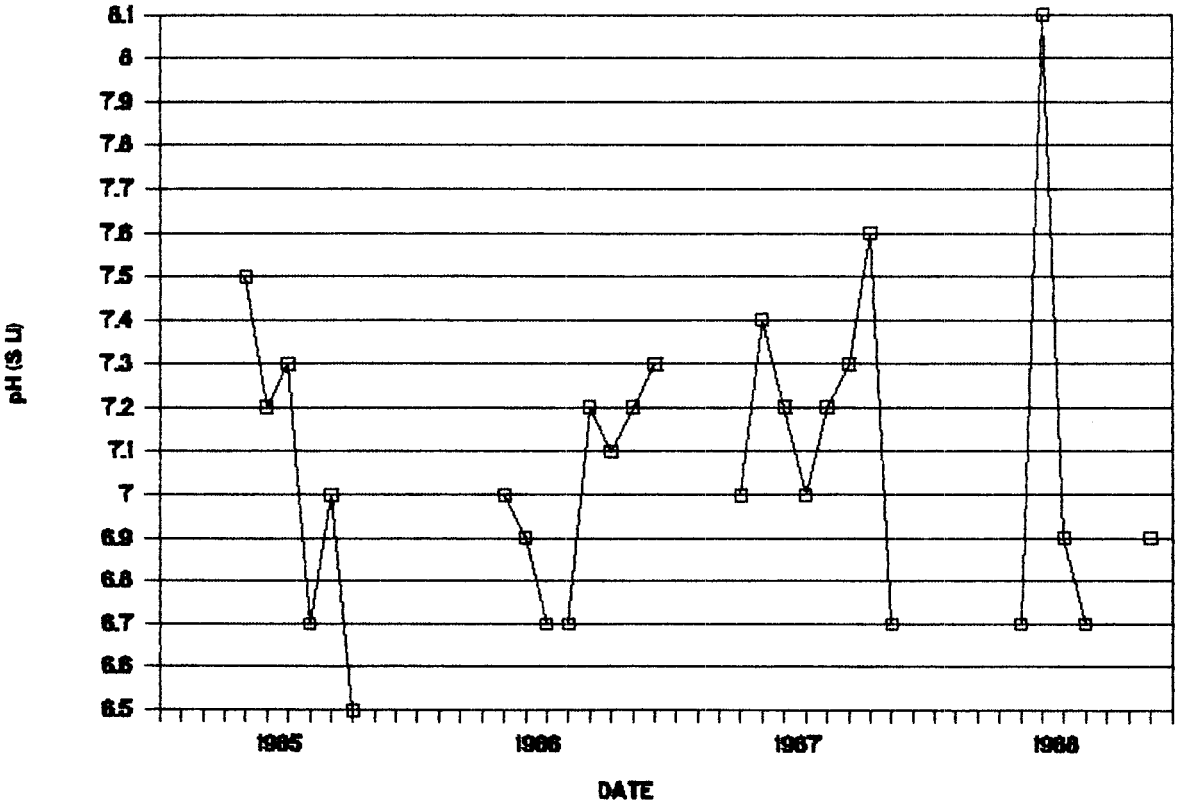


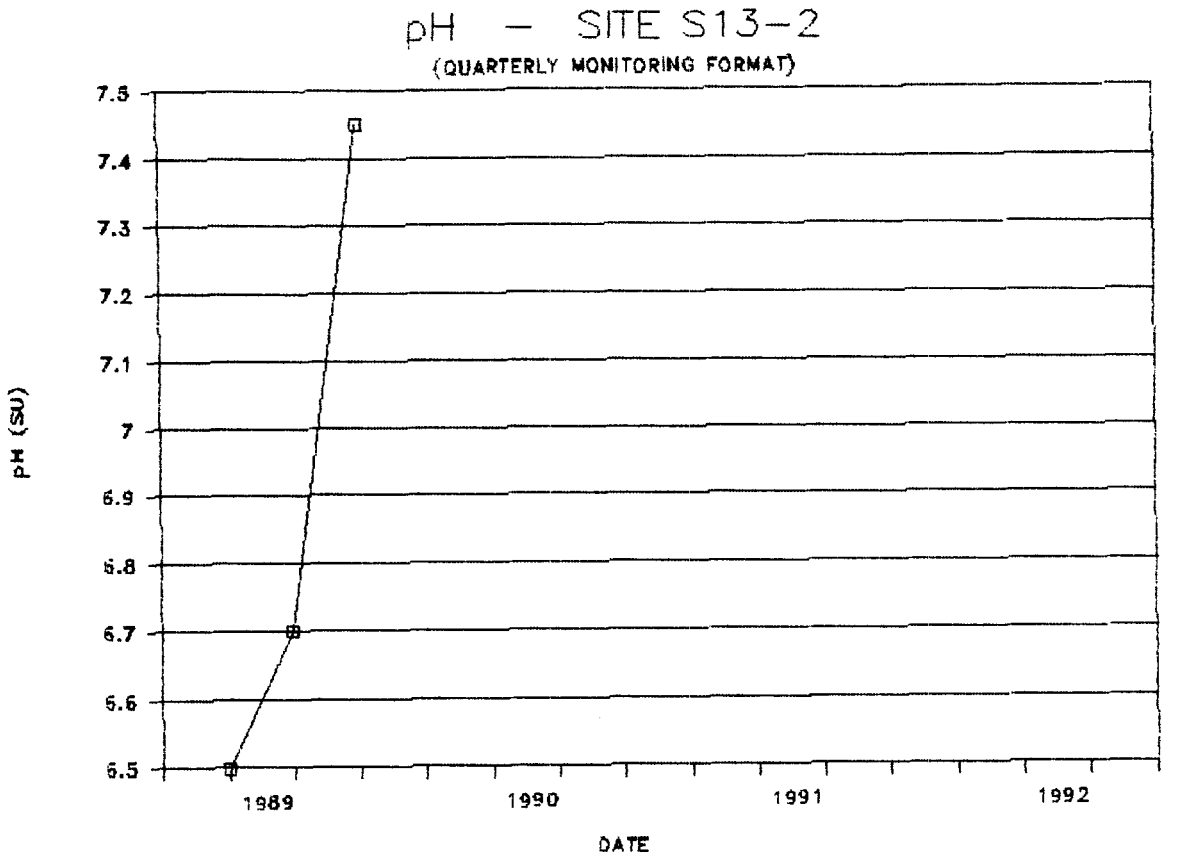

FLOW — SITE S13-2
(QUARTERLY MONITORING FORMAT)
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
FLOW (CFS)
1989
1990
1991
1992
DATE

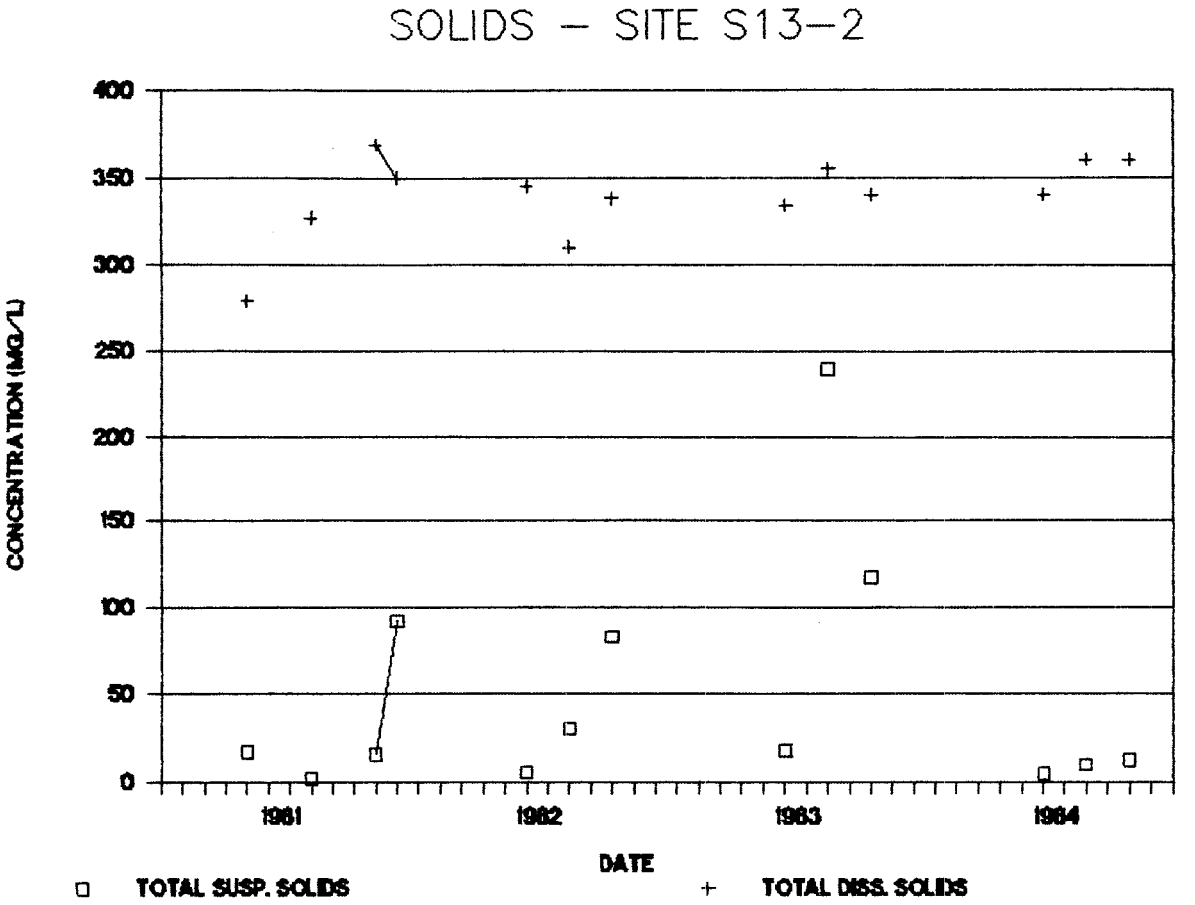
pH – SITE S13–2

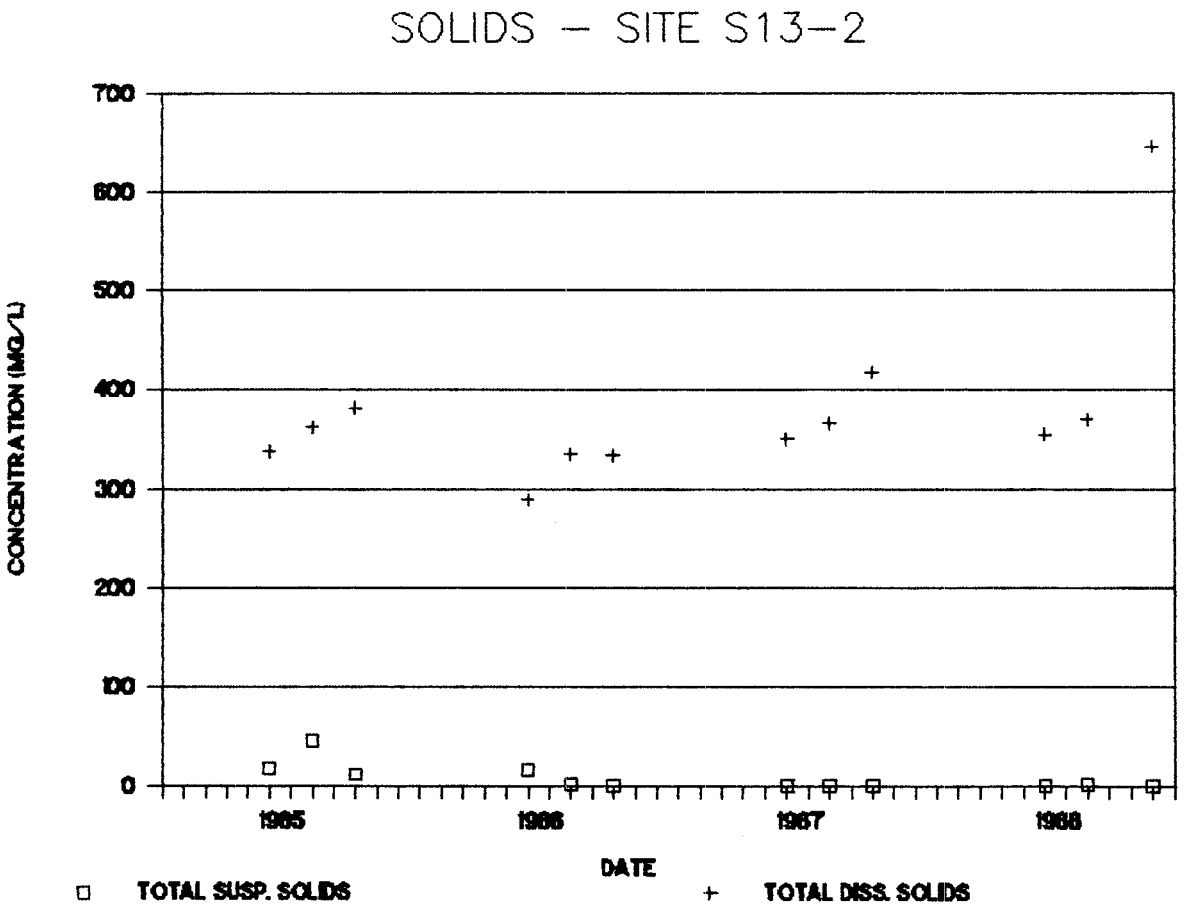


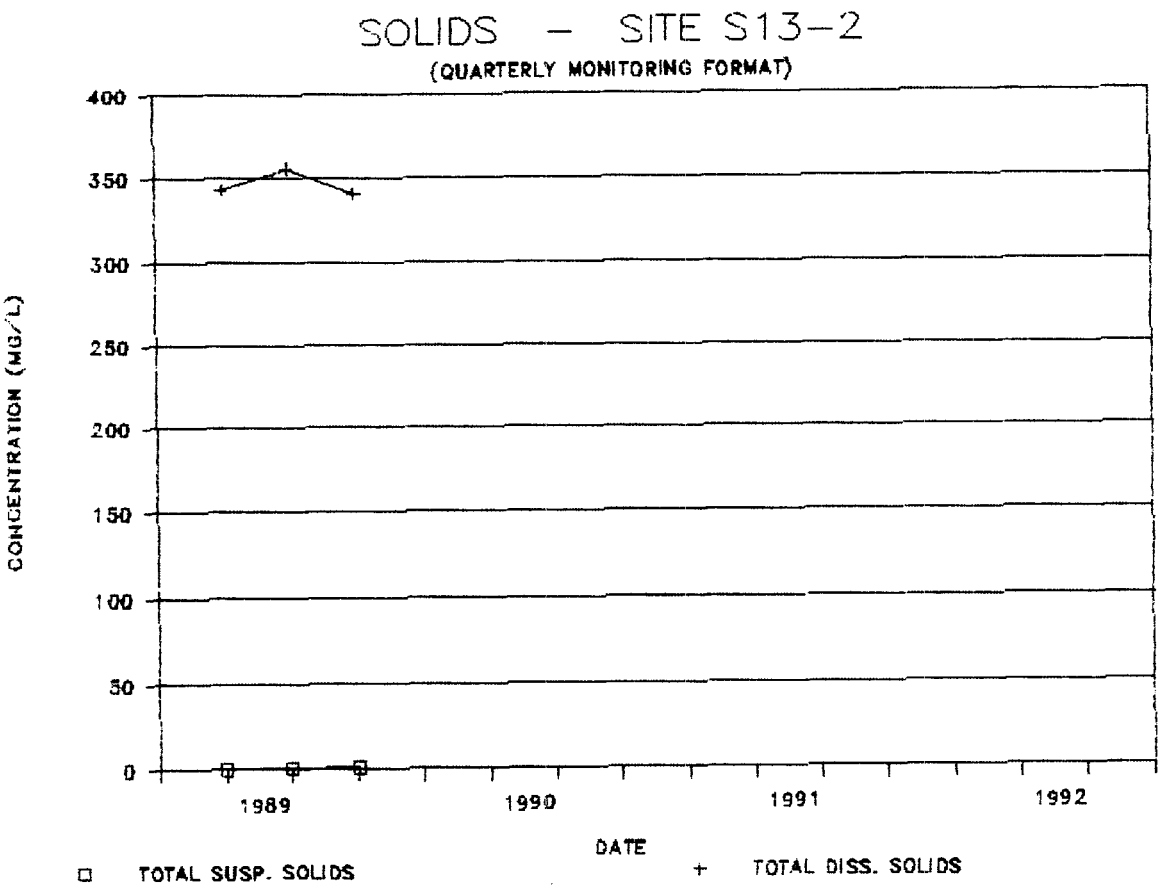
pH – SITE S13–2



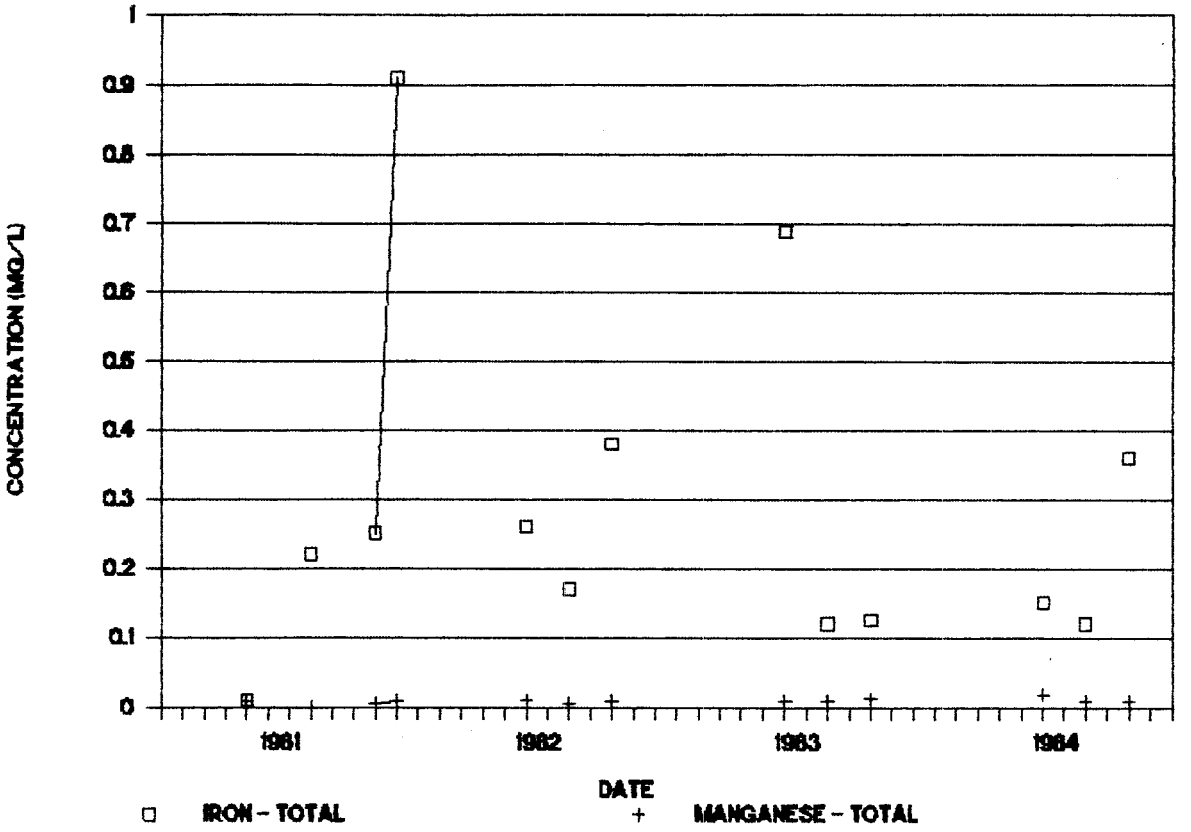

pH - SITE S13-2
(QUARTERLY MONITORING FORMAT)
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
pH (SU)
1989
1990
1991
1992
DATE


SOLIDS – SITE S13–2
CONCENTRATION (MG/L)
400
350
300
250
200
150
100
50
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

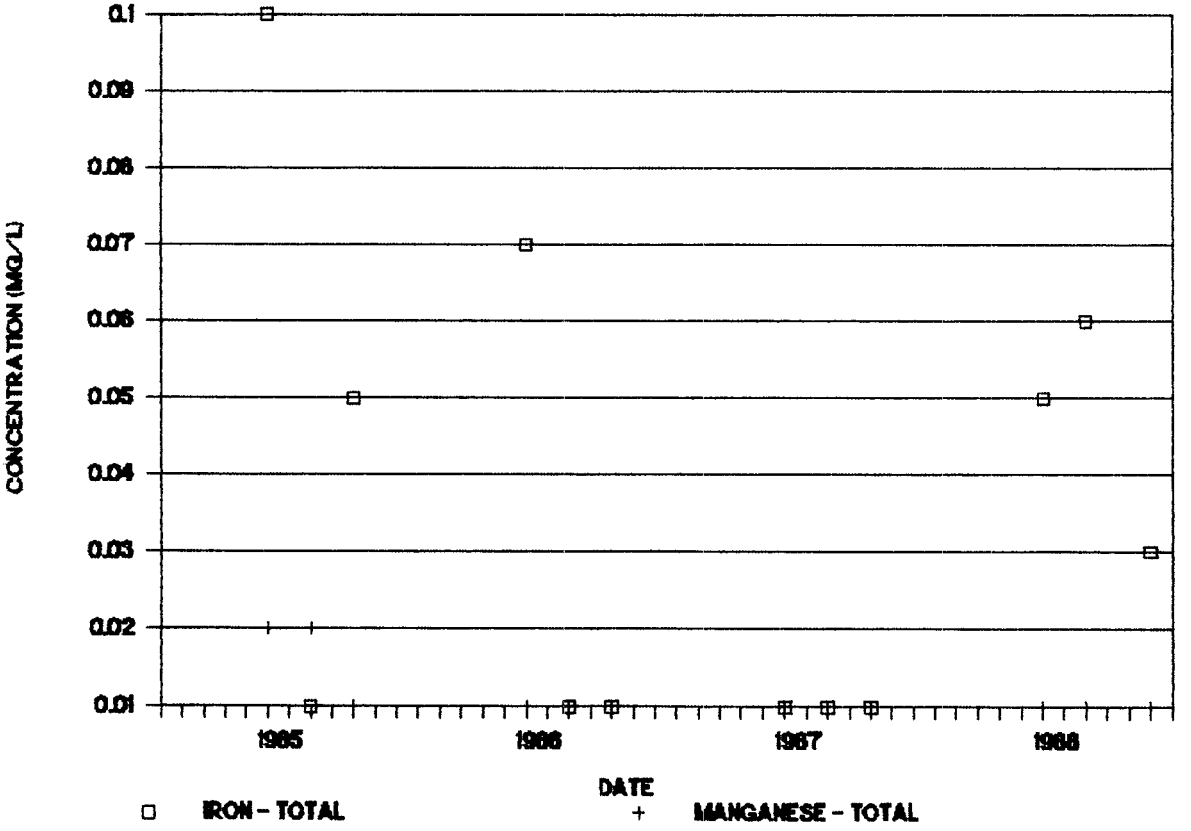

SOLIDS – SITE S13–2
CONCENTRATION (MG/L)
700
600
500
400
300
200
100
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

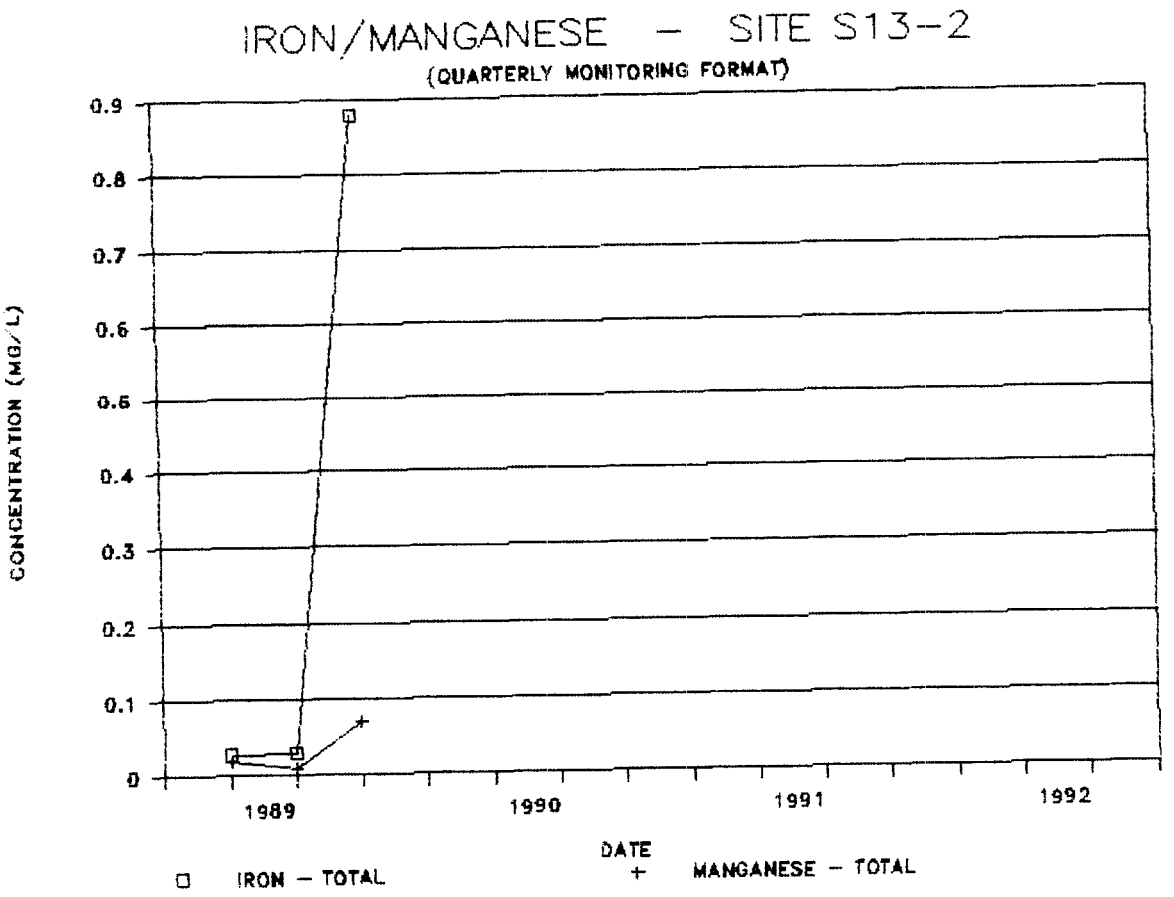

SOLIDS - SITE S13-2
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
400
350
300
250
200
150
100
50
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

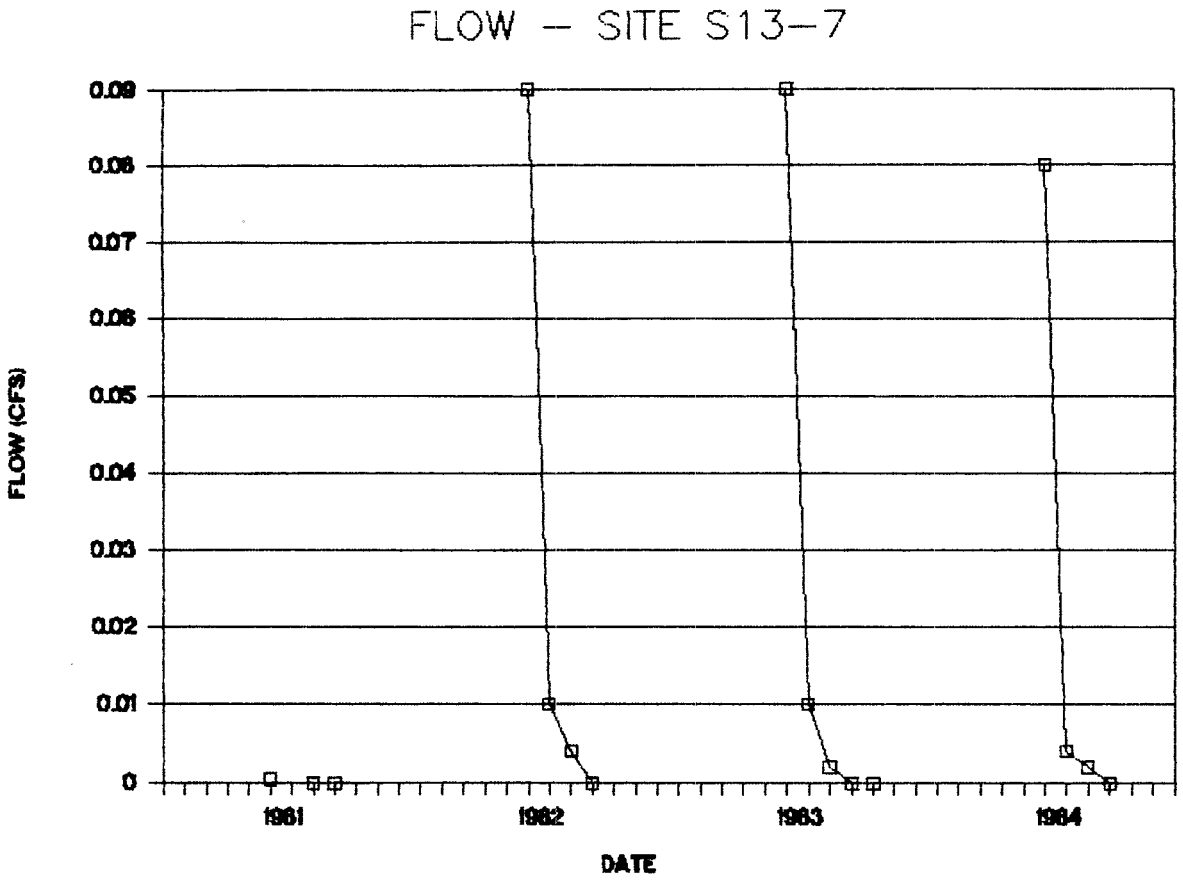
IRON/MANGANESE – SITE S13–2

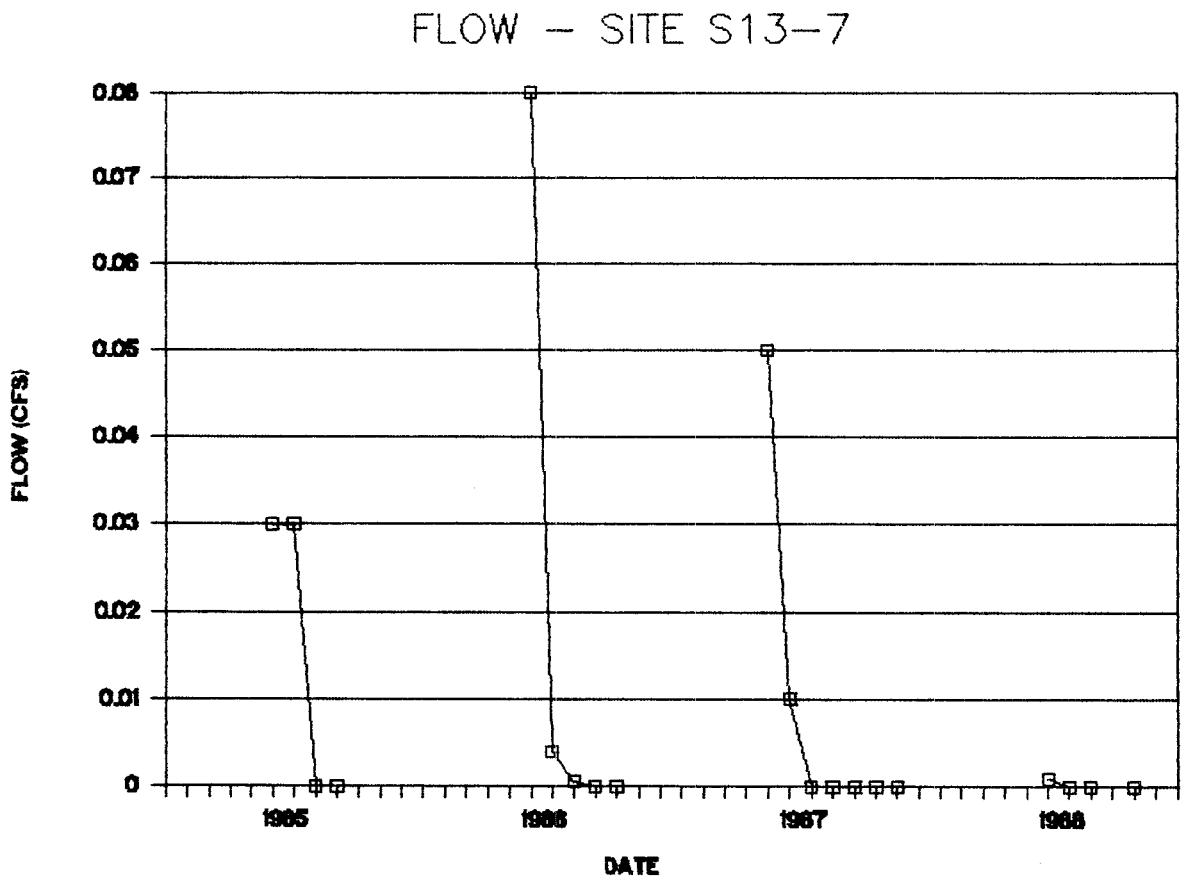


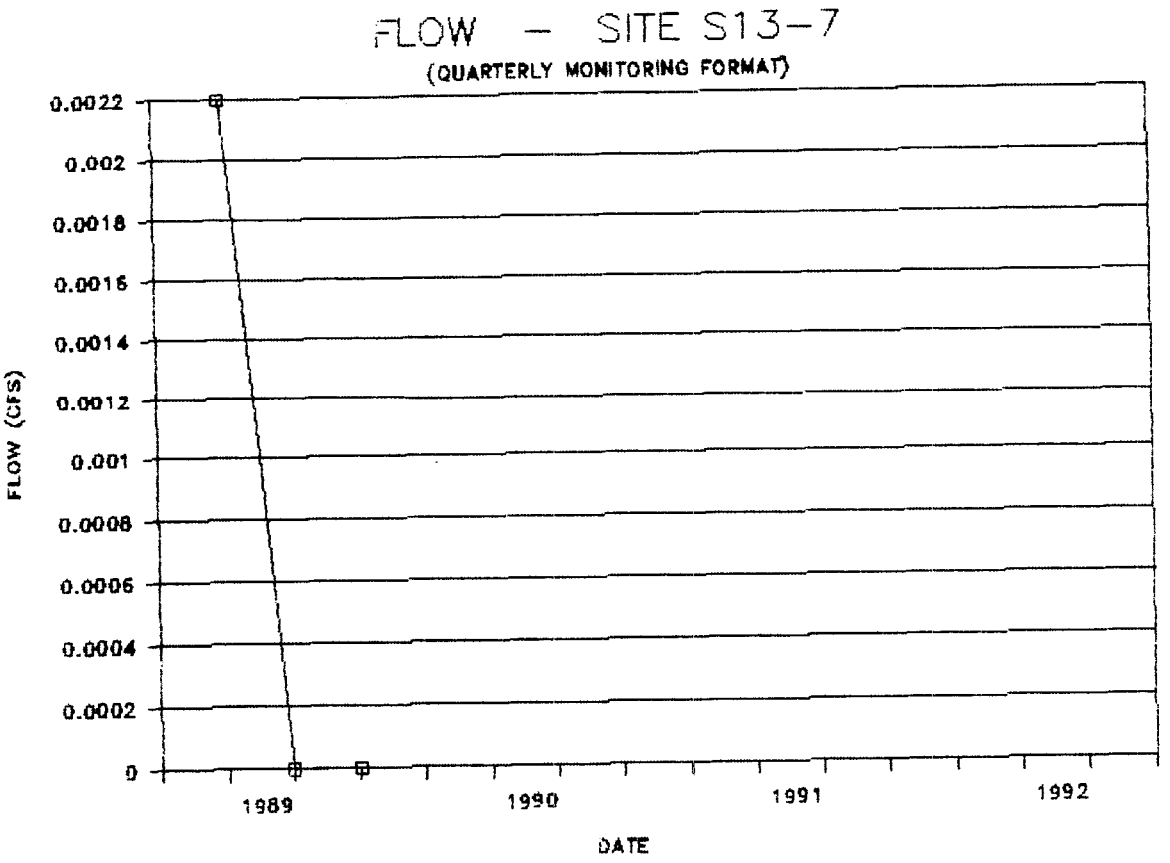
IRON/MANGANESE – SITE S13–2

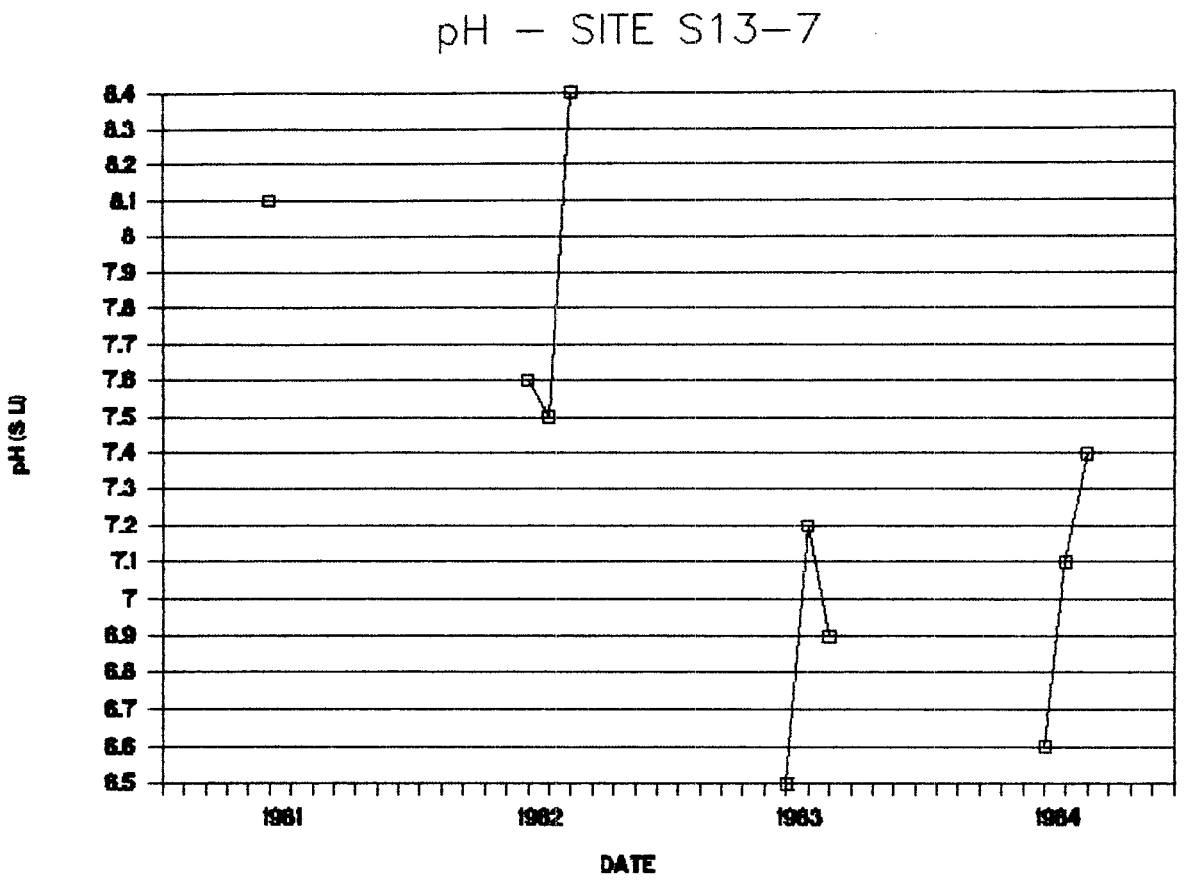


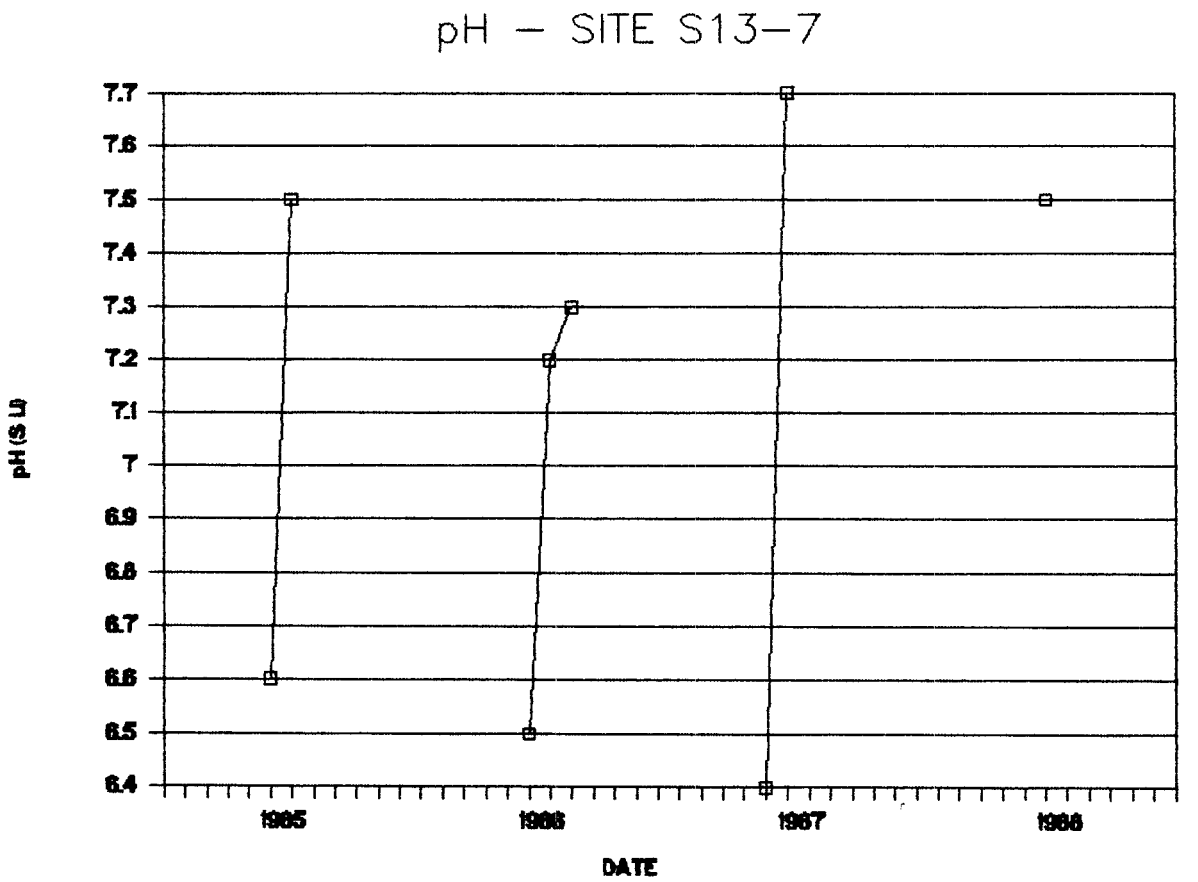

IRON/MANGANESE - SITE S13-2
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

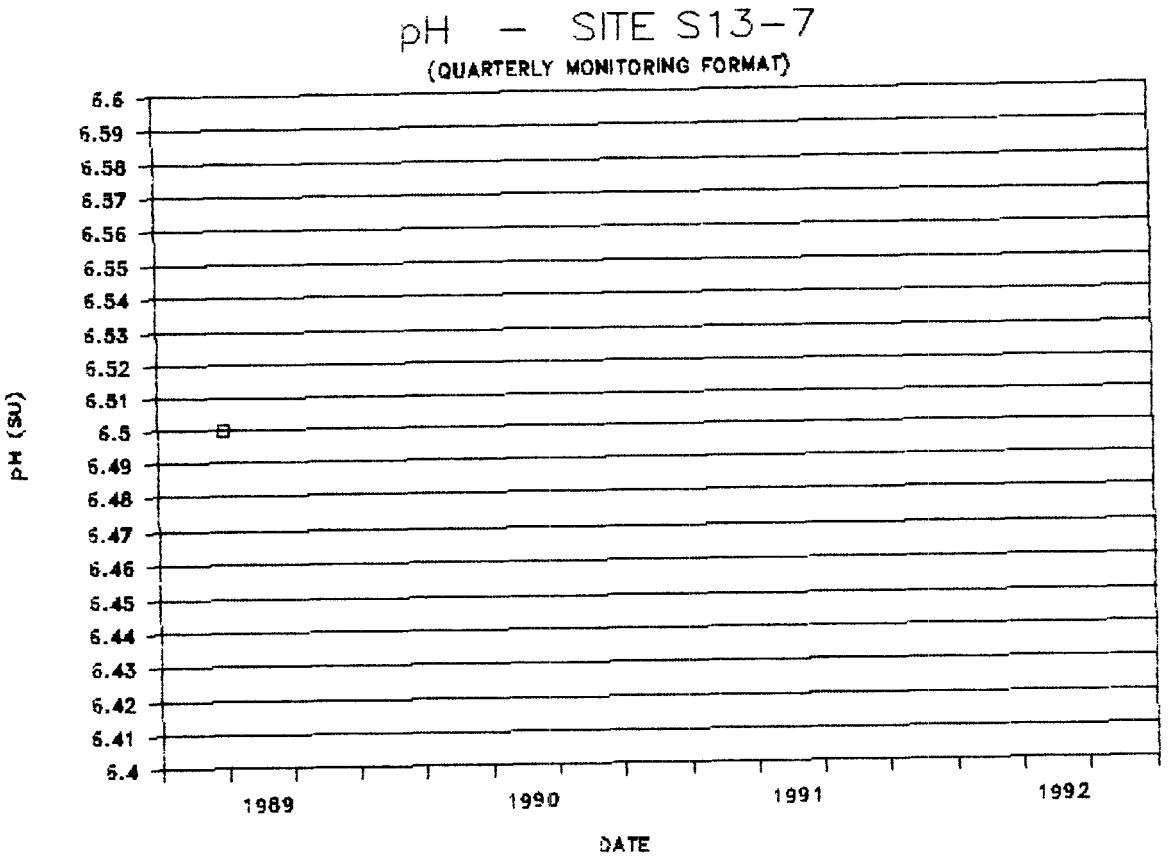

FLOW – SITE S13–7
FLOW (CFS)
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1981
1982
1983
1984
DATE


FLOW – SITE S13–7
FLOW (CFS)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1985
1986
1987
1988
DATE

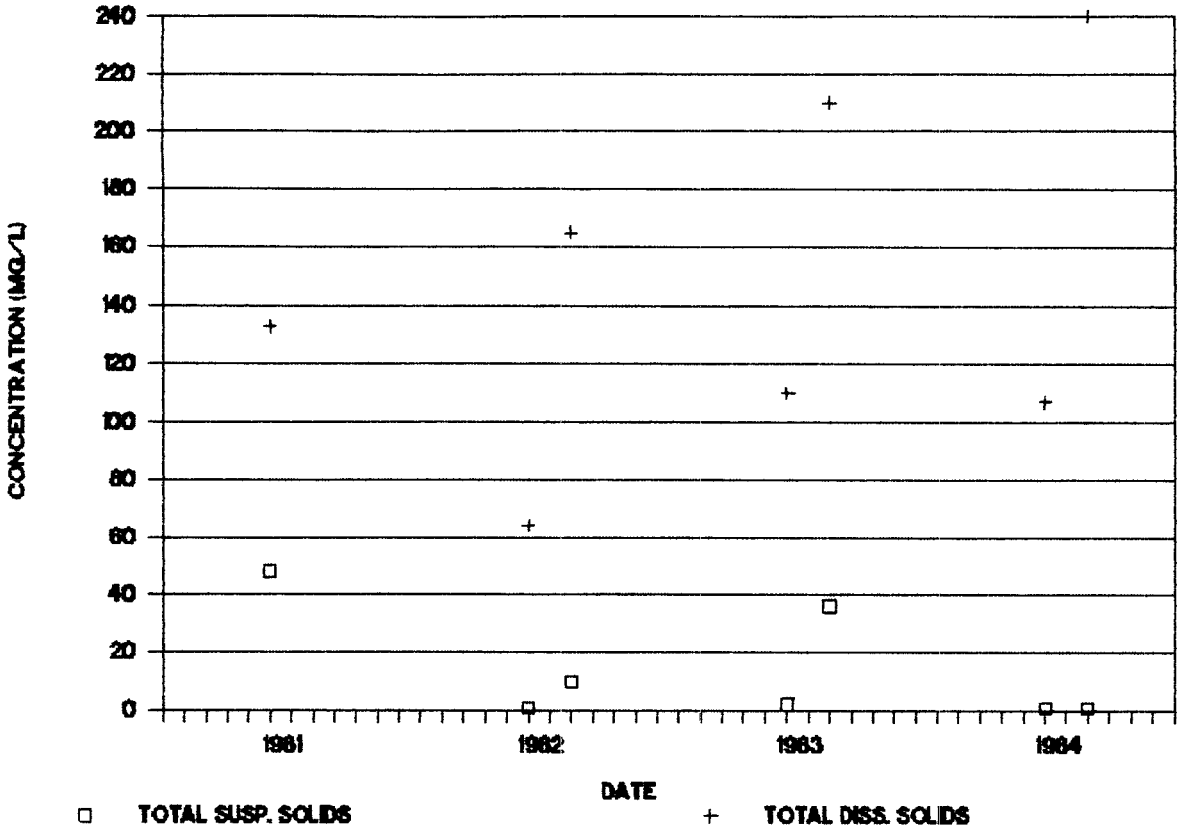

FLOW - SITE S13-7
(QUARTERLY MONITORING FORMAT)
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
FLOW (CFS)
1989
1990
1991
1992
DATE


pH – SITE S13–7
pH (S.U.)
8.4
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
1981
1982
1983
1984
DATE

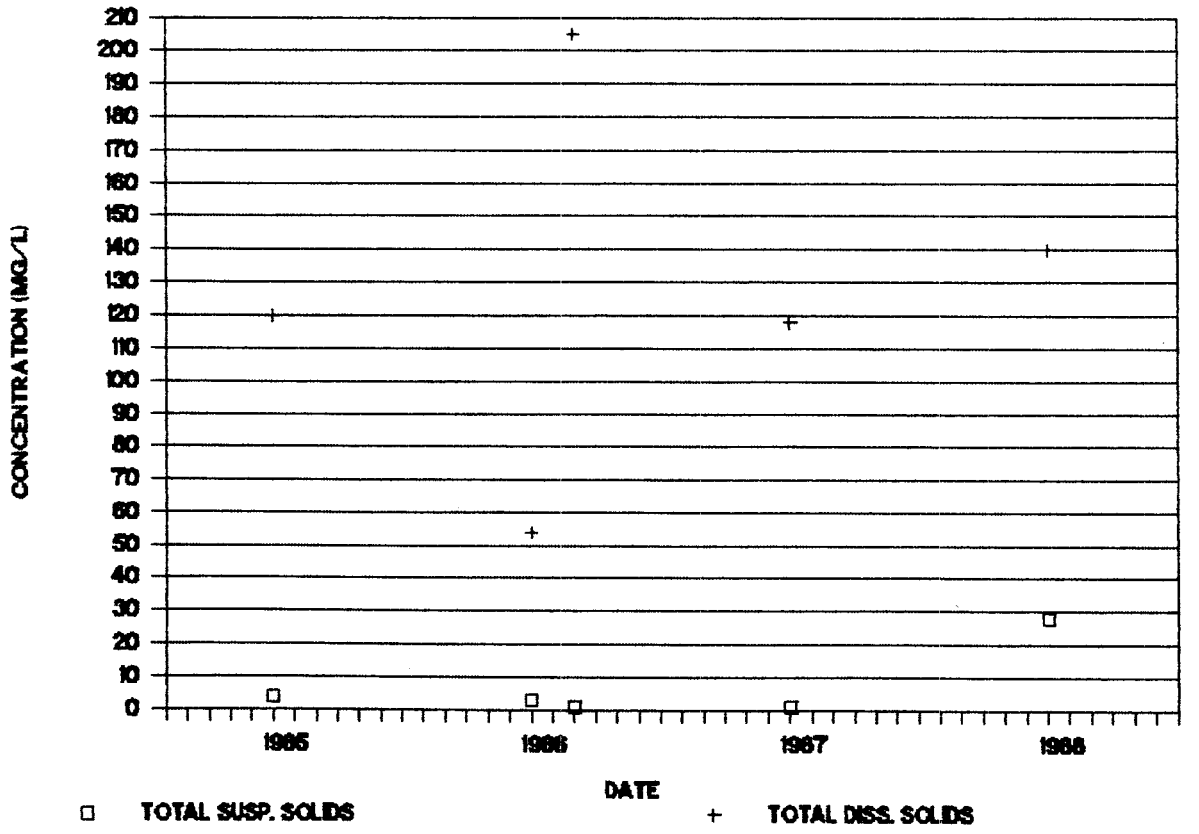

pH – SITE S13–7
pH (S.U.)
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
1985
1986
1987
1988
DATE

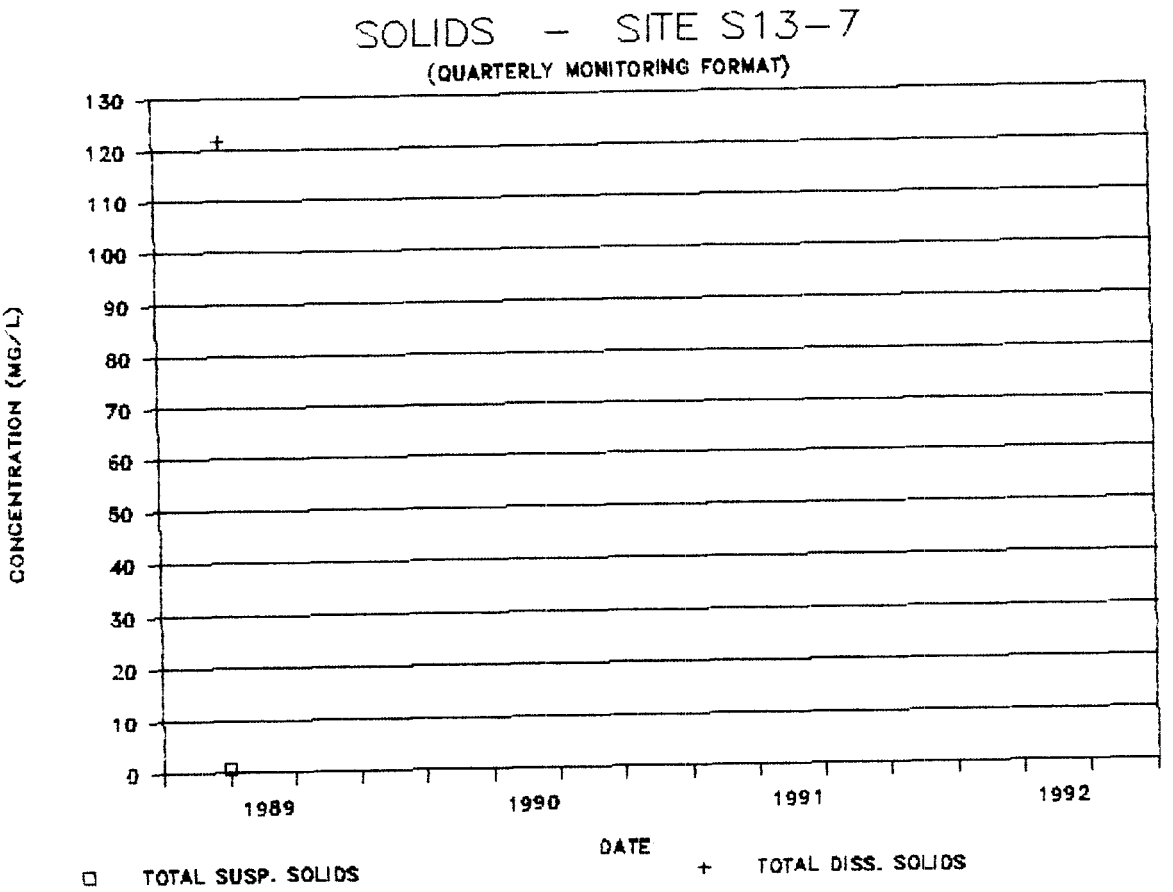

pH - SITE S13-7
(QUARTERLY MONITORING FORMAT)
pH (SU)
6.6
6.59
6.58
6.57
6.56
6.55
6.54
6.53
6.52
6.51
6.5
6.49
6.48
6.47
6.46
6.45
6.44
6.43
6.42
6.41
6.4
1989
1990
1991
1992
DATE

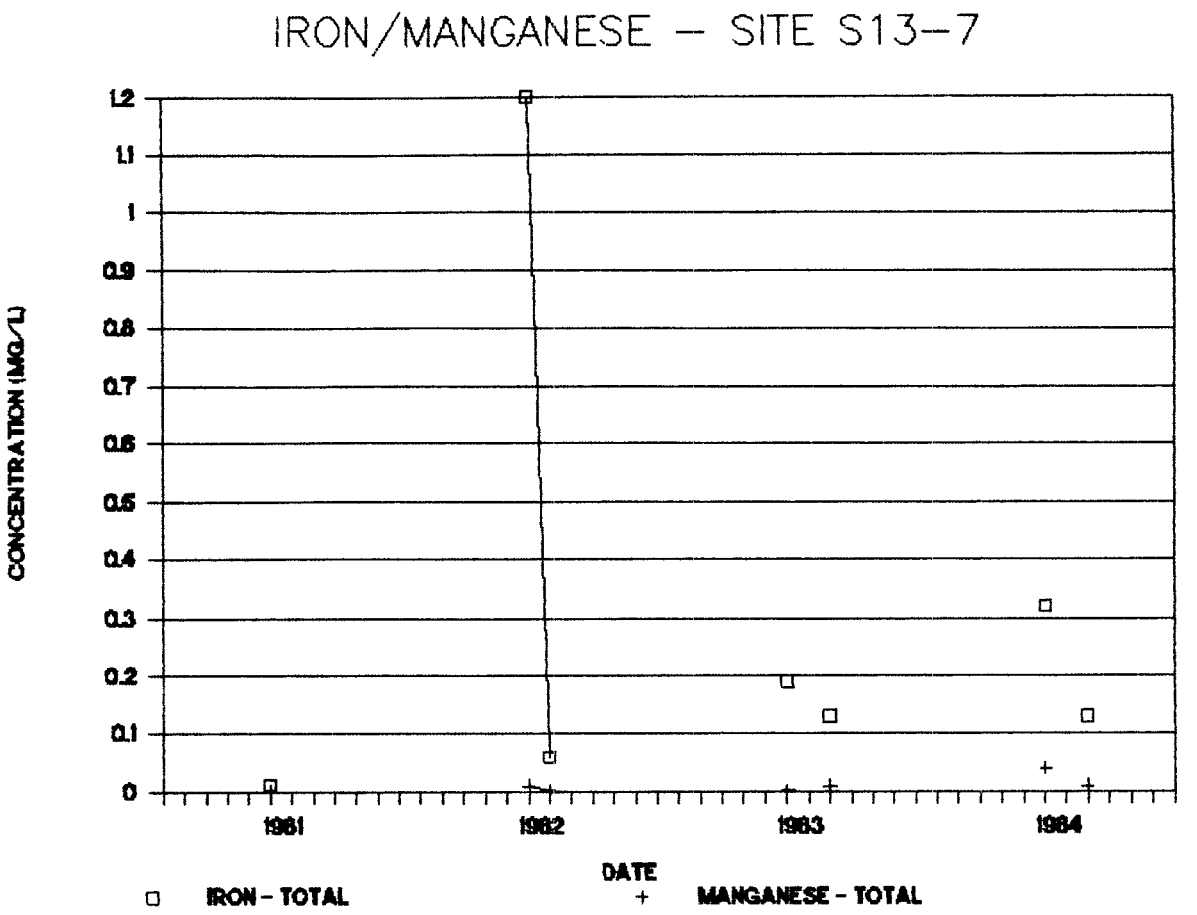
SOLIDS – SITE S13–7

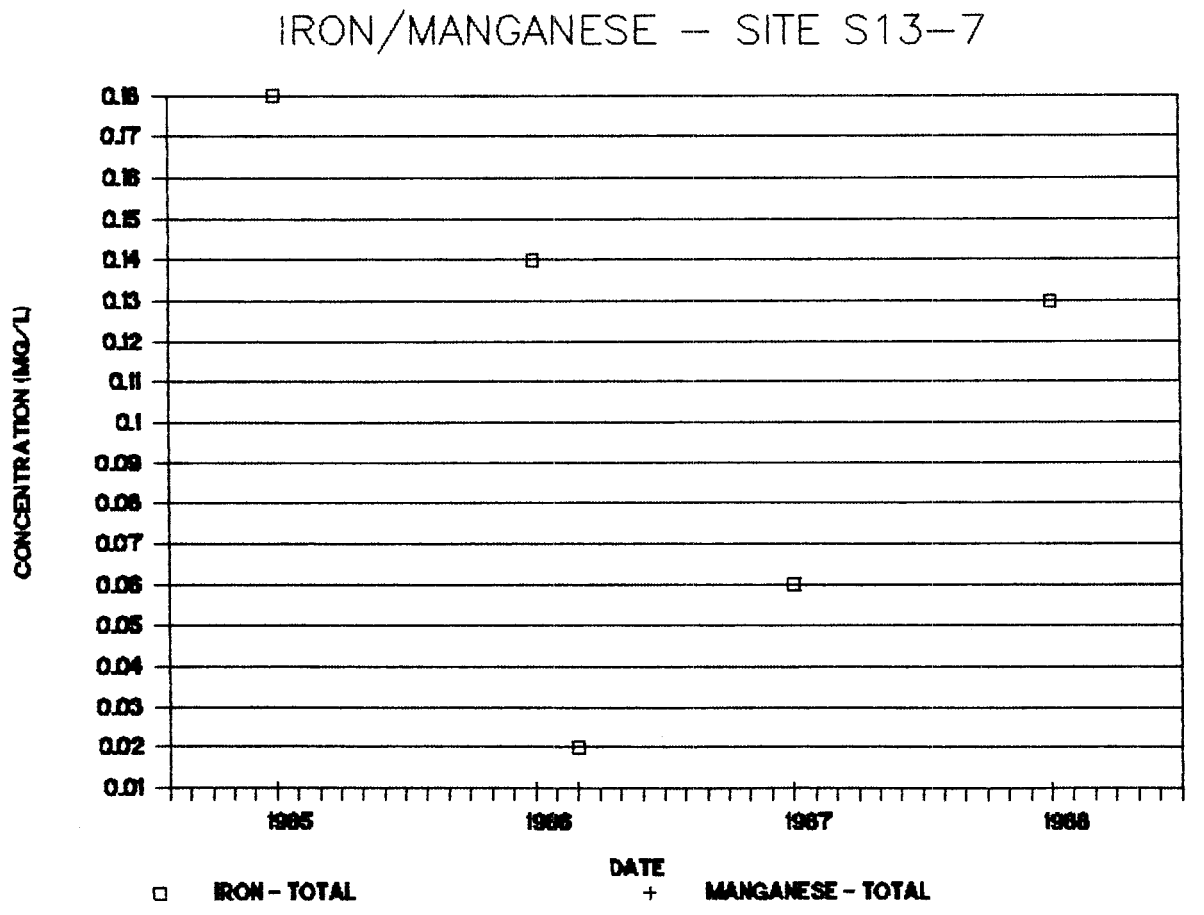


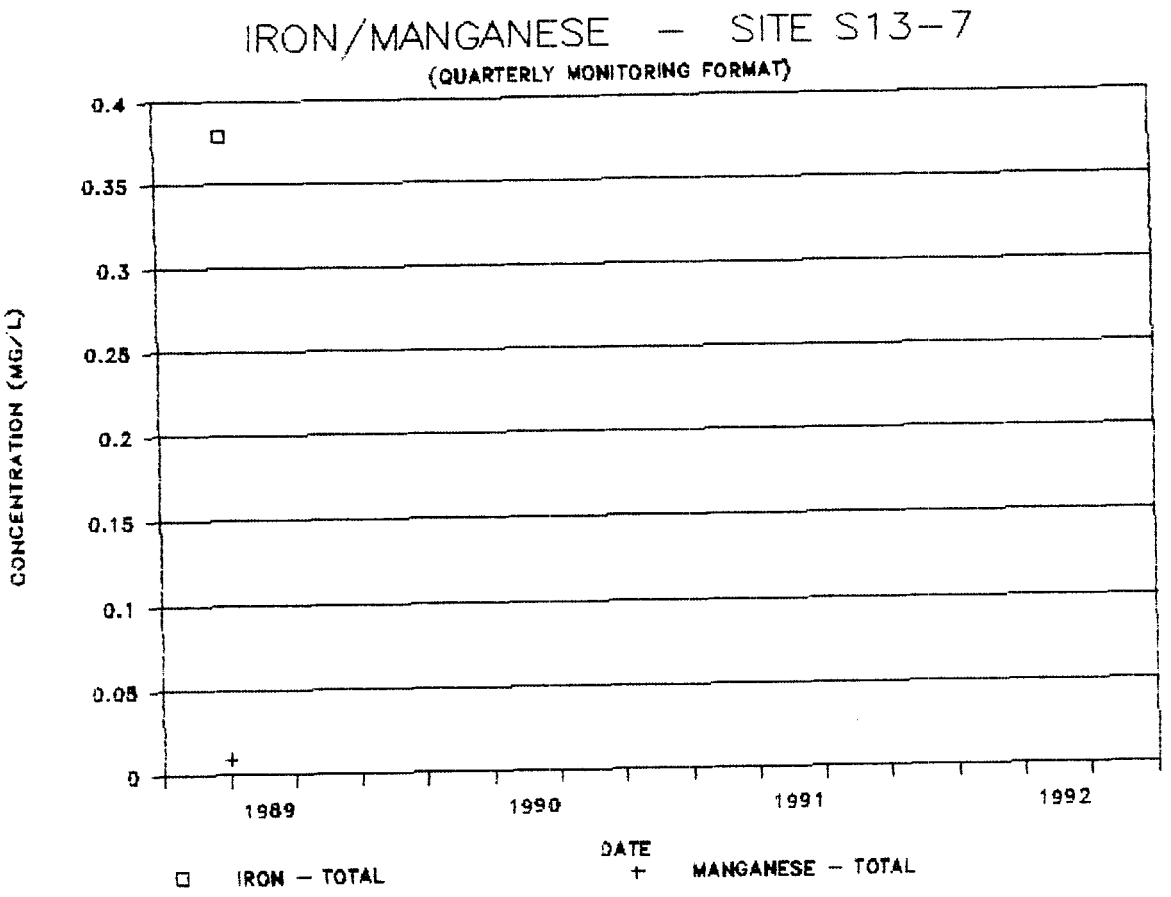
SOLIDS – SITE S13–7

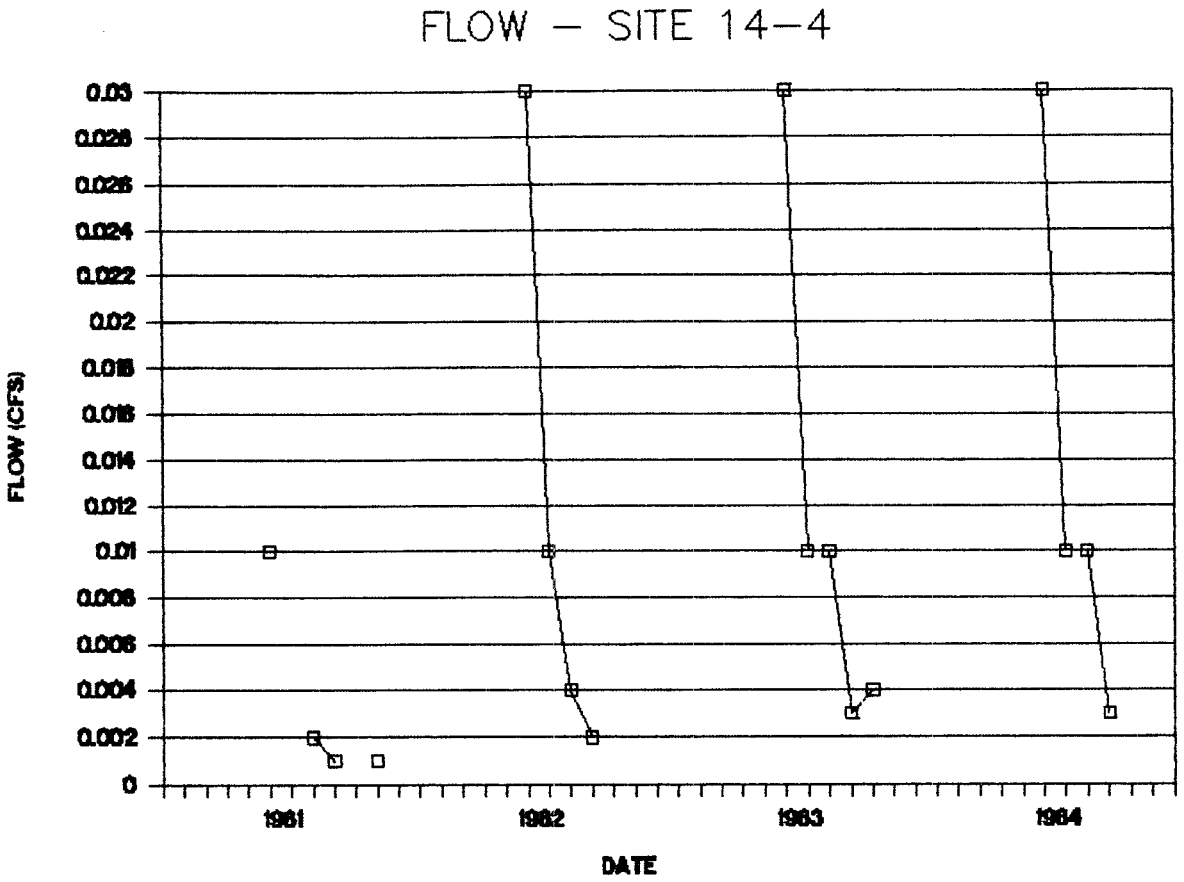


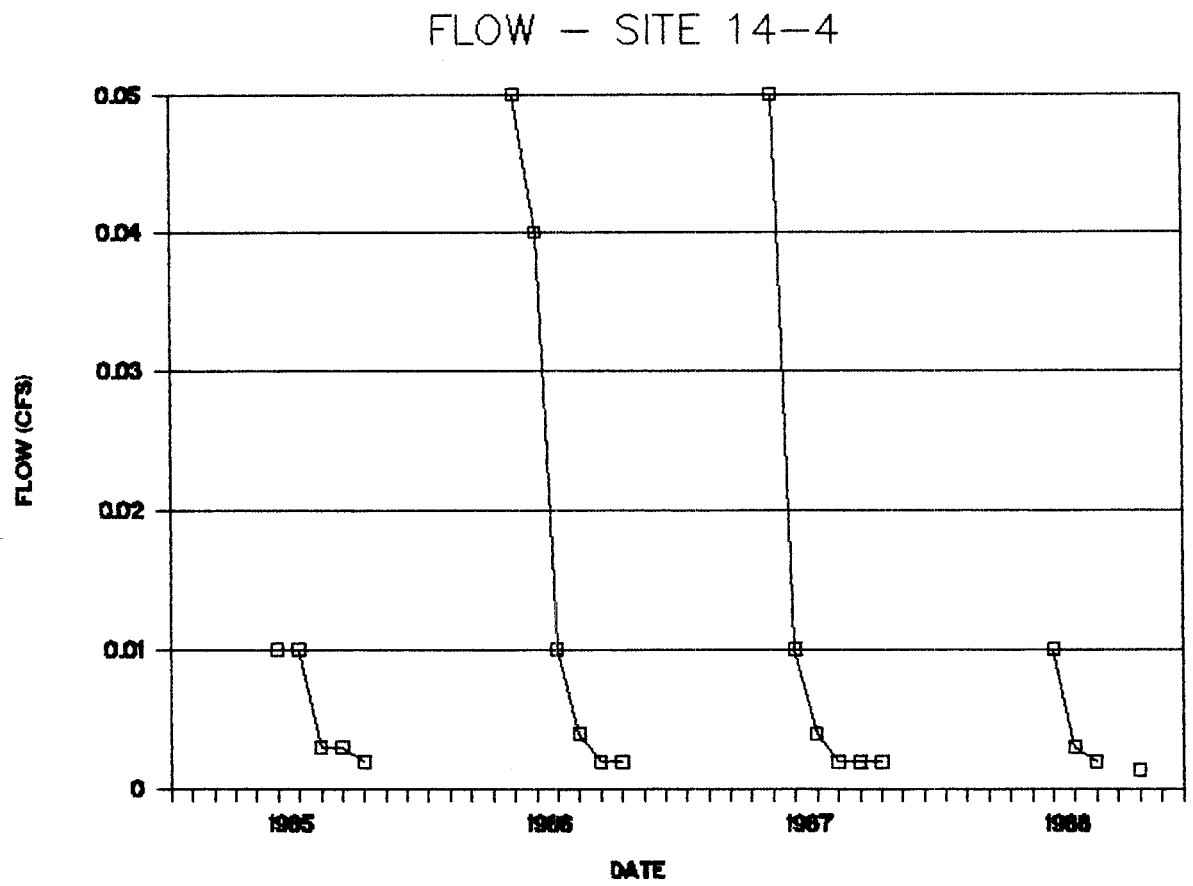

SOLIDS - SITE S13-7
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
130
120
110
100
90
80
70
60
50
40
30
20
10
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

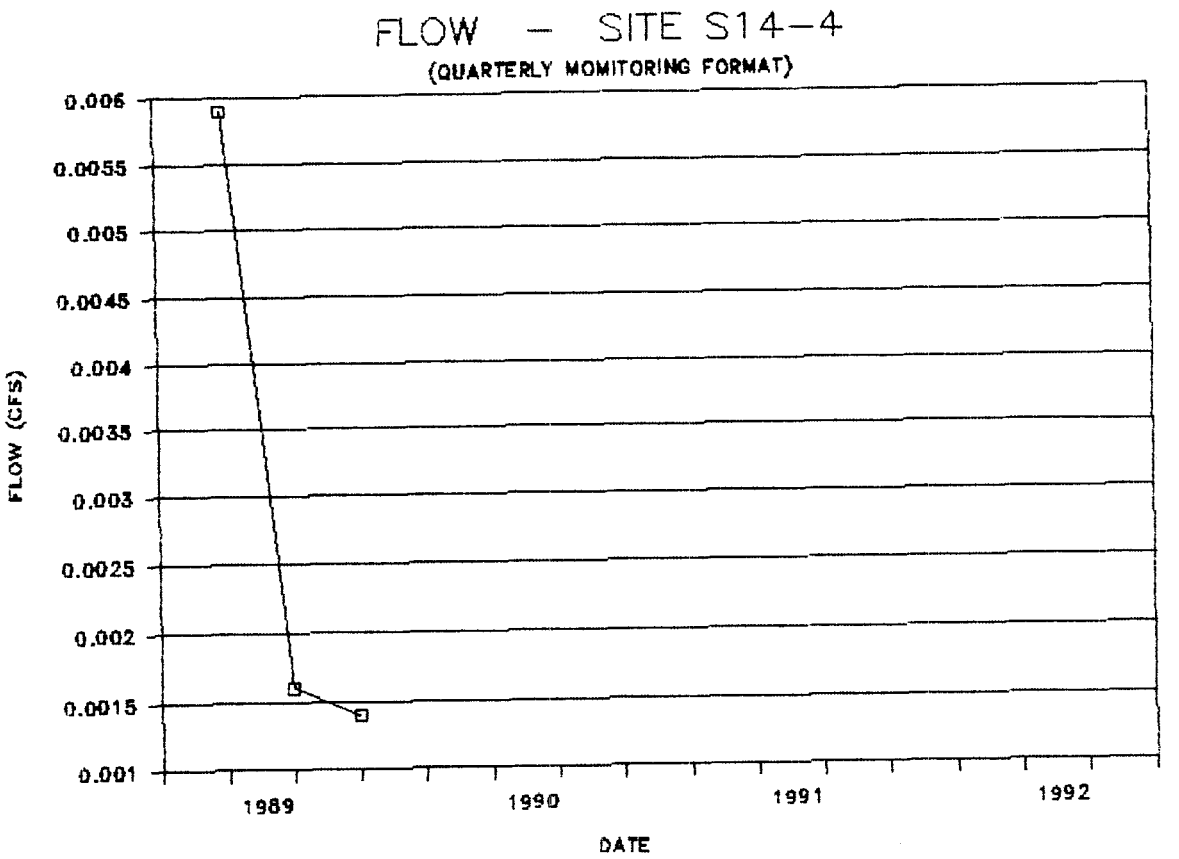

IRON/MANGANESE – SITE S13–7
CONCENTRATION (MG/L)
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1981
1982
1983
1984
DATE
IRON – TOTAL
MANGANESE – TOTAL

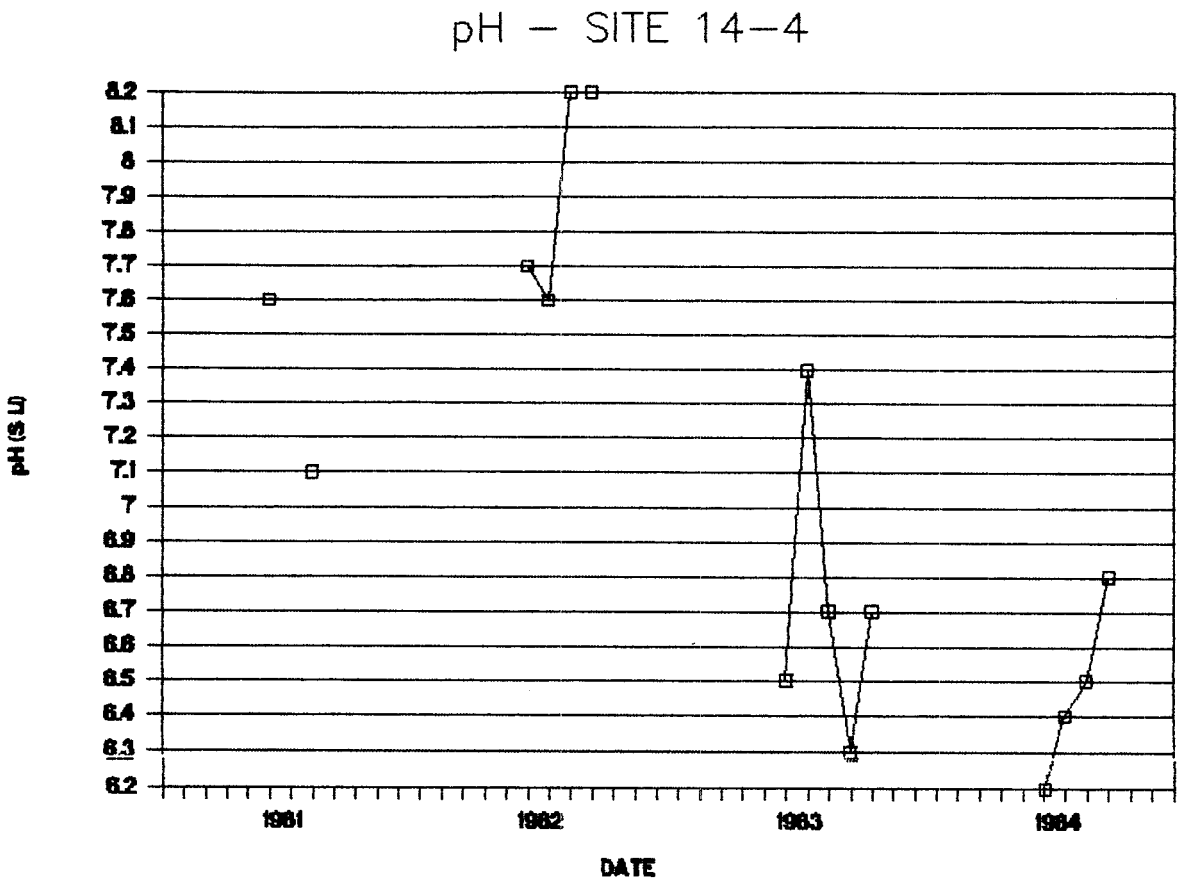

IRON/MANGANESE – SITE S13–7
CONCENTRATION (MG/L)
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
1985
1986
1987
1988
DATE
IRON – TOTAL
MANGANESE – TOTAL

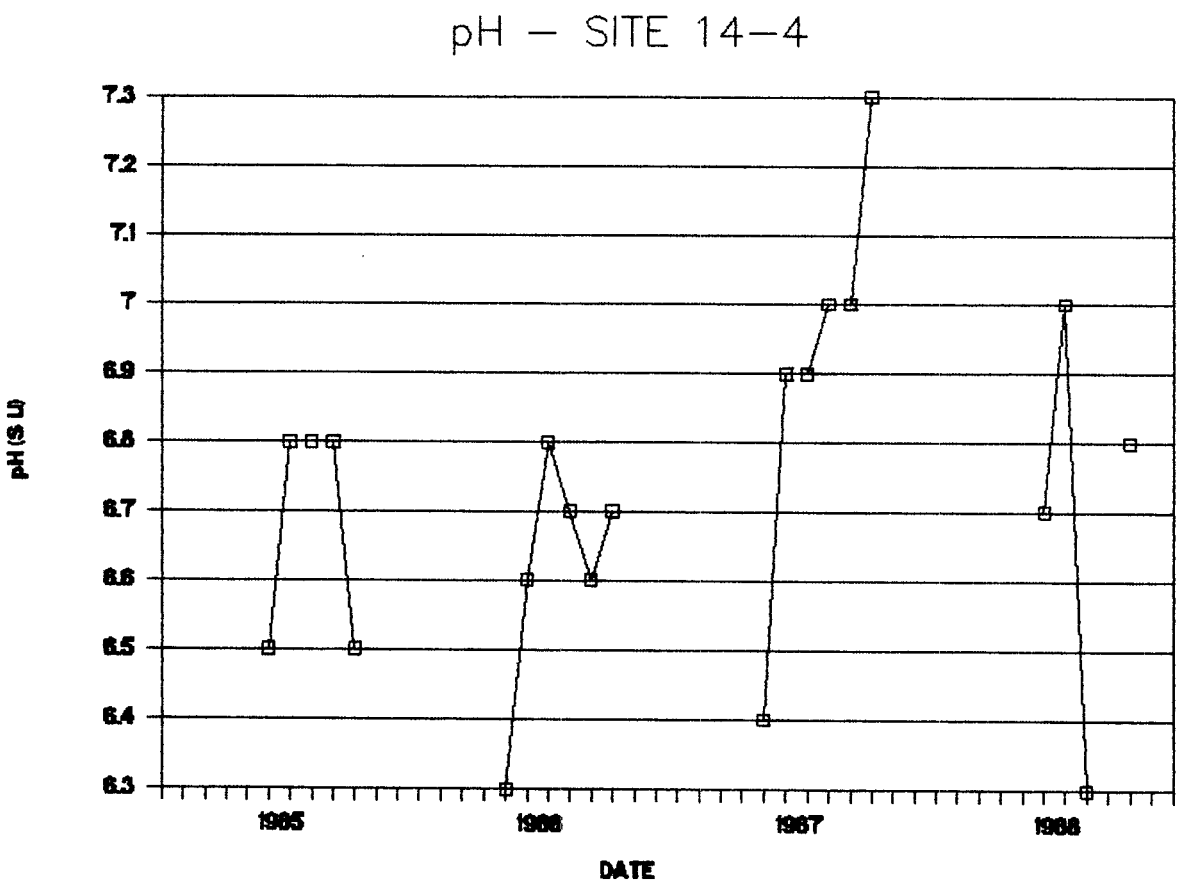

IRON/MANGANESE - SITE S13-7
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

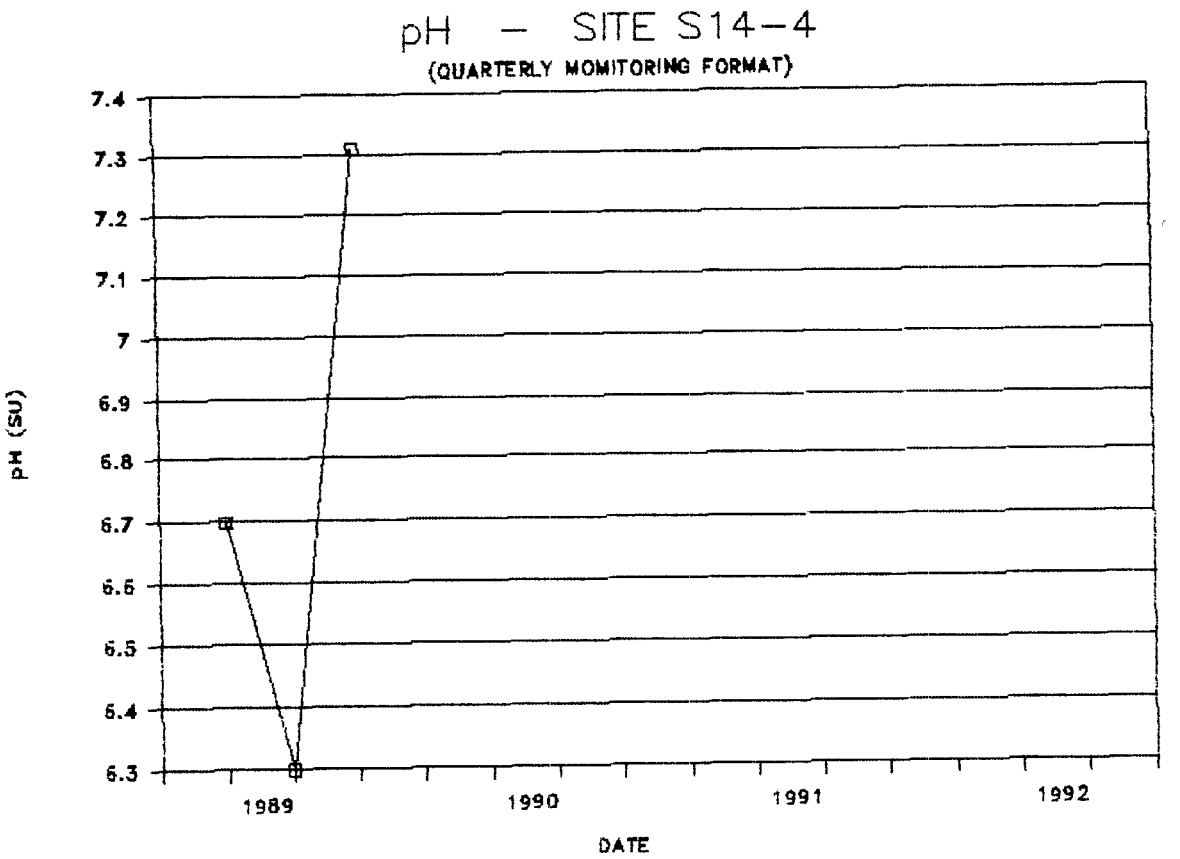

FLOW – SITE 14–4
FLOW (CFS)
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
1981
1982
1983
1984
DATE


FLOW – SITE 14–4
FLOW (CFS)
0.05
0.04
0.03
0.02
0.01
0
1985
1986
1987
1988
DATE

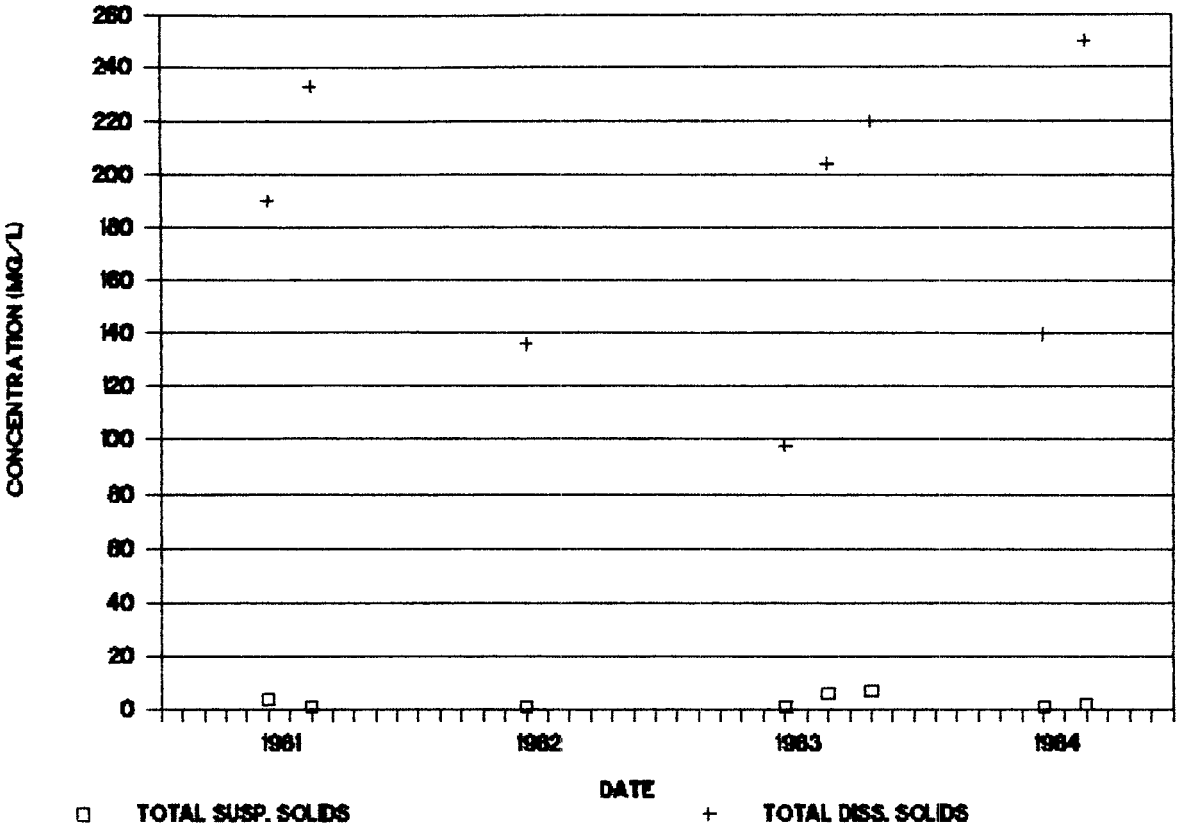

FLOW - SITE S14-4
(QUARTERLY MOMITORING FORMAT)
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
FLOW (CFS)
1989
1990
1991
1992
DATE


pH – SITE 14–4
pH (S U)
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
6.3
6.2
1981
1982
1983
1984
DATE

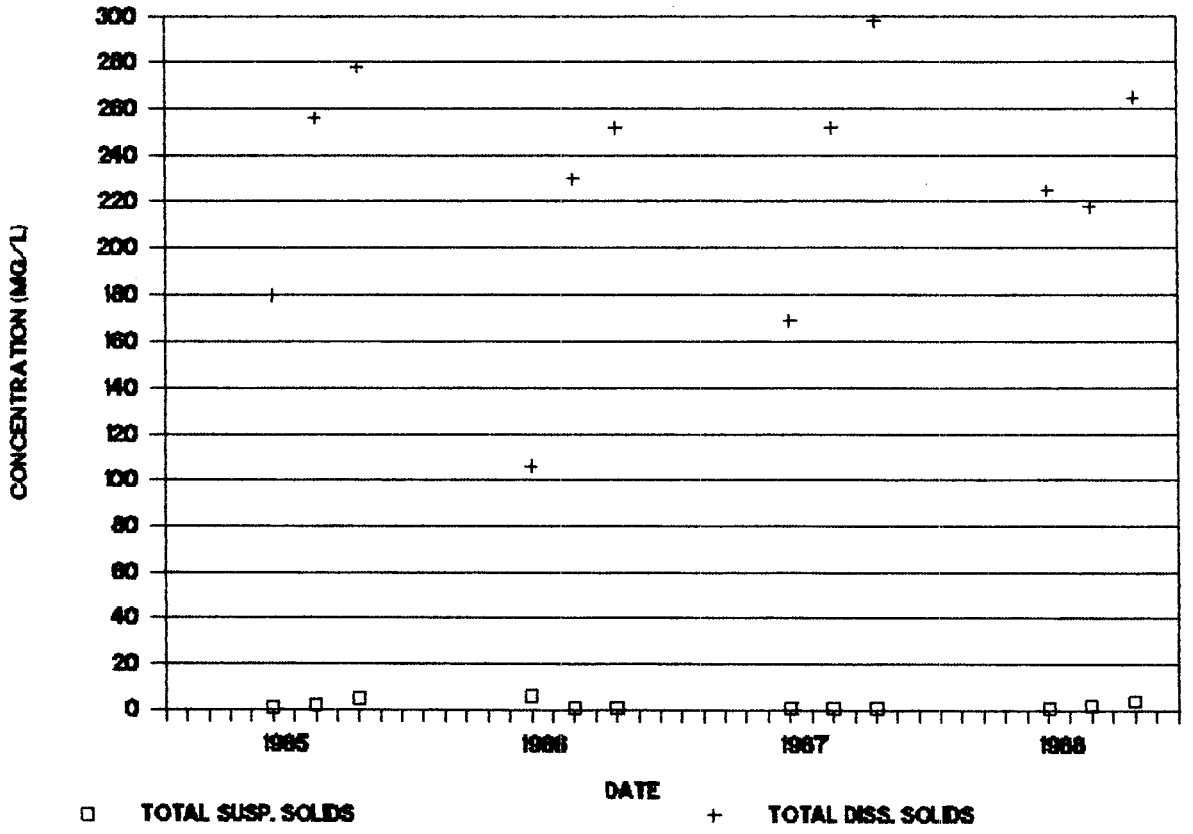

pH – SITE 14–4
pH (S U)
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
6.3
1985
1986
1987
1988
DATE

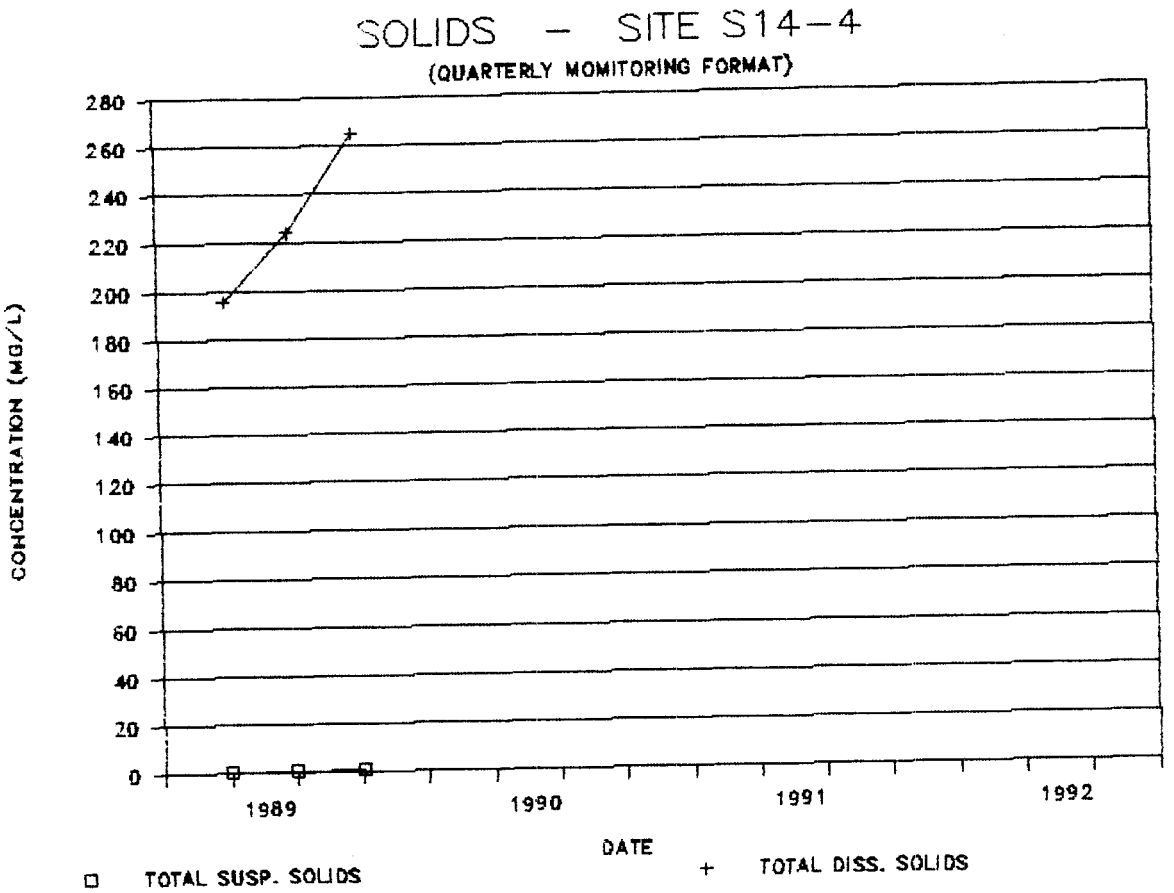

pH - SITE S14-4
(QUARTERLY MOMITORING FORMAT)
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
6.3
pH (SU)
1989
1990
1991
1992
DATE

SOLIDS – SITE 14–4

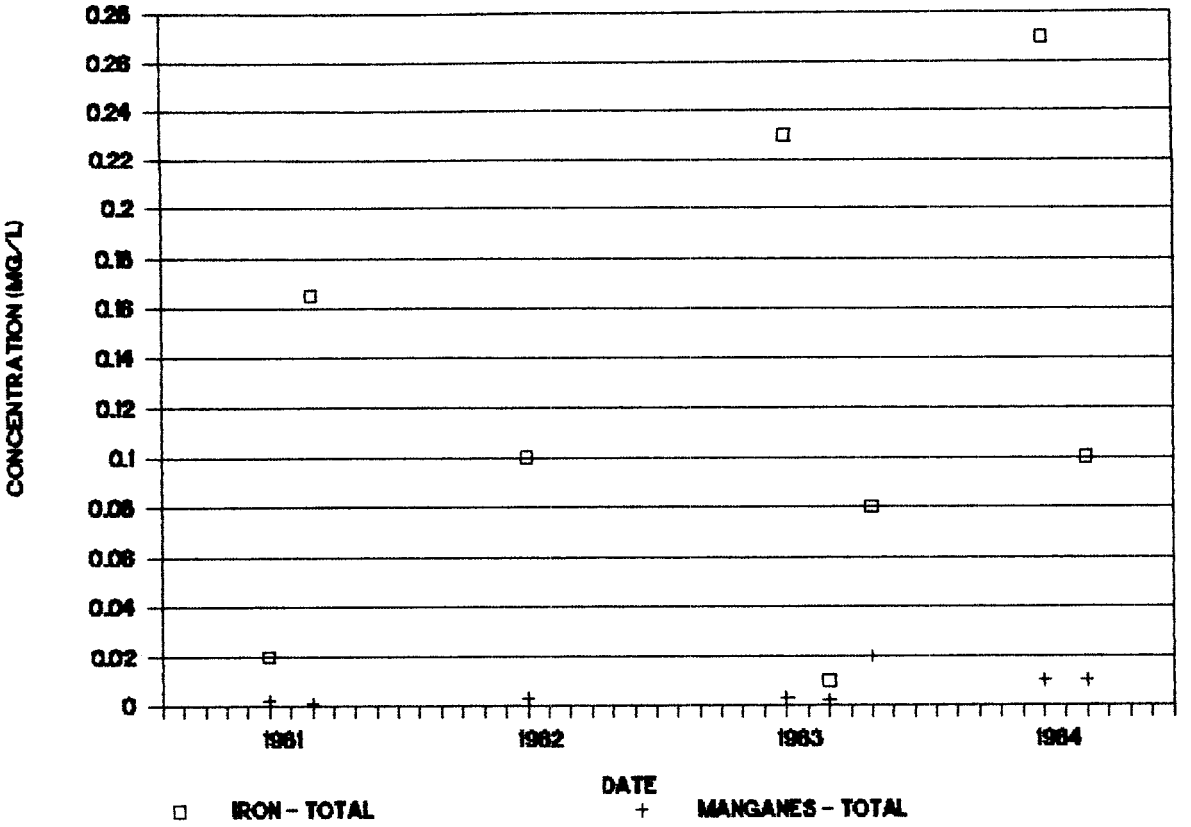


SOLIDS – SITE 14–4

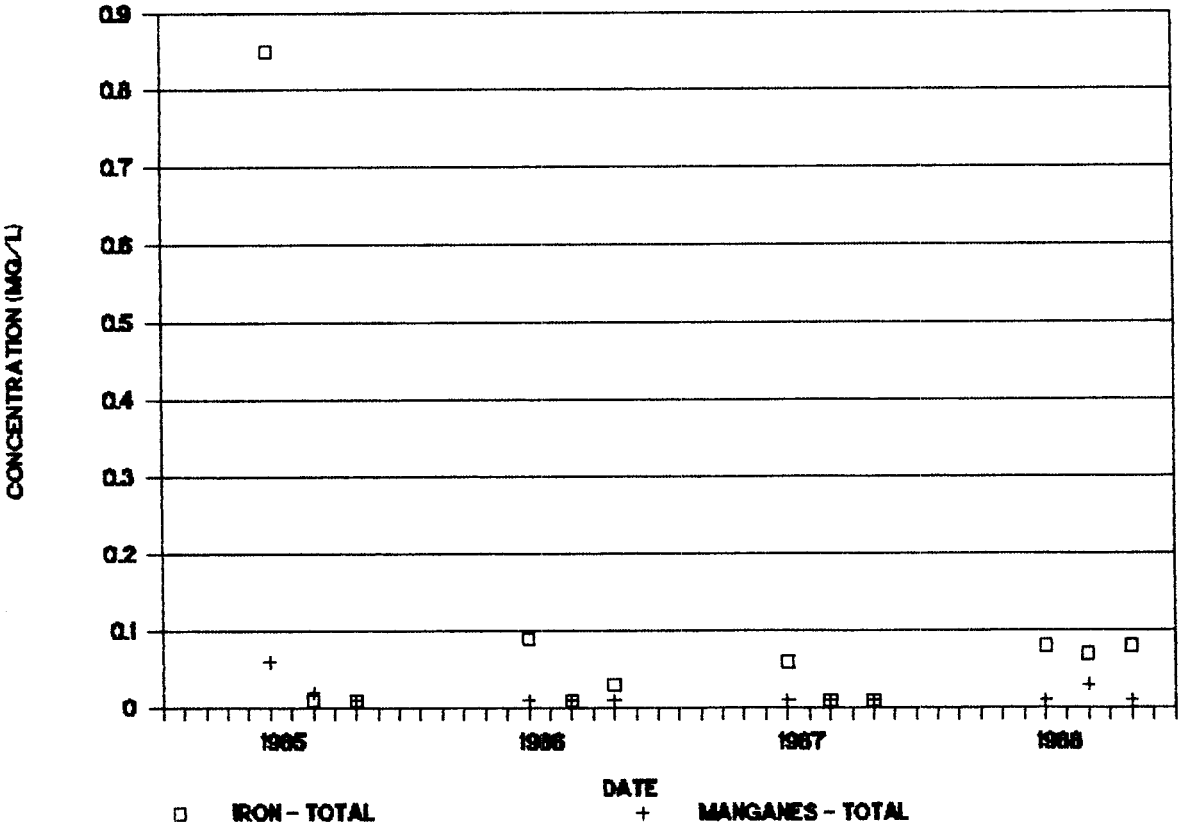



SOLIDS - SITE S14-4
(QUARTERLY MOMITORING FORMAT)
CONCENTRATION (MG/L)
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

IRON/MANGANESE – SITE 14–4

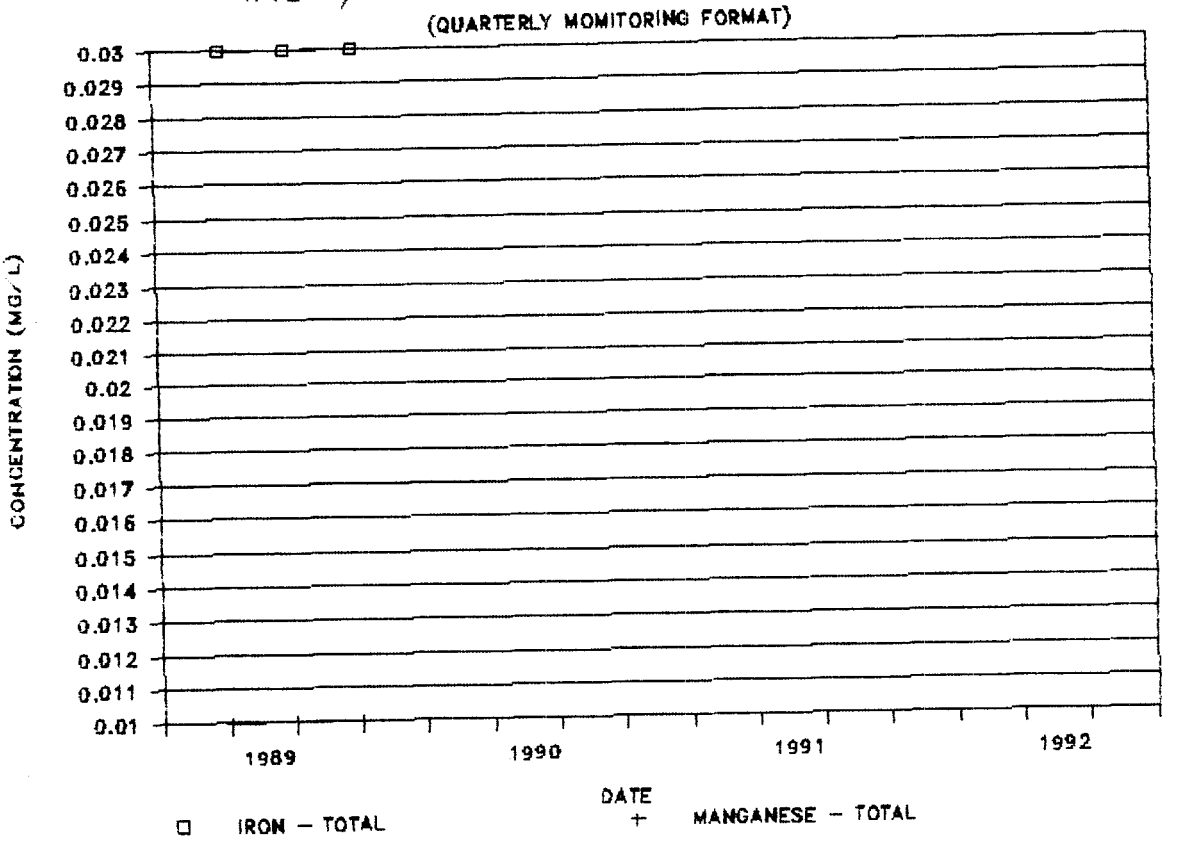


IRON/MANGANESE – SITE 14–4

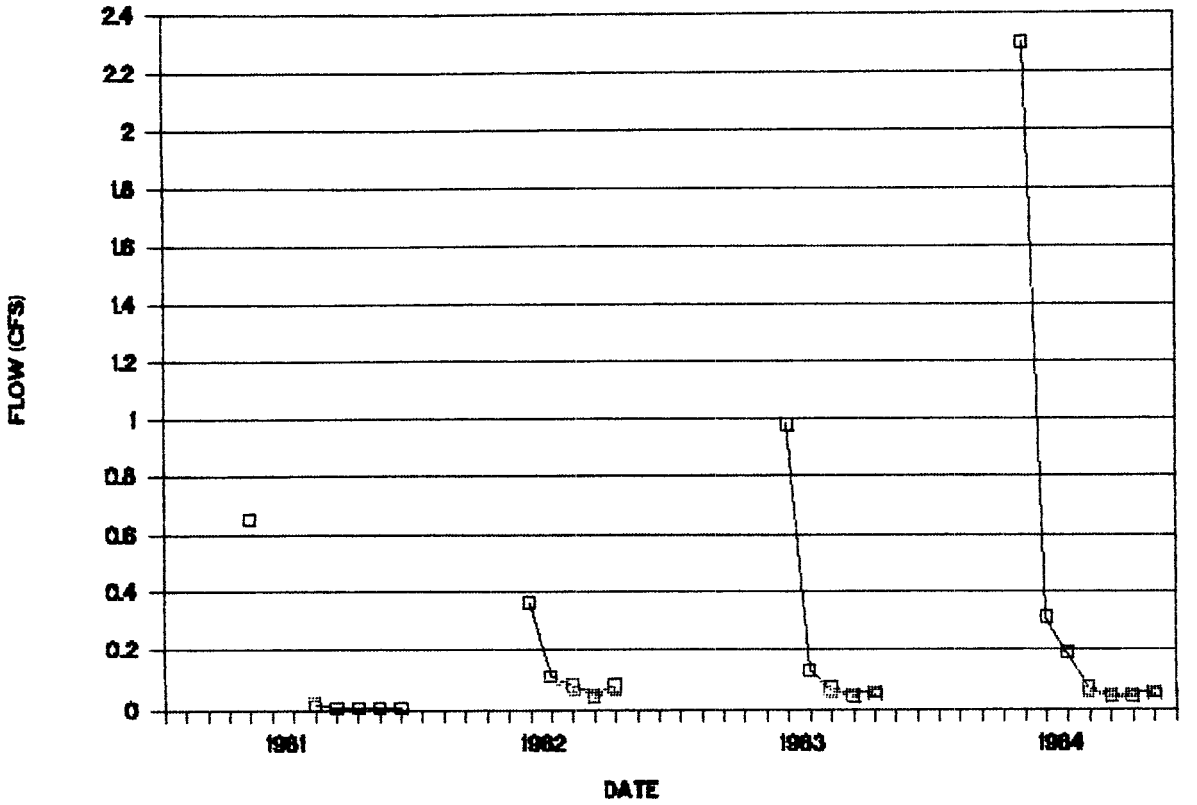


IRON/MANGANESE – SITE S14-4

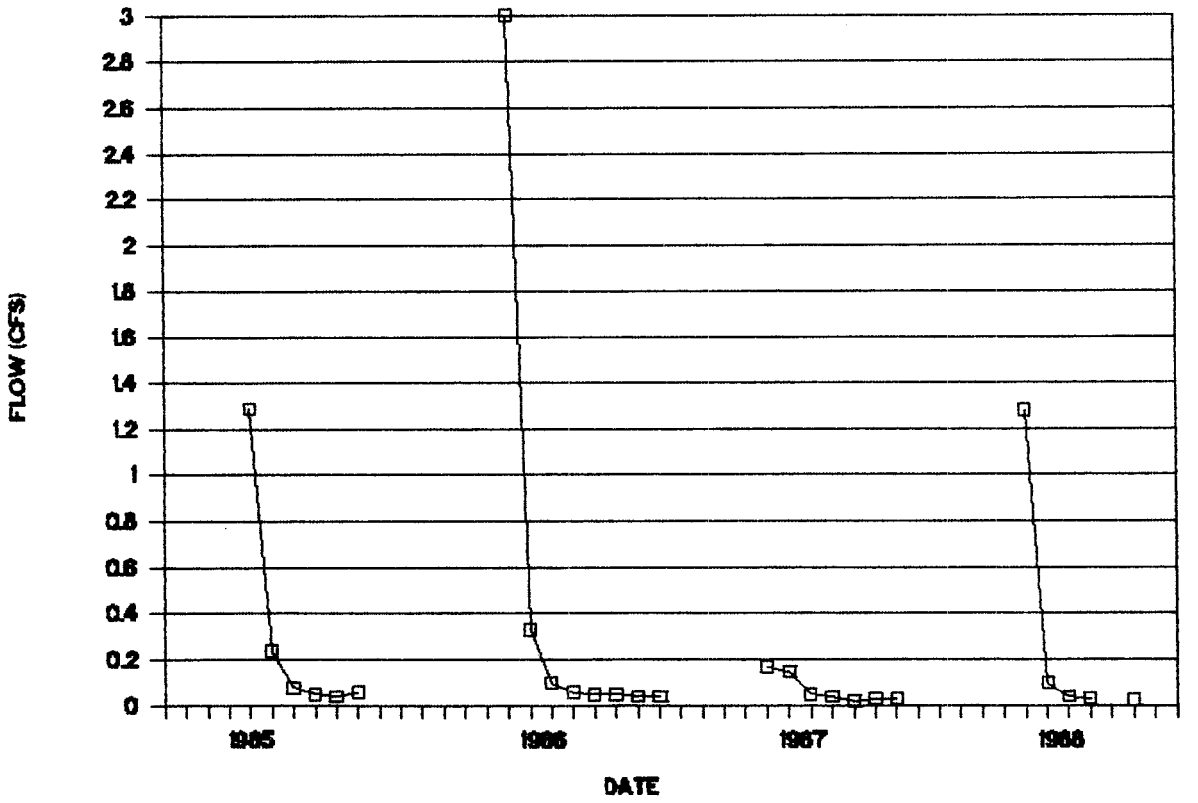
(QUARTERLY MOMITORING FORMAT)

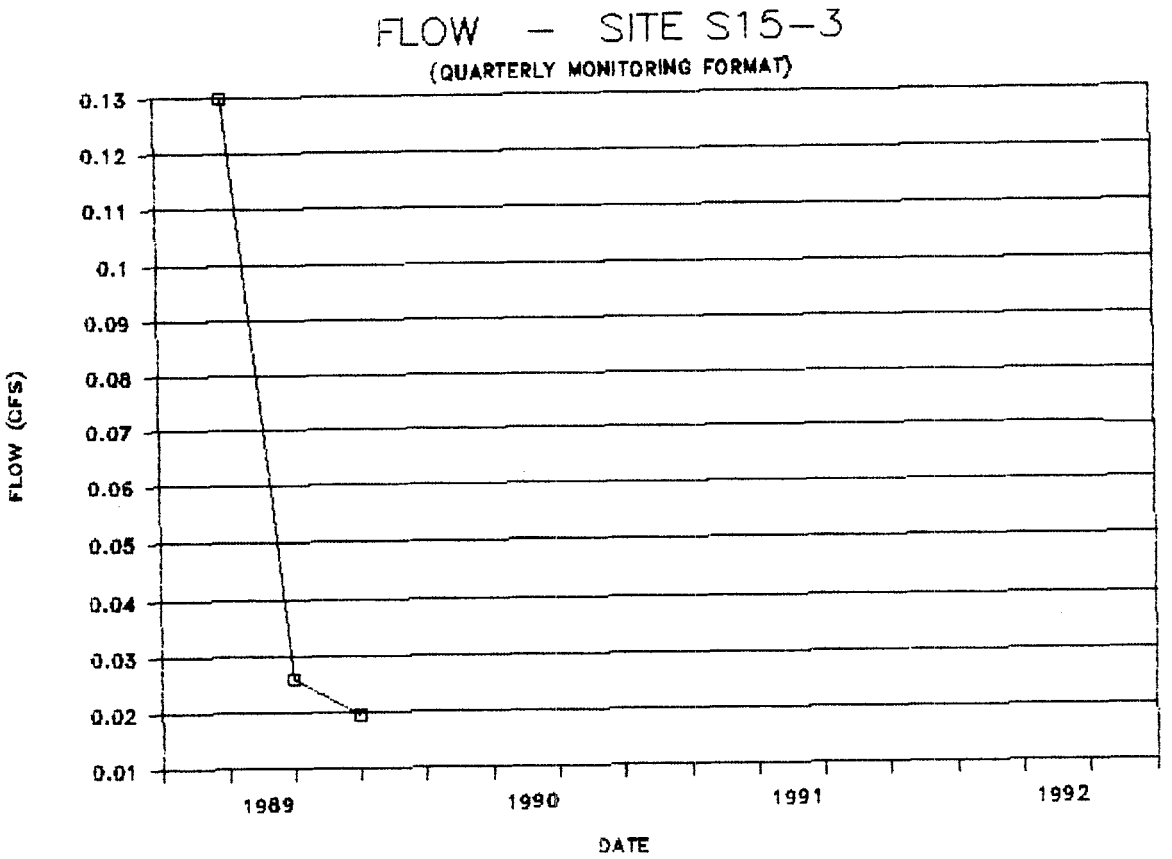


FLOW – SITE 15–3

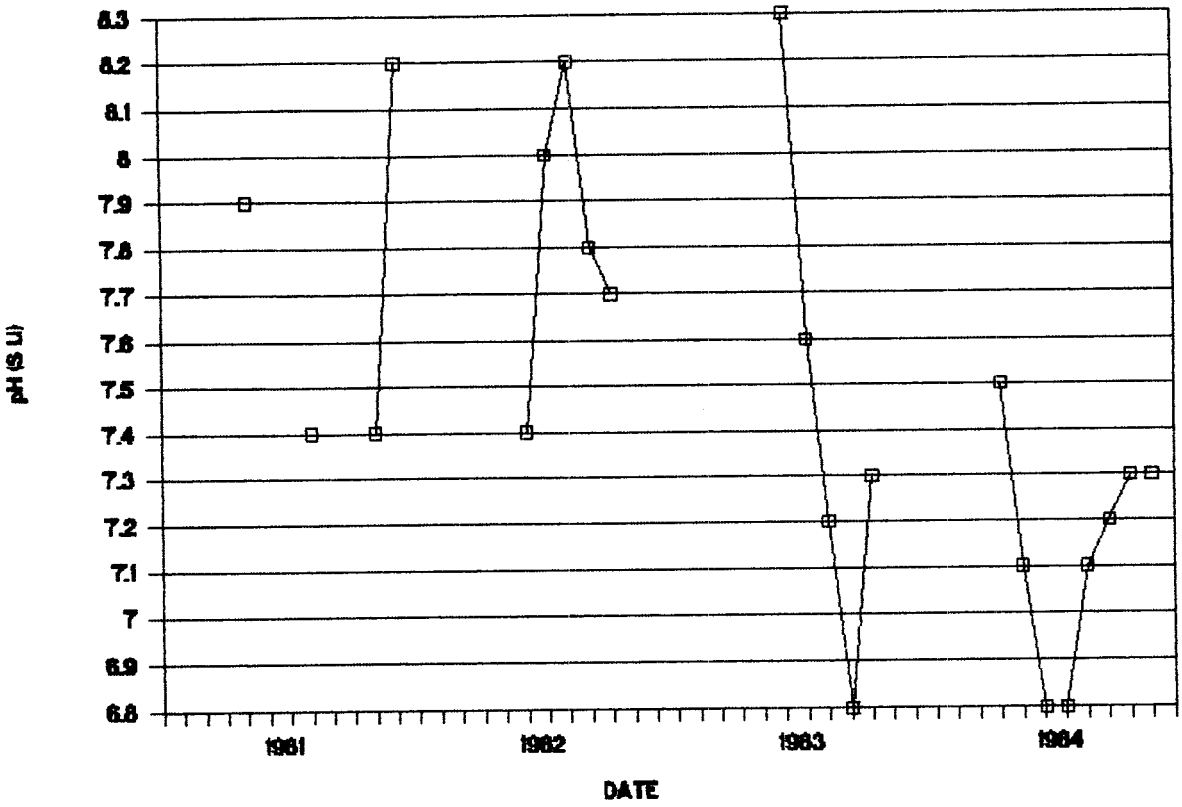


FLOW – SITE 15–3

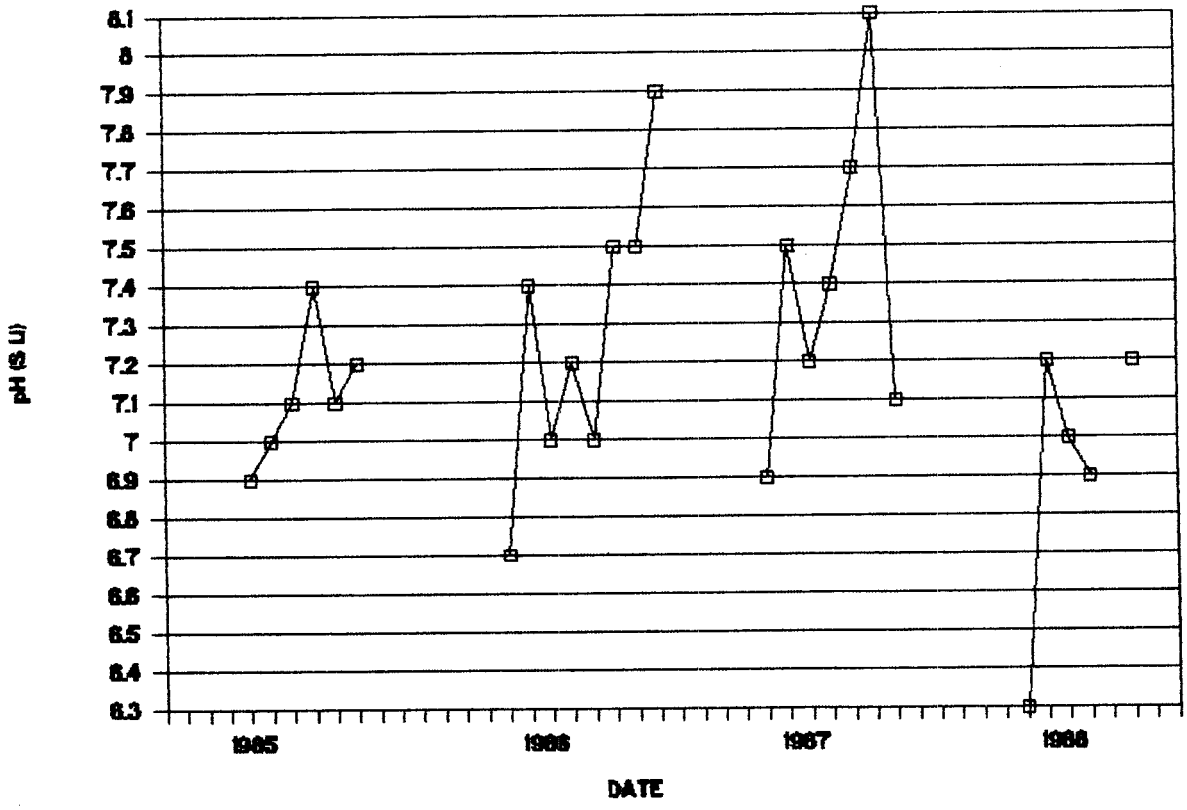


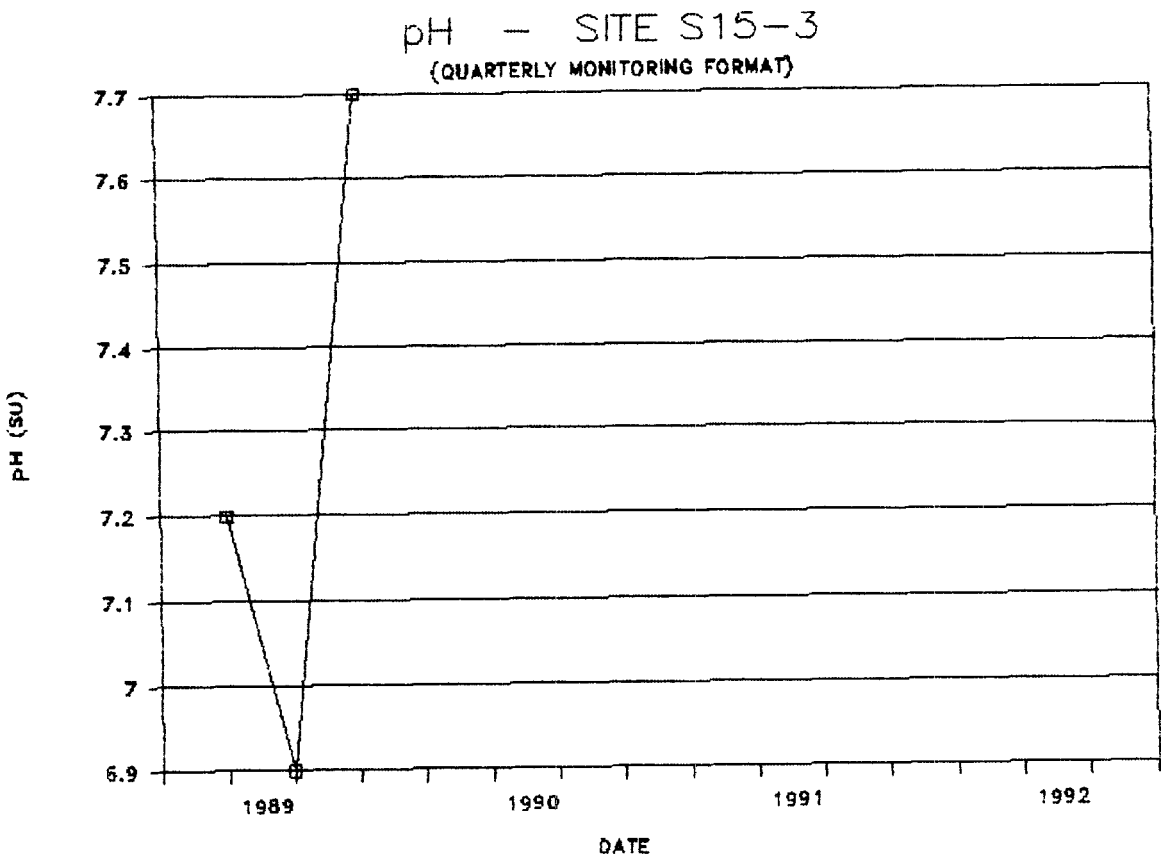

FLOW - SITE S15-3
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
1989
1990
1991
1992
DATE

pH – SITE 15–3

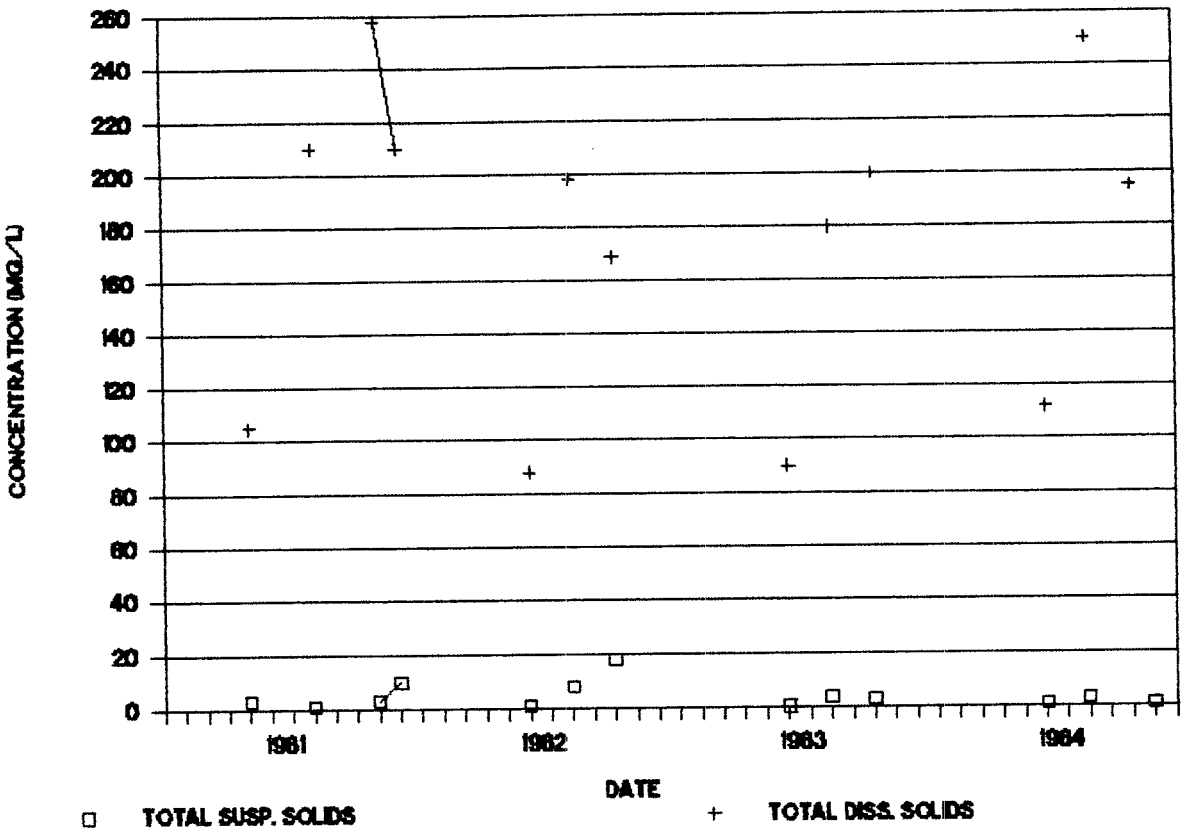


pH – SITE 15–3

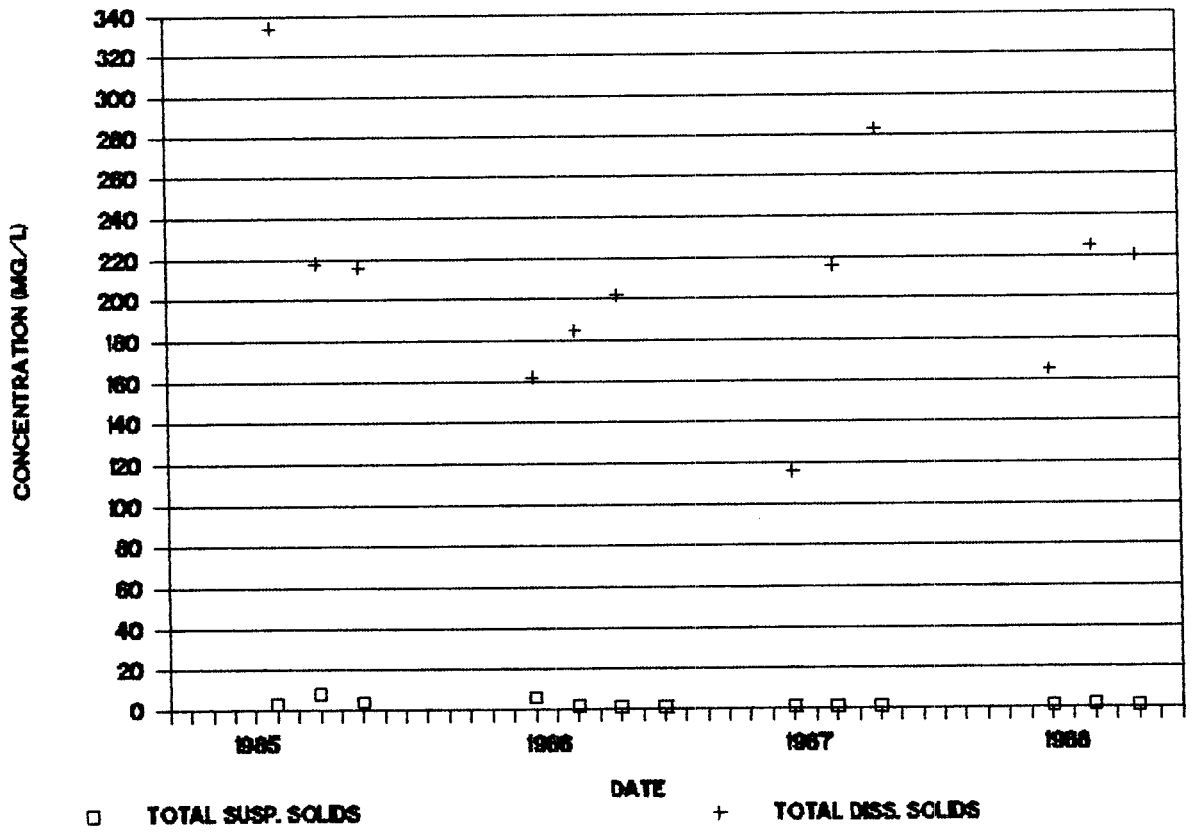


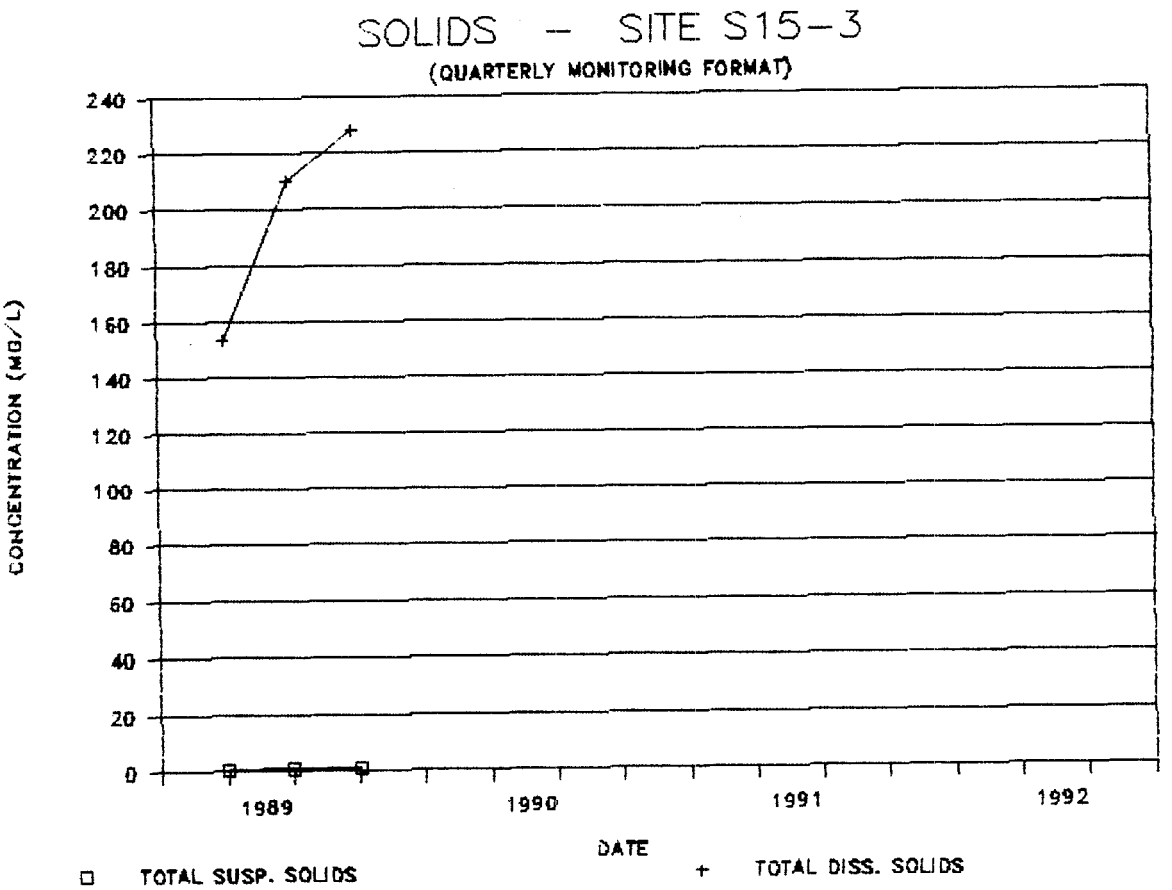

pH - SITE S15-3
(QUARTERLY MONITORING FORMAT)
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
pH (SU)
1989
1990
1991
1992
DATE

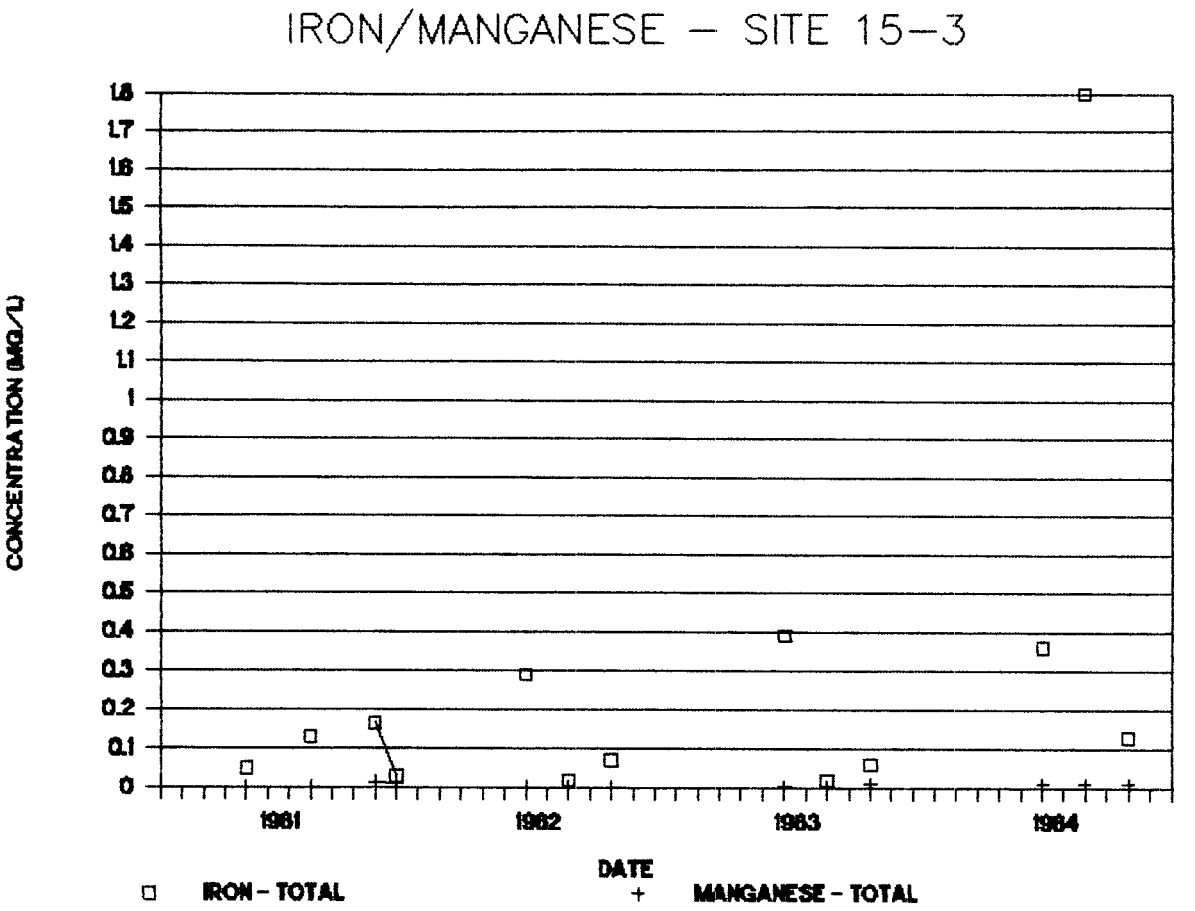
SOLIDS – SITE 15–3

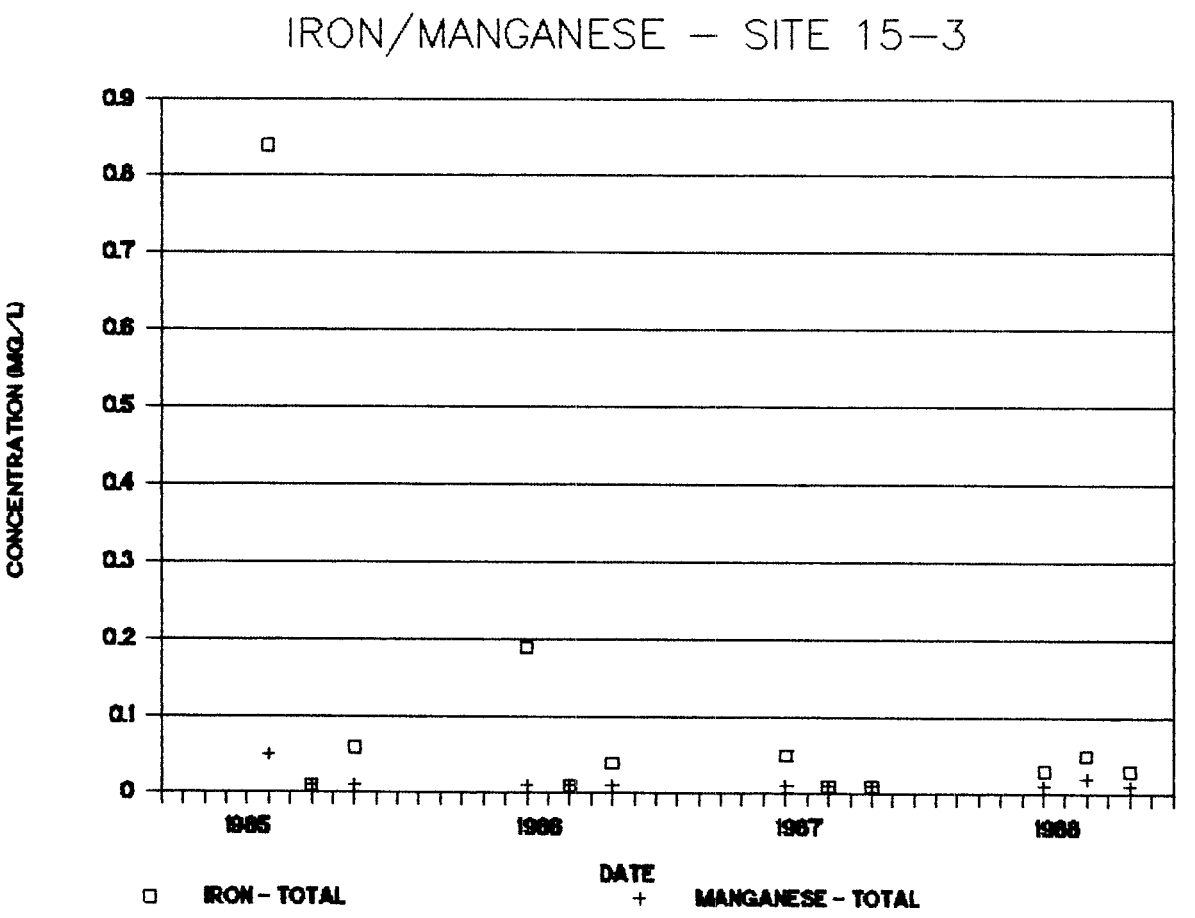


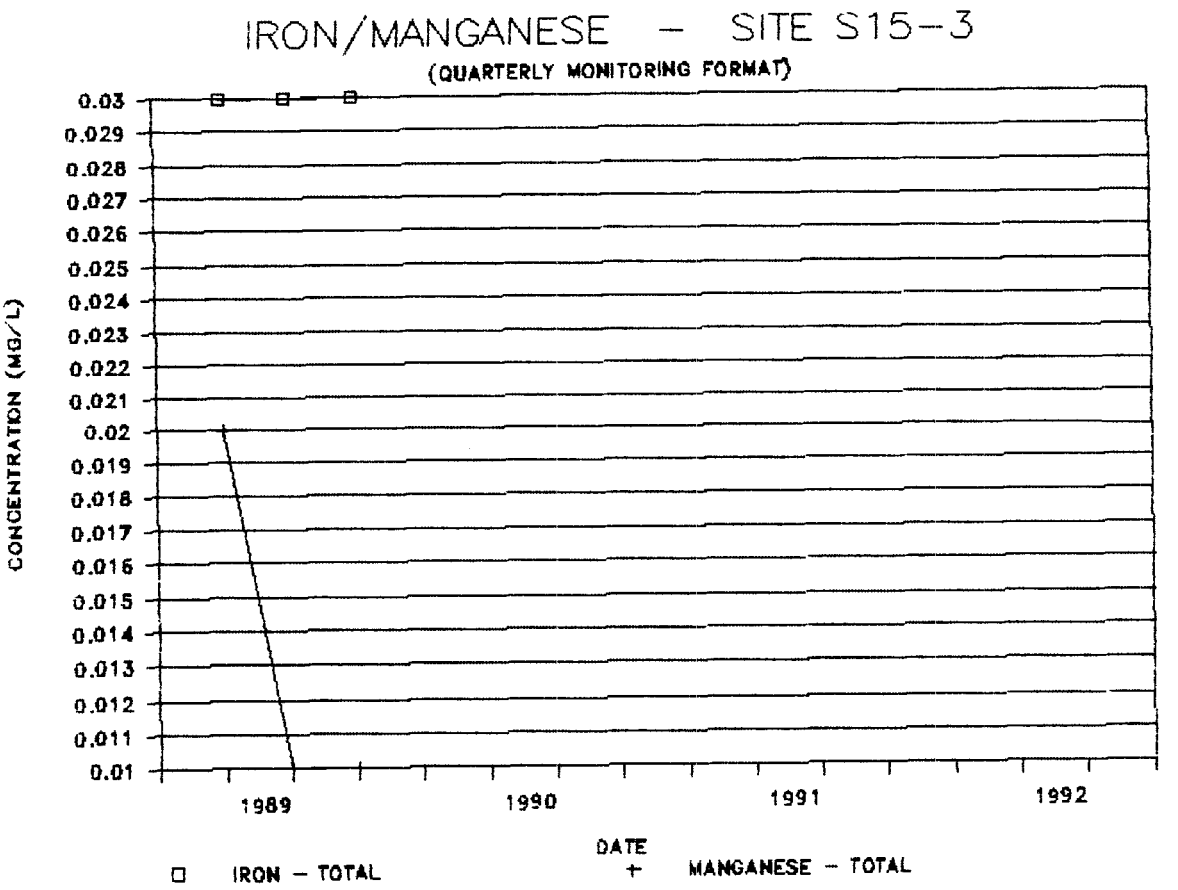
SOLIDS – SITE 15–3



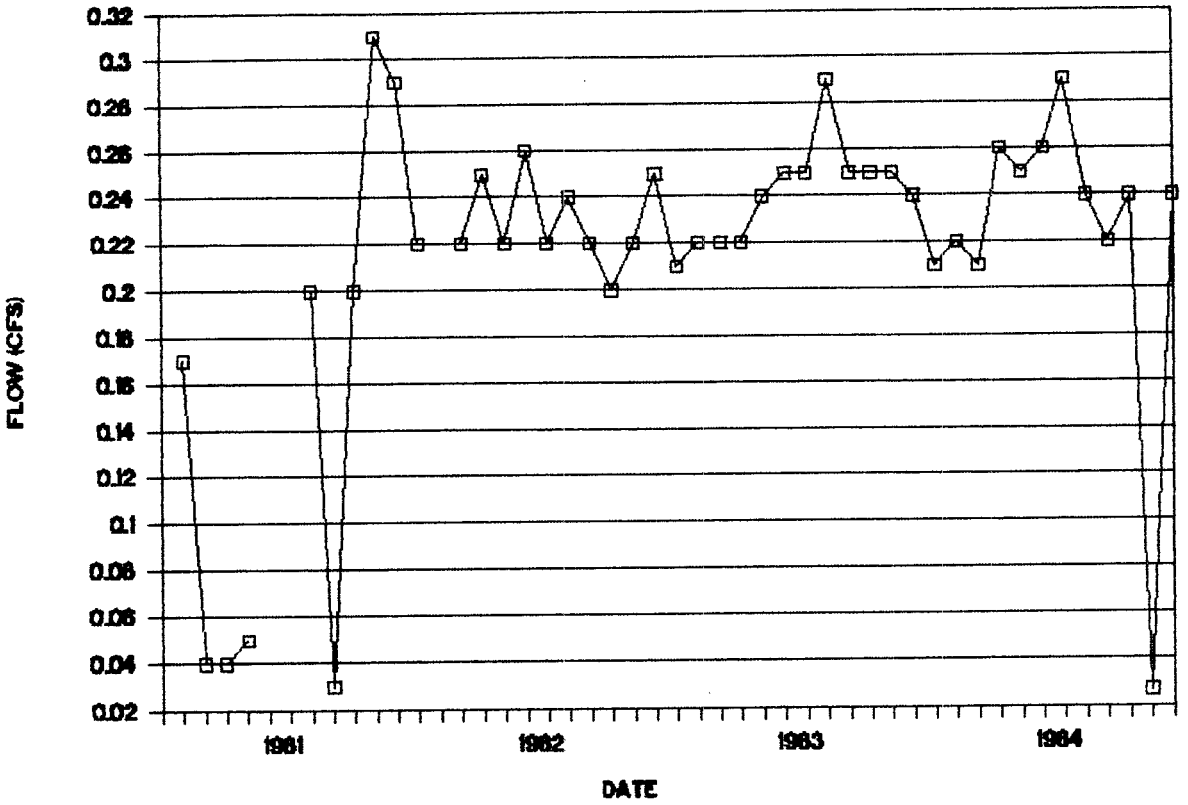

SOLIDS - SITE S15-3
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


IRON/MANGANESE – SITE 15–3
CONCENTRATION (MG/L)
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1981
1982
1983
1984
DATE
IRON – TOTAL
MANGANESE – TOTAL

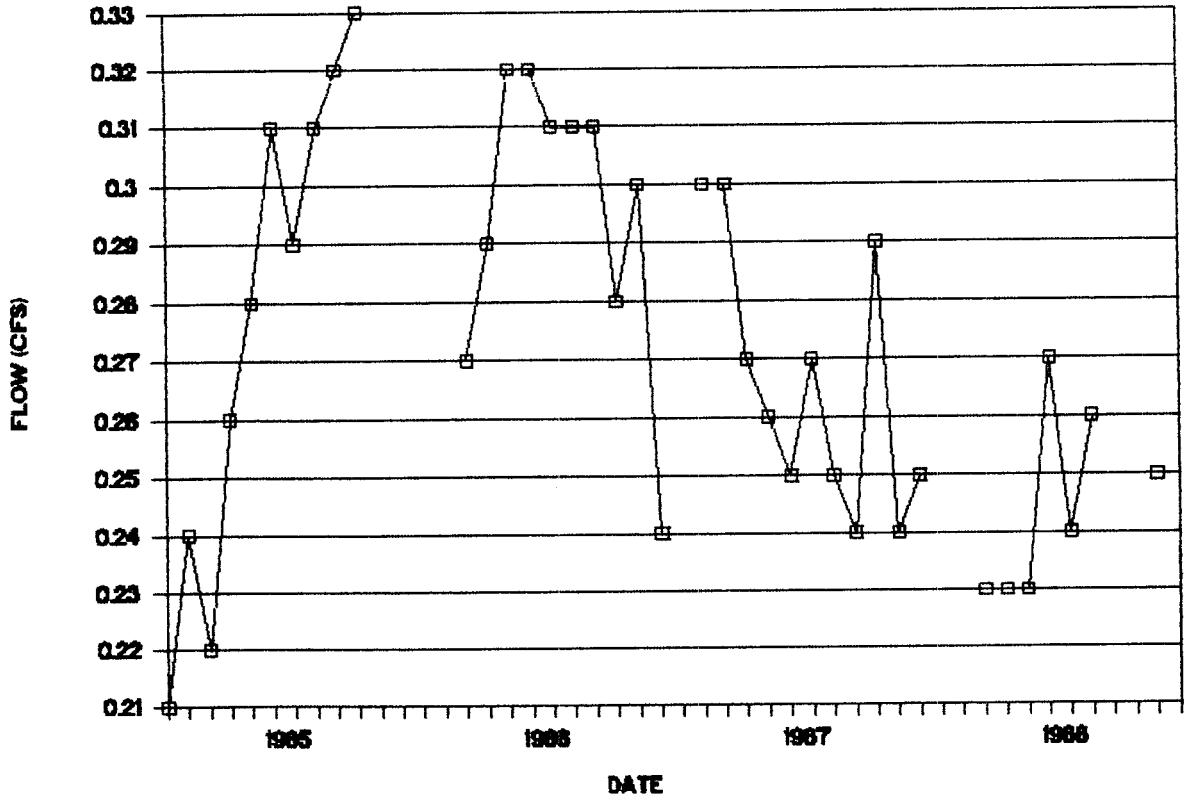

IRON/MANGANESE – SITE 15–3
CONCENTRATION (MG/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1985
1986
1987
1988
DATE
IRON – TOTAL
MANGANESE – TOTAL

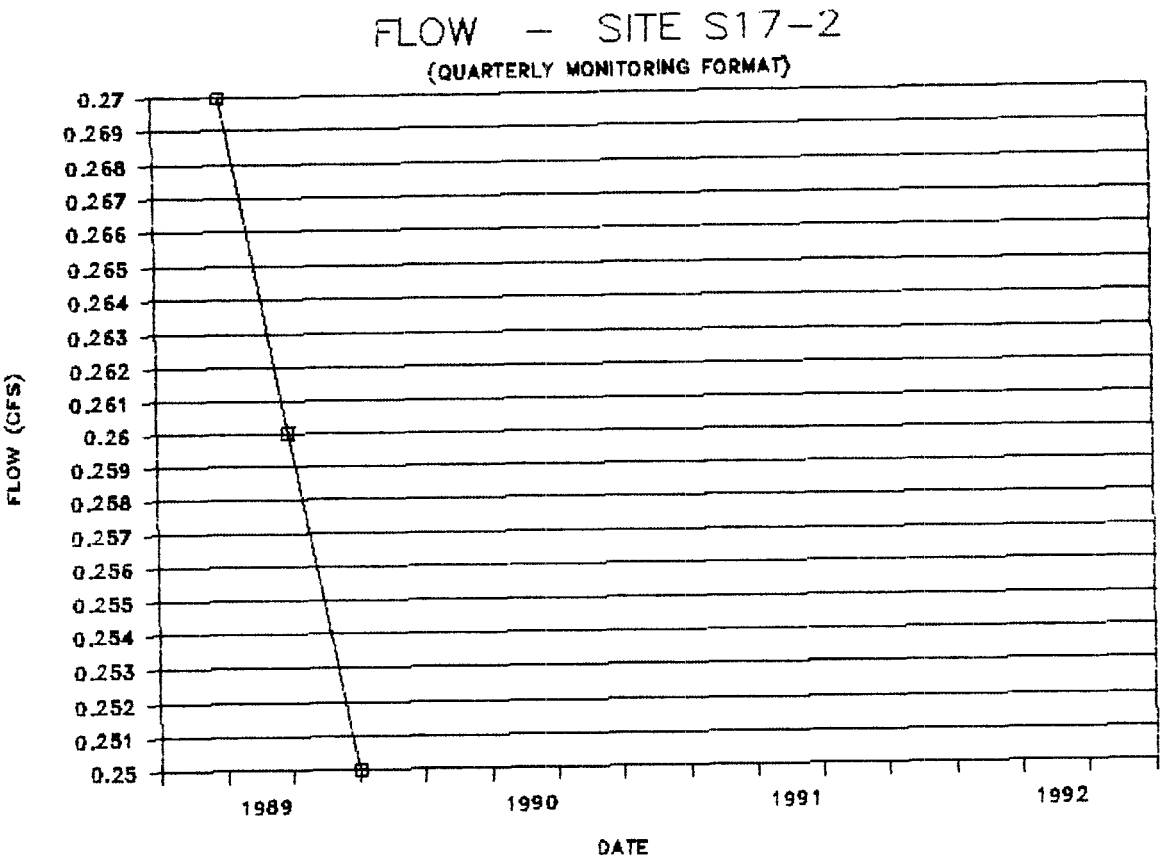

IRON/MANGANESE - SITE S15-3
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.03
0.029
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

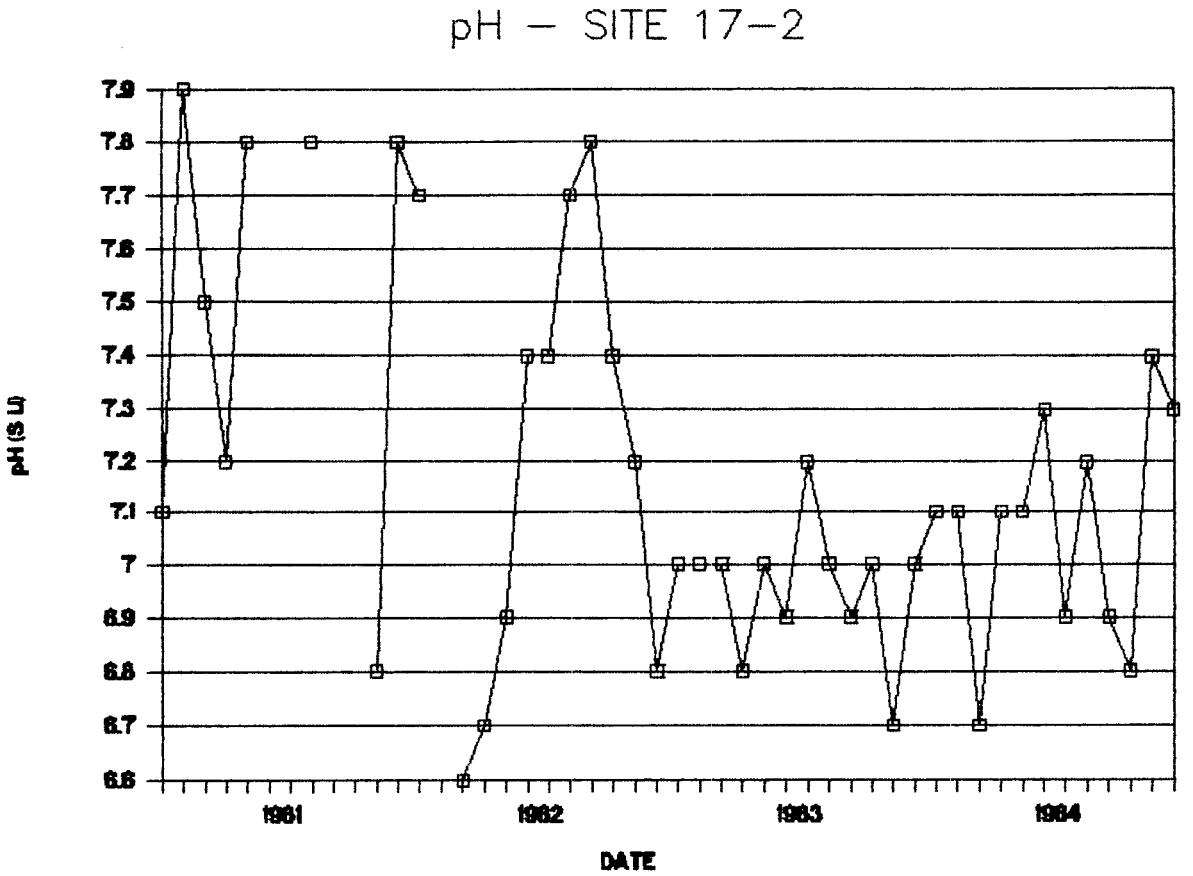
FLOW — SITE 17-2

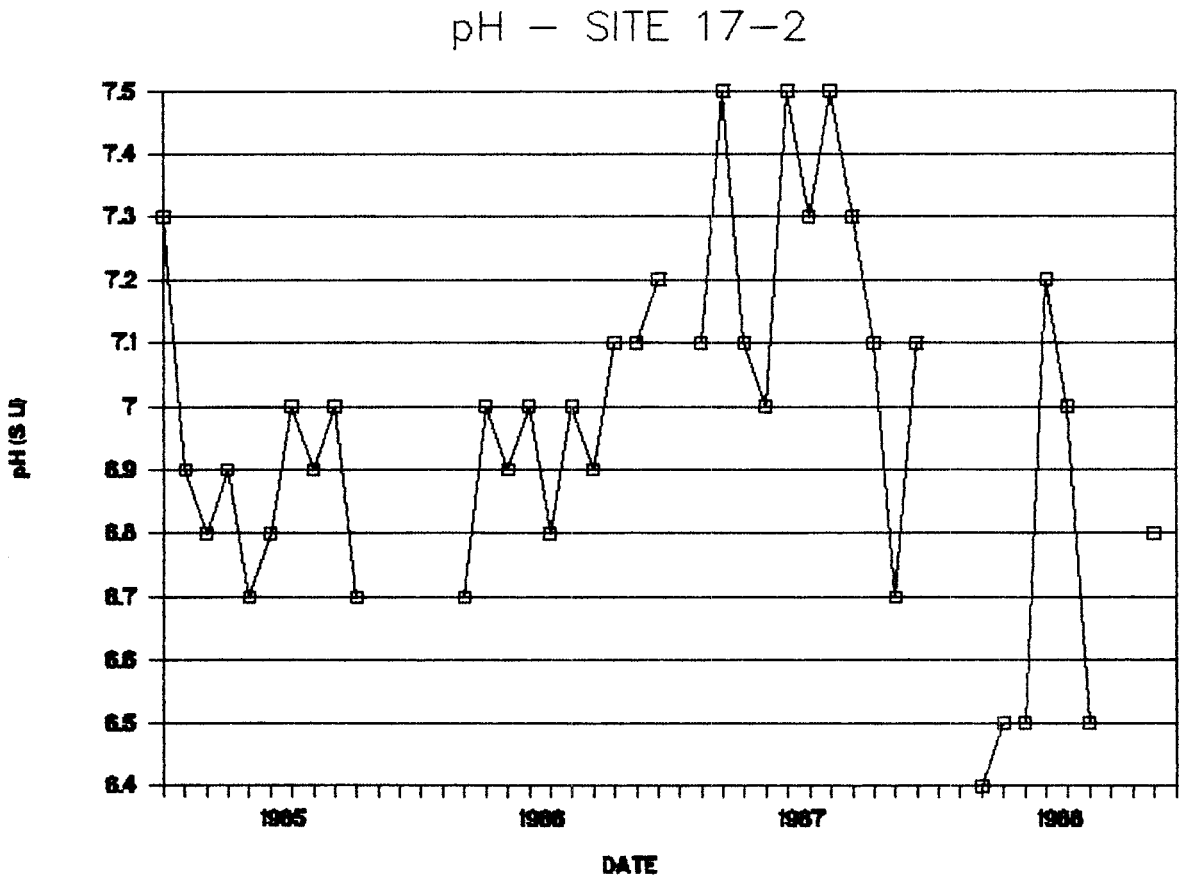


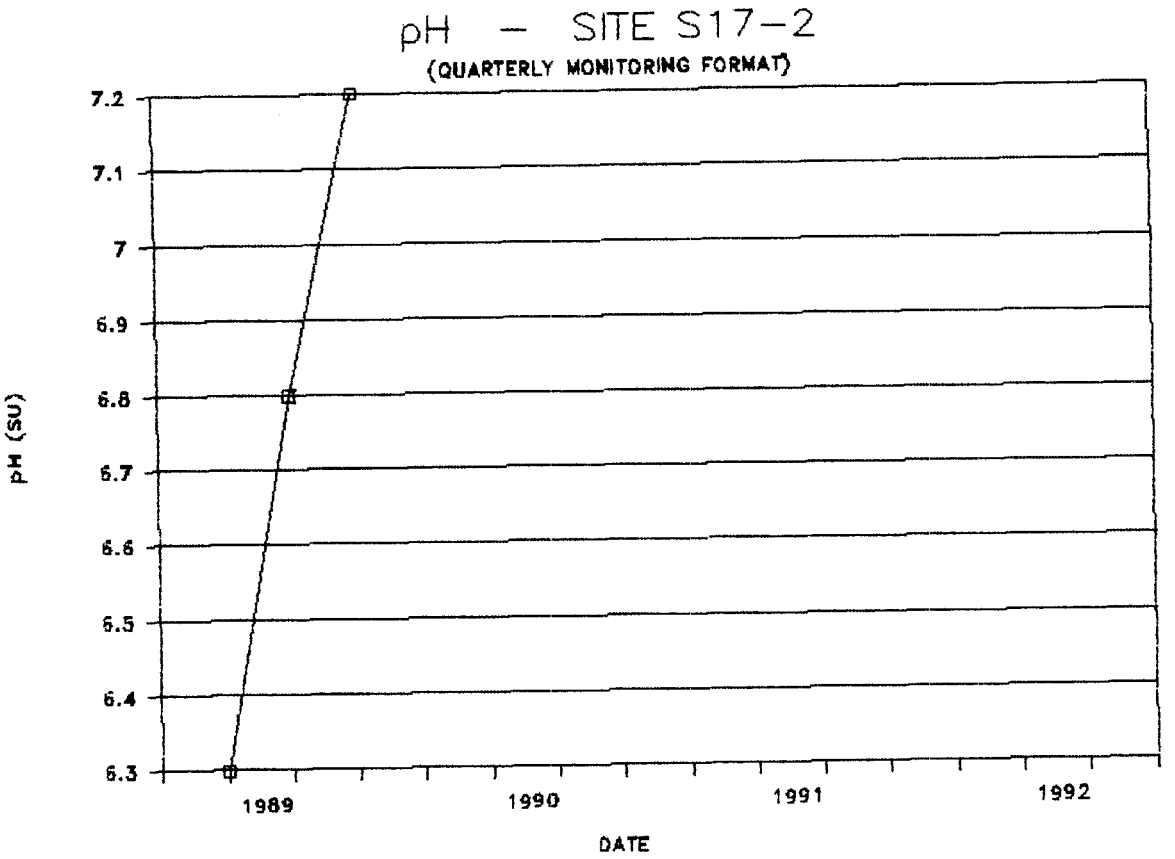
FLOW — SITE 17-2

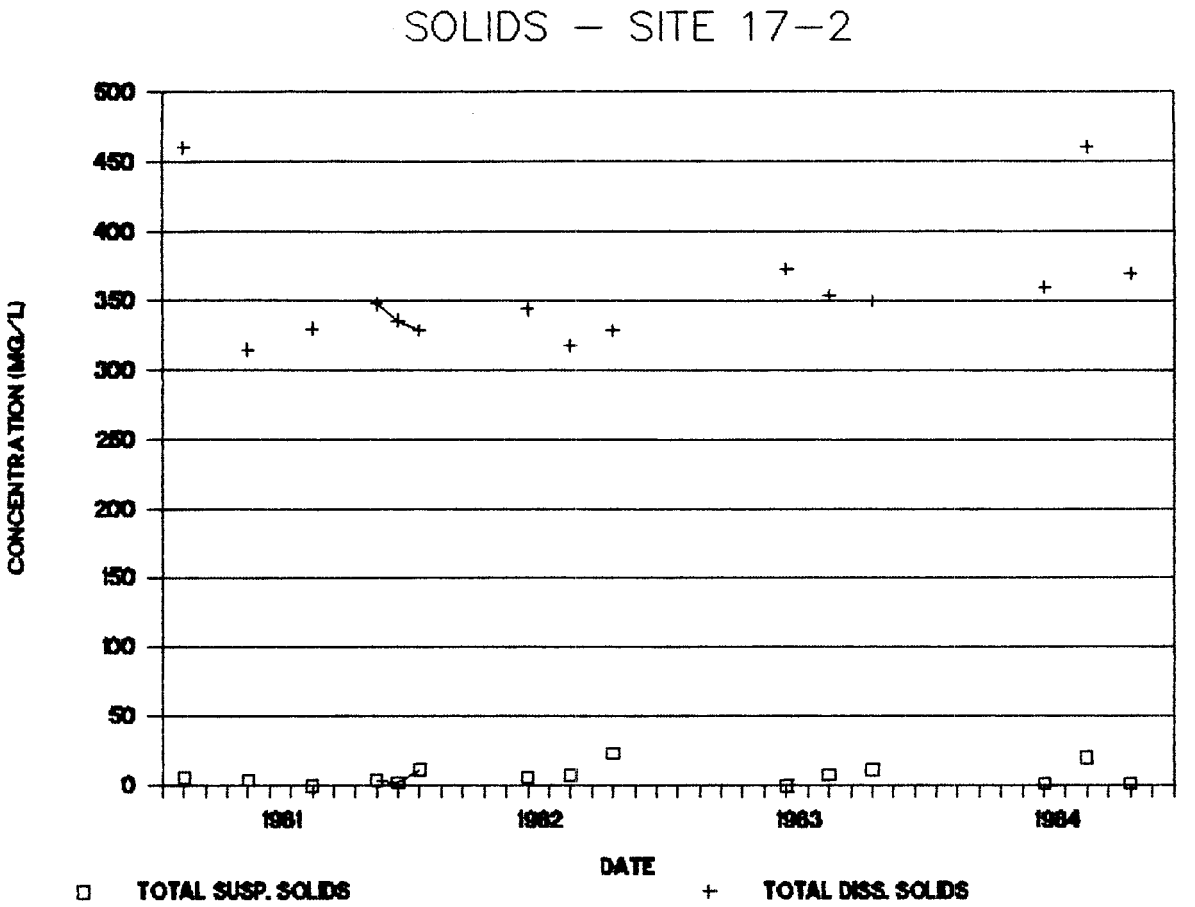


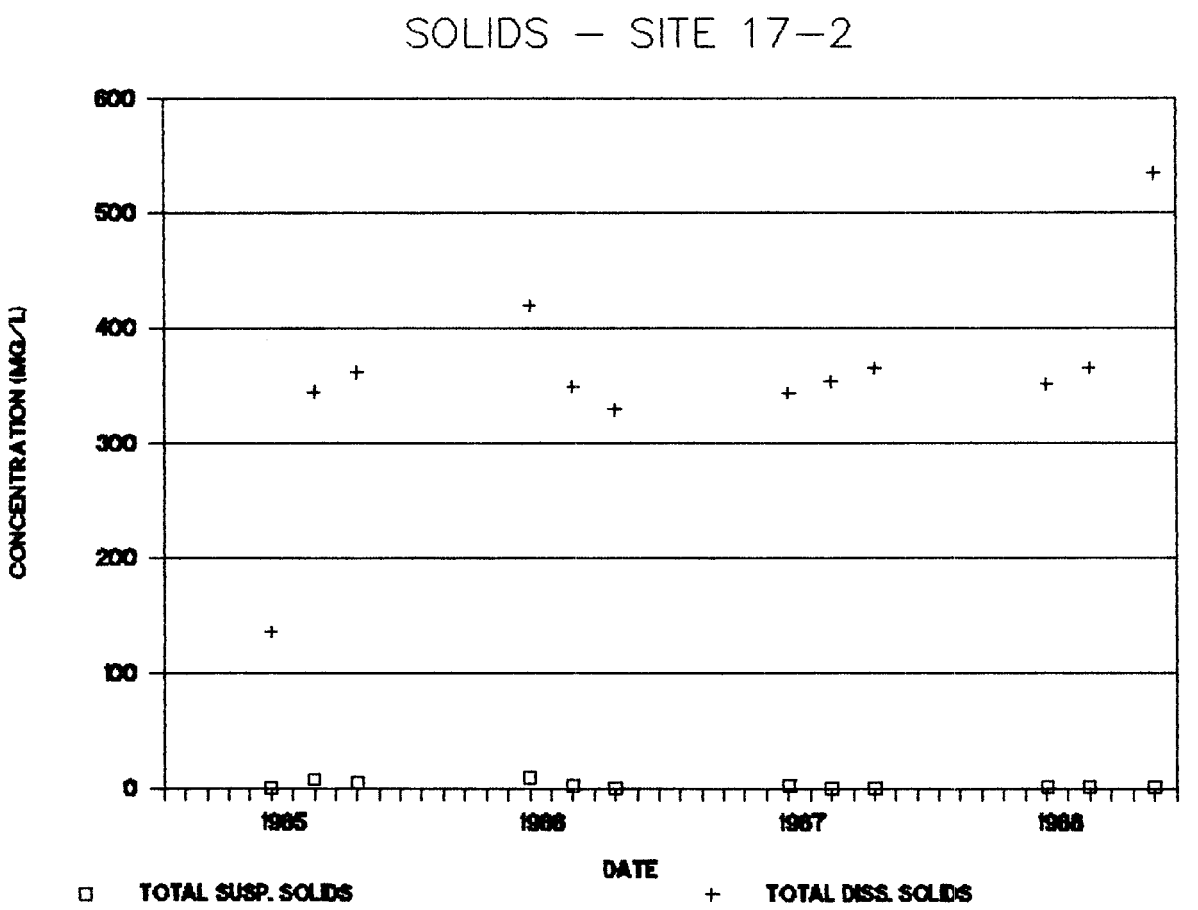

FLOW - SITE S17-2
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.27
0.269
0.268
0.267
0.266
0.265
0.264
0.263
0.262
0.261
0.26
0.259
0.258
0.257
0.256
0.255
0.254
0.253
0.252
0.251
0.25
1989
1990
1991
1992
DATE

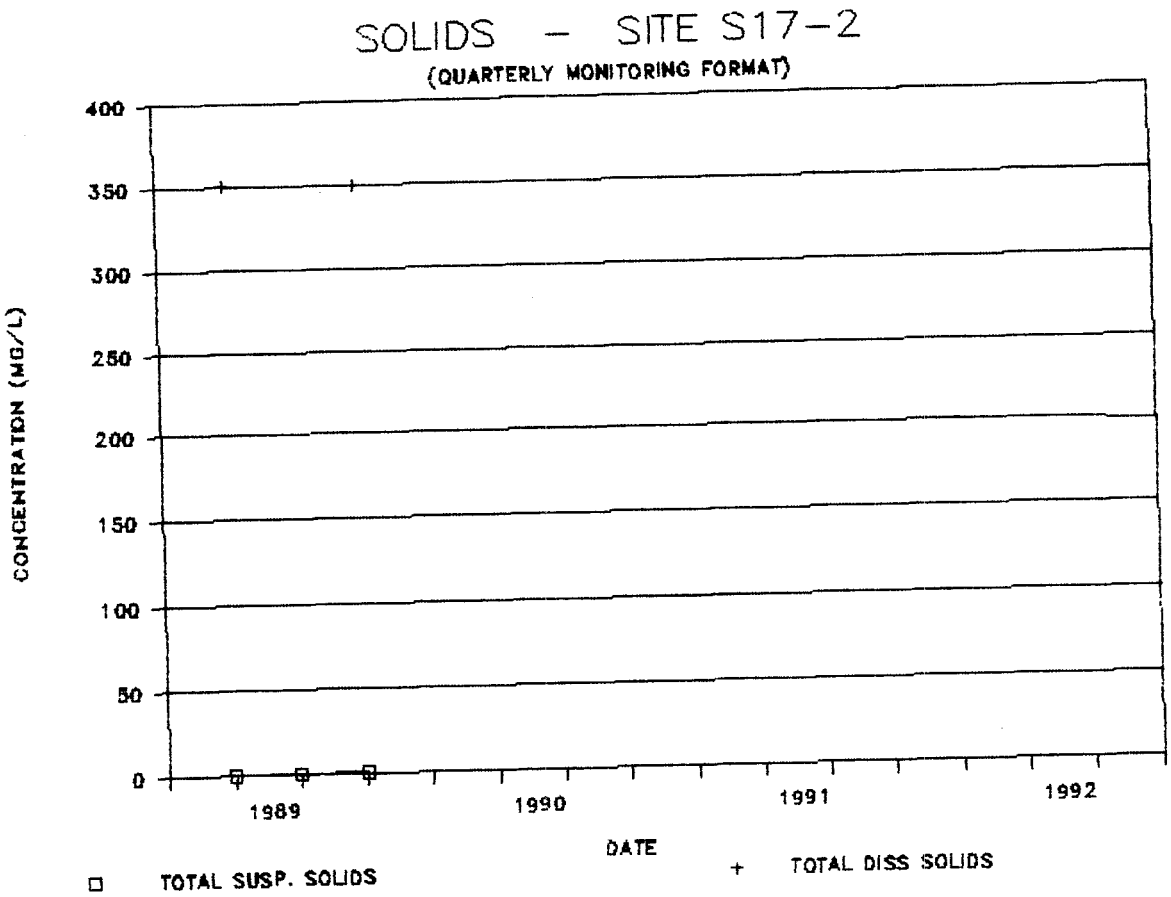

pH – SITE 17–2
pH (S U)
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
1981
1982
1983
1984
DATE

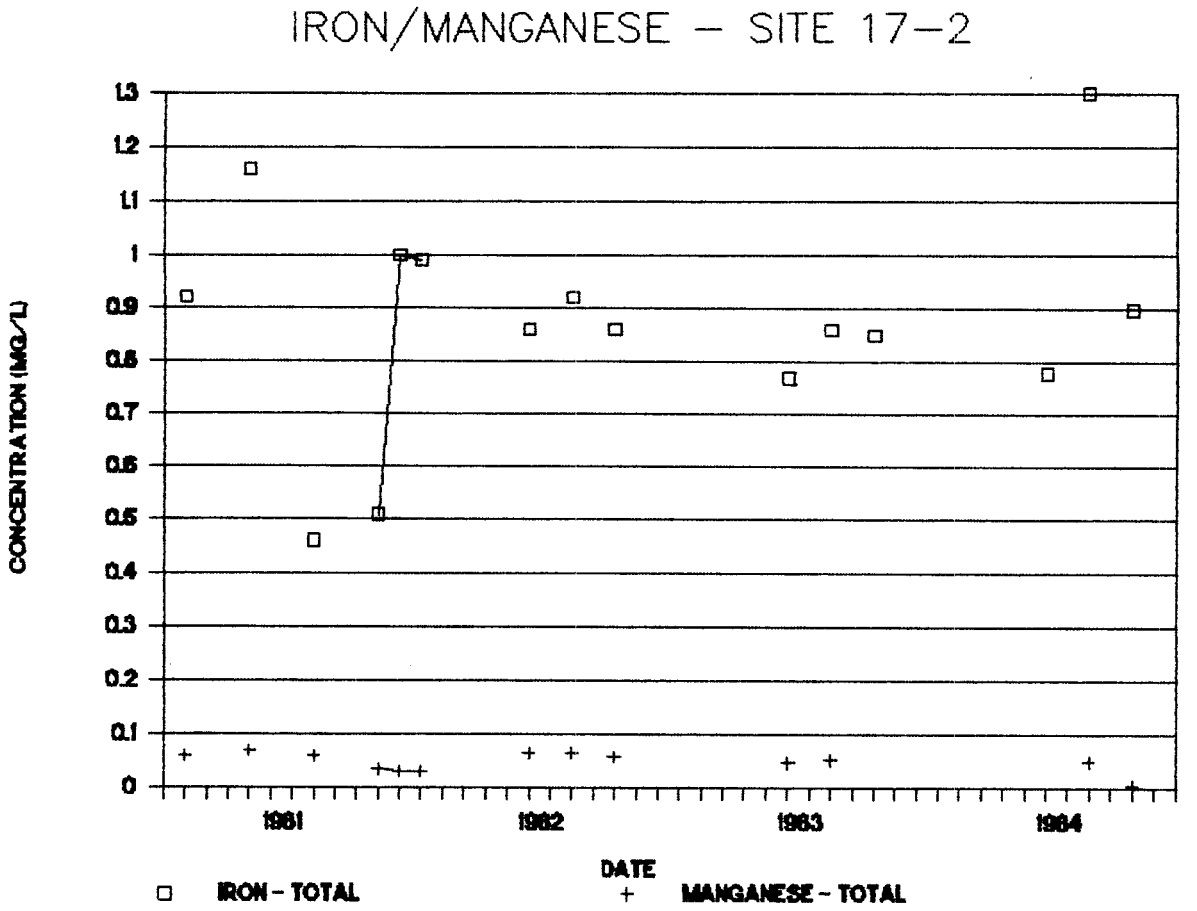

pH – SITE 17–2
pH (S U)
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
1985
1986
1987
1988
DATE

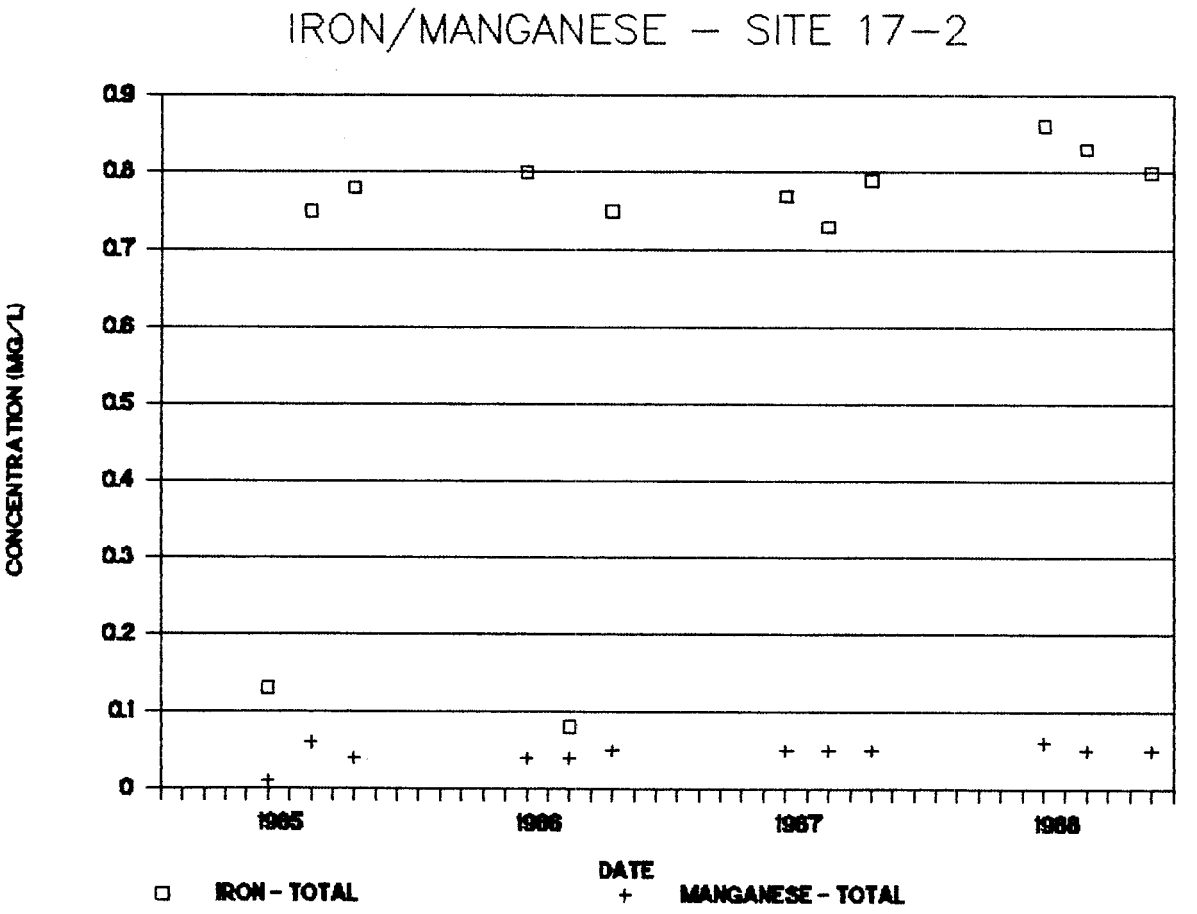

pH - SITE S17-2
(QUARTERLY MONITORING FORMAT)
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
6.3
pH (SU)
1989
1990
1991
1992
DATE

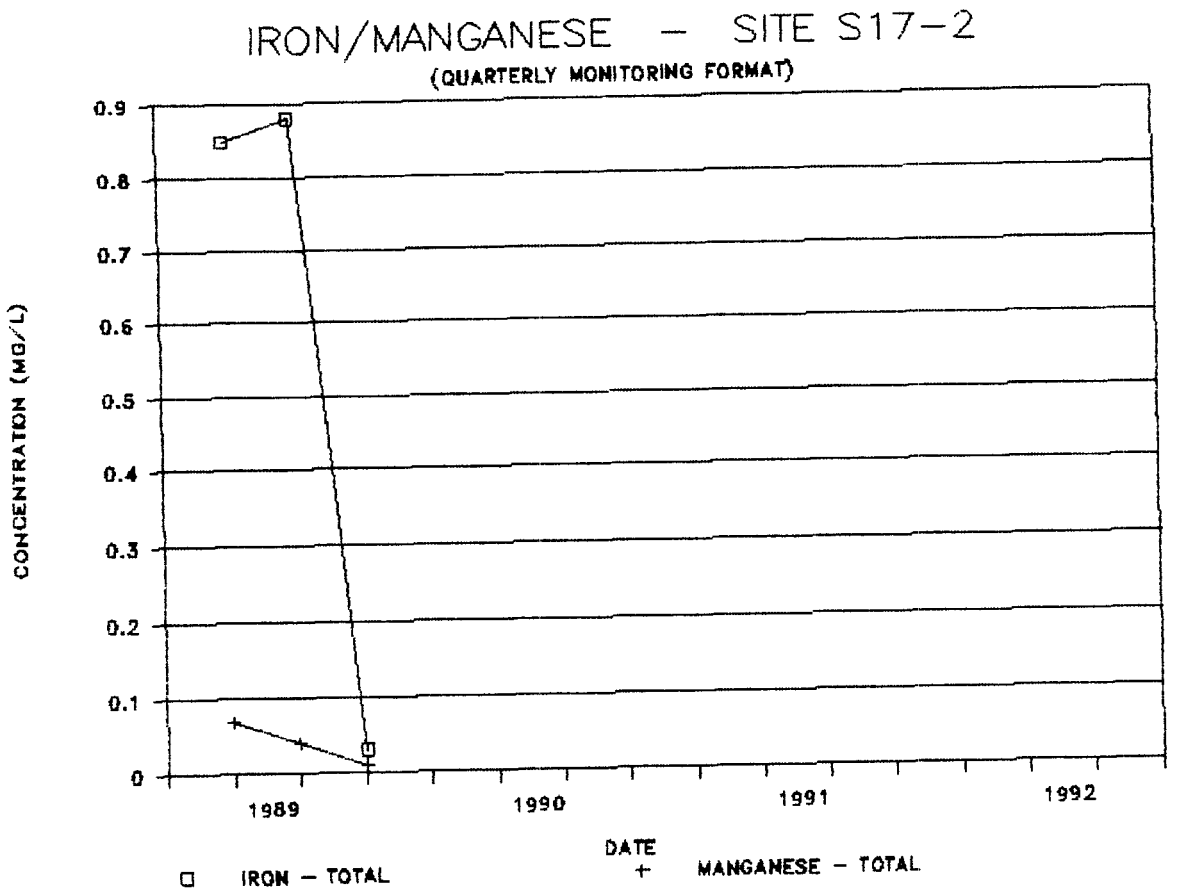

SOLIDS – SITE 17–2
CONCENTRATION (MG/L)
500
450
400
350
300
250
200
150
100
50
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


SOLIDS – SITE 17–2
CONCENTRATION (MG/L)
600
500
400
300
200
100
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

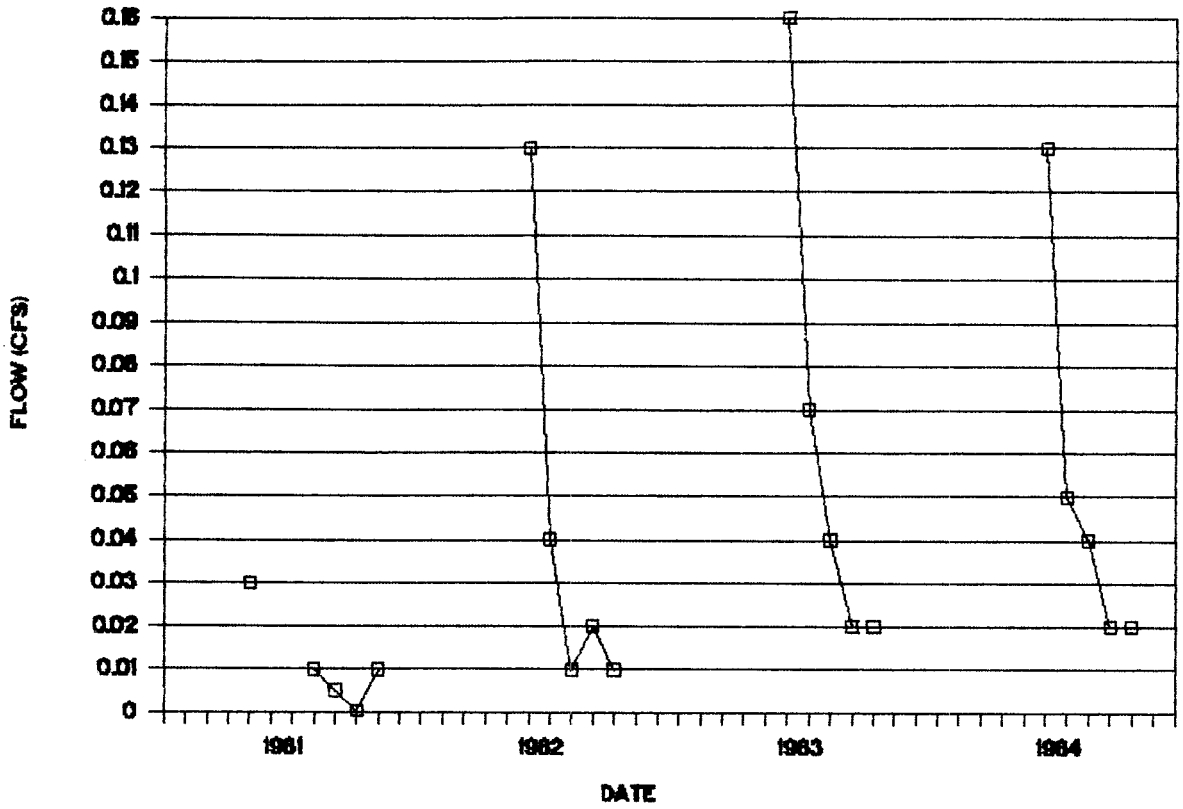

SOLIDS - SITE S17-2
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
400
350
300
250
200
150
100
50
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS SOLIDS


IRON/MANGANESE – SITE 17–2
CONCENTRATION (MG/L)
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1981
1982
1983
1984
DATE
IRON – TOTAL
MANGANESE – TOTAL

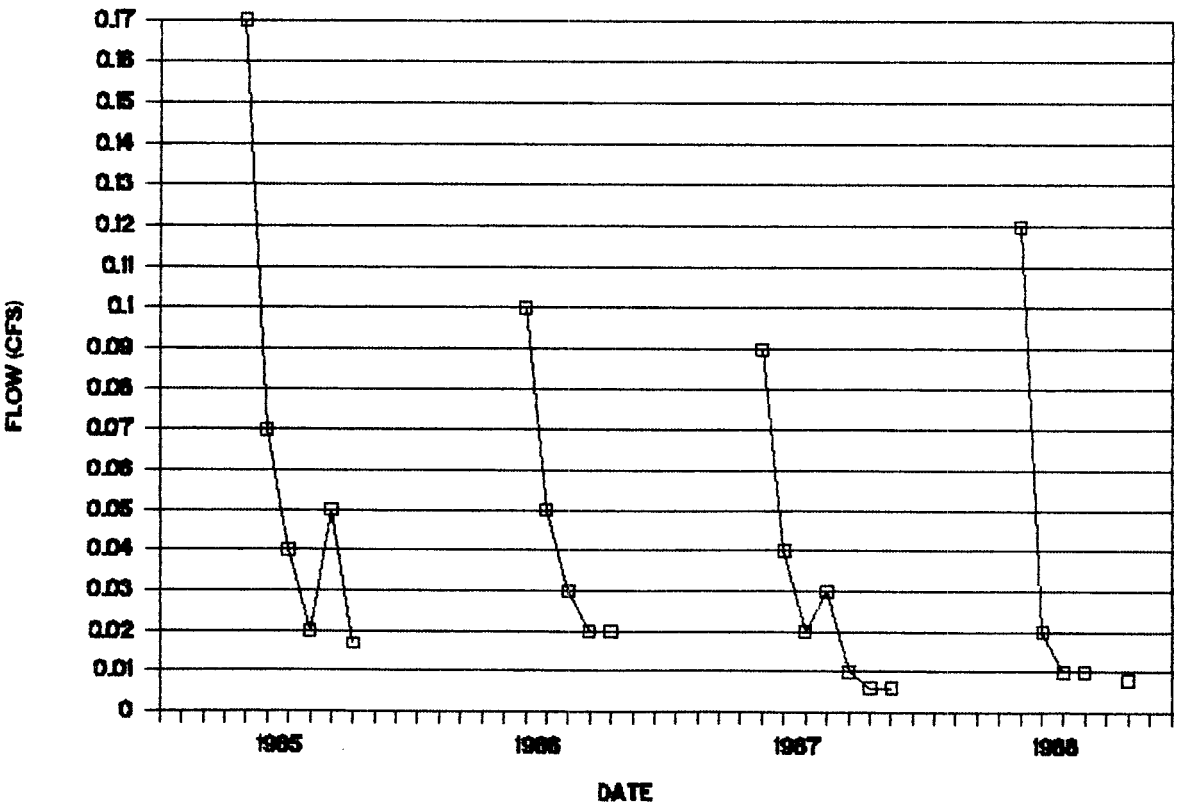

IRON/MANGANESE – SITE 17–2
CONCENTRATION (MG/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1985
1986
1987
1988
DATE
IRON – TOTAL
MANGANESE – TOTAL

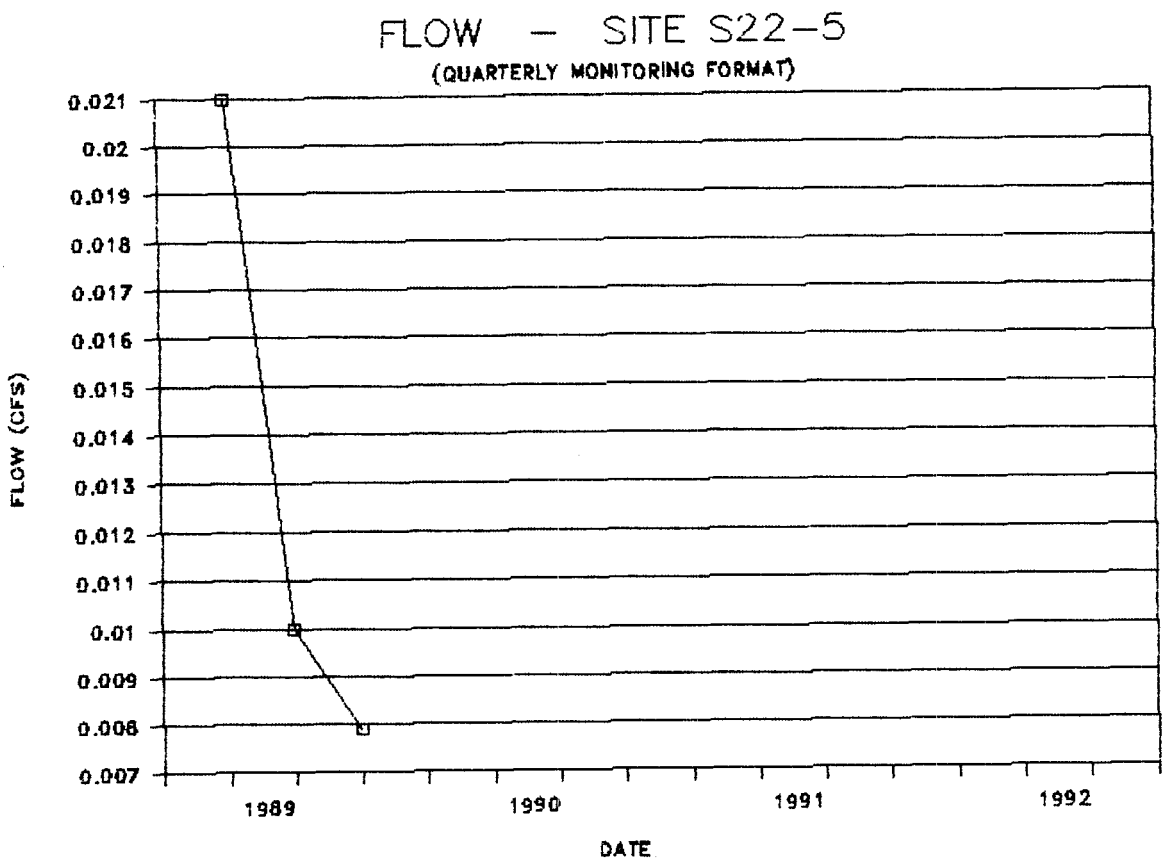

IRON/MANGANESE - SITE S17-2
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

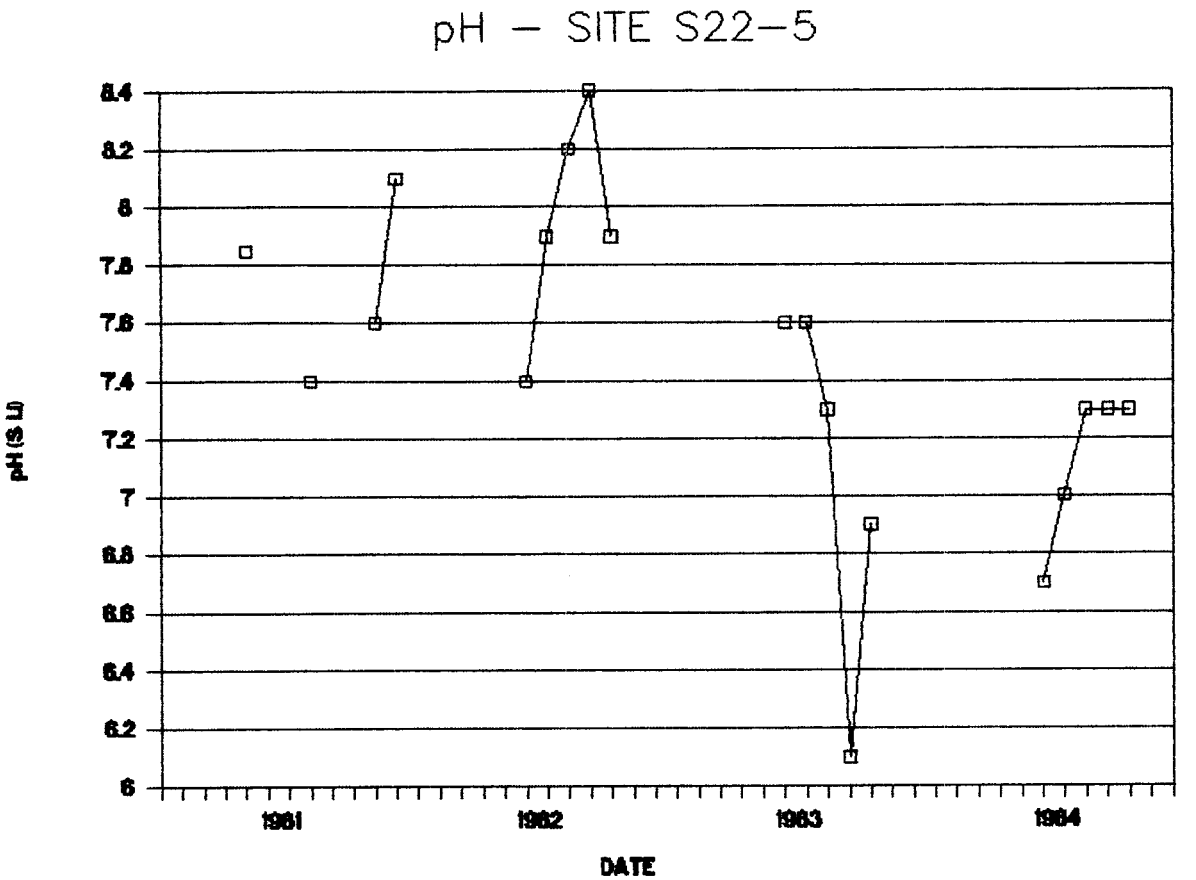
FLOW — SITE S22—5

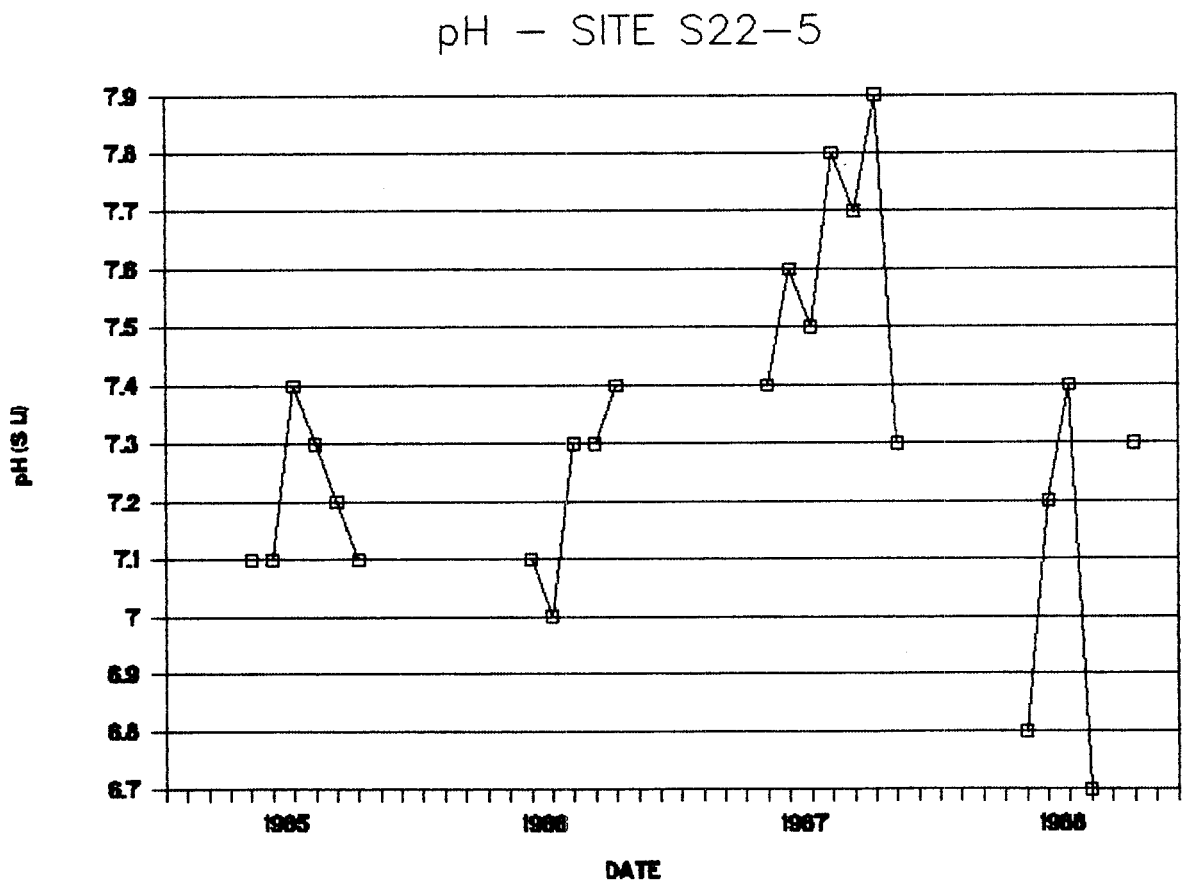


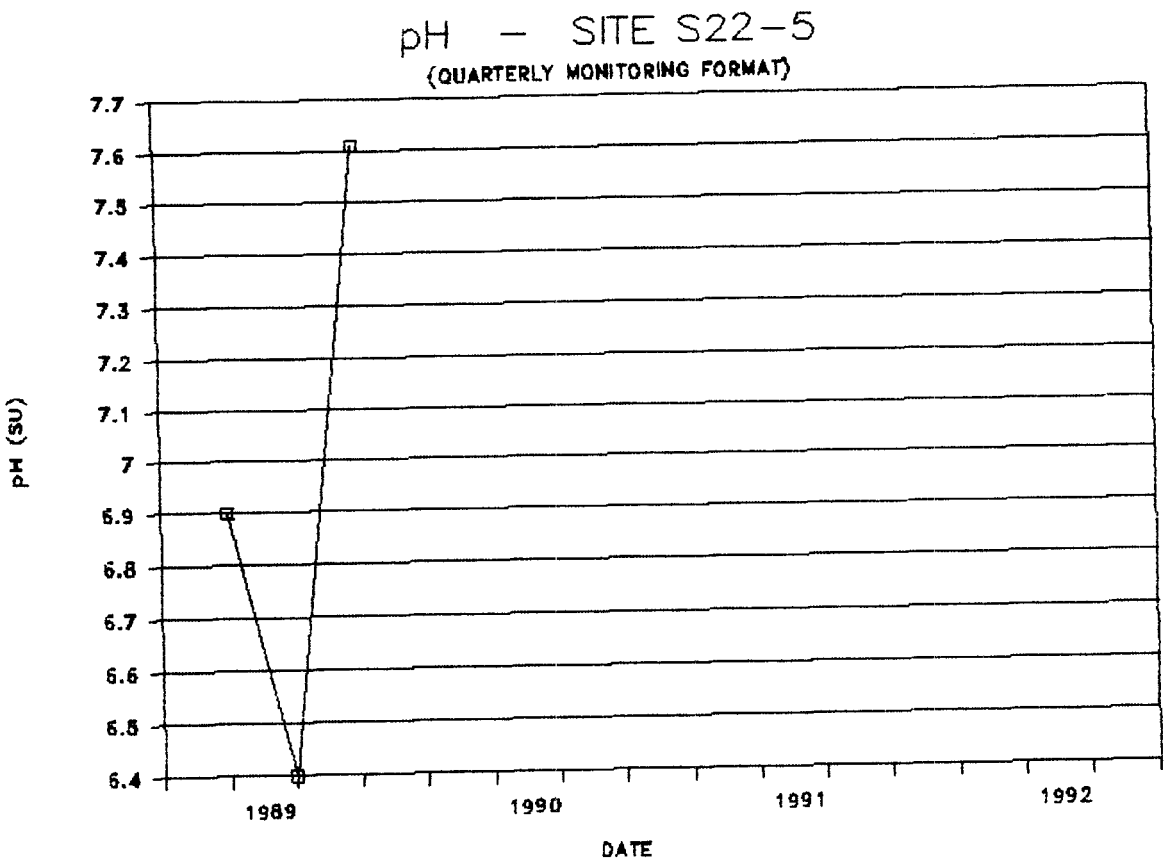
FLOW — SITE S22—5



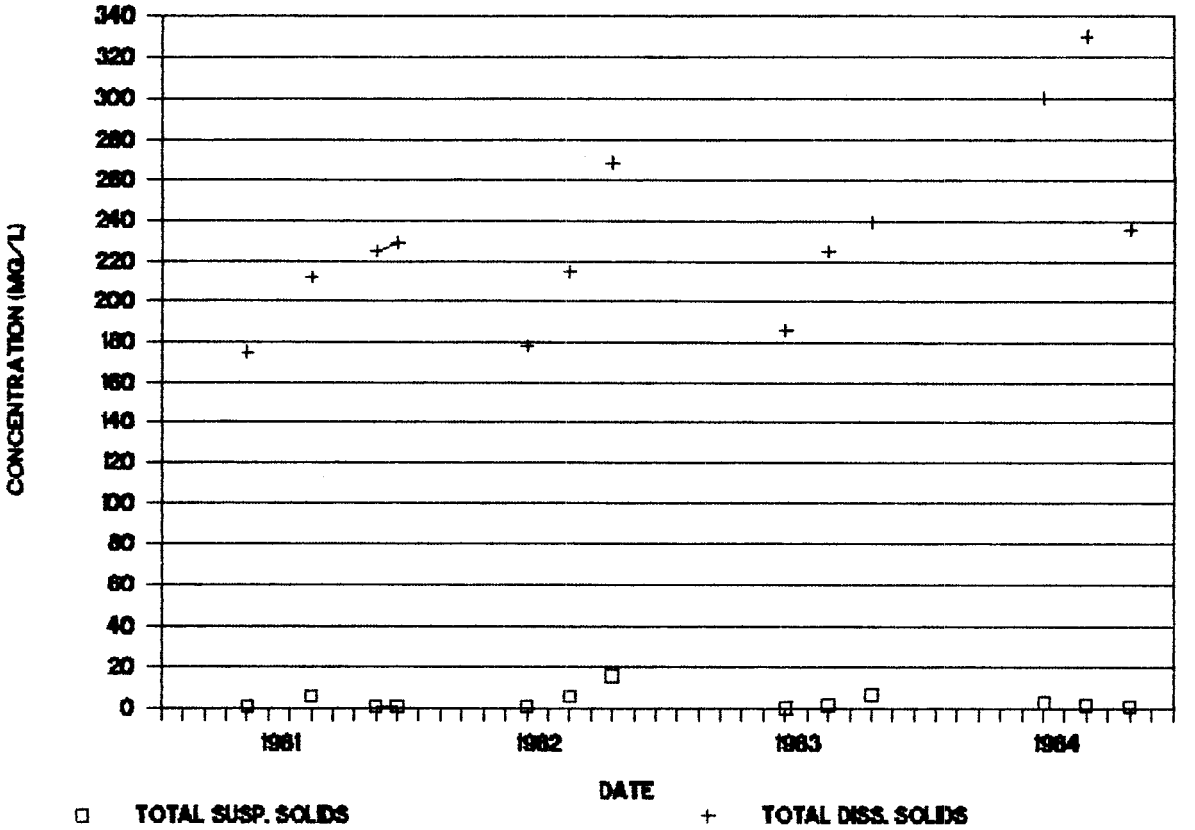

FLOW - SITE S22-5
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
1989
1990
1991
1992
DATE


pH – SITE S22–5
8.4
8.2
8
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4
6.2
6
pH (S.U.)
1981
1982
1983
1984
DATE

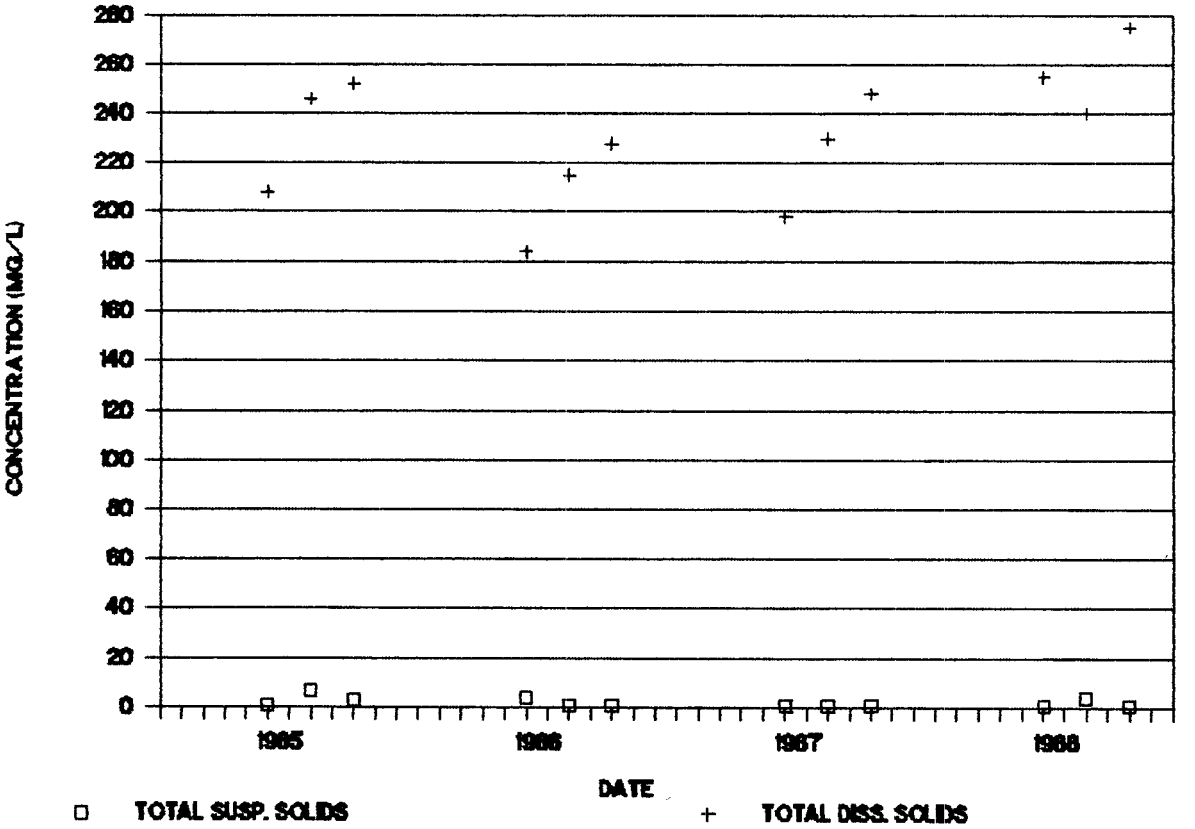

pH – SITE S22–5
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
pH (S.U.)
1985
1986
1987
1988
DATE

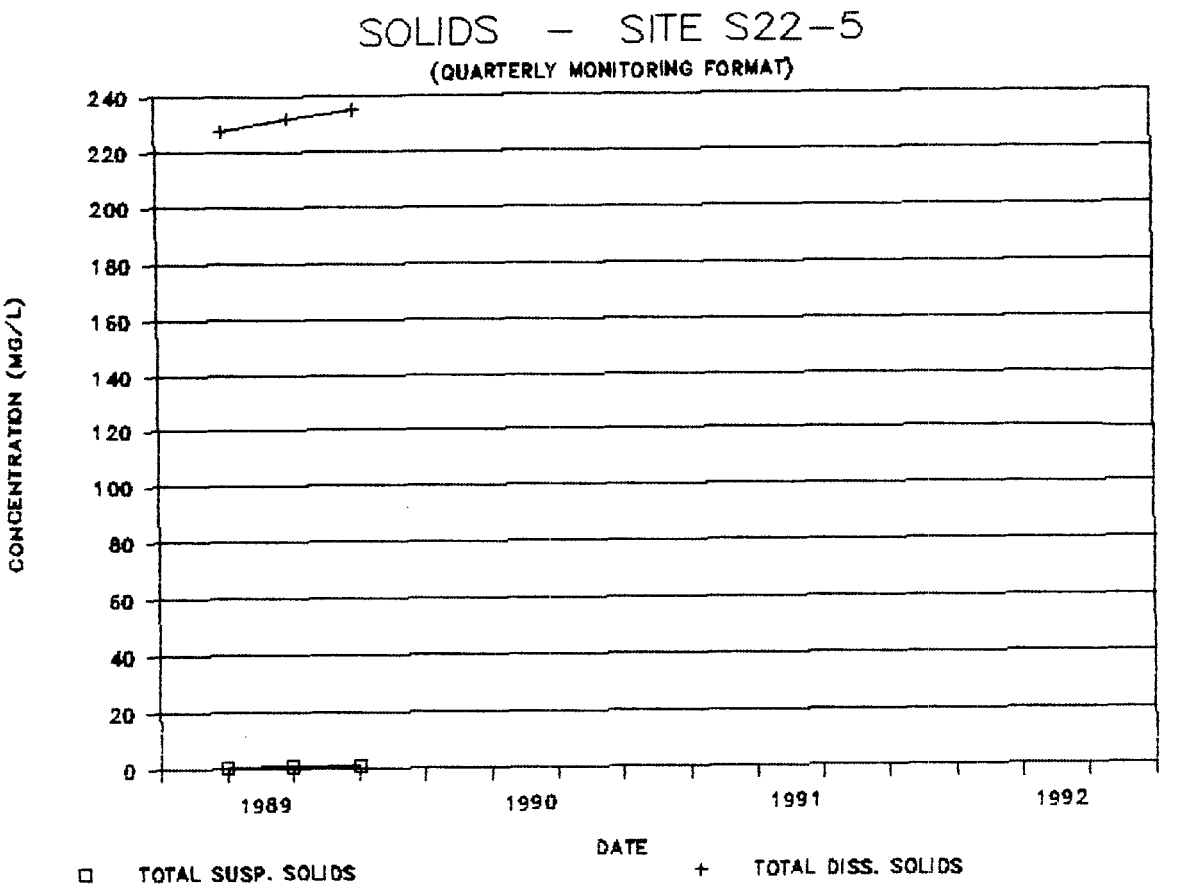

pH - SITE S22-5
(QUARTERLY MONITORING FORMAT)
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
pH (SU)
1989
1990
1991
1992
DATE

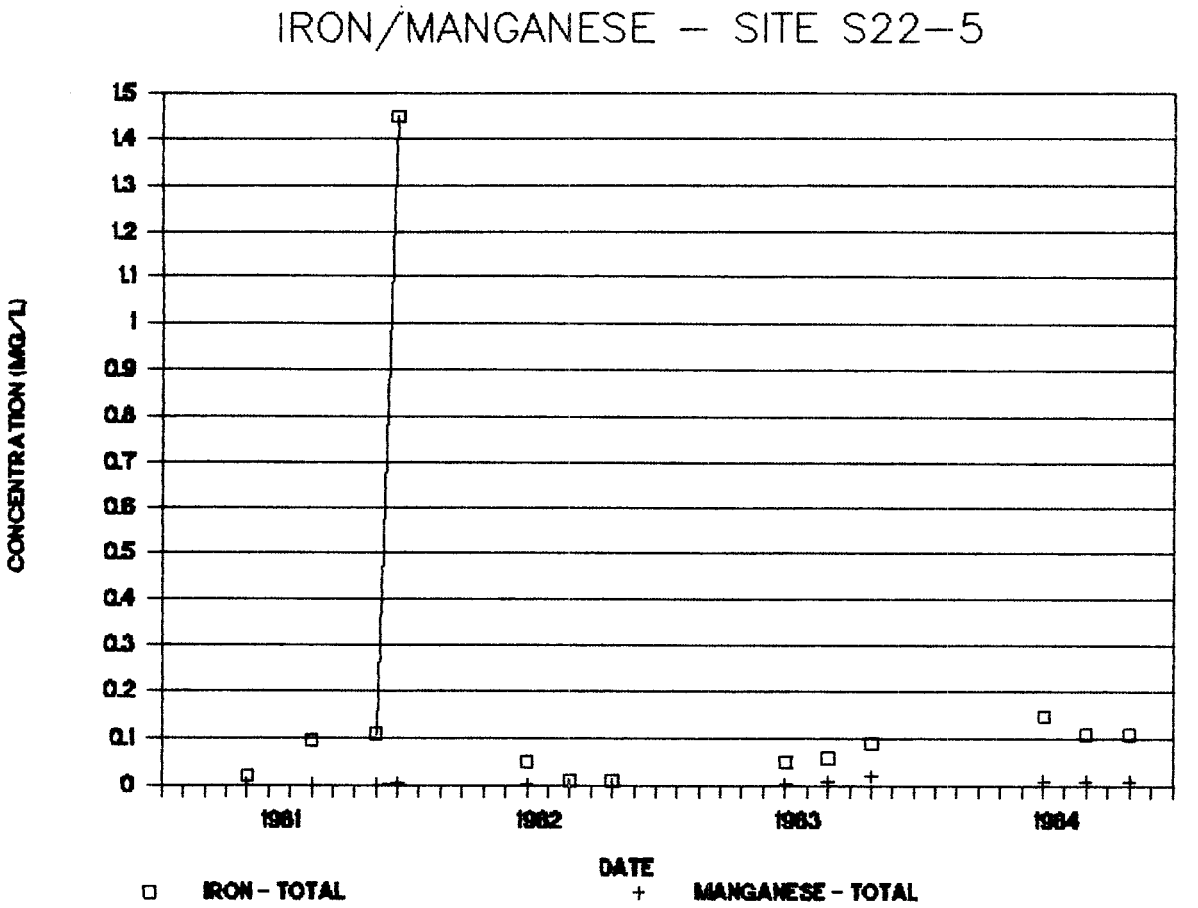
SOLIDS – SITE S22-5

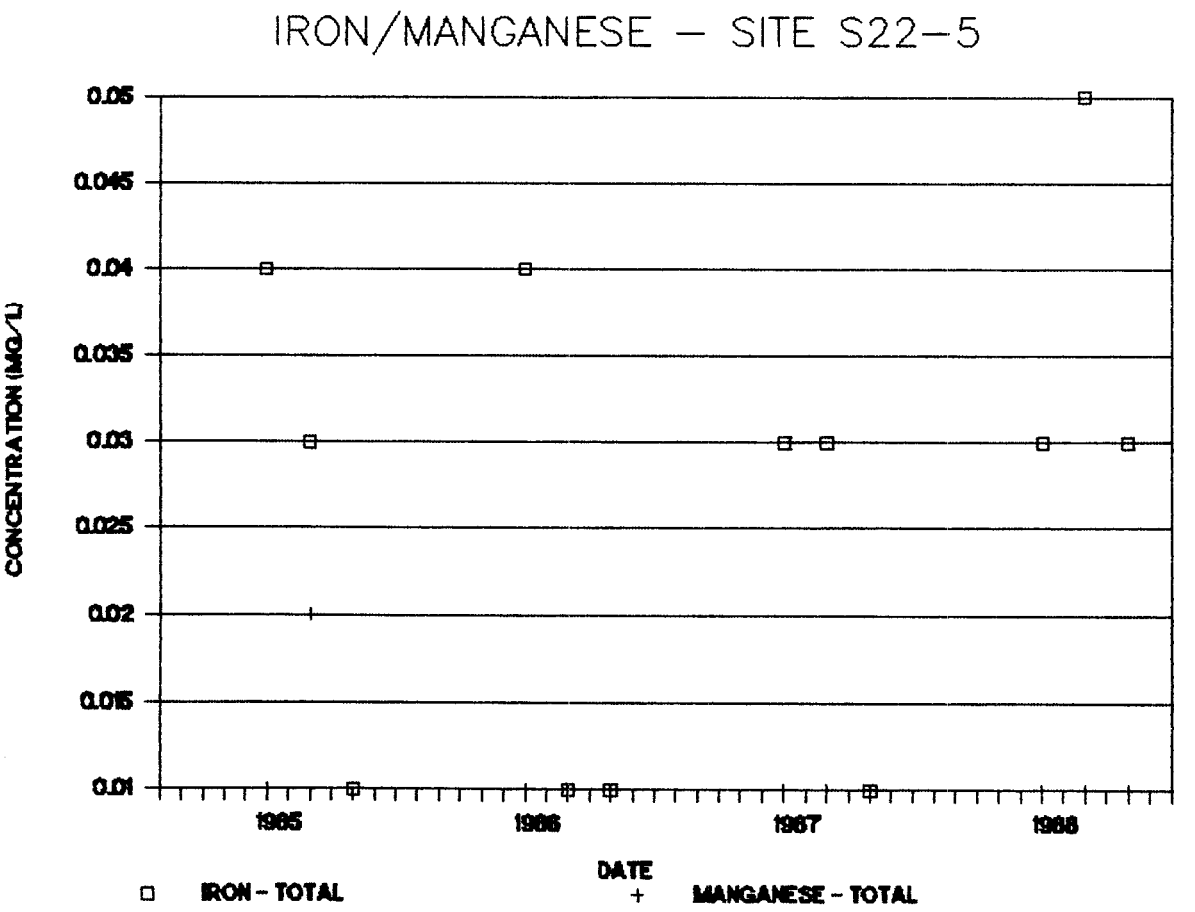


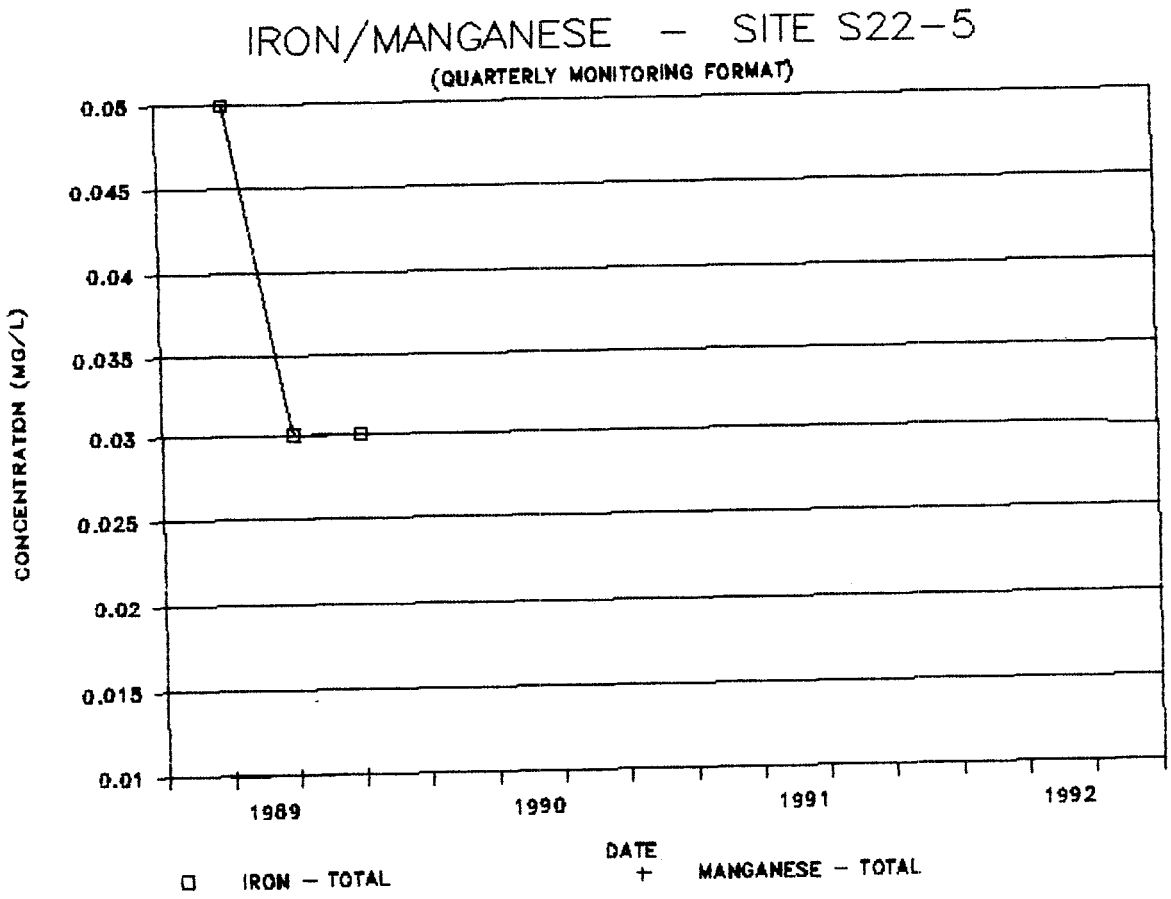
SOLIDS – SITE S22-5



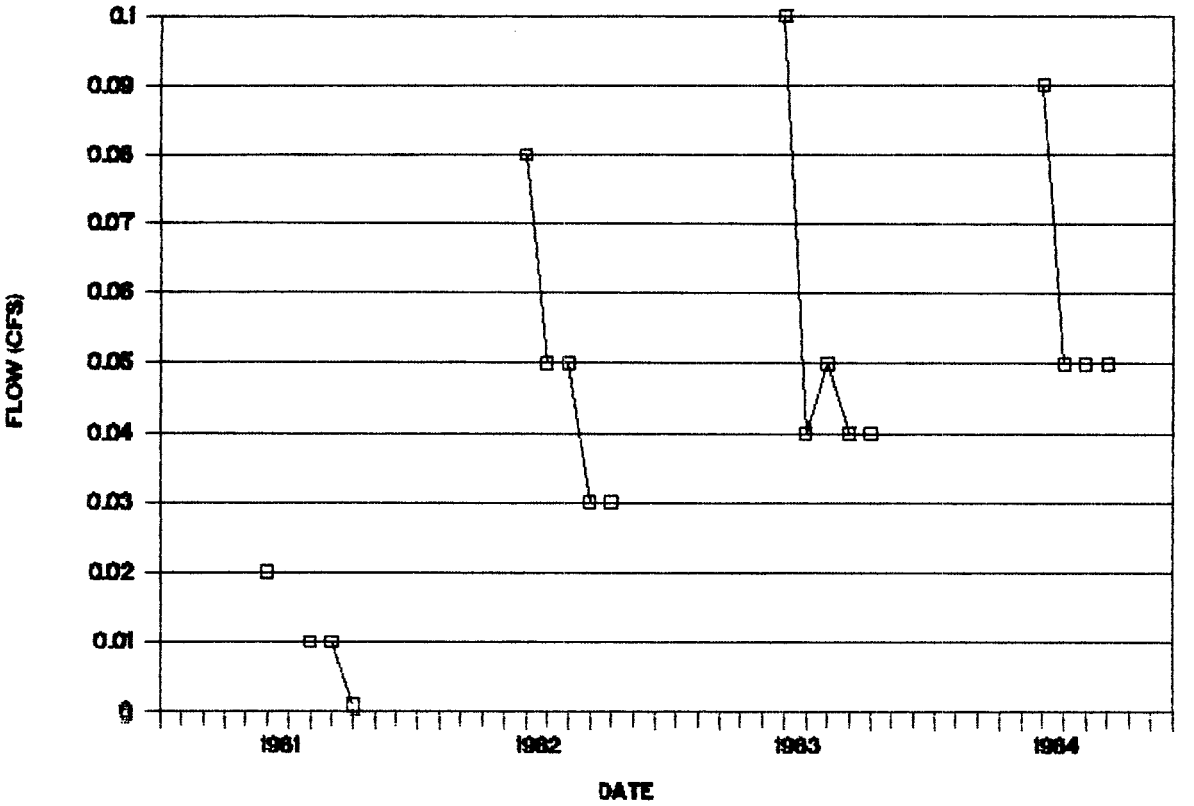

SOLIDS - SITE S22-5
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


IRON/MANGANESE – SITE S22–5
CONCENTRATION (MG/L)
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1981
1982
1983
1984
DATE
IRON - TOTAL
MANGANESE - TOTAL

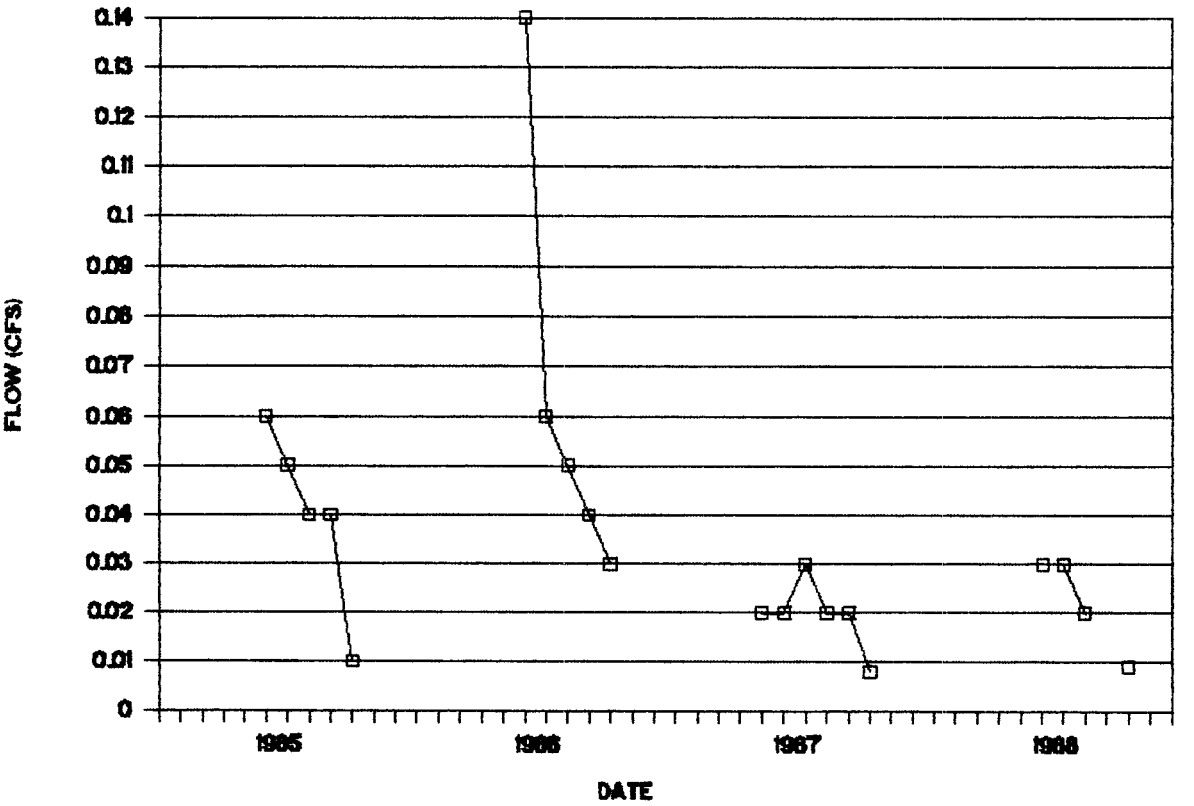

IRON/MANGANESE – SITE S22–5
CONCENTRATION (MG/L)
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
1985
1986
1987
1988
DATE
IRON - TOTAL
MANGANESE - TOTAL

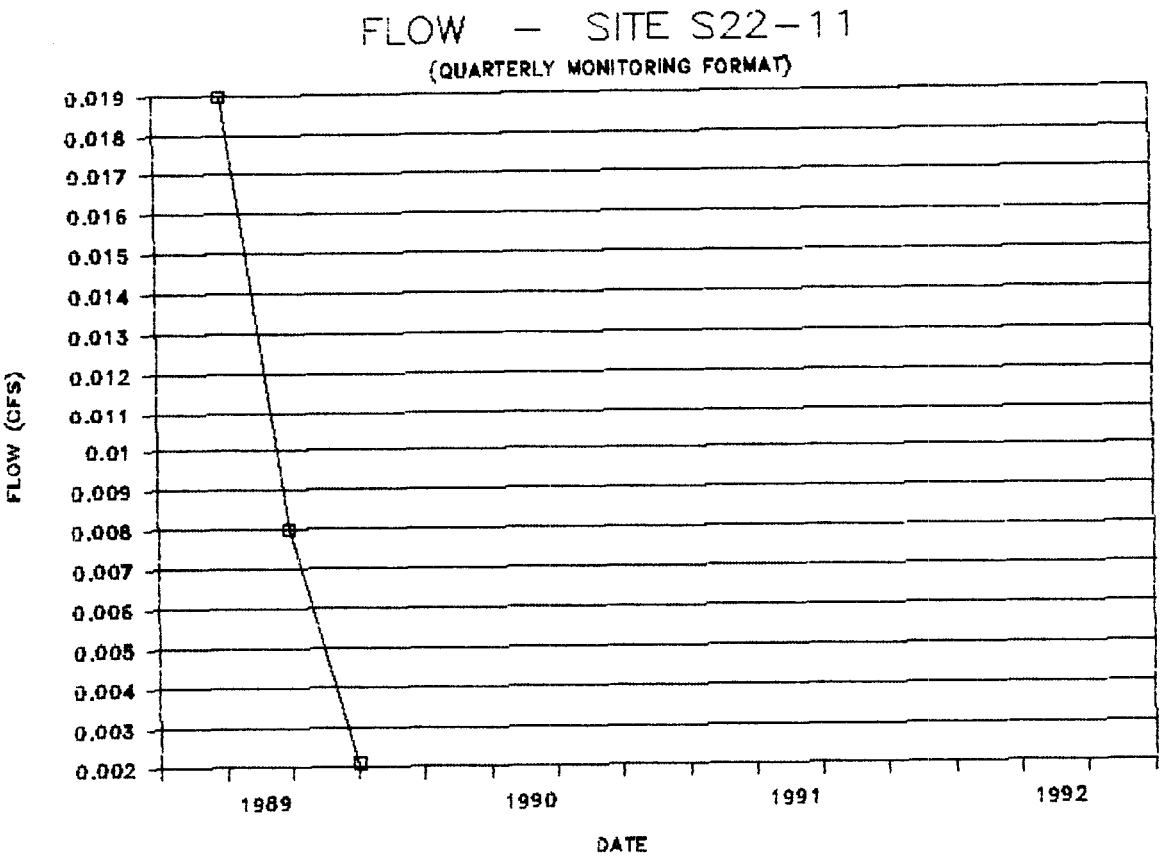

IRON/MANGANESE - SITE S22-5
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

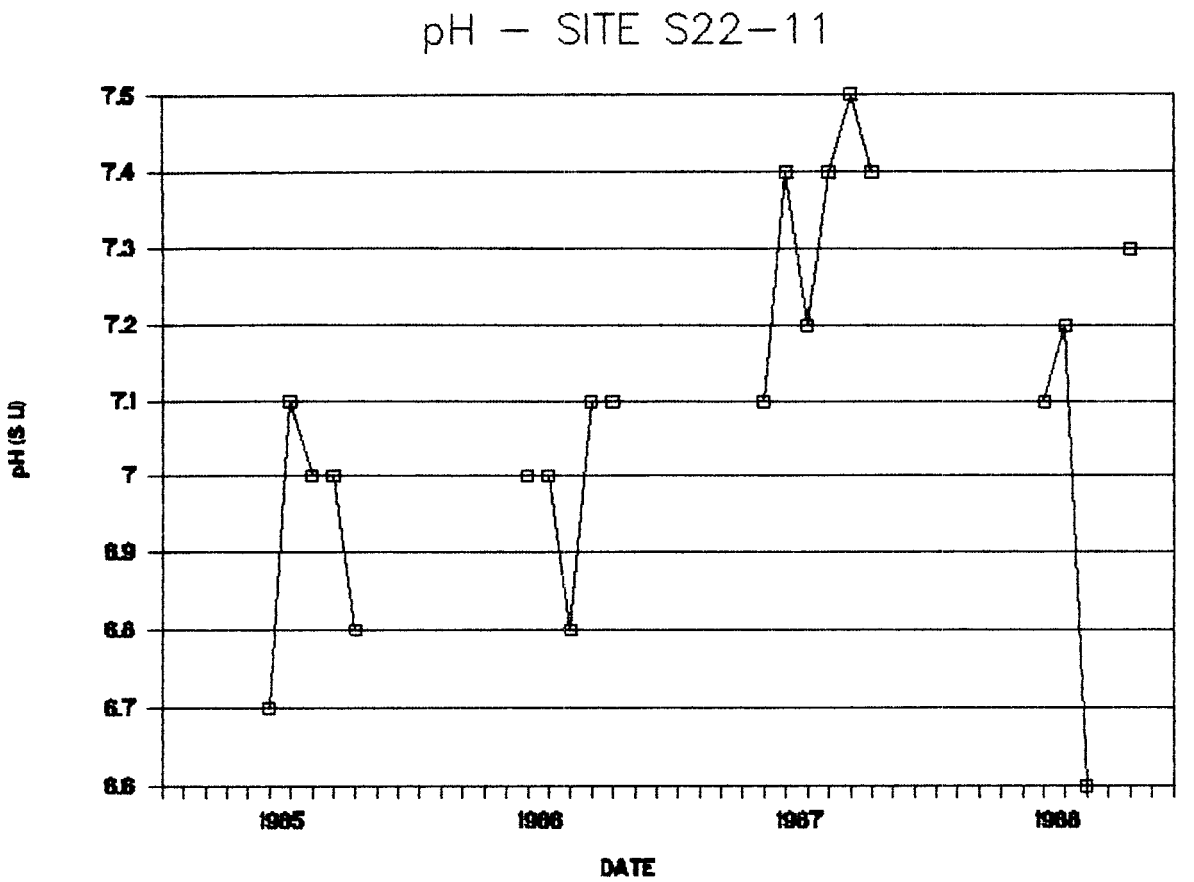
FLOW — SITE S22-11

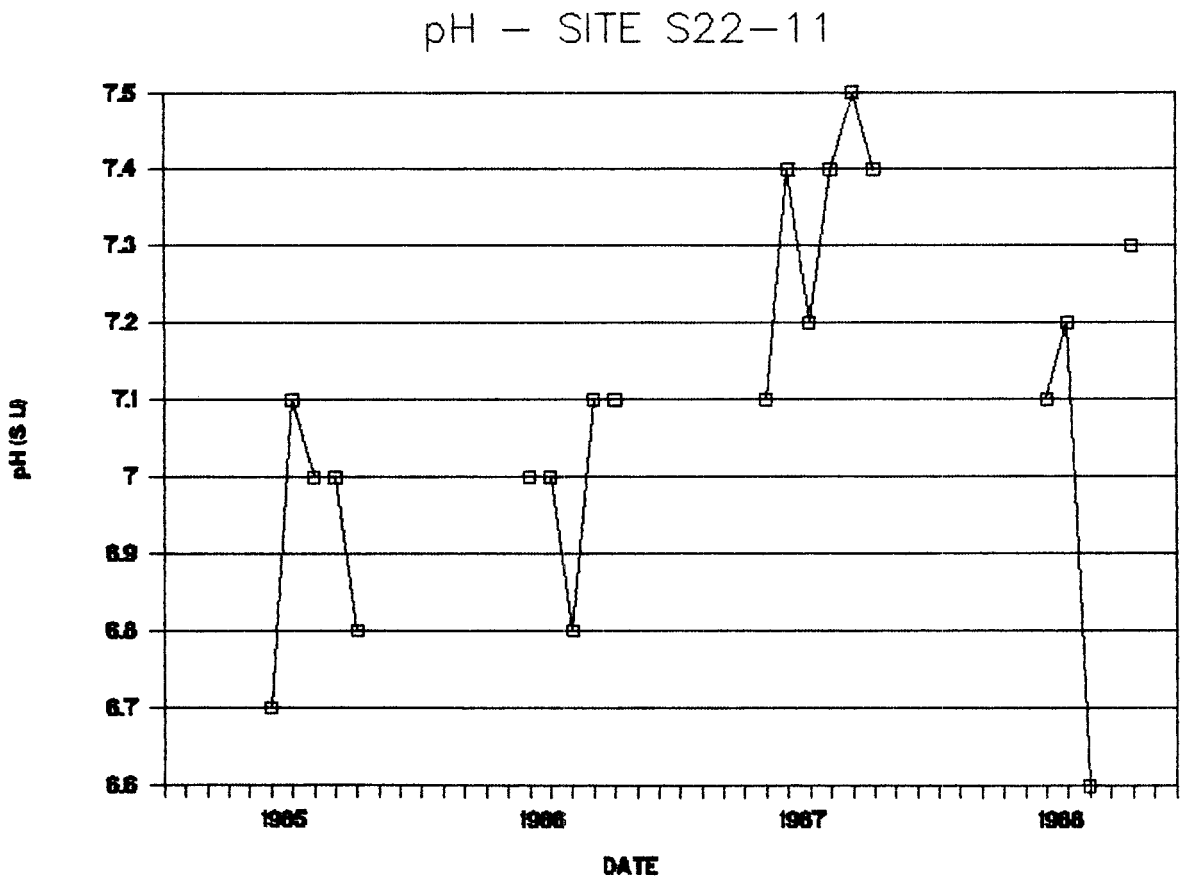


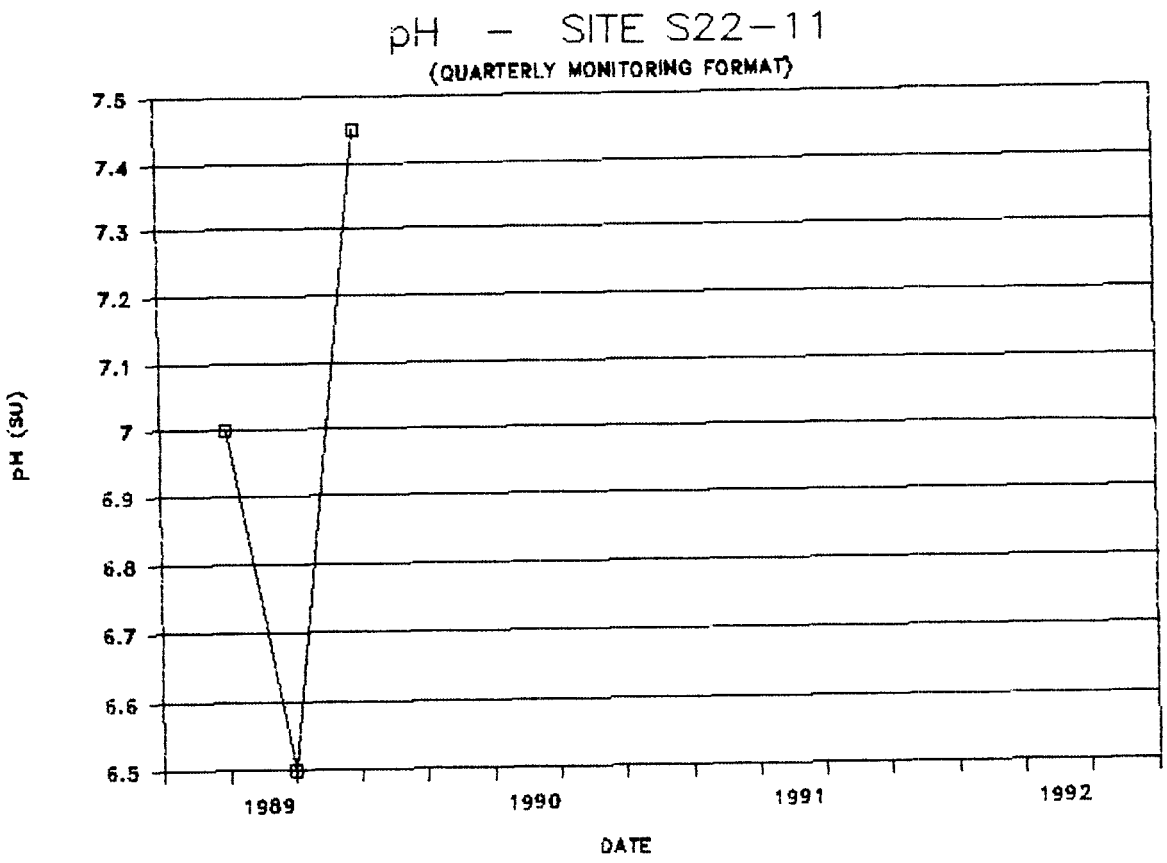
FLOW — SITE S22-11

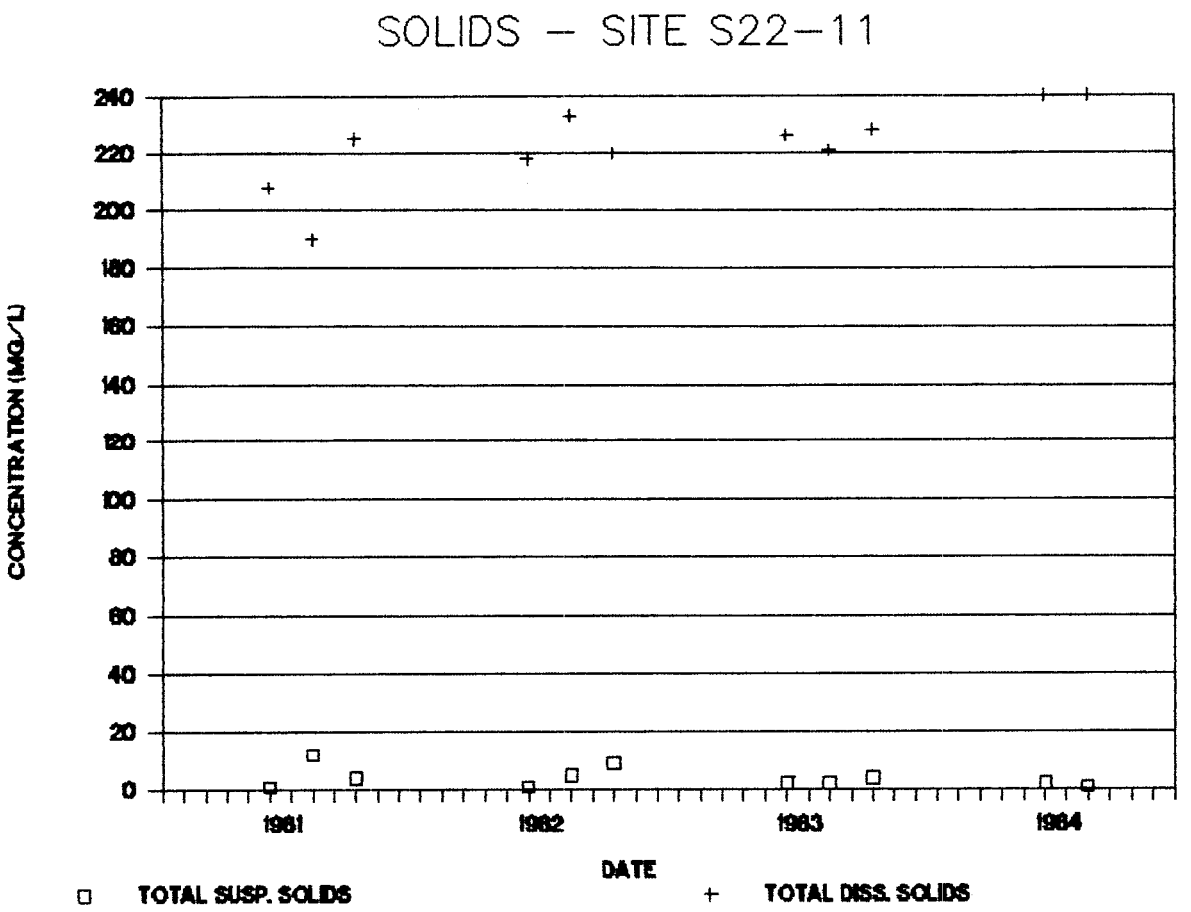


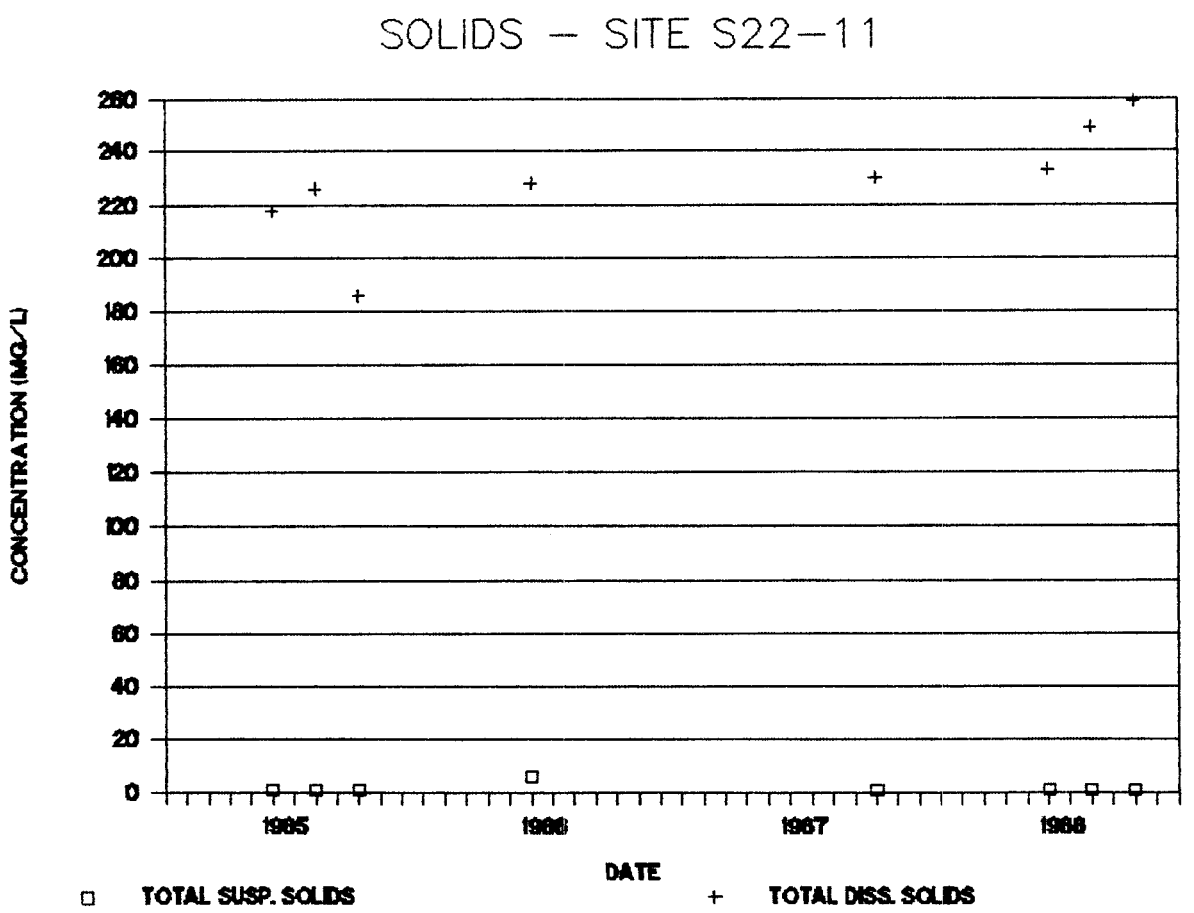

FLOW - SITE S22-11
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
1989
1990
1991
1992
DATE

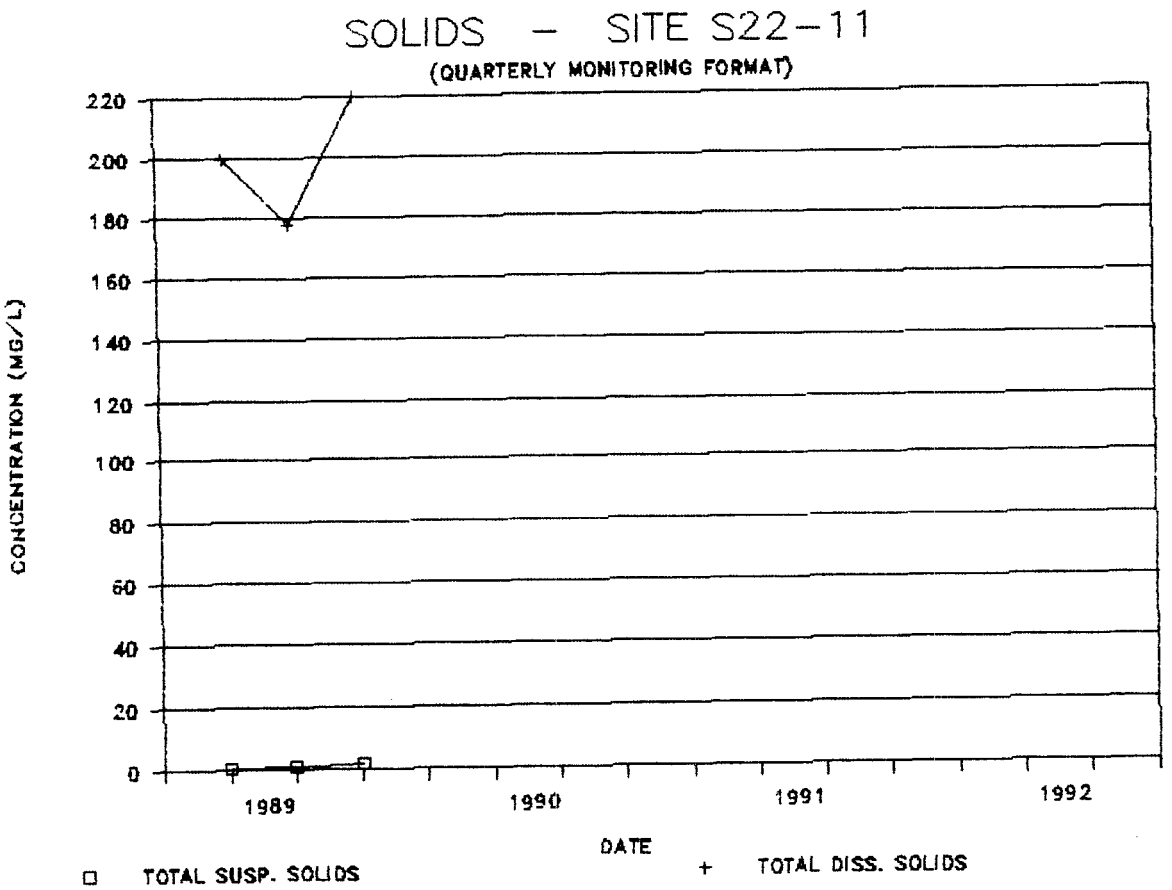

pH – SITE S22–11
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
pH (S.U.)
1985
1986
1987
1988
DATE

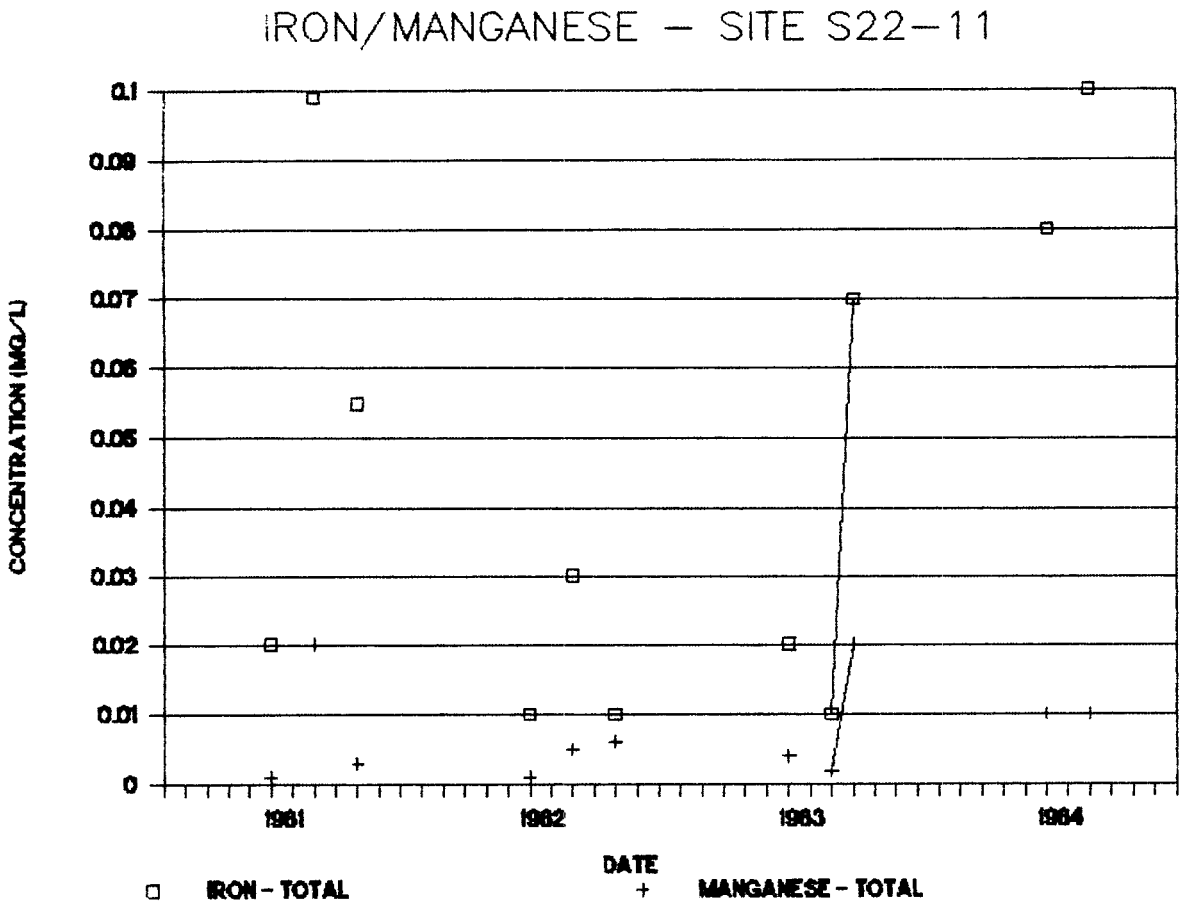

pH – SITE S22–11
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
pH (S.U.)
1985
1986
1987
1988
DATE

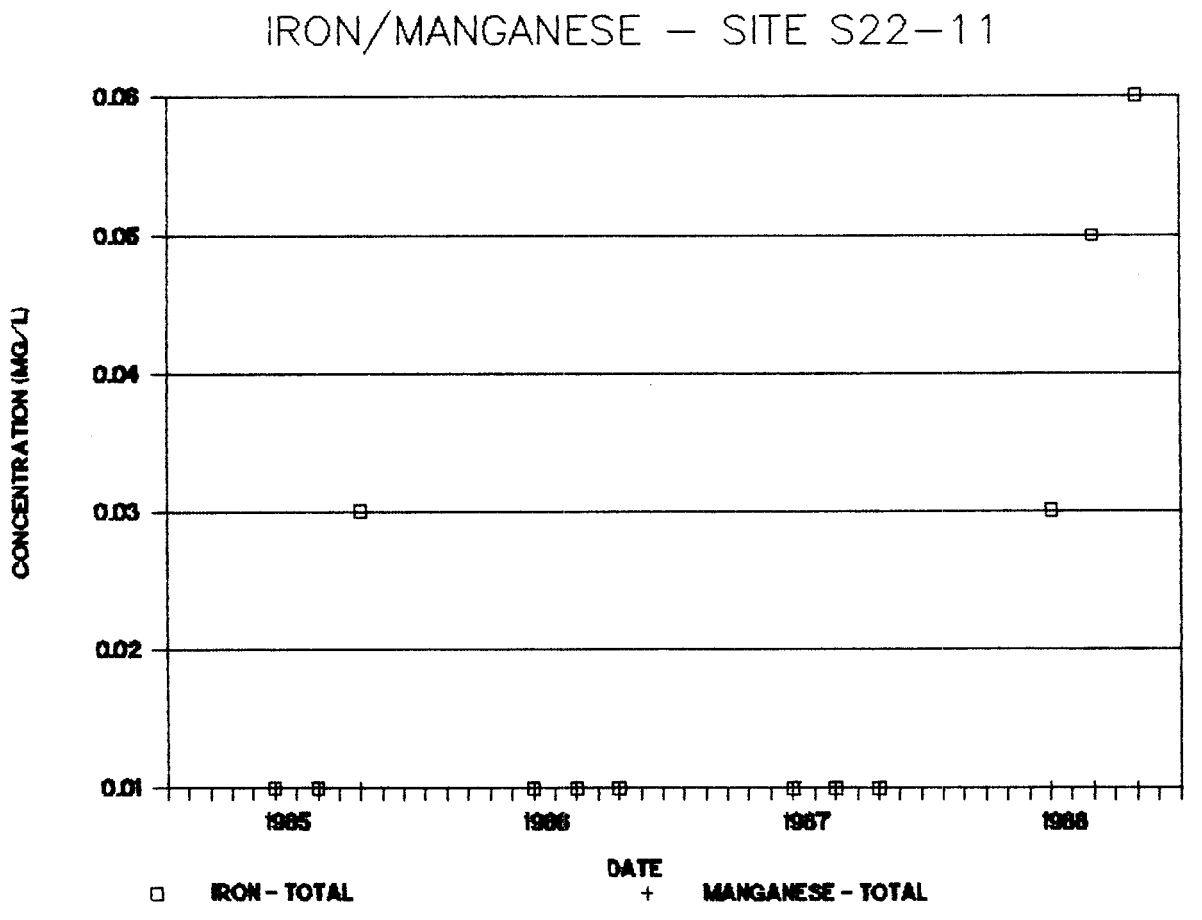

pH - SITE S22-11
(QUARTERLY MONITORING FORMAT)
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
pH (SU)
1989
1990
1991
1992
DATE

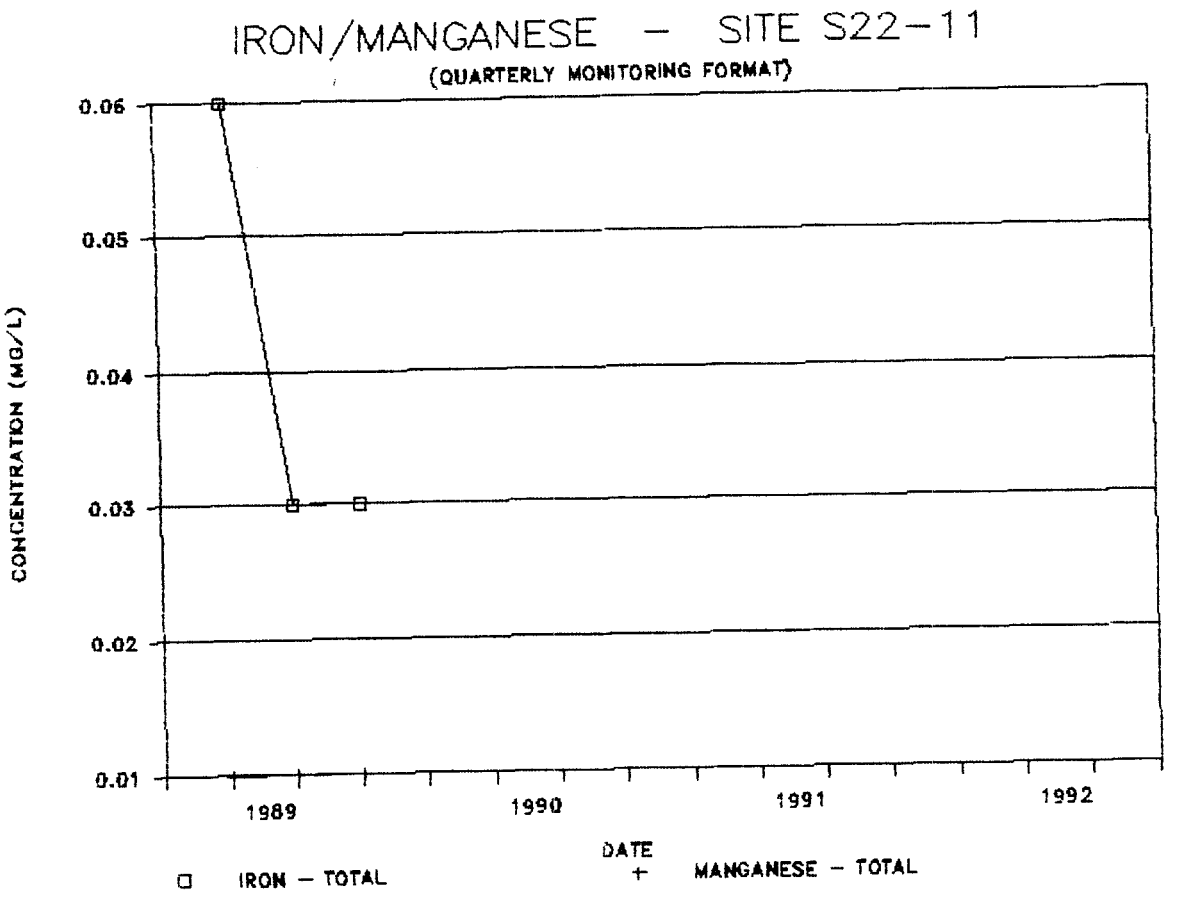

SOLIDS – SITE S22–11
CONCENTRATION (MG/L)
240
220
200
180
160
140
120
100
80
60
40
20
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


SOLIDS – SITE S22–11
CONCENTRATION (MG/L)
260
240
220
200
180
160
140
120
100
80
60
40
20
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

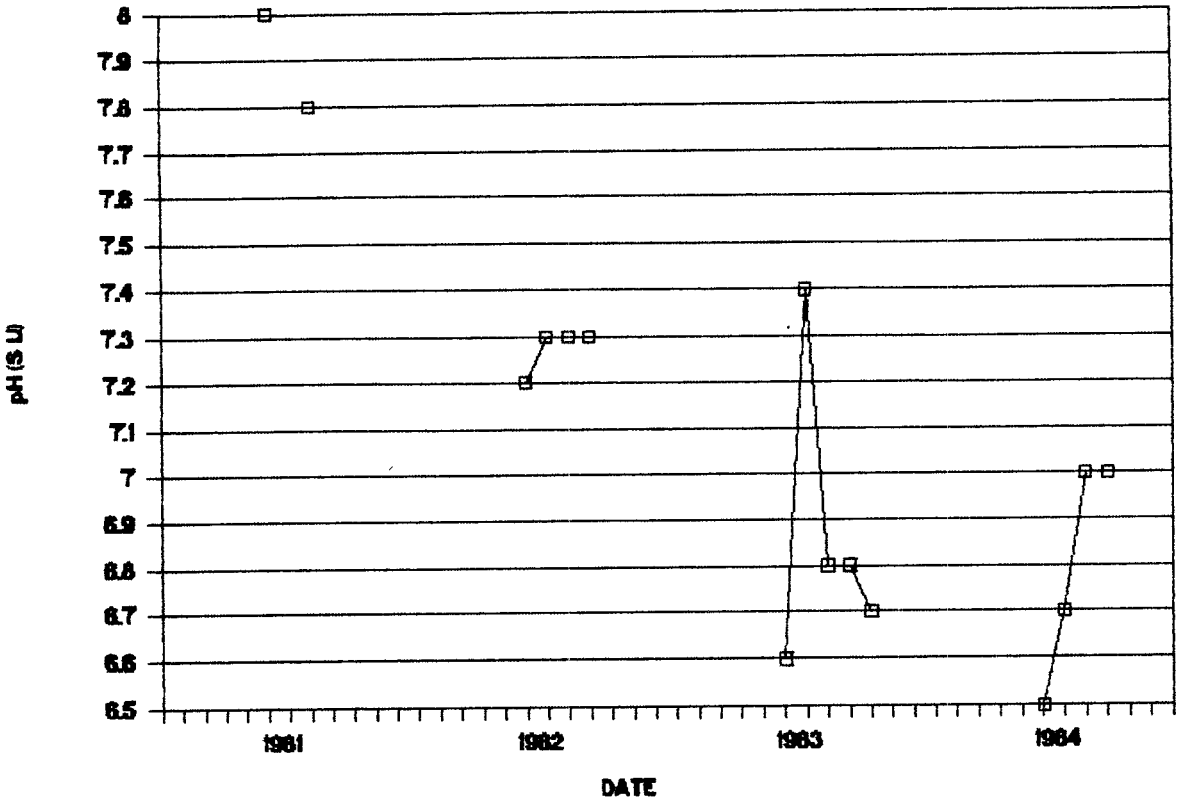

SOLIDS - SITE S22-11
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


IRON/MANGANESE – SITE S22–11
CONCENTRATION (MG/L)
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1981
1982
1983
1984
DATE
IRON - TOTAL
MANGANESE - TOTAL

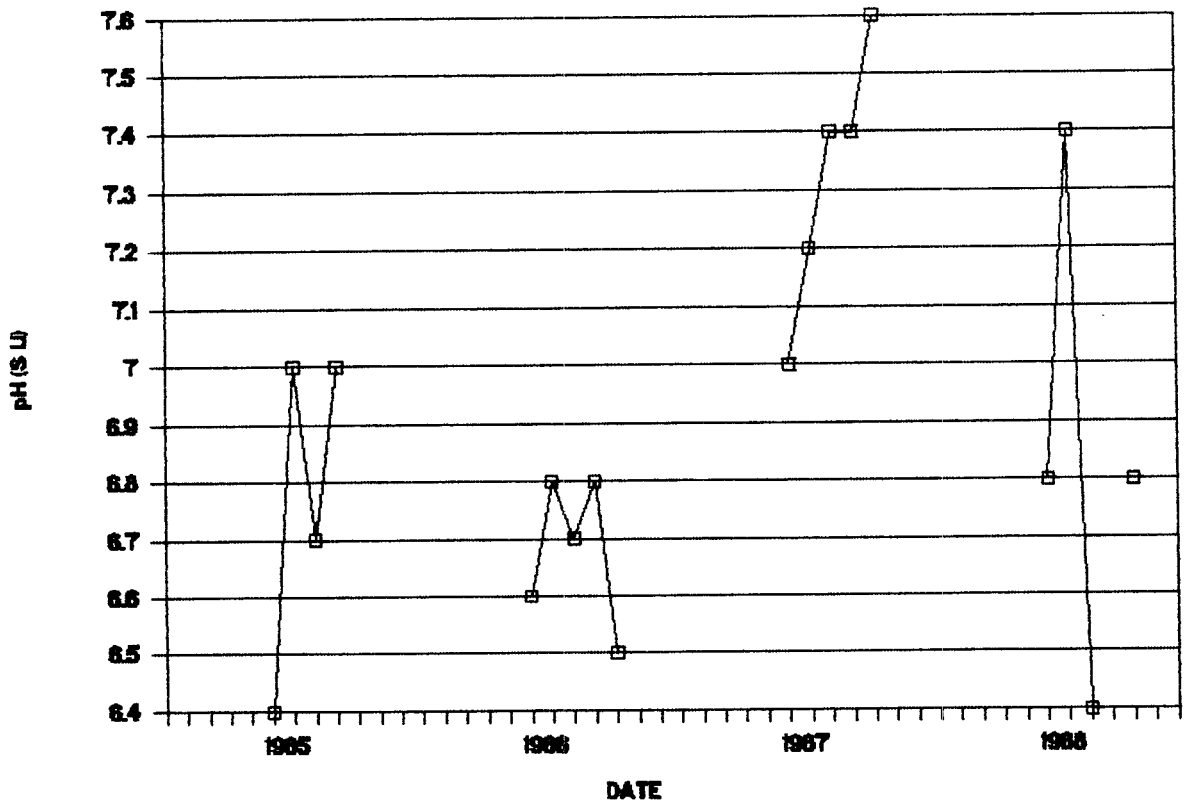

IRON/MANGANESE – SITE S22–11
CONCENTRATION (MG/L)
0.06
0.05
0.04
0.03
0.02
0.01
1985
1986
1987
1988
DATE
IRON - TOTAL
MANGANESE - TOTAL

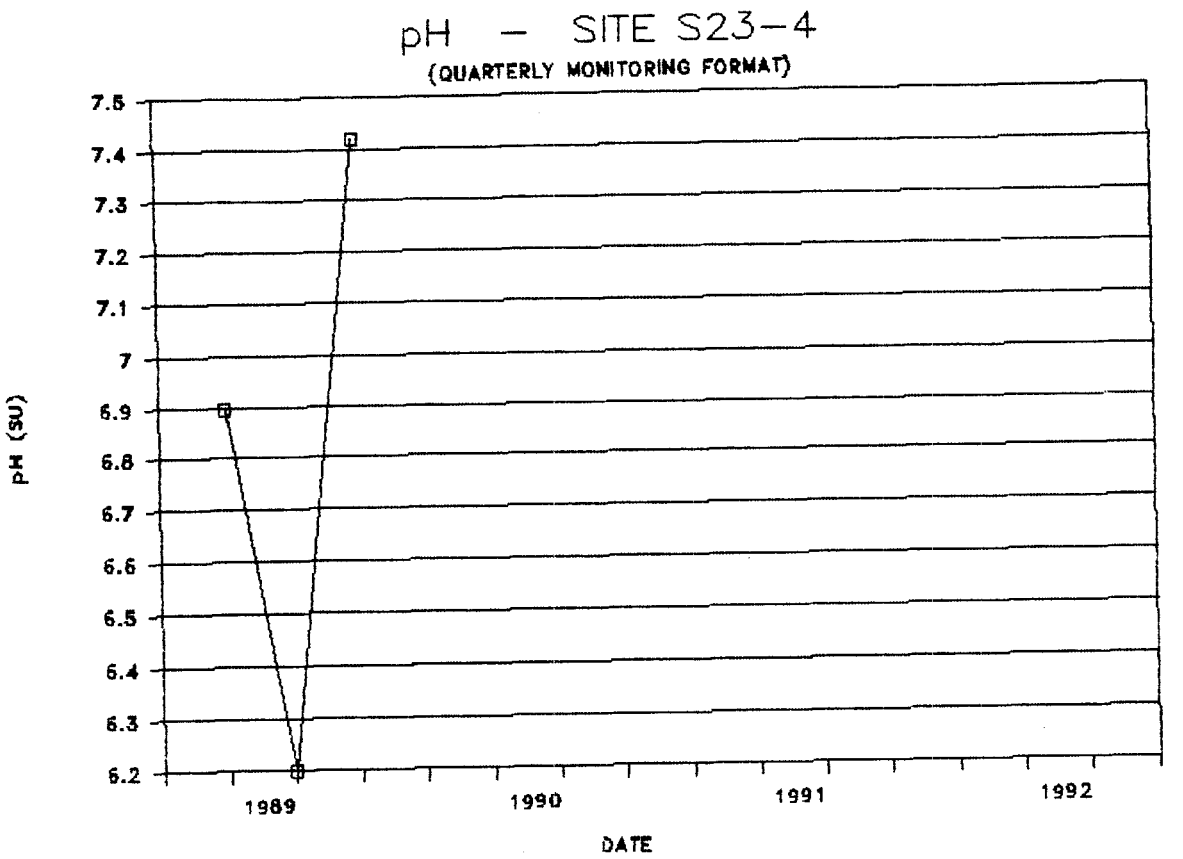

IRON/MANGANESE - SITE S22-11
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.06
0.05
0.04
0.03
0.02
0.01
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

pH – SITE S23–4

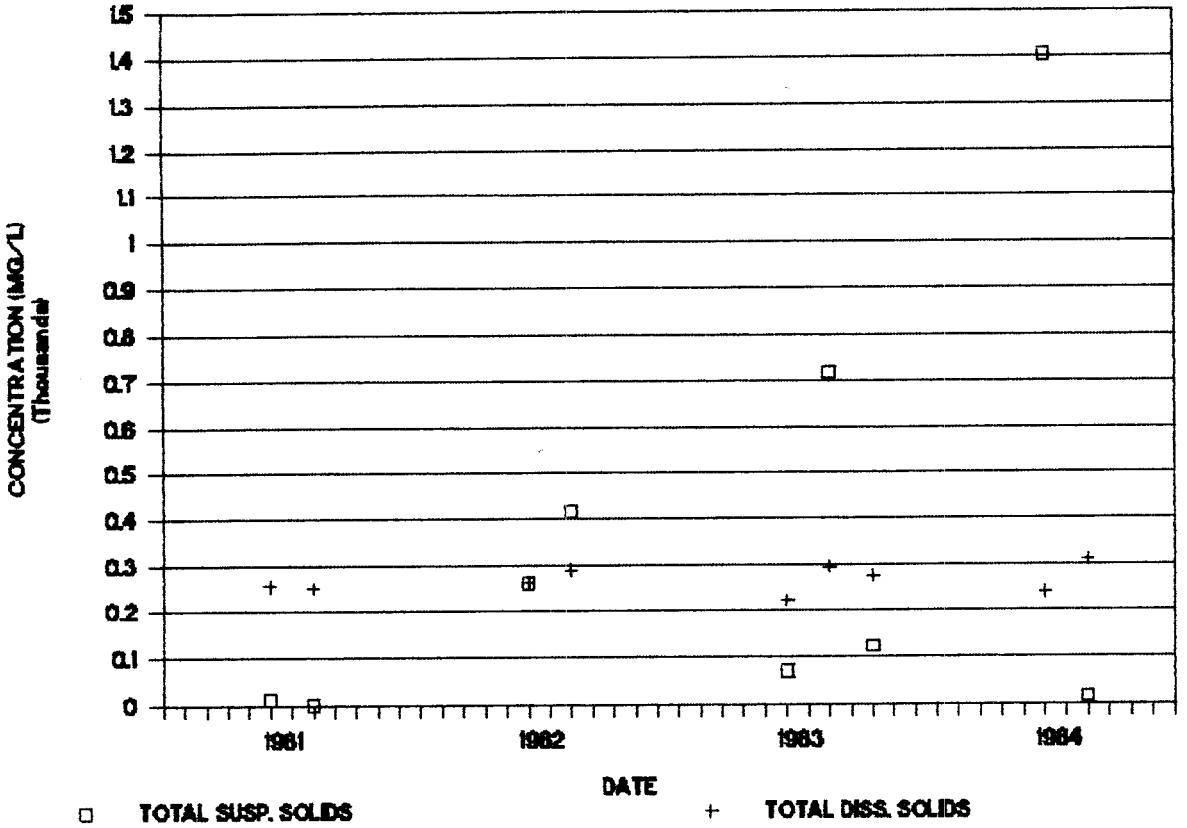


pH – SITE S23–4

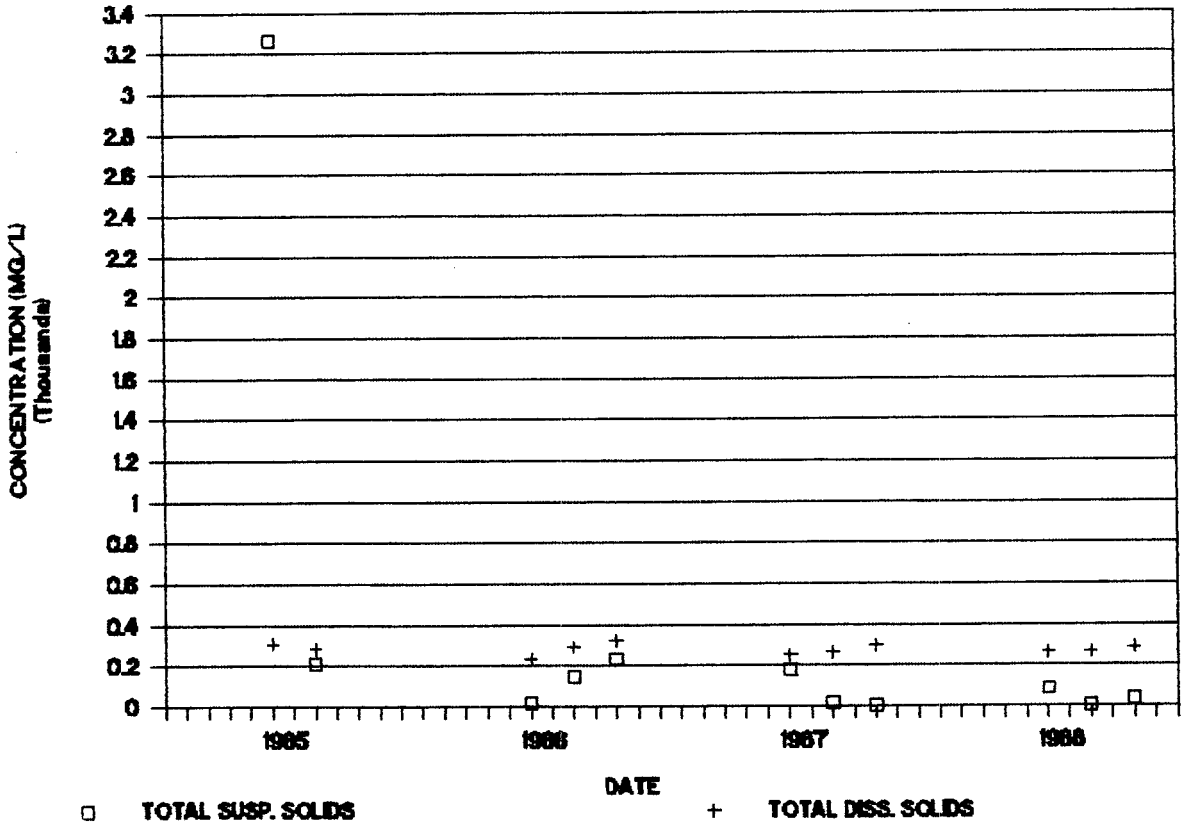


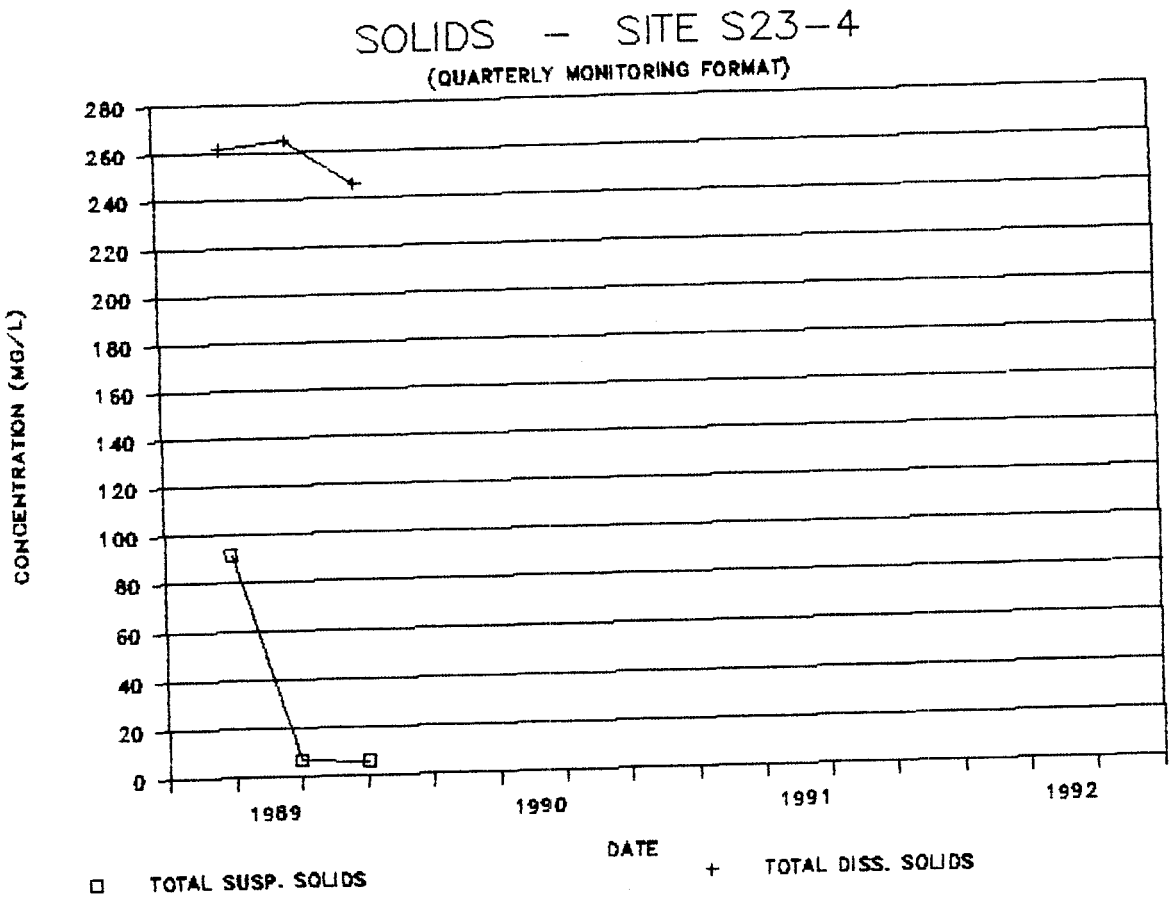

pH - SITE S23-4
(QUARTERLY MONITORING FORMAT)
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
6.3
6.2
pH (SU)
1989
1990
1991
1992
DATE

SOLIDS – SITE S23–4

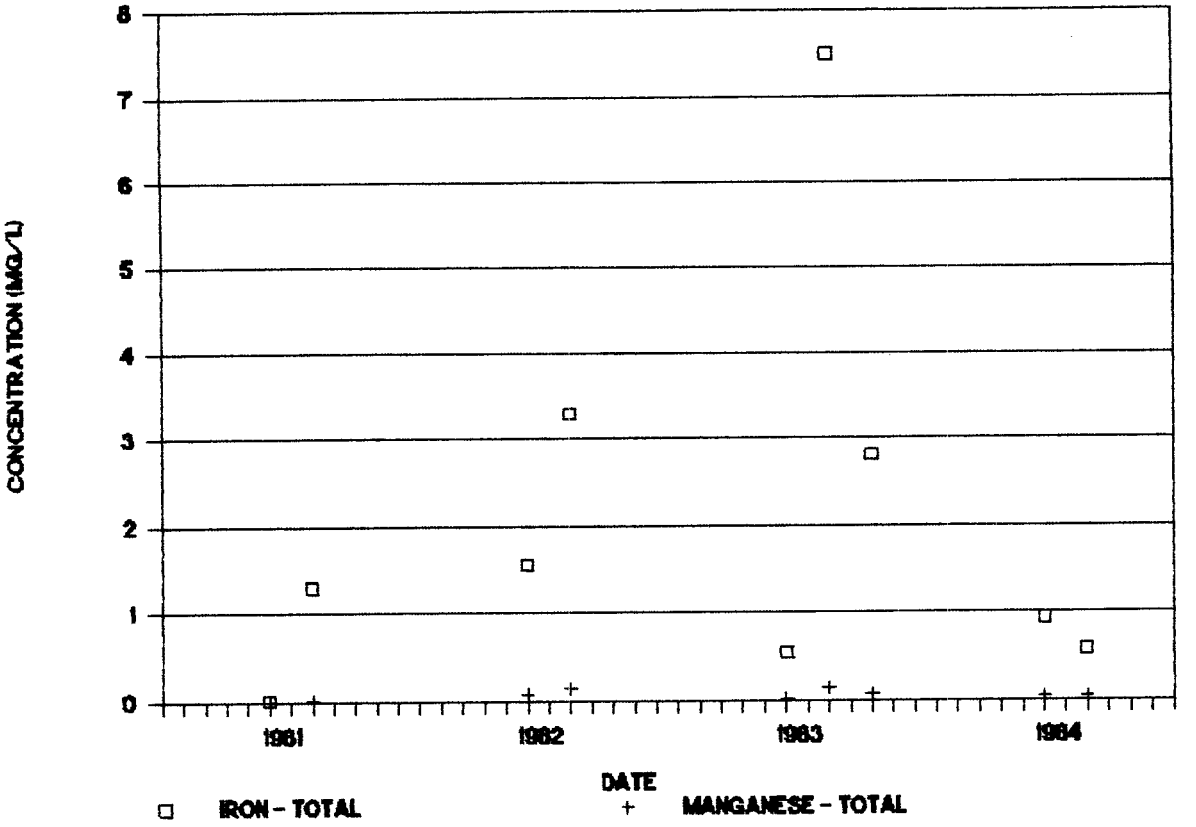


SOLIDS – SITE S23–4

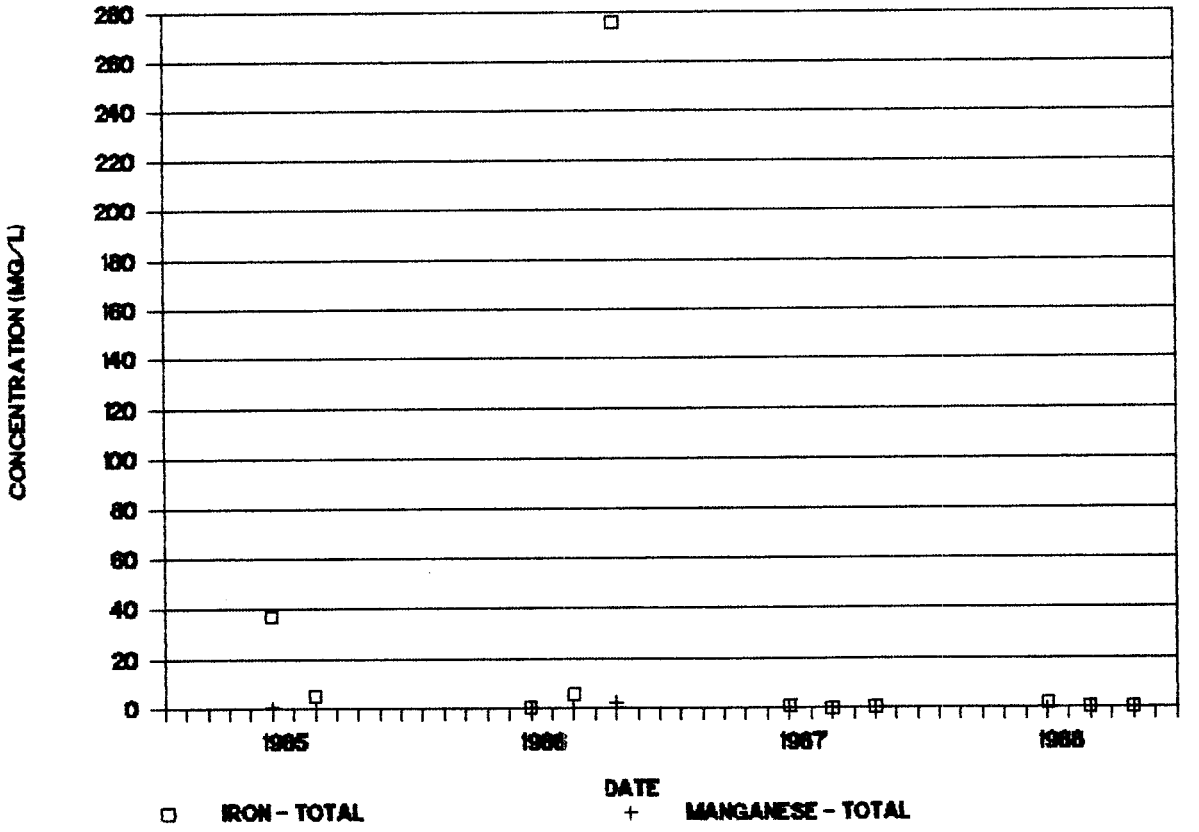


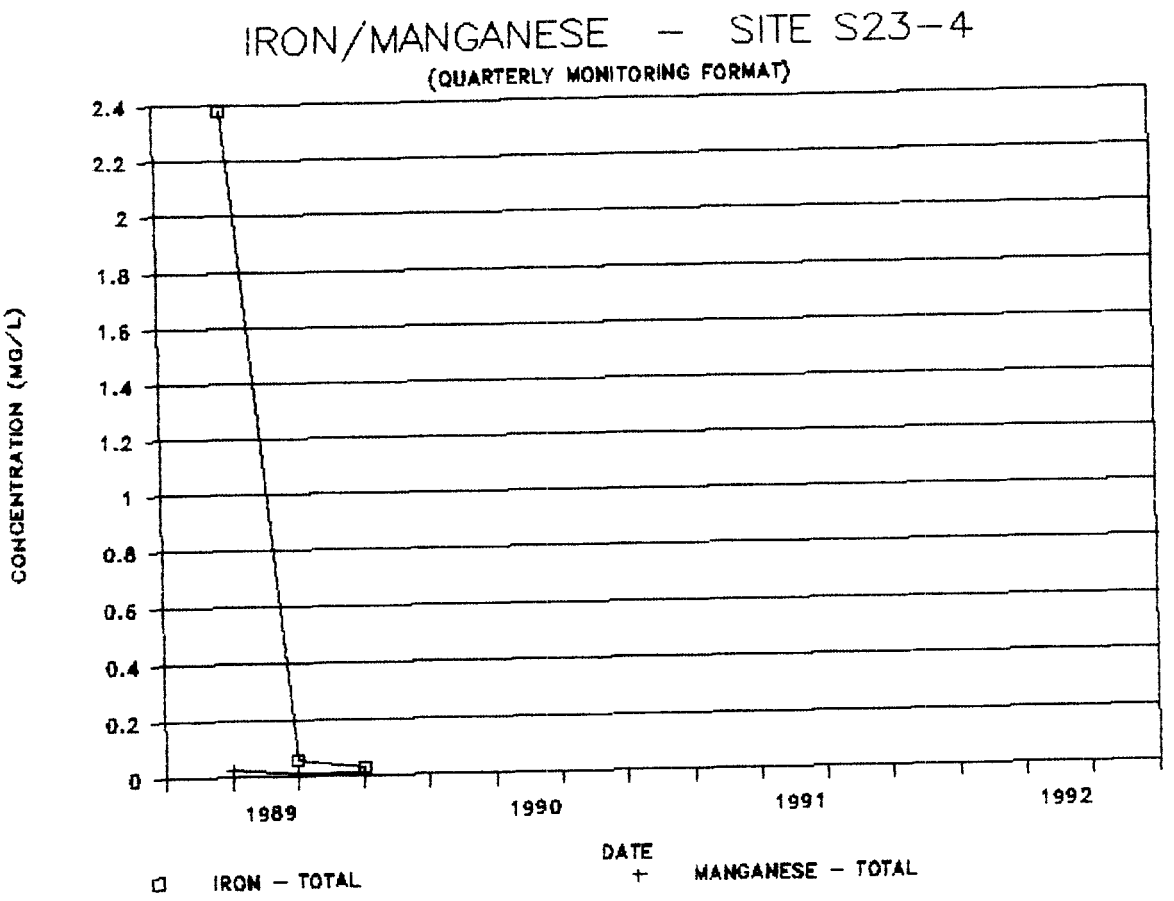

SOLIDS - SITE S23-4
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

IRON/MANGANESE – SITE S23–4

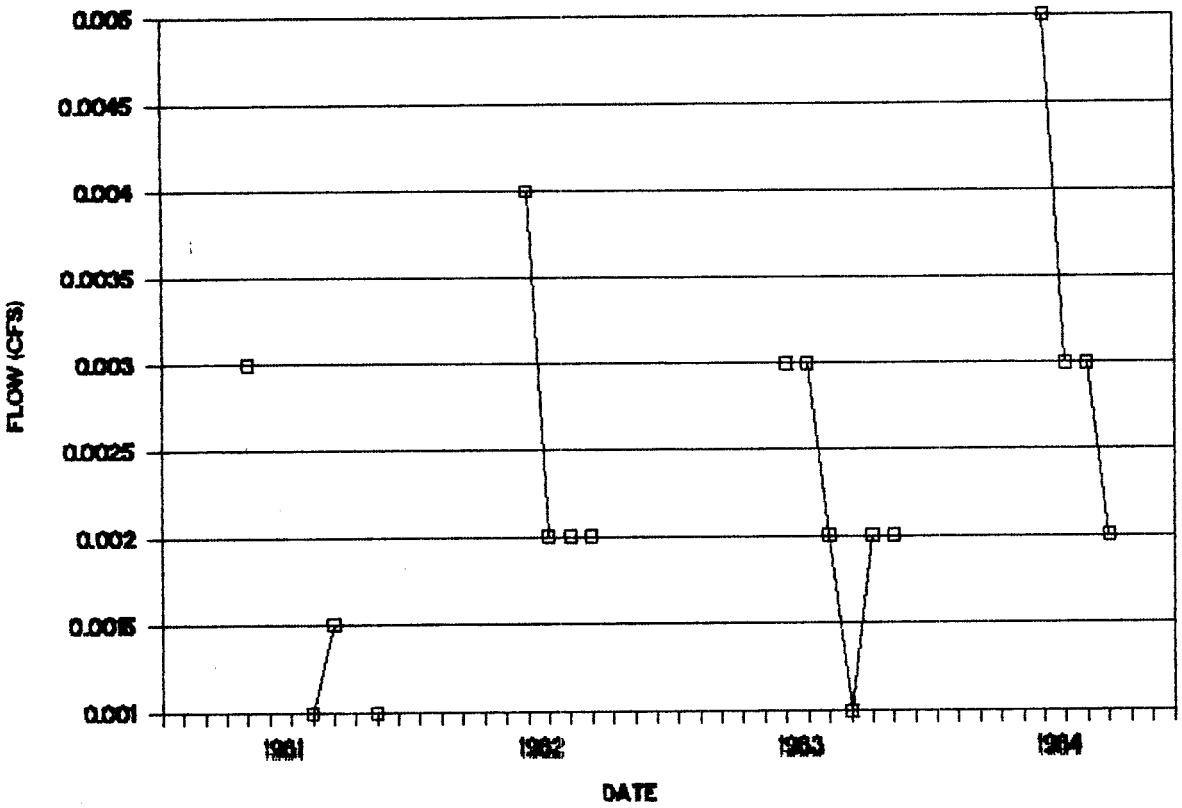


IRON/MANGANESE – SITE S23–4

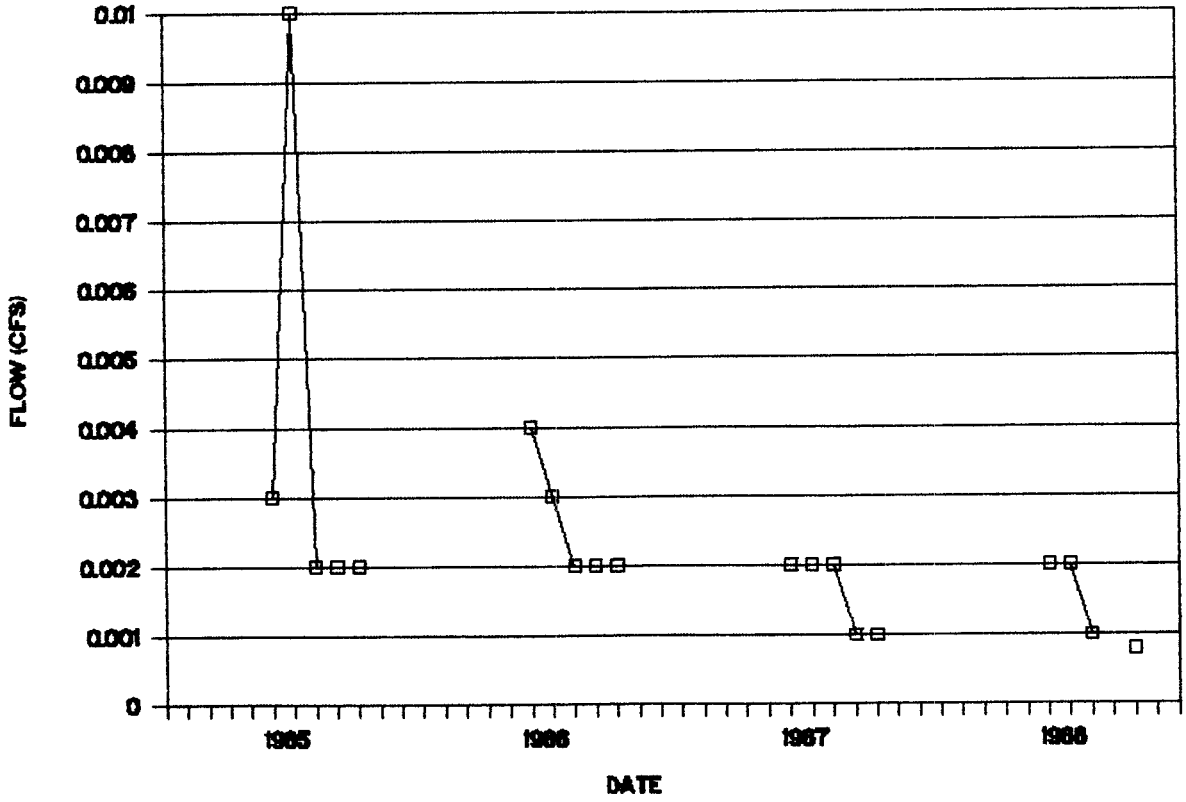



IRON/MANGANESE - SITE S23-4
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

FLOW – SITE S24–12

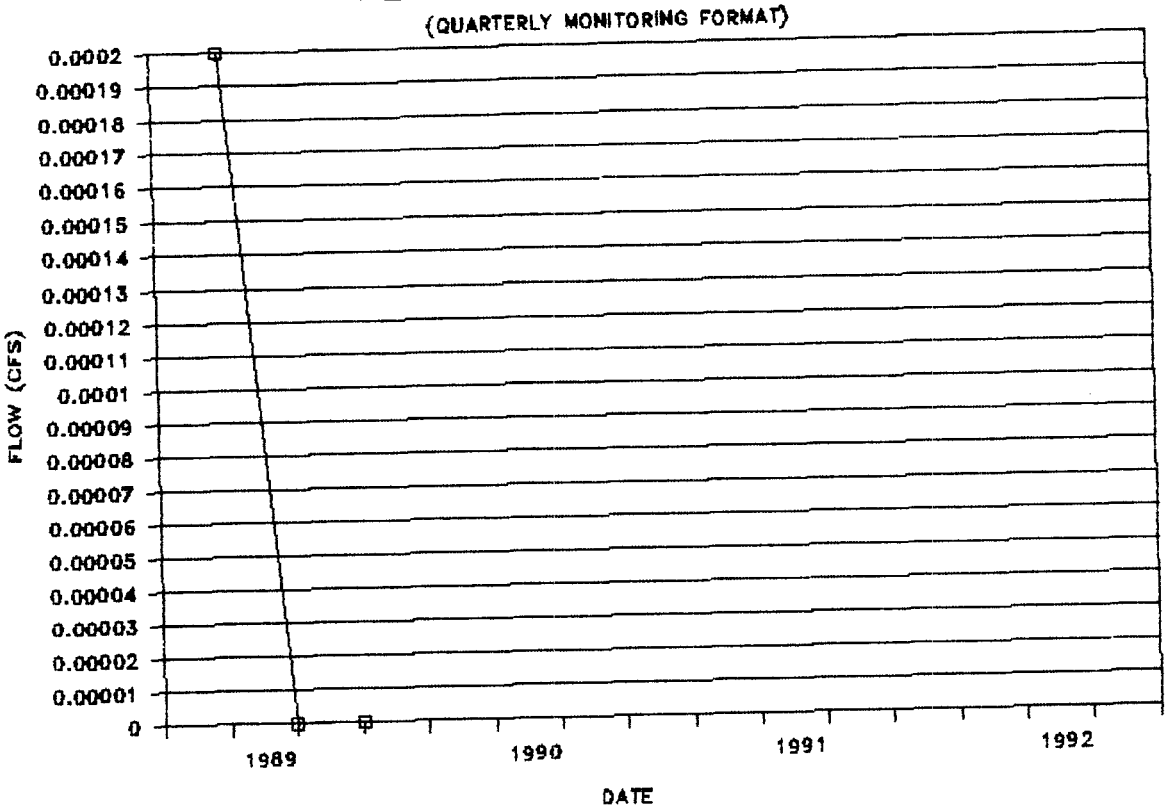


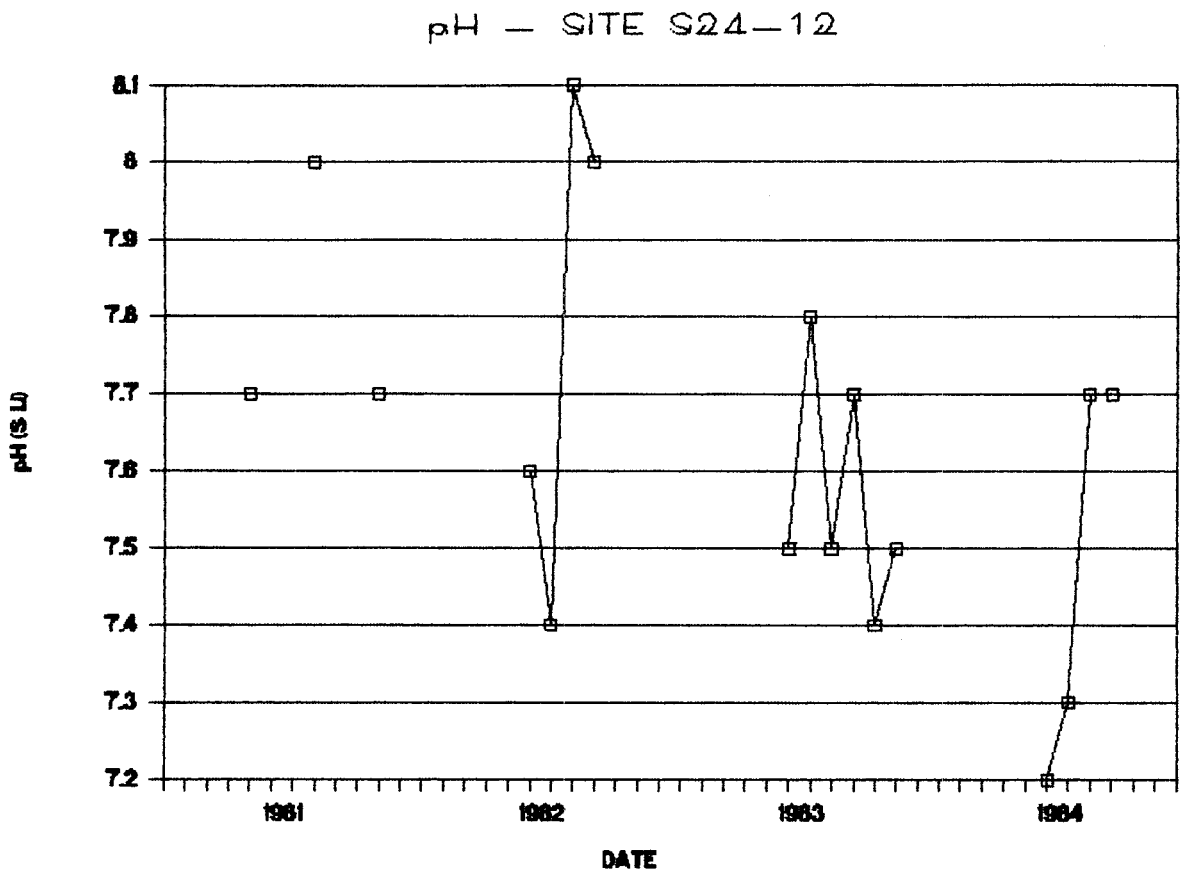
FLOW – SITE S24–12

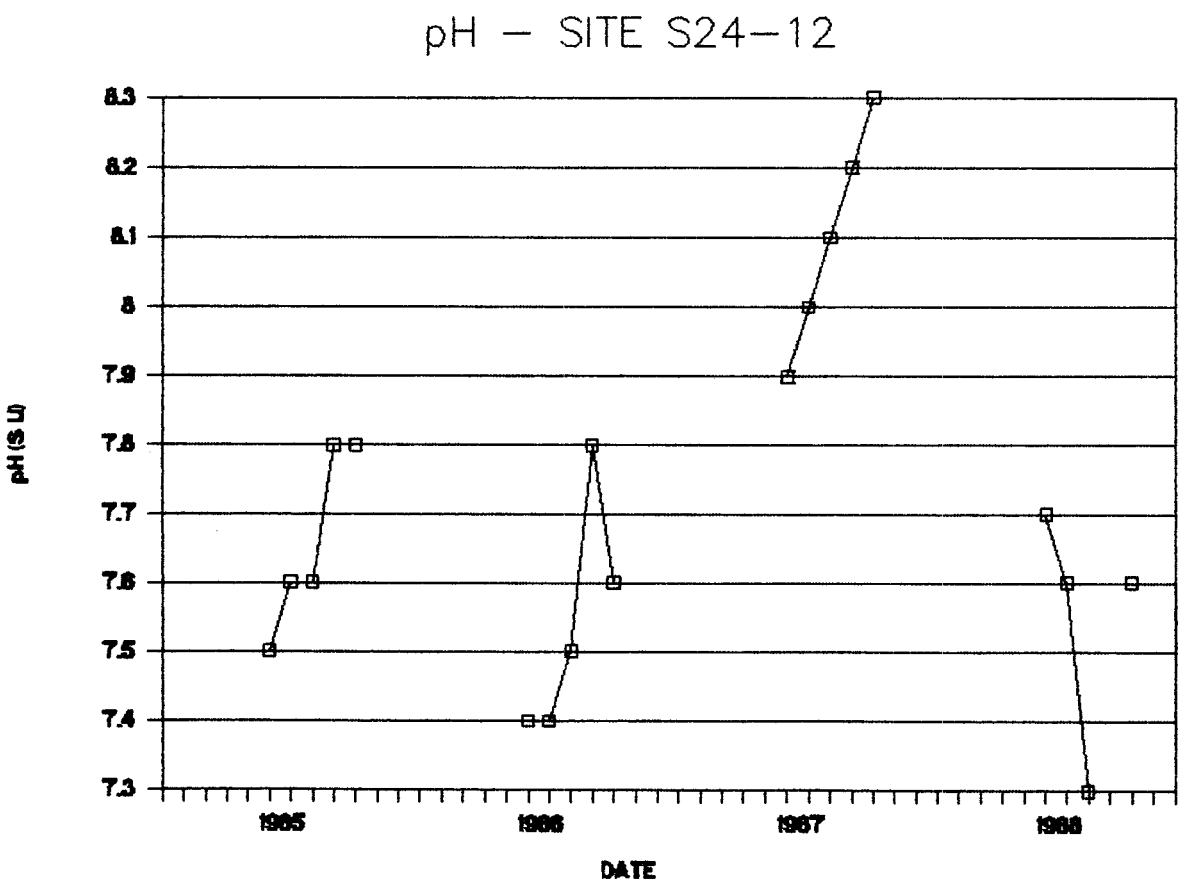


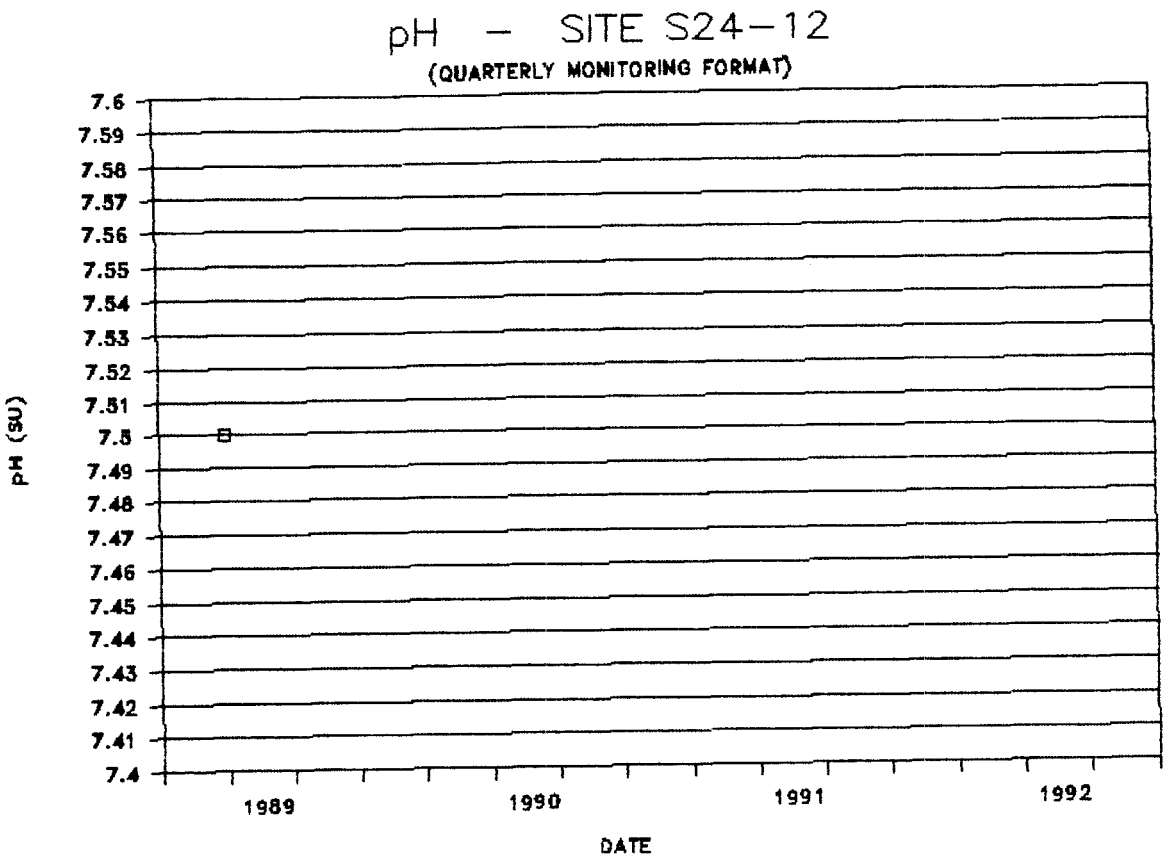
FLOW – SITE S24-12

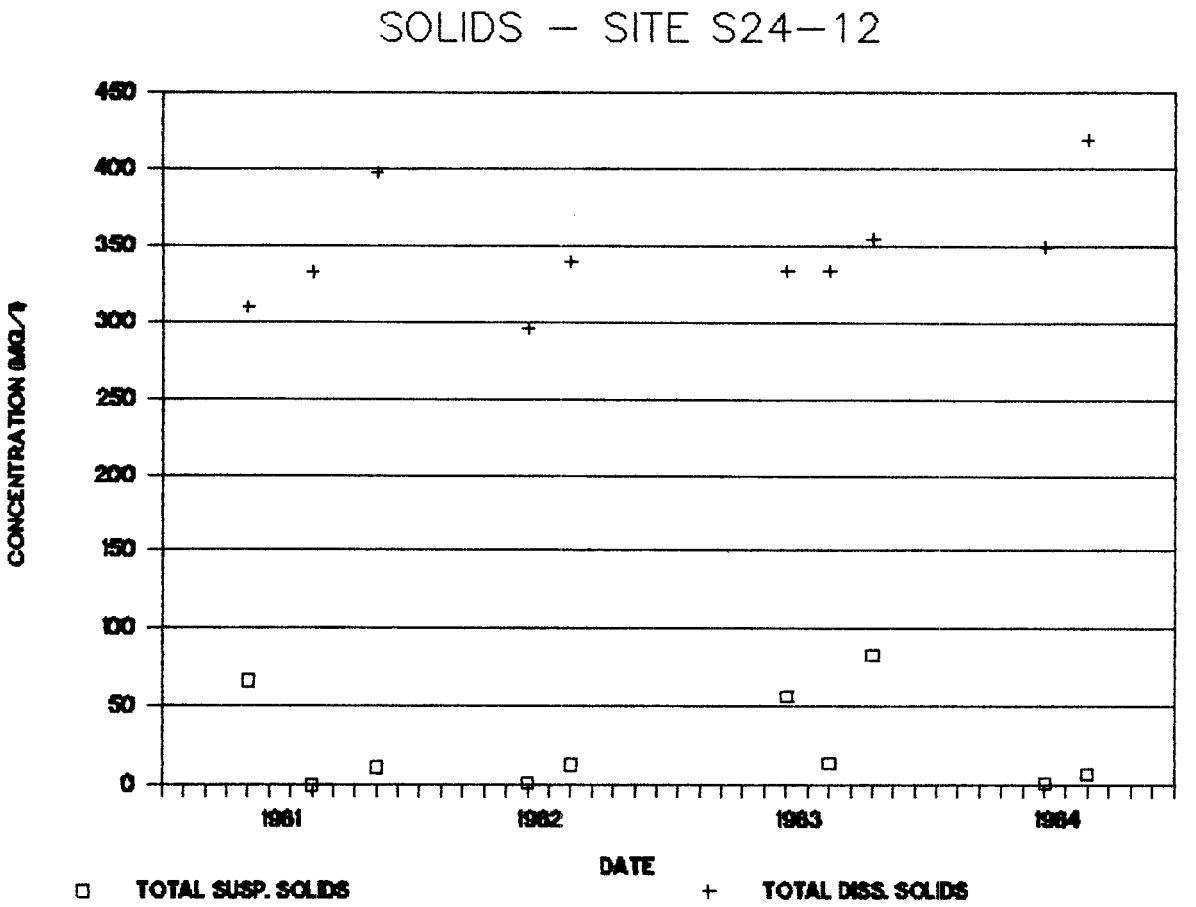
(QUARTERLY MONITORING FORMAT)

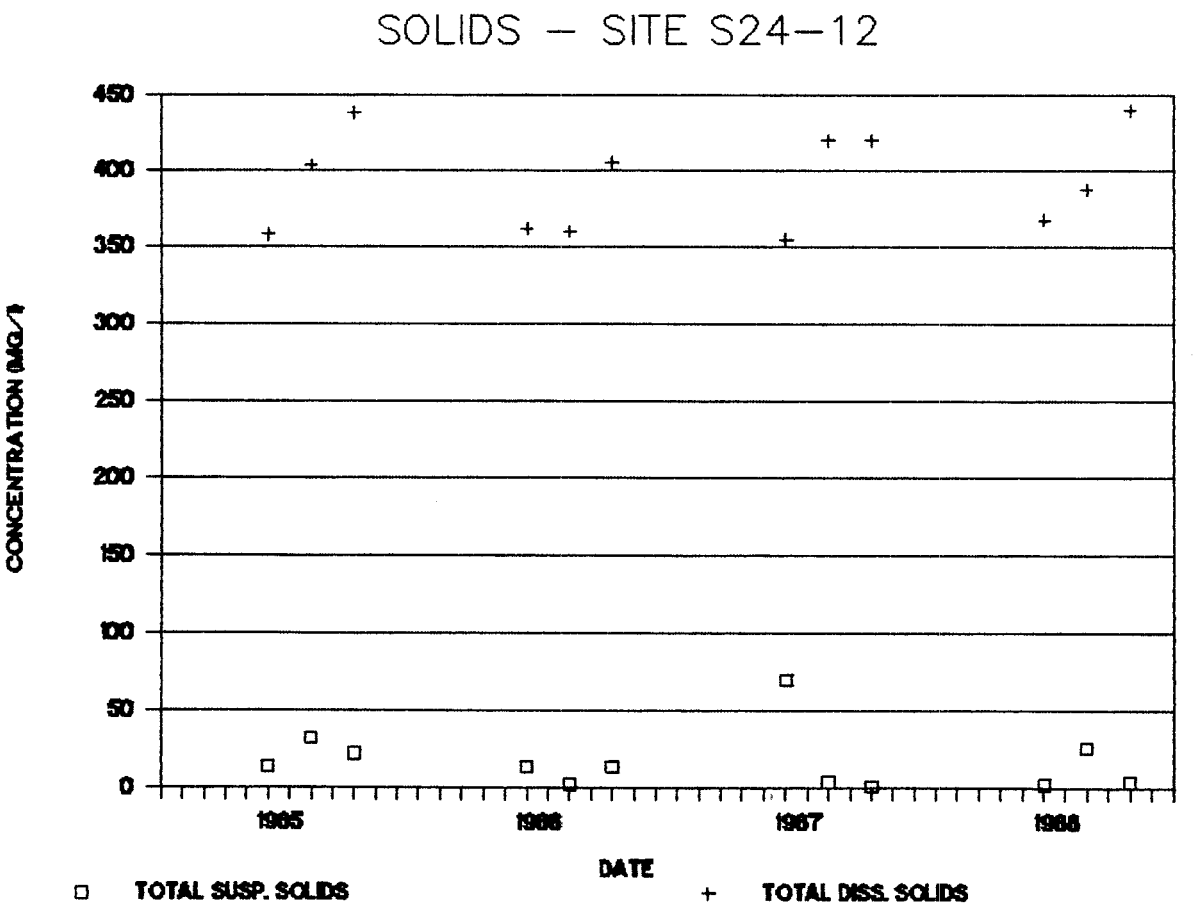



pH — SITE S24—12
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
pH (S.U.)
1981
1982
1983
1984
DATE


pH — SITE S24—12
8.3
8.2
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
pH (S.U.)
1985
1986
1987
1988
DATE

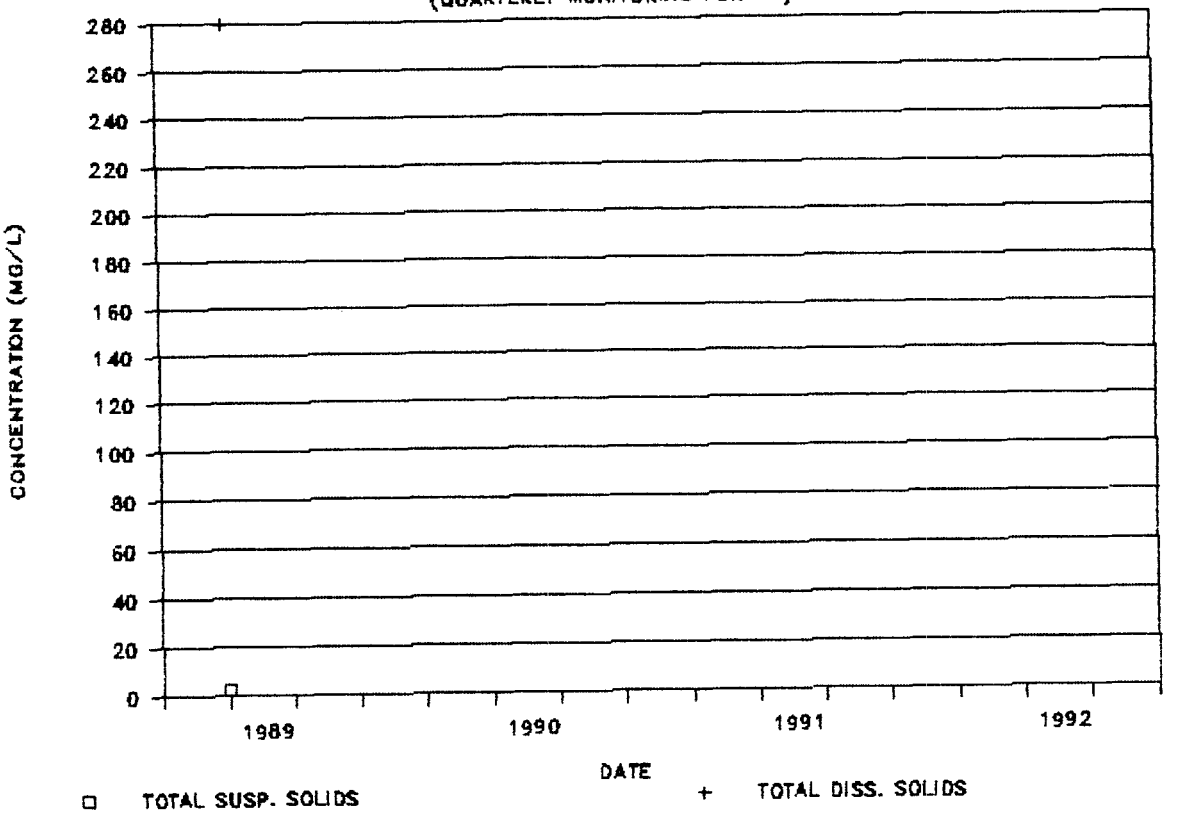

pH - SITE S24-12
(QUARTERLY MONITORING FORMAT)
pH (SU)
7.6
7.59
7.58
7.57
7.56
7.55
7.54
7.53
7.52
7.51
7.5
7.49
7.48
7.47
7.46
7.45
7.44
7.43
7.42
7.41
7.4
1989
1990
1991
1992
DATE

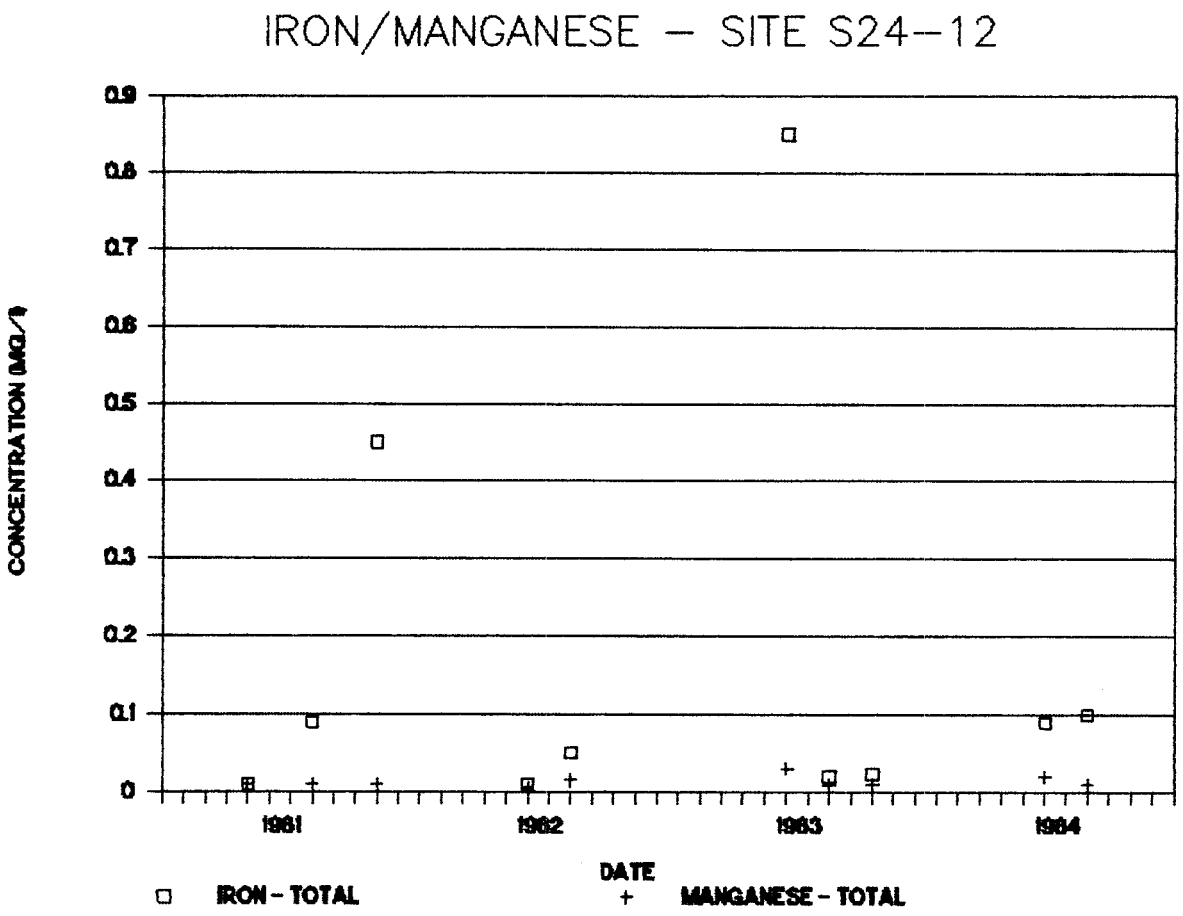

SOLIDS – SITE S24–12
CONCENTRATION (MG/L)
450
400
350
300
250
200
150
100
50
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

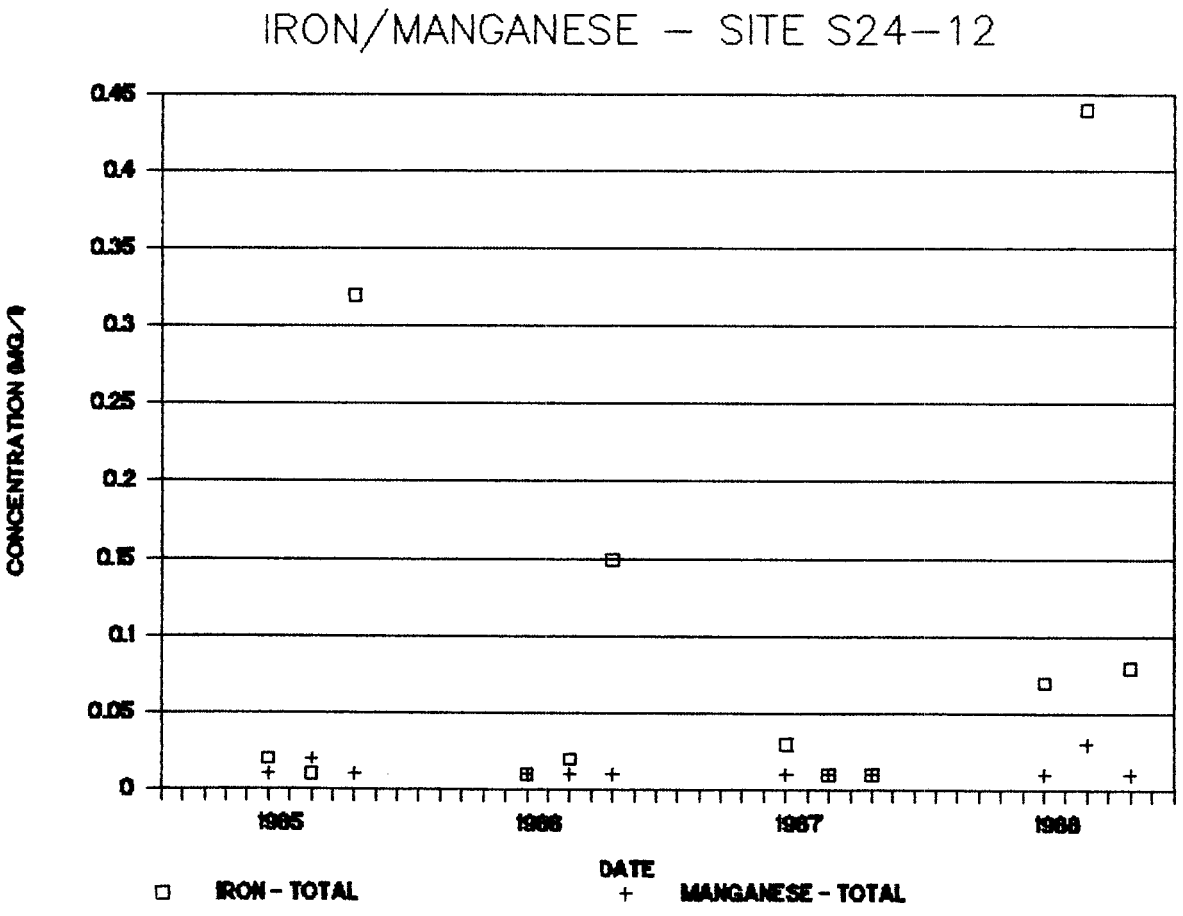

SOLIDS – SITE S24–12
CONCENTRATION (MG/L)
450
400
350
300
250
200
150
100
50
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

SOLIDS – SITE S24-12

(QUARTERLY MONITORING FORMAT)

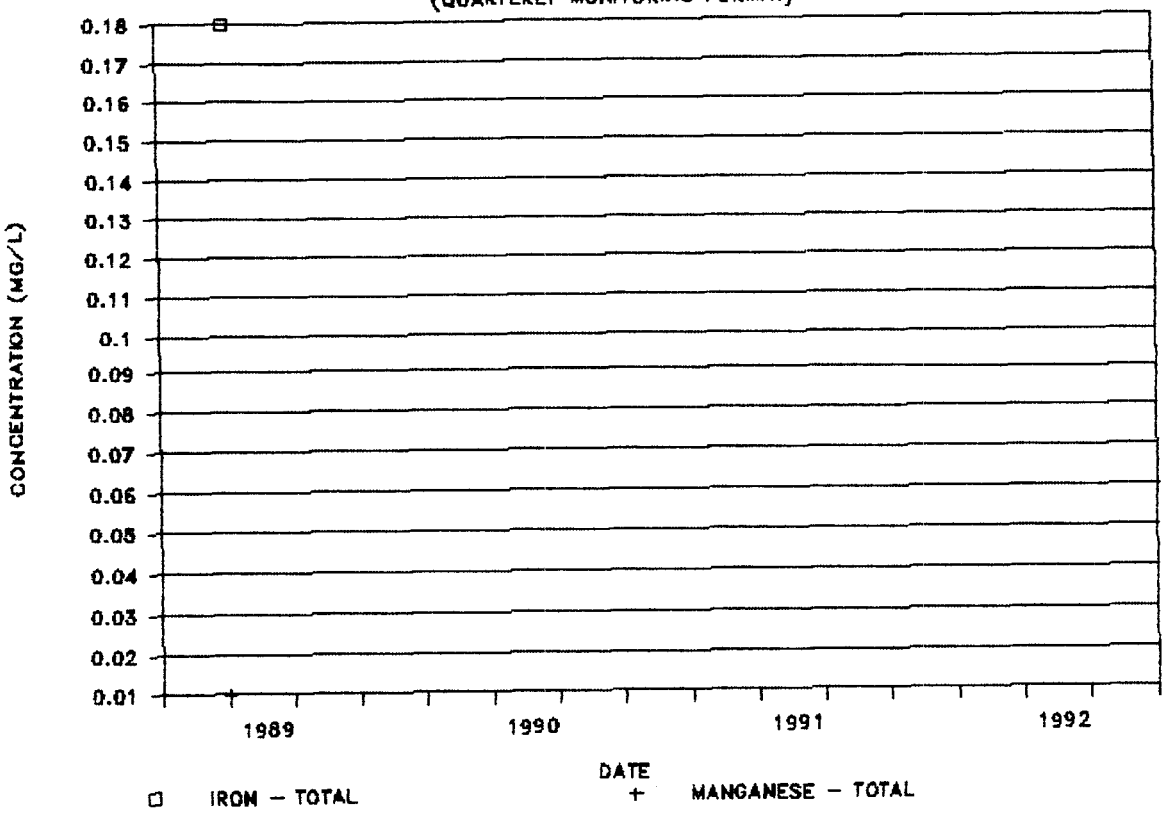



IRON/MANGANESE – SITE S24–12
CONCENTRATION (MG/l)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1981
1982
1983
1984
DATE
IRON - TOTAL
MANGANESE - TOTAL

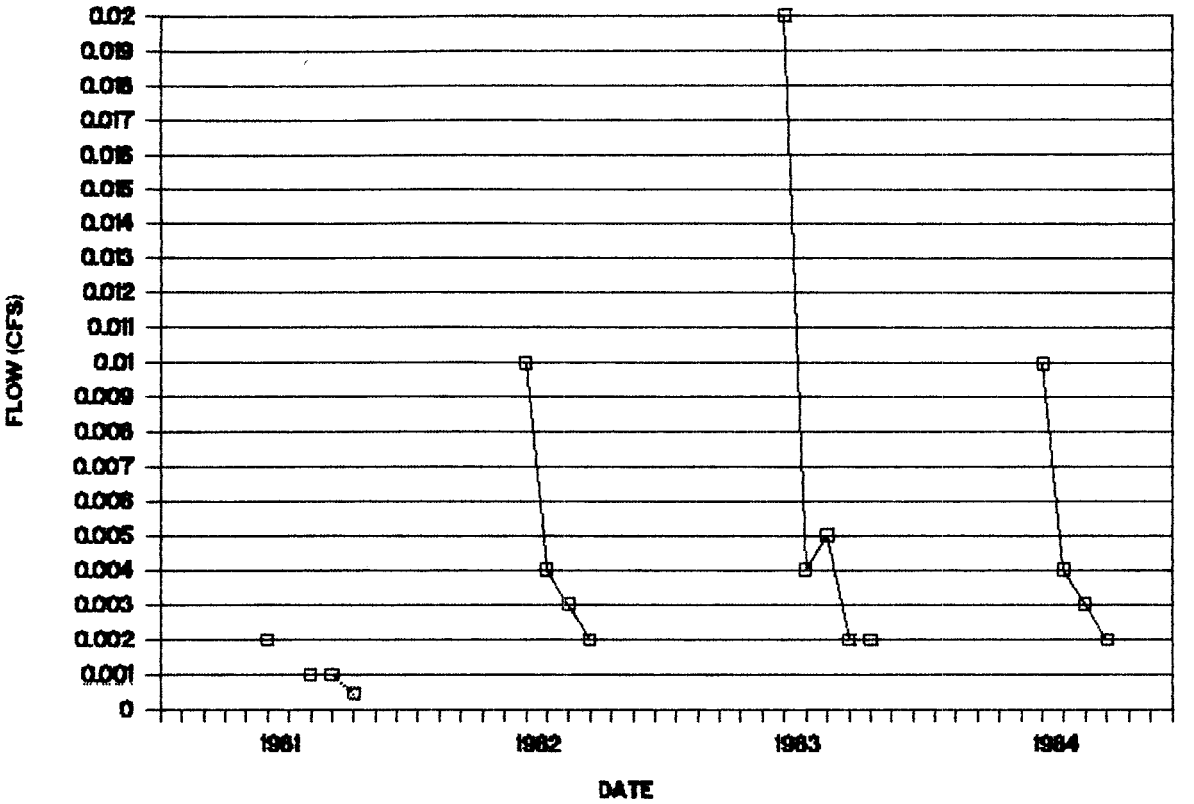

IRON/MANGANESE – SITE S24–12
CONCENTRATION (MG/l)
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1985
1986
1987
1988
DATE
IRON - TOTAL
MANGANESE - TOTAL

IRON/MANGANESE – SITE S24-12

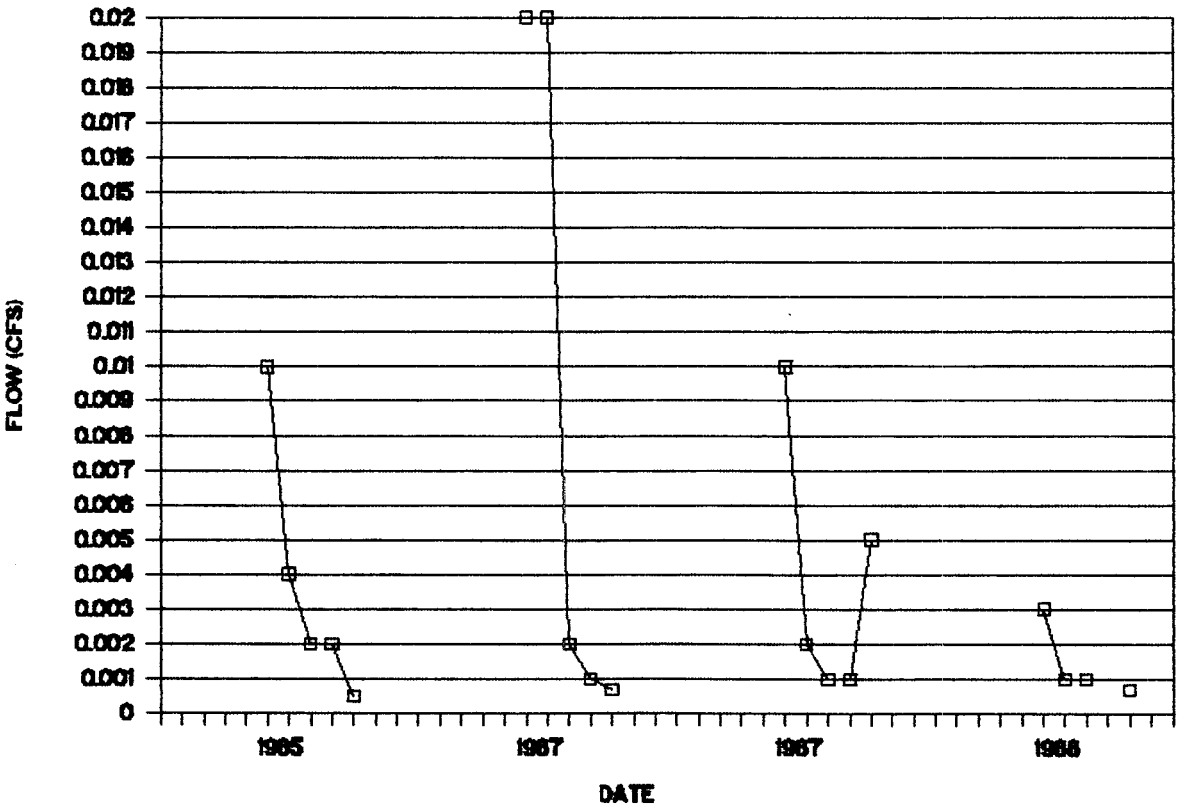
(QUARTERLY MONITORING FORMAT)

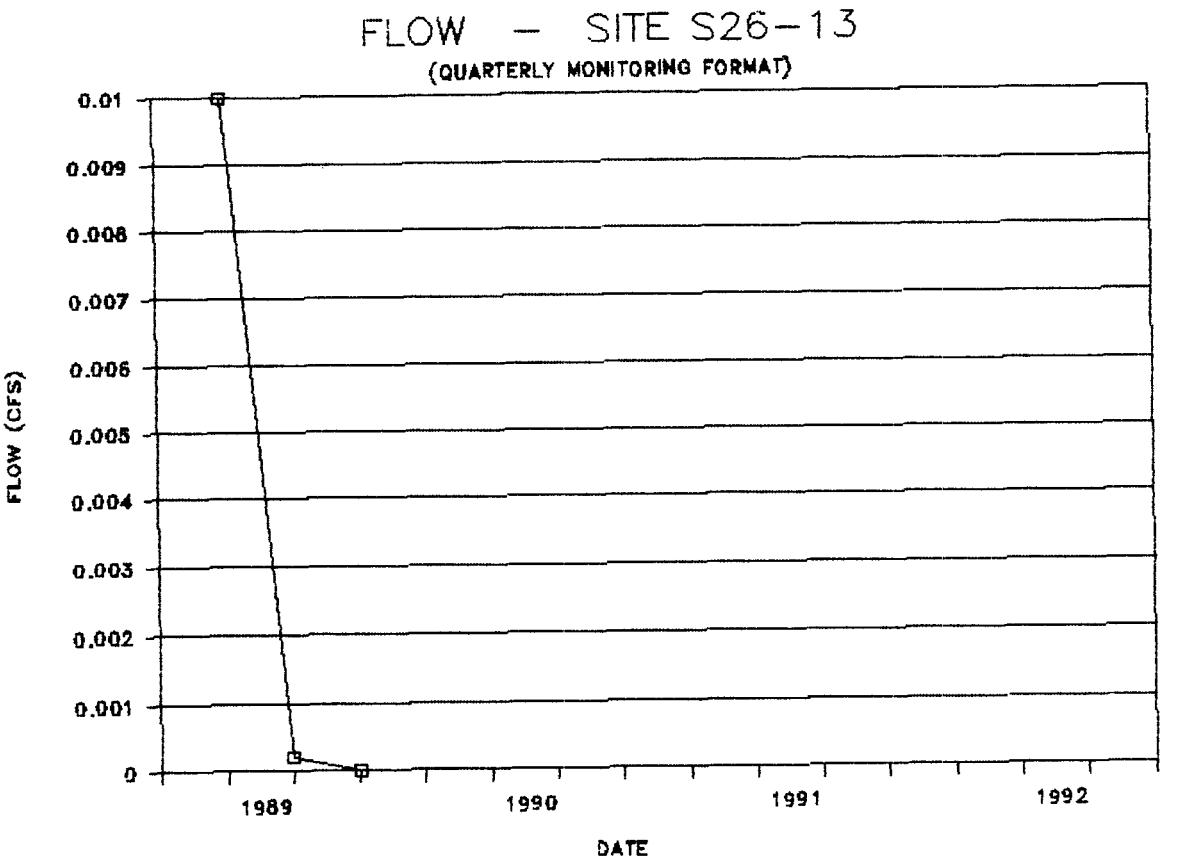


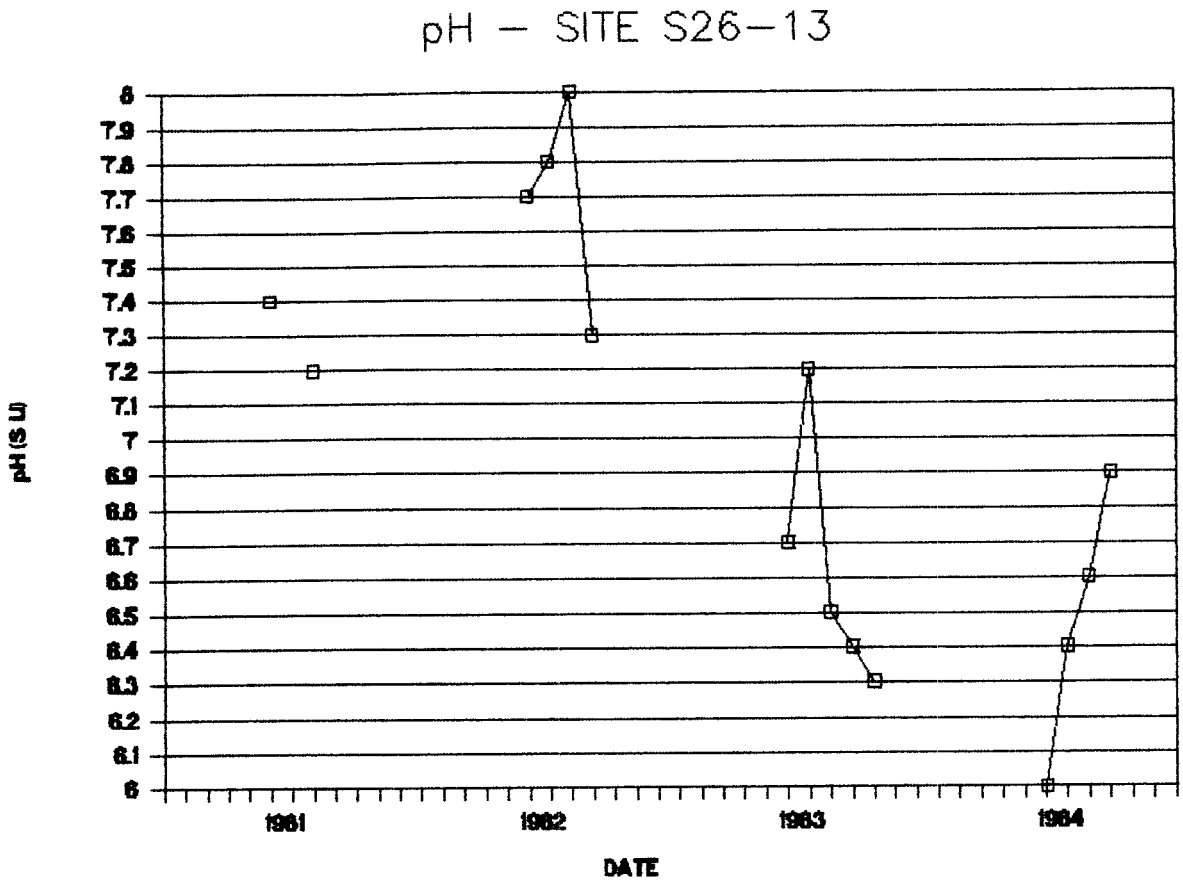
FLOW – SITE S26–13

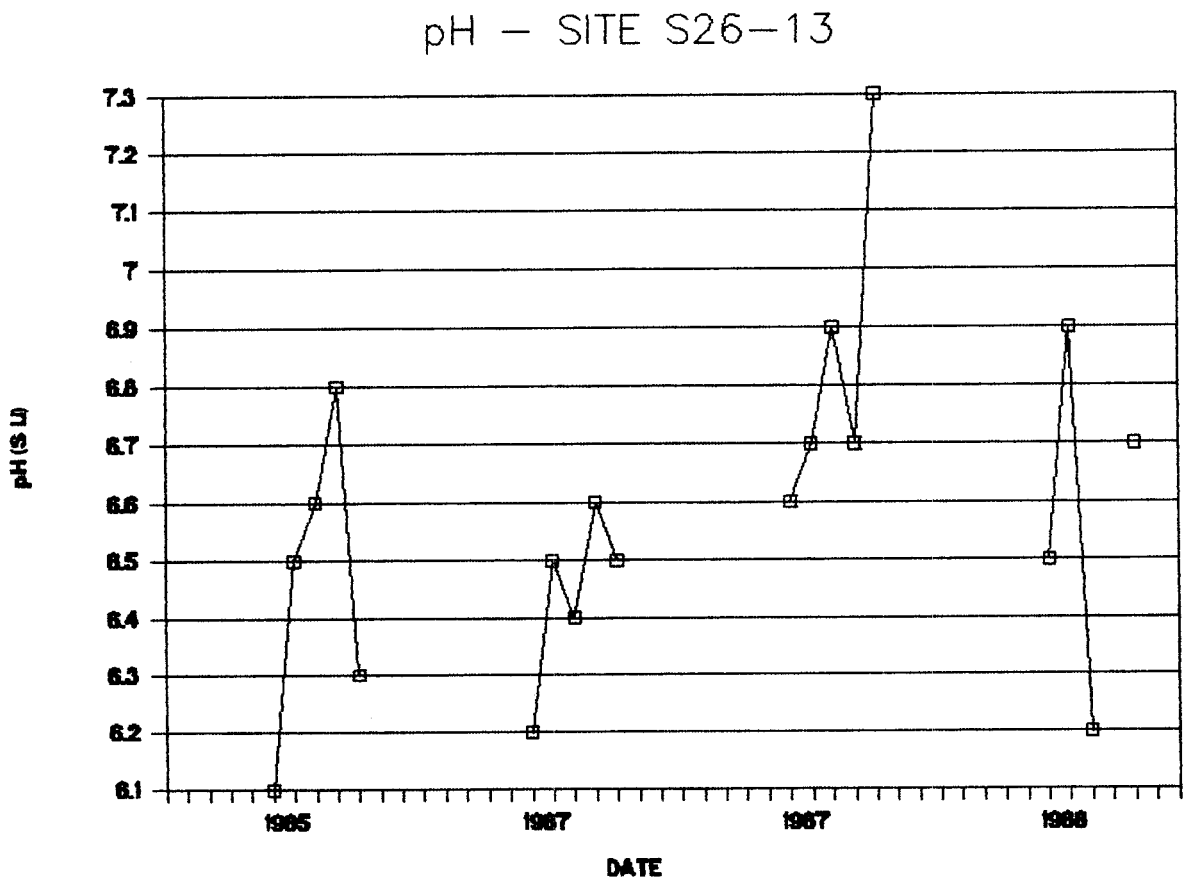


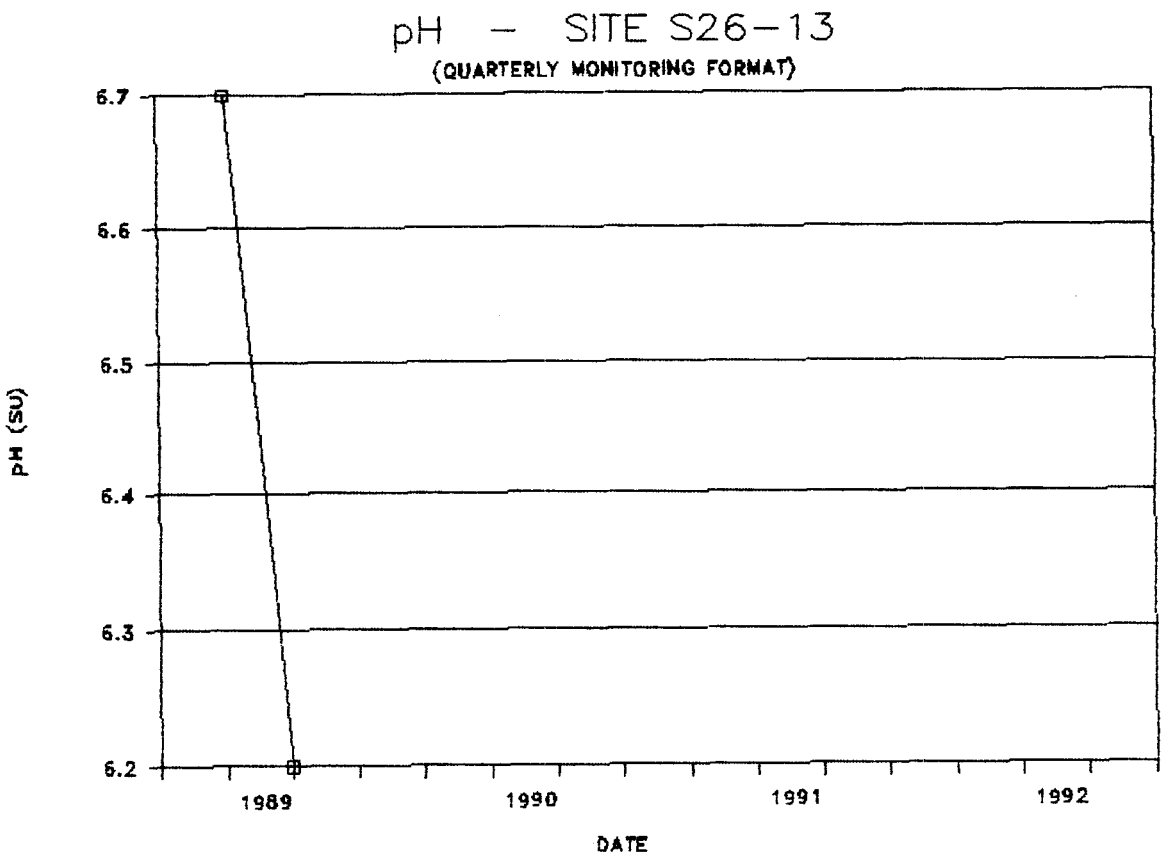
FLOW – SITE S26–13

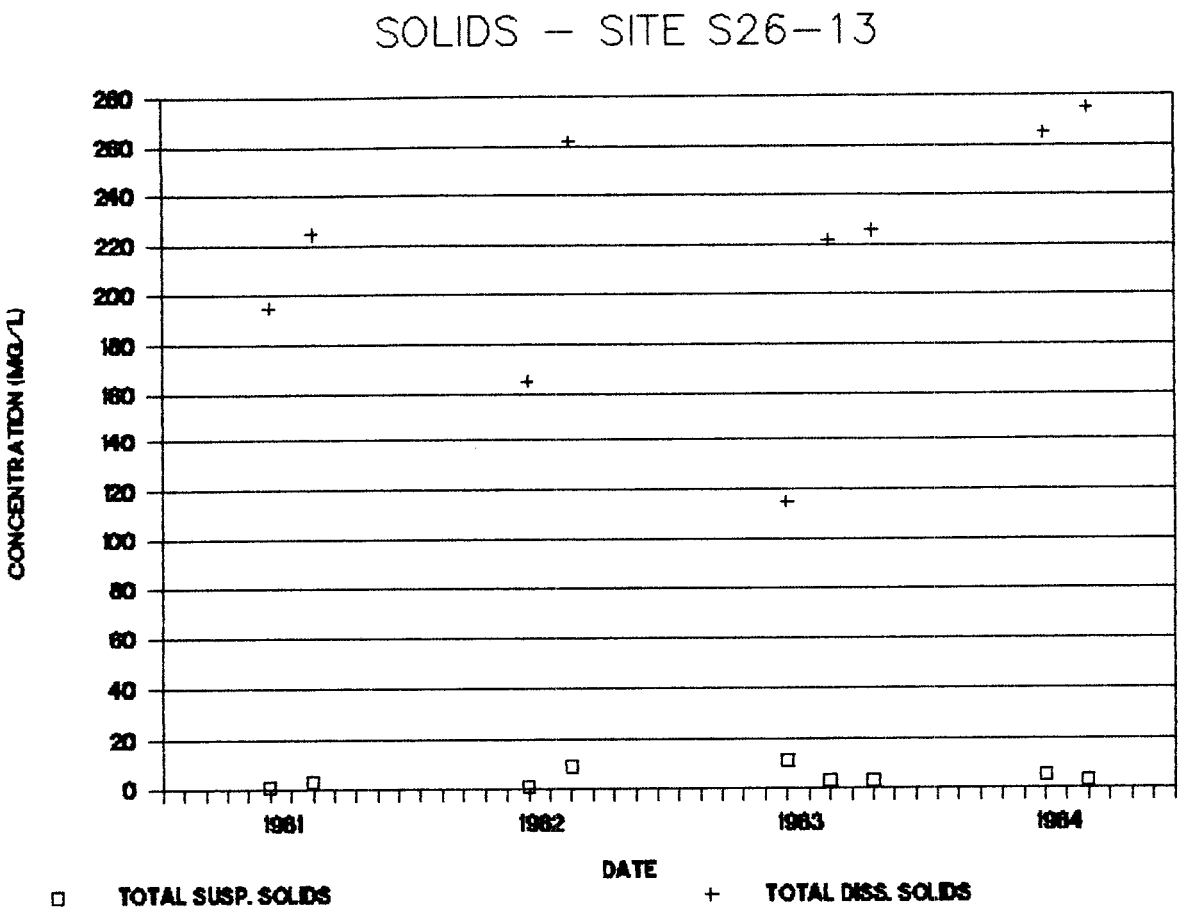


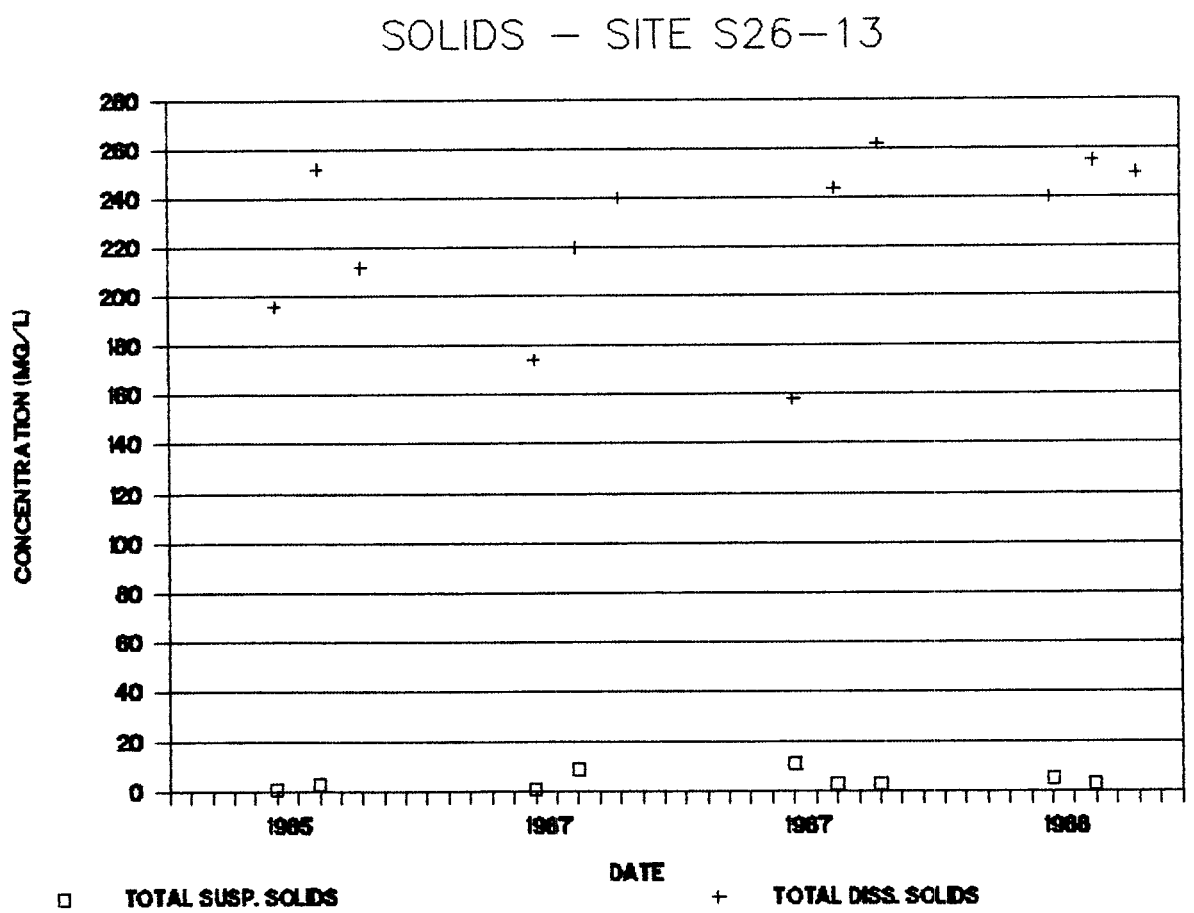

FLOW - SITE S26-13
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
1989
1990
1991
1992
DATE

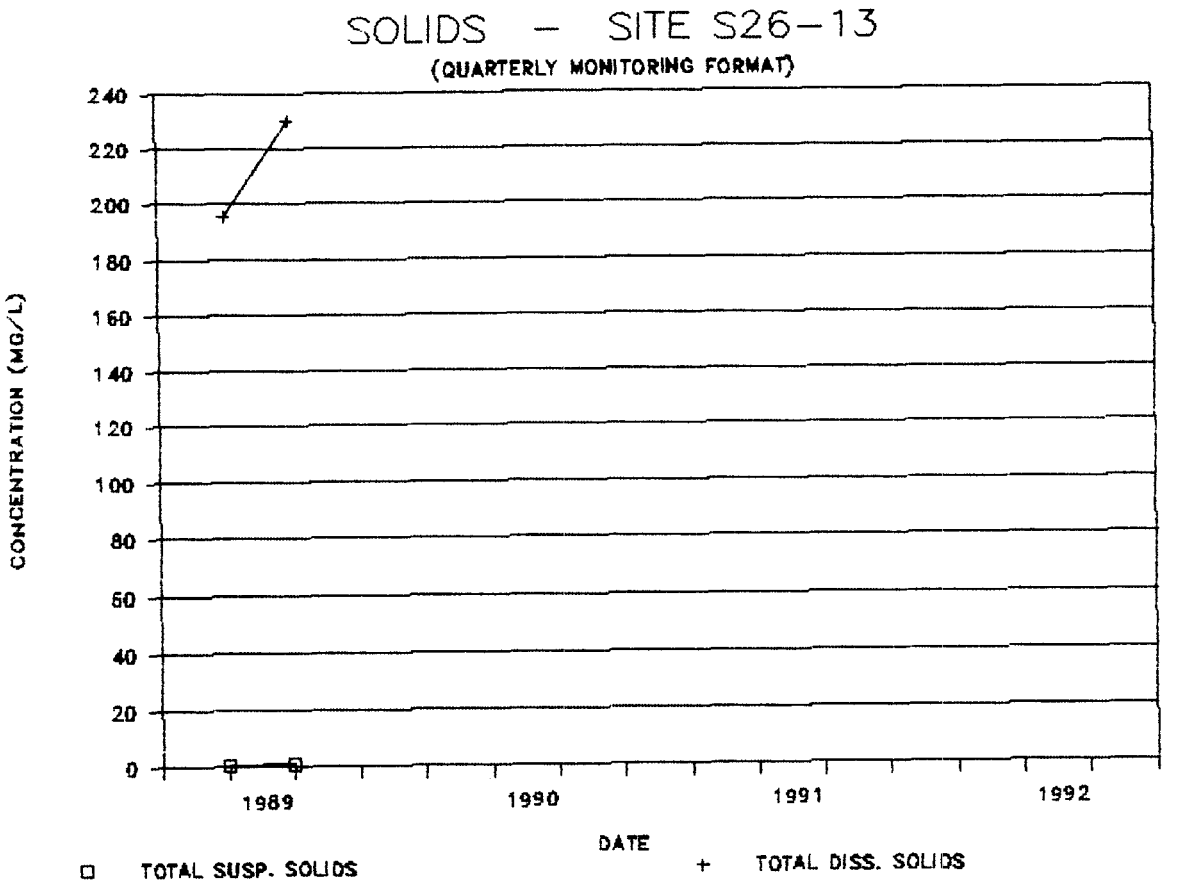

pH – SITE S26–13
pH (S U)
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
6.3
6.2
6.1
6
1981
1982
1983
1984
DATE


pH – SITE S26–13
pH (S U)
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
6.3
6.2
6.1
1985
1987
1987
1988
DATE

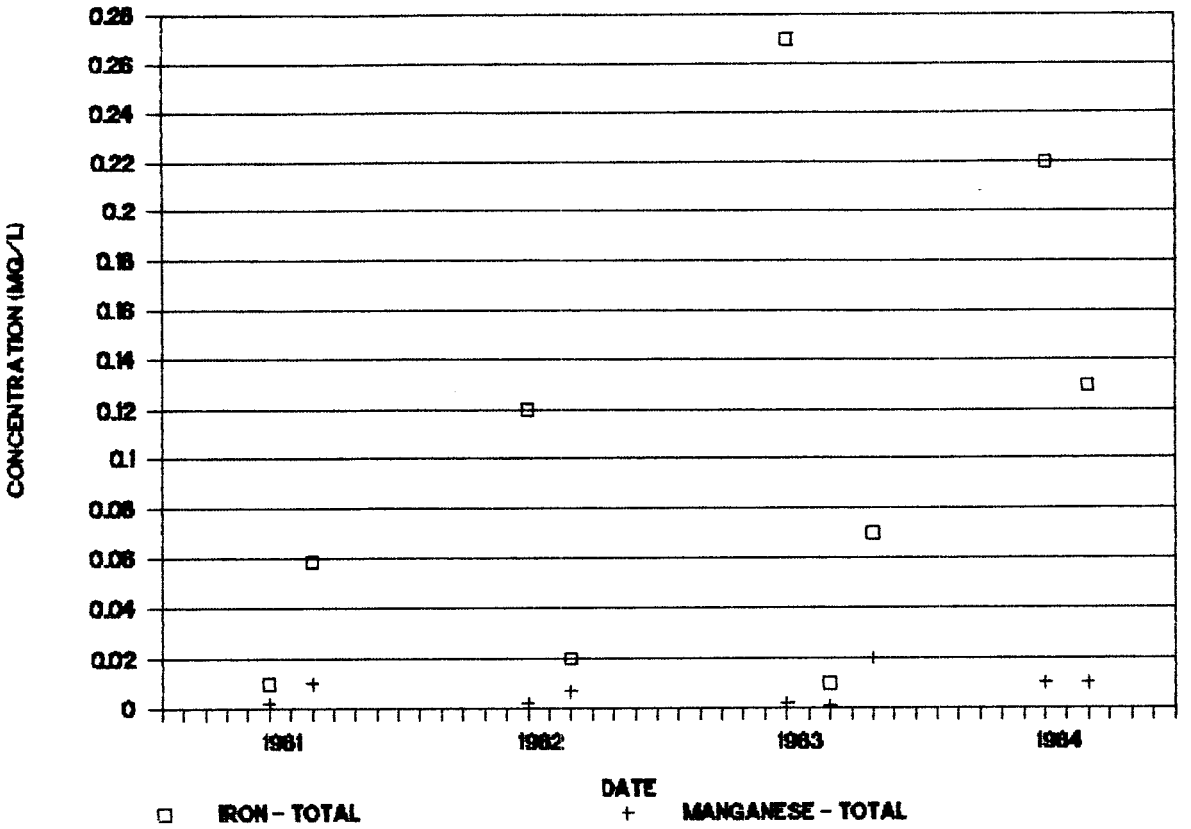

pH - SITE S26-13
(QUARTERLY MONITORING FORMAT)
6.7
6.6
6.5
6.4
6.3
6.2
pH (SU)
1989
1990
1991
1992
DATE


SOLIDS – SITE S26-13
CONCENTRATION (MG/L)
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
1961
1962
1963
1964
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

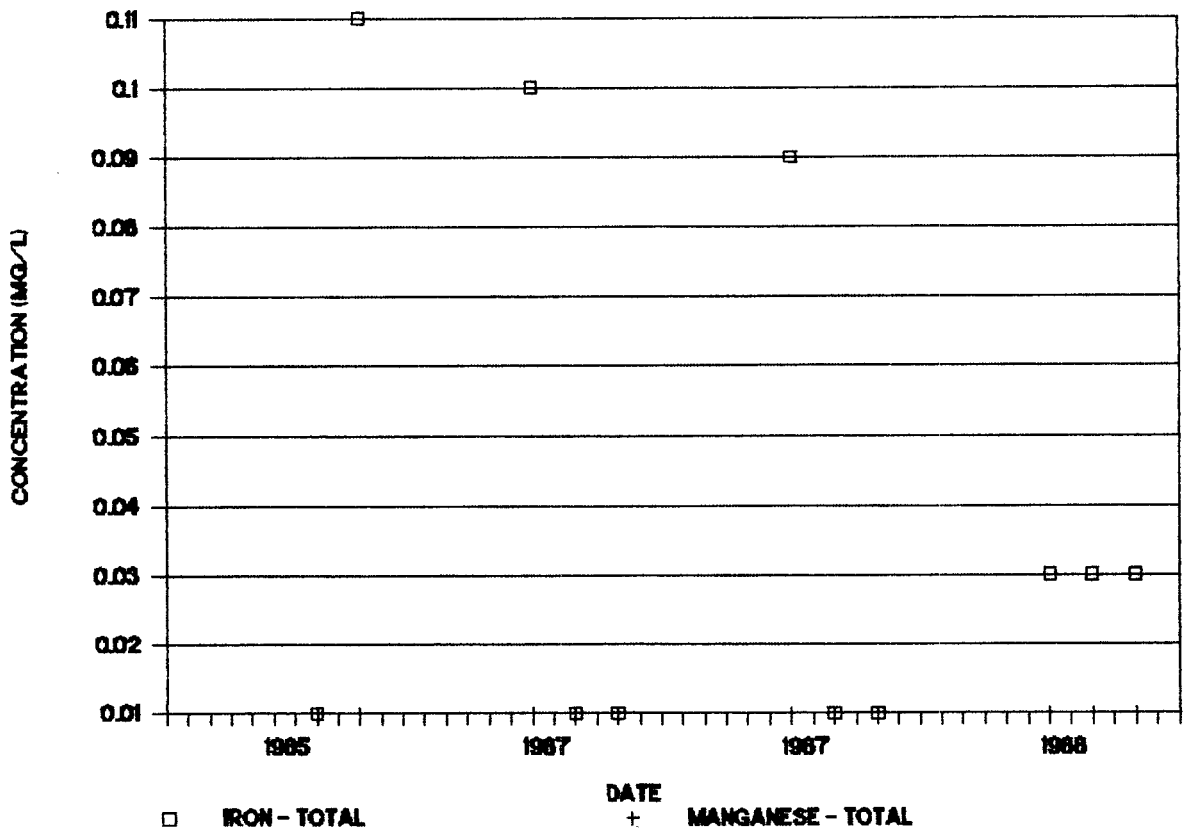

SOLIDS – SITE S26-13
CONCENTRATION (MG/L)
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
1965
1967
1967
1968
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


SOLIDS - SITE S26-13
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

IRON/MANGANESE – SITE S26–13

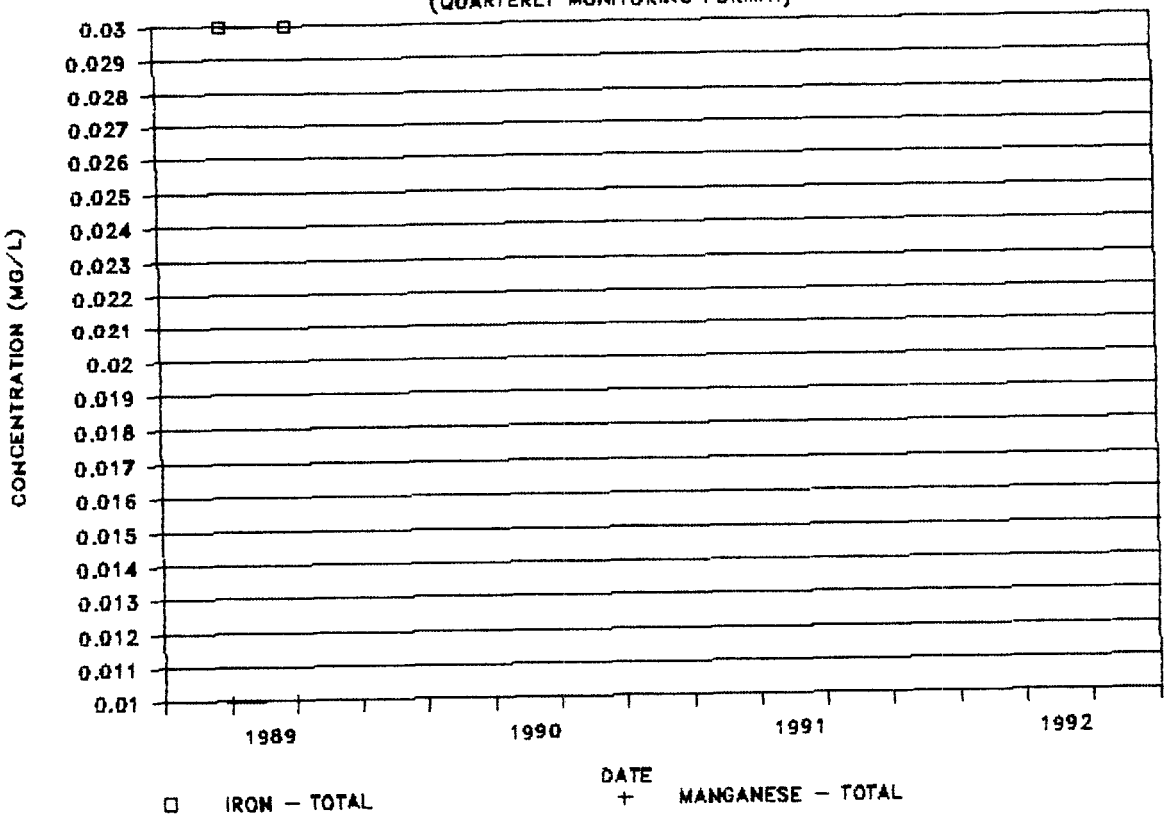


IRON/MANGANESE – SITE S26–13

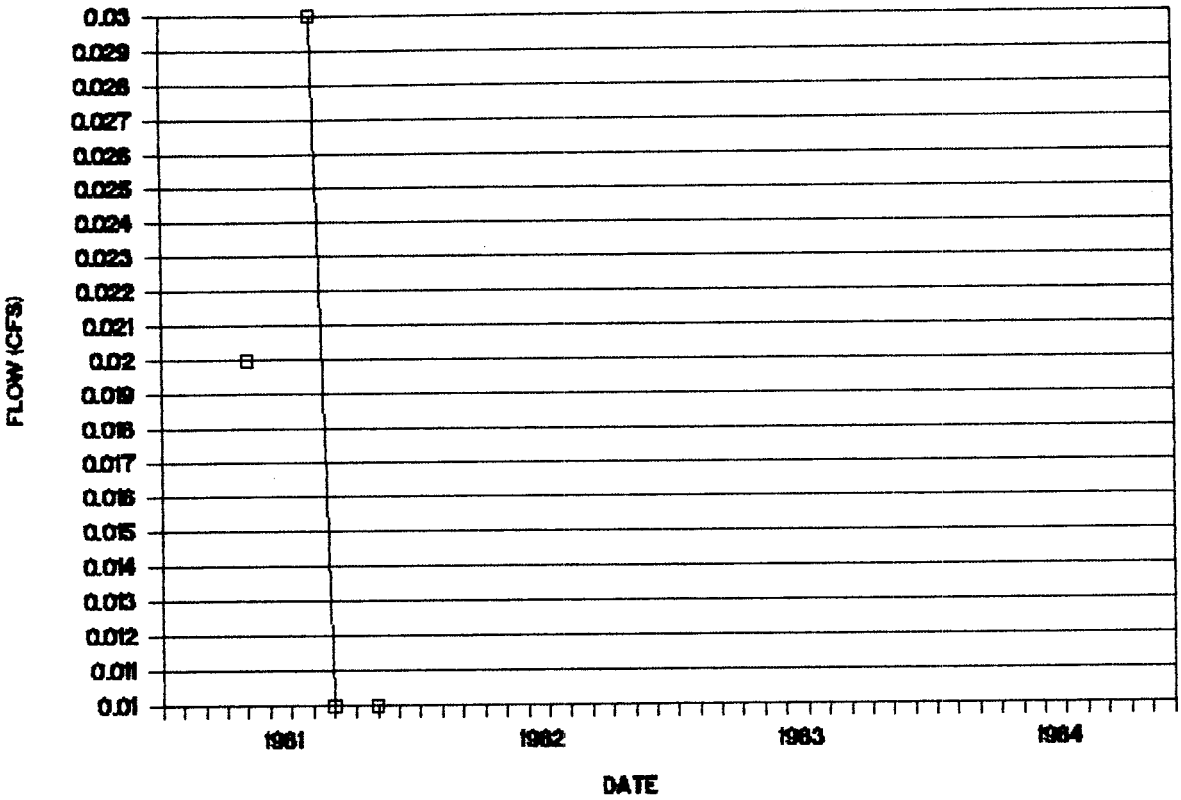


IRON/MANGANESE – SITE S26-13

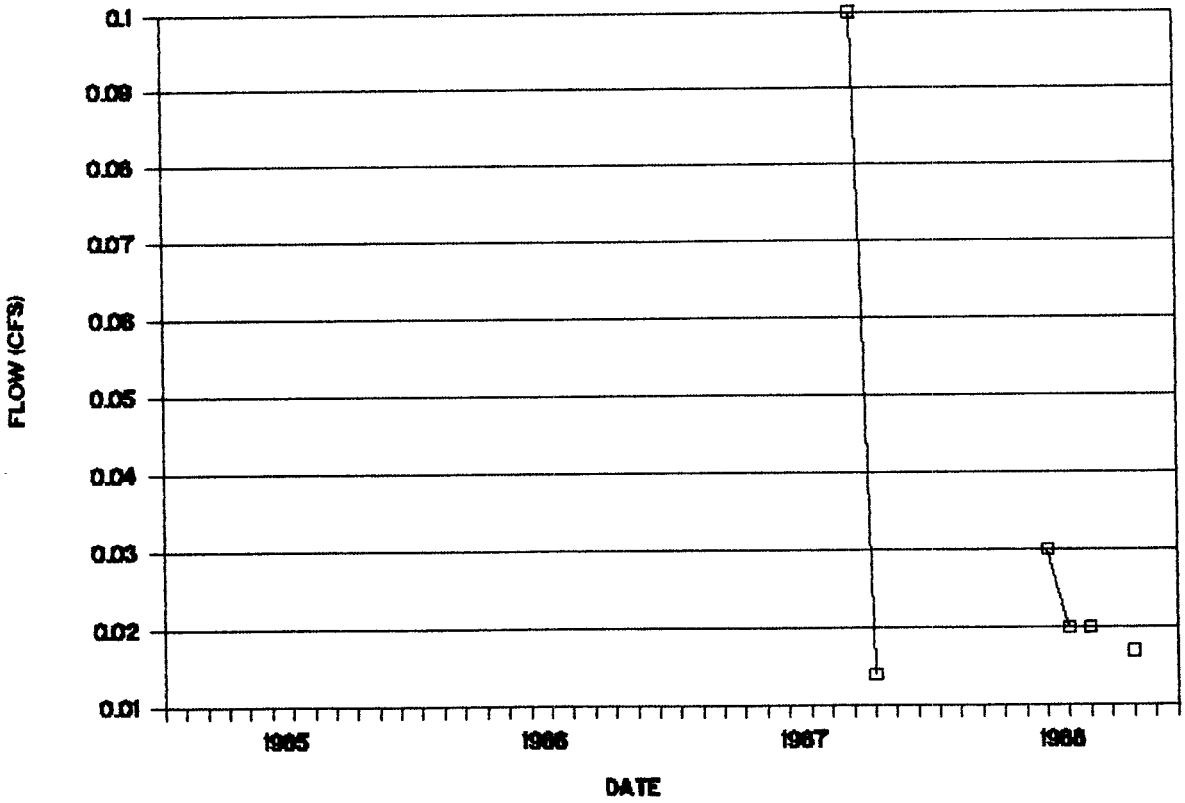
(QUARTERLY MONITORING FORMAT)

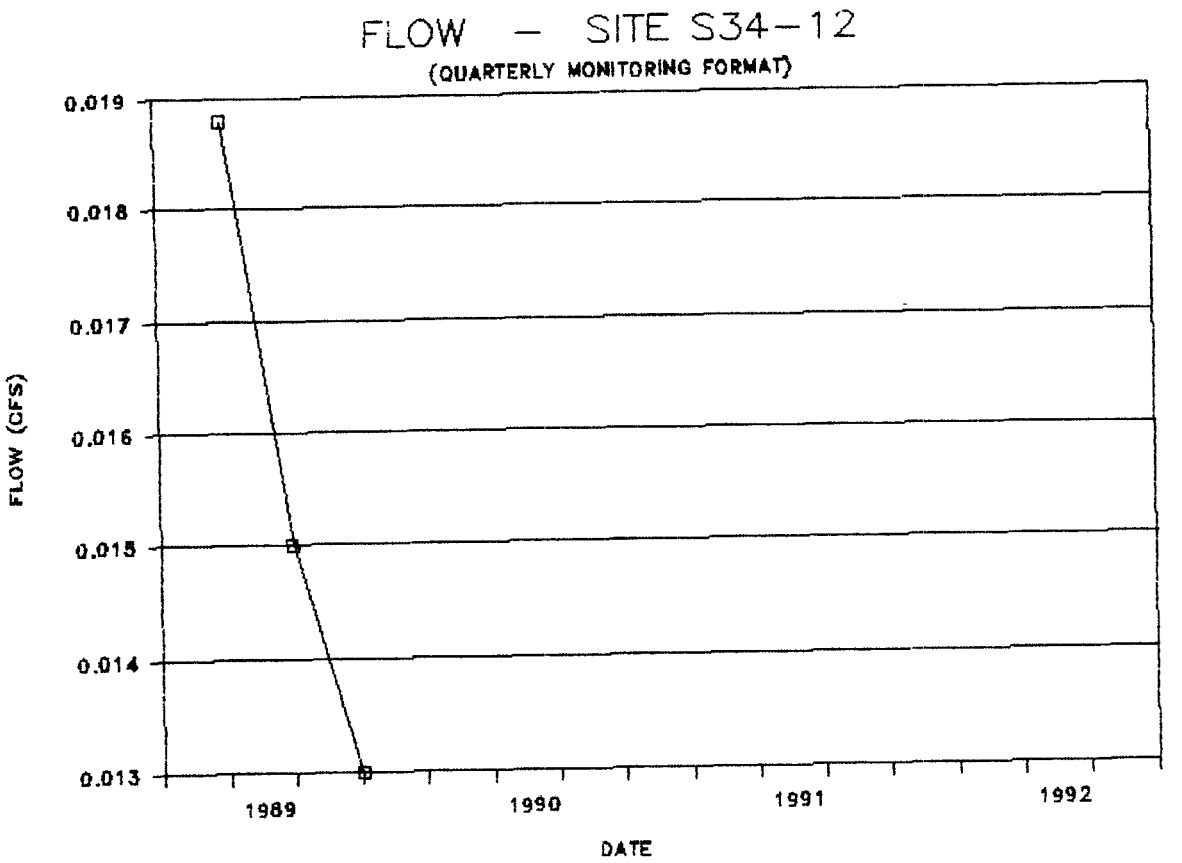


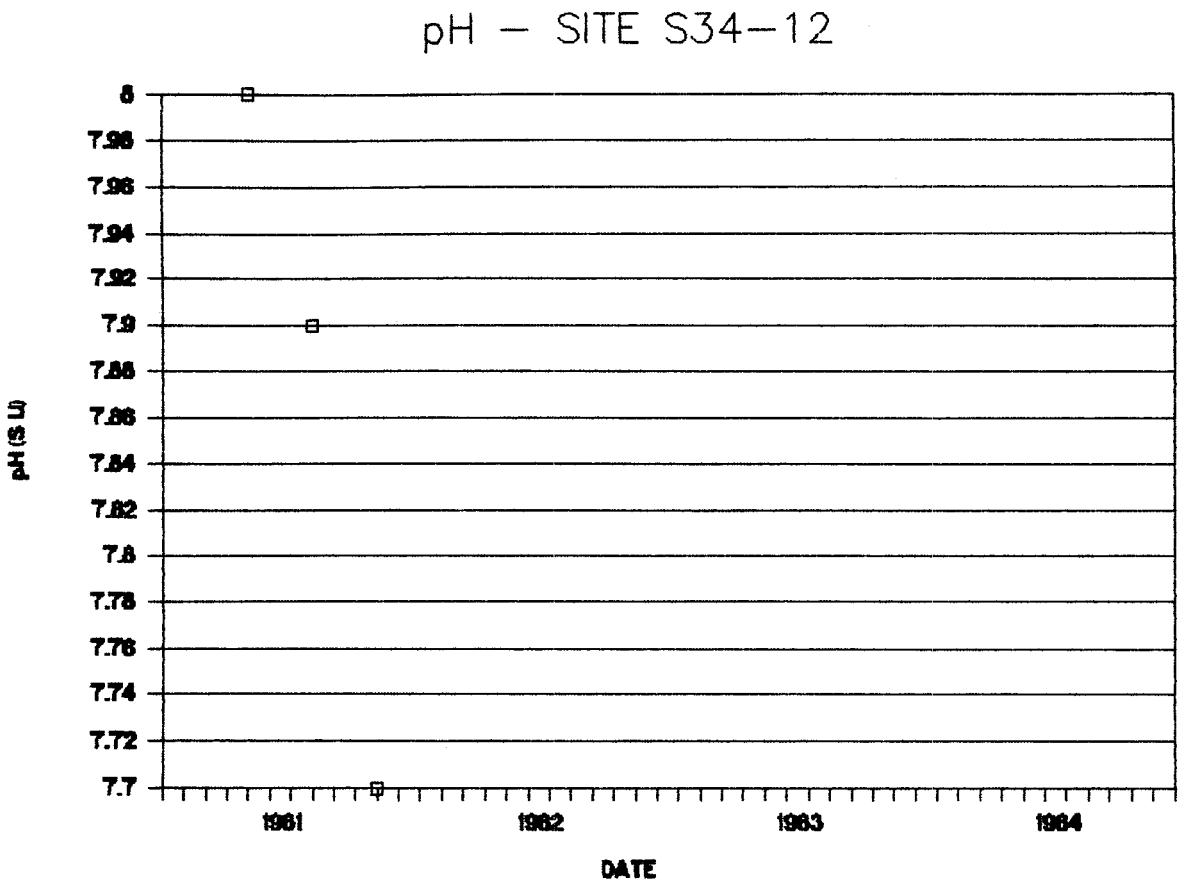
FLOW – SITE S34–12

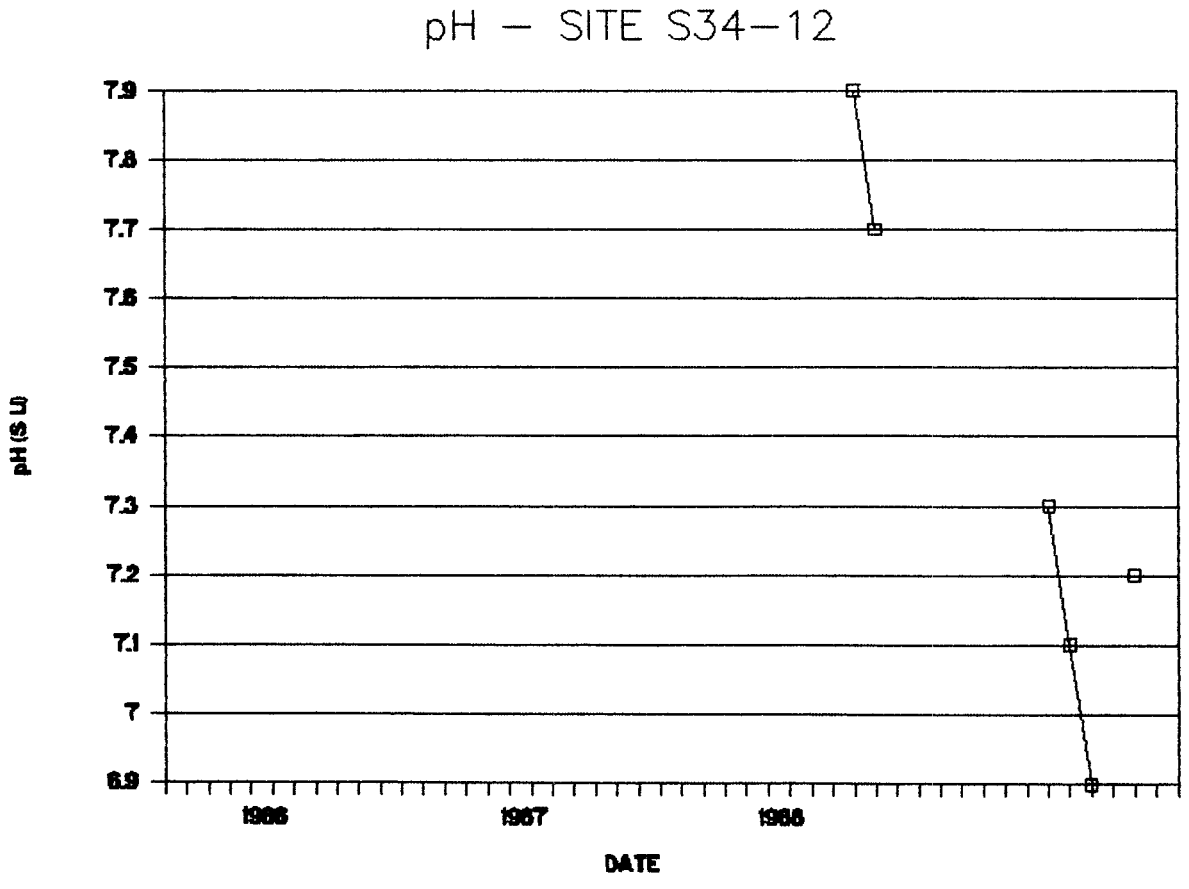


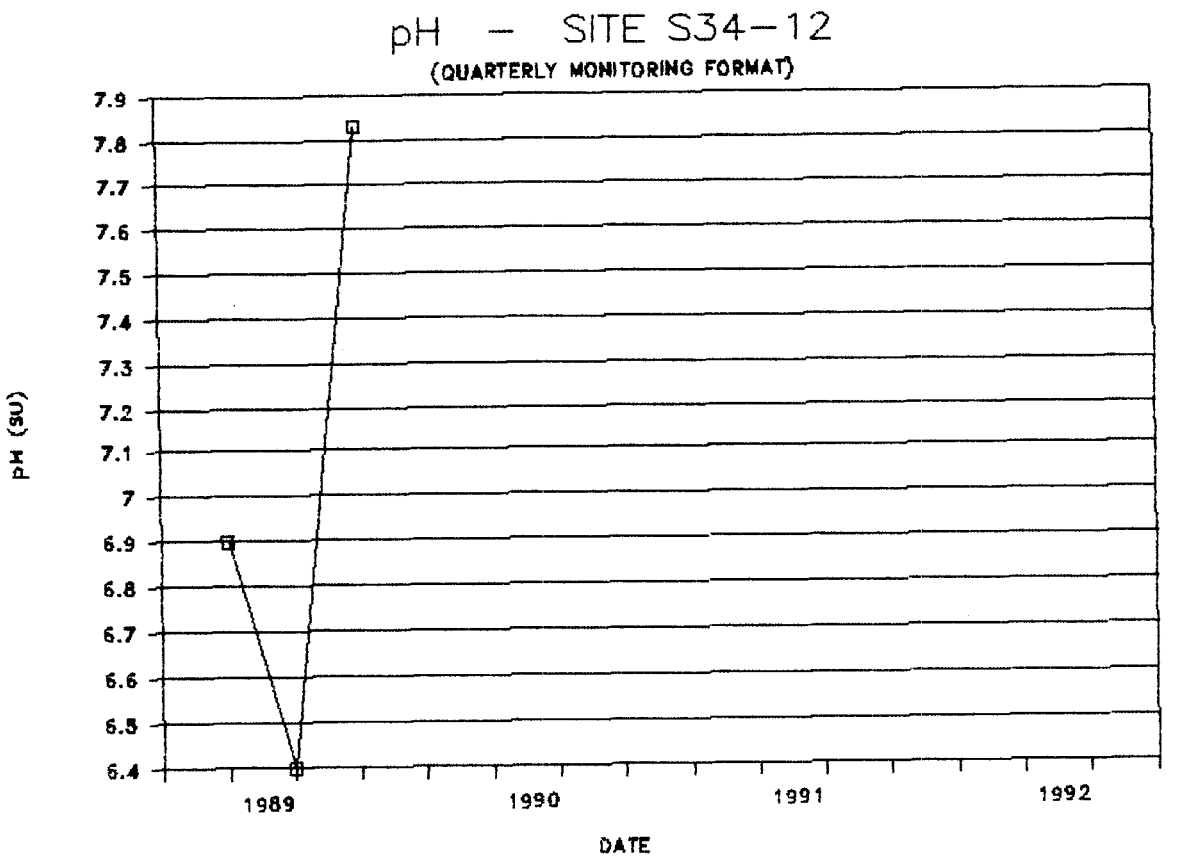
FLOW – SITE S34–12

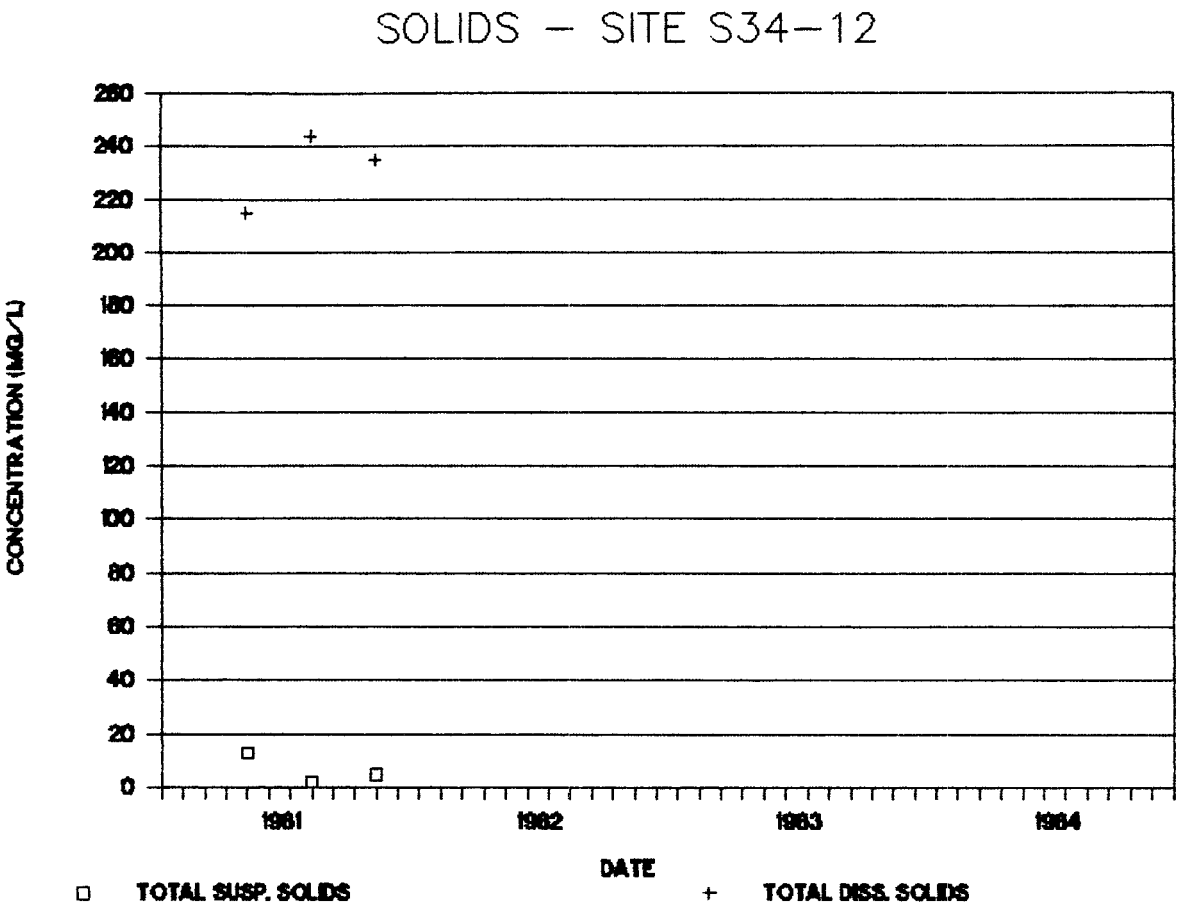


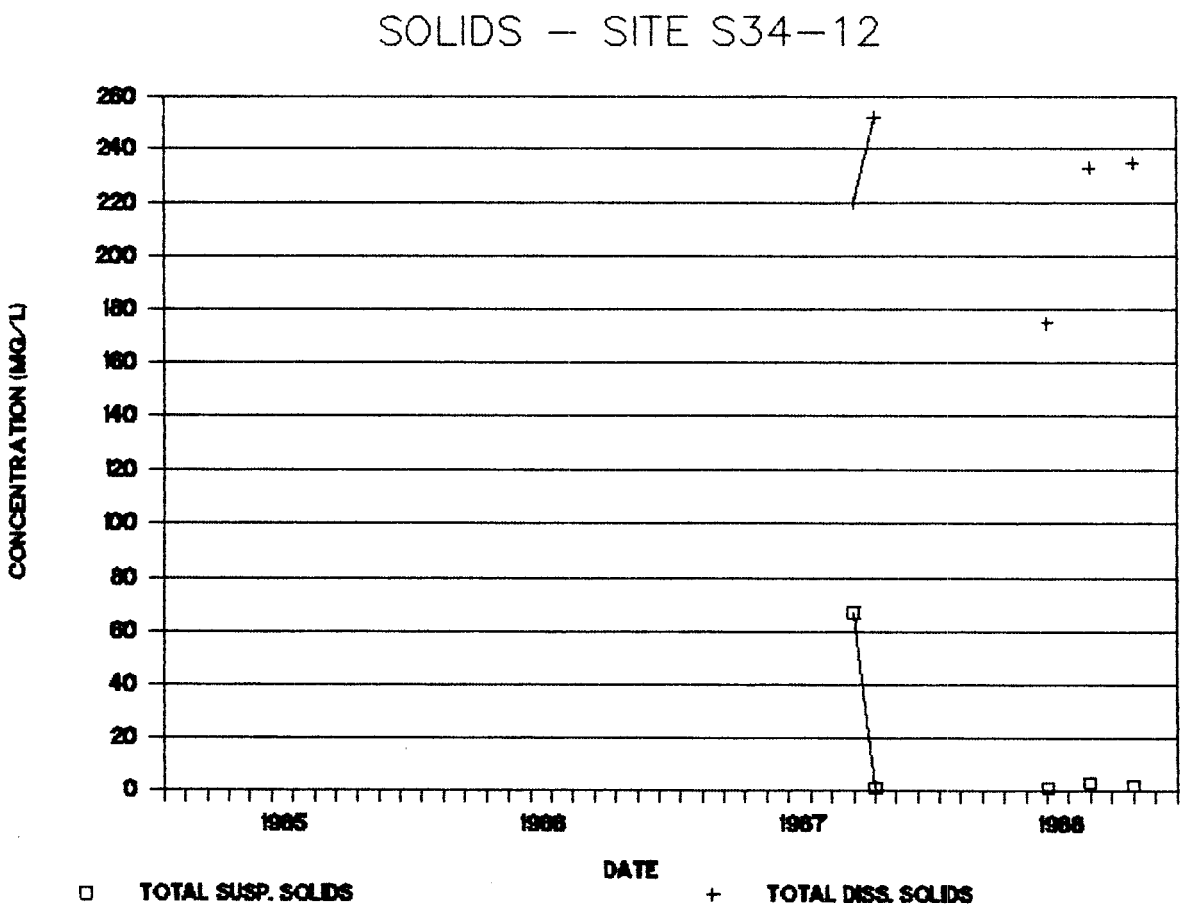

FLOW - SITE S34-12
(QUARTERLY MONITORING FORMAT)
0.019
0.018
0.017
0.016
0.015
0.014
0.013
FLOW (CFS)
1989
1990
1991
1992
DATE

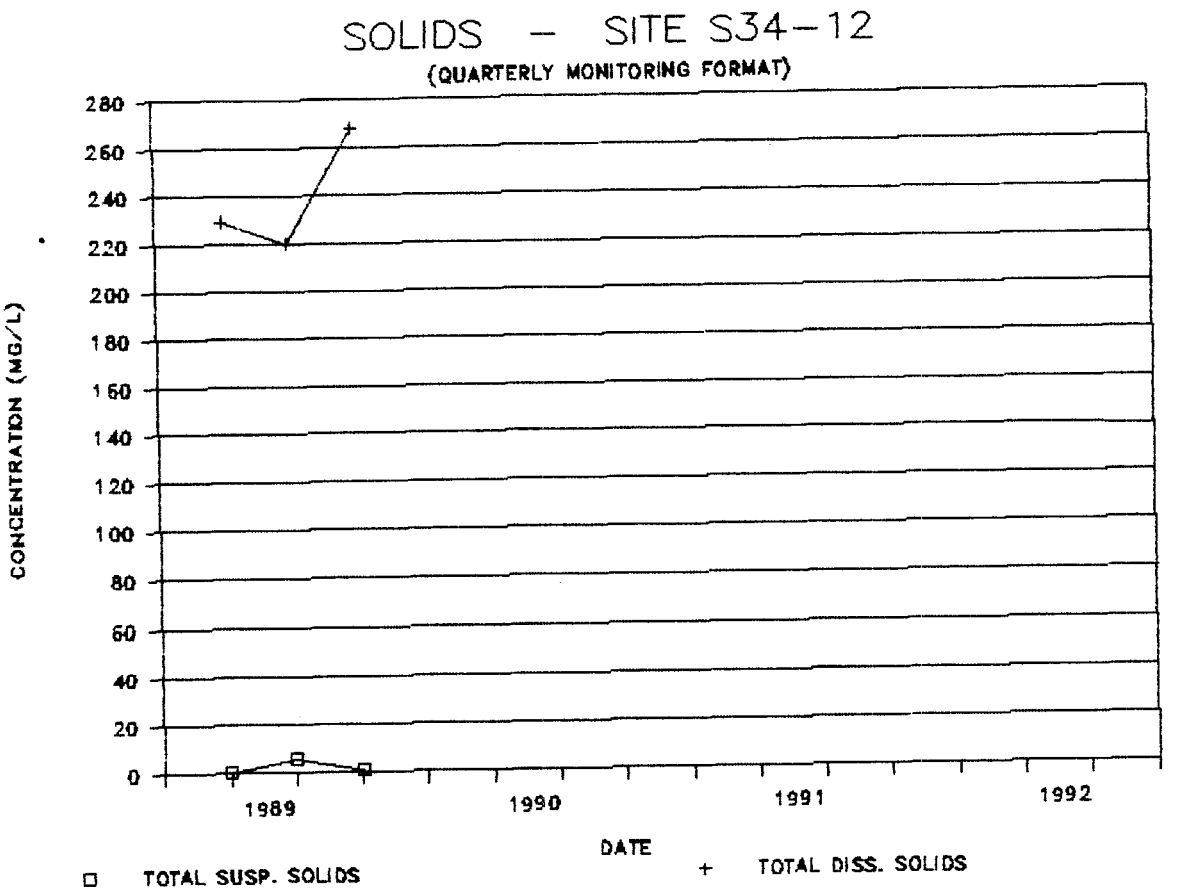

pH – SITE S34–12
8
7.98
7.96
7.94
7.92
7.9
7.88
7.86
7.84
7.82
7.8
7.78
7.76
7.74
7.72
7.7
pH (S.U.)
1961
1962
1963
1964
DATE

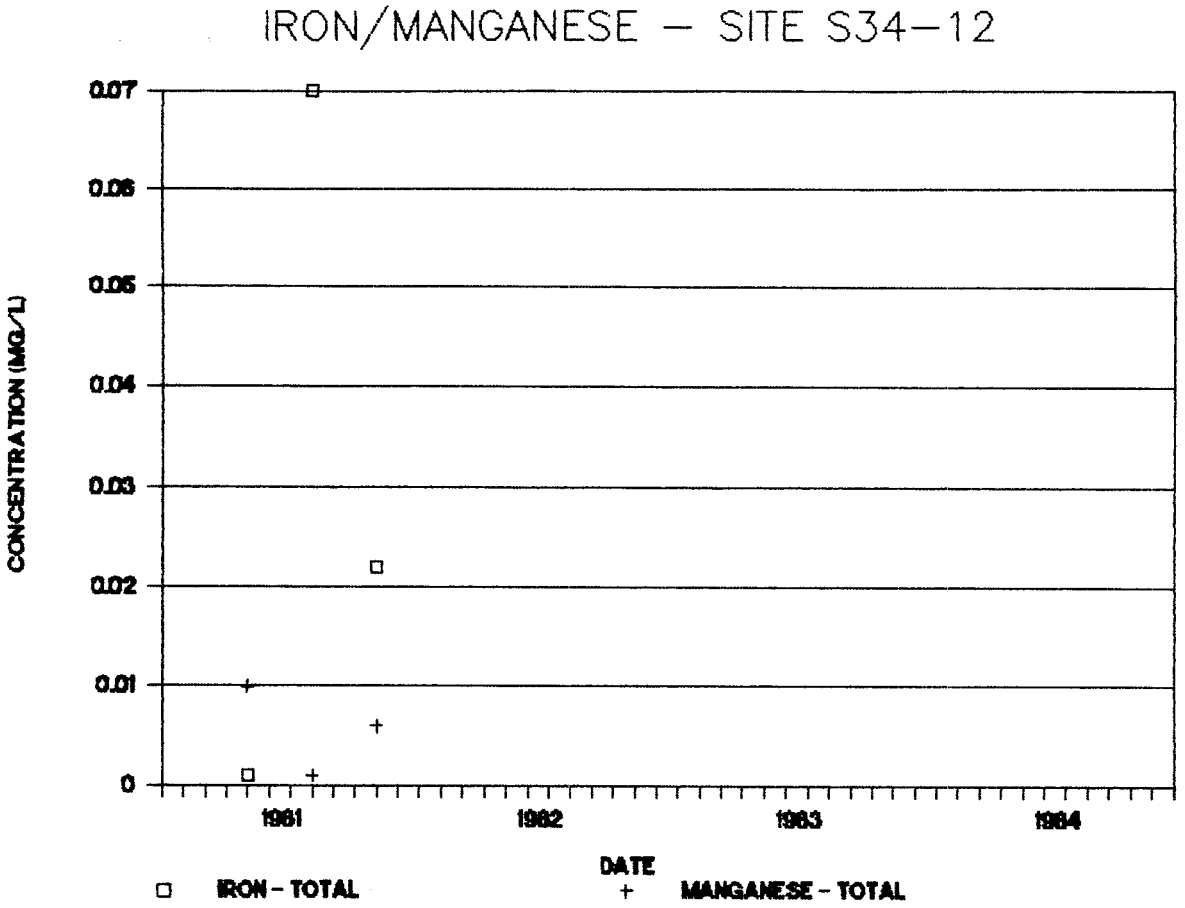

pH – SITE S34–12
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
pH (S.U.)
1966
1967
1968
DATE

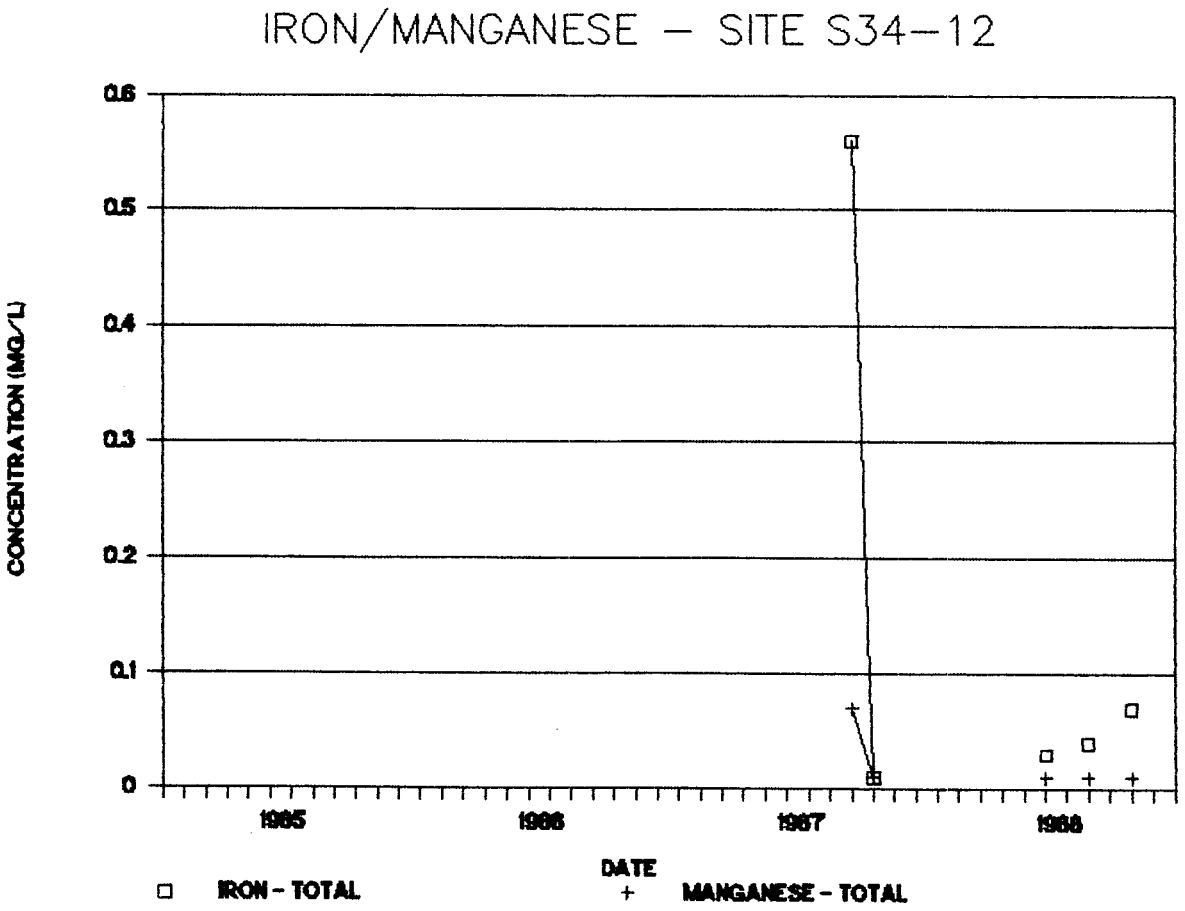

pH - SITE S34-12
(QUARTERLY MONITORING FORMAT)
pH (SU)
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
1989
1990
1991
1992
DATE


SOLIDS – SITE S34-12
CONCENTRATION (MG/L)
260
240
220
200
180
160
140
120
100
80
60
40
20
0
1981
1982
1983
1984
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


SOLIDS – SITE S34-12
CONCENTRATION (MG/L)
260
240
220
200
180
160
140
120
100
80
60
40
20
0
1985
1986
1987
1988
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

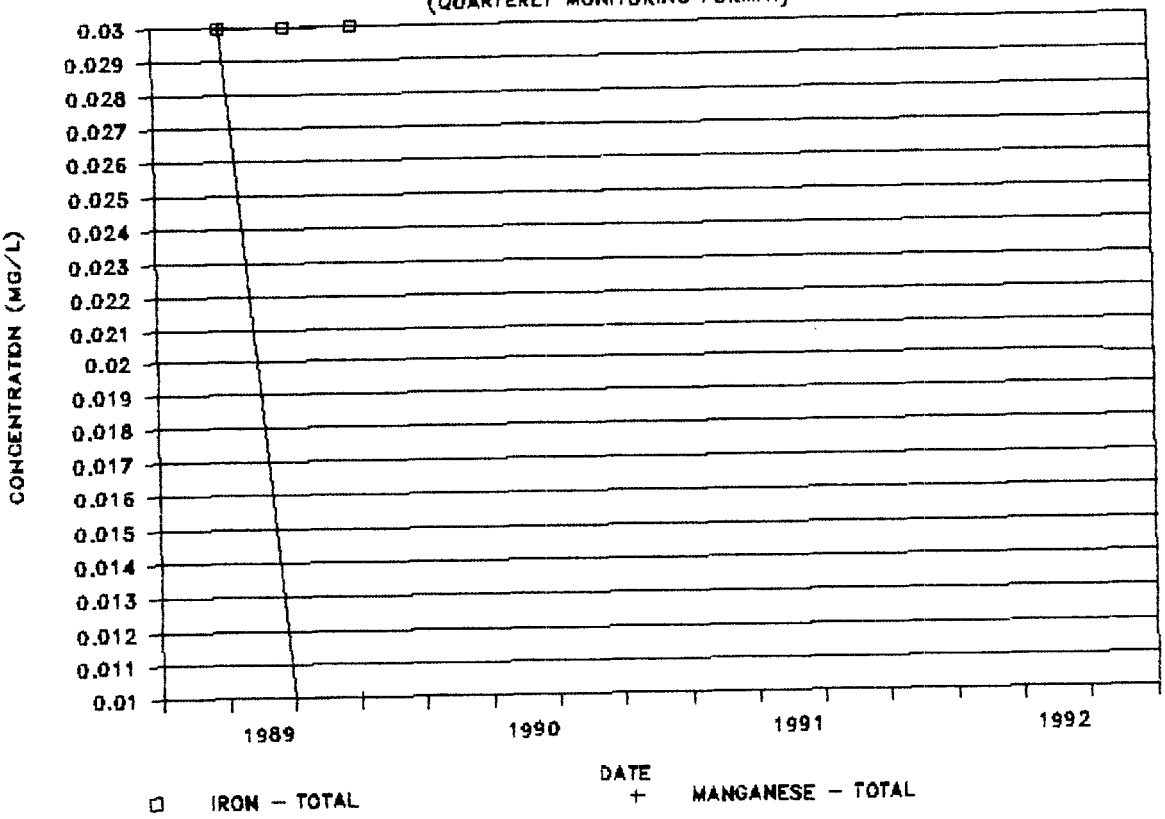

SOLIDS - SITE S34-12
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


IRON/MANGANESE – SITE S34–12
CONCENTRATION (MG/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1981
1982
1983
1984
DATE
IRON - TOTAL
MANGANESE - TOTAL

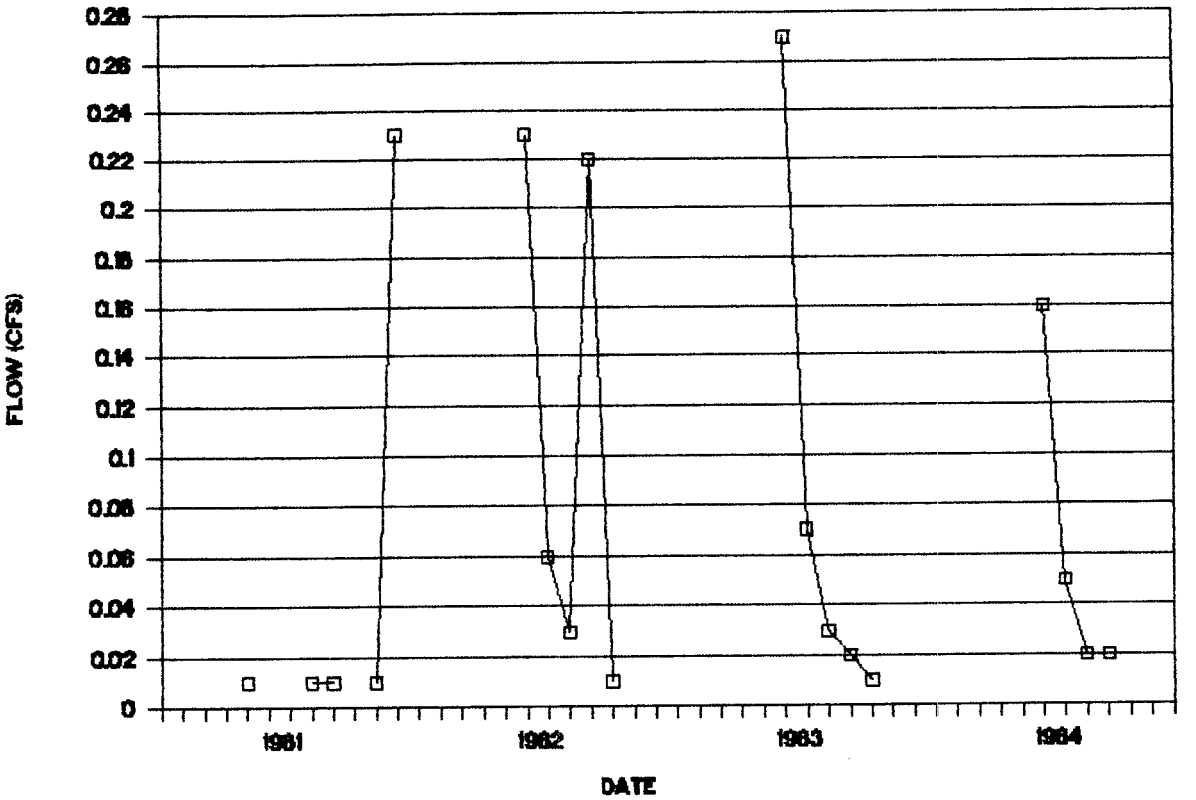

IRON/MANGANESE – SITE S34–12
CONCENTRATION (MG/L)
0.6
0.5
0.4
0.3
0.2
0.1
0
1985
1986
1987
1988
DATE
IRON - TOTAL
MANGANESE - TOTAL

IRON/MANGANESE - SITE S34-12

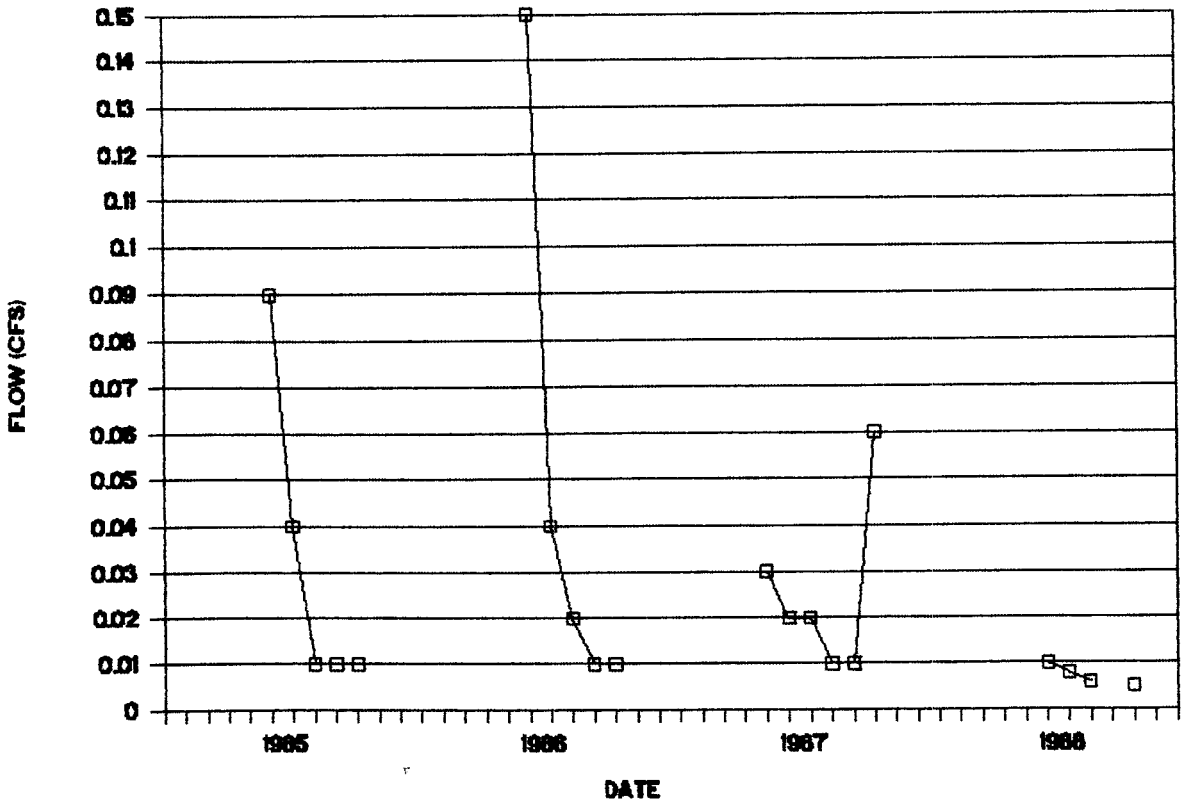
(QUARTERLY MONITORING FORMAT)

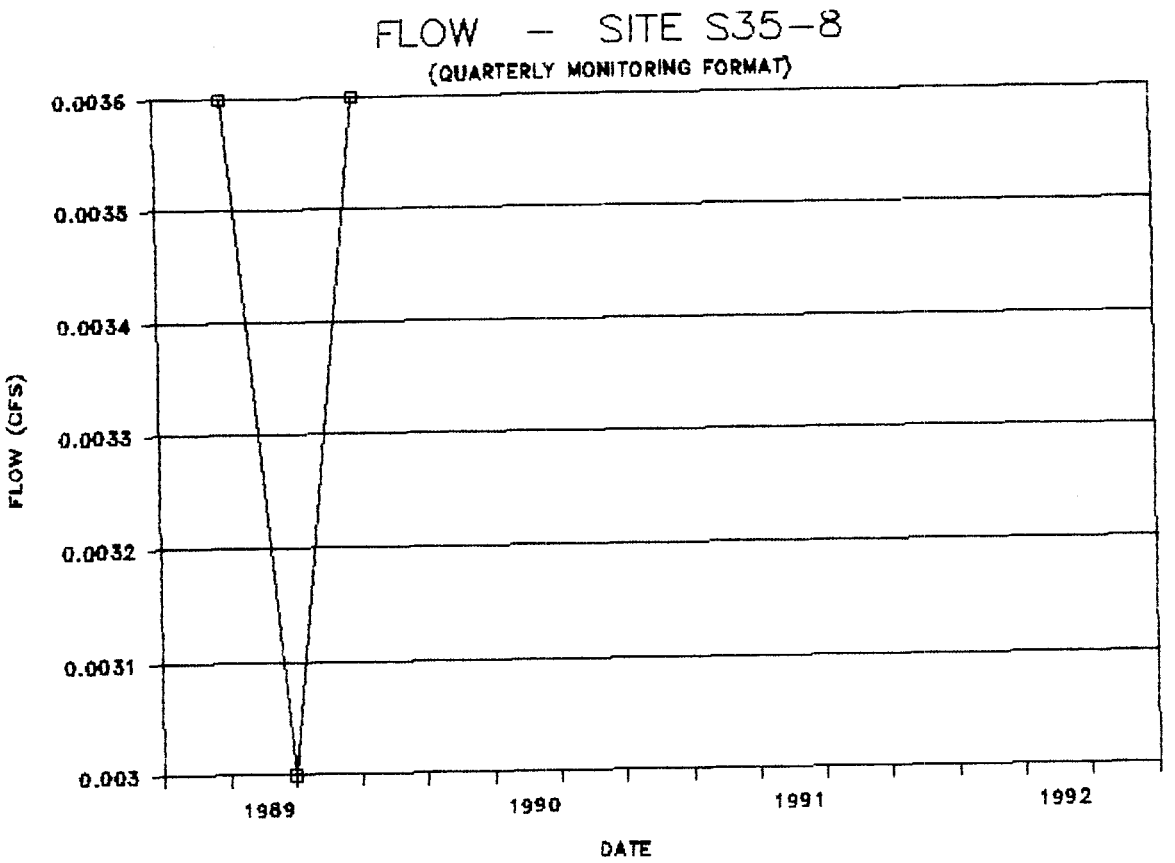


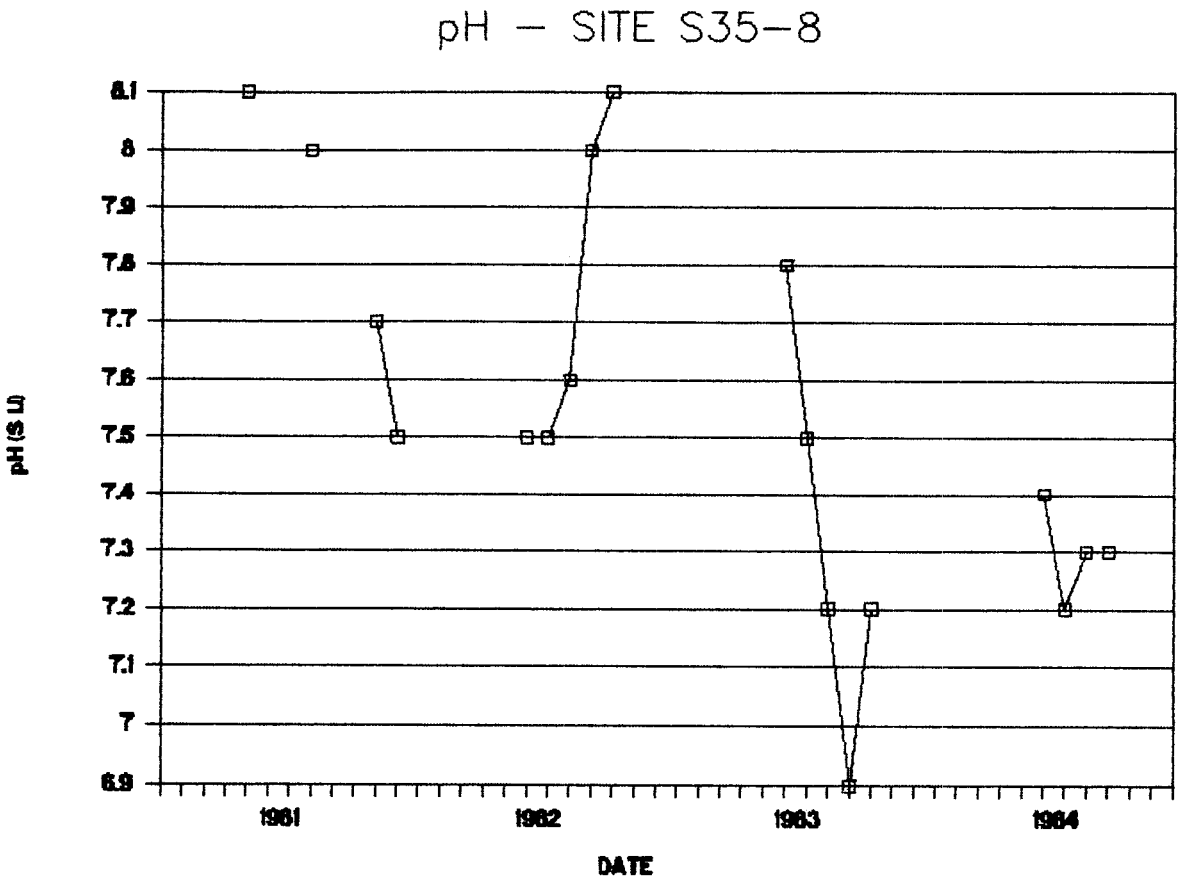
FLOW – SITE S35–8

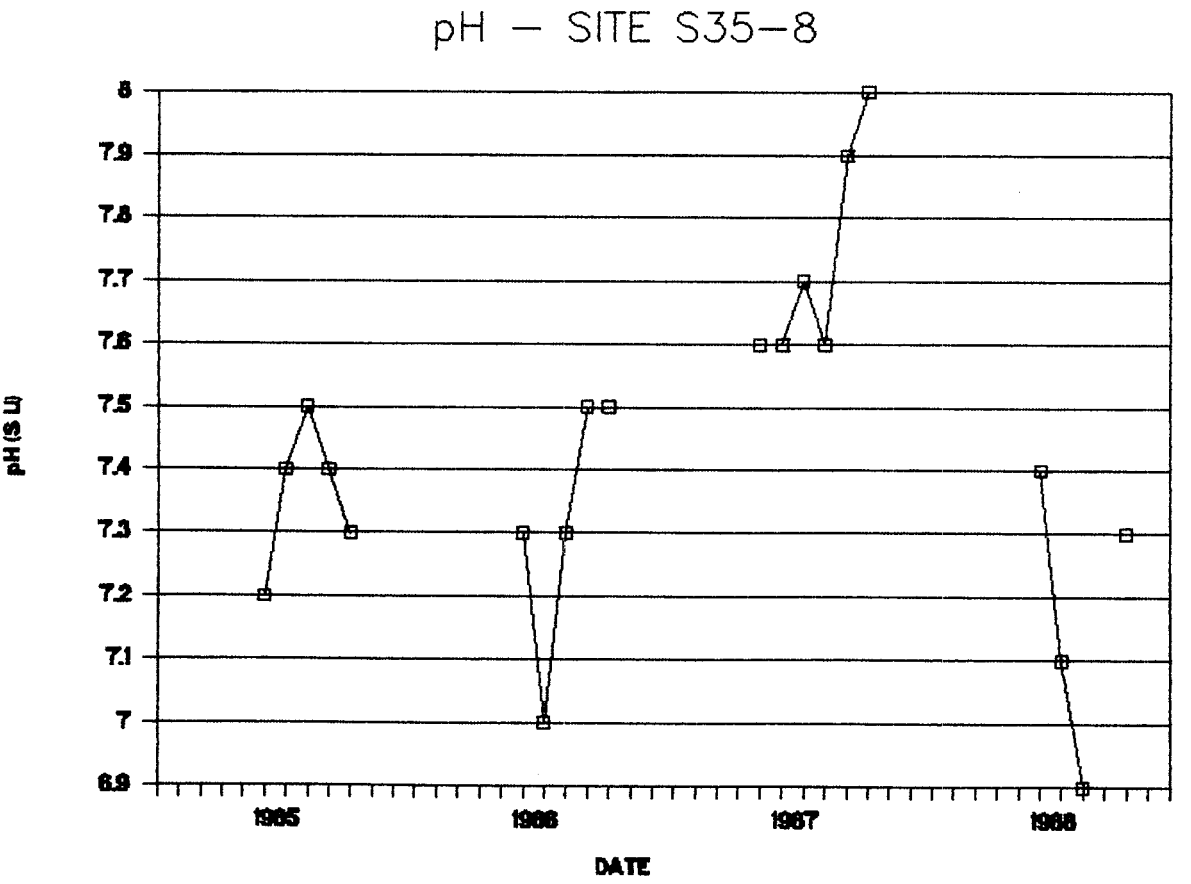


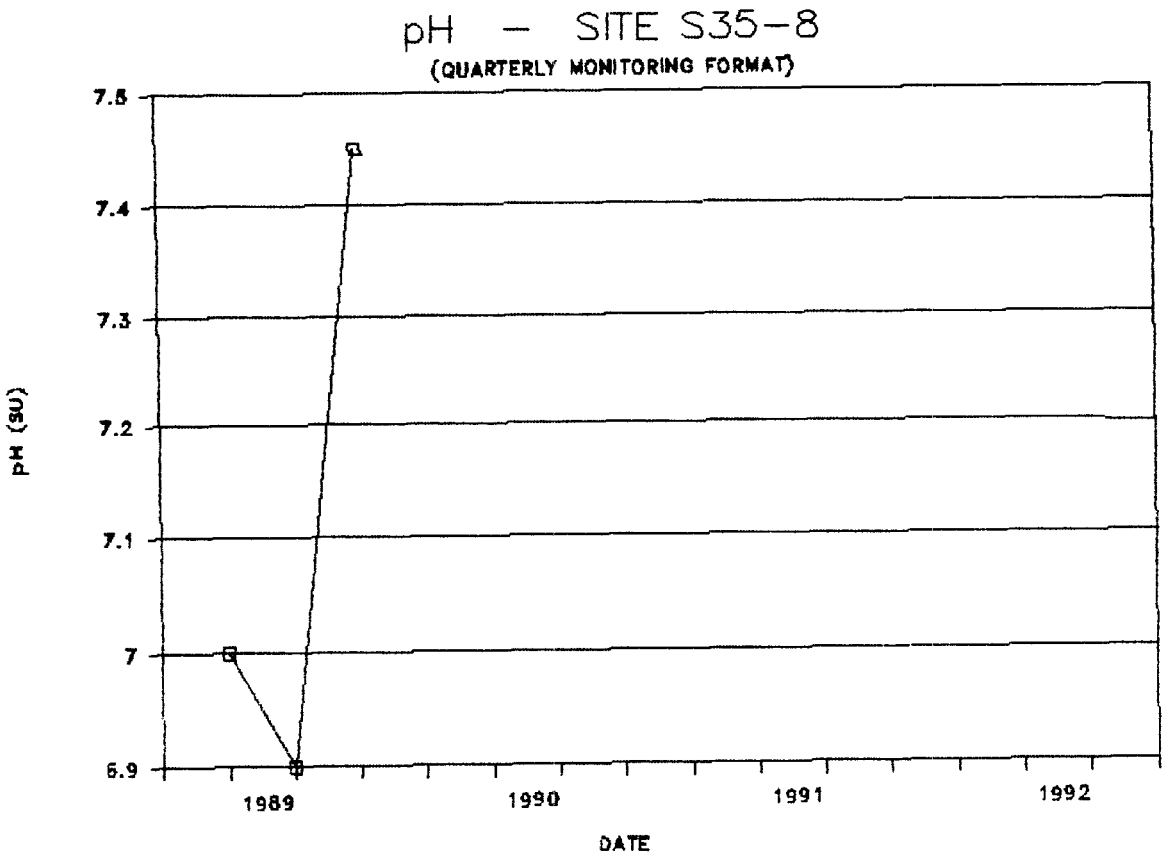
FLOW – SITE S35–8



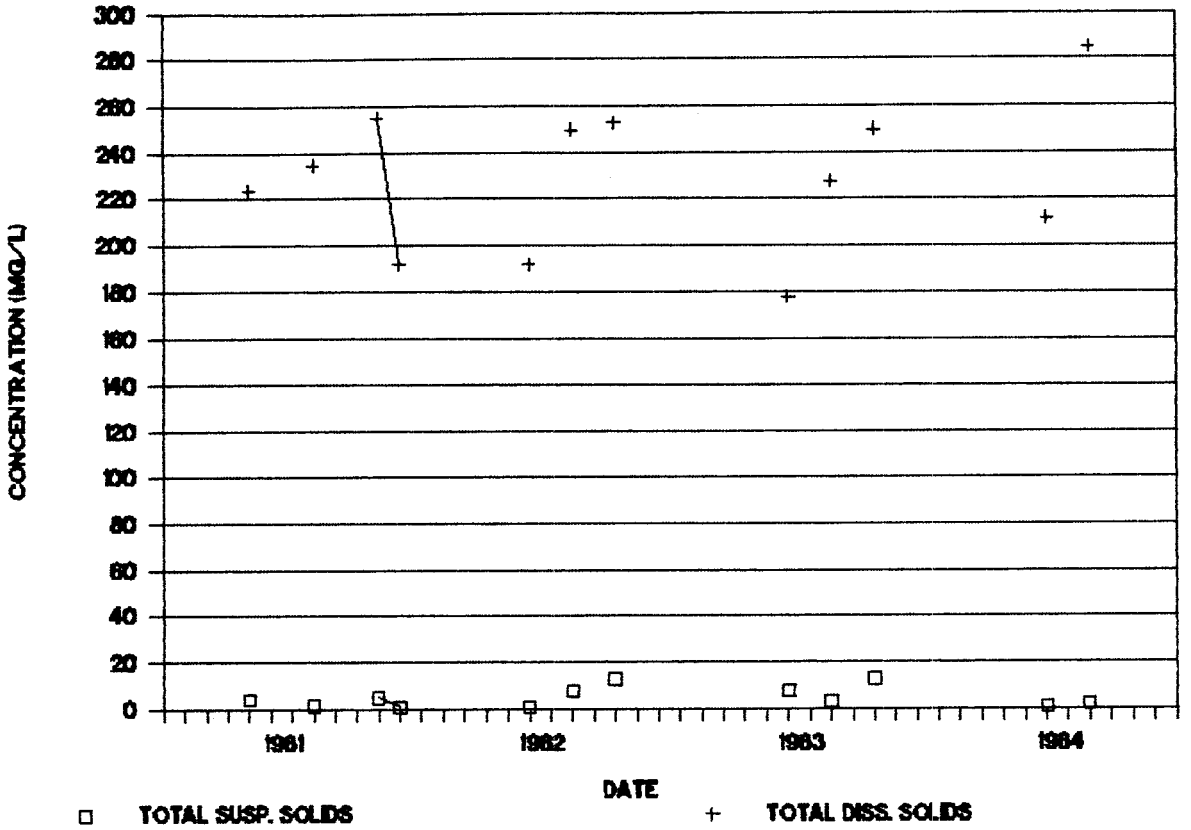

FLOW - SITE S35-8
(QUARTERLY MONITORING FORMAT)
0.0036
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
FLOW (CFS)
1989
1990
1991
1992
DATE


pH – SITE S35–8
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
pH (S.U.)
1981
1982
1983
1984
DATE

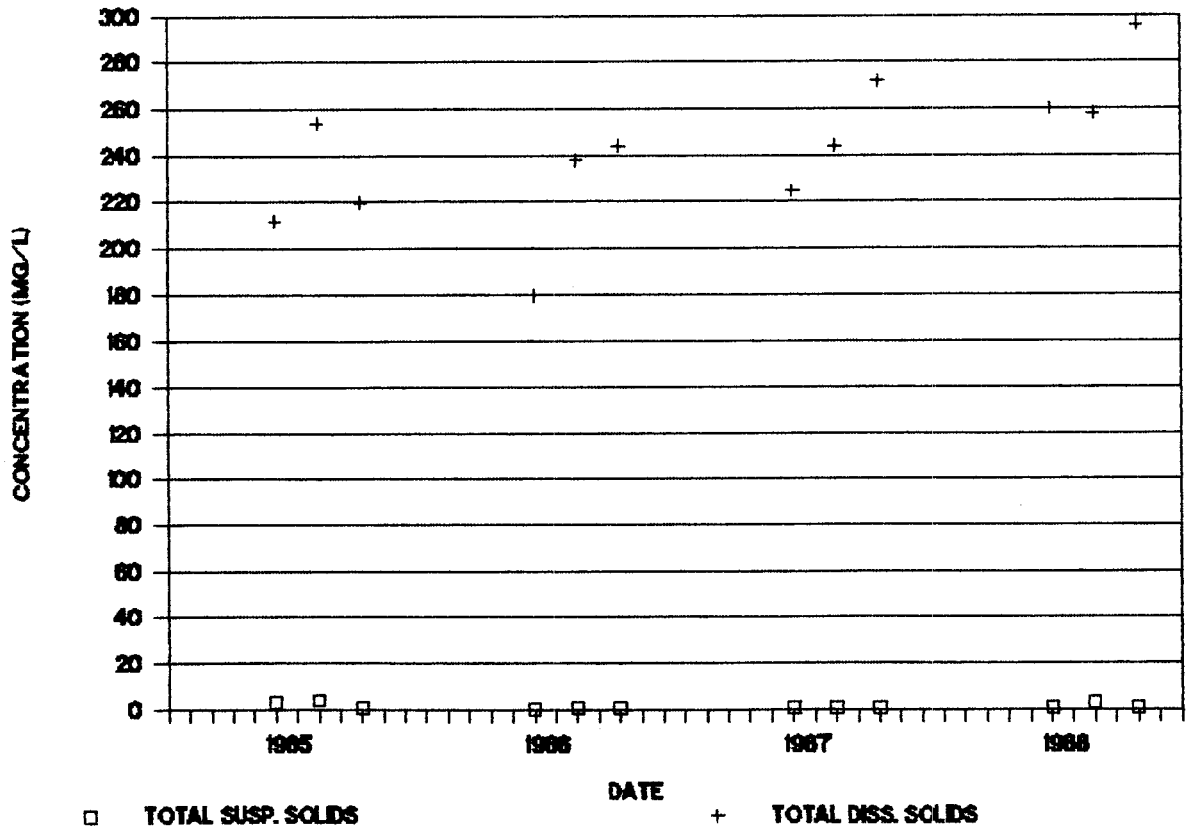

pH – SITE S35–8
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
pH (S.U.)
1985
1986
1987
1988
DATE

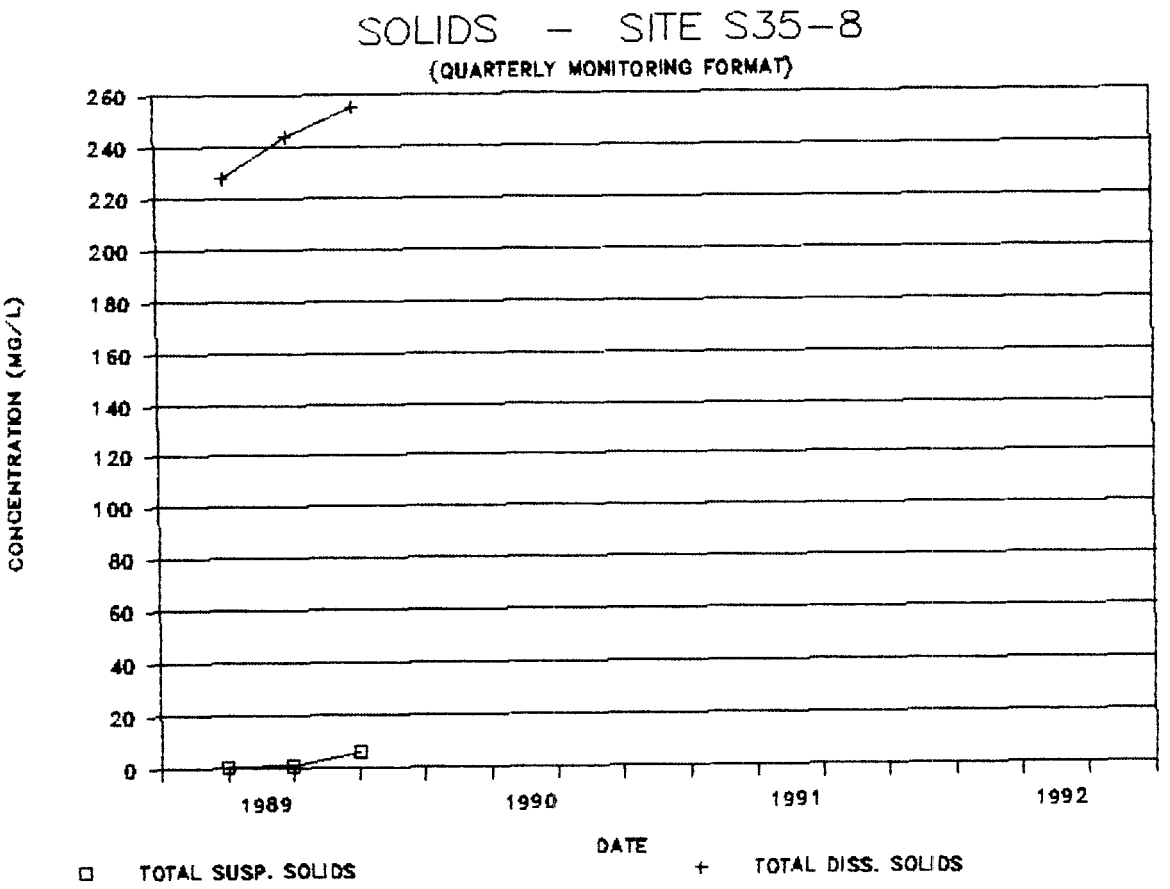

pH - SITE S35-8
(QUARTERLY MONITORING FORMAT)
7.5
7.4
7.3
7.2
7.1
7
6.9
pH (SU)
1989
1990
1991
1992
DATE

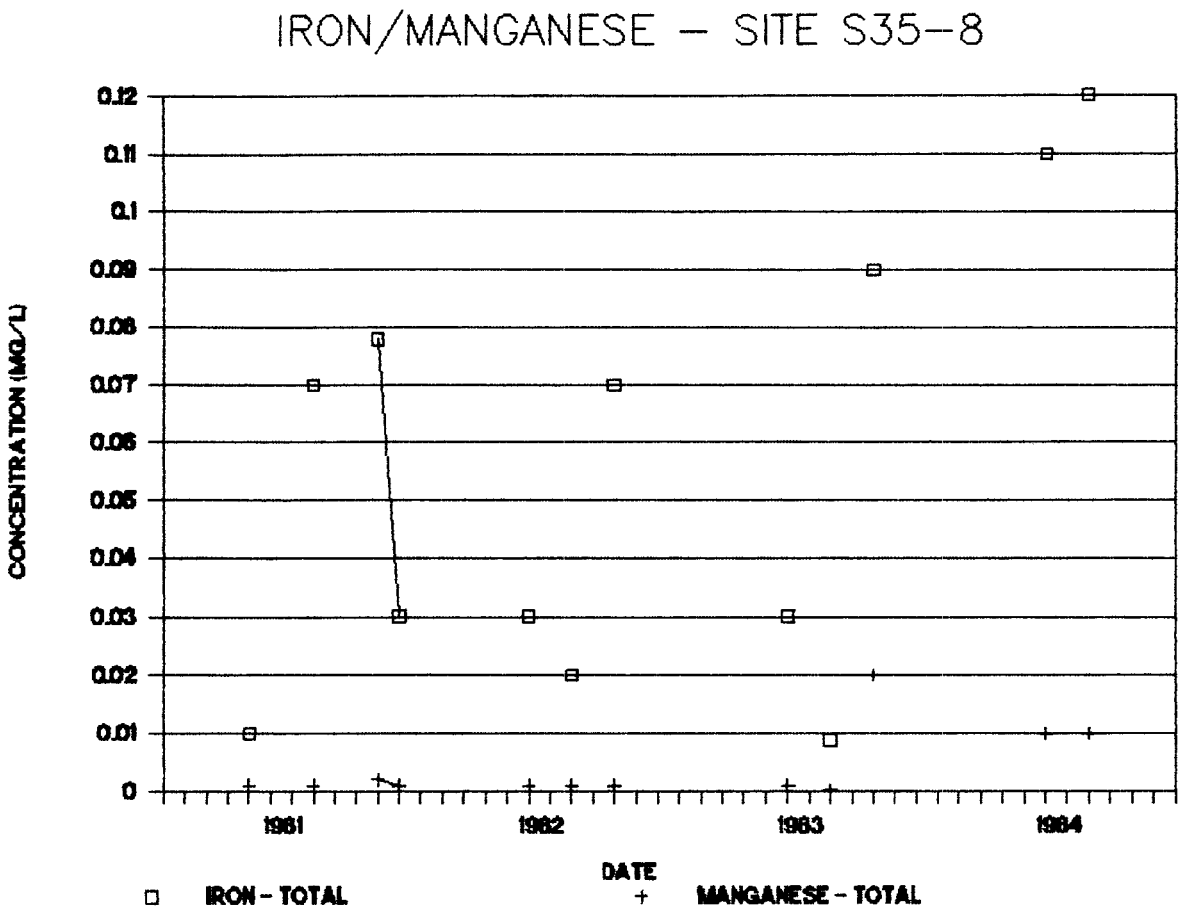
SOLIDS – SITE S35–8

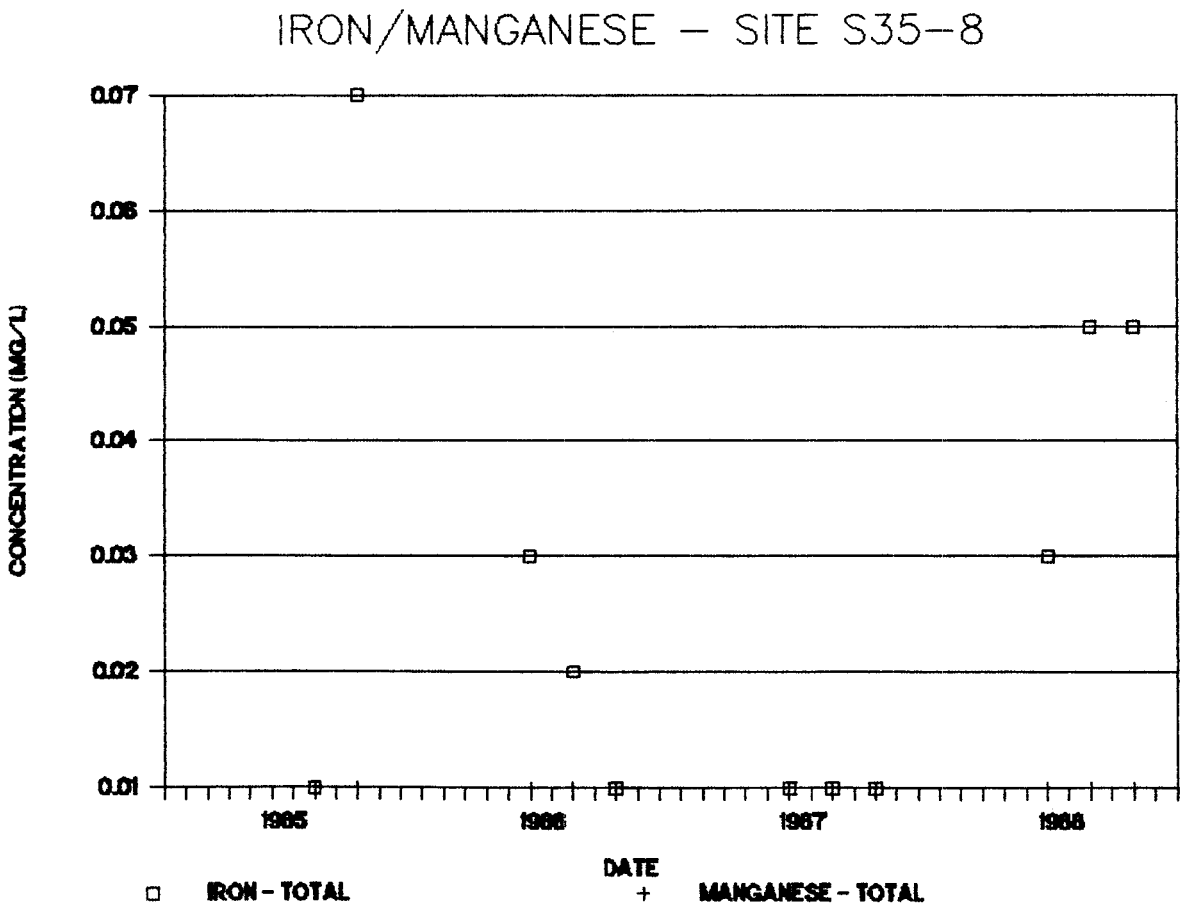


SOLIDS – SITE S35–8



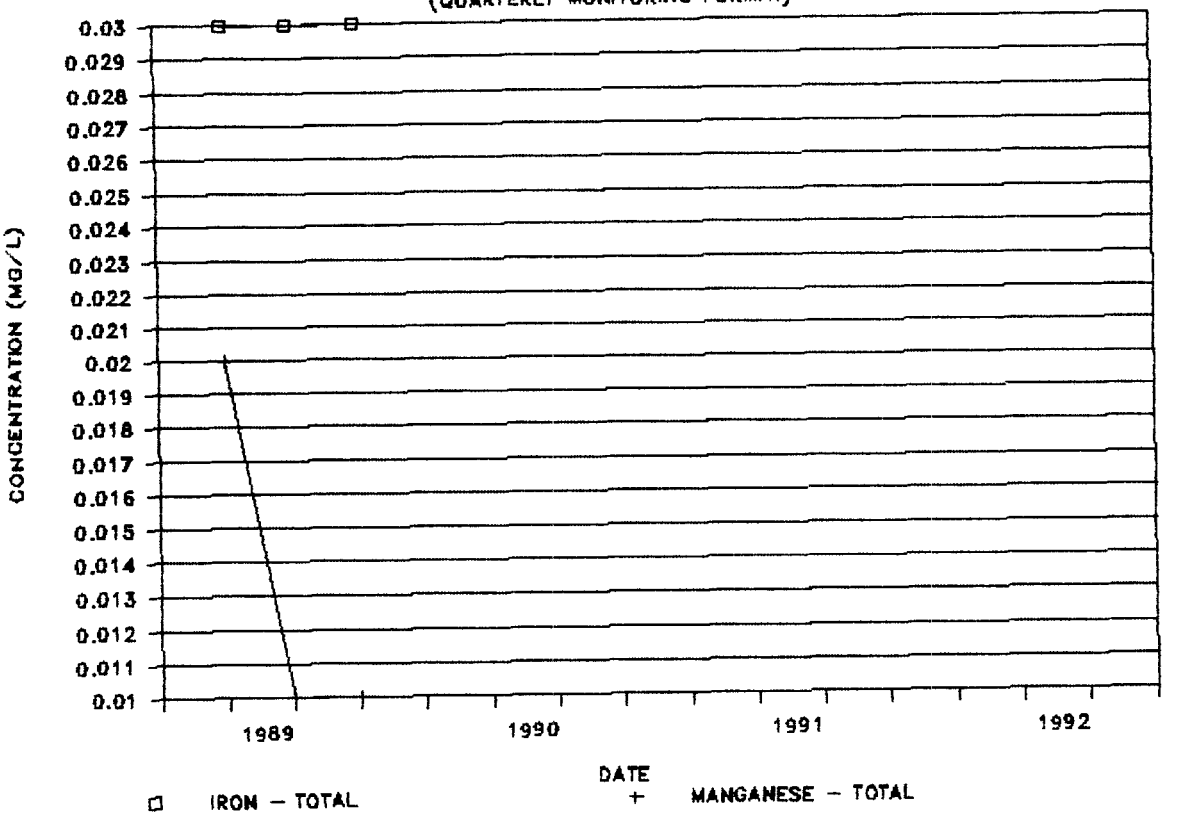

SOLIDS - SITE S35-8
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
260
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS


IRON/MANGANESE – SITE S35–8
CONCENTRATION (MG/L)
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
1981
1982
1983
1984
DATE
IRON - TOTAL
MANGANESE - TOTAL

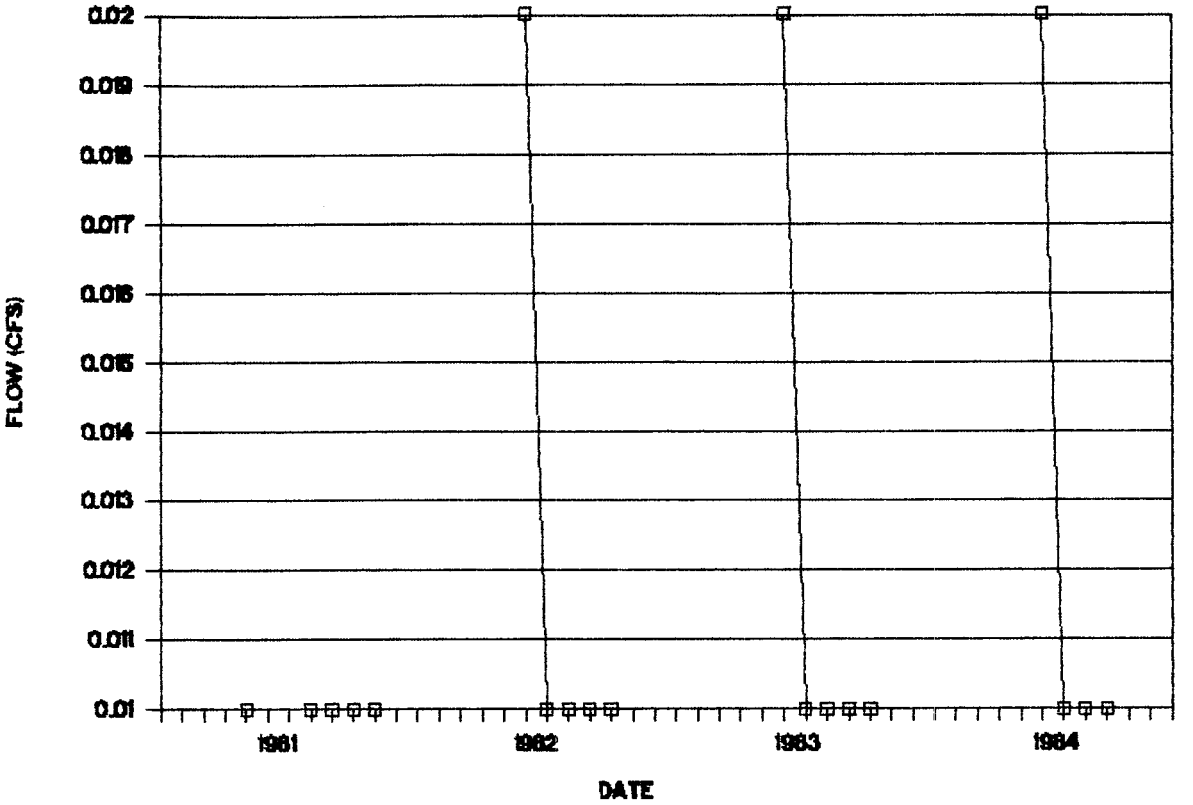

IRON/MANGANESE – SITE S35–8
CONCENTRATION (MG/L)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
1985
1986
1987
1988
DATE
IRON - TOTAL
MANGANESE - TOTAL

IRON/MANGANESE – SITE S35-8

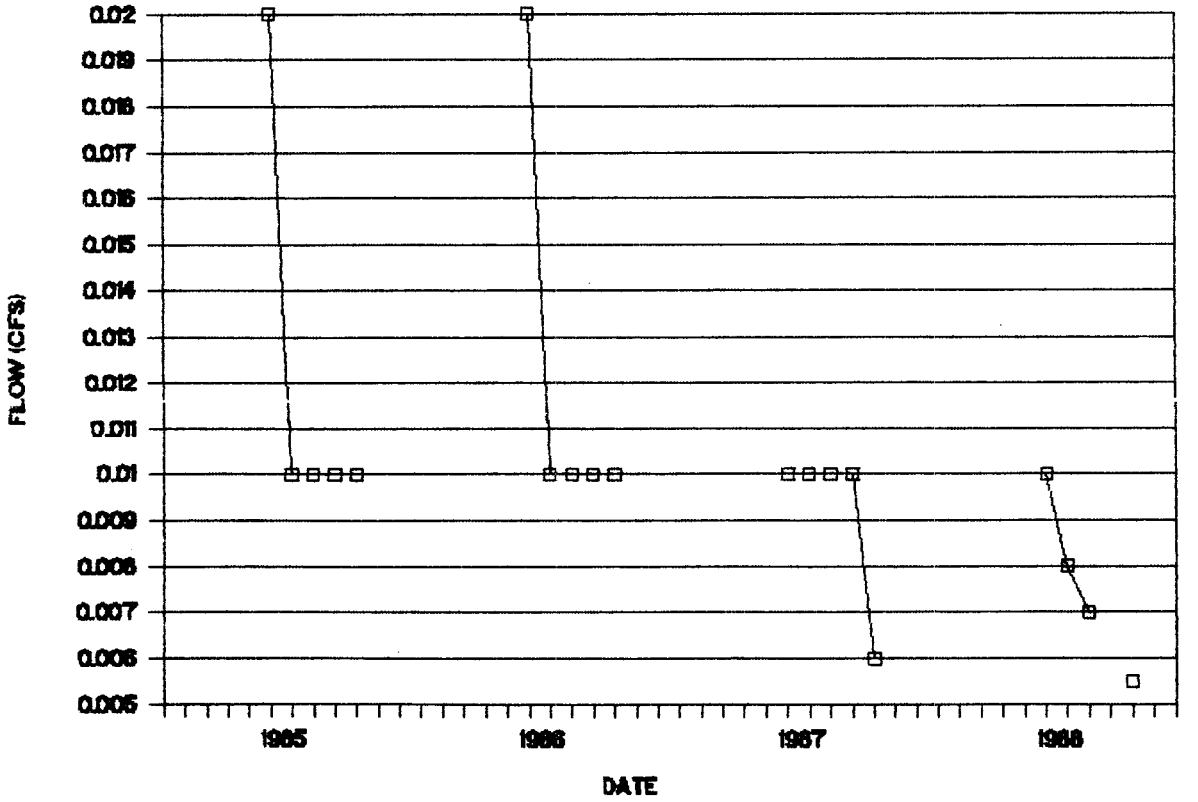
(QUARTERLY MONITORING FORMAT)

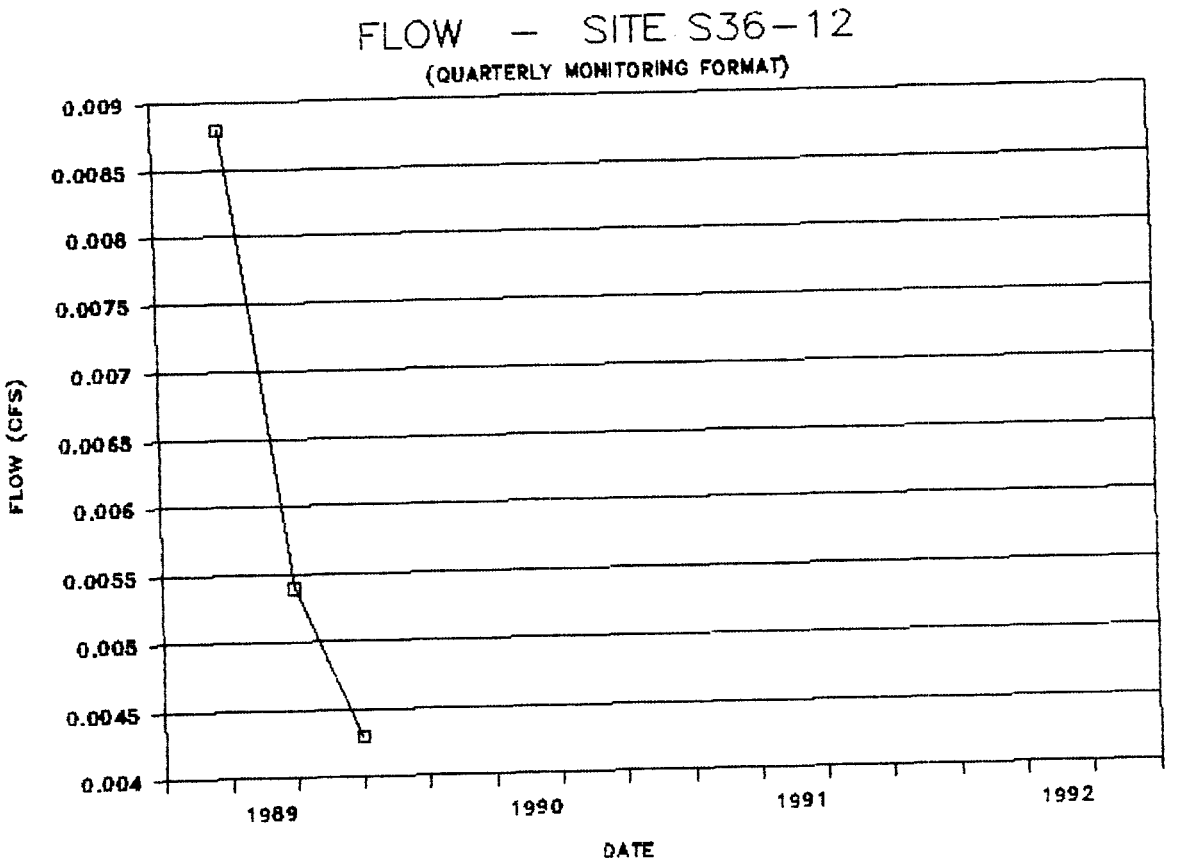


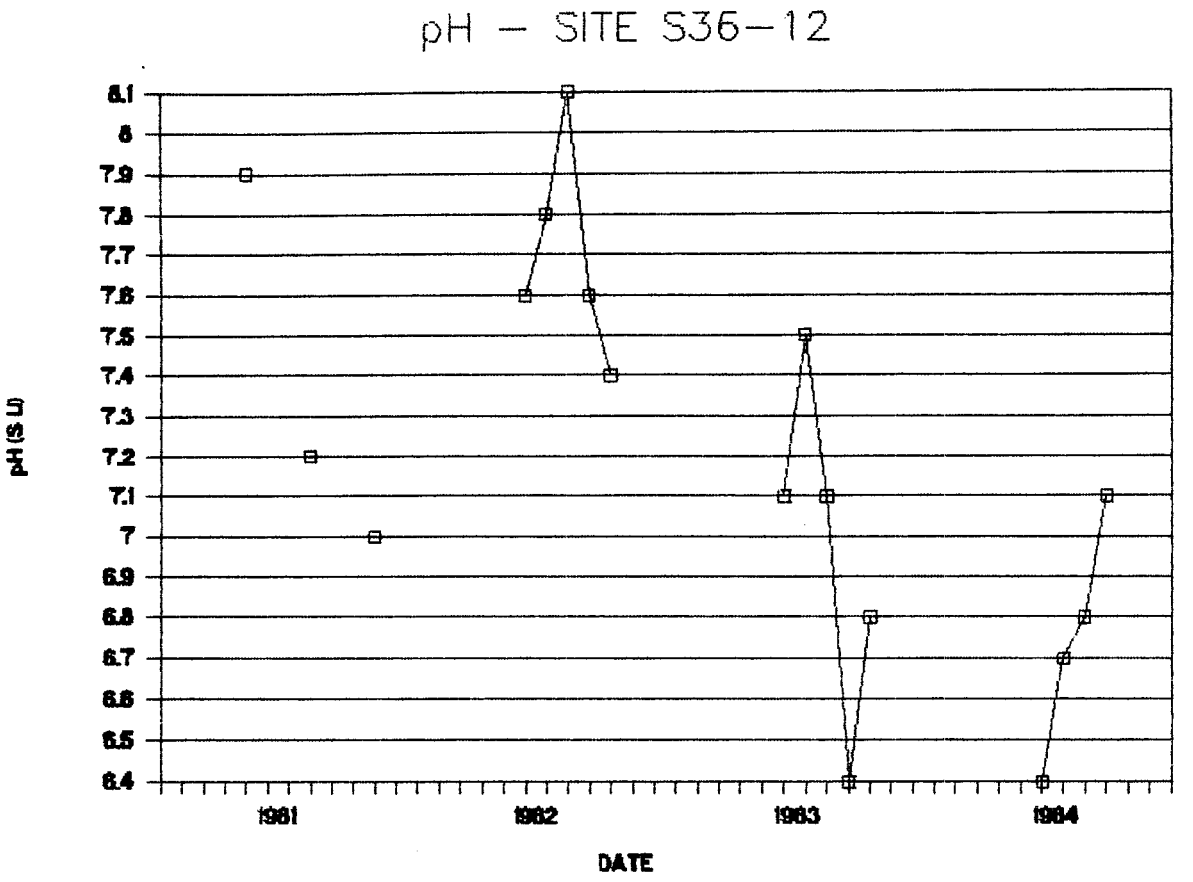
FLOW — SITE S36-12

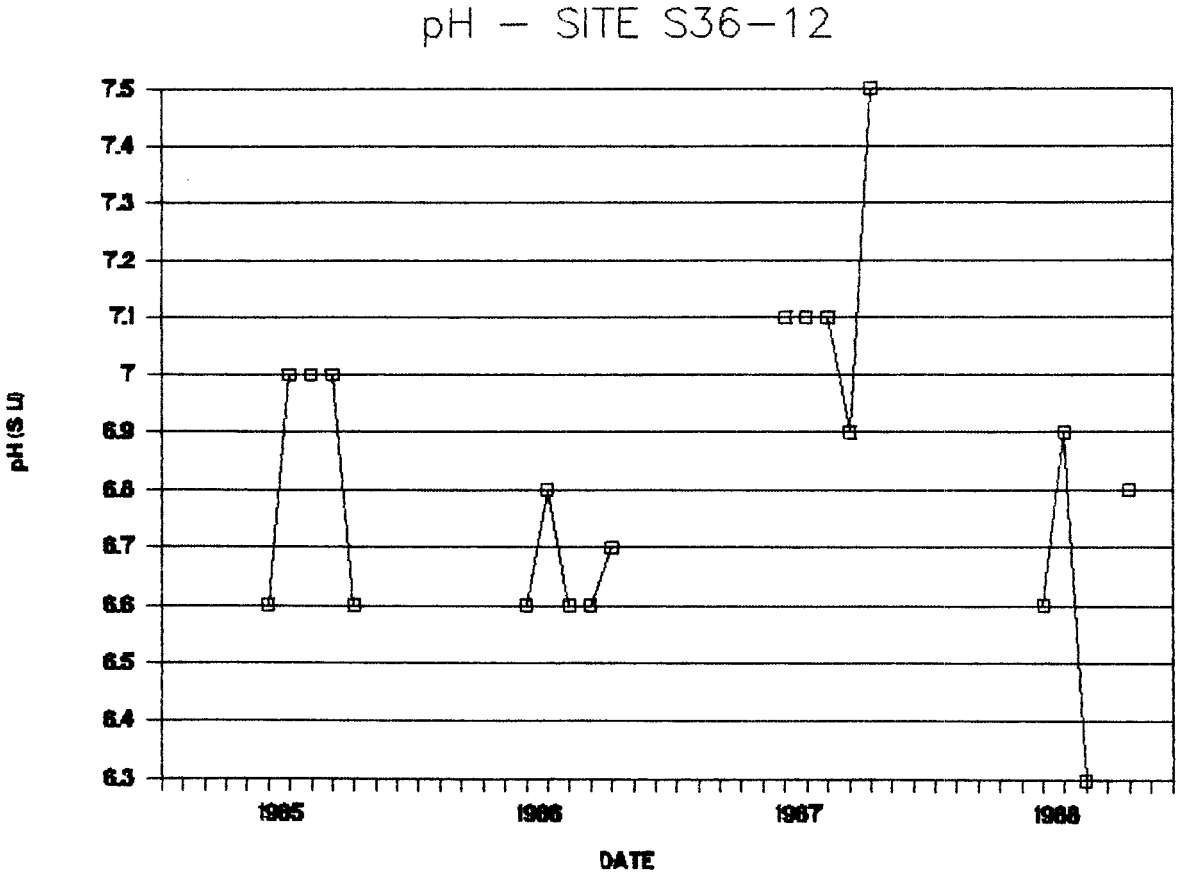


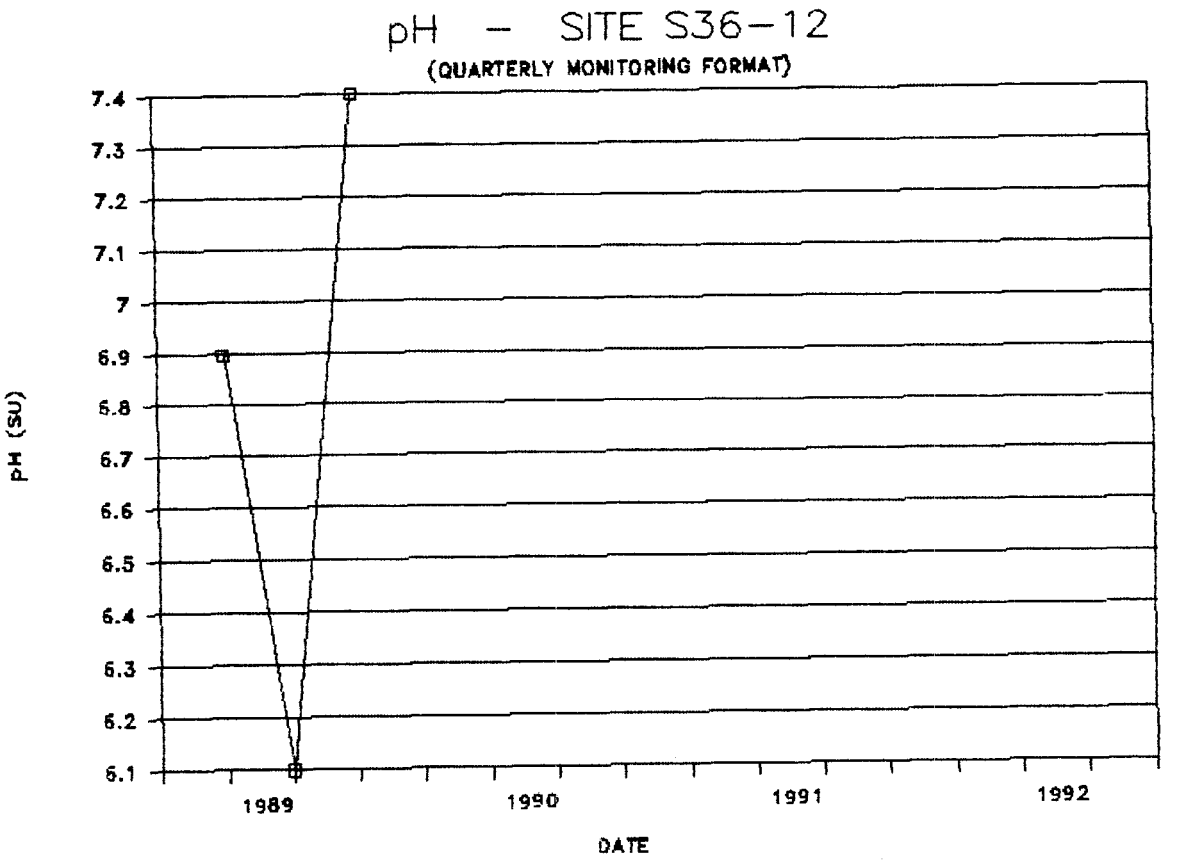
FLOW — SITE S36-12



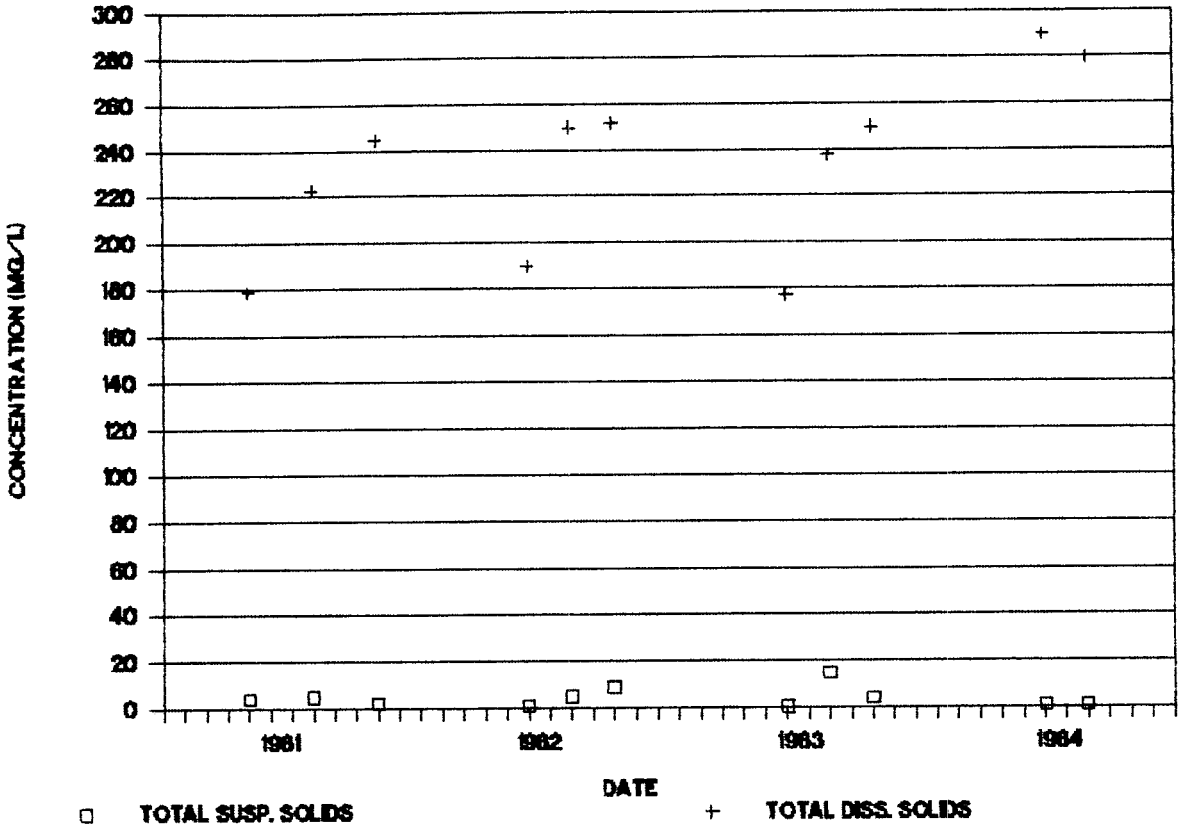

FLOW - SITE S36-12
(QUARTERLY MONITORING FORMAT)
FLOW (CFS)
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
1989
1990
1991
1992
DATE


pH – SITE S36–12
pH (S.U.)
8.1
8
7.9
7.8
7.7
7.6
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
1981
1982
1983
1984
DATE

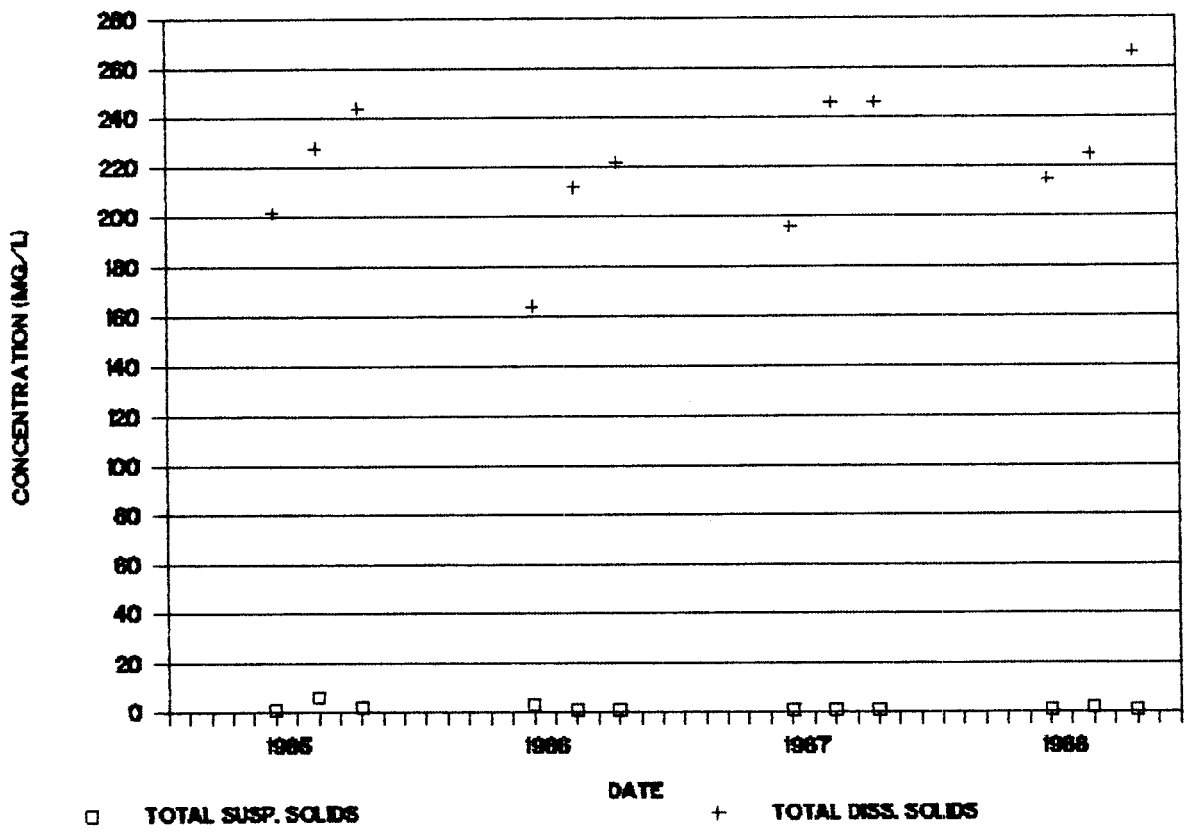

pH – SITE S36–12
pH (S.U.)
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
6.3
1985
1986
1987
1988
DATE

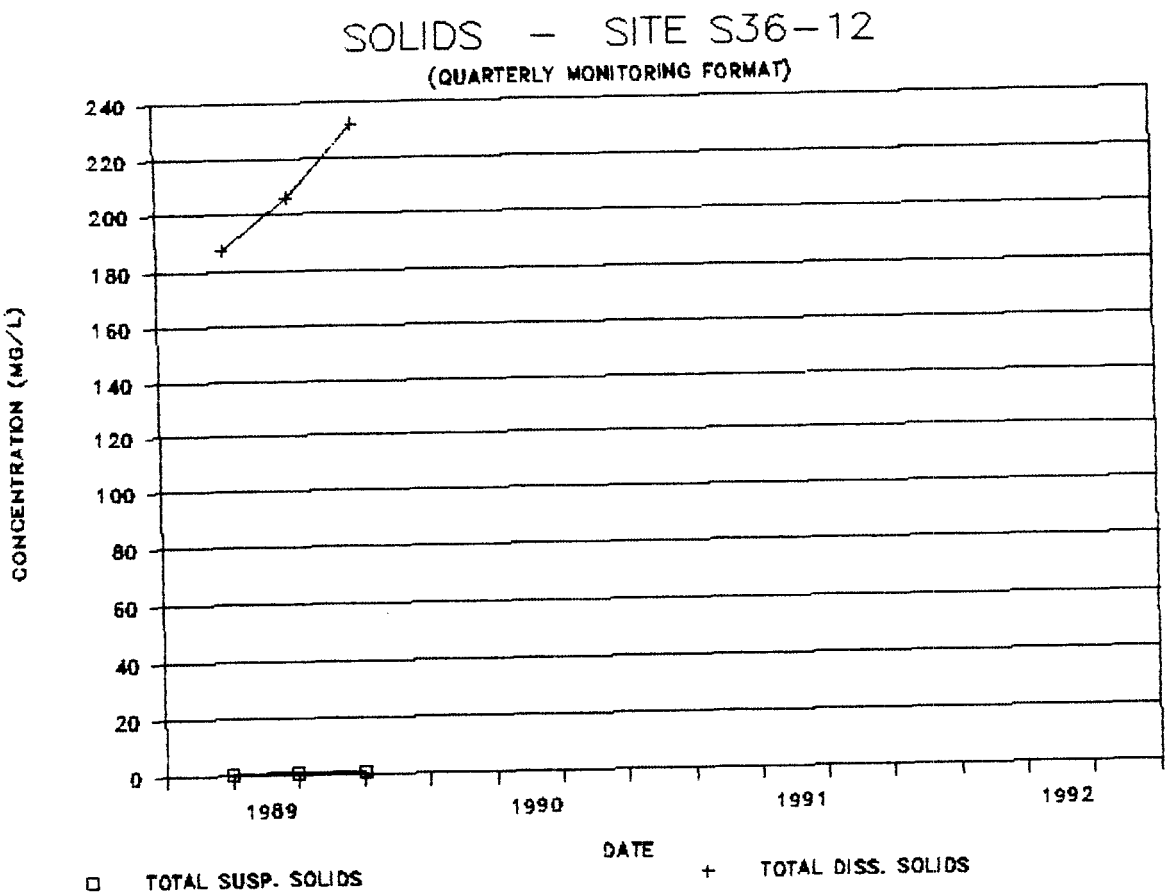

pH - SITE S36-12
(QUARTERLY MONITORING FORMAT)
7.4
7.3
7.2
7.1
7
6.9
6.8
6.7
6.6
6.5
6.4
6.3
6.2
6.1
pH (SU)
1989
1990
1991
1992
DATE

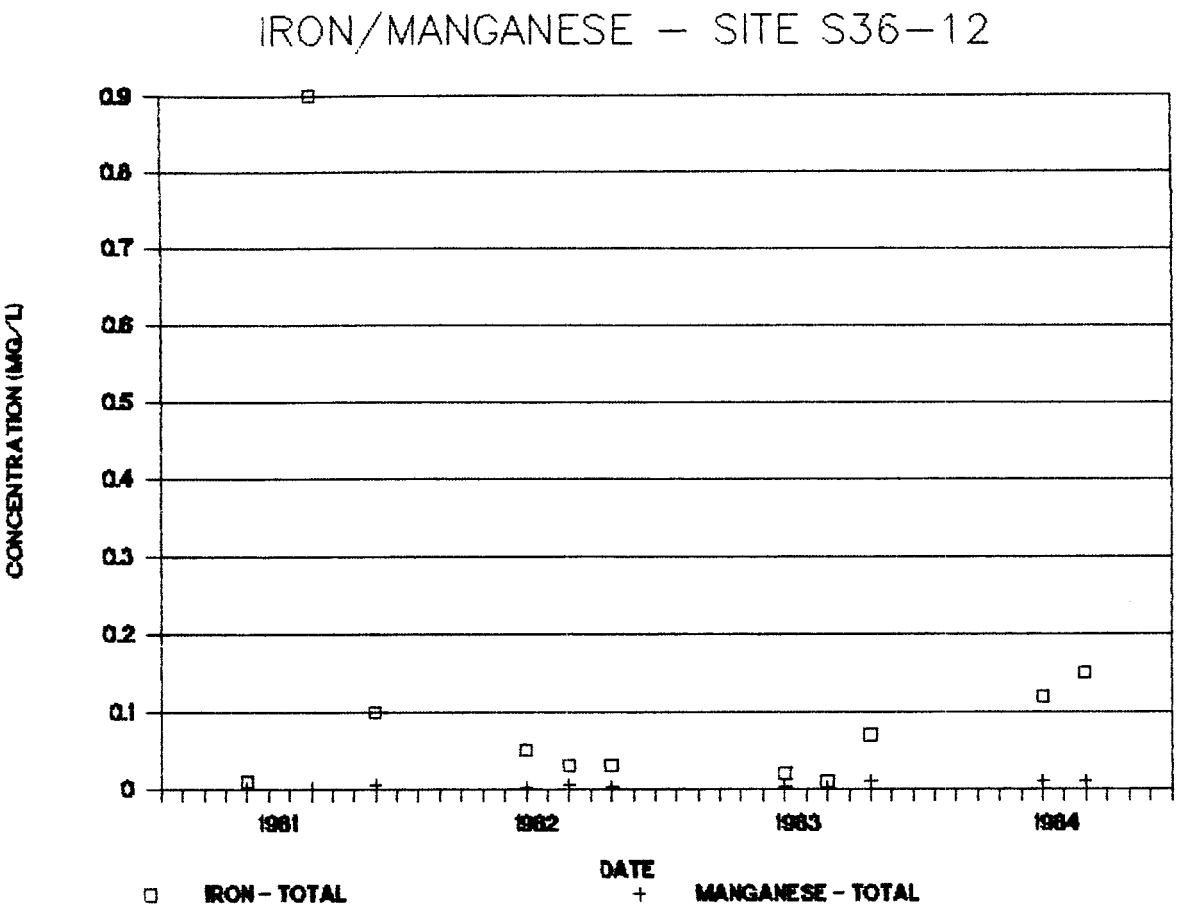
SOLIDS – SITE S36–12

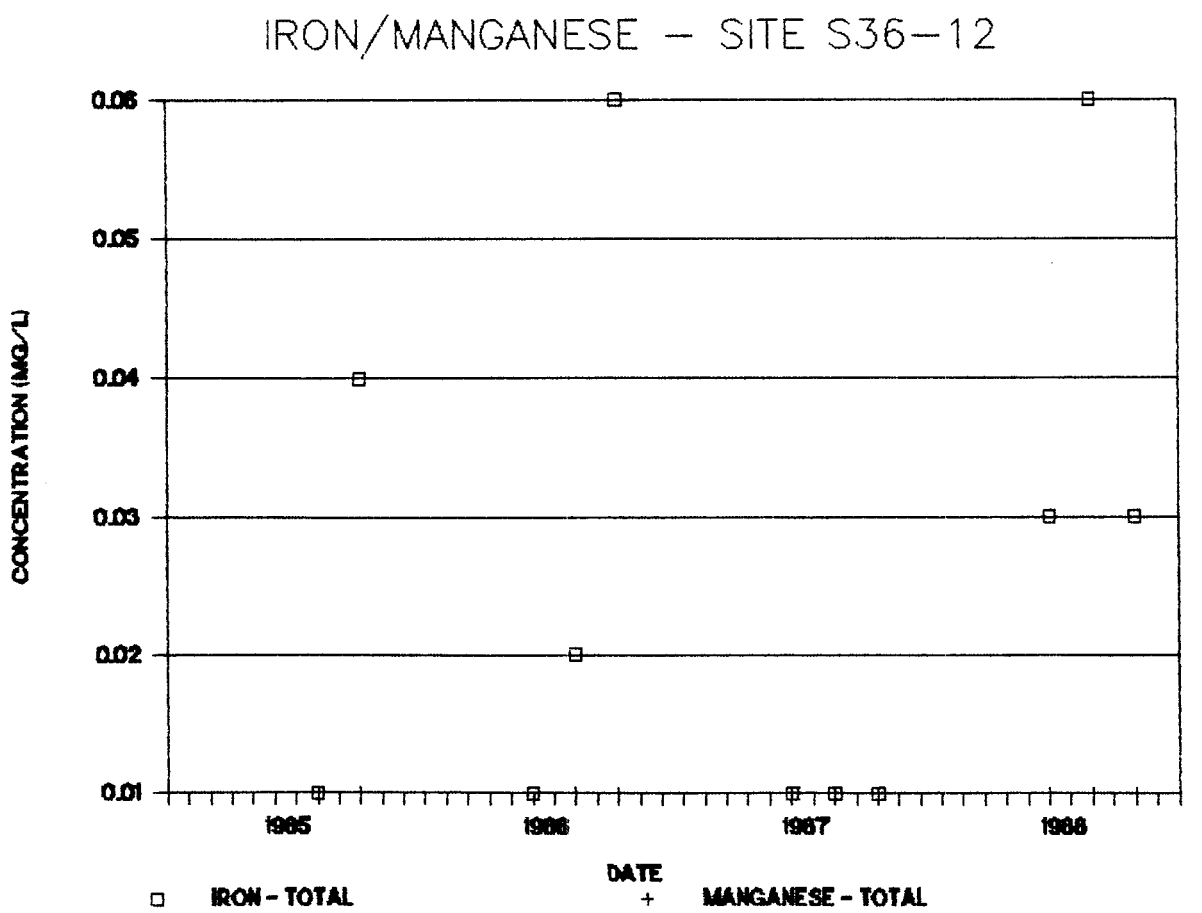


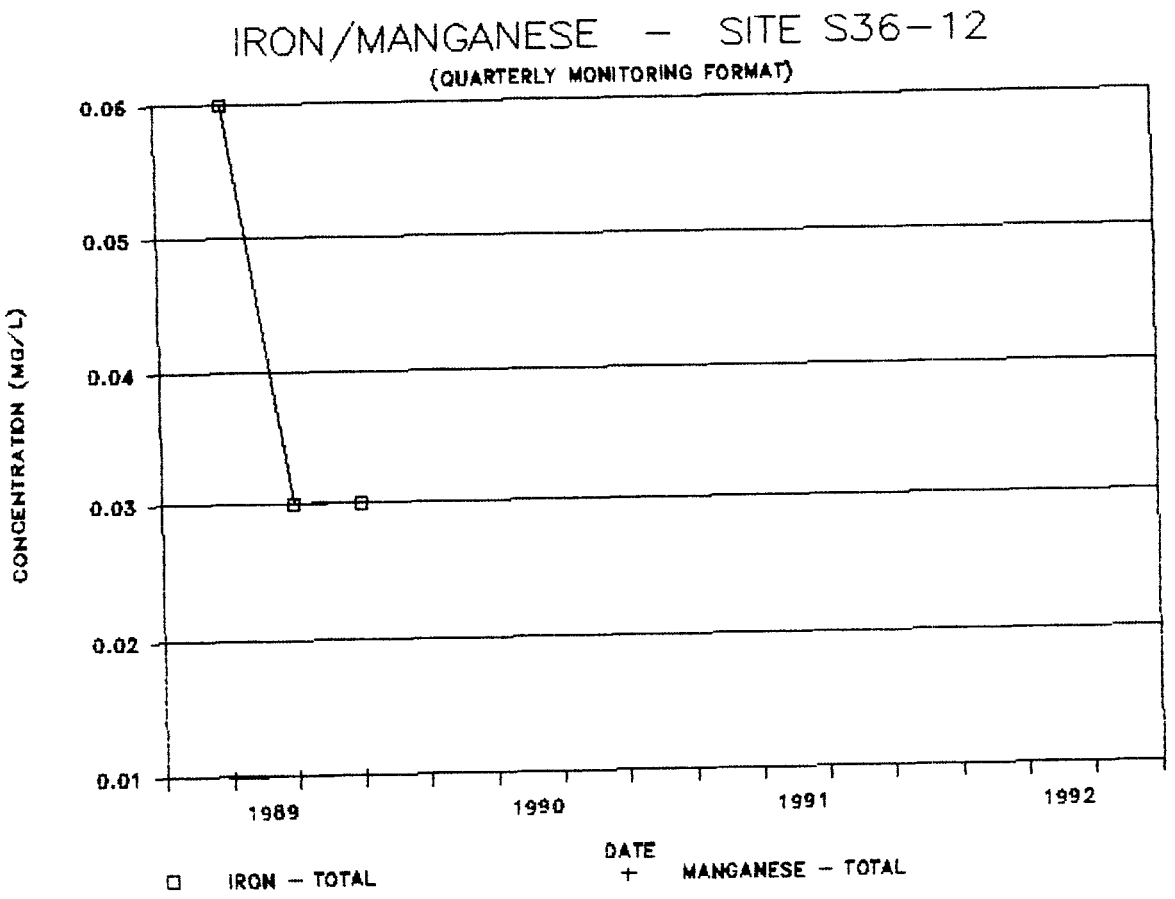
SOLIDS – SITE S36–12




SOLIDS - SITE S36-12
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
240
220
200
180
160
140
120
100
80
60
40
20
0
1989
1990
1991
1992
DATE
TOTAL SUSP. SOLIDS
TOTAL DISS. SOLIDS

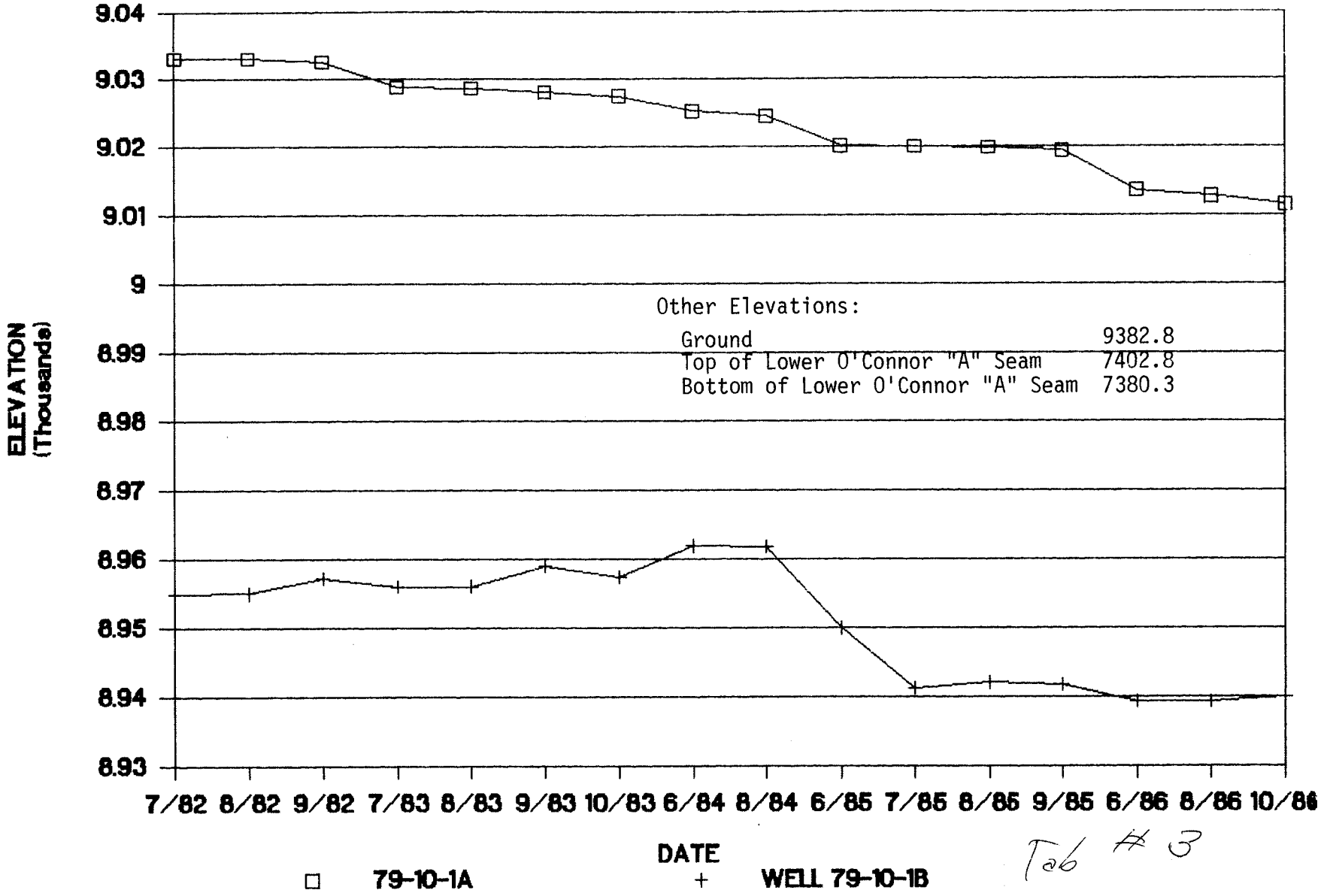

IRON/MANGANESE – SITE S36–12
CONCENTRATION (MG/L)
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
1981
1982
1983
1984
DATE
IRON – TOTAL
MANGANESE – TOTAL


IRON/MANGANESE – SITE S36–12
CONCENTRATION (MG/L)
0.06
0.05
0.04
0.03
0.02
0.01
1985
1986
1987
1988
DATE
IRON – TOTAL
MANGANESE – TOTAL


IRON/MANGANESE - SITE S36-12
(QUARTERLY MONITORING FORMAT)
CONCENTRATION (MG/L)
0.06
0.05
0.04
0.03
0.02
0.01
1989
1990
1991
1992
DATE
IRON - TOTAL
MANGANESE - TOTAL

WELL WATER LEVEL, 1982 – 1986

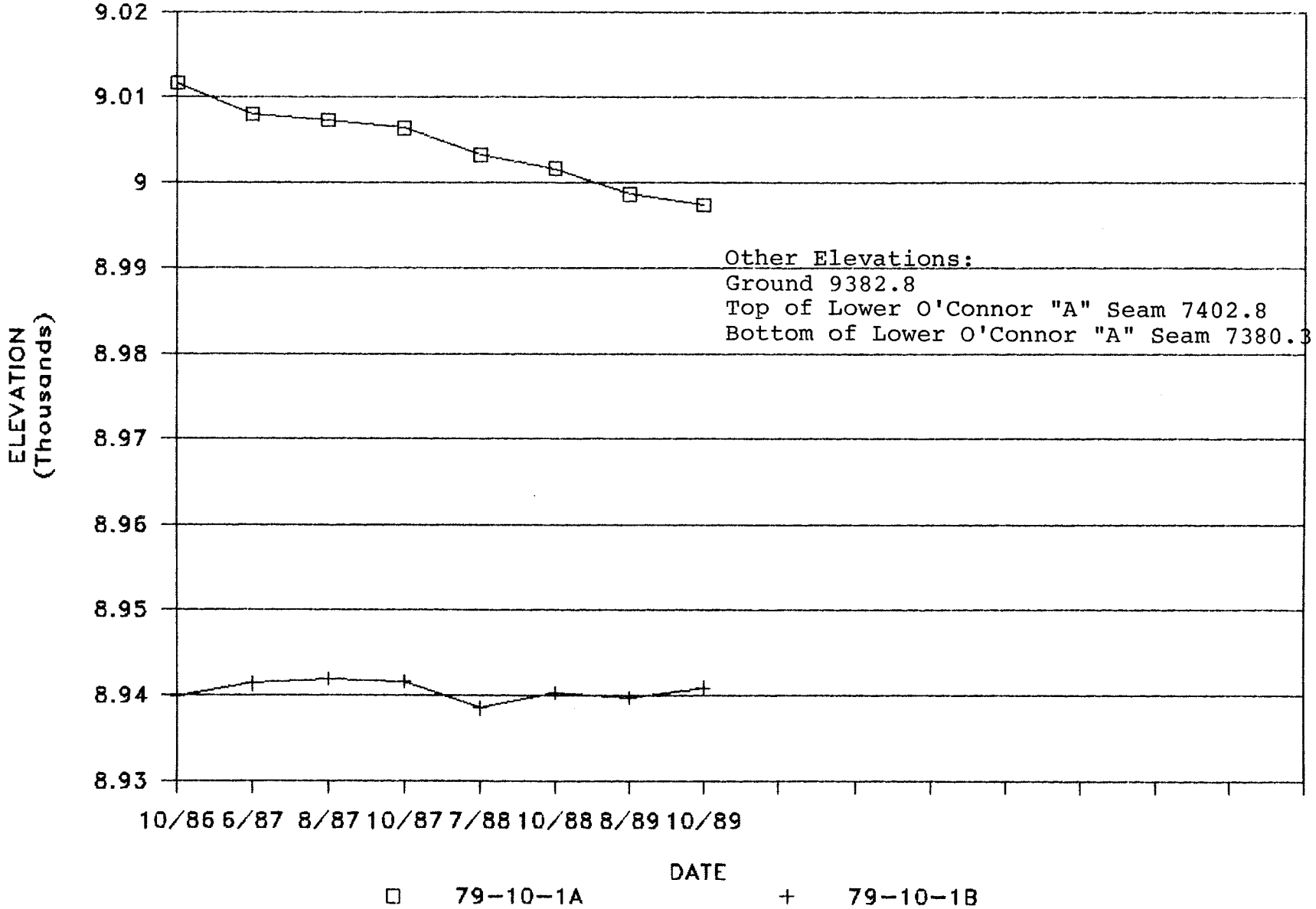
Wells 79-10-1A and 79-10-1B



Tab # 3

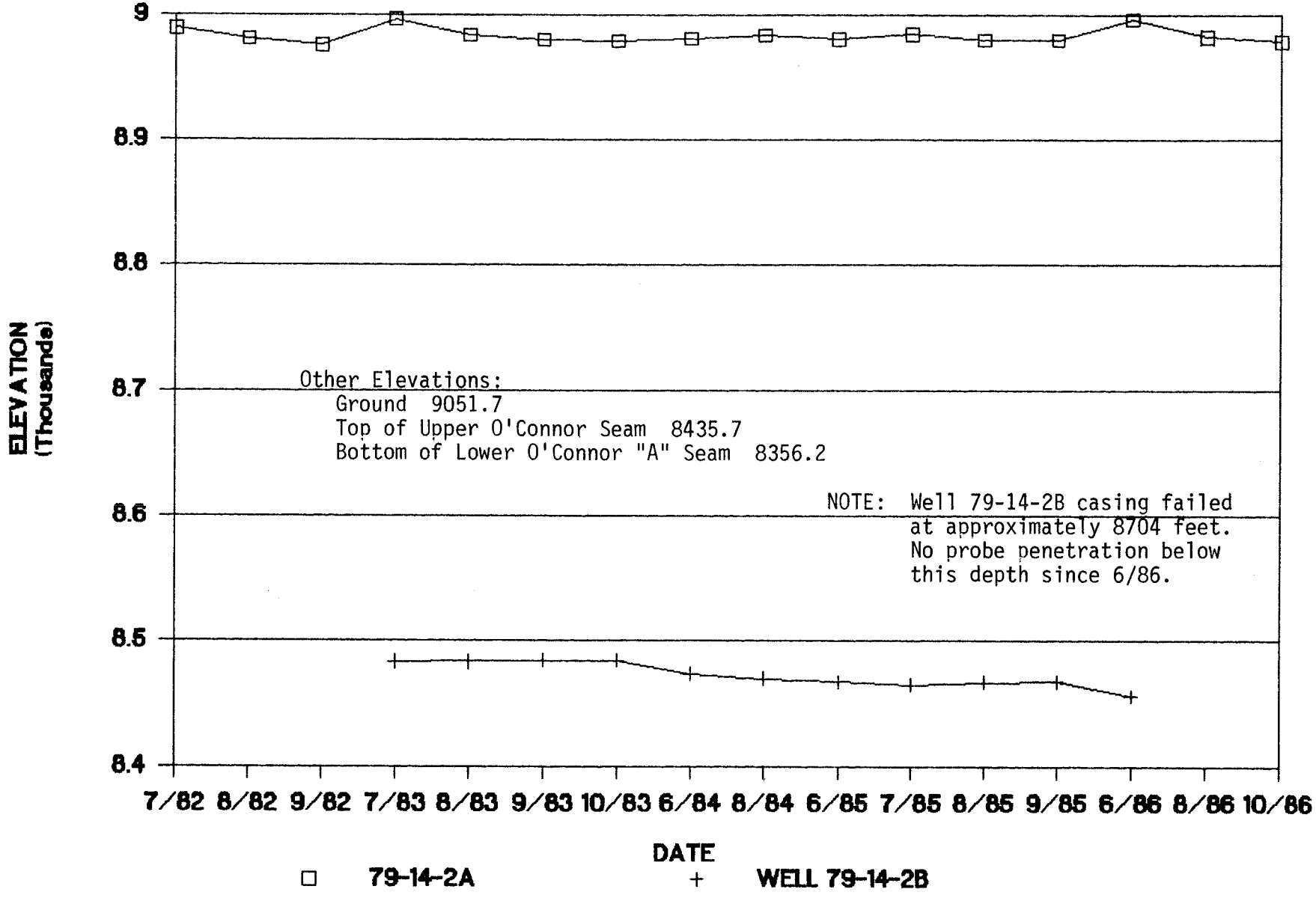
WELL WATER LEVEL, 1987 –

Wells 79-10-1A AND 79-10-1B



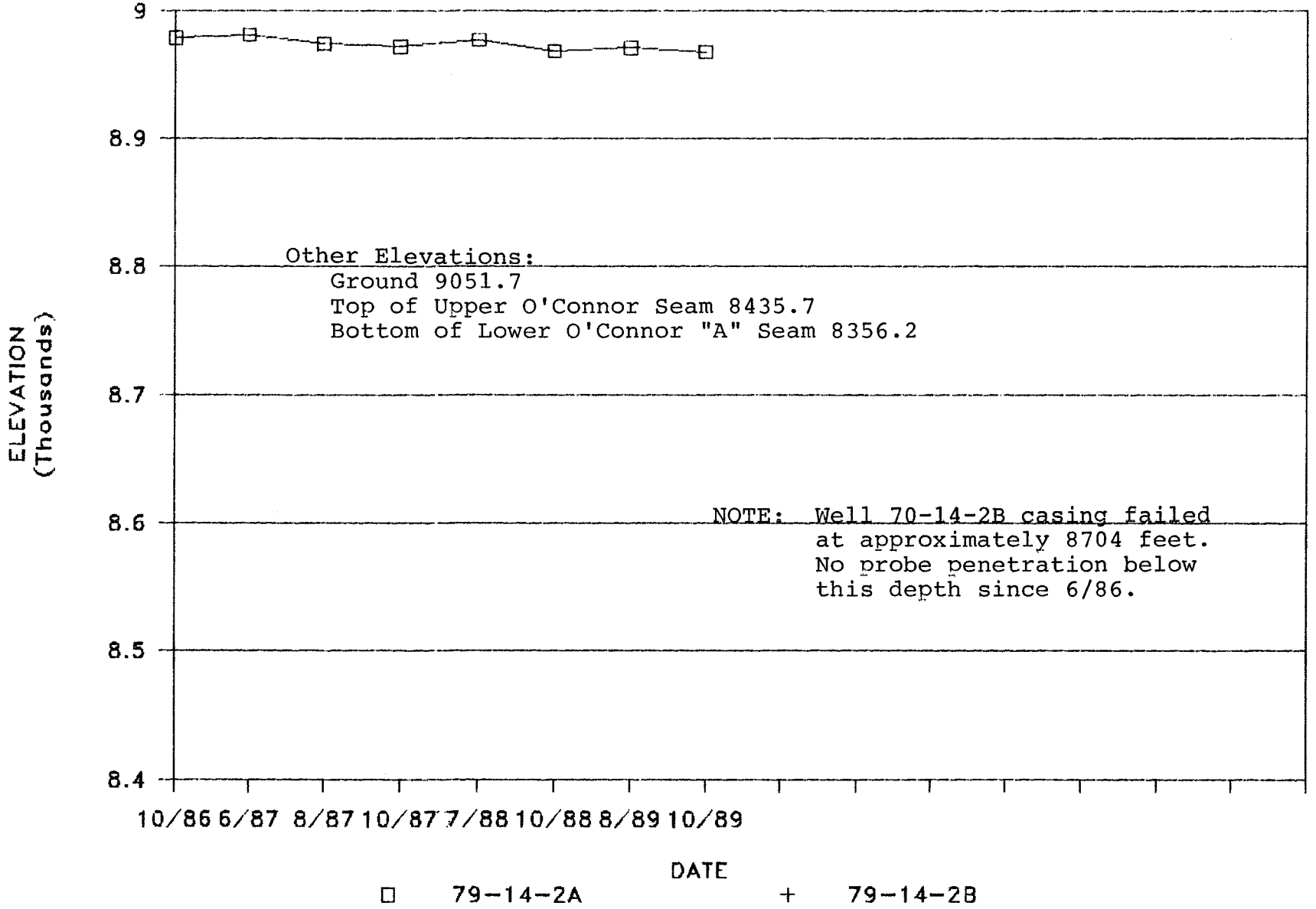
WELL WATER LEVEL, 1982 – 1986

Wells 79-14-2A and 79-14-2B



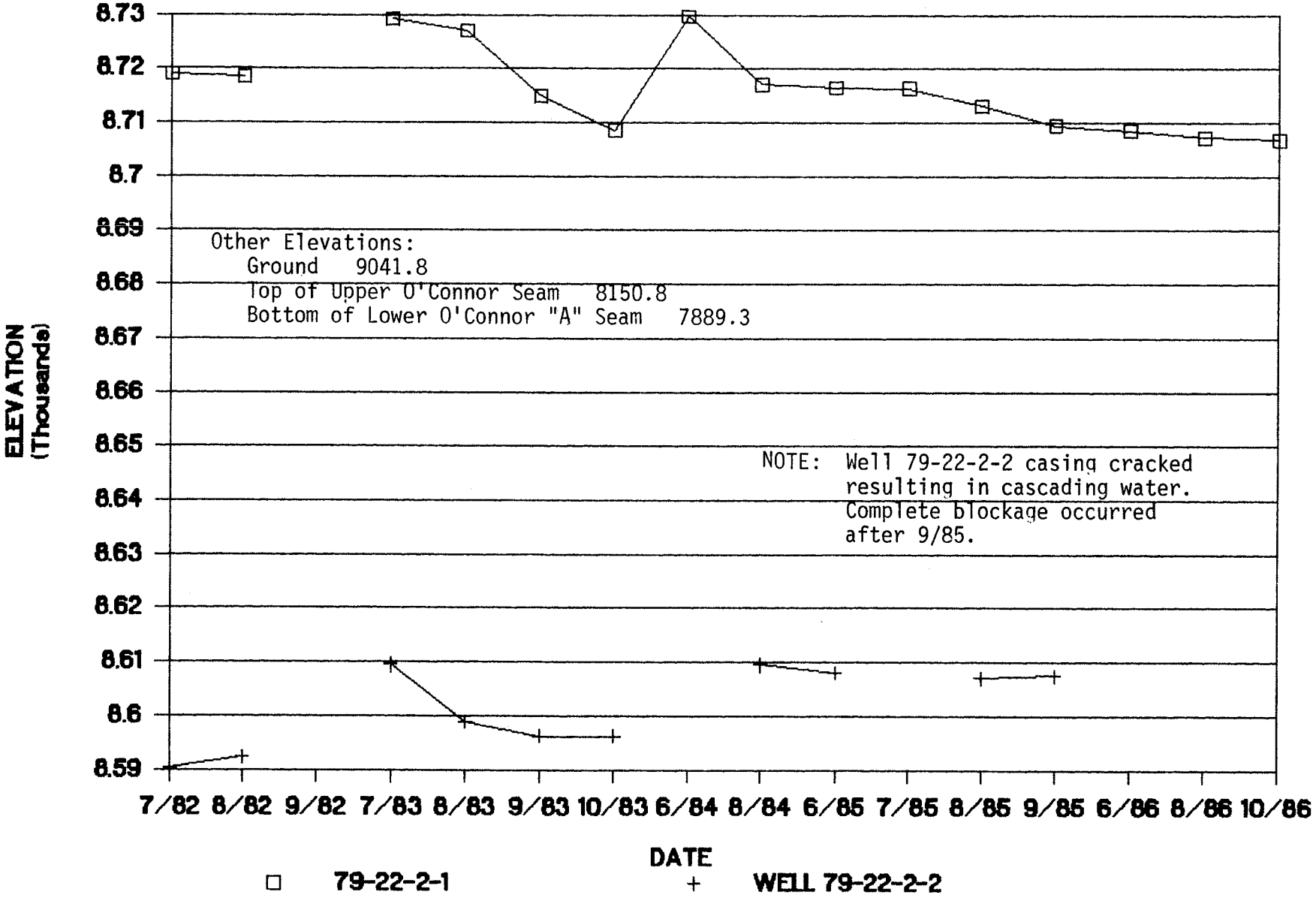
WELL WATER LEVEL, 1987 –

Wells 9-14-2A AND 79-14-2B



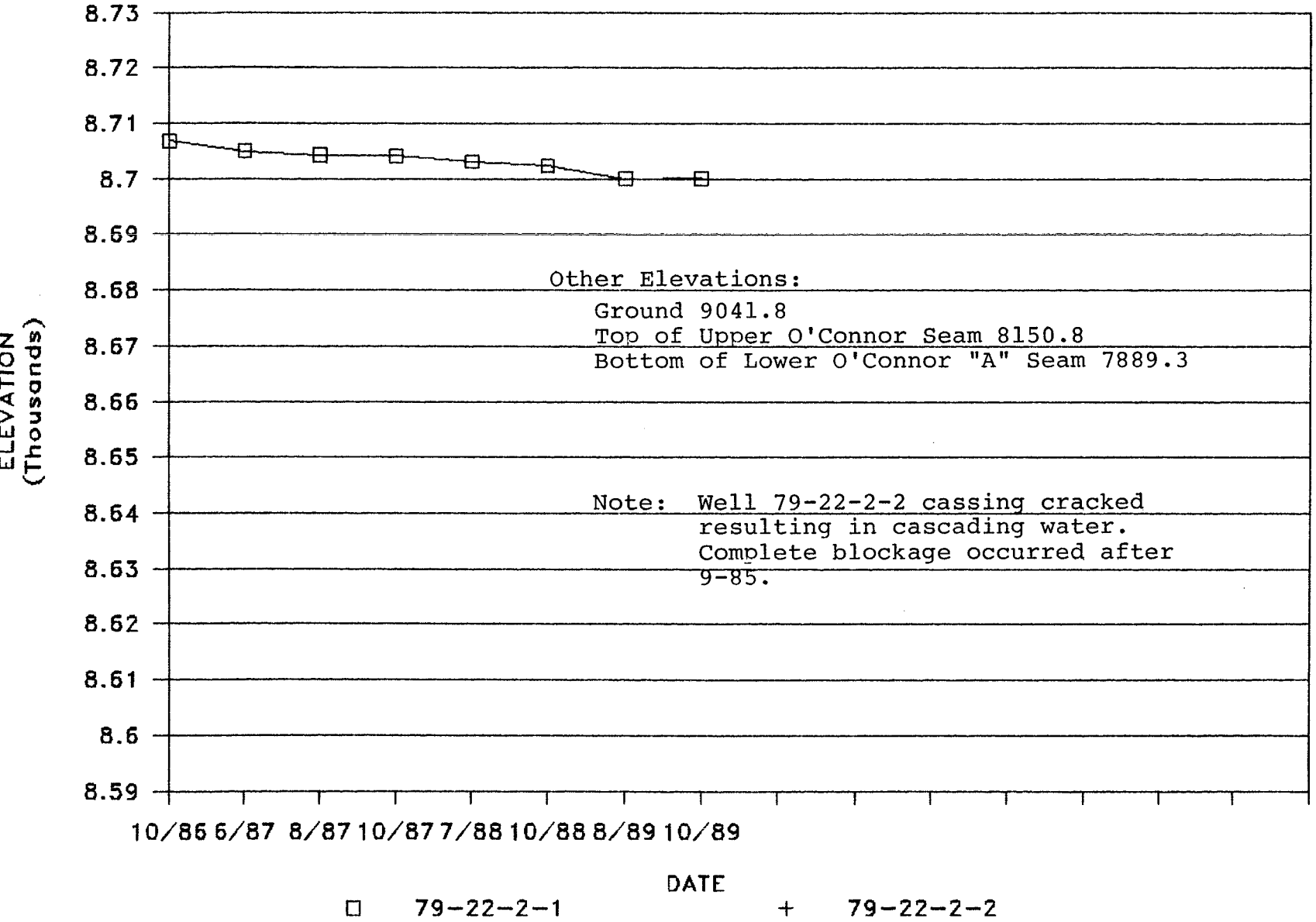
WELL WATER LEVEL, 1982 – 1986

Wells 79-22-2-1 and 79-22-2-2

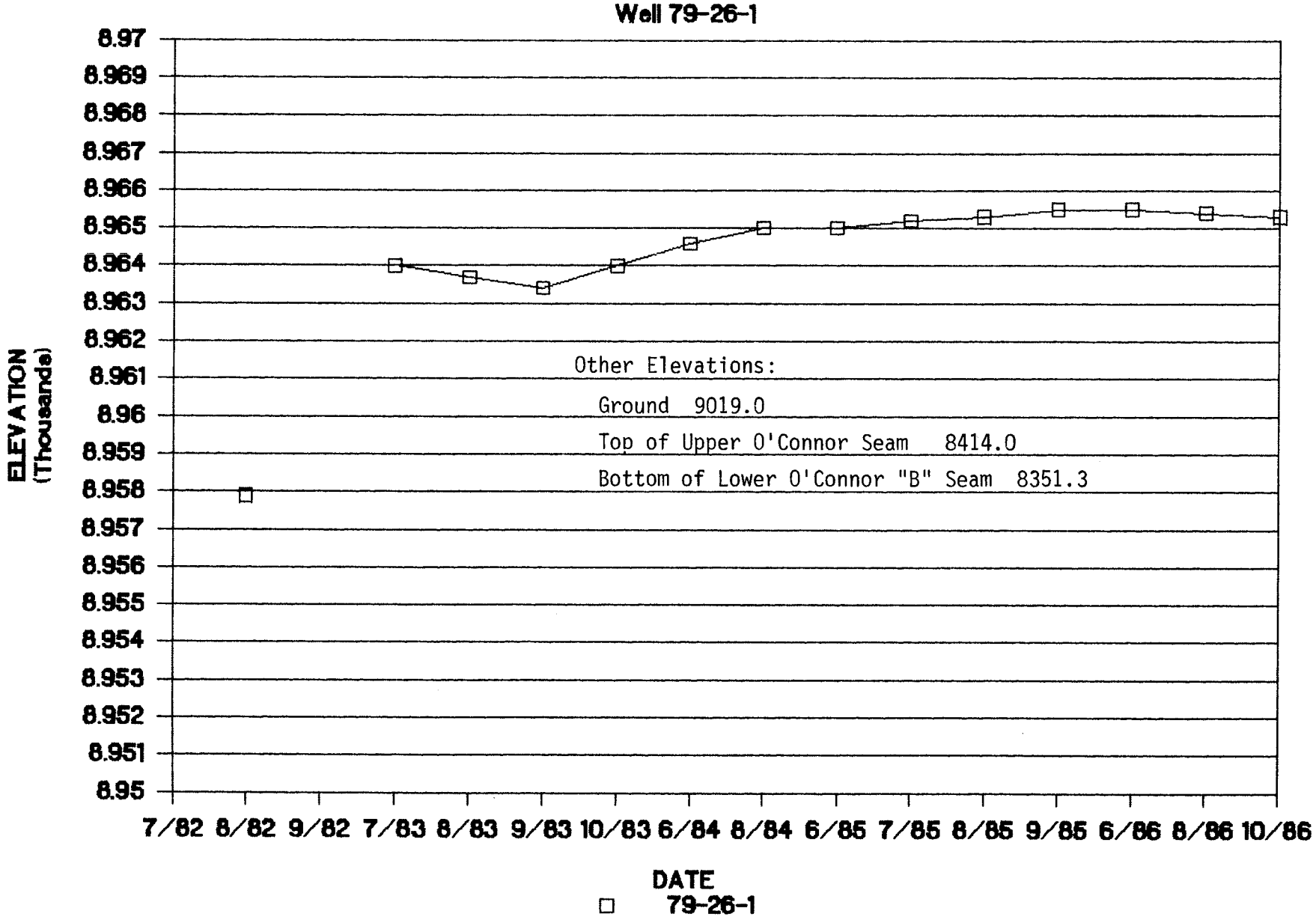


WELL WATER LEVEL, 1987 –

Wells 79-22-2-1 AND 79-22-2-2

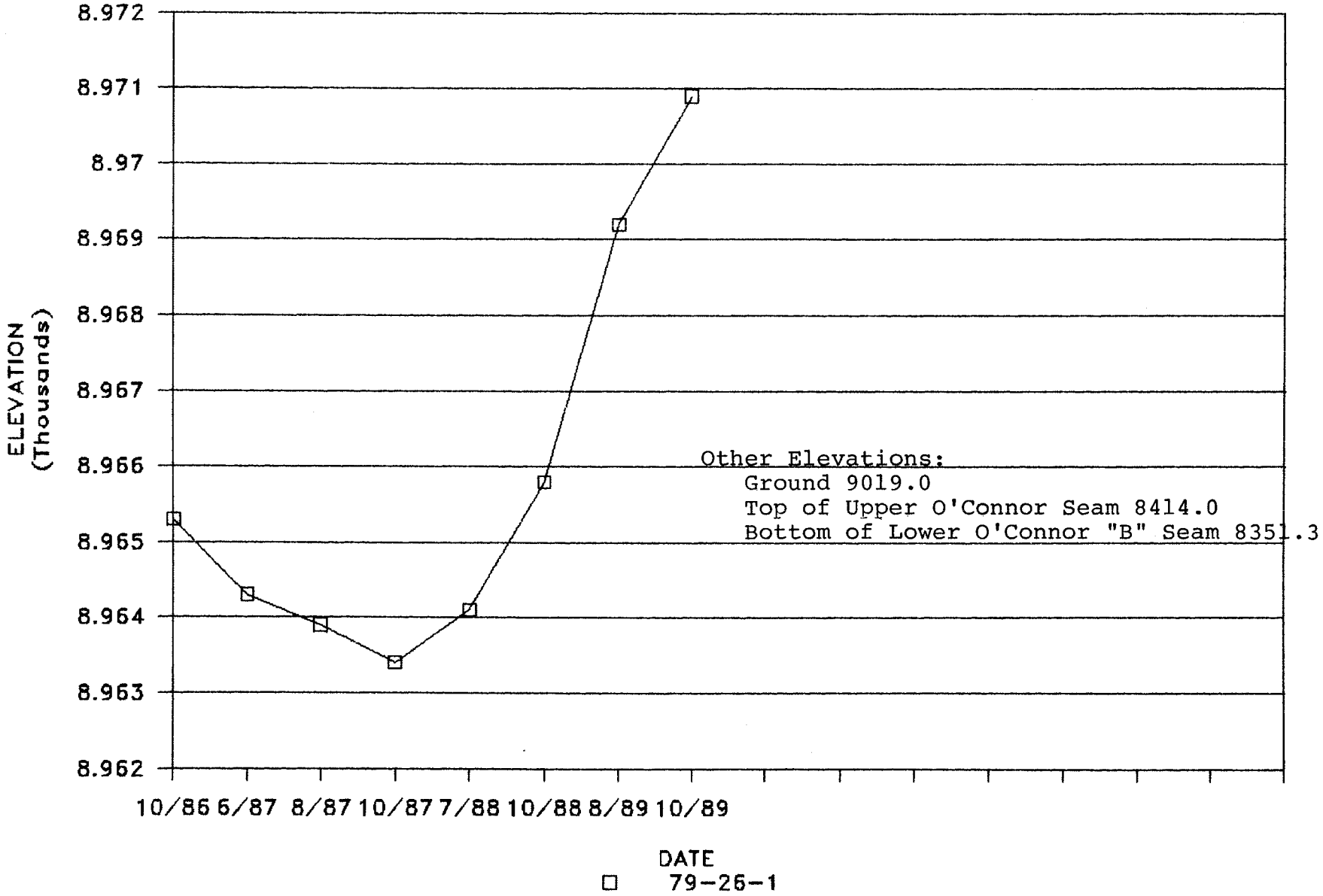


WELL WATER LEVEL, 1982 – 1986



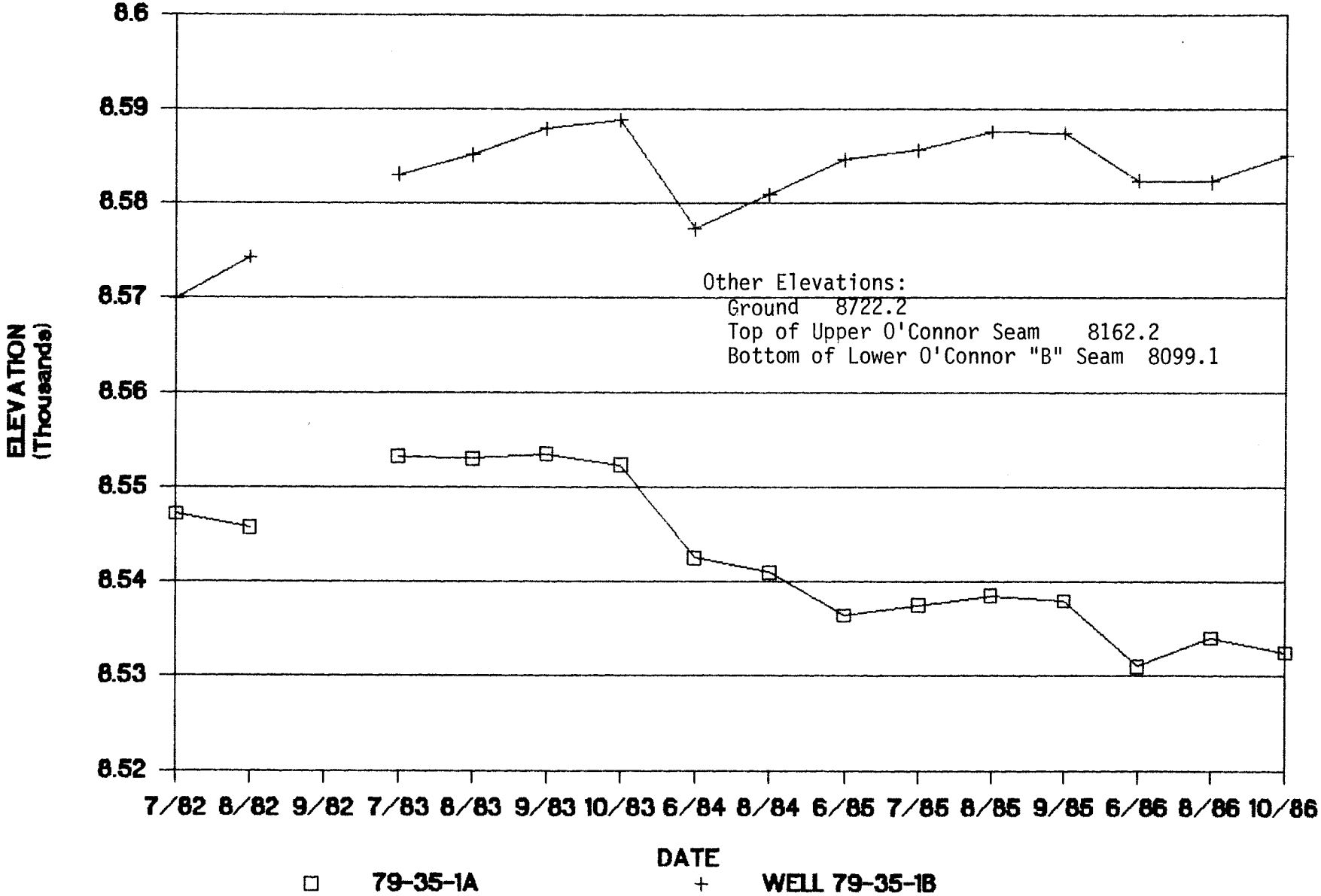
WELL WATER LEVEL, 1987 –

Well 79-26-1



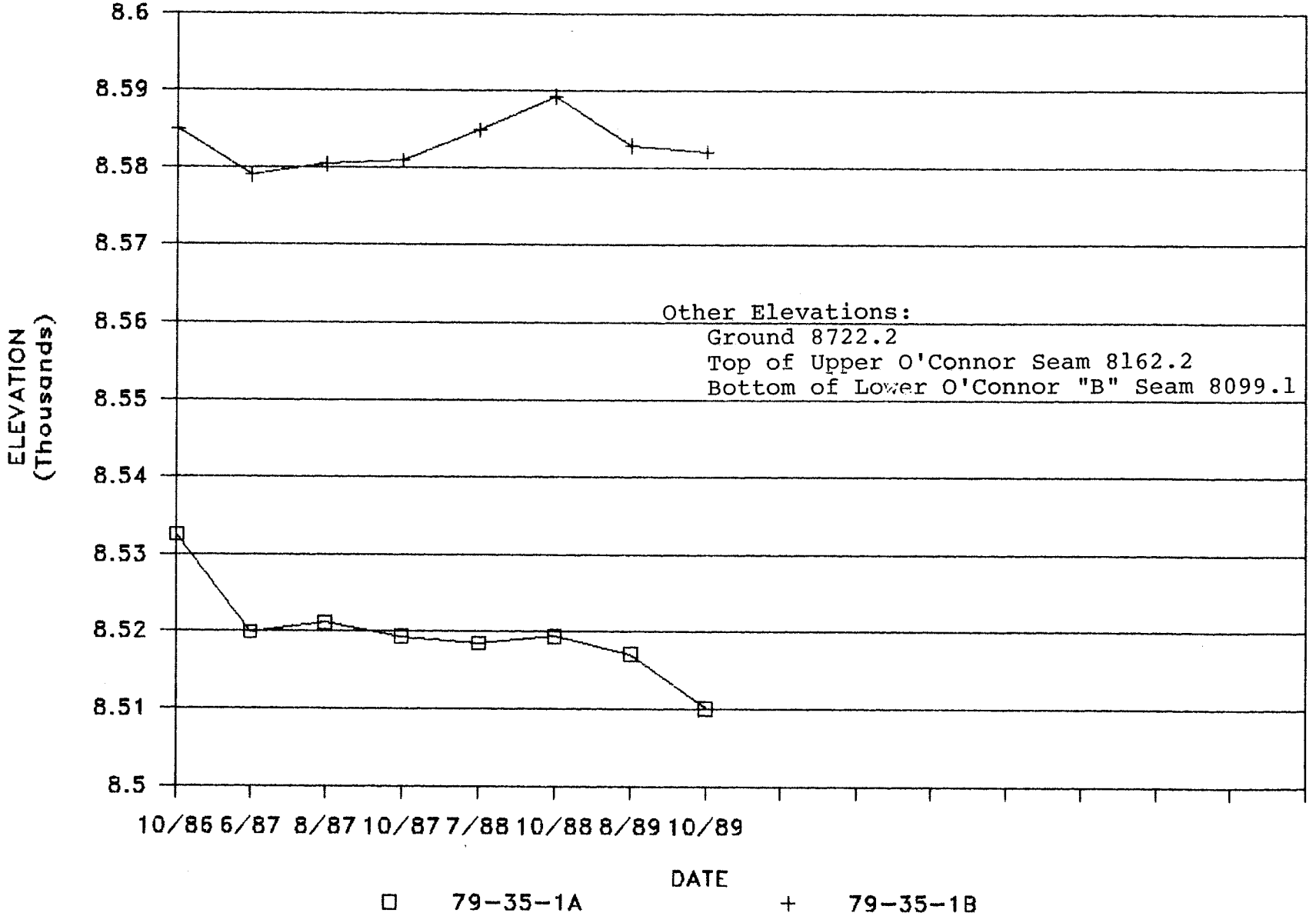
WELL WATER LEVEL, 1982 – 1986

Wells 79-35-1A and 79-35-1B



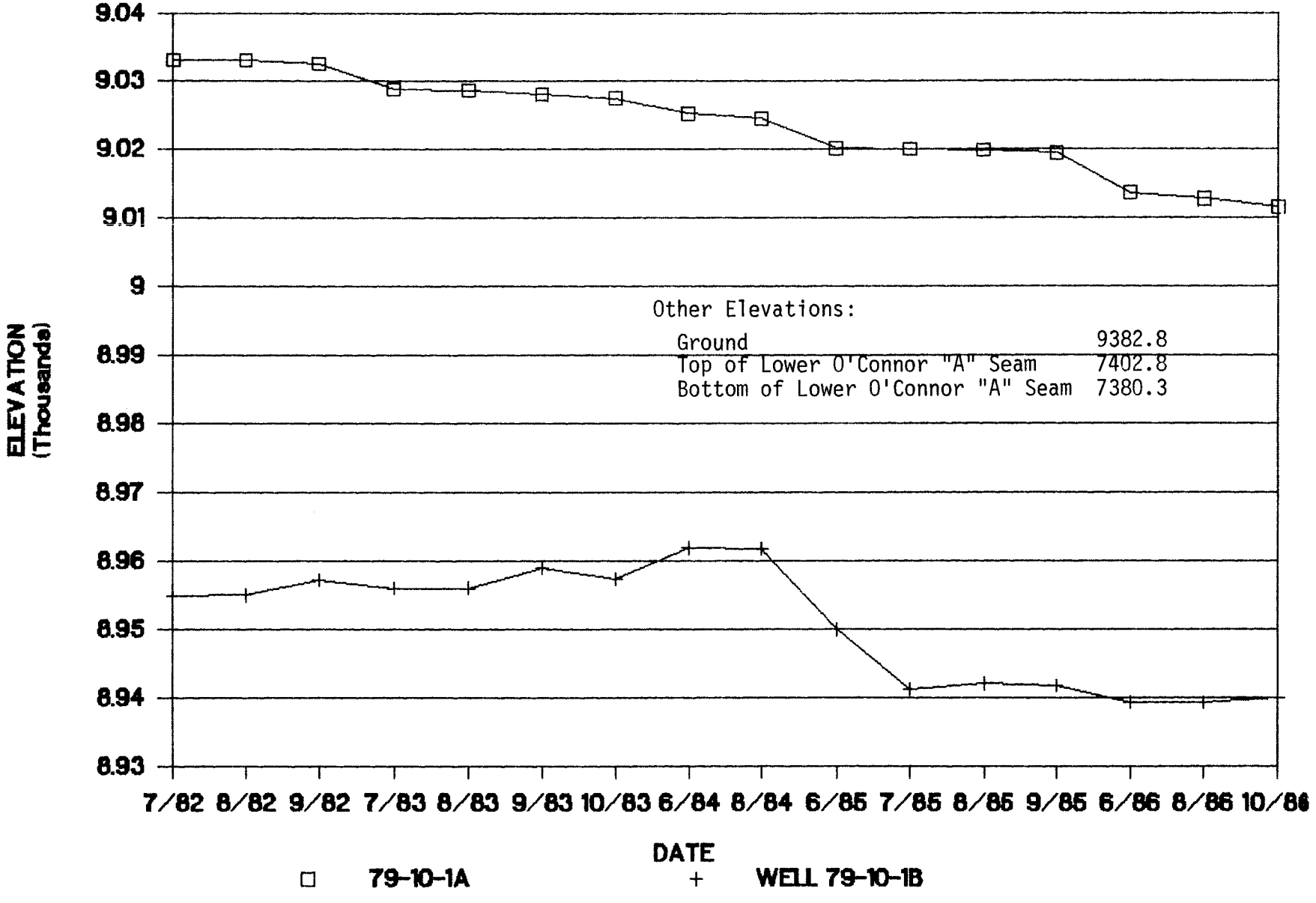
WELL WATER LEVEL, 1987 –

Wells 79-35-1A AND 79-35-1B



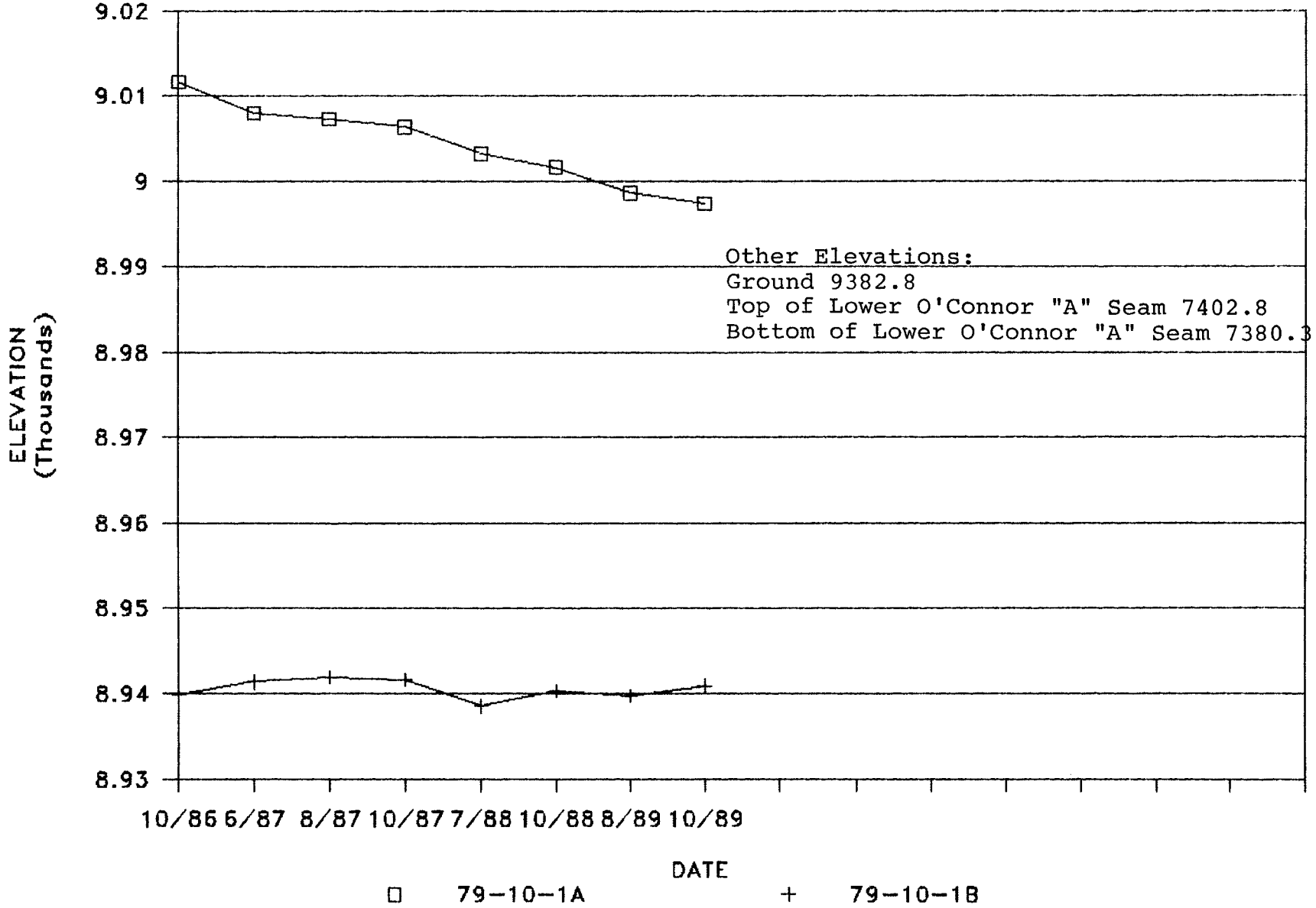
WELL WATER LEVEL, 1982 – 1986

Wells 79-10-1A and 79-10-1B



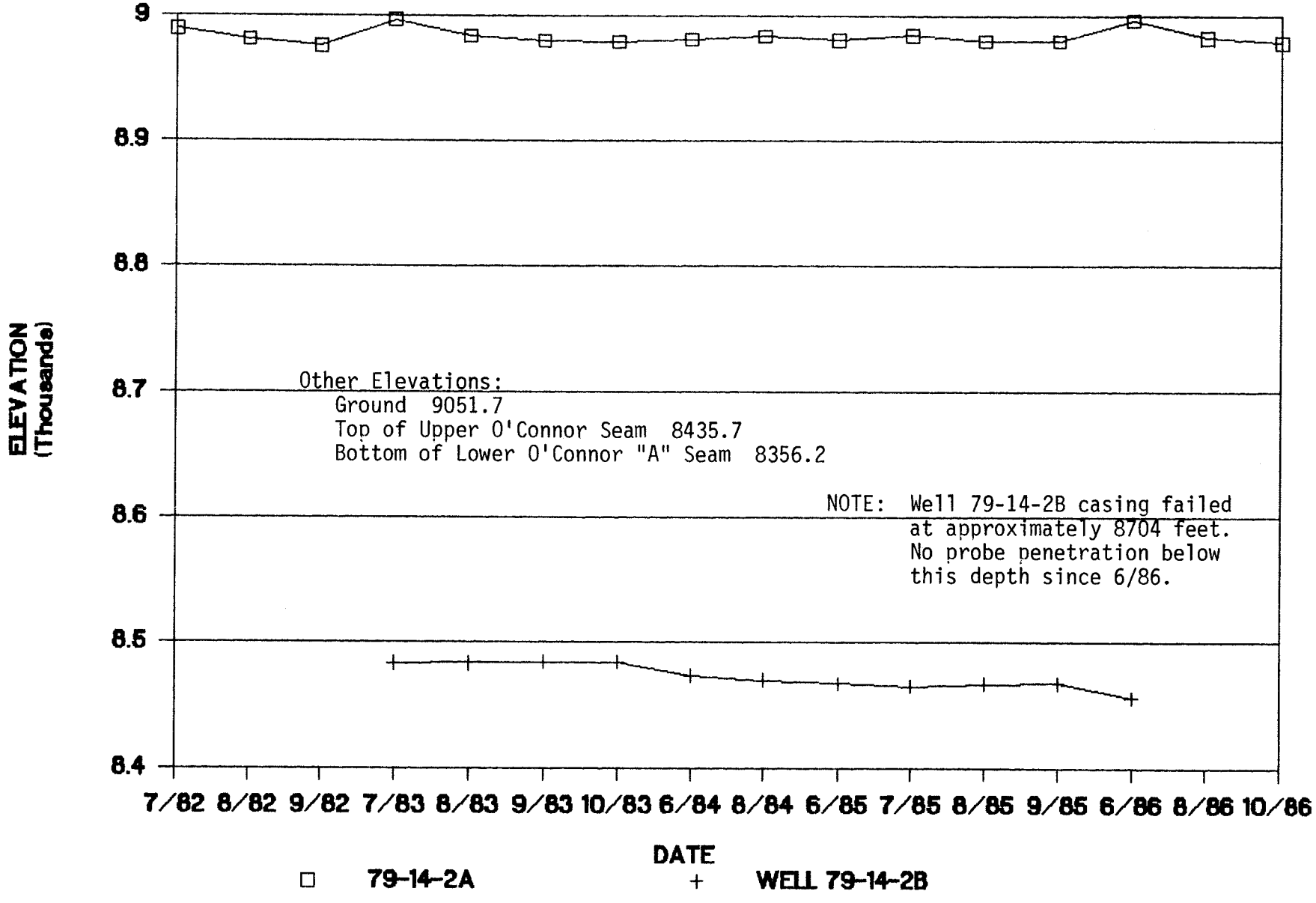
WELL WATER LEVEL, 1987 –

Wells 79-10-1A AND 79-10-1B



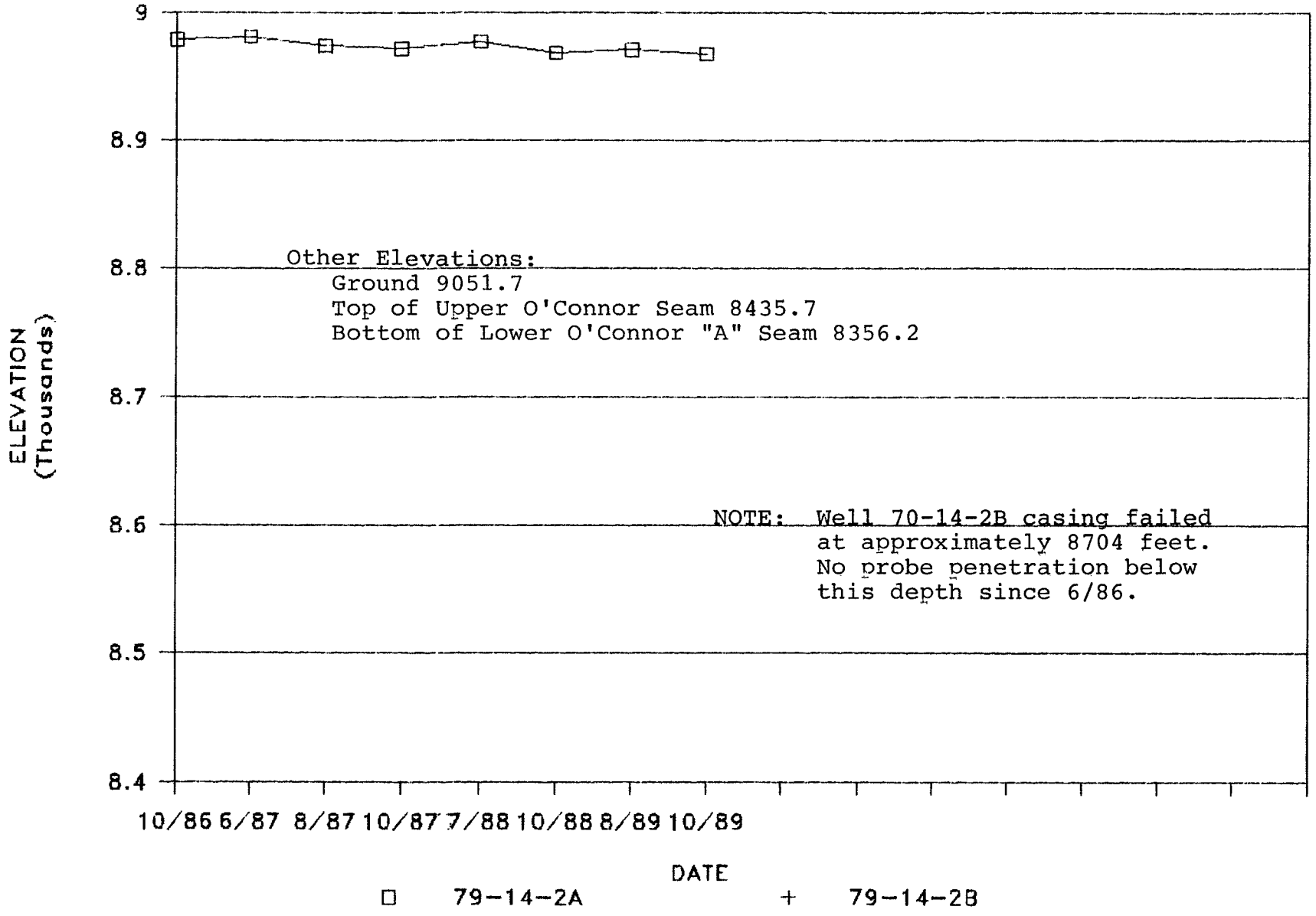
WELL WATER LEVEL, 1982 – 1986

Wells 79-14-2A and 79-14-2B



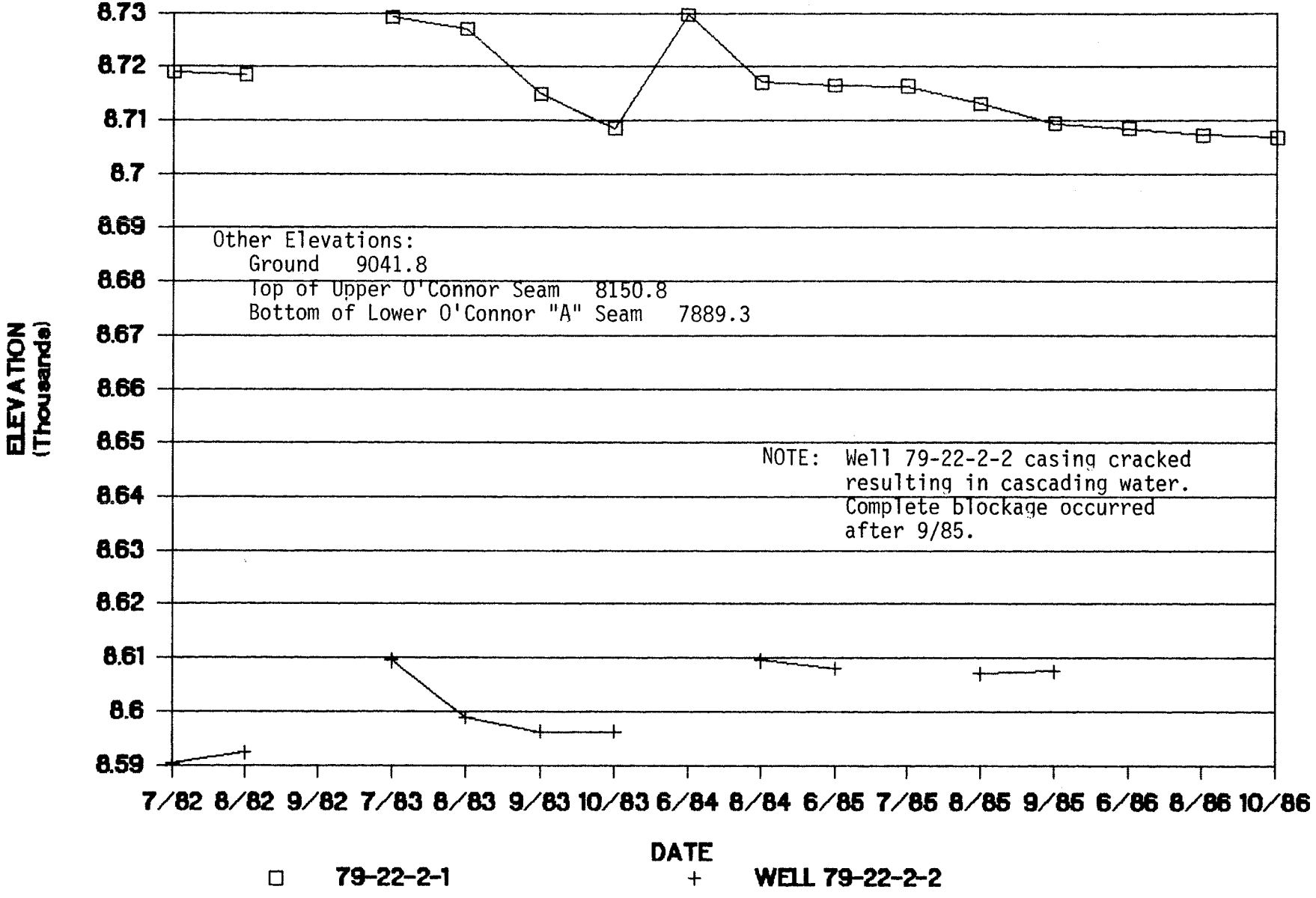
WELL WATER LEVEL, 1987 -

Wells 9-14-2A AND 79-14-2B



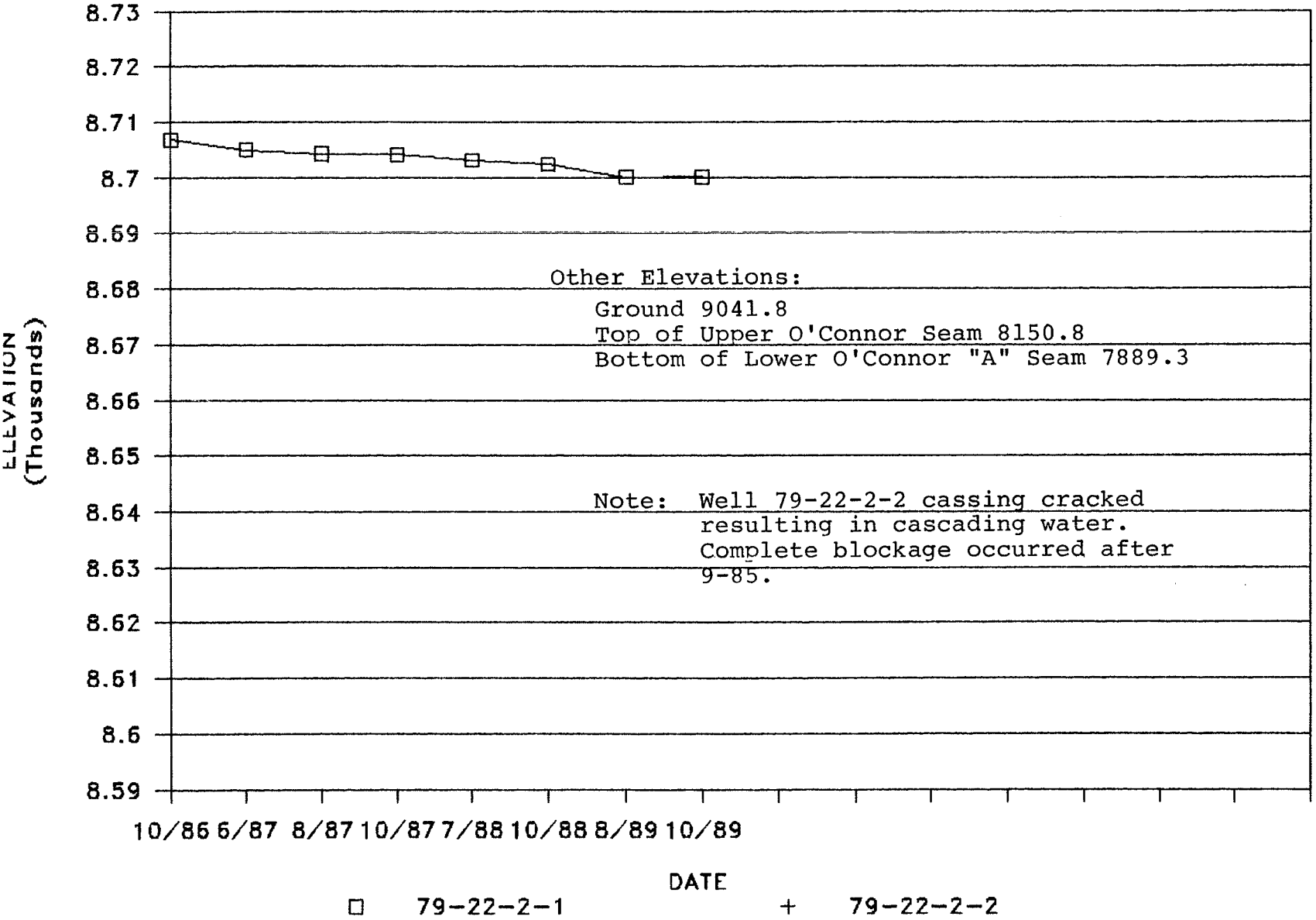
WELL WATER LEVEL, 1982 – 1986

Wells 79-22-2-1 and 79-22-2-2

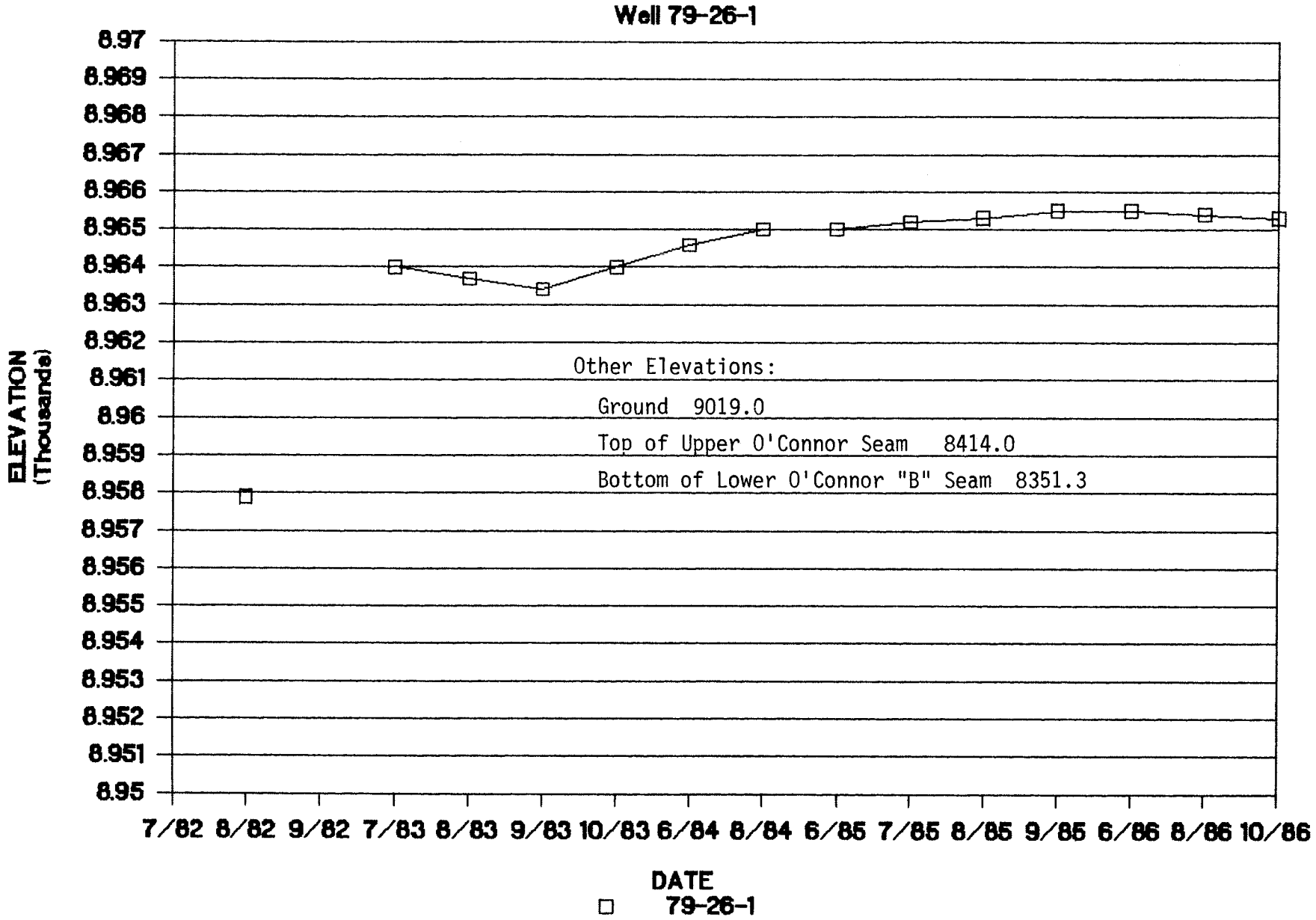


WELL WATER LEVEL, 1987 –

Wells 79-22-2-1 AND 79-22-2-2

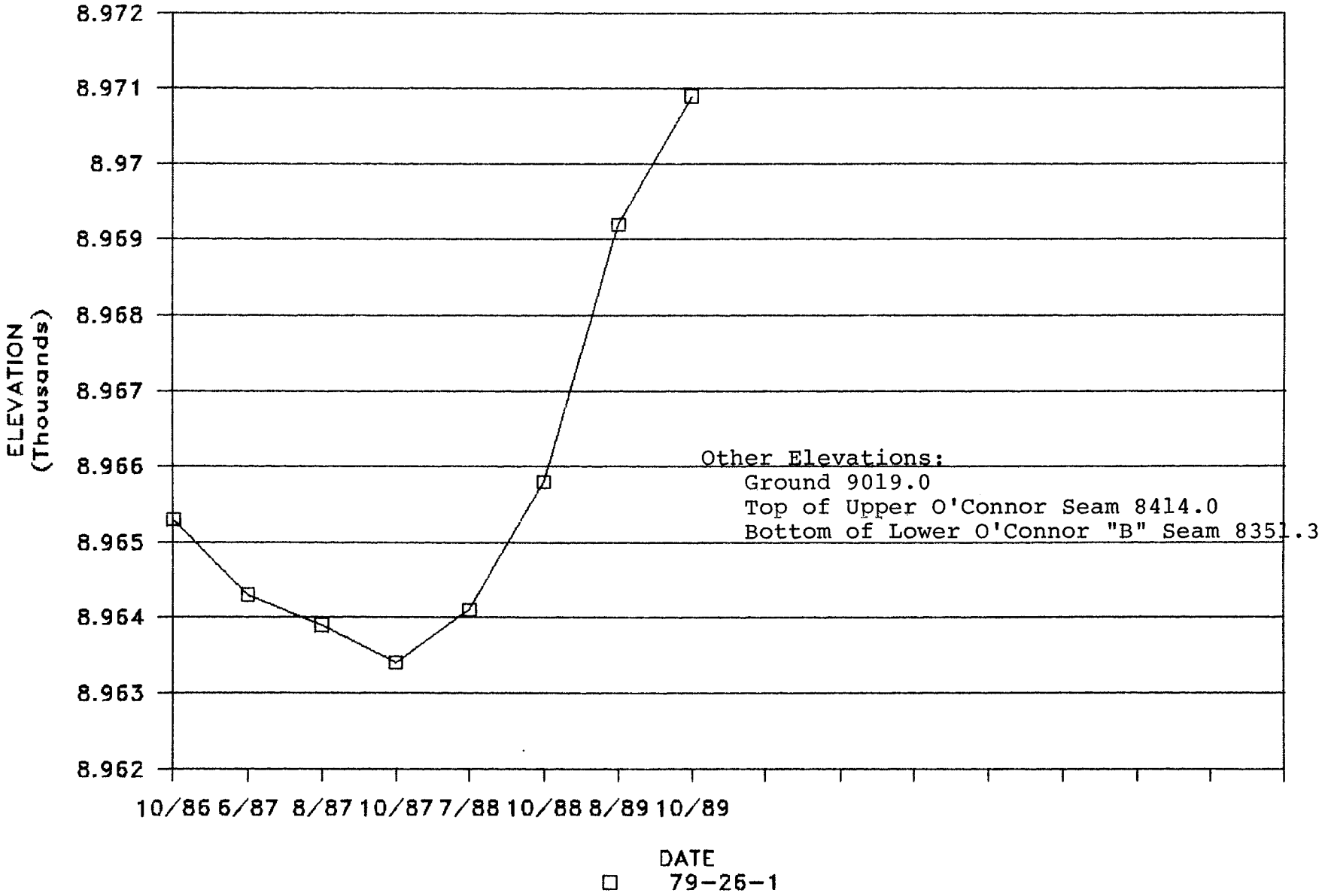


WELL WATER LEVEL, 1982 – 1986



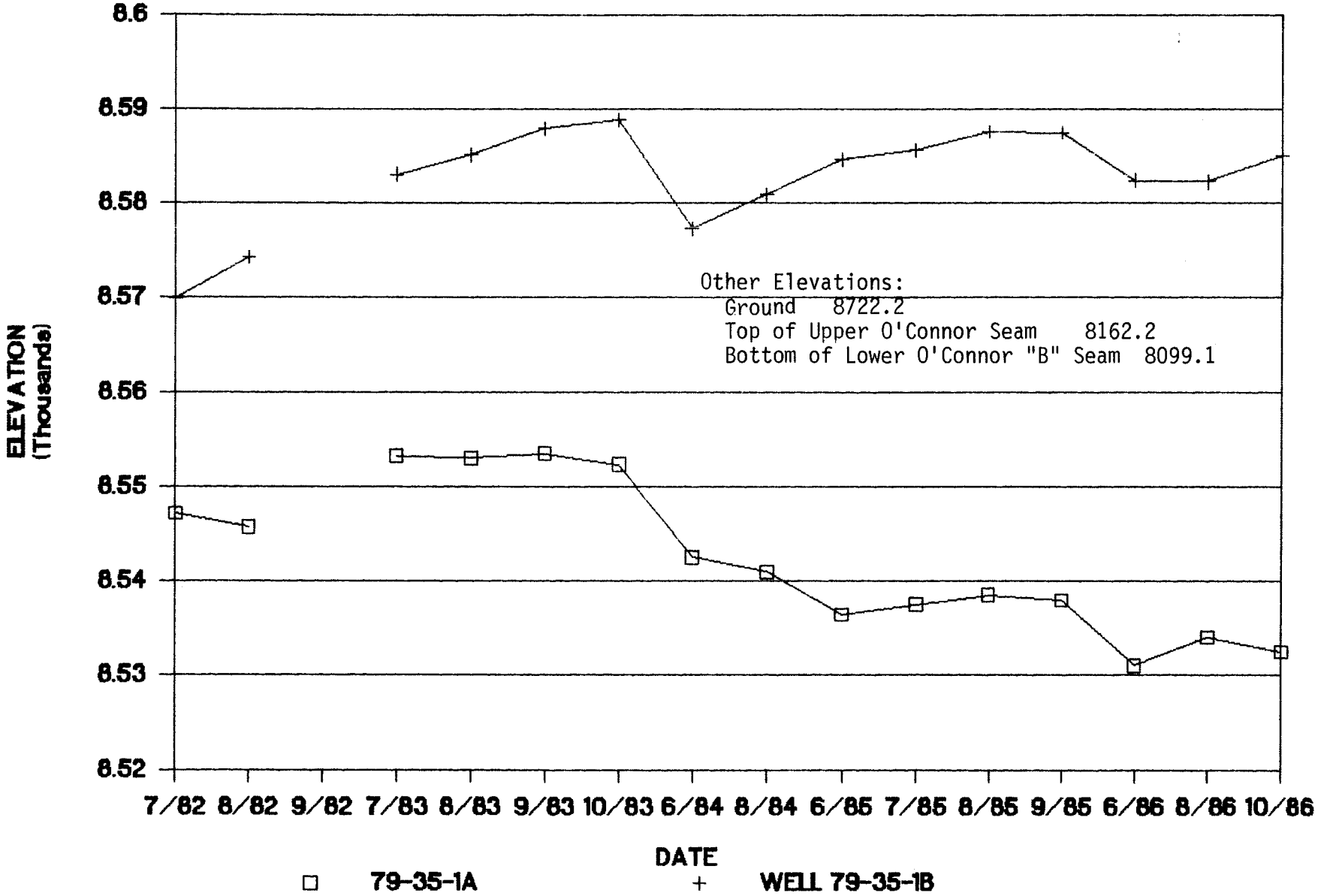
WELL WATER LEVEL, 1987 –

Well 79-26-1



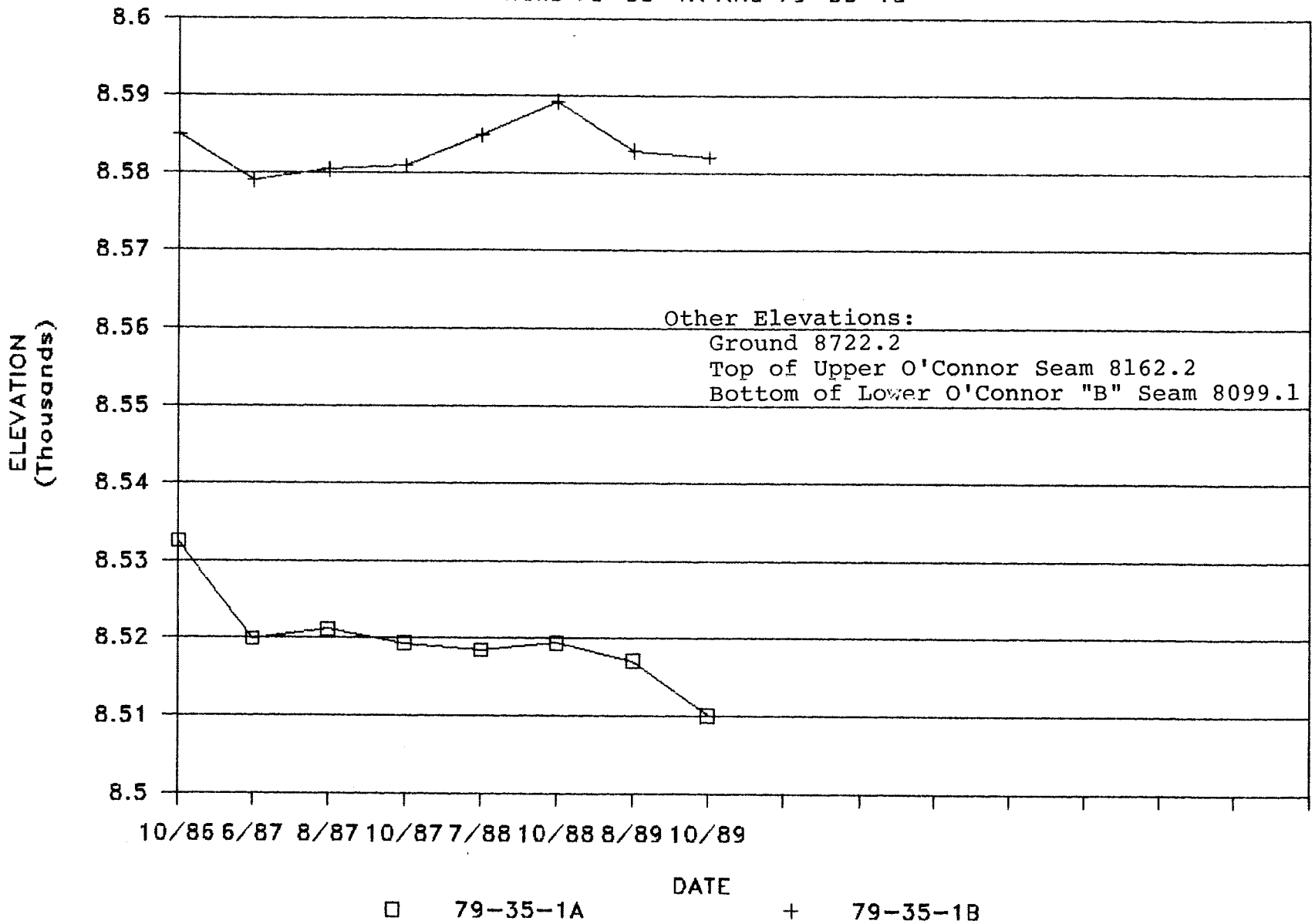
WELL WATER LEVEL, 1982 – 1986

Wells 79-35-1A and 79-35-1B



WELL WATER LEVEL, 1987 –

Wells 79-35-1A AND 79-35-1B



SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN LOCATED ON AND ADJACENT TO THE SKYLINE PROPERTY

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-252	Utah Div. of Wildlife Resources	Gooseberry Creek with Storage	5.0	Fish Culture	January 1 to December 31
91-345	Tom Nicolaides Leon Nicolaides Mary Stathis Bessie Daraban	Green Canyon Spring Stream	0.75	Irrigation	March 1 to November 30
91-423	Nick Marakis (½ interest)	Winter Quarters Creek	----	Stockwatering	January 1 to December 31
91-431	Nick Marakis (½ interest)	Stream	----	Stockwatering	January 1 to December 31
91-436	Nick Marakis (½ interest)	Stream	----	Stockwatering	January 1 to December 31
91-437	Nick Marakis (½ interest)	Clear Creek	----	Stockwatering	January 1 to December 31
91-438	Nick Marakis (½ interest)	Clear Creek	----	Stockwatering	January 1 to December 31
91-440	Nick Marakis (½ interest)	Wash with storage	----	Stockwatering	January 1 to December 31
91-441	Nick Marakis (½ interest)	Stream with storage	----	Stockwatering	Janaury 1 to December 31
91-462	John Marakis Estate (½ interest)	Winter Quarters Creek	----	Stockwatering	January 1 to December 31
91-471	John Marakis Estate (½ interest)	Stream	----	Stockwatering	January 1 to December 31
91-476	John Marakis Estate (½ interest)	Stream	----	Stockwatering	January 1 to December 31
91-477	John Marakis Estate (½ interest)	Clear Creek	----	Stockwatering	January 1 to December 31
91-478	John Marakis Estate (½ interest)	Clear Creek	----	Stockwatering	January 1 to December 31

Tab # 4

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-1022	U.S. Forest Service	S. Fork Eccles Canyon Cr.	----	Stockwatering	July 1 to September 30
91-1023	U.S. Forest Service	Tributary to South Fork Eccles Canyon Creek	----	Stockwatering	July 1 to September 30
91-1024	U.S. Forest Service	Tributary to South Fork Eccles Canyon Creek	----	Stockwatering	July 1 to September 30
91-1025	U.S. Forest Service	Tributary to Eccles Canyon Cr.	----	Stockwatering	July 1 to September 30
91-1026	U.S. Forest Service	Tributary to Eccles Canyon Cr.	----	Stockwatering	July 1 to September 30
91-1027	U.S. Forest Service	Eccles Canyon Creek	----	Stockwatering	July 1 to September 30
91-1028	U.S. Forest Service	Eccles Canyon Creek	----	Stockwatering	July 1 to September 30
91-1029	U.S. Forest Service	Tributary to Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1030	U.S. Forest Service	Tributary to Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1031	U.S. Forest Service	Tributary to Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1032	U.S. Forest Service	Tributary to Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1033	U.S. Forest Service	Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1034	U.S. Forest Service	Tributary to Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1037	U.S. Forest Service	Tributary to Winter Quarters Canyon Creek	----	Stockwatering	July 1 to September 30
91-1038	U.S. Forest Service	Woods Canyon Creek	----	Stockwatering	July 1 to September 30
91-1040	U.S. Forest Service	East Fork Dairy Creek	----	Stockwatering	July 1 to September 30
91-1041	U.S. Forest Service	Andrew Dairy Creek	----	Stockwatering	July 1 to September 30

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-1148	Leon & Tom Nicolaides Mary Stathis Bessie Daraban	Green Canyon Stream	----	Stockwatering	January 1 to December 31
91-1149	U.S. Forest Service	Gooseberry Creek with Storage	----	Stockwatering	July 1 to October 5
91-1678	Calvin K. Jacob	Stream	----	Stockwatering	May 1 to November 30
91-1713	N.M. Jensen Investment Co.	Spring Stream	----	Stockwatering Domestic	January 1 to December 31
91-2018	Angelo Georgedes	Green Canyon Stream with Storage	----	Stockwatering	May 1 to October 31
91-2019	Angelo Georgedes	Stream with storage	----	Stockwatering	May 1 to October 31
91-2020	Angelo Georgedes	Green Canyon Stream	----	Stockwatering	May 1 to October 31
91-2048	John Jouflas Estate	Pleasant Creek	----	Stockwatering	May 1 to October 31
91-2146	Elrie and Bertha Simonsen	Winter Quarters Creek	----	Stockwatering	June 1 to November 30
91-2495	Elrie & Bertha Simonsen	Woods Canyon Creek	----	Stockwatering	June 1 to November 30
91-2496	Elrie & Bertha Simonsen	Stream with storage	----	Stockwatering	June 1 to November 30
91-2548	John Jouflas Estate (2/3 interest)	Pleasant Creek	----	Stockwatering	May 1 to October 31
91-2549	Lee S. Thomas (1/3 interest)	Pleasant Creek	----	Stockwatering	May 1 to October 31
91-2971	Lee S. Thomas (1/3 interest)	Clear Creek	0.106	Irrigation	March 1 to November 30
91-2972	John Jouflas Estate (2/3 interest)	Clear Creek	0.106	Irrigation	March 1 to November 30
91-2973	John Jouflas Estate	Clear Creek	0.381	Irrigation	March 1 to November 30

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-2997	Alice M. Pannier (4.85/21.70 interest)	Woods Canyon Creek	0.50	Irrigation	March 1 to November 30
91-2998	Boyd W. & Johannah M. Hafen (12.0/21.70 interest)	Woods Canyon Creek	0.50	Irrigation	March 1 to November 30
91-2999	Reed & Leoan M. Gunderson	Woods Canyon Creek	0.136	Irrigation	March 1 to November 30
91-3002	Della L. Madsen	Woods Canyon Creek	0.035	Irrigation	March 1 to November 30
91-3003	Charles J. Jacobsen Evelyn M. Jacobsen Stephen C. Hacobsen Charlyn J. Dalebout (7.9/26.0 interest)	Woods Canyon Creek	0.433	Irrigation	March 1 to November 30
91-3004	Louise M. Watts Helen L. Watts John Andy Watts (18.1/26.0 interest)	Woods Canyon Creek	0.433	Irrigation	March 1 to November 30
91-3007	Elrie M. & Bertha Simonsen	Winter Quarters Creek	0.63	Irrigation	March 1 to November 30
91-3008	S. J. Harkness	Winter Quarters Creek	0.693	Irrigation	March 1 to November 30
91-3009	Elrie M. & Bertha Simonsen	Winter Quarters Creek	0.68	Irrigation	March 1 to November 30
91-3010	S. J. Harkness	Winter Quarters Creek	0.213	Irrigation	March 1 to November 30
91-3011	S. J. Harkness	Winter Quarters Creek	----	Stockwatering	January 1 to December 31
91-3014	Anton Michelog	Snidder Creek	----	Stockwatering	January 1 to December 31
91-3015	Anton Michelog	Mud Creek	----	Stockwatering	January 1 to December 31
91-3040	Tom Nicolaides Leon Nicolaides Mary Stathis Bessie Darsban	Clear Creek	----	Stockwatering	January 1 to December 31
91-3045	Milton A. Oman	Clear Creek	----	Stockwatering	January 1 to December 31

SURFACE WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-3083	Lavern Jensen	Finn Canyon Creek	----	Stockwatering	January 1 to December 31
91-3084	Milton A. Oman	Finn Canyon Creek	----	Stockwatering	January 1 to December 31
91-3086	Anton Michelog	Long Canyon Creek	----	Stockwatering	January 1 to December 31
91-3086	Anton Michelog	Long Canyon Creek	----	Stockwatering	January 1 to December 31
91-3090	Anton Michelog	Stream with storage	----	Stockwatering	January 1 to December 31
91-3405	Elrie & Bertha Simonsen	Woods Canyon Creek	----	Irrigation Stockwatering	March 1 to November 30
91-3440	Calvin R. Jacob	Clear Creek	----	Stockwatering	May 1 to November 30
91-3587	North American Coal Corp.	Boardinghouse Canyon Creek	----	Stockwatering	June 1 to November 30
91-3588	North American Coal Corp.	Finn Canyon Creek	----	Stockwatering	June 1 to November 30
91-3589	North American Coal Corp.	Mud Creek	----	Stockwatering	June 1 to November 30
91-3622	Mae Nicolodemas	Clear Creek	0.016	Irrigation	March 1 to November 30
91-3630	Utah Board of State Lands	Gooseberry Creek	----	Stockwatering	June 1 to November 30
91-3631	D. Euray Allred	Woods Canyon Creek	----	Stockwatering	May 1 to November 30
91-3633	D. Euray Allred	Winter Quarters Creek	----	Stockwatering	May 1 to November 30
91-3635	D. Euray Allred	Stream	----	Stockwatering	May 1 to November 30
91-3641	Pete Frandsen	Stream with storage	----	Stockwatering	June 1 to November 30
91-3644	Justus O. Seely	Clear Creek	----	Stockwatering	June 1 to November 30
91-3645	S. J. Harkness	Clear Creek	----	Stockwatering	June 1 to November 30
91-3648	John B. Jones	Clear Creek	----	Stockwatering	January 1 to December 31
91-3655	John B. Jones	Woods Canyon Creek	----	Stockwatering	January 1 to December 31

SURFACE WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN LOCATED ON AND ADJACENT TO THE SKYLINE PROPERTY

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-1	U.S. Forest Service	Kitchen Fork of Huntington Cr.	-----	Stockwatering	July 1 to October 10
93-2	U.S. Forest Service	Kitchen Fork of Huntington Cr.	-----	Stockwatering	July 1 to September 30
93-3	U.S. Forest Service	Kitchen Fork of Huntington Cr.	-----	Stockwatering	July 1 to September 30
93-4	Crowther Investment Co.	Kitchen Fork of Huntington Cr.	-----	Stockwatering	July 1 to September 30
93-6	U.S. Forest Service	N. Fork of Huntington Creek	-----	Stockwatering	July 1 to September 30
93-8	U.S. Forest Service	Unnamed for of Huntington Cr.	-----	Stockwatering	July 1 to September 30
93-9	U.S. Forest Service	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-10	L.D.S. Church	Swens Canyon Creek	-----	Stockwatering	----------
93-11	U.S. Forest Service	Swen's Canyon Creek	-----	Stockwatering	July 1 to September 30
93-12	U.S. Forest Service	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-13	U.S. Forest Service	Burnout Canyon Creek	-----	Stockwatering	July 1 to September 30
93-14	U.S. Forest Service	James Canyon Creek	-----	Stockwatering	July 1 to September 30
93-16	U.S. Forest Service	James Canyon Creek	-----	Stockwatering	July 1 to September 30
93-18	U.S. Forest Service	Flat Canyon Creek	-----	Stockwatering	July 1 to September 30
93-19	U.S. Forest Service	Flat Canyon Creek	-----	Stockwatering	July 1 to September 30
93-20	U.S. Forest Service	Boulger Creek	-----	Stockwatering	July 1 to September 30
93-21	U.S. Forest Service	Boulger Creek	-----	Stockwatering	July 1 to September 30
93-32	Lela C. Mower	Jackson Spring #1 Stream	-----	Irrigation Stockwatering	----------
93-33	Clyde K. Cox	Jackson Spring #1 Stream	-----	Irrigation Stockwatering	----------

SURFACE WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-77	Utah Power & Light Co.	Bear Canyon Creek	-----	Stockwatering	July 1 to September 30
93-78	U.S. Forest Service	Coal Creek	-----	Stockwatering	July 1 to September 30
93-79	U.S. Forest Service	Coal Creek	-----	Stockwatering	July 1 to September 30
93-80	Reed Neilson	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-81	Bernard Nielsen	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-82	Utah Power and Light Co.	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-83	U.S. Forest Service	Cox Canyon Creek	-----	Stockwatering	July 1 to September 30
93-84	U.S. Forest Service	Valentine Gulch	-----	Stockwatering	July 1 to September 30
93-85	U.S. Forest Service	Valentine Gulch	-----	Stockwatering	July 1 to September 30
93-89	Valenine Gulch Inc.	Valentine Gulch	-----	Stockwatering	July 1 to September 30
93-96	Utah Power and Light Co.	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-265	Utah Power and Light Co.	Coal Creek	-----	Stockwatering	July 1 to September 30
93-290	Utah Power and Light Co.	Coal Creek	-----	Stockwatering	July 1 to September 30
93-338	U.S. Forest Service	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-346	L.D.S. Church	Little Swens Canyon Cr.	-----	Stockwatering Domestic	June 1 to November 30
93-348	U.S. Forest Service	Spring Creek	-----	Stockwatering	June 16 to October 5
93-399	Utah Power and Light Co.	Huntington Creek	-----	Stockwatering	July 1 to September 30
93-434	William R. Whitehead et al	Kitchen Fork of Huntington Cr.	-----	Stockwatering	June 1 to November 30
93-543	Morris S. & Betty A. Cook	Coal Creek	-----	Stockwatering	July 1 to September 30
93-551	Utah Power and Light Co.	Cox Canyon Creek	-----	Stockwatering	July 1 to September 30
93-553	Utah Power and Light Co.	James Canyon Creek	-----	Stockwatering	July 1 to September 30

GROUND WATER RIGHTS IN THE PRICE RIVER BASIN LOCATED ON AND ADJACENT TO THE SKYLINE PROPERTY

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-119	U.S. Forest Service	Spring	0.03	Domestic, Irrigation	March 1 to November 30
91-136	U.S. Forest Service	Beaver Dam Ridge Spring	0.006	Stockwatering	May 1 to October 31
91-200	Utah Natural Gas Company (½ interest)	Underground Water, well	0.134	Domestic Irrigation	January 1 to December 31
91-201	Earl Thomas	Spring with storage	0.068	Stockwatering	April 15 to November 1
91-288	U.S. Forest Service	Gooseberry Campground Spring	0.098	Domestic	May 1 to October 31
91-408	Calvin K. Jacob	Spring	0.011	Stockwatering	May 1 to November 30
91-424	Nick Marakis (½ interest)	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-425	Nick Marakis (½ interest)	Spring	0.022	Stockwatering	January 1 to December 31
91-432	Nick Marakis (½ interest)	Spring	0.011	Stockwatering	January 1 to December 31
91-433	Nick Marakis (½ interest)	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-434	Nick Marakis (½ interest)	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-435	Nick Marakis (½ interest)	Spring	0.011	Stockwatering	January 1 to December 31
91-455	Robert Radakovich	Spring	0.011	Stockwatering	May 1 to December 15
91-463	John Marakis Estate (½ interest)	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-464	John Marakis Estate (½ interest)	Spring	0.022	Stockwatering	January 1 to December 31
91-472	John Marakis Estate (½ interest)	Spring	0.011	Stockwatering	January 1 to December 31

GROUND WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-1158	N.M. Jensen Investment Co.	Aagard Spring	0.638	Irr.,Stock., Domestic	June 1 to October 31
91-1643	Jack Thomas	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-1644	Lee Thomas (1/3 interest)	Spring	-----	Stockwatering	May 1 to October 31
91-1679	Calvin K. Jacob	Spring	0.011	Stock. and Domestic	May 1 to November 30
91-1680	Calvin K. Jacob	Spring	0.011	Stockwatering	May 1 to November 30
91-1681	Calvin K. Jacob	Spring	0.011	Stockwatering	May 1 to November 30
91-1699	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1700	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1701	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1702	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1710	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1711	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1714	N.M. Jensen Investment Co.	Spring	0.022	Stockwatering	June 1 to October 31
91-1986	Angelo Georgedes	Spring with storage	0.05	Fish Culture	January 1 to December 31
91-2049	John Jouflas Estate (2/3 interest)	Spring	0.011	Stockwatering	May 1 to October 31
91-2144	Elrie and Bertha Simonsen (½ interest)	Simonsen Spring	0.022	Domestic	January 1 to December 31
91-2145	Robert Radakovich (½ interest)	Simonsen Spring	0.022	Domestic	January 1 to December 31
91-2288	Elrie & Bertha Simonsen	Spring	0.011	Stockwatering	June 1 to November 30
91-2494	Elrie & Bertha Simonsen	Mooney Mine Spring	----	Irrigation Stockwatering	March 1 to November 30

GROUND WATER RIGHTS IN THE PRICE RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-3601	Della L. Madsen	Spring	0.011	Stockwatering	June 1 to November 30
91-3634	D. Euray Allred	Spring	0.011	Stockwatering	May 1 to November 30
91-3638	D. Euray Allred	Spring	0.011	Stockwatering	May 1 to November 30
91-3642	John B. Jones	Spring with storage	0.011	Stockwatering	January 1 to December 31
91-3668	Angelo Georgedes	Spring	0.015	Stockwatering	May 1 to October 31
91-3971	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3973	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3974	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3975	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3976	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3977	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3978	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3979	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3980	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3981	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3982	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3983	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
91-3985	Lionel L. Peterson	Spring	0.022	Stock. & Domestic	May 1 to November 30
P*91-4217	Carol C. Dixon	Collard Spring	9.64	Stock. & Domestic	January 1 to December 31
P*91-4319	Robert Anderson	Robert Anderson Spring	0.035AF	Stock. & Domestic	January 1 to December 31

P* - Pending

GROUND WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-59	Clyde K. Cox	Saw Mill Spring	-----	Stockwatering, Irrig.	----------
93-60	Roscoe C. Cox	Stan Spring #1	-----	Stockwatering	----------
93-61	Roscoe C. Cox	Stan Spring #2	-----	Stockwatering	----------
93-62	Stanley Cox	Saw Mill Springs	-----	Stockwatering, Irrig.	----------
93-63	Stanley Cox	Stan Spring #1	-----	Stockwatering, Irrig.	----------
93-64	Roscoe C. Cox	Stan Spring #1	-----	Stockwatering, Irrig.	----------
93-65	Doris R. Cox	Stan Spring #2	-----	Stockwatering, Irrig.	----------
93-66	Donald B. Cox	Stan Spring #2	-----	Stockwatering, Irrig.	----------
93-67	Newel B. Cox	Mineral Spring #2	-----	Stockwatering, Irrig.	----------
93-68	Evan Cox	Stan Spring #2	-----	Stockwatering, Irrig.	
93-69	A. Ira Cox	Stan Spring #2	-----	Stockwatering, Irrig.	----------
93-70	Olea D. Cox	Mineral Spring #2	-----	Stockwatering, Irrig.	----------
93-71	Roscoe C. Cox	Worth Spring Stream	-----	Stockwatering, Irrig.	----------
93-72	Evan Cox	Ross Spring #2	-----	Stockwatering	----------
93-75	Evan Cox	Ross Spring #3	-----	Stockwatering	----------
93-90	L.D.S. Church	Unnamed Spring	0.022	Stockwatering Domestic	June 1 to November 30
93-114	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-127	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-145	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-153	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-154	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30

GROUND WATER RIGHTS IN THE SAN RAFAEL RIVER BASIN (continued)

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
93-404	Russel O. Brown	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-411	M. Dover Hunt	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-429	Don Evans	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-430	Eli Clayson	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-431	Clark T. Thorstensen	Unnamed Spring	0.0222	Stockwatering	June 1 to October 15
93-432	Crowther Investment Company	Brooks Canyon Divide	0.011	Stockwatering	June 1 to October 15
93-433	William R. Whitehead et al	Unnamed Spring	0.011	Stockwatering	June 1 to October 15
93-435	Crowther Investment Company	Unnamed Spring	0.011	Stockwatering	June 1 to October 15
93-449	Crowther Investment Company	Unnamed Spring	0.011	Stockwatering Domestic	June 1 to October 15
93-763	Robert N. Anderson	Unnamed Spring #8	0.018	Stockwatering	June 15 to October 15
93-770	W. Chad Cox	Spring House Spring	-----	Irrigation Stockwatering	----------
93-771	Donald B. Cox	Spring House Spring	-----	Irrigation Stockwatering	----------
93-773	Roscoe C. Cox	Ross Spring #1	-----	Stockwatering	----------
93-774	A. Ira Cox	Ike Spring #1	-----	Stockwatering	----------
93-775	A. Ira Cox	Ike Spring #2	-----	Stockwatering	----------
93-838	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-839	L.D.S. Church	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-840	N. M. Jensen Investment Company	Unnamed Spring	0.022	Stockwatering	June 1 to November 30
93-841	N. M. Jensen Investment Company	Unnamed Spring	0.022	Stockwatering Domestic	June 1 to November 30

WATER RIGHT EXCHANGES IN THE SKYLINE PROPERTY AREA

Water Use Claim No.	Owner	Source	Flow (cfs)	Purpose of Use	Period of Use
91-164	Louise Gorishek	Well	1.0 A.F.	Domestic	January 1 to December 31
91-452	Robert Radakovich	Well	1.0 A.F.	Stockwatering	March 1 to November 30
91-772	Valley Camp Coal Company	Well	0.446 cfs	Industrial Domestic	January 1 to December 31
91-940	Gooseberry Enterprise Inc	Springs	66.0 A.F.	Domestic	January 1 to December 31
91-1058	Price River Water Users Association	Well	7.7 A.F.	Industrial Domestic	January 1 to December 31
91-1114	Coastal States Energy Co.	Wells	30.0 A.F.	Industrial Domestic	January 1 to December 31
91-1560	Coastal States Energy Co.	Wells	118.0 A.F.	Industrial Domestic	January 1 to December 31
91-1658	Robert Radakovich	Spring	1.0 A.F.	Domestic	January 1 to December 31
91-1669	T.O.E. Investments	Well	3.0 A.F.	Industrial	January 1 to December 31
91-1691	Valley Camp of Utah Inc	Well	7.7 A.F.	Industrial Domestic	January 1 to December 31
91-1906	Coastal States Energy Co.	Wells	118.0 A.F.	Industrial Domestic	January 1 to December 31
91-1912	Jim Nicolodemos	Well	1.0 A.F.	Domestic	January 1 to December 31
91-2188	LDS Church	Well	1.0 A.F.	Domestic	May 1 to October 30
91-2385	Max A. Blackam	Spring	0.5 A.F.	Domestic	January 1 to December 31
91-2475	LDS Church	Well	1.0 A.F.	Domestic	January 1 to December 31

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INTRODUCTION

The typical ditch cross-sections used for calculations of flow in this volume represents the minimum cross-sections found in the field. Actual configurations may vary from the designed cross sections but in all cases will meet or exceed the designed cross sectional areas.