US EPA ARCHIVE DOCUMENT

Central Disposal - VOCs

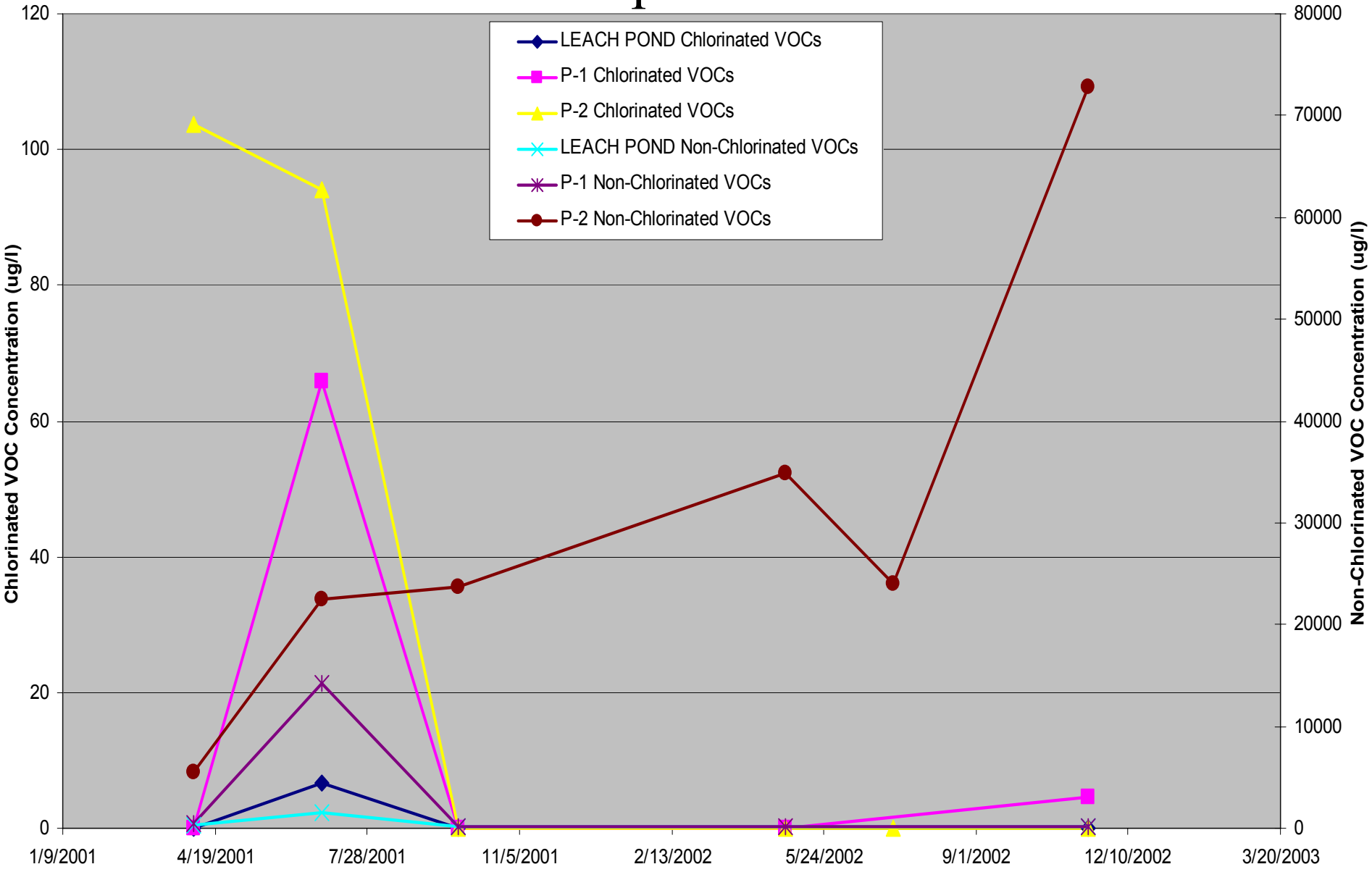


Figure 2: Comparison of COD Concentration

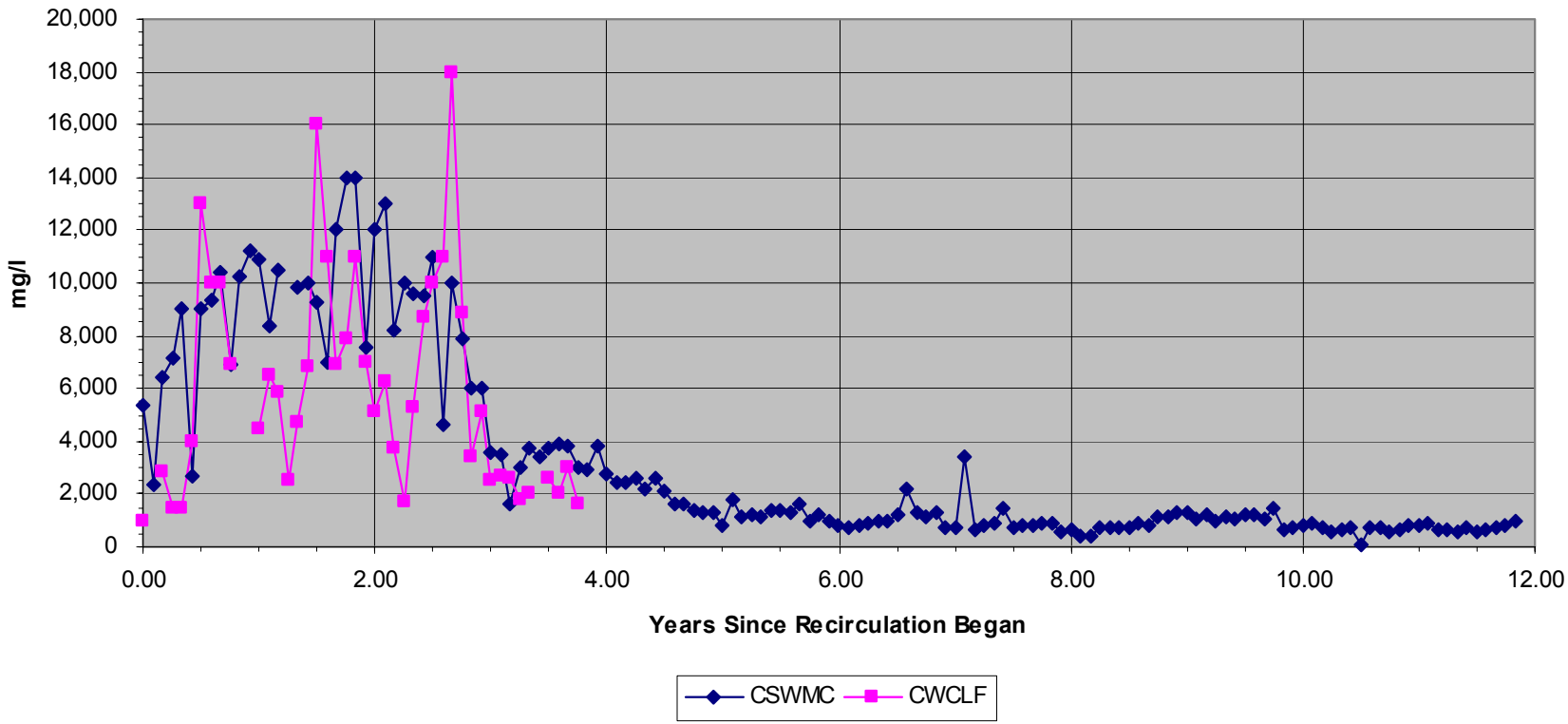
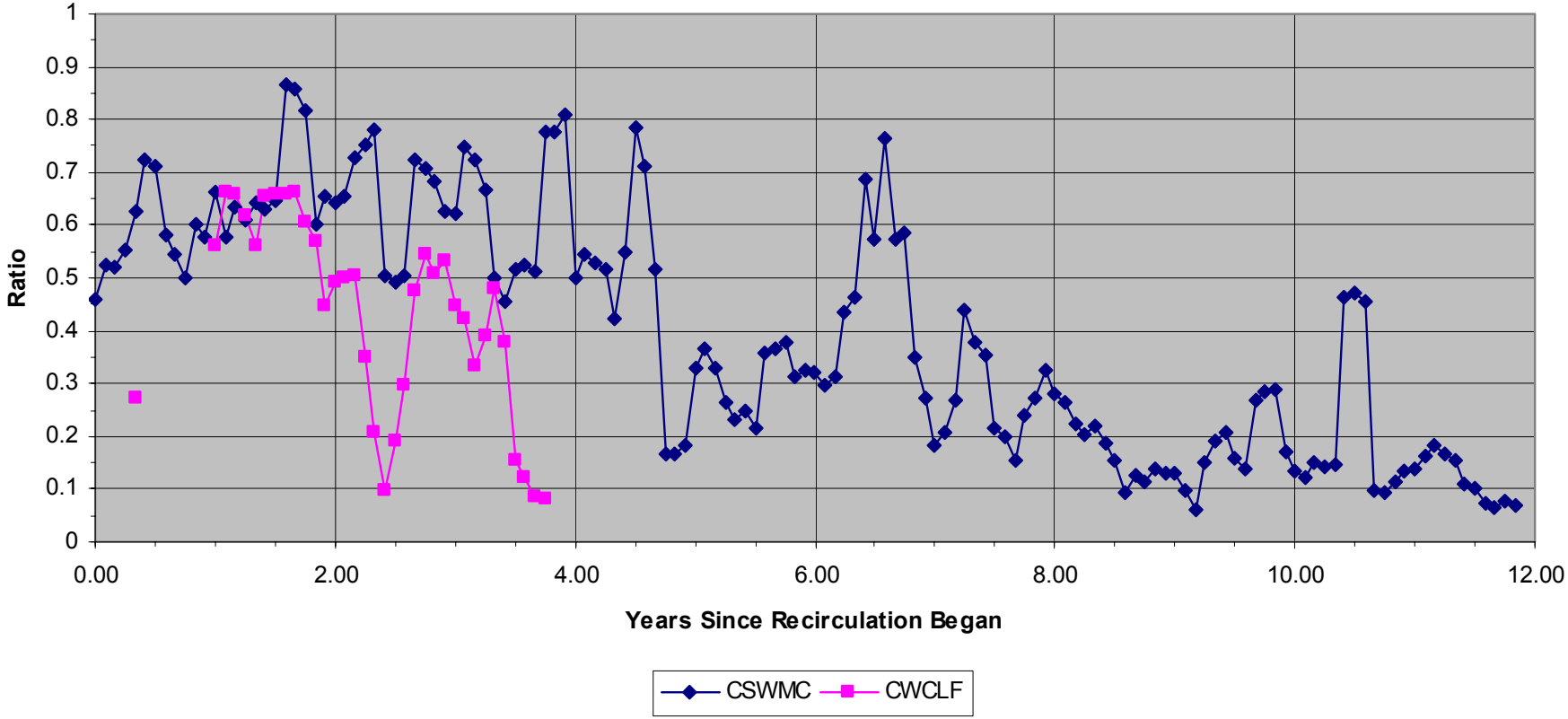
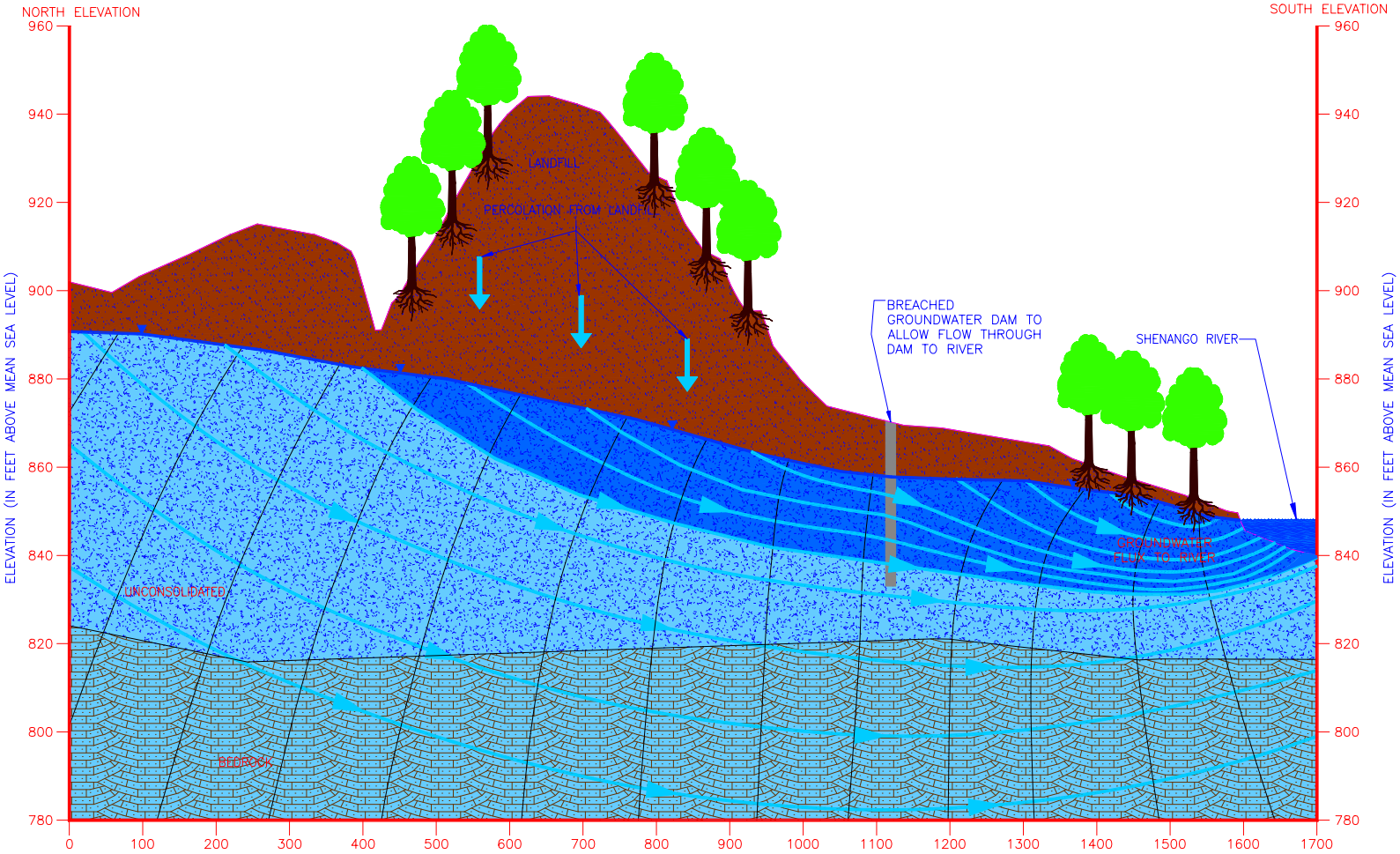
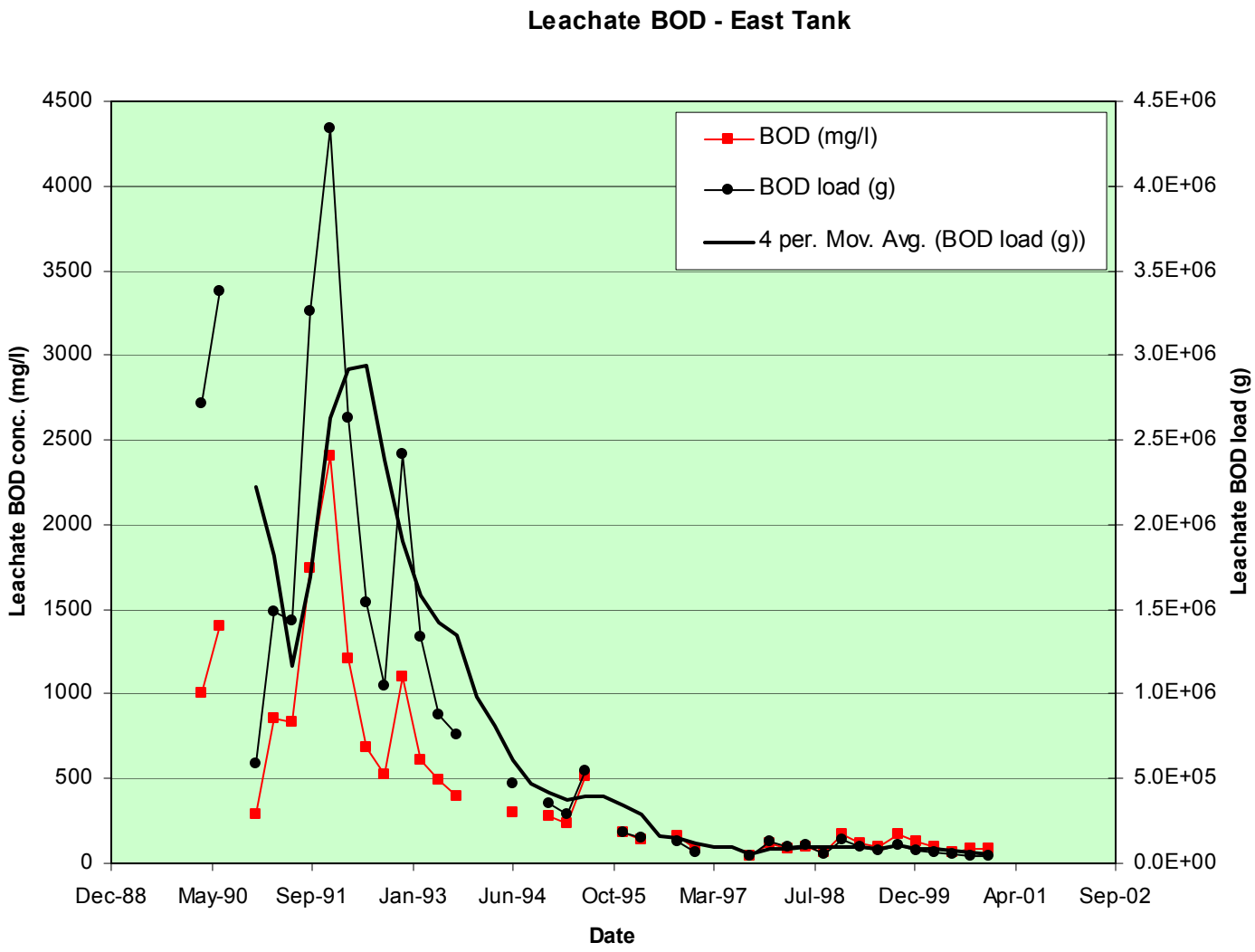


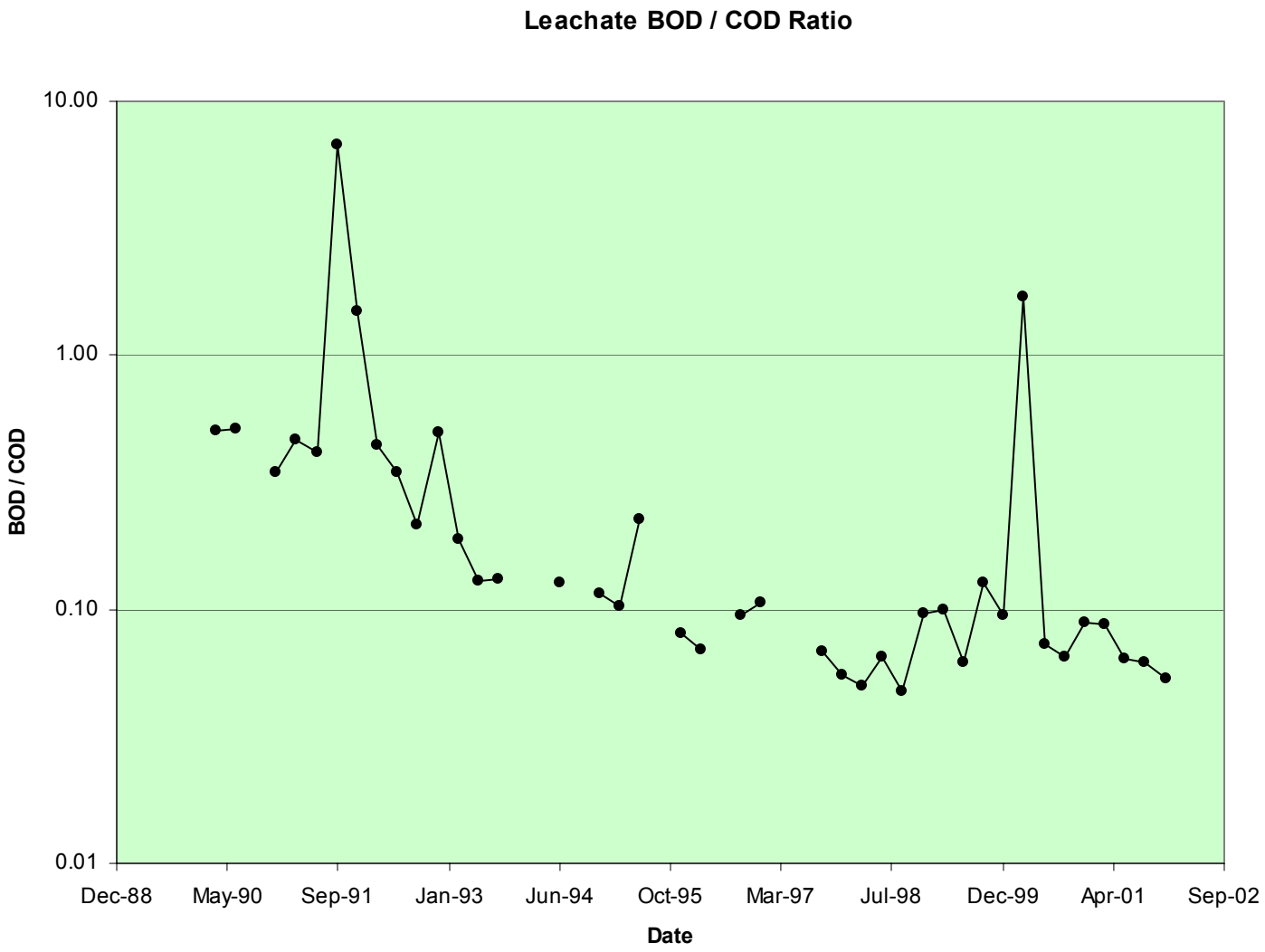
Figure 3: 3-Month Moving Average BOD/COD Ratio

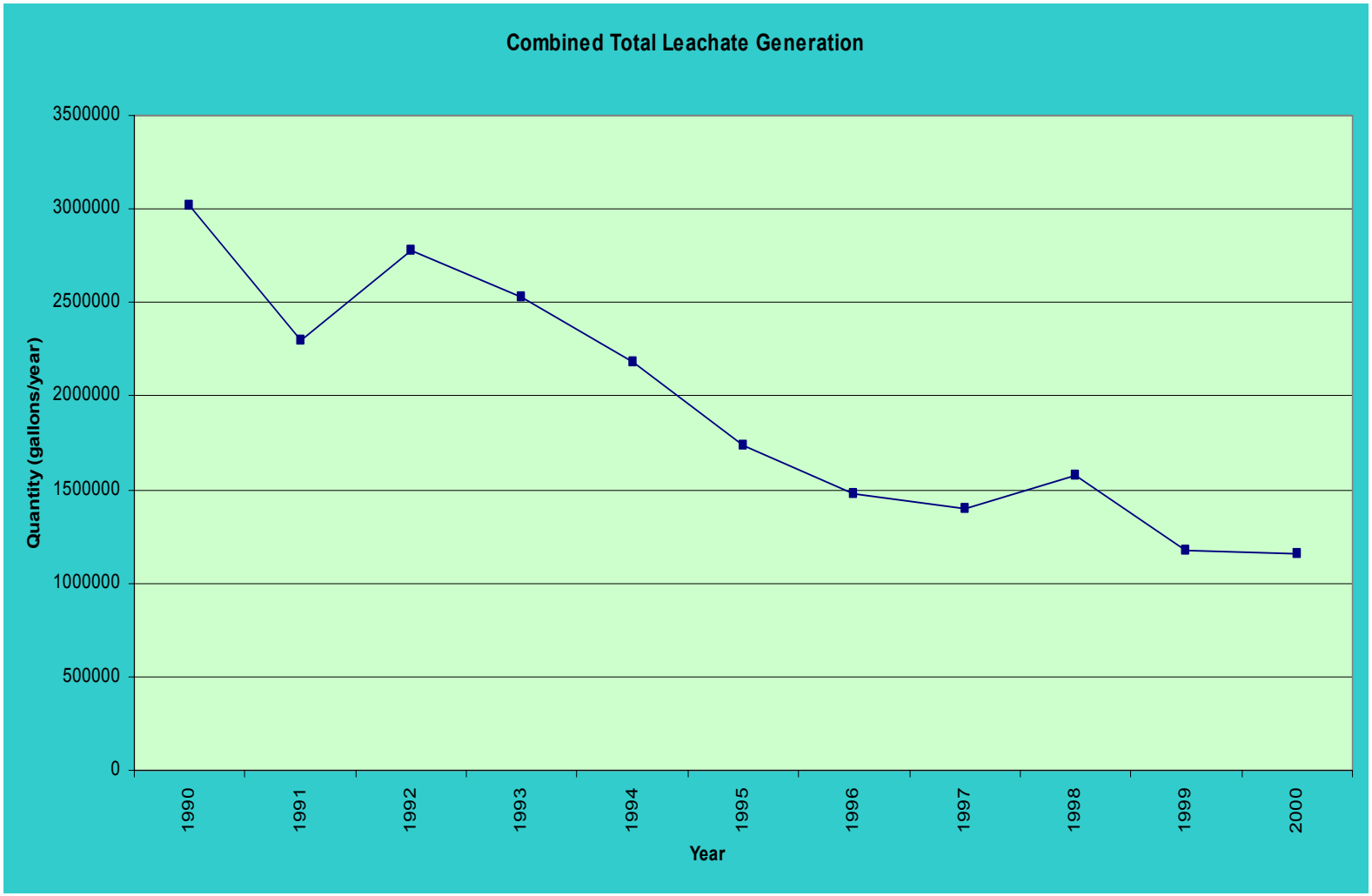




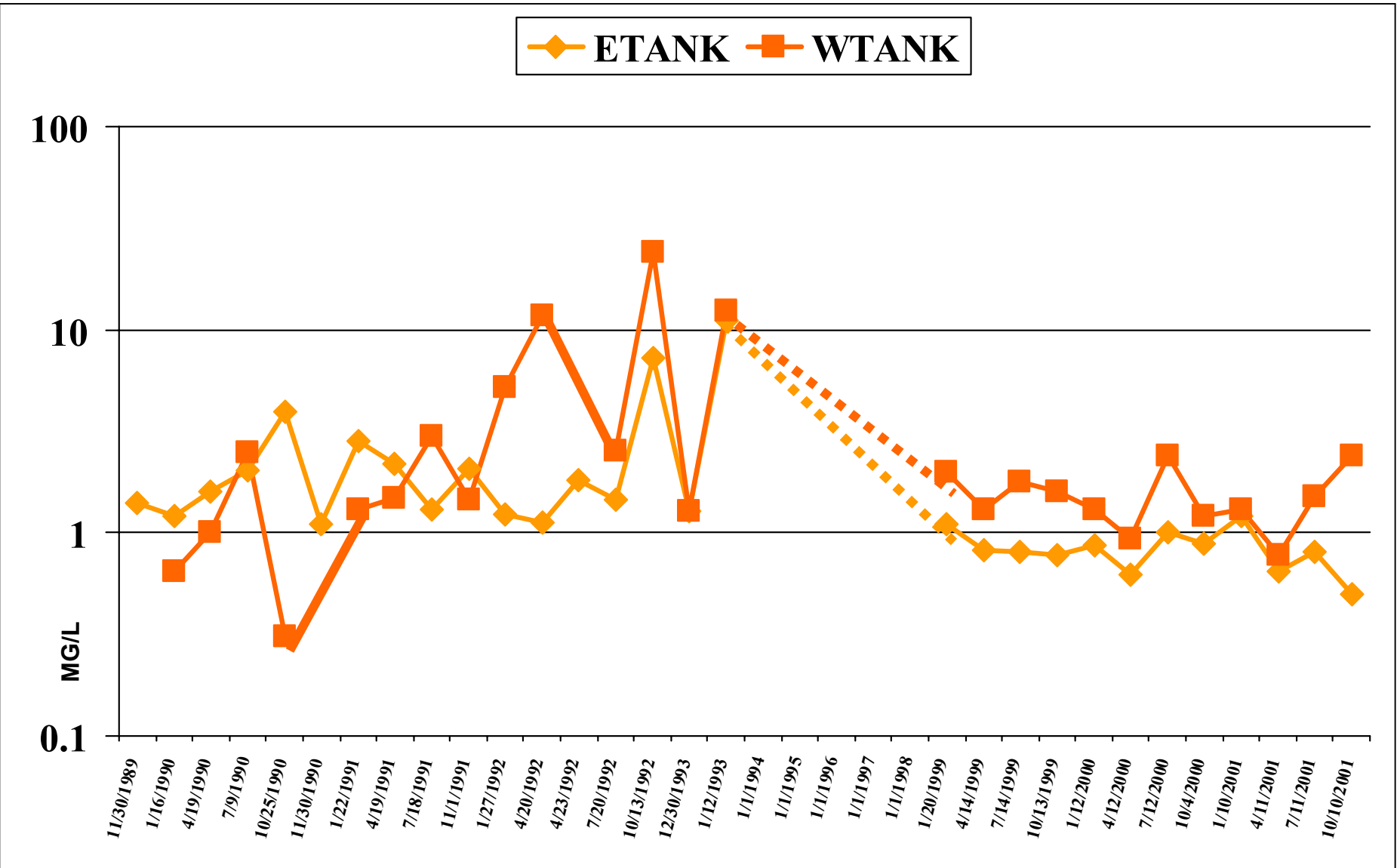
DRAWING BASED ON FIGURE 3-12 OF THE REMEDIAL INVESTIGATION REPORT, MARCH 1995 & ARCADIS G&M, INC FIGURE 4 11/9/98


Leachate BOD - East Tank
BOD (mg/l)
BOD load (g)
4 per. Mov. Avg. (BOD load (g))
Leachate BOD conc. (mg/l)
Leachate BOD load (g)
Date
4500
4000
3500
3000
2500
2000
1500
1000
500
0
4.5E+06
4.0E+06
3.5E+06
3.0E+06
2.5E+06
2.0E+06
1.5E+06
1.0E+06
5.0E+05
0.0E+00
Dec-88
May-90
Sep-91
Jan-93
Jun-94
Oct-95
Mar-97
Jul-98
Dec-99
Apr-01
Sep-02

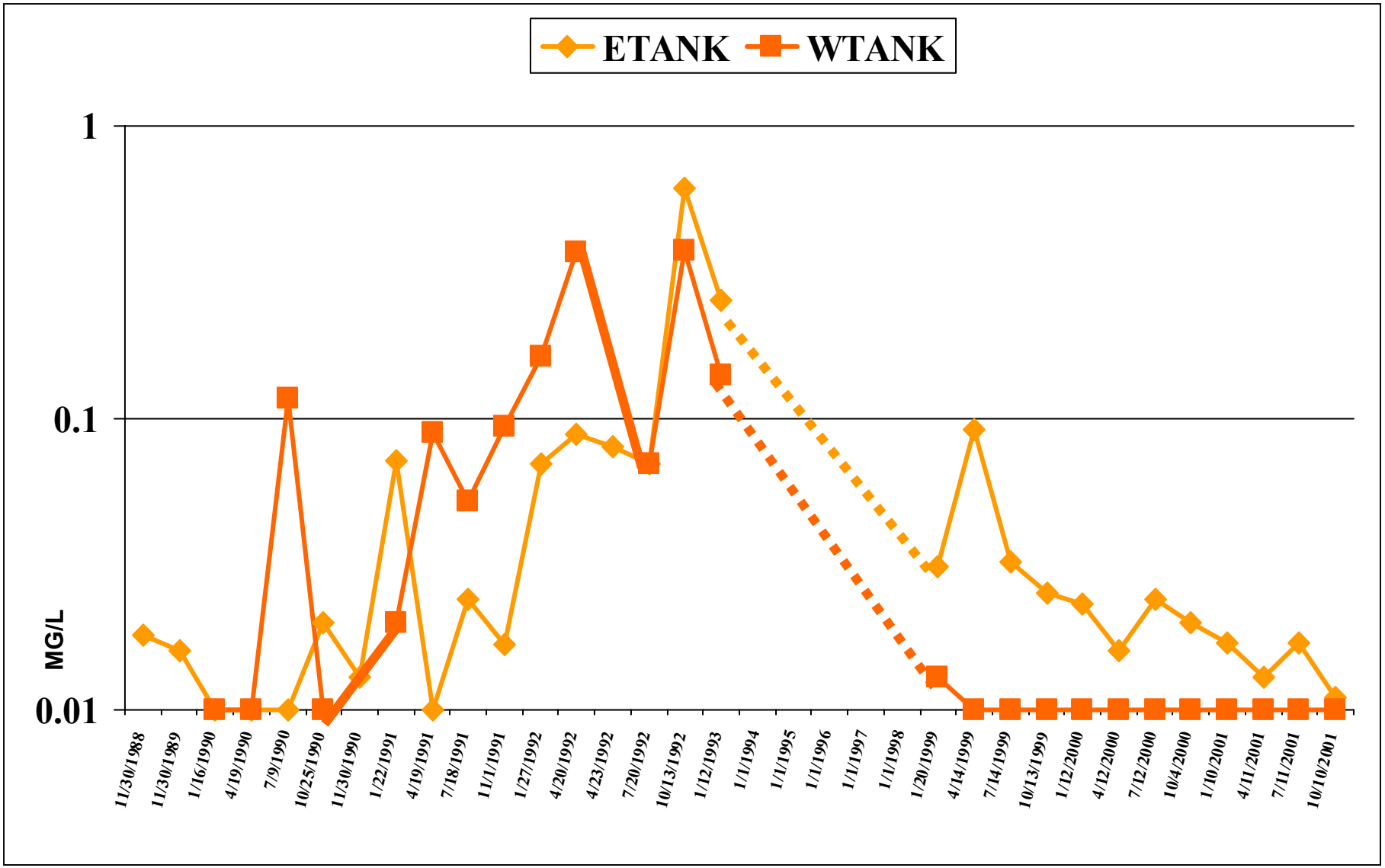

Leachate BOD / COD Ratio
10.00
1.00
0.10
0.01
BOD / COD
Dec-88
May-90
Sep-91
Jan-93
Jun-94
Oct-95
Mar-97
Jul-98
Dec-99
Apr-01
Sep-02
Date


Combined Total Leachate Generation
Quantity (gallons/year)
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
Year

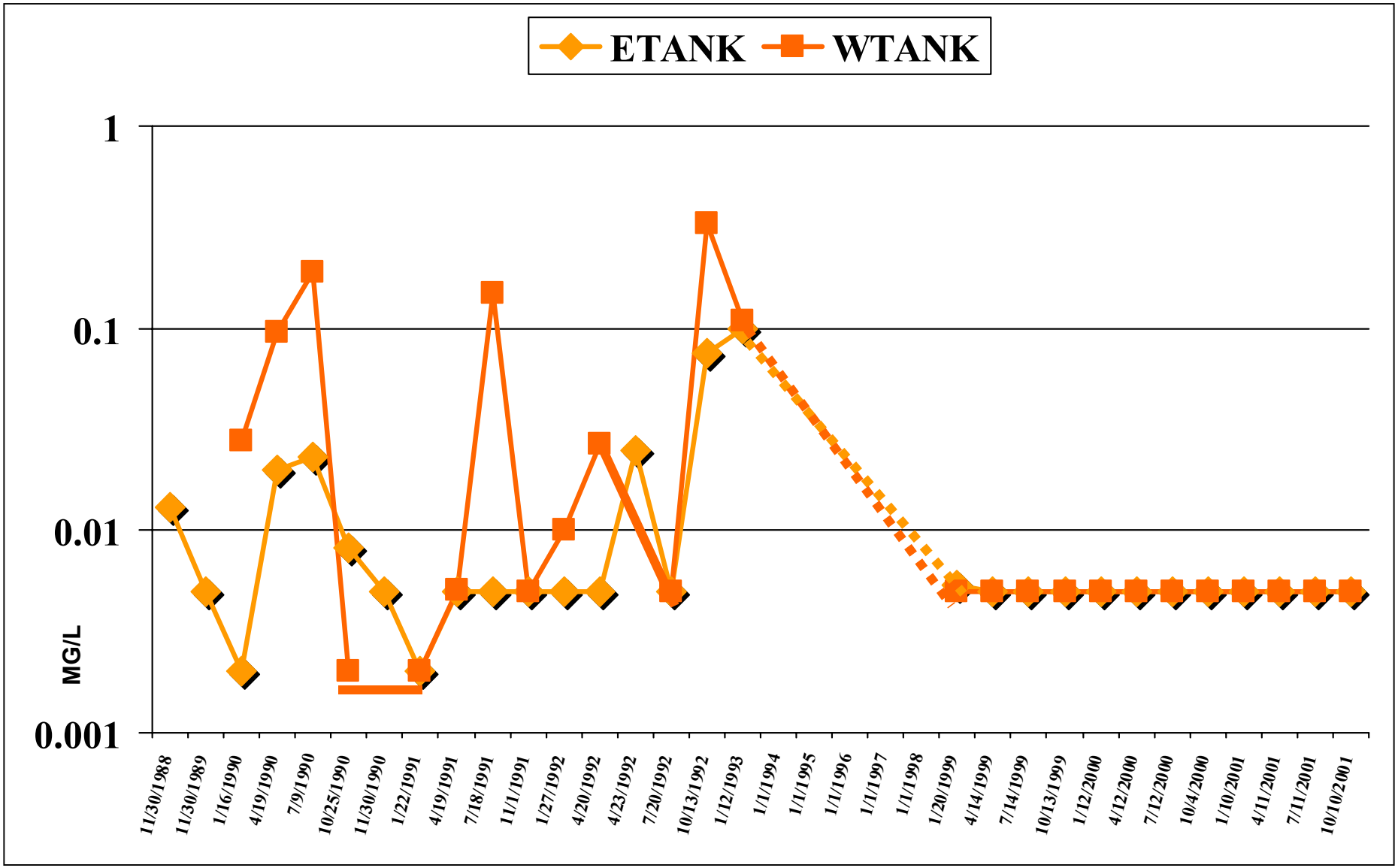
BARIUM


ETANK
WTANK
100
10
1
0.1
MG/L
11/30/1989
1/16/1990
4/19/1990
7/9/1990
10/25/1990
11/30/1990
1/22/1991
4/19/1991
7/18/1991
11/1/1991
1/27/1992
4/20/1992
4/23/1992
7/20/1992
10/13/1992
12/30/1993
1/12/1993
1/1/1994
1/1/1995
1/1/1996
1/1/1997
1/1/1998
1/20/1999
4/14/1999
7/14/1999
10/13/1999
1/12/2000
4/12/2000
7/12/2000
10/4/2000
1/10/2001
4/11/2001
7/11/2001
10/10/2001

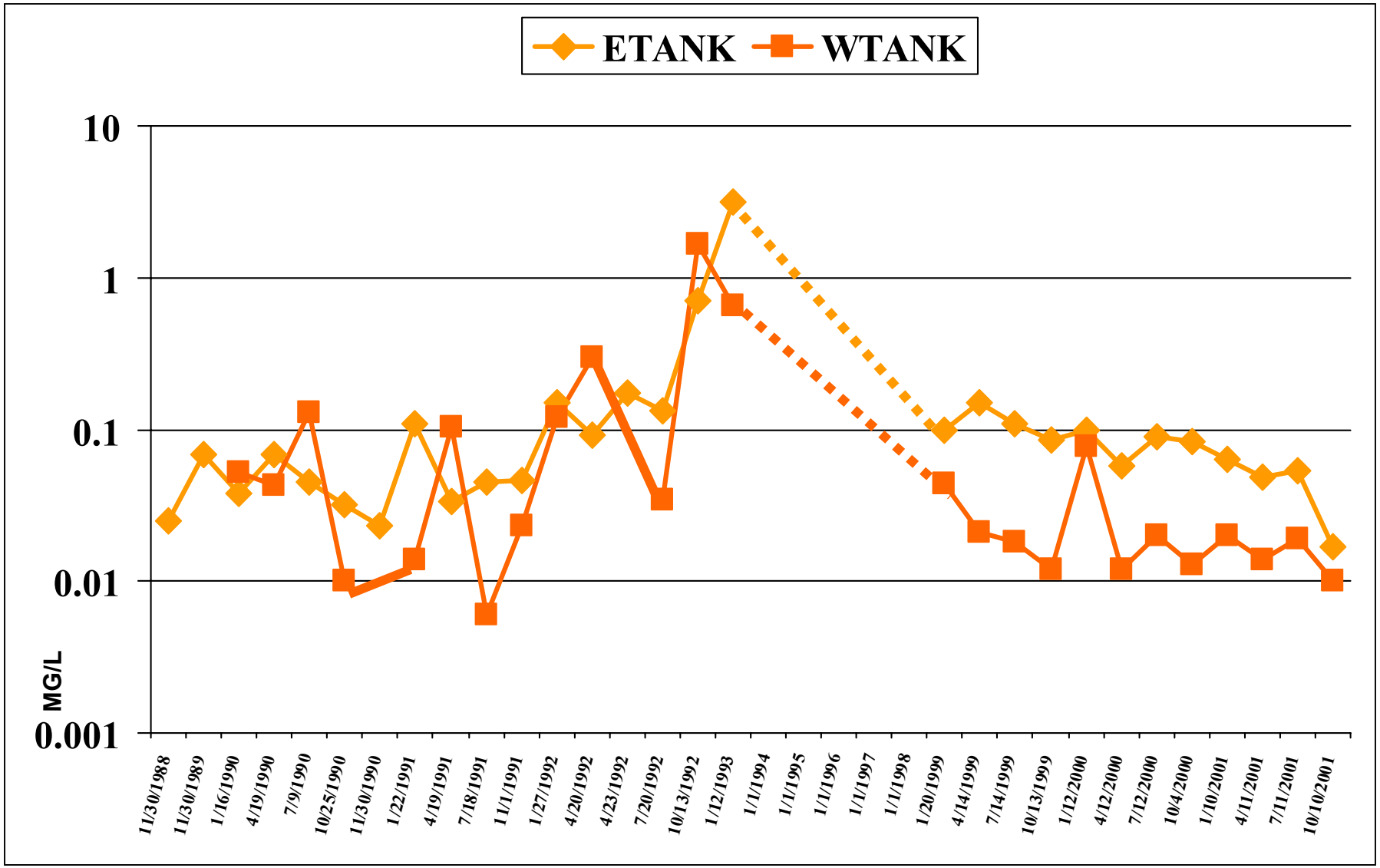
ARSENIC


ETANK
WTANK
1
0.1
0.01
MG/L
11/30/1988
11/30/1989
1/16/1990
4/19/1990
7/9/1990
10/25/1990
11/30/1990
1/22/1991
4/19/1991
7/18/1991
11/1/1991
1/27/1992
4/20/1992
4/23/1992
7/20/1992
10/13/1992
1/12/1993
1/1/1994
1/1/1995
1/1/1996
1/1/1997
1/1/1998
1/20/1999
4/14/1999
7/14/1999
10/13/1999
1/12/2000
4/12/2000
7/12/2000
10/4/2000
1/10/2001
4/11/2001
7/11/2001
10/10/2001

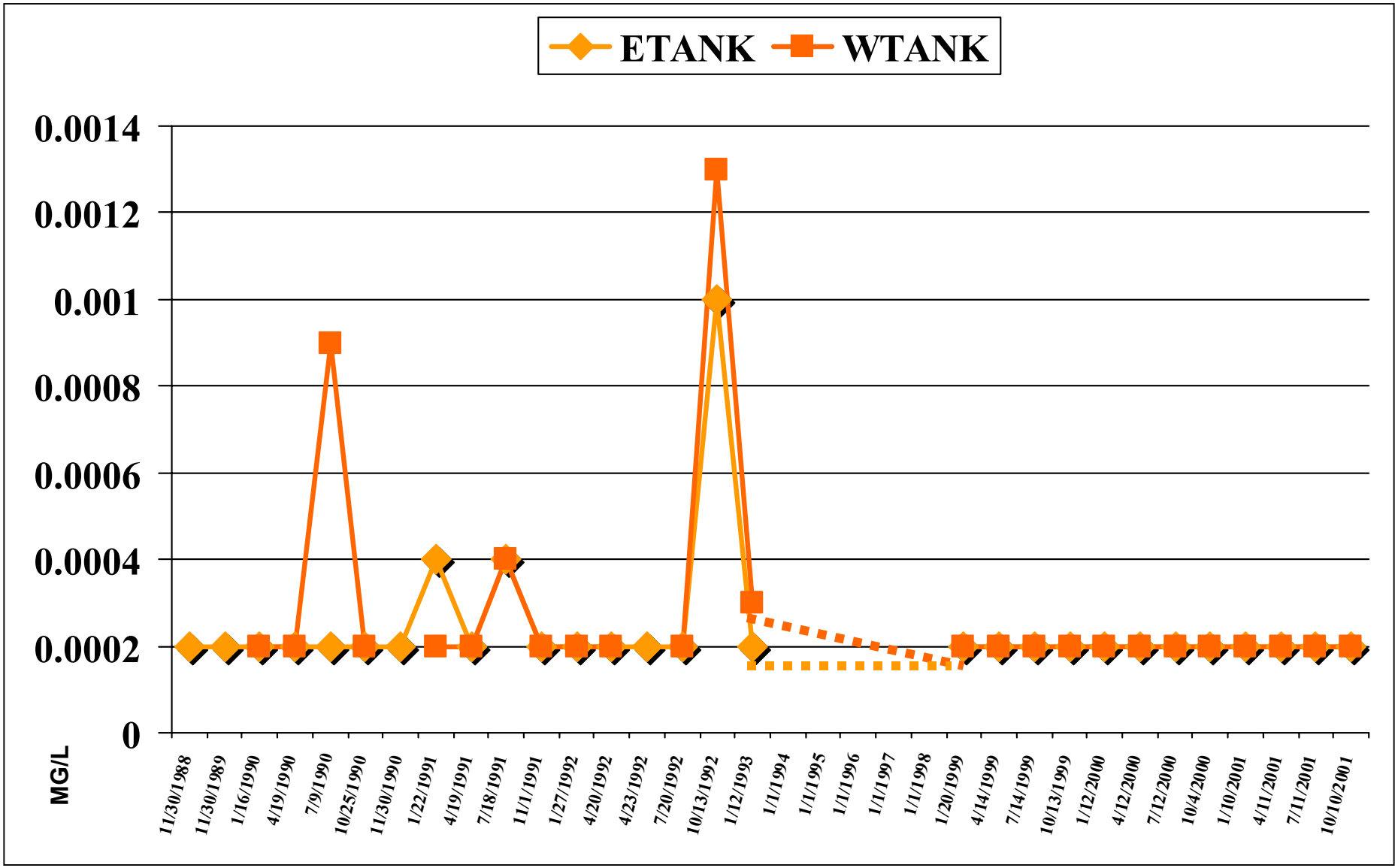
CADMIUM


ETANK
WTANK
1
0.1
0.01
0.001
MG/L
11/30/1988
11/30/1989
1/16/1990
4/19/1990
7/9/1990
10/25/1990
11/30/1990
1/22/1991
4/19/1991
7/18/1991
11/1/1991
1/27/1992
4/20/1992
4/23/1992
7/20/1992
10/13/1992
1/12/1993
1/1/1994
1/1/1995
1/1/1996
1/1/1997
1/1/1998
1/20/1999
4/14/1999
7/14/1999
10/13/1999
1/12/2000
4/12/2000
7/12/2000
10/4/2000
1/10/2001
4/11/2001
7/11/2001
10/10/2001

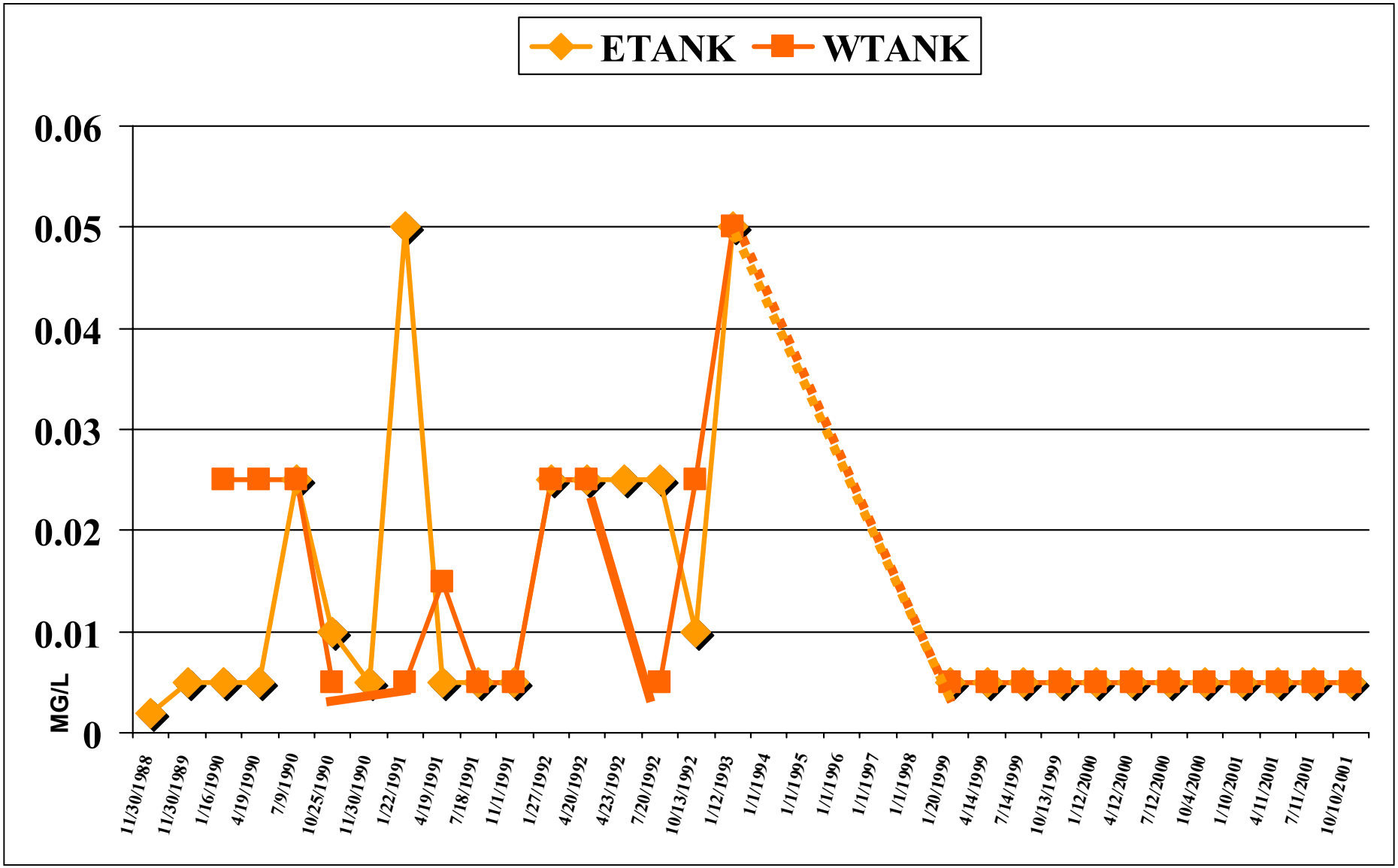
CHROMIUM


ETANK
WTANK
10
1
0.1
0.01
0.001
MG/L
11/30/1988
11/30/1989
1/16/1990
4/19/1990
7/9/1990
10/25/1990
11/30/1990
1/22/1991
4/19/1991
7/18/1991
11/1/1991
1/27/1992
4/20/1992
4/23/1992
7/20/1992
10/13/1992
1/12/1993
1/1/1994
1/1/1995
1/1/1996
1/1/1997
1/1/1998
1/20/1999
4/14/1999
7/14/1999
10/13/1999
1/12/2000
4/12/2000
7/12/2000
10/4/2000
1/10/2001
4/11/2001
7/11/2001
10/10/2001

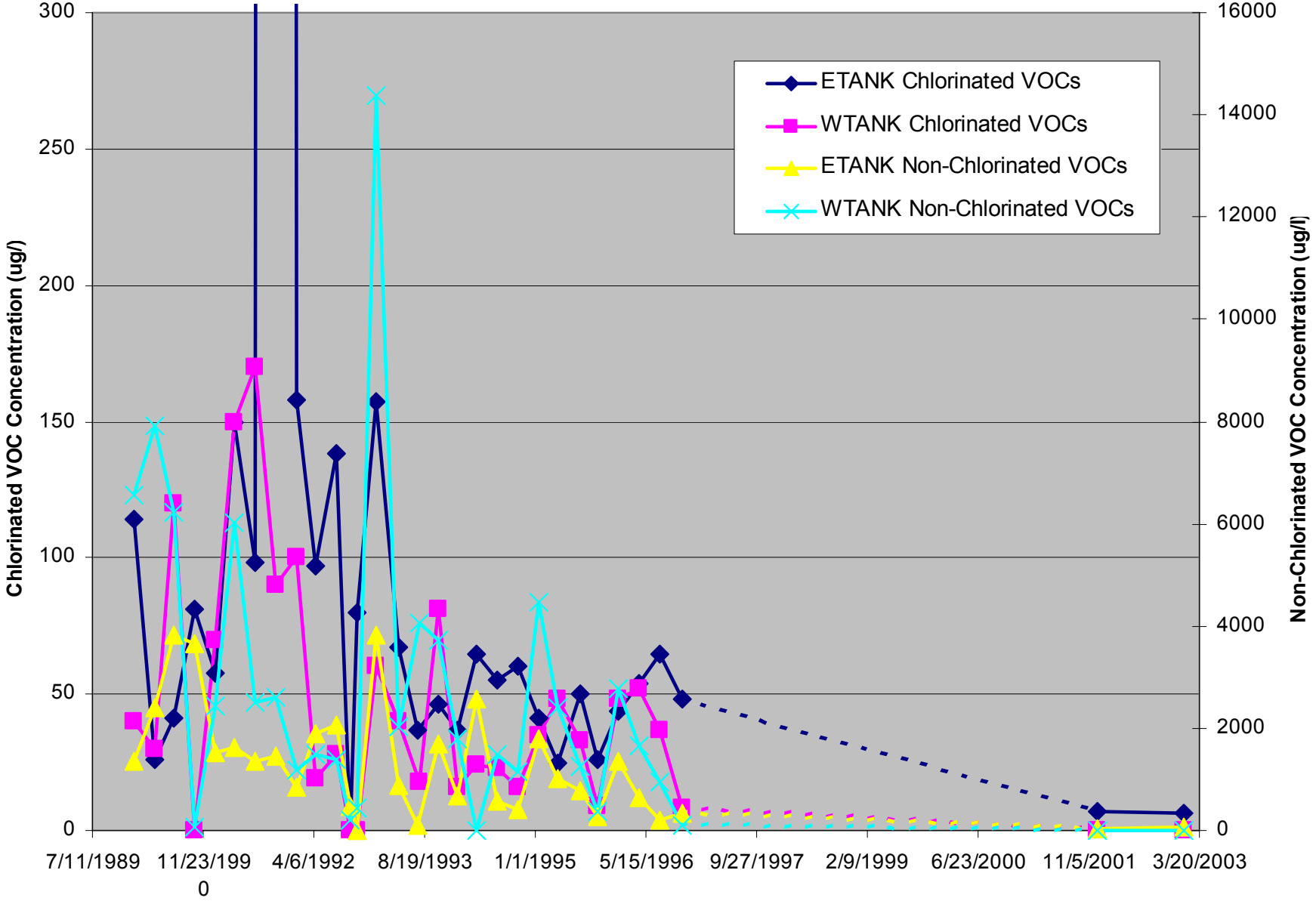
MERCURY

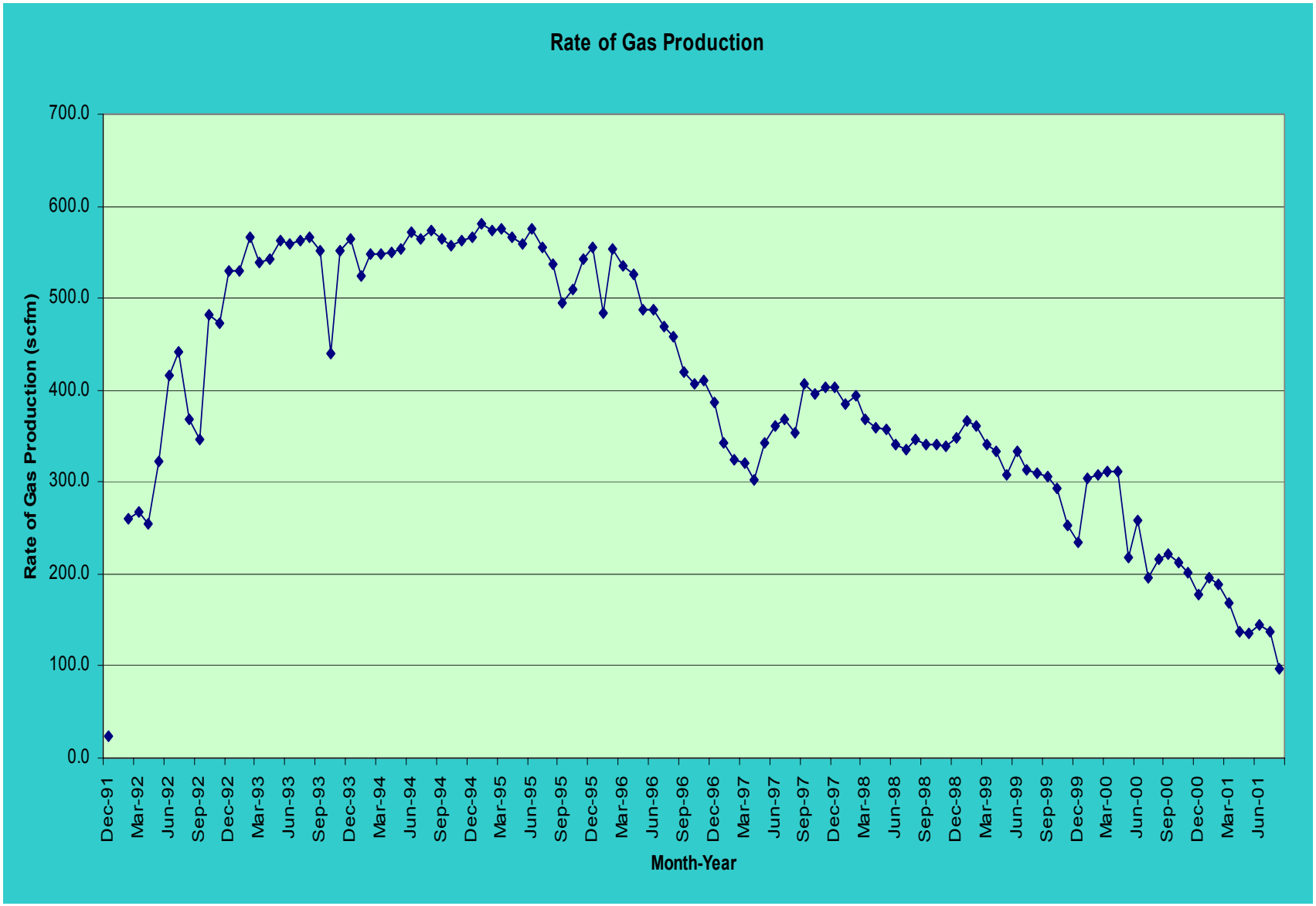

ETANK
WTANK
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
MG/L
11/30/1988
11/30/1989
1/16/1990
4/19/1990
7/9/1990
10/25/1990
11/30/1990
1/22/1991
4/19/1991
7/18/1991
11/1/1991
1/27/1992
4/20/1992
4/23/1992
7/20/1992
10/13/1992
1/12/1993
1/1/1994
1/1/1995
1/1/1996
1/1/1997
1/1/1998
1/20/1999
4/14/1999
7/14/1999
10/13/1999
1/12/2000
4/12/2000
7/12/2000
10/4/2000
1/10/2001
4/11/2001
7/11/2001
10/10/2001

SELENIUM


ETANK
WTANK
0.06
0.05
0.04
0.03
0.02
0.01
0
MG/L
11/30/1988
11/30/1989
1/16/1990
4/19/1990
7/9/1990
10/25/1990
11/30/1990
1/22/1991
4/19/1991
7/18/1991
11/1/1991
1/27/1992
4/20/1992
4/23/1992
7/20/1992
10/13/1992
1/12/1993
1/1/1994
1/1/1995
1/1/1996
1/1/1997
1/1/1998
1/20/1999
4/14/1999
7/14/1999
10/13/1999
1/12/2000
4/12/2000
7/12/2000
10/4/2000
1/10/2001
4/11/2001
7/11/2001
10/10/2001

VOCs


ETANK Chlorinated VOCs
WTANK Chlorinated VOCs
ETANK Non-Chlorinated VOCs
WTANK Non-Chlorinated VOCs
Chlorinated VOC Concentration (ug/)
Non-Chlorinated VOC Concentration (ug/l)
300
250
200
150
100
50
0
16000
14000
12000
10000
8000
6000
4000
2000
0
7/11/1989
11/23/1990
4/6/1992
8/19/1993
1/1/1995
5/15/1996
9/27/1997
2/9/1999
6/23/2000
11/5/2001
3/20/2003


Rate of Gas Production
Rate of Gas Production (scfm)
700.0
600.0
500.0
400.0
300.0
200.0
100.0
0.0
Dec-91
Mar-92
Jun-92
Sep-92
Dec-92
Mar-93
Jun-93
Sep-93
Dec-93
Mar-94
Jun-94
Sep-94
Dec-94
Mar-95
Jun-95
Sep-95
Dec-95
Mar-96
Jun-96
Sep-96
Dec-96
Mar-97
Jun-97
Sep-97
Dec-97
Mar-98
Jun-98
Sep-98
Dec-98
Mar-99
Jun-99
Sep-99
Dec-99
Mar-00
Jun-00
Sep-00
Dec-00
Mar-01
Jun-01
Month-Year