Figure 4.4.1a
Mass Emission Loadings Total Suspended Solids

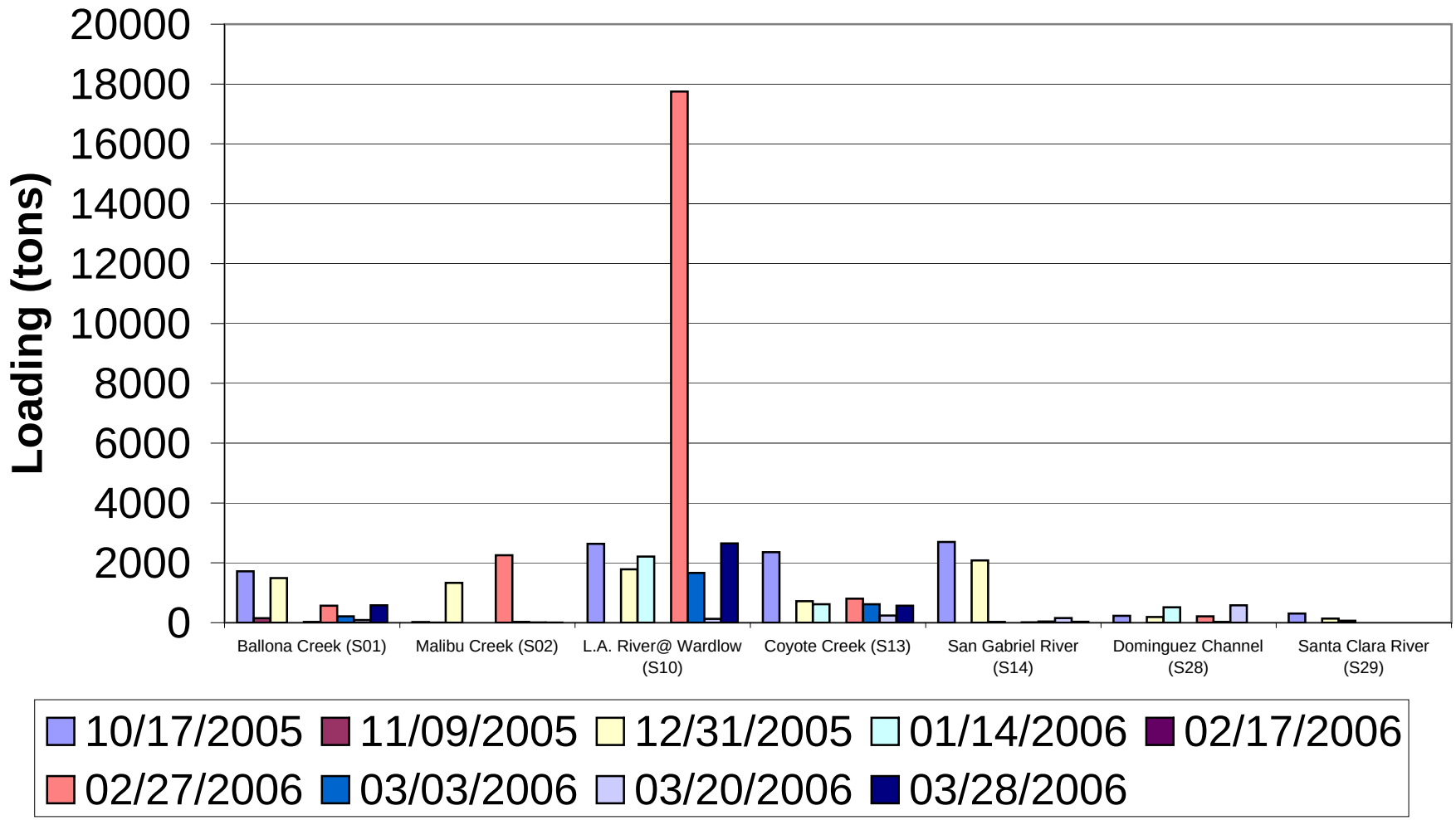


Figure 4.4.1b
Mass Emission Loadings Total Suspended Solids

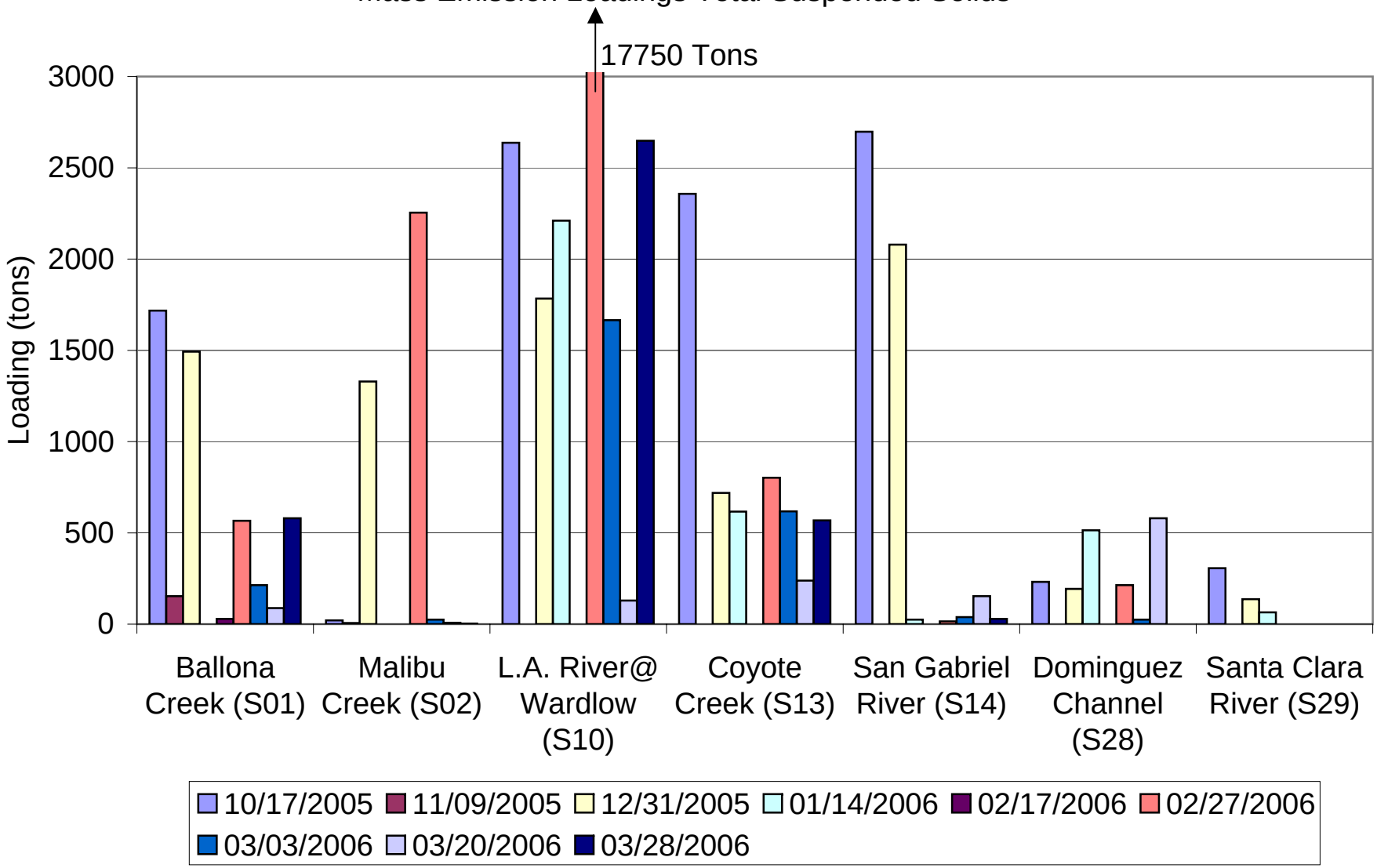
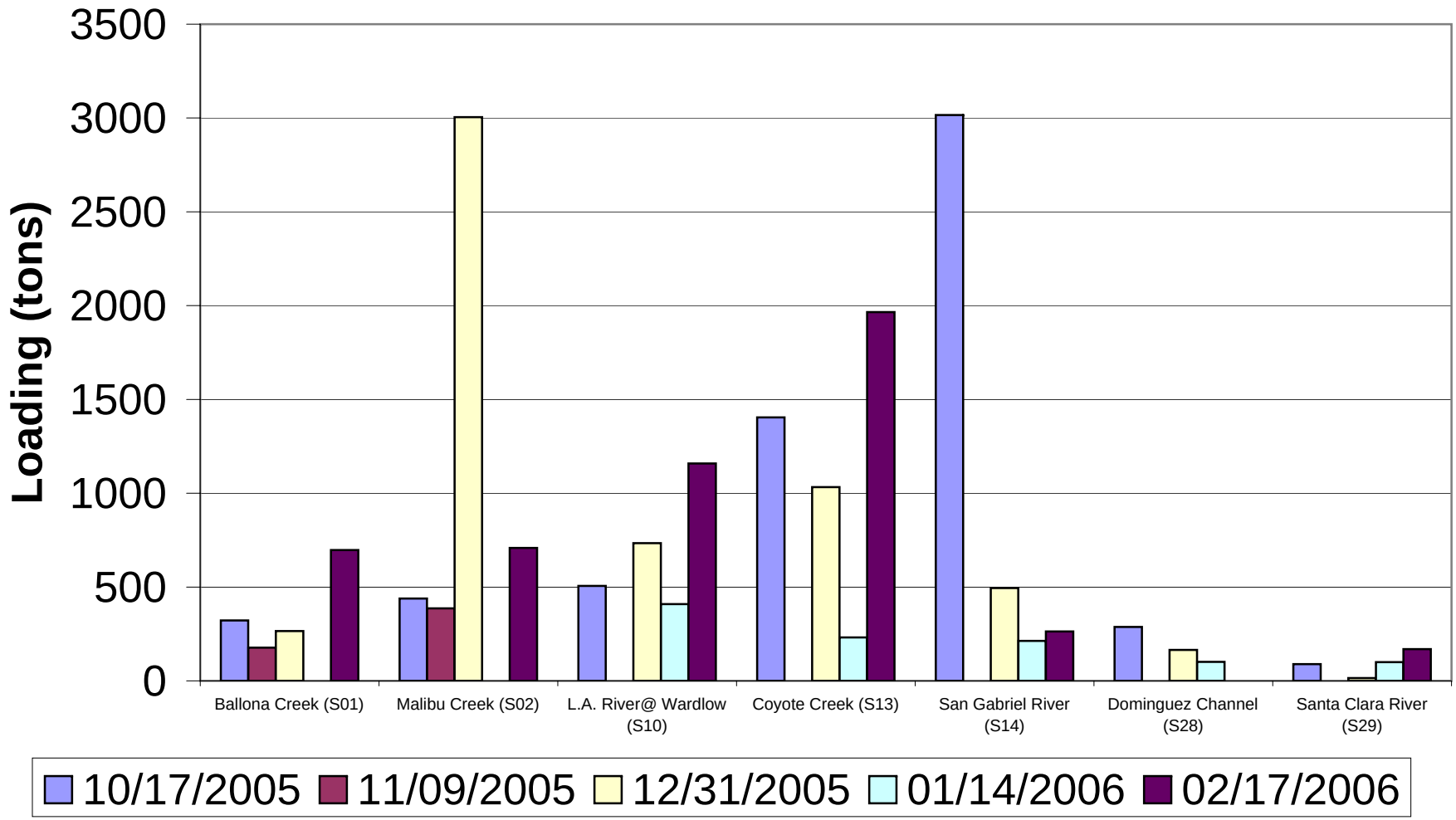


Figure 4.4.2
Mass Emission Loadings Total Dissolved Solids



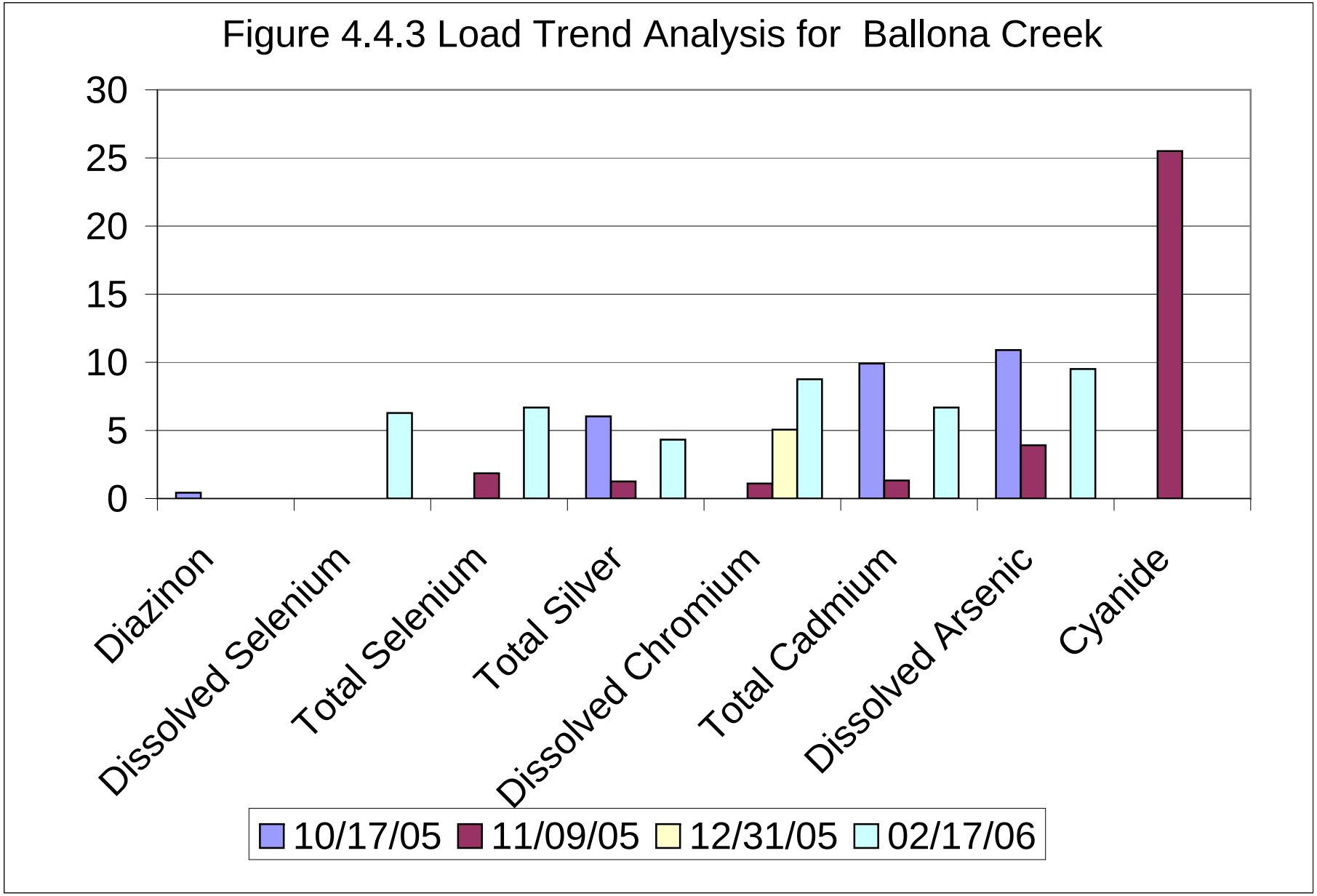


Figure 4.4.3 Load Trend Analysis for Ballona Creek
30
25
20
15
10
5
0
Diazinon
Dissolved Selenium
Total Selenium
Total Silver
Dissolved Chromium
Total Cadmium
Dissolved Arsenic
Cyanide
10/17/05
11/09/05
12/31/05
02/17/06

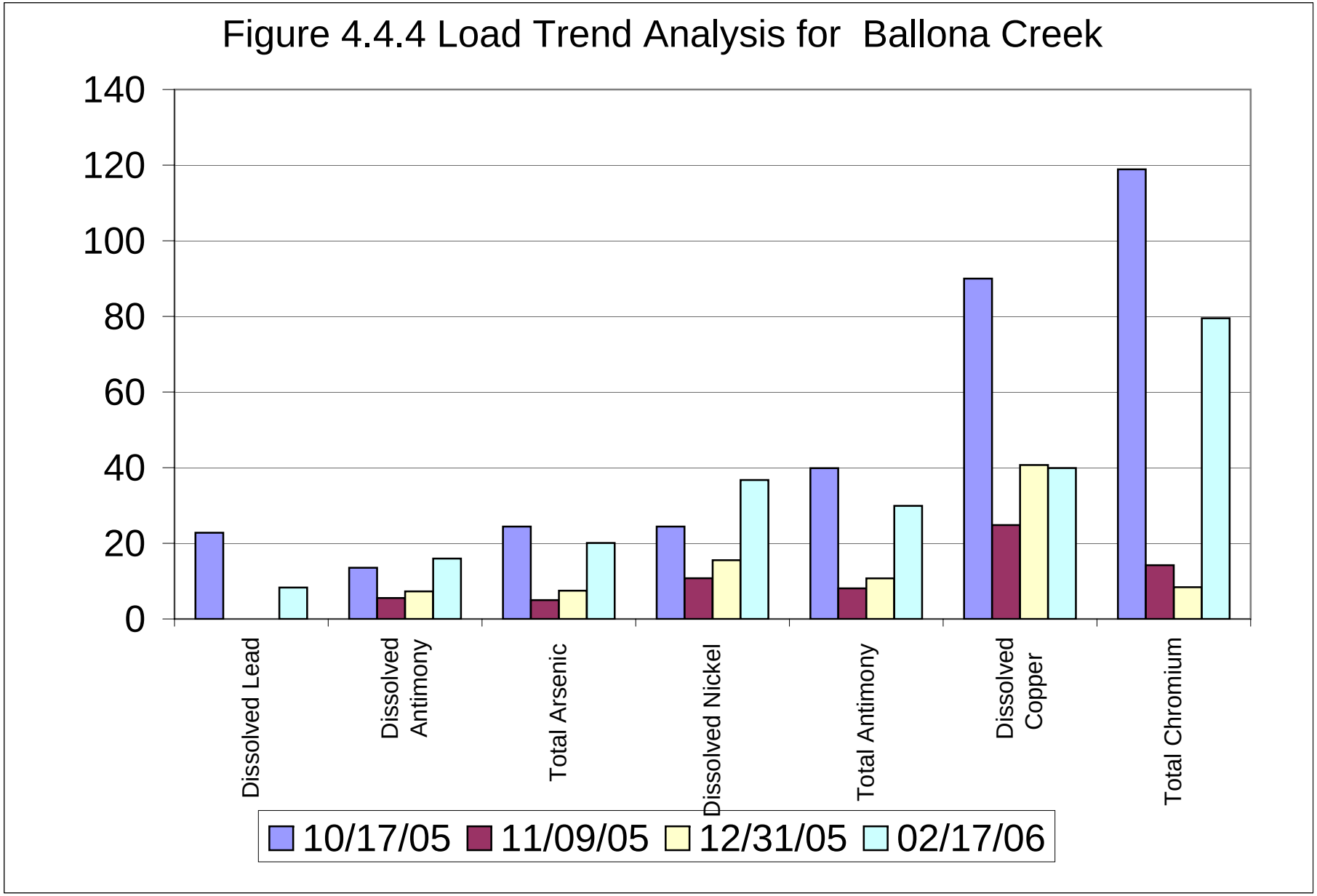


Figure 4.4.4 Load Trend Analysis for Ballona Creek
140
120
100
80
60
40
20
0
Dissolved Lead
Dissolved Antimony
Total Arsenic
Dissolved Nickel
Total Antimony
Dissolved Copper
Total Chromium
10/17/05
11/09/05
12/31/05
02/17/06

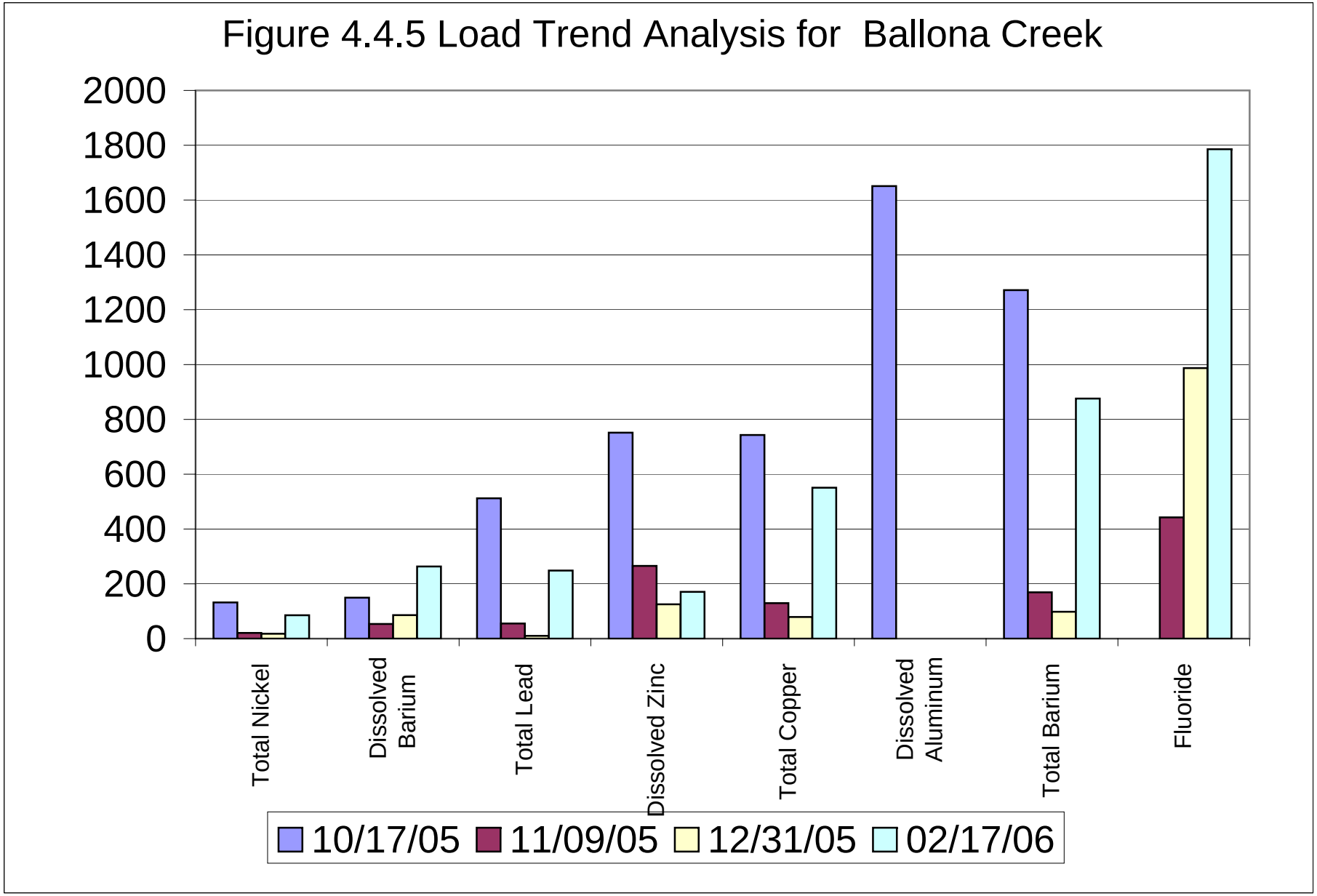


Figure 4.4.5 Load Trend Analysis for Ballona Creek
2000
1800
1600
1400
1200
1000
800
600
400
200
0
Total Nickel
Dissolved Barium
Total Lead
Dissolved Zinc
Total Copper
Dissolved Aluminum
Total Barium
Fluoride
10/17/05
11/09/05
12/31/05
02/17/06

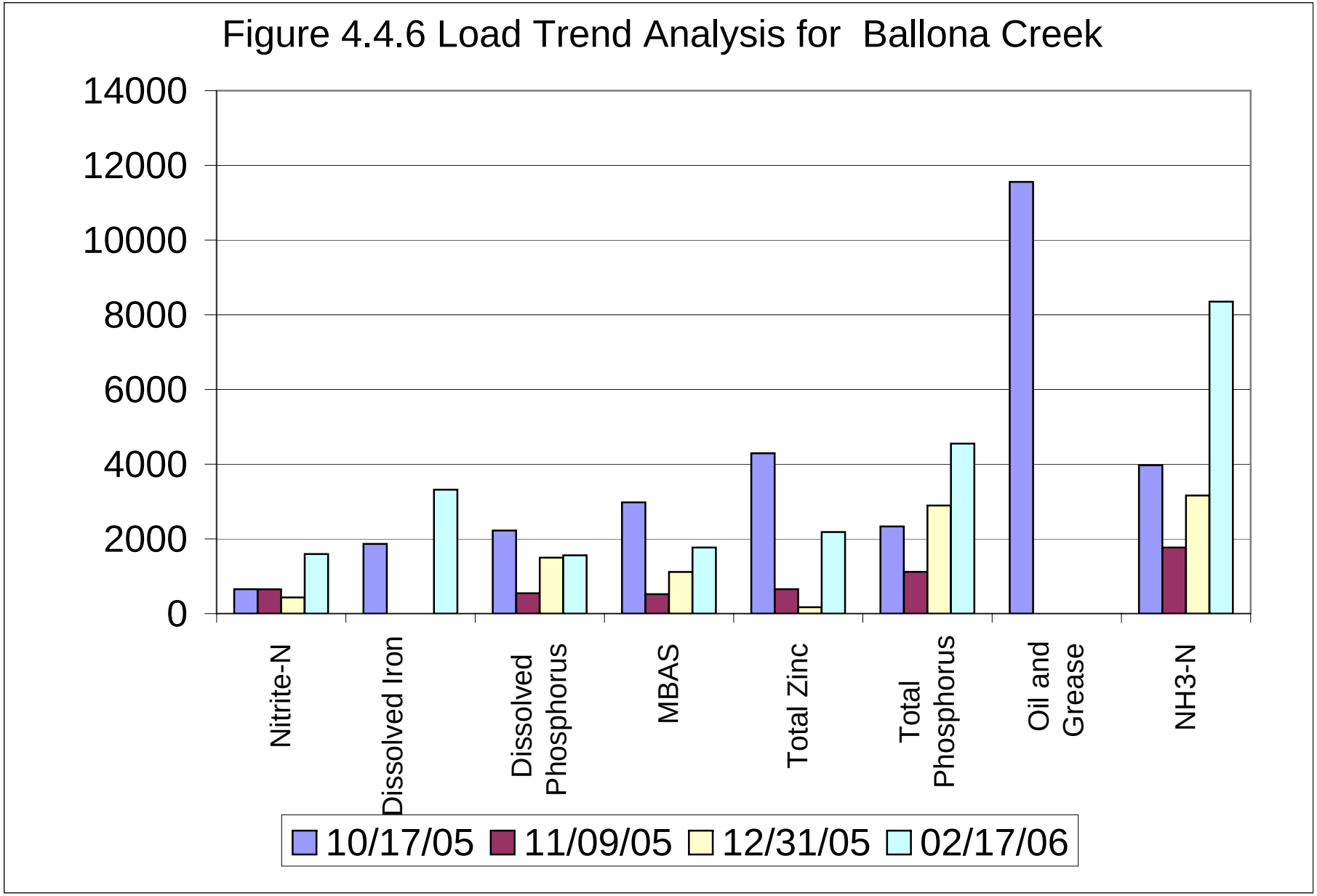


Figure 4.4.6 Load Trend Analysis for Ballona Creek
14000
12000
10000
8000
6000
4000
2000
0
Nitrite-N
Dissolved Iron
Dissolved Phosphorus
MBAS
Total Zinc
Total Phosphorus
Oil and Grease
NH3-N
10/17/05
11/09/05
12/31/05
02/17/06

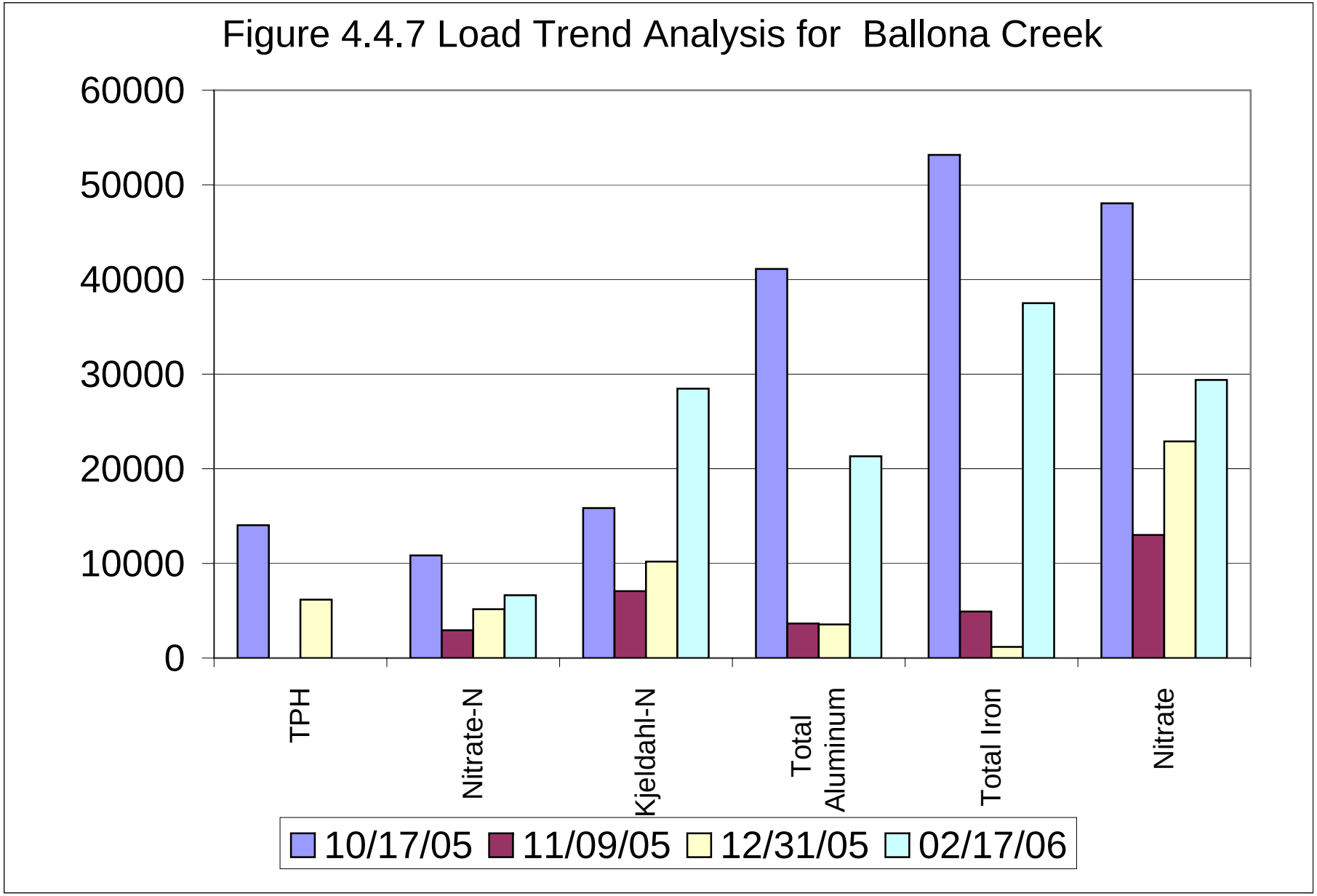


Figure 4.4.7 Load Trend Analysis for Ballona Creek
60000
50000
40000
30000
20000
10000
0
TPH
Nitrate-N
Kjeldahl-N
Total Aluminum
Total Iron
Nitrate
10/17/05
11/09/05
12/31/05
02/17/06

Figure 4.4.8 Load Trend Analysis for Ballona Creek

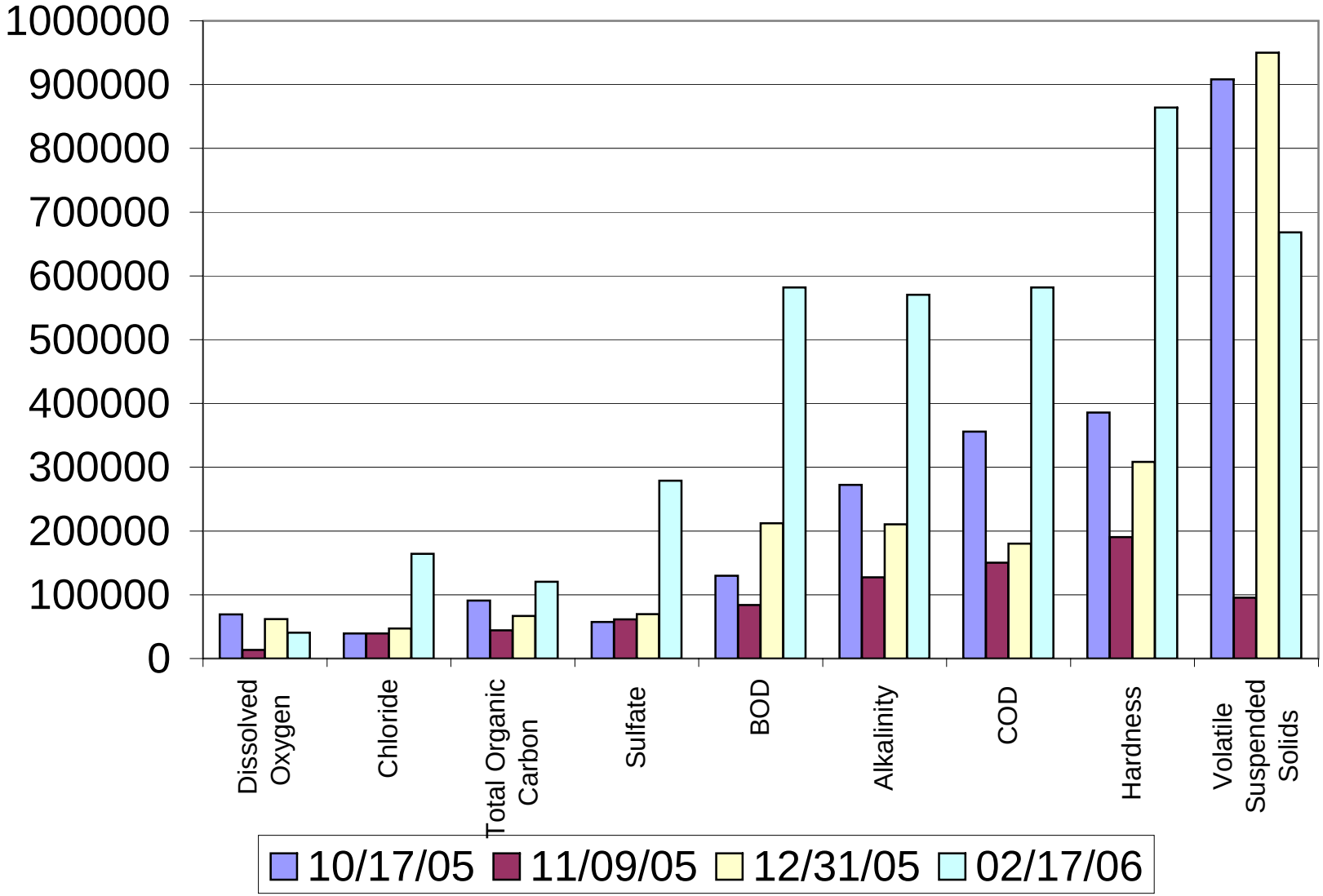
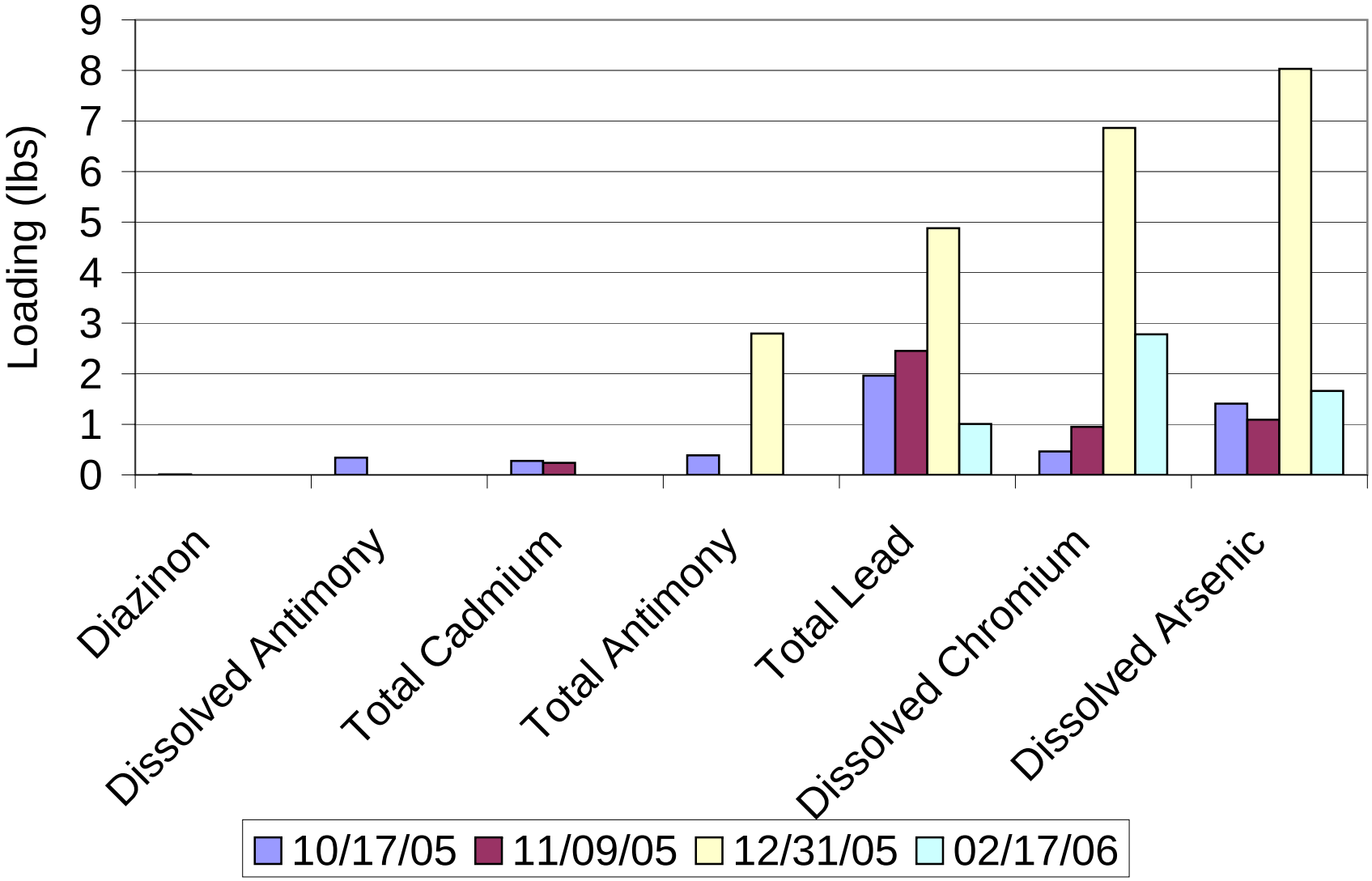


Figure 4.4.9 Load Trend Analysis for Malibu Creek



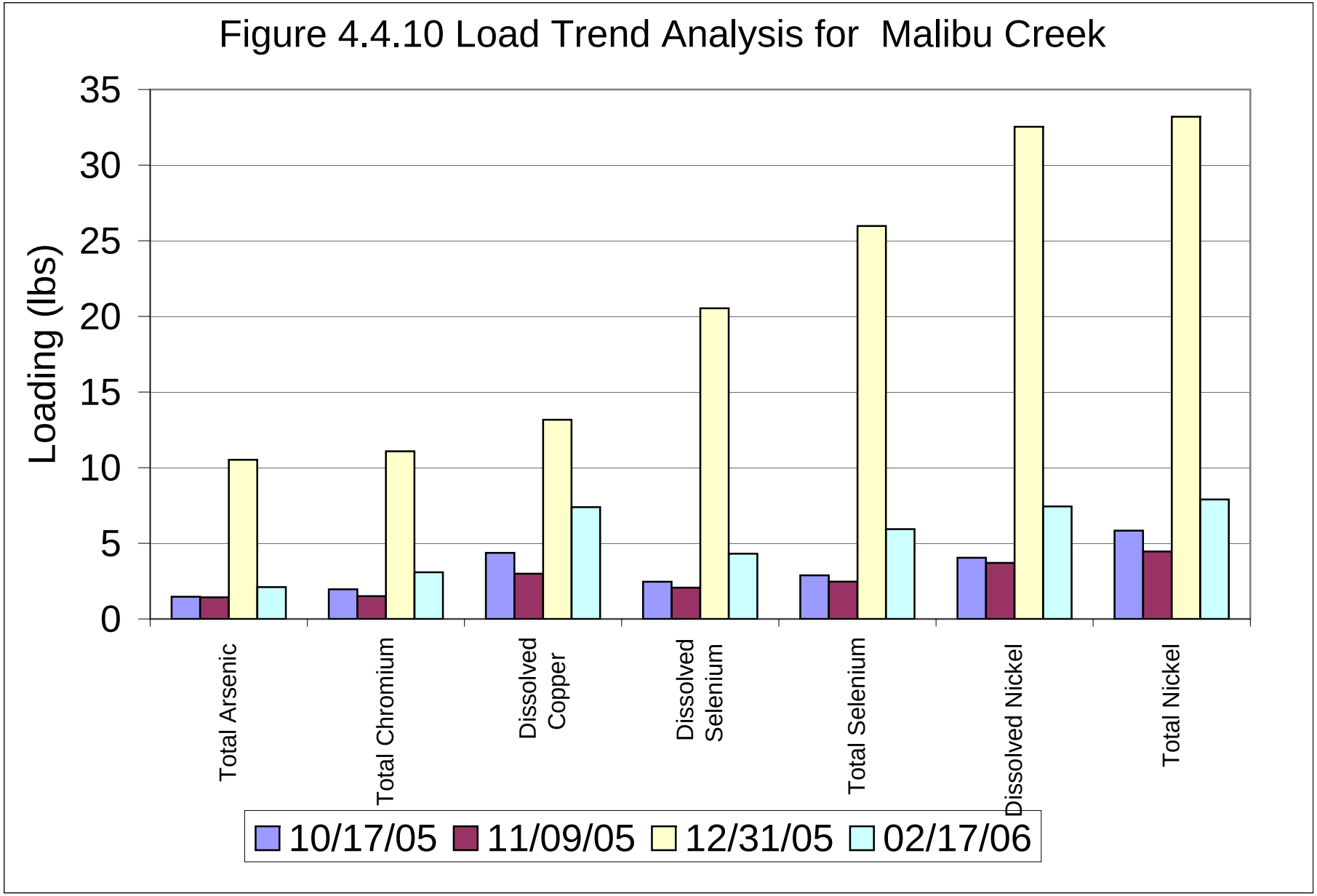


Figure 4.4.10 Load Trend Analysis for Malibu Creek
Loading (lbs)
35
30
25
20
15
10
5
0
Total Arsenic
Total Chromium
Dissolved Copper
Dissolved Selenium
Total Selenium
Dissolved Nickel
Total Nickel
10/17/05
11/09/05
12/31/05
02/17/06

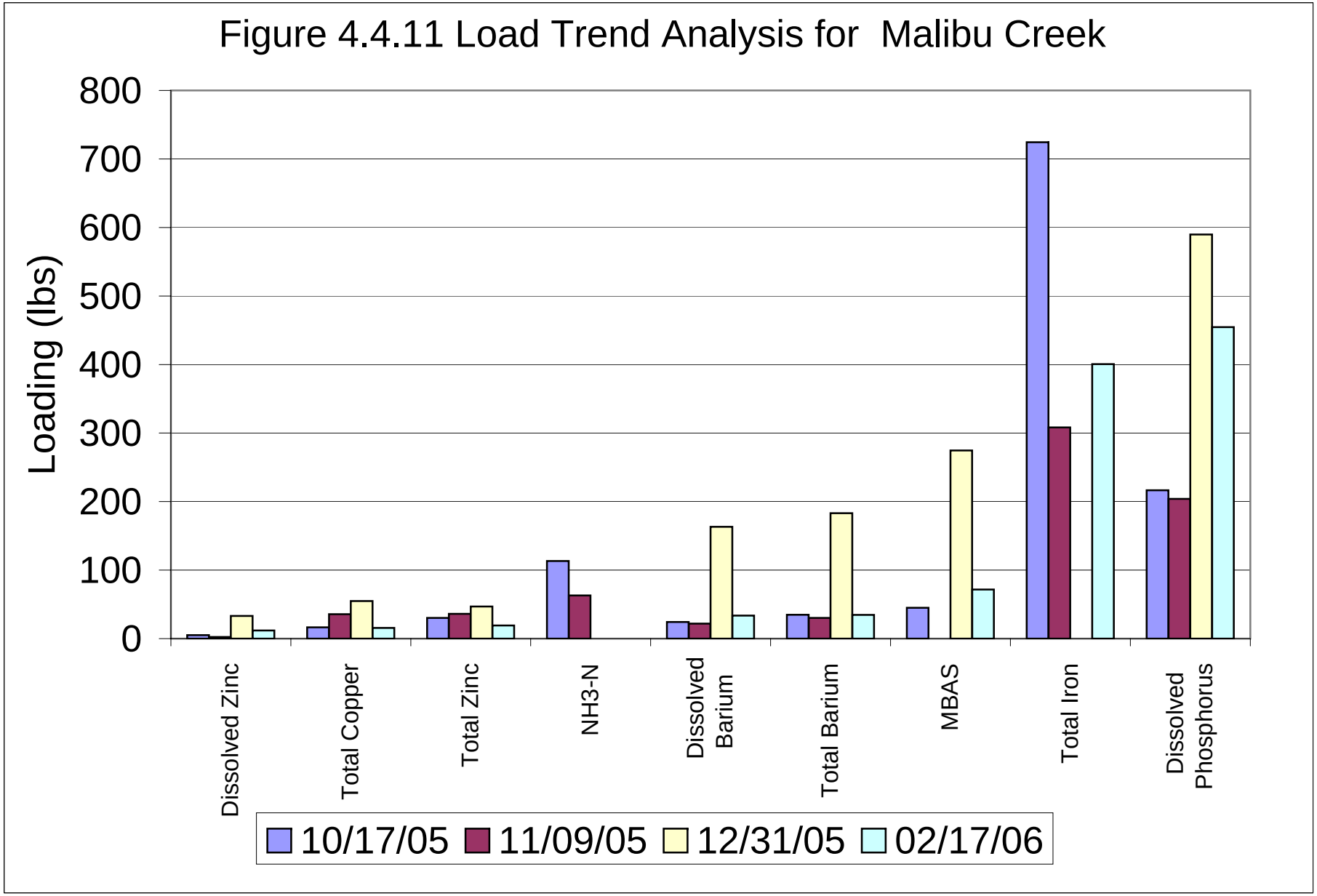


Figure 4.4.11 Load Trend Analysis for Malibu Creek
Loading (lbs)
800
700
600
500
400
300
200
100
0
Dissolved Zinc
Total Copper
Total Zinc
NH3-N
Dissolved Barium
Total Barium
MBAS
Total Iron
Dissolved Phosphorus
10/17/05
11/09/05
12/31/05
02/17/06

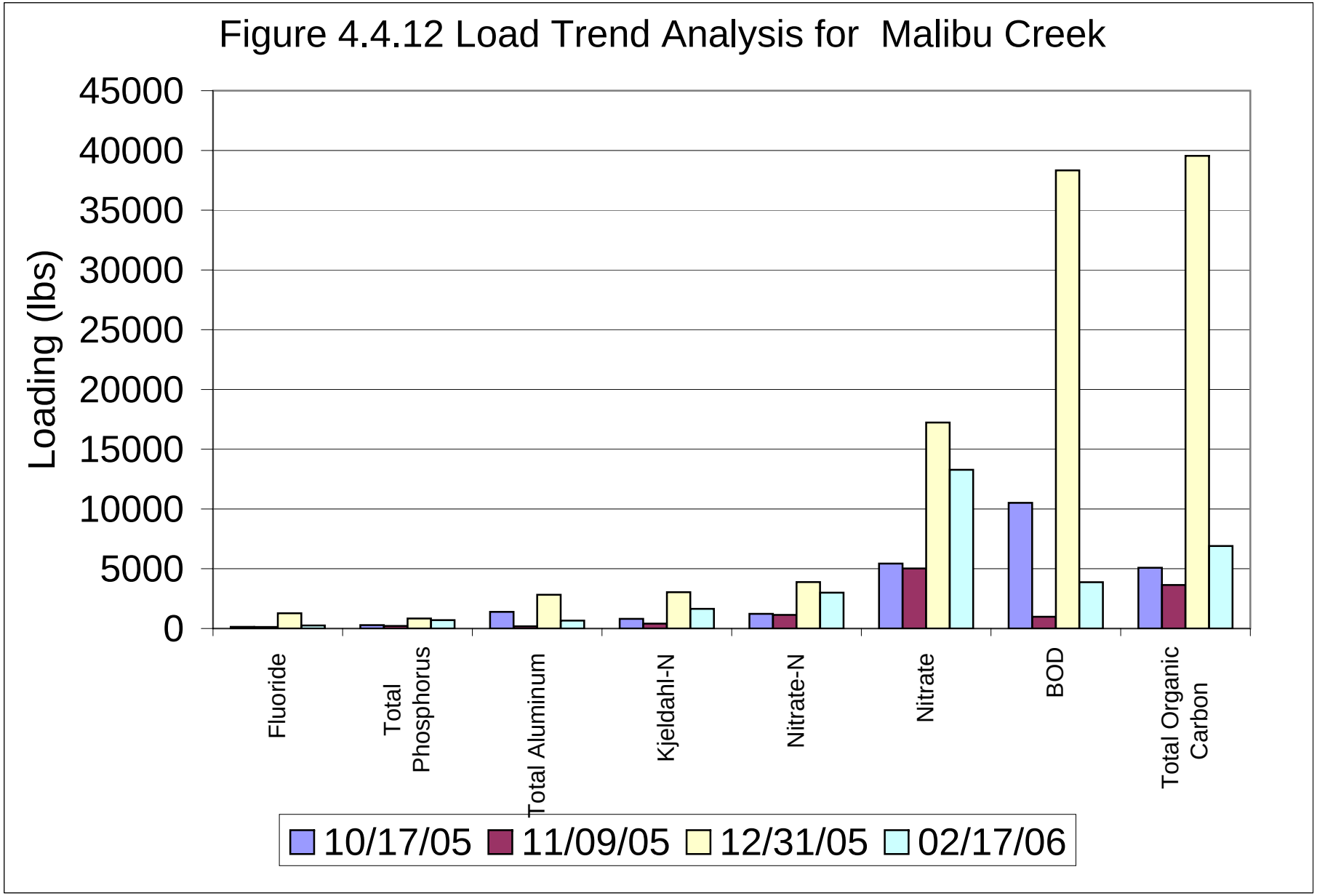


Figure 4.4.12 Load Trend Analysis for Malibu Creek
Loading (lbs)
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
Fluoride
Total Phosphorus
Total Aluminum
Kjeldahl-N
Nitrate-N
Nitrate
BOD
Total Organic Carbon
10/17/05
11/09/05
12/31/05
02/17/06

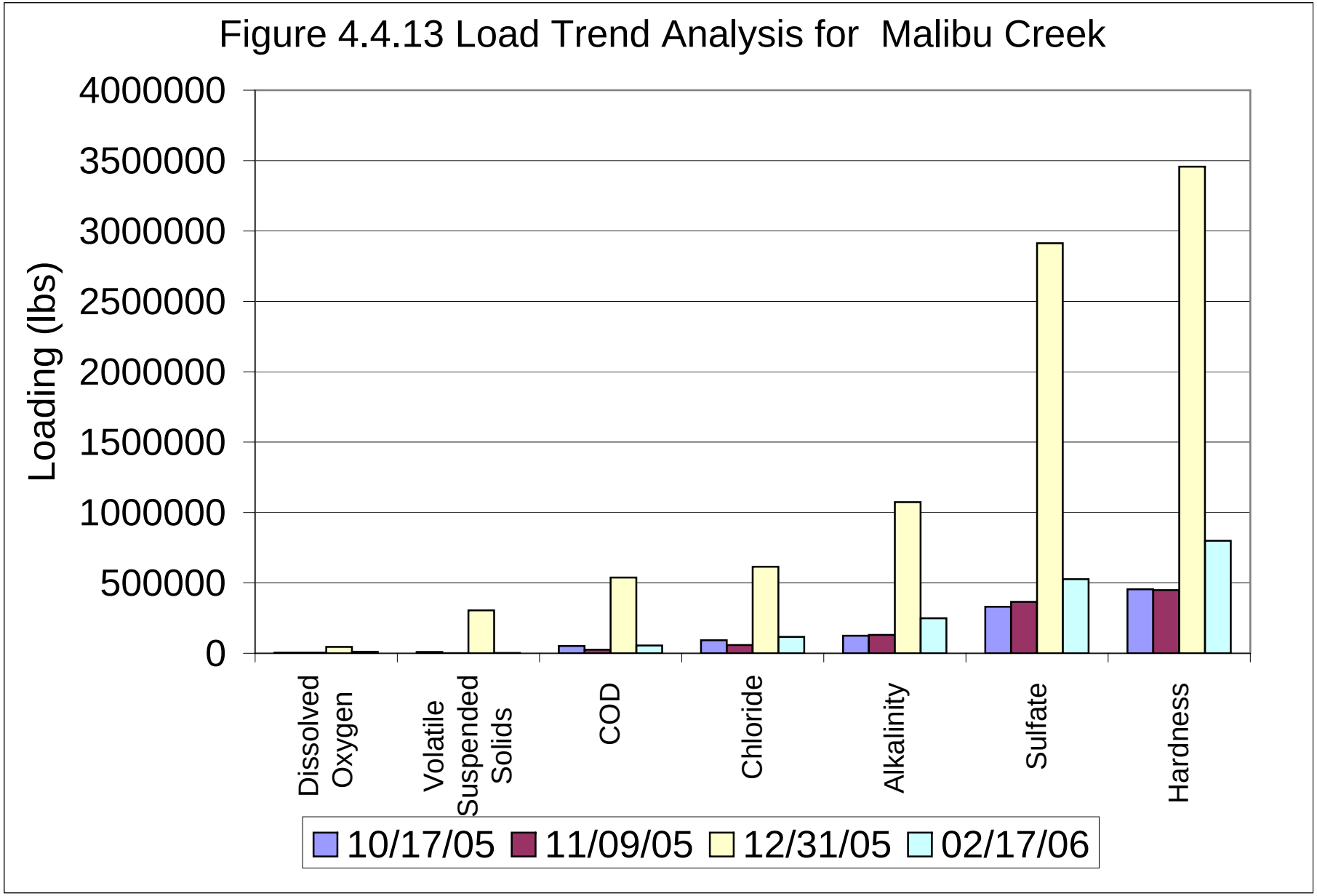


Figure 4.4.13 Load Trend Analysis for Malibu Creek
Loading (lbs)
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
Dissolved Oxygen
Volatile Suspended Solids
COD
Chloride
Alkalinity
Sulfate
Hardness
10/17/05
11/09/05
12/31/05
02/17/06

Figure 4.4.14 Load Trend Analysis for Malibu Creek

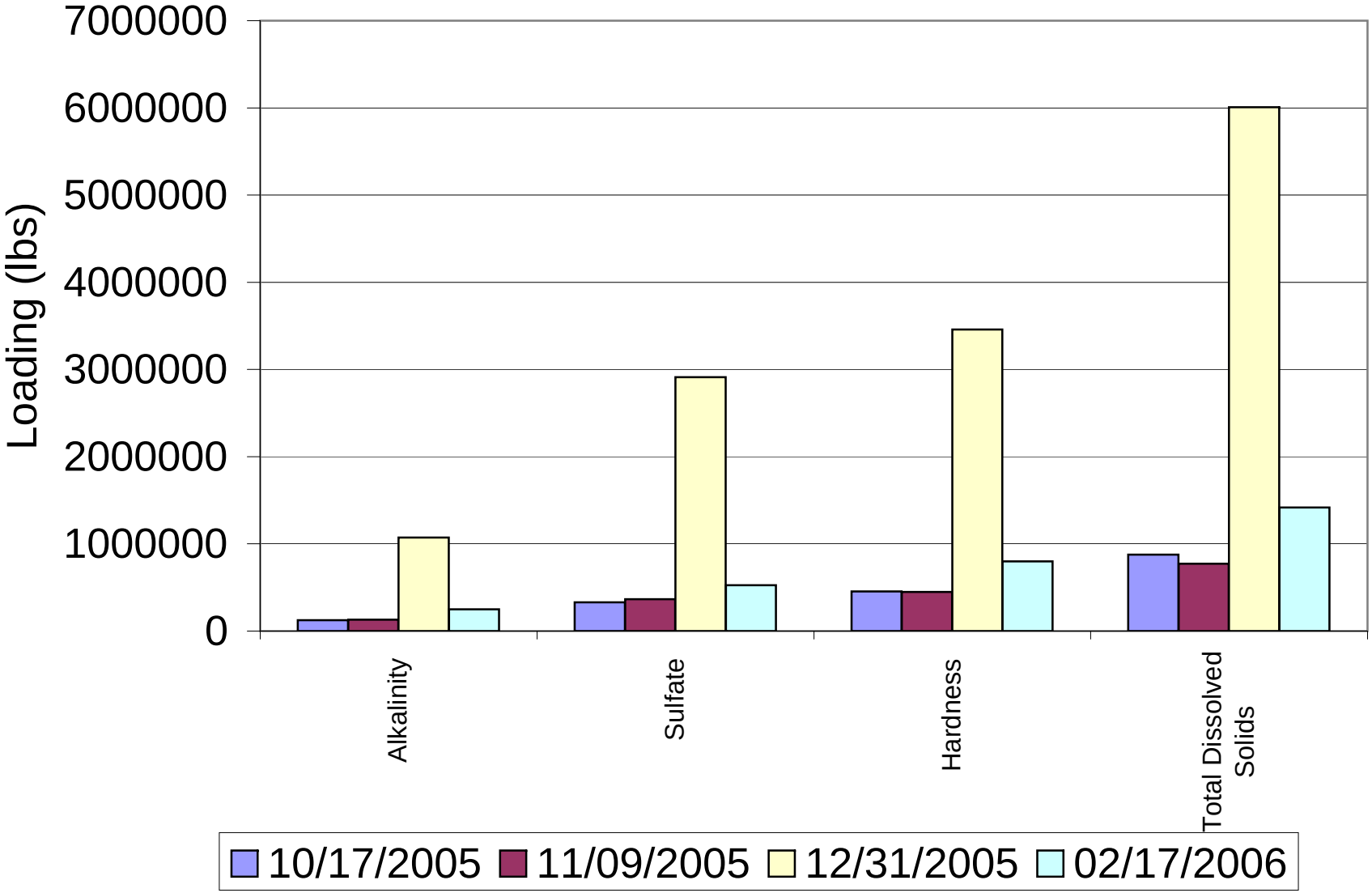
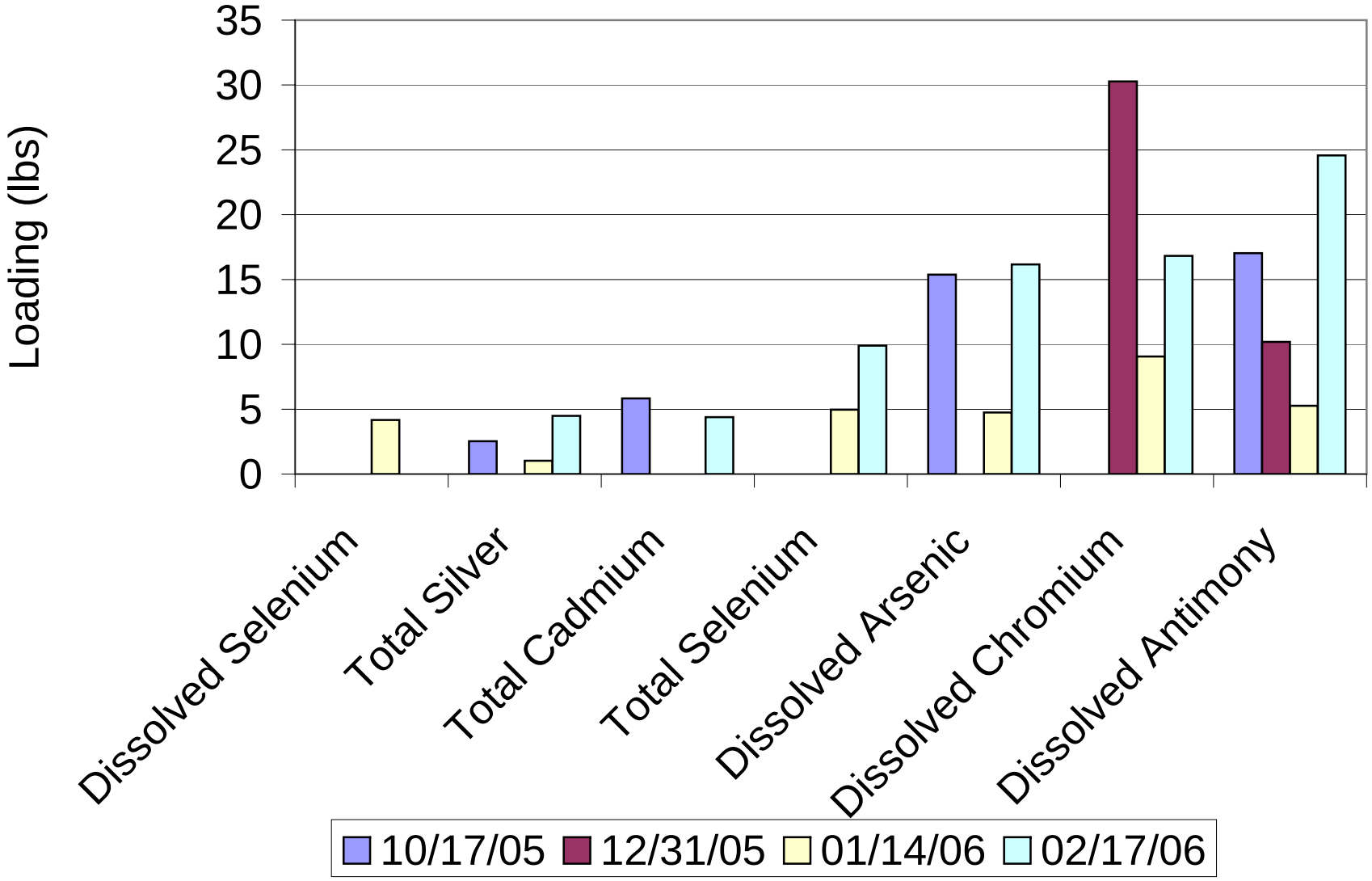


Figure 4.4.15 Load Trend Analysis for Los Angeles River



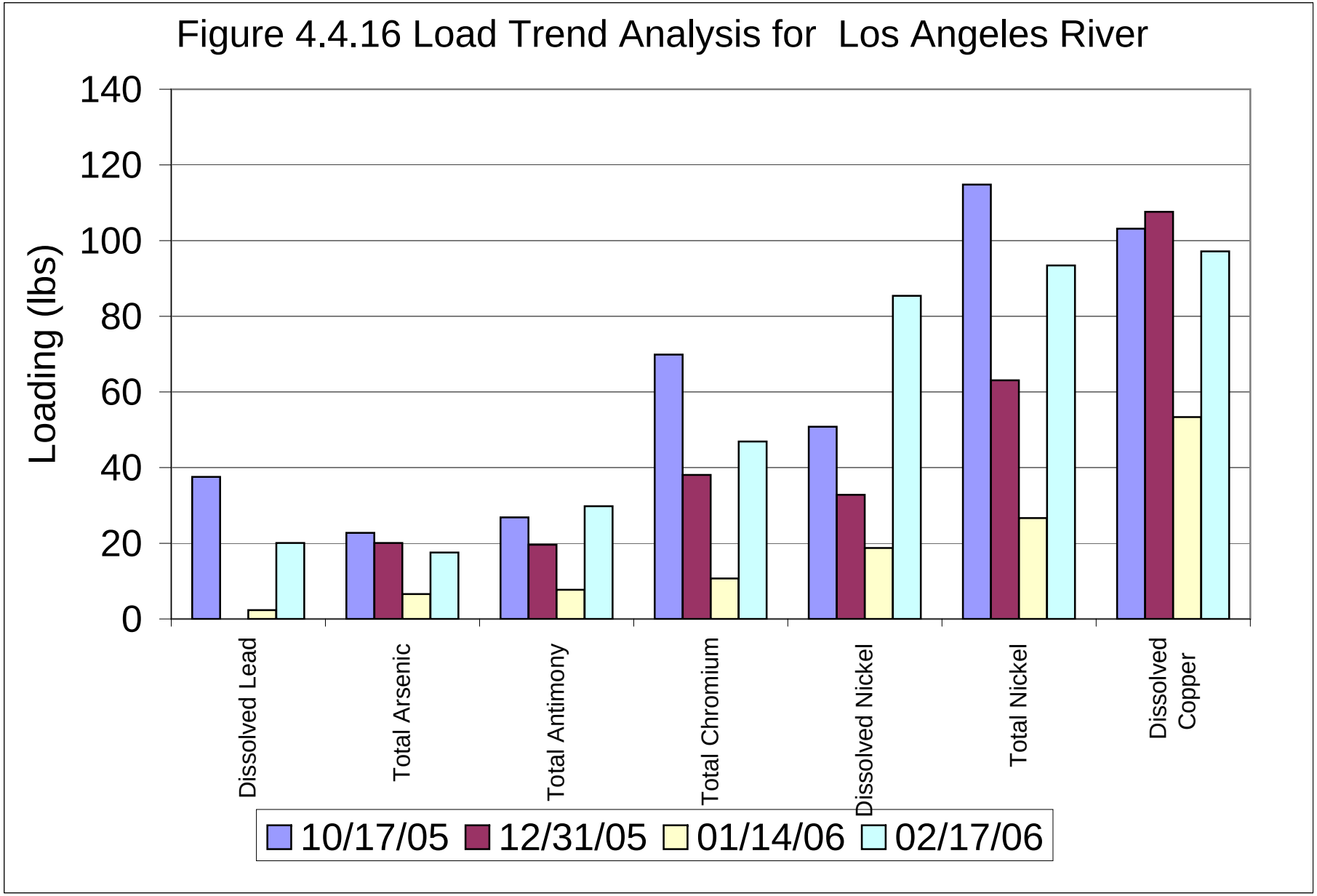


Figure 4.4.16 Load Trend Analysis for Los Angeles River
Loading (lbs)
140
120
100
80
60
40
20
0
Dissolved Lead
Total Arsenic
Total Antimony
Total Chromium
Dissolved Nickel
Total Nickel
Dissolved Copper
10/17/05
12/31/05
01/14/06
02/17/06

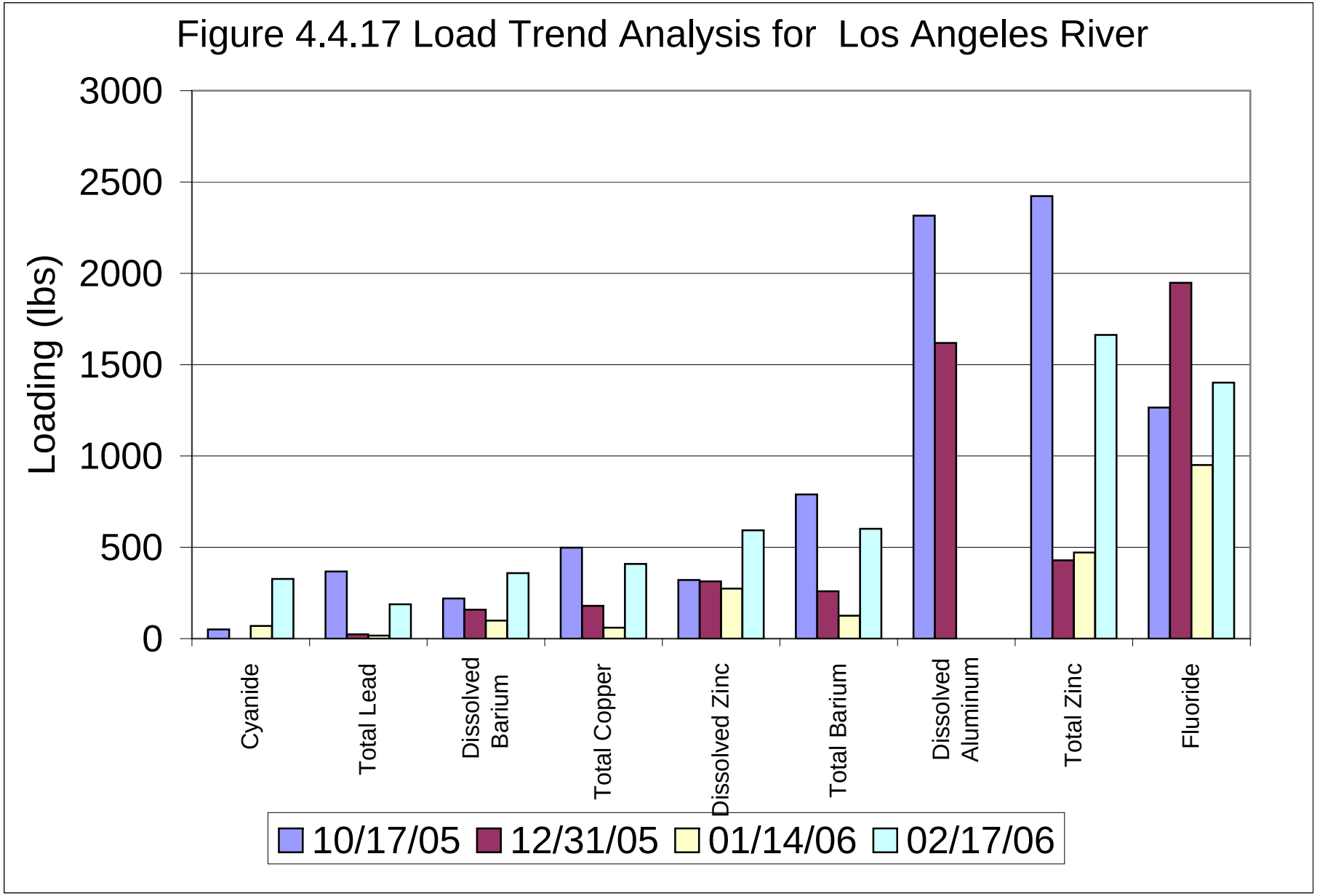


Figure 4.4.17 Load Trend Analysis for Los Angeles River
Loading (lbs)
3000
2500
2000
1500
1000
500
0
Cyanide
Total Lead
Dissolved Barium
Total Copper
Dissolved Zinc
Total Barium
Dissolved Aluminum
Total Zinc
Fluoride
10/17/05
12/31/05
01/14/06
02/17/06

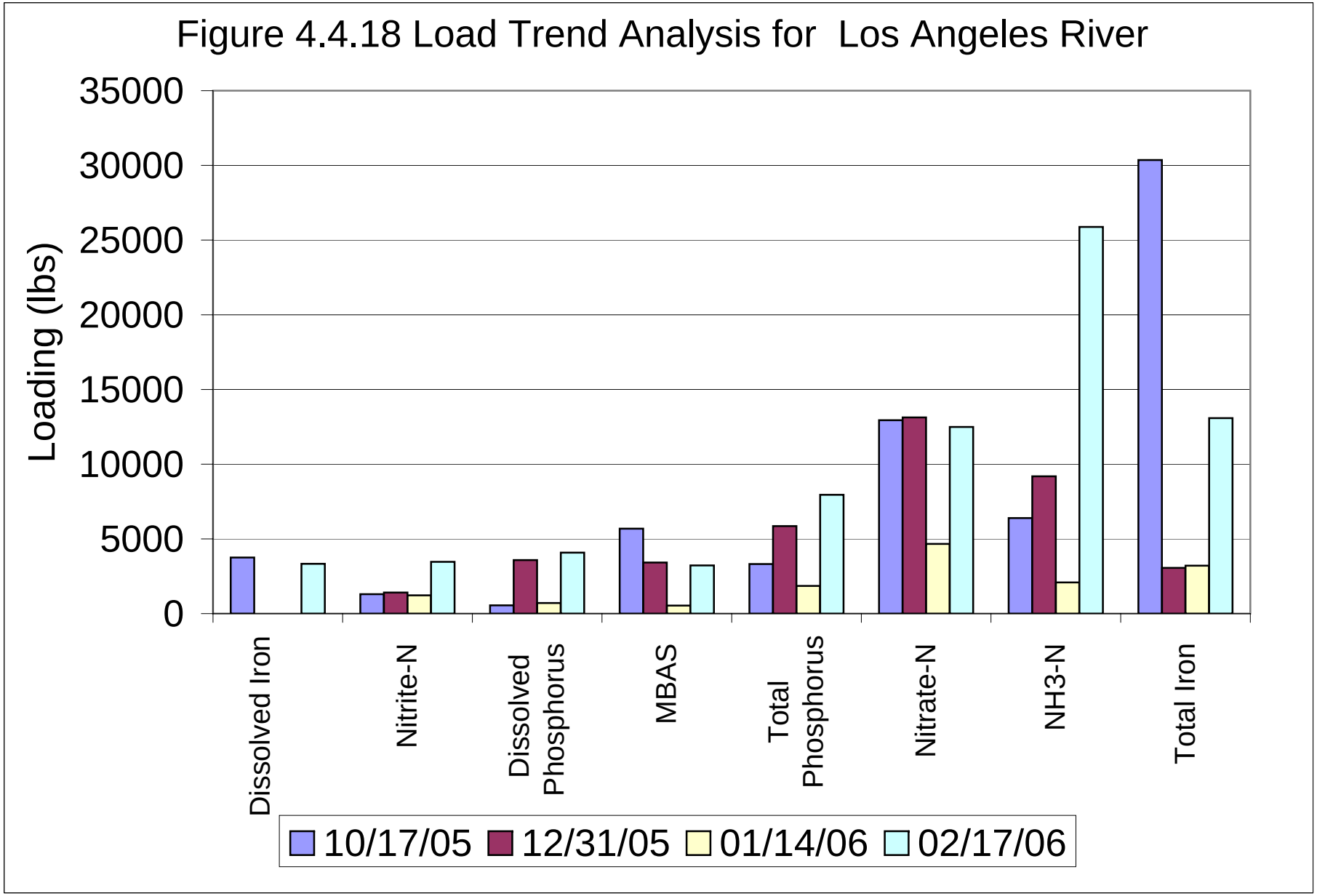


Figure 4.4.18 Load Trend Analysis for Los Angeles River
Loading (lbs)
35000
30000
25000
20000
15000
10000
5000
0
Dissolved Iron
Nitrite-N
Dissolved Phosphorus
MBAS
Total Phosphorus
Nitrate-N
NH3-N
Total Iron
10/17/05
12/31/05
01/14/06
02/17/06

Figure 4.4.19 Load Trend Analysis for Los Angeles River

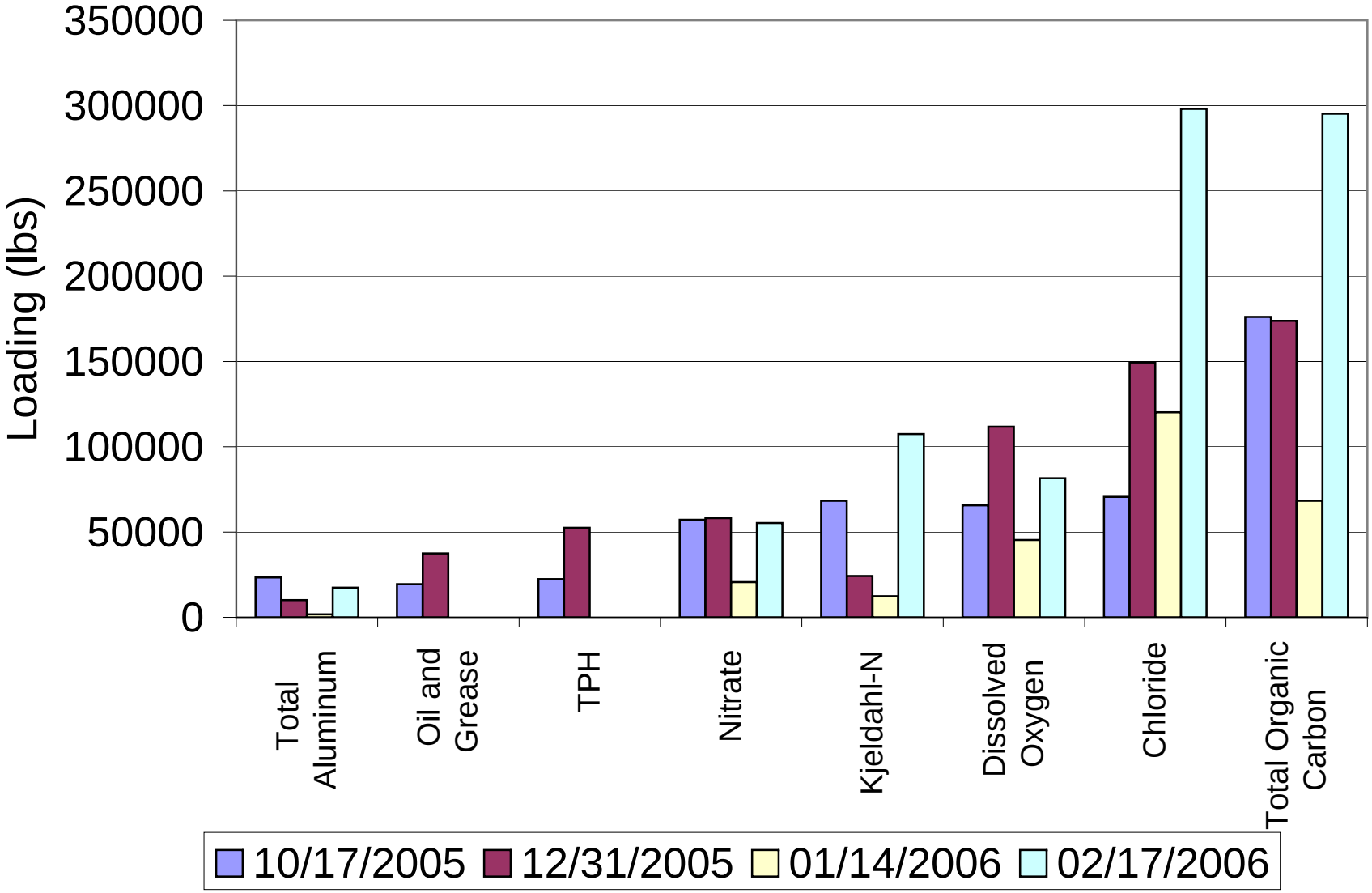
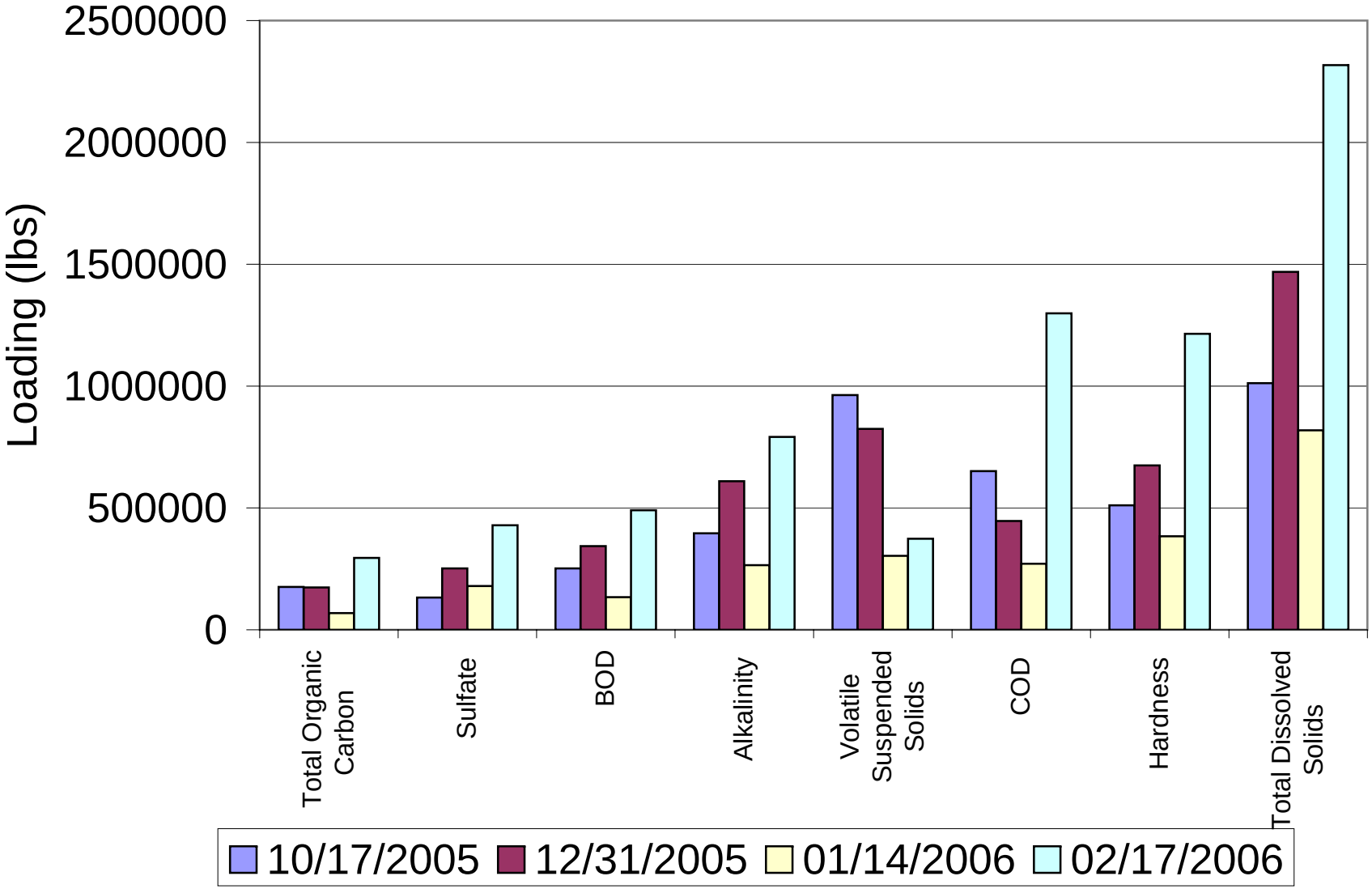


Figure 4.4.20 Load Trend Analysis for Los Angeles River



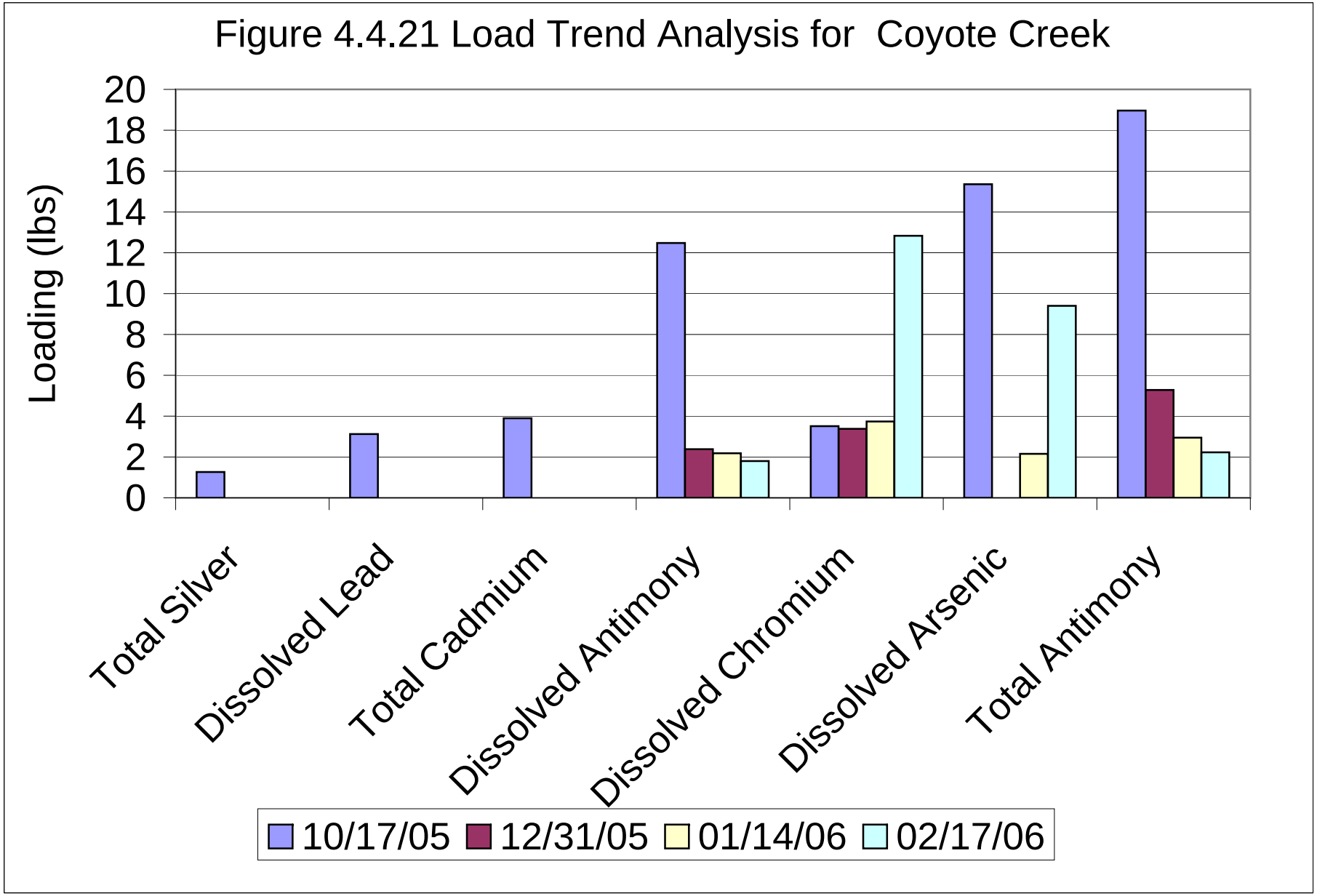


Figure 4.4.21 Load Trend Analysis for Coyote Creek
Loading (lbs)
20
18
16
14
12
10
8
6
4
2
0
Total Silver
Dissolved Lead
Total Cadmium
Dissolved Antimony
Dissolved Chromium
Dissolved Arsenic
Total Antimony
10/17/05
12/31/05
01/14/06
02/17/06

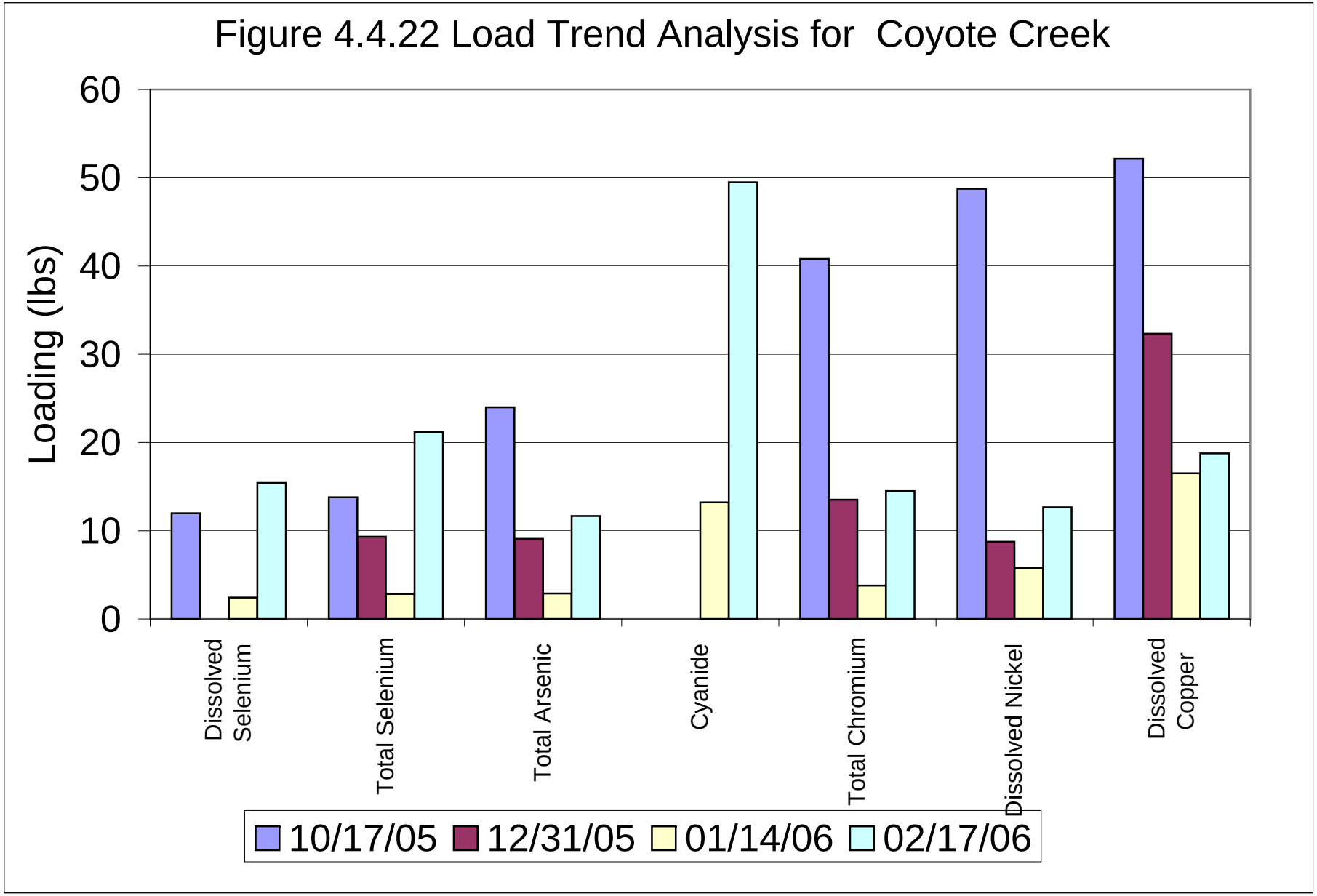


Figure 4.4.22 Load Trend Analysis for Coyote Creek
Loading (lbs)
60
50
40
30
20
10
0
Dissolved Selenium
Total Selenium
Total Arsenic
Cyanide
Total Chromium
Dissolved Nickel
Dissolved Copper
10/17/05
12/31/05
01/14/06
02/17/06

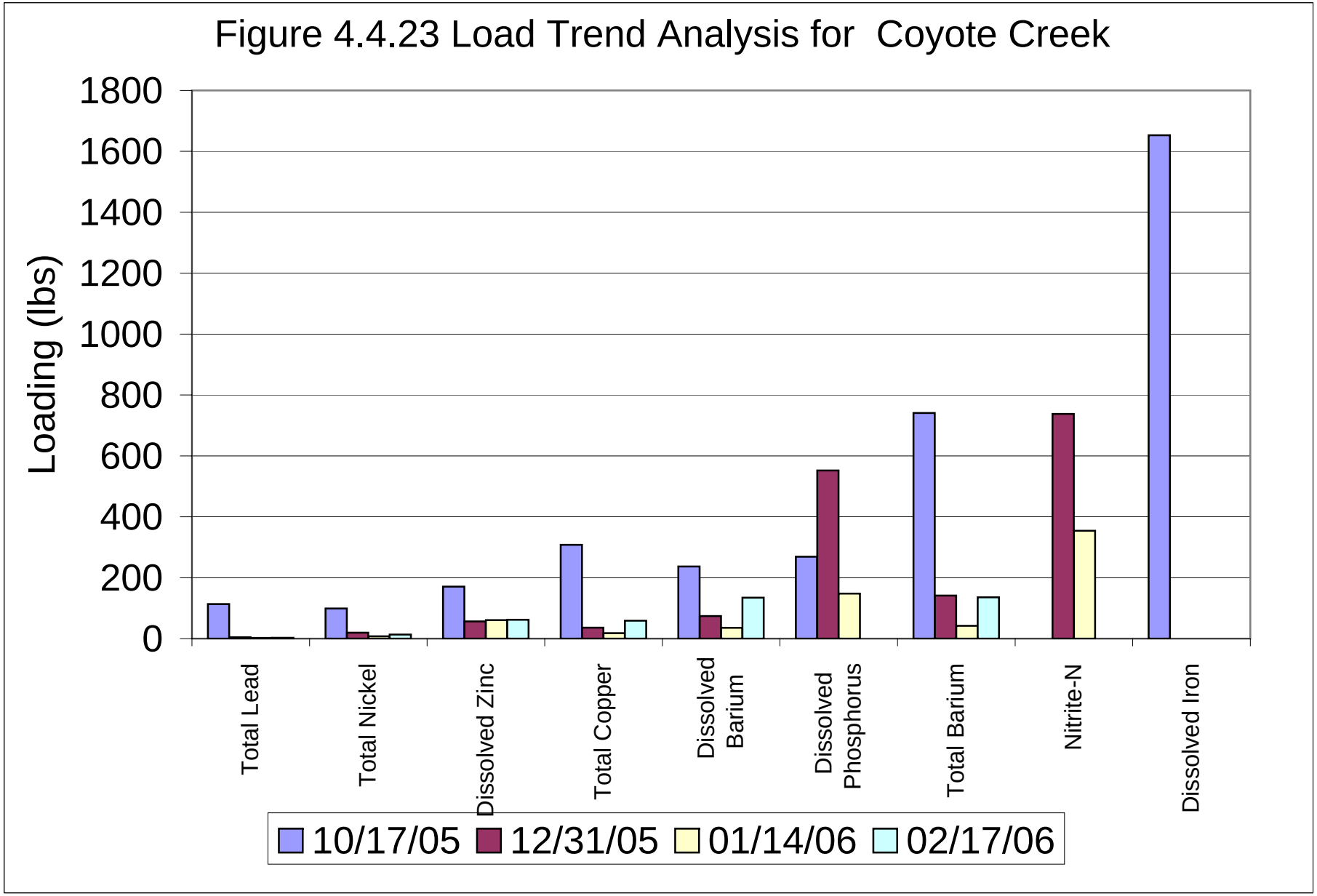


Figure 4.4.23 Load Trend Analysis for Coyote Creek
Loading (lbs)
1800
1600
1400
1200
1000
800
600
400
200
0
Total Lead
Total Nickel
Dissolved Zinc
Total Copper
Dissolved Barium
Dissolved Phosphorus
Total Barium
Nitrite-N
Dissolved Iron
10/17/05
12/31/05
01/14/06
02/17/06

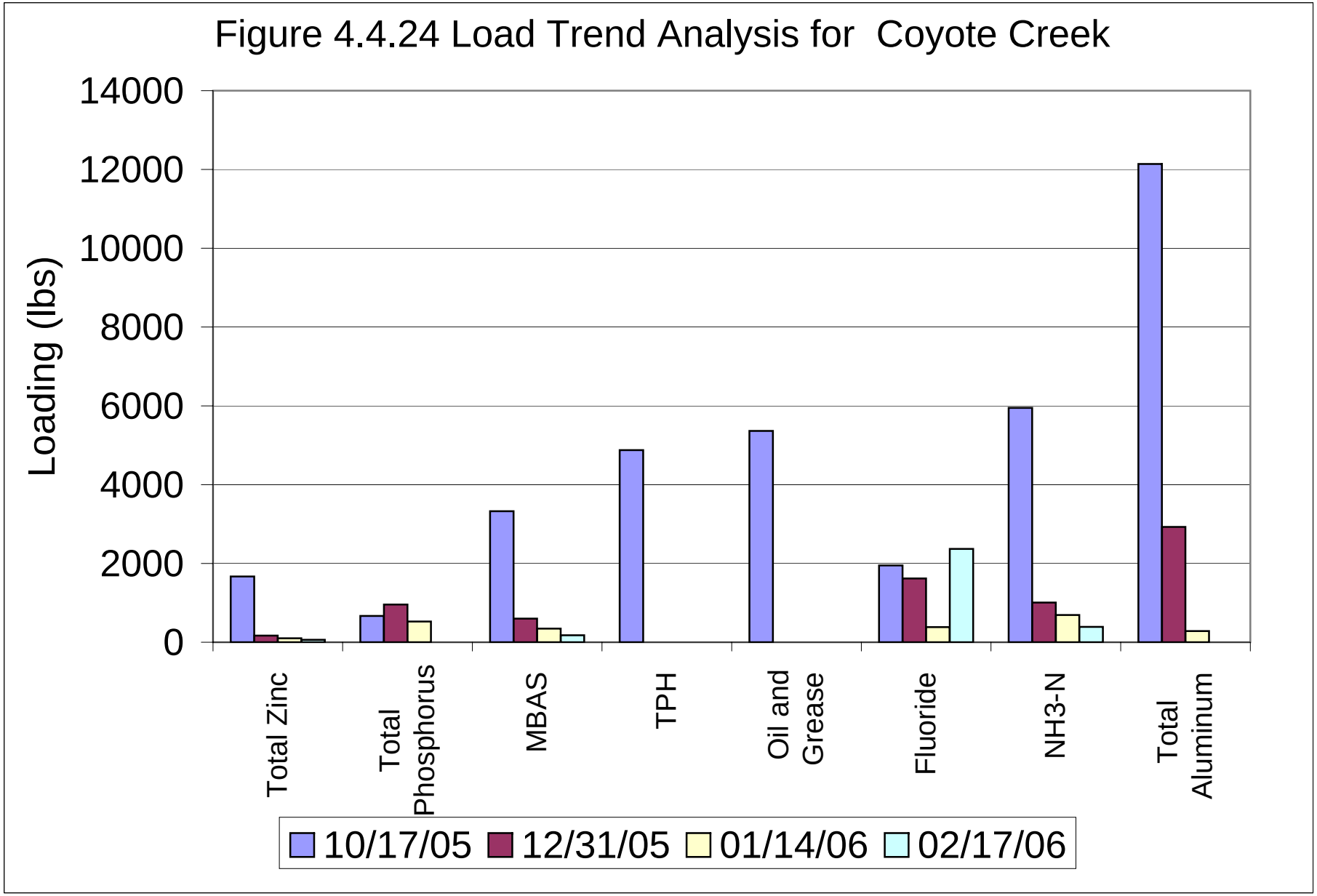


Figure 4.4.24 Load Trend Analysis for Coyote Creek
Loading (lbs)
14000
12000
10000
8000
6000
4000
2000
0
Total Zinc
Total Phosphorus
MBAS
TPH
Oil and Grease
Fluoride
NH3-N
Total Aluminum
10/17/05
12/31/05
01/14/06
02/17/06

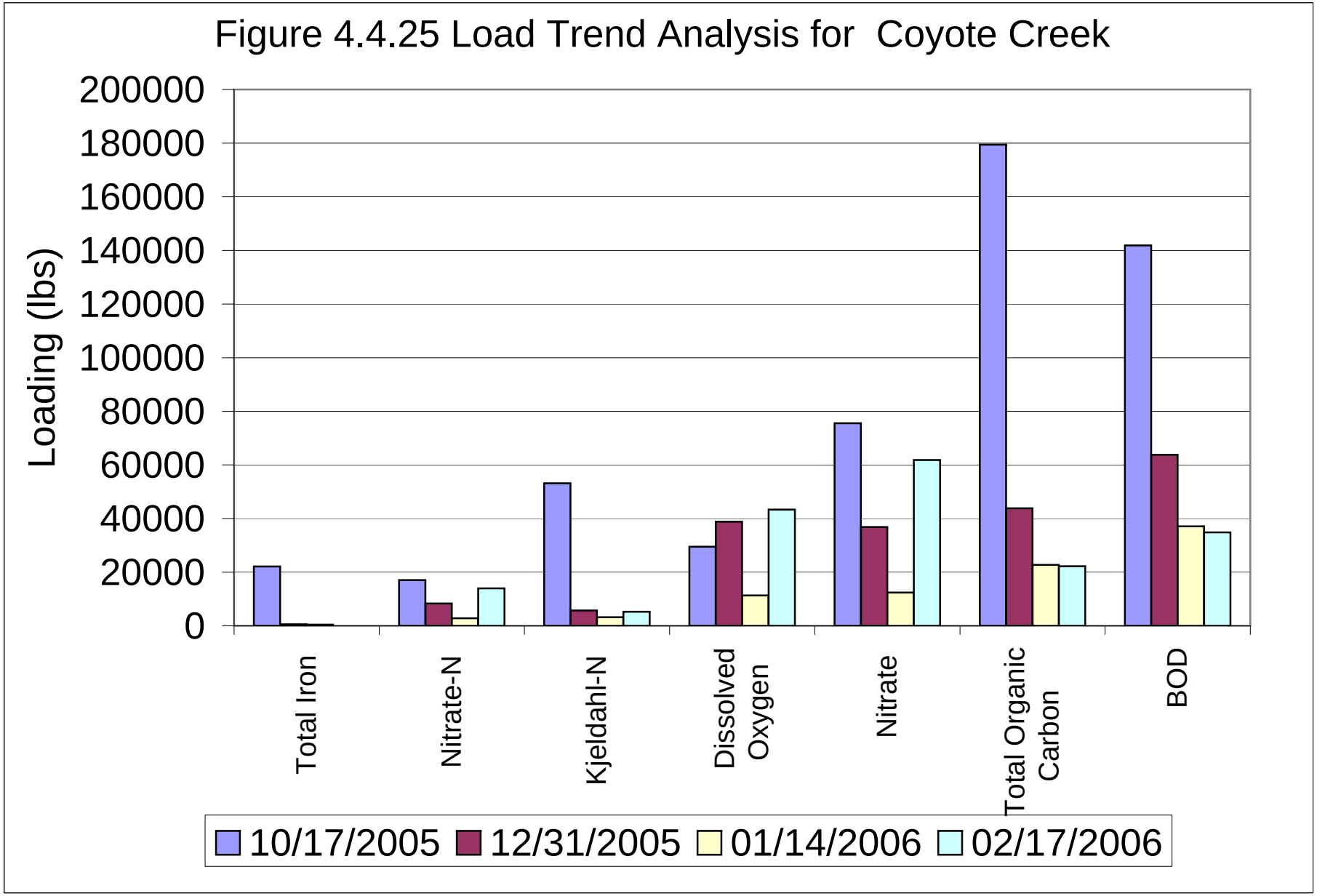


Figure 4.4.25 Load Trend Analysis for Coyote Creek
Loading (lbs)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
Total Iron
Nitrate-N
Kjeldahl-N
Dissolved Oxygen
Nitrate
Total Organic Carbon
BOD
10/17/2005
12/31/2005
01/14/2006
02/17/2006

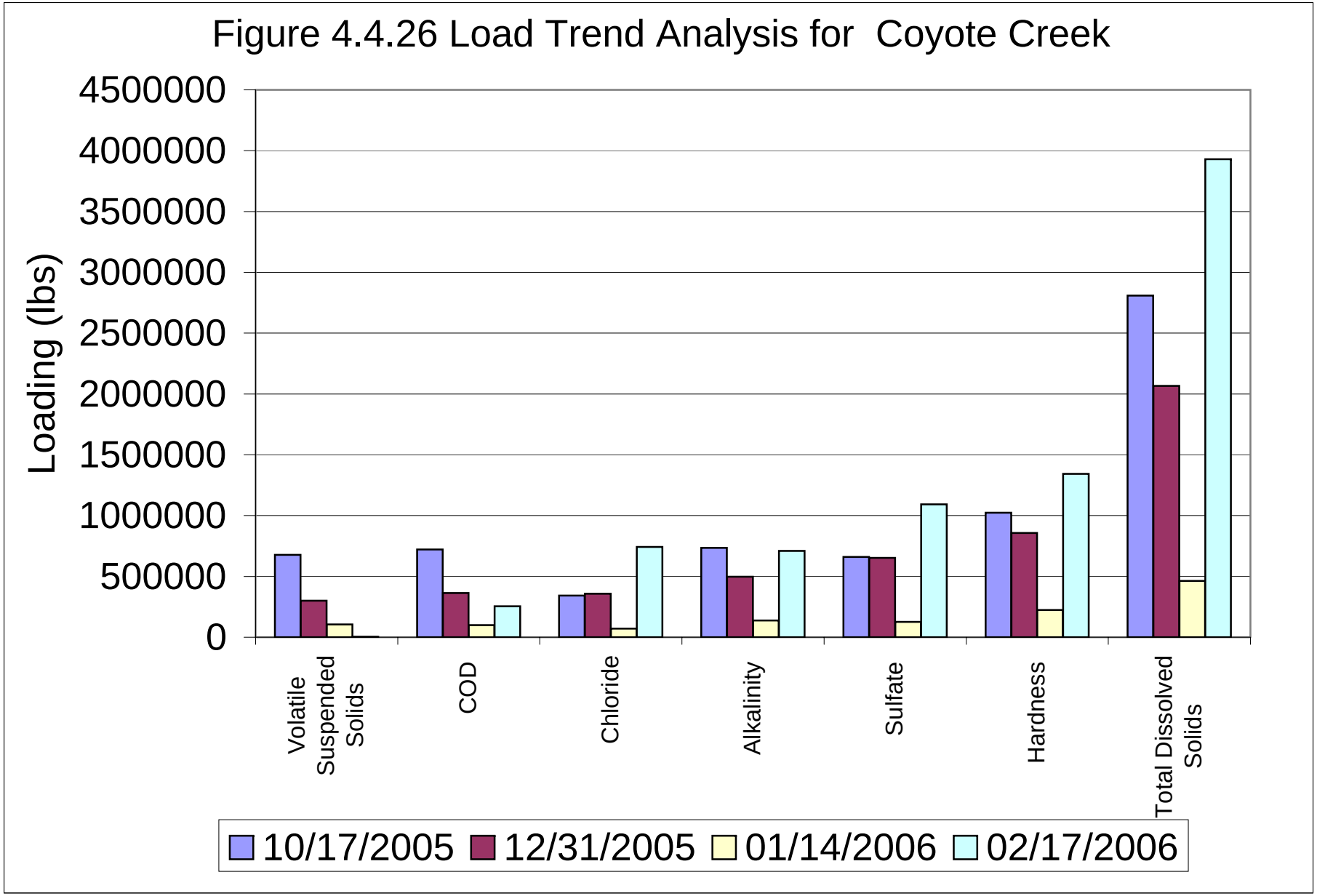


Figure 4.4.26 Load Trend Analysis for Coyote Creek
Loading (lbs)
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
Volatile Suspended Solids
COD
Chloride
Alkalinity
Sulfate
Hardness
Total Dissolved Solids
10/17/2005
12/31/2005
01/14/2006
02/17/2006

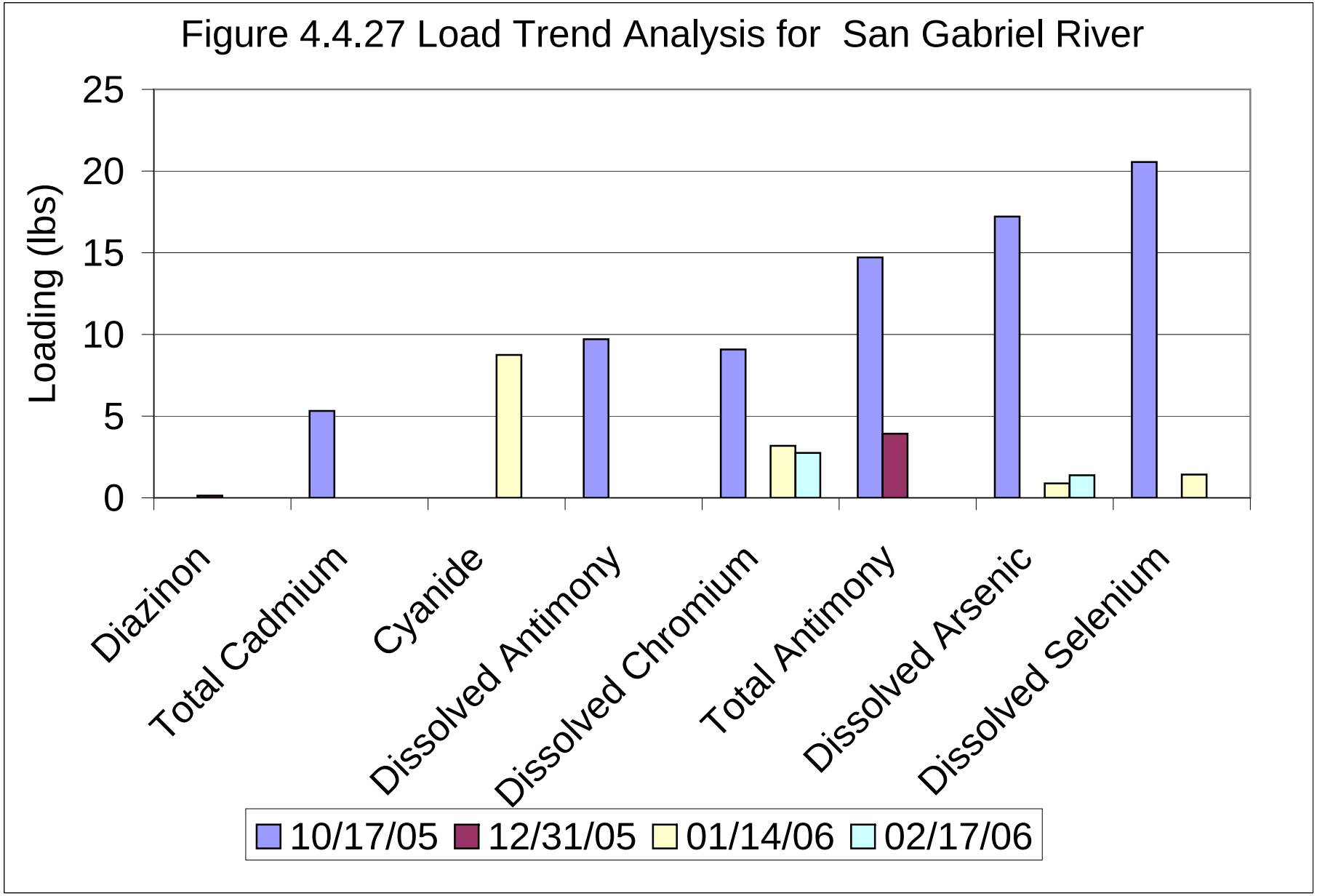


Figure 4.4.27 Load Trend Analysis for San Gabriel River
Loading (lbs)
25
20
15
10
5
0
Diazinon
Total Cadmium
Cyanide
Dissolved Antimony
Dissolved Chromium
Total Antimony
Dissolved Arsenic
Dissolved Selenium
10/17/05
12/31/05
01/14/06
02/17/06

Figure 4.4.28 Load Trend Analysis for San Gabriel River

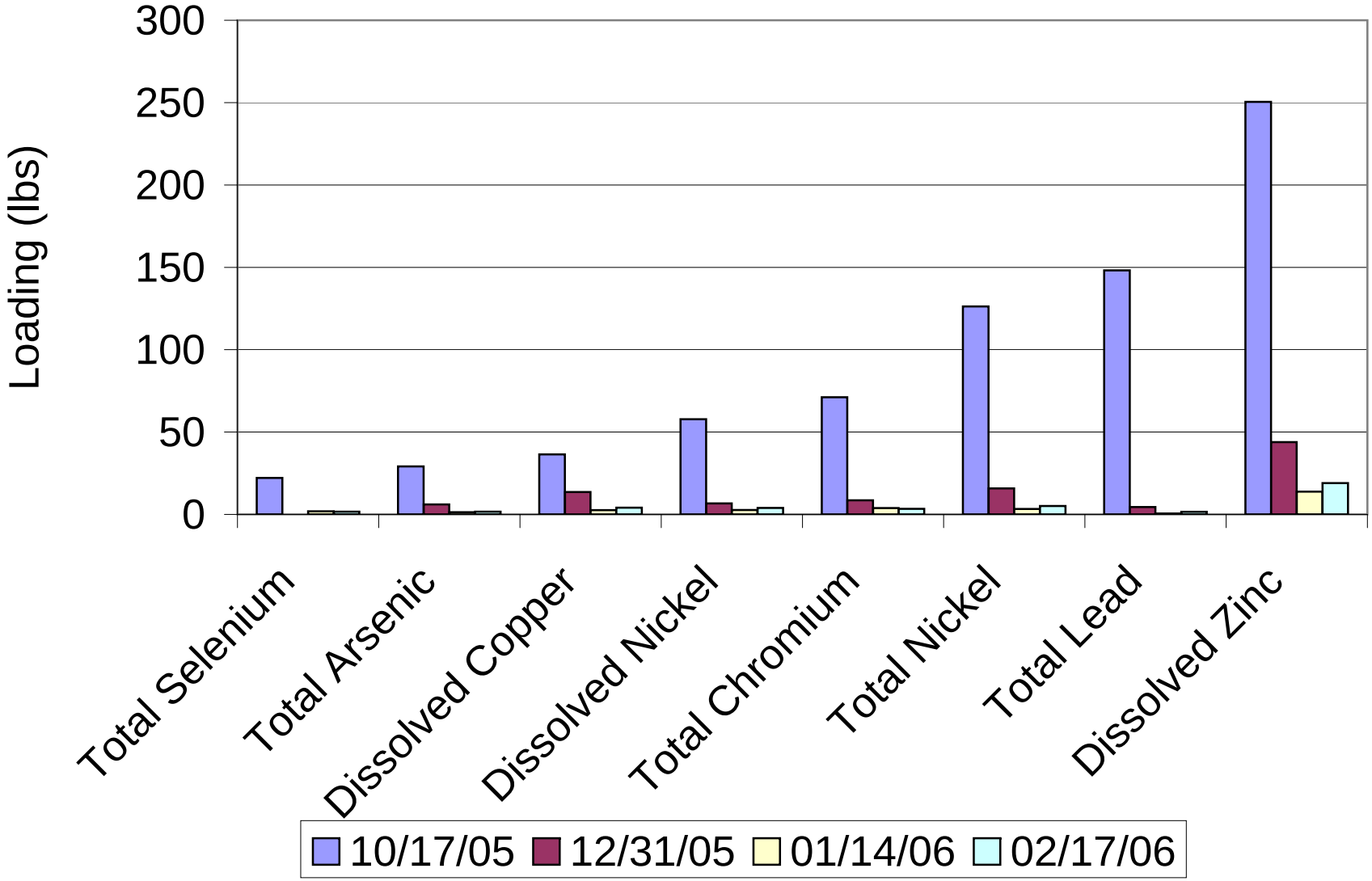
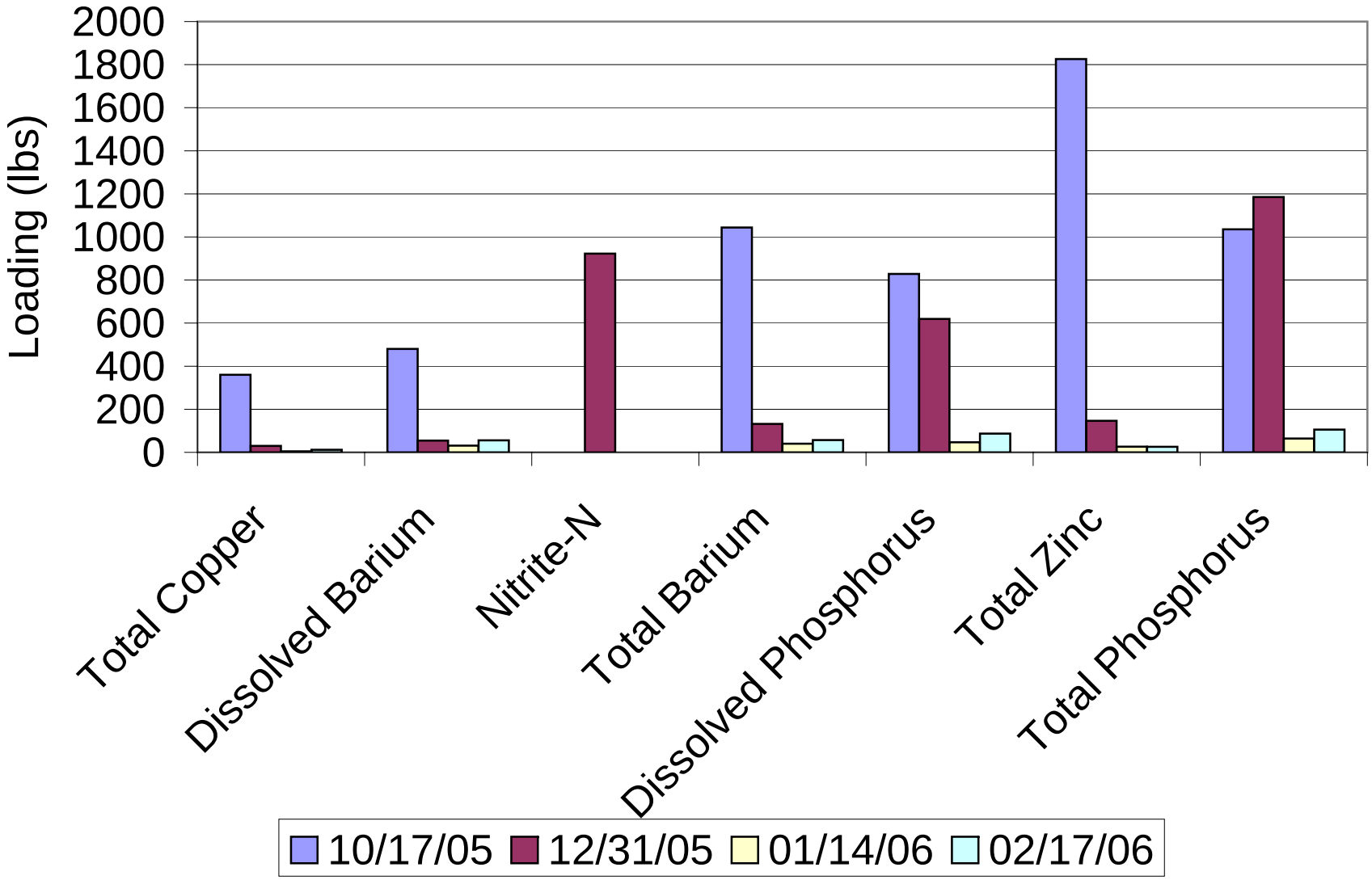


Figure 4.4.29 Load Trend Analysis for San Gabriel River



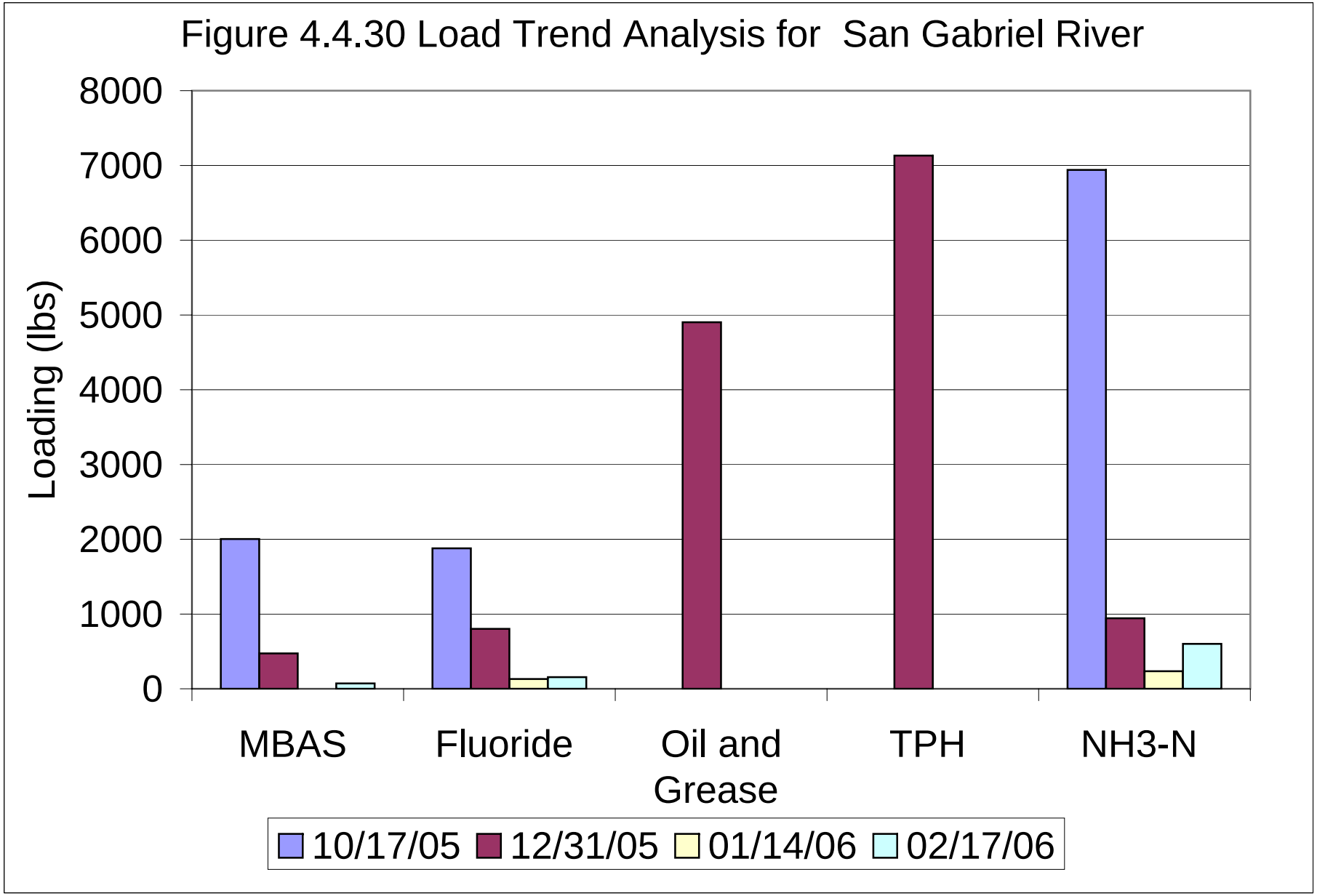


Figure 4.4.30 Load Trend Analysis for San Gabriel River
Loading (lbs)
8000
7000
6000
5000
4000
3000
2000
1000
0
MBAS
Fluoride
Oil and Grease
TPH
NH3-N
10/17/05
12/31/05
01/14/06
02/17/06

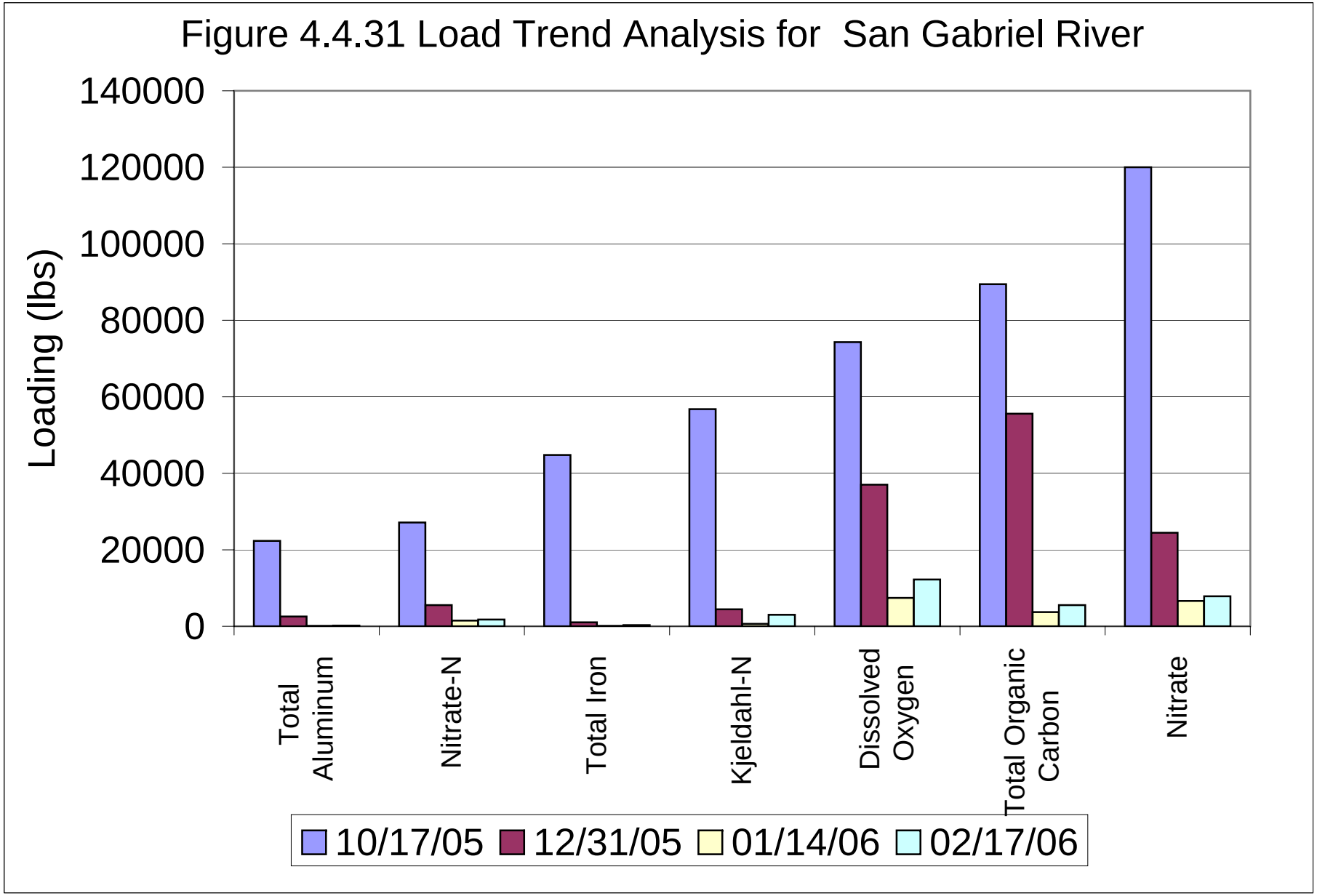


Figure 4.4.31 Load Trend Analysis for San Gabriel River
Loading (lbs)
140000
120000
100000
80000
60000
40000
20000
0
Total Aluminum
Nitrate-N
Total Iron
Kjeldahl-N
Dissolved Oxygen
Total Organic Carbon
Nitrate
10/17/05
12/31/05
01/14/06
02/17/06

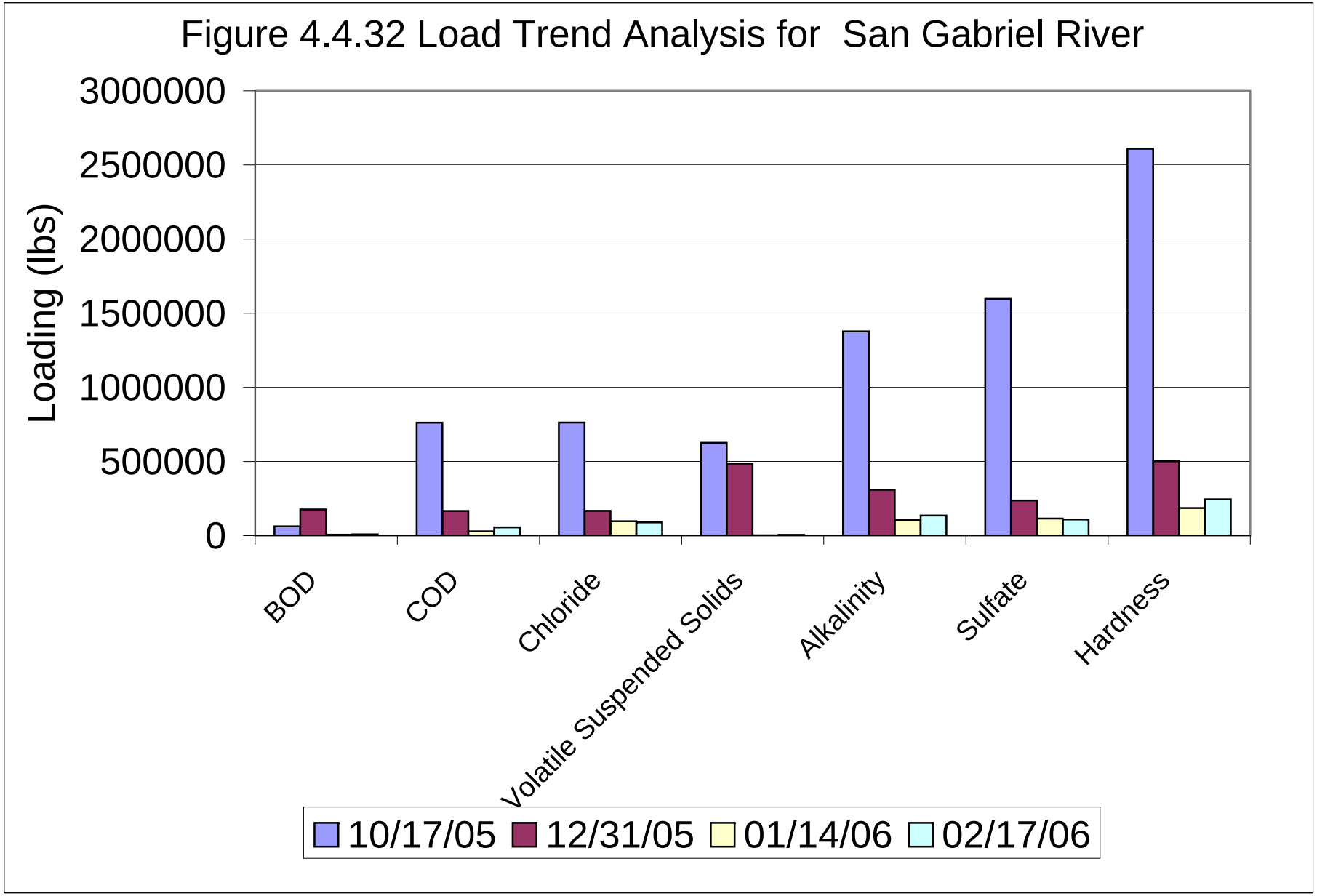
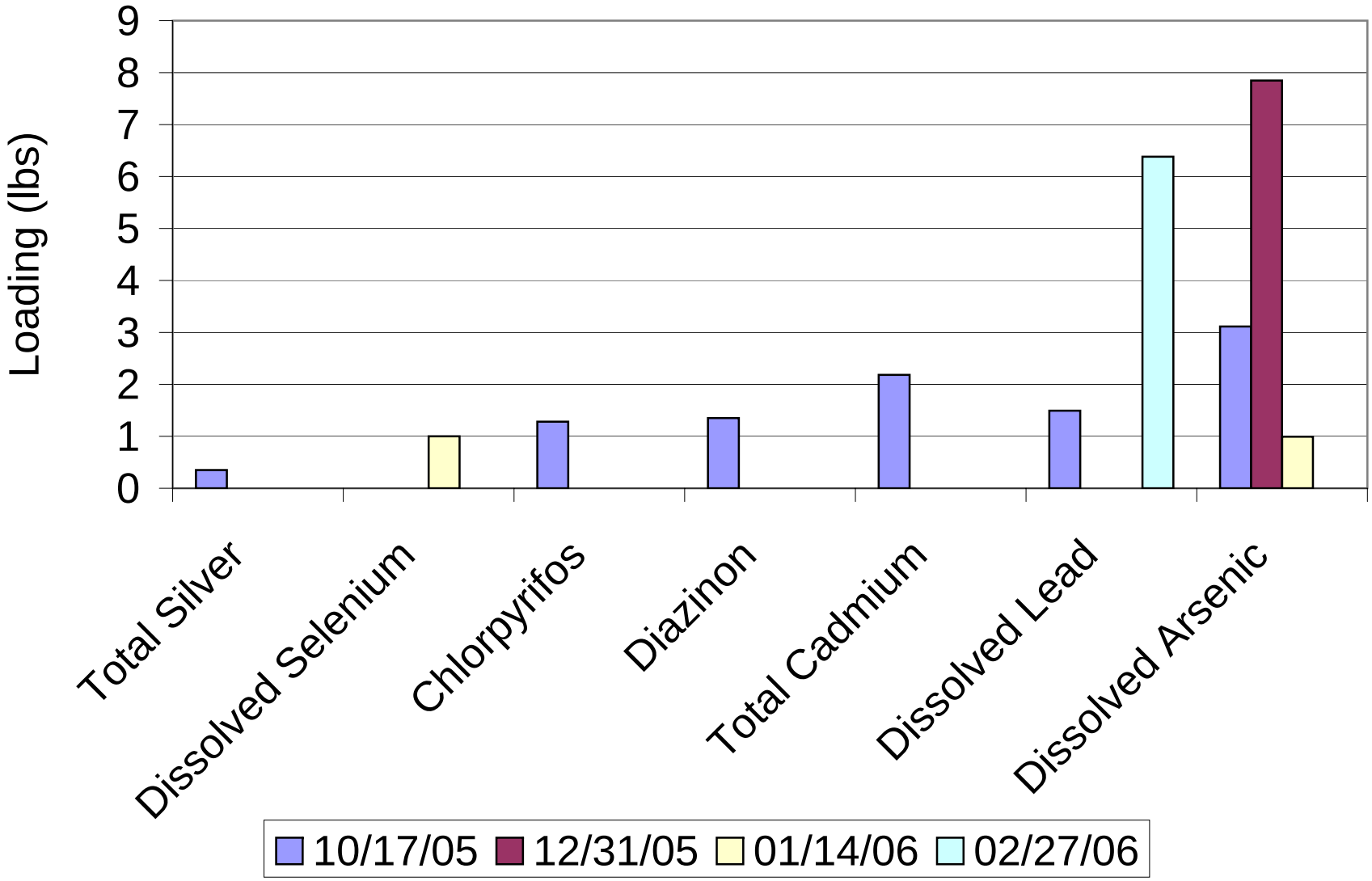


Figure 4.4.32 Load Trend Analysis for San Gabriel River
Loading (lbs)
3000000
2500000
2000000
1500000
1000000
500000
0
BOD
COD
Chloride
Volatile Suspended Solids
Alkalinity
Sulfate
Hardness
10/17/05
12/31/05
01/14/06
02/17/06

Figure 4.4.33 Load Trend Analysis for Dominguez Channel



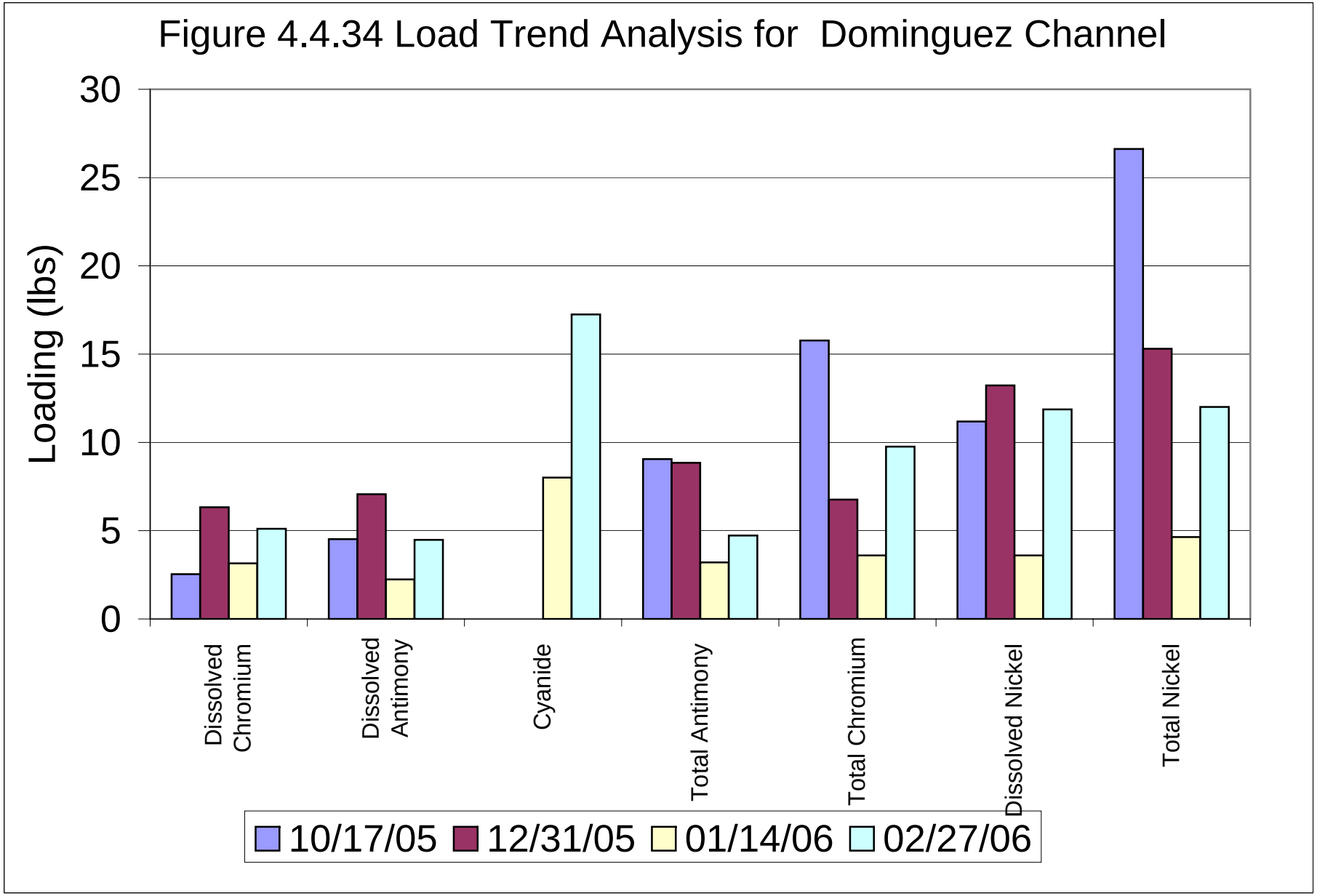


Figure 4.4.34 Load Trend Analysis for Dominguez Channel
Loading (lbs)
30
25
20
15
10
5
0
Dissolved Chromium
Dissolved Antimony
Cyanide
Total Antimony
Total Chromium
Dissolved Nickel
Total Nickel
10/17/05
12/31/05
01/14/06
02/27/06

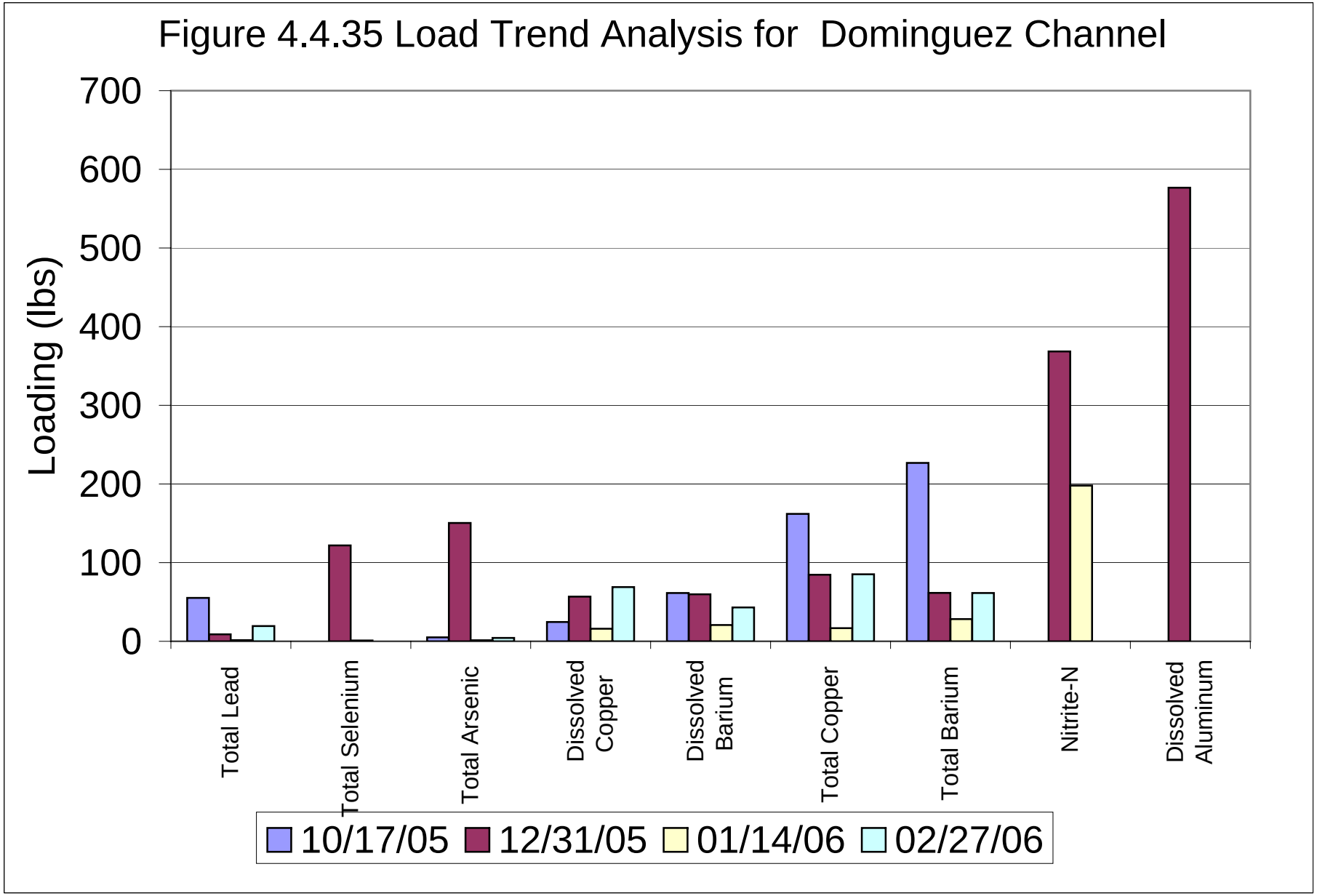


Figure 4.4.35 Load Trend Analysis for Dominguez Channel
Loading (lbs)
700
600
500
400
300
200
100
0
Total Lead
Total Selenium
Total Arsenic
Dissolved Copper
Dissolved Barium
Total Copper
Total Barium
Nitrite-N
Dissolved Aluminum
10/17/05
12/31/05
01/14/06
02/27/06

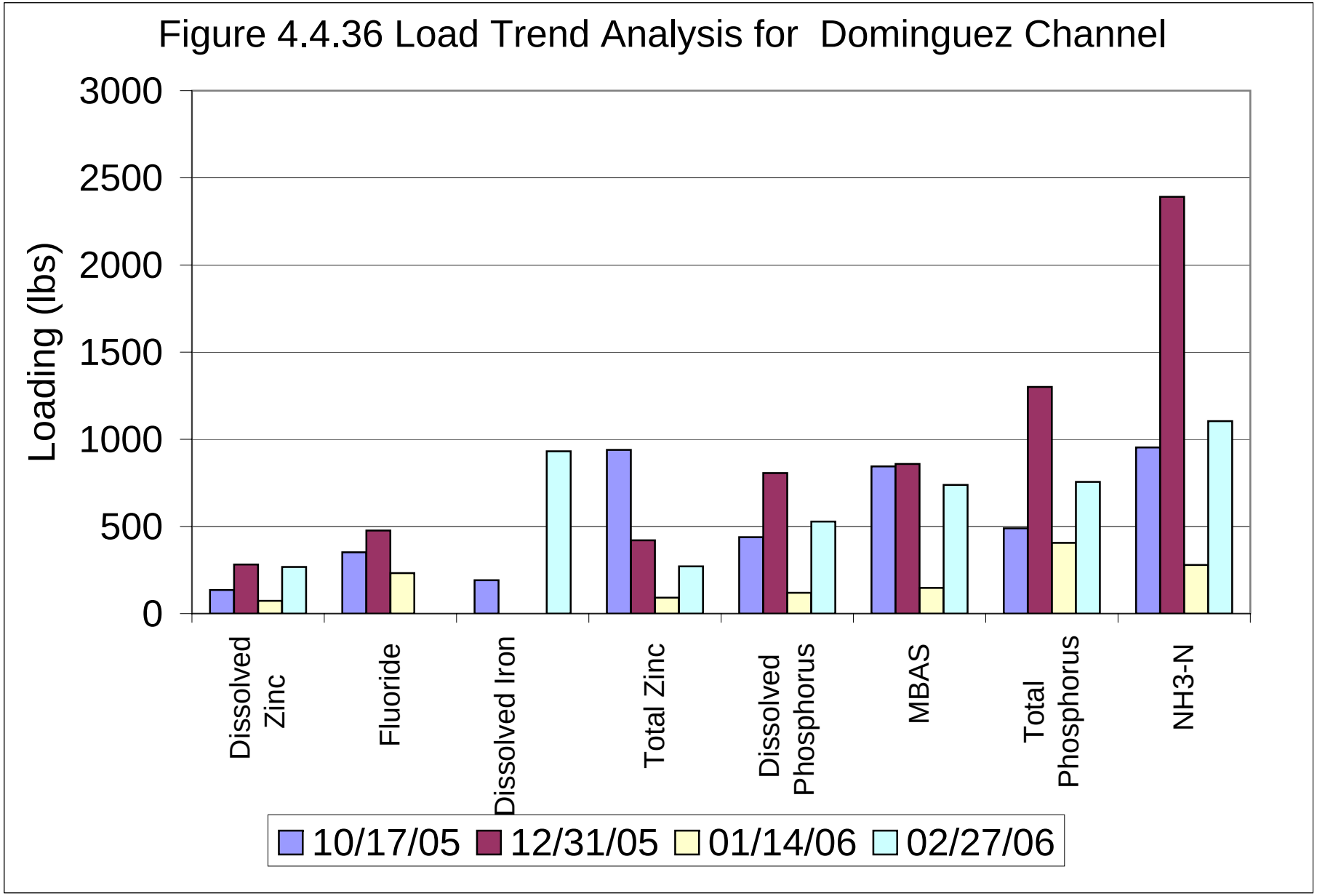


Figure 4.4.36 Load Trend Analysis for Dominguez Channel
Loading (lbs)
3000
2500
2000
1500
1000
500
0
Dissolved Zinc
Fluoride
Dissolved Iron
Total Zinc
Dissolved Phosphorus
MBAS
Total Phosphorus
NH3-N
10/17/05
12/31/05
01/14/06
02/27/06

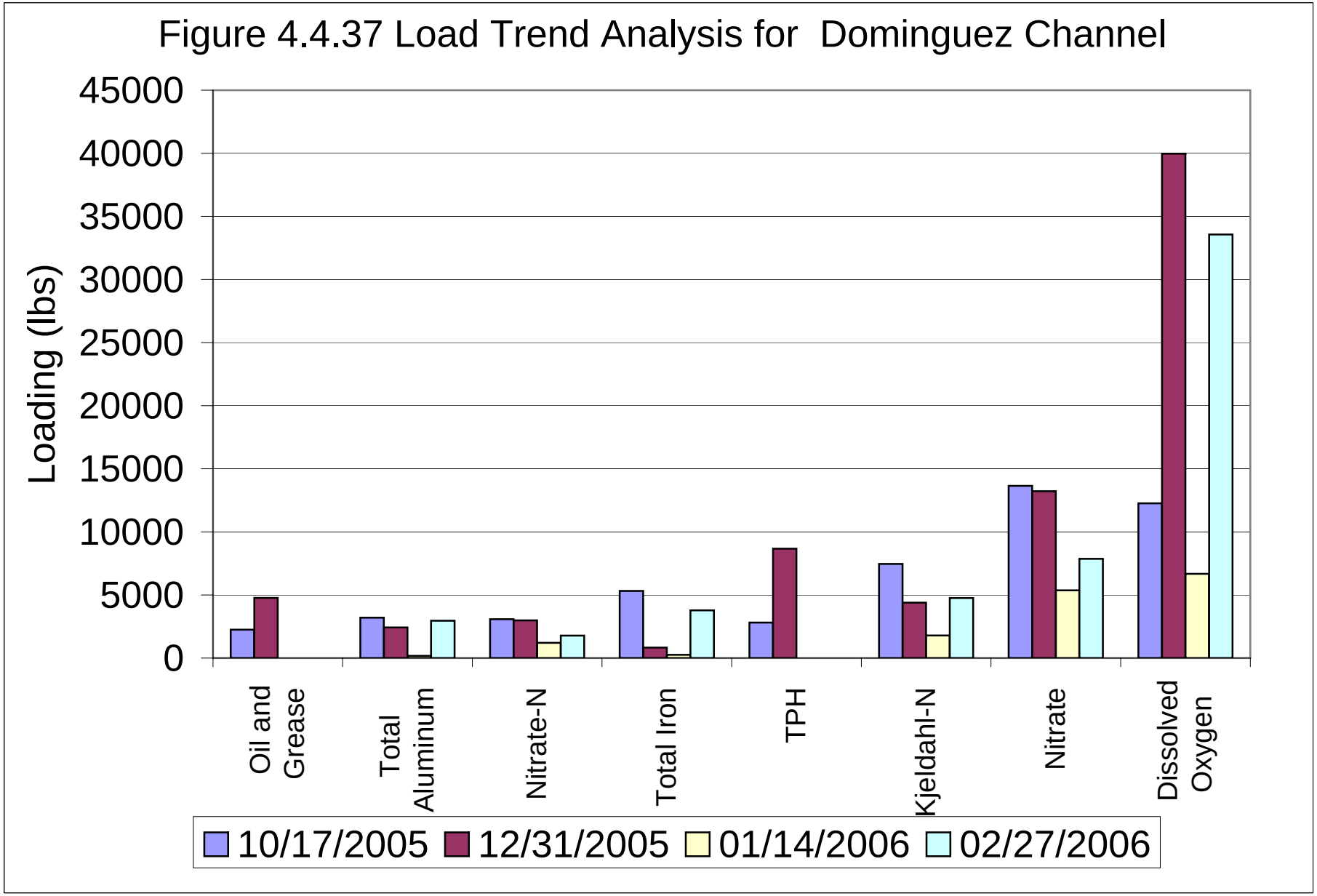


Figure 4.4.37 Load Trend Analysis for Dominguez Channel
Loading (lbs)
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
Oil and Grease
Total Aluminum
Nitrate-N
Total Iron
TPH
Kjeldahl-N
Nitrate
Dissolved Oxygen
10/17/2005
12/31/2005
01/14/2006
02/27/2006

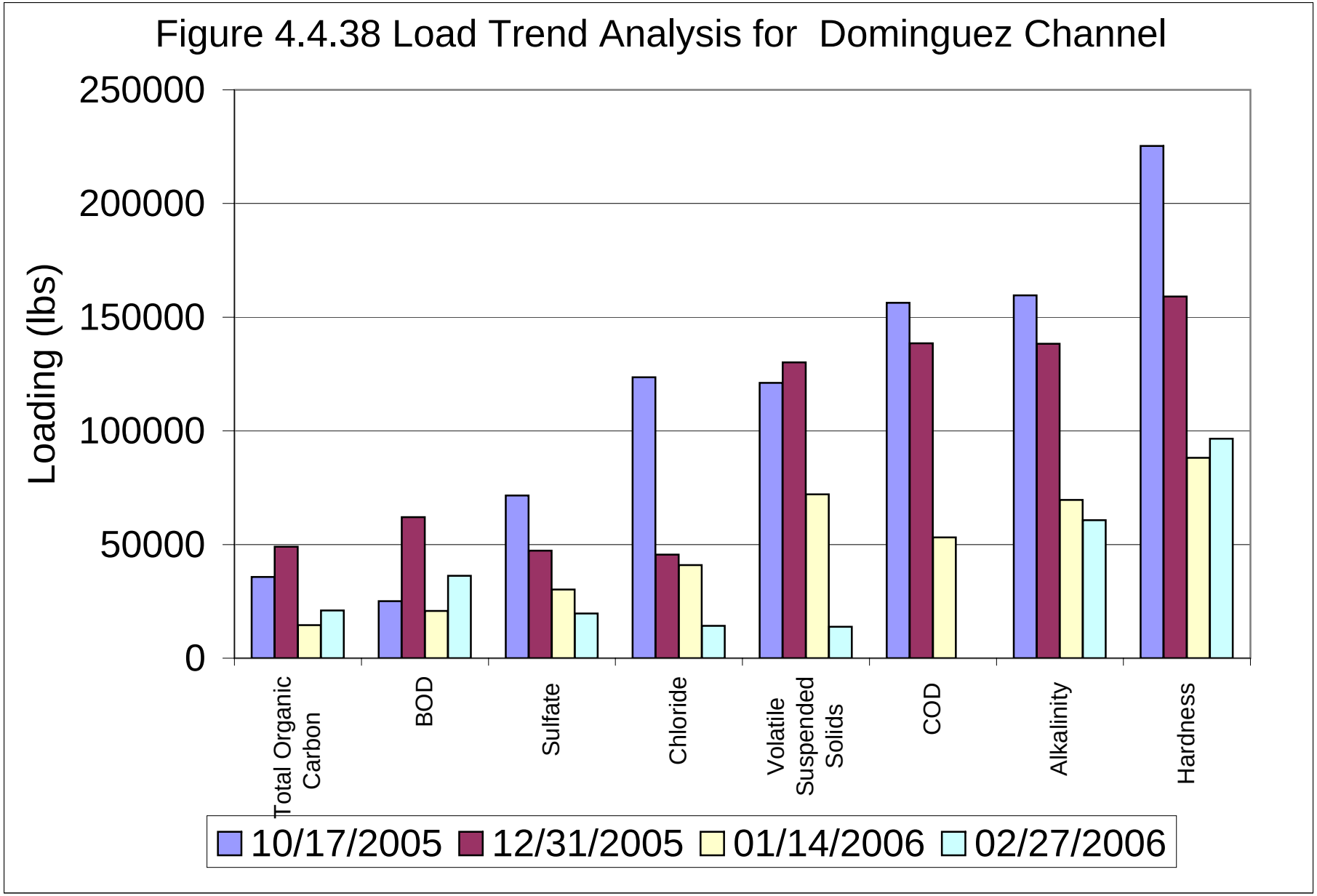
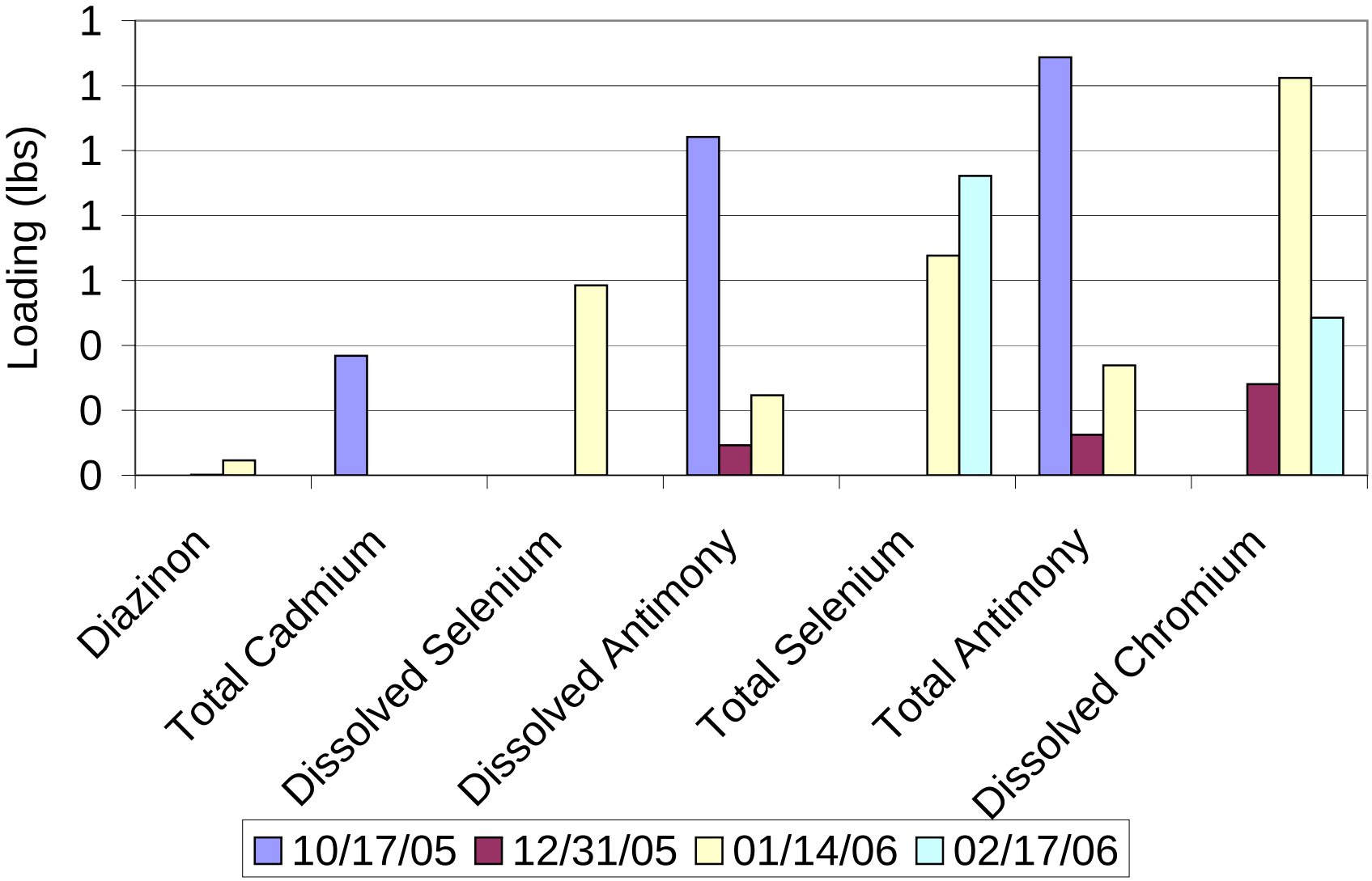


Figure 4.4.38 Load Trend Analysis for Dominguez Channel
Loading (lbs)
250000
200000
150000
100000
50000
0
Total Organic Carbon
BOD
Sulfate
Chloride
Volatile Suspended Solids
COD
Alkalinity
Hardness
10/17/2005
12/31/2005
01/14/2006
02/27/2006

Figure 4.4.39 Load Trend Analysis for Santa Clara River



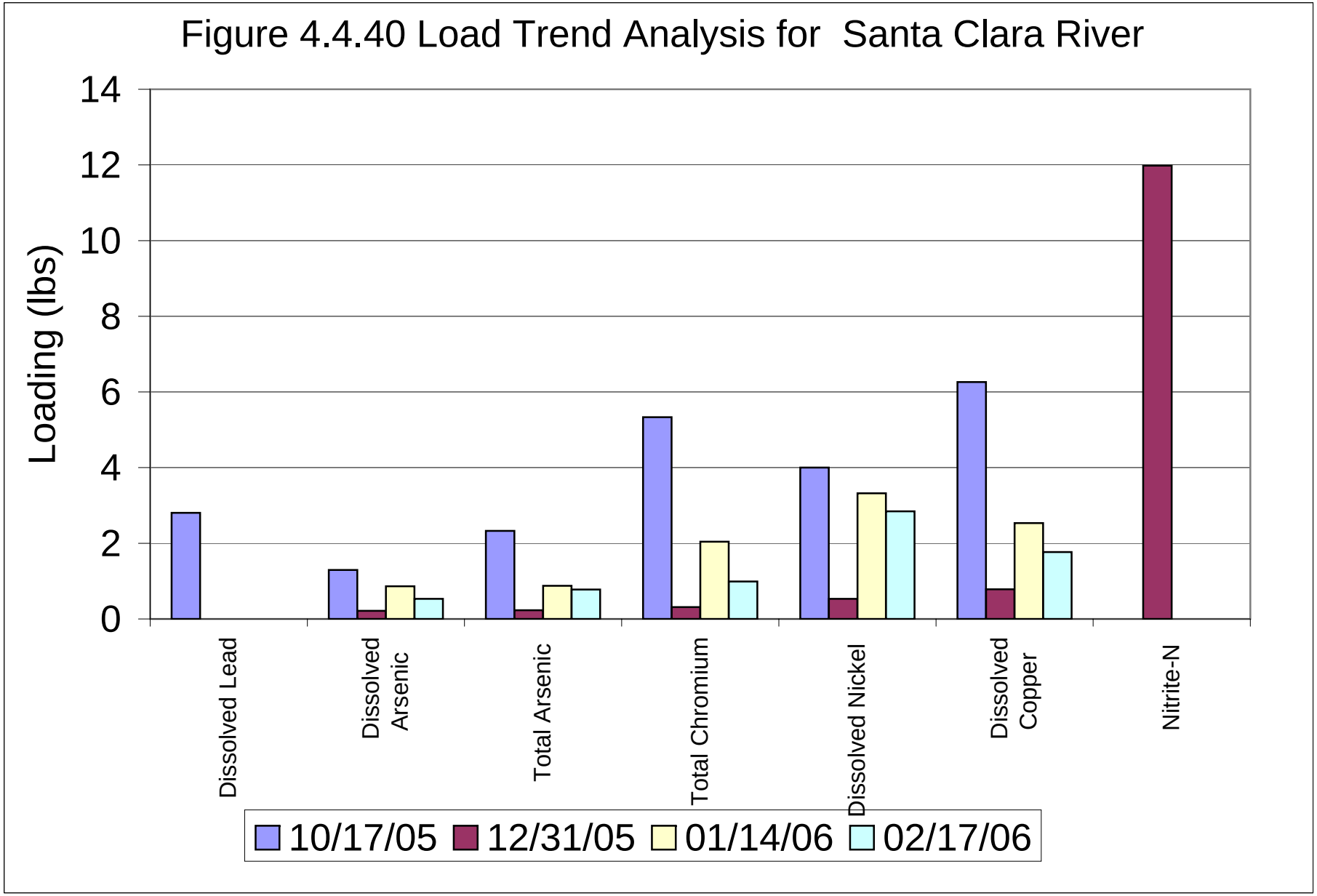


Figure 4.4.40 Load Trend Analysis for Santa Clara River
Loading (lbs)
14
12
10
8
6
4
2
0
Dissolved Lead
Dissolved Arsenic
Total Arsenic
Total Chromium
Dissolved Nickel
Dissolved Copper
Nitrite-N
10/17/05
12/31/05
01/14/06
02/17/06

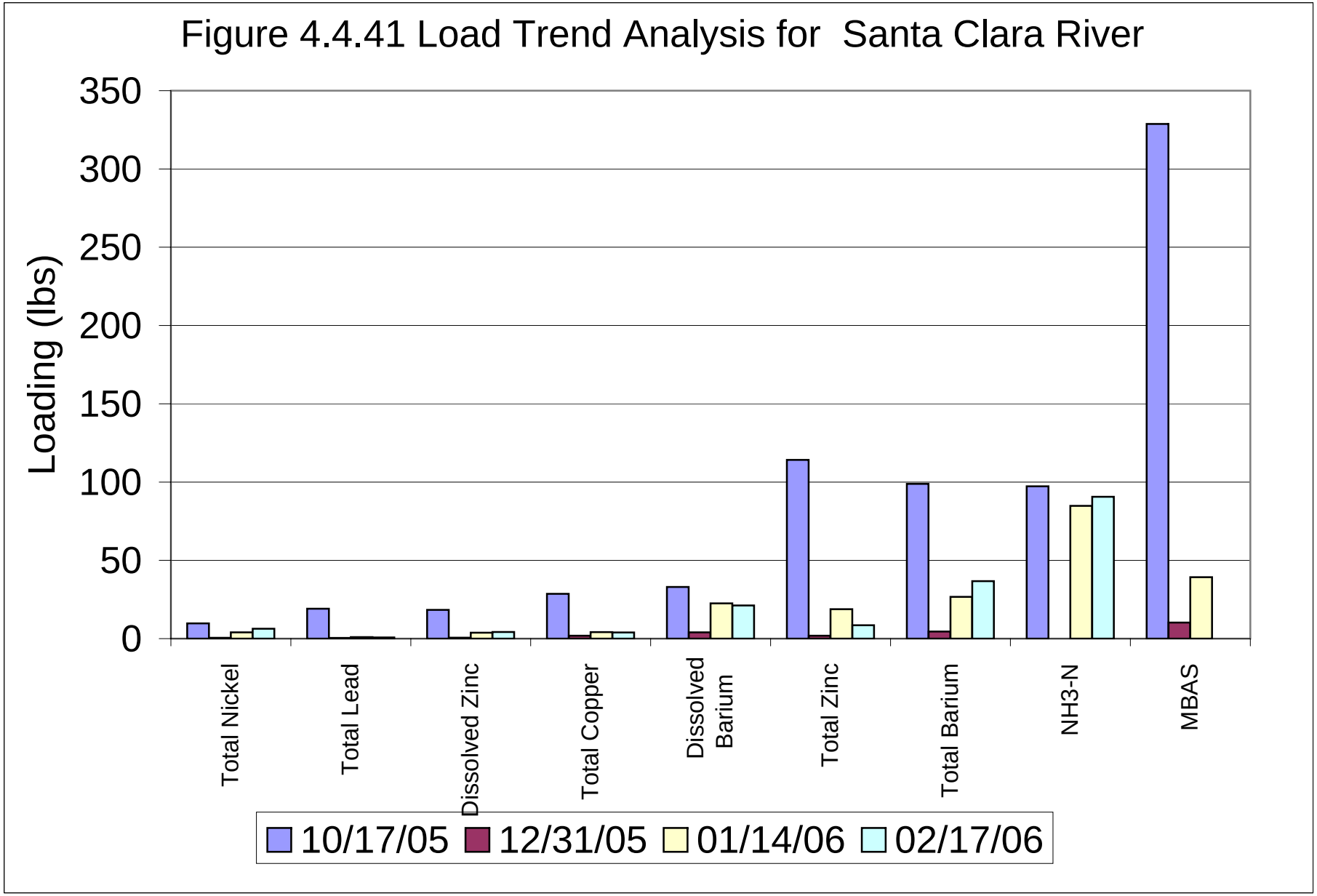


Figure 4.4.41 Load Trend Analysis for Santa Clara River
Loading (lbs)
350
300
250
200
150
100
50
0
Total Nickel
Total Lead
Dissolved Zinc
Total Copper
Dissolved Barium
Total Zinc
Total Barium
NH3-N
MBAS
10/17/05
12/31/05
01/14/06
02/17/06

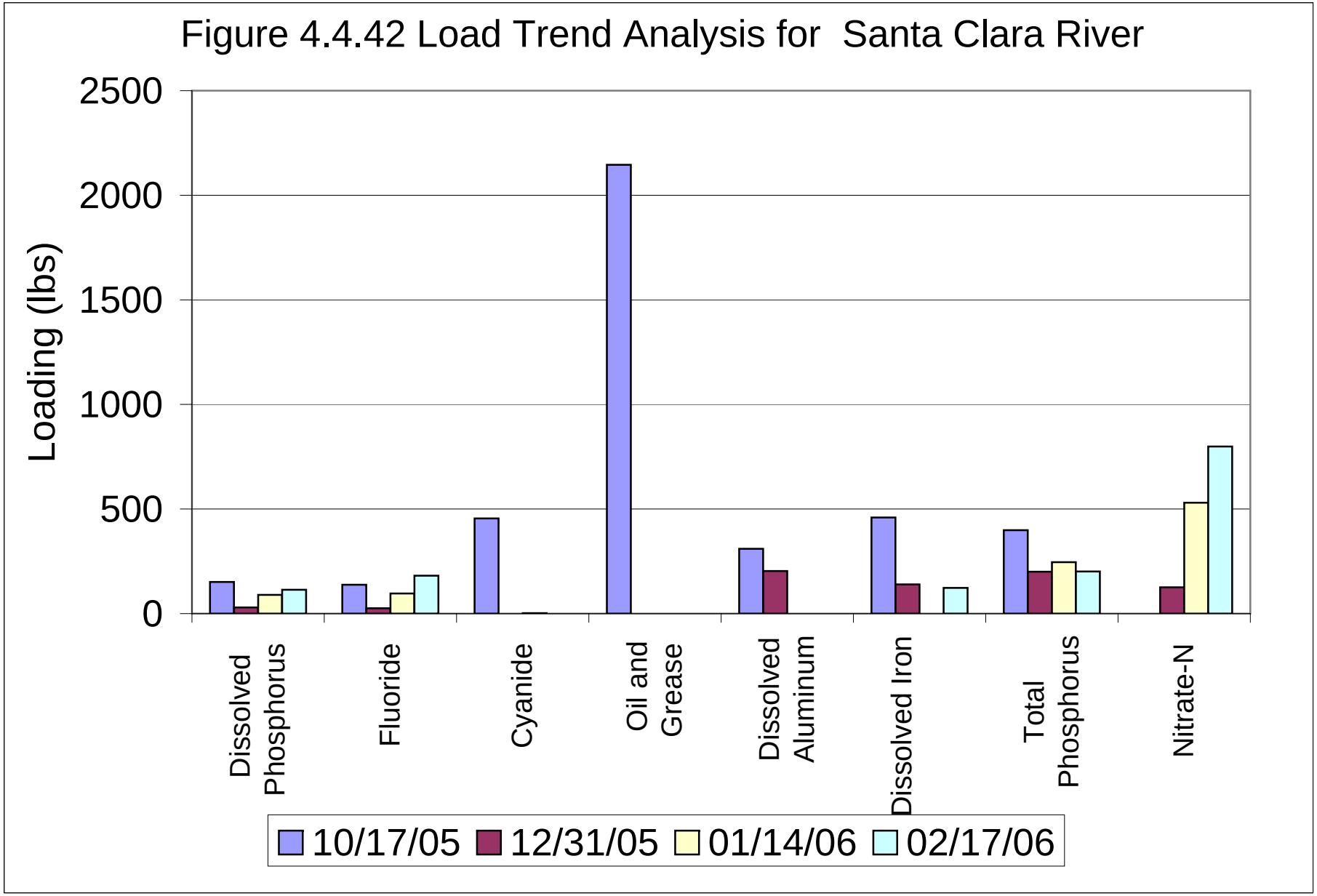
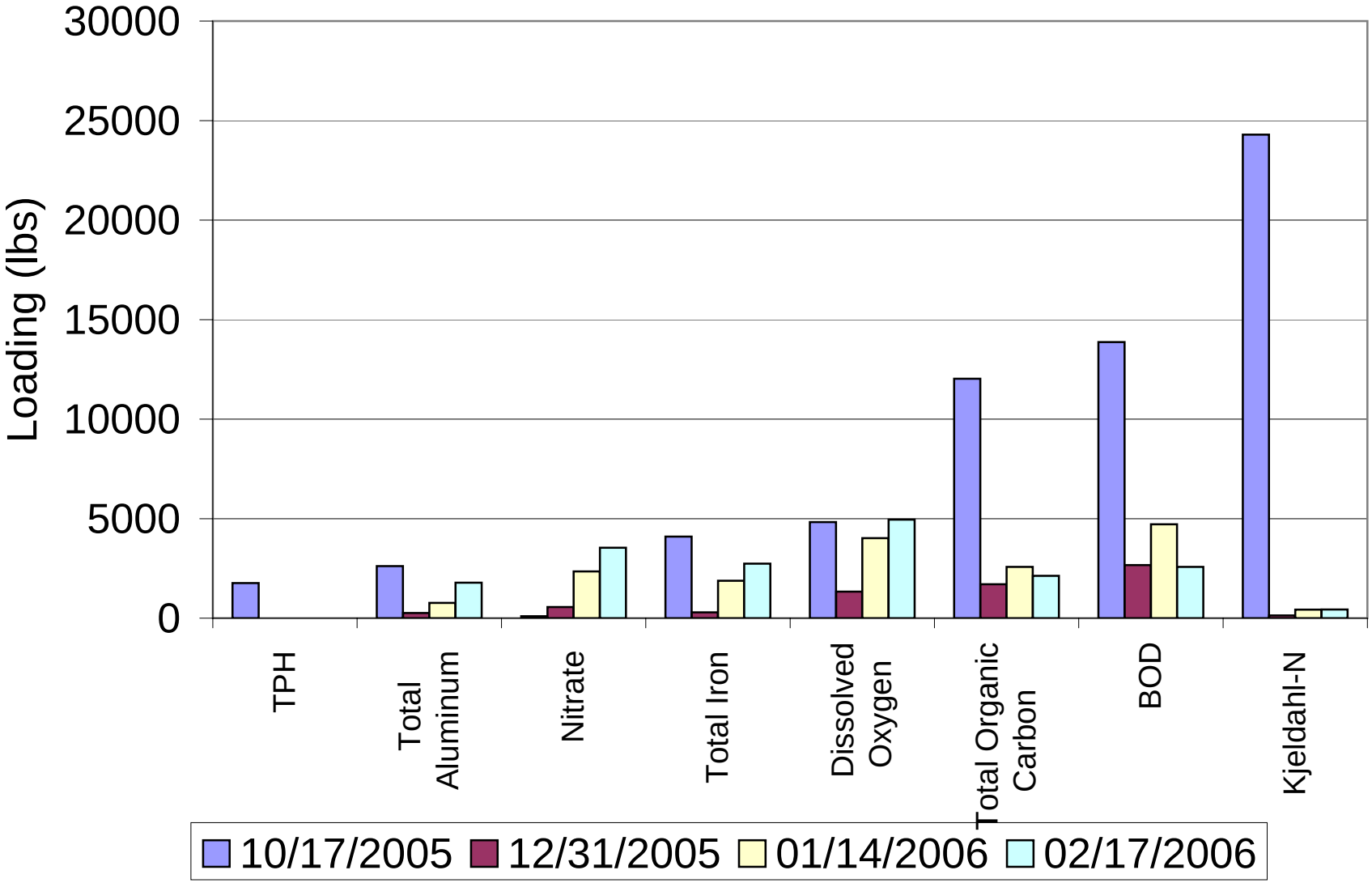


Figure 4.4.42 Load Trend Analysis for Santa Clara River
Loading (lbs)
2500
2000
1500
1000
500
0
Dissolved Phosphorus
Fluoride
Cyanide
Oil and Grease
Dissolved Aluminum
Dissolved Iron
Total Phosphorus
Nitrate-N
10/17/05
12/31/05
01/14/06
02/17/06

Figure 4.4.43 Load Trend Analysis for Santa Clara River



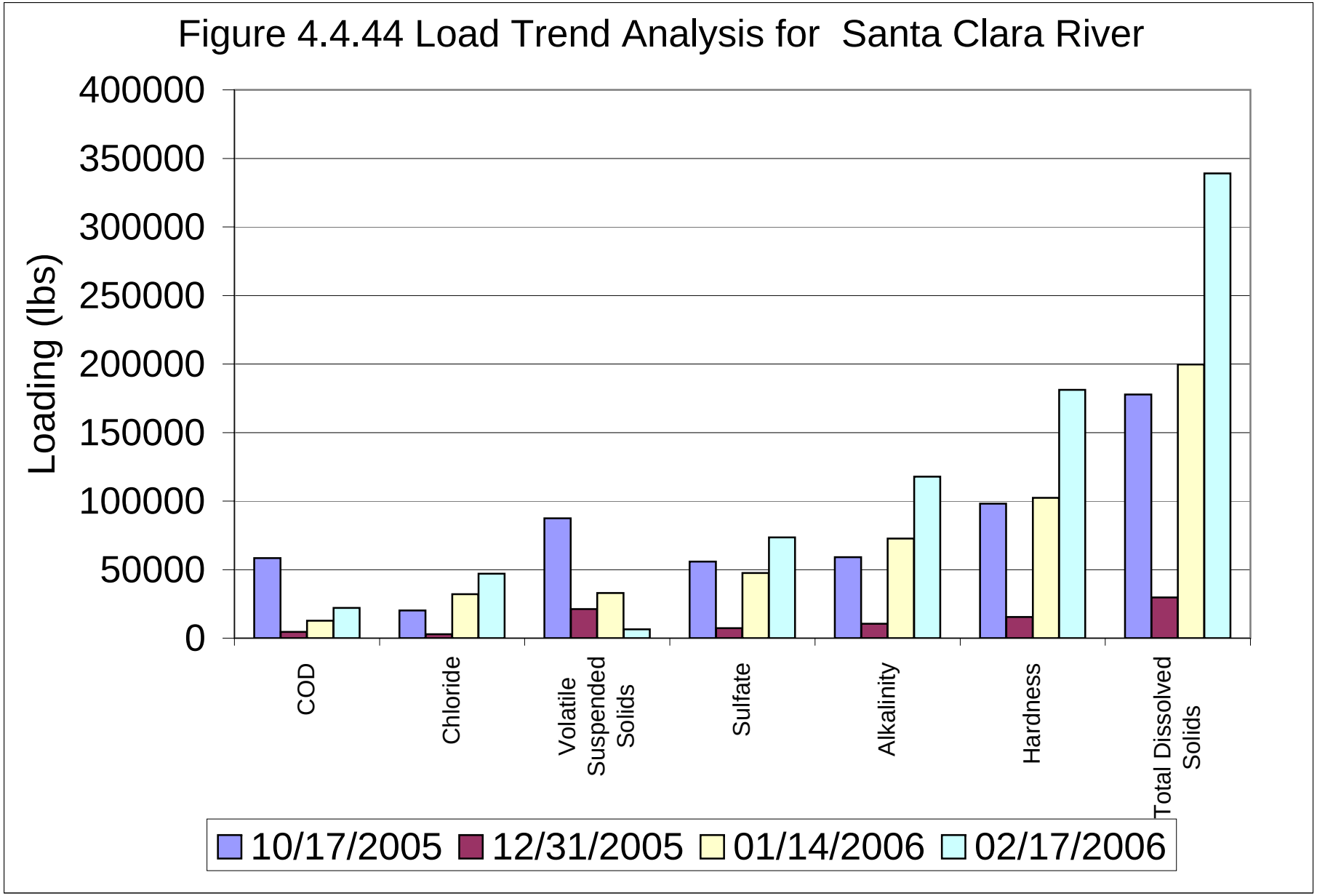


Figure 4.4.44 Load Trend Analysis for Santa Clara River
Loading (lbs)
400000
350000
300000
250000
200000
150000
100000
50000
0
COD
Chloride
Volatile Suspended Solids
Sulfate
Alkalinity
Hardness
Total Dissolved Solids
10/17/2005
12/31/2005
01/14/2006
02/17/2006