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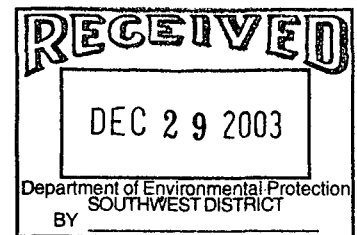
CITRUS COUNTY CENTRAL LANDFILL

BIENNIAL REPORT 2001-2003

**DEP PERMIT NO. 21375-003-SO
DEP Due Date: December 15, 2003**

Prepared by:

**JONES, EDMUNDS AND ASSOCIATES, INC.
730 N.E. Waldo Road, Building A
Gainesville, Florida 32641-5699**



December 2003

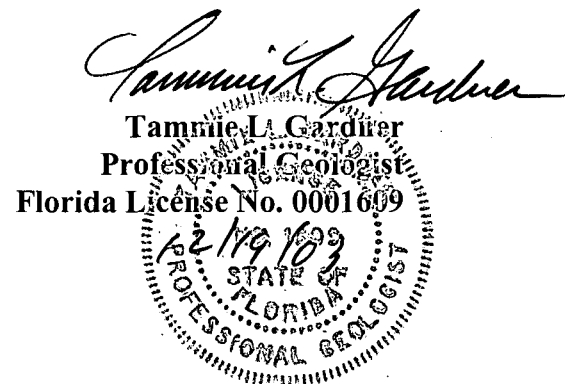


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CITRUS COUNTY CENTRAL LANDFILL
BIENNIAL REPORT 2001-2003

DEP Permit No. 21375-003-SO
I.D. No. SWD/09/39859

1.0 INTRODUCTION

This report summarizes data from the Citrus County Central Landfill from Second Semiannual 2001 through First Semiannual 2003.

The sampling events summarized in this report were conducted on the dates listed in Table 1.1. The period from Second Semiannual 2001 through First Semiannual 2003 is referred to as the "Report Period" throughout this document.

Table 1.1 Summary of Sampling Events during Report Period

Sampling Event	Sampling Dates
Second Semiannual 2001 (01S2)	October 2, 9, and 11, 2001
Fourth Quarter 2001 (01Q4)	October 24, 2001
First Semiannual 2002 (02S1)	January 22, 28, and 29, 2002
Second Quarter 2002 (02Q3)	April 17, 2002
Third Quarter 2002 (02Q3)	July 10, 2002
Second Semiannual 2002 (02S2)	August 7 and 8, 2002
Fourth Quarter 2002 (02Q4)	October 16, 2002
First Semiannual 2003 (03S1)	January 20, 21, 22, and 23, 2003
Second Quarter 2003 (03Q2)	April 15, 2003

The following wells monitor the Floridan aquifer at the Landfill:

Background Wells:	MW-1R, MW-2, MW-3, MW-7
Compliance Well:	MW-E
Detection Wells:	MW-8R, MW-9, MW-AA, MW-B, MW-C, MW-D
Intermediate Well:	MW-6
Water Level Only Wells:	MW-4, MW-5

A map of the Monitoring Well and Leachate sampling locations is presented in Figure 1.

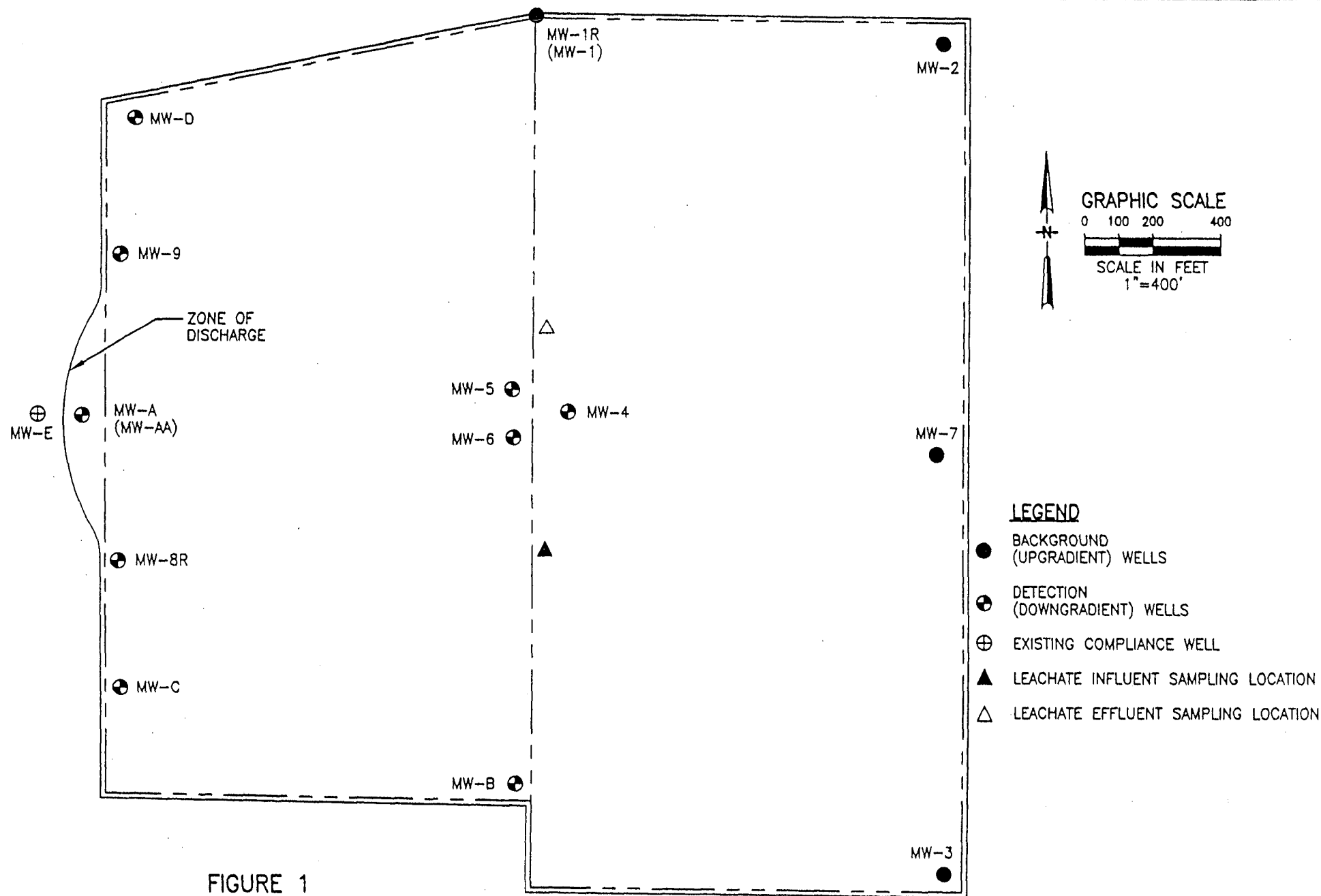


FIGURE 1
Well Locations and Leachate Sampling Locations
Citrus County Central Landfill

2.0 PHYSICAL LOCATION AND GEOLOGICAL SETTING

The Citrus County Central Class I Landfill (landfill) is located in central Citrus County approximately three miles east of Lecanto, Florida, near State Road 44. The landfill is located at latitude 28° 51' 08" North and longitude 82° 26' 38 " West in Section 1, Township 19 South, Range 18 East.

The landfill is composed of a closed 60-acre landfill and an active 20-acre landfill. The active landfill is a lined cell with a leachate collection system. With the exception of seven acres, the closed landfill is unlined and is not served by a leachate collection system. The entire closed landfill is capped with a membrane and soil cover.

The landfill lies within the Hernando Hammock physiographic subdivision of the Ocala Uplift District as described by Brooks (1981). This region is characterized by remnant erosional hills and ridges, which are in-filled with thick, weathered deposits of sand and clayey sand. The landfill is also within the northern portion the Brooksville Ridge. The Brooksville Ridge is characterized as an extensive, internally drained, karst terrain with high local relief.

Regional geology in the landfill area is typically characterized by undifferentiated sands and clays of the Hawthorn Group. The thickness and continuity of the sediments varies greatly in the area. The sand and clays act as a partial confining unit for the Floridan aquifer in some parts of the region. Beneath the undifferentiated sands and clays lies a thick sequence of Eocene age carbonate deposits, which generally consist of the Suwannee limestone, Ocala Group, and Avon Park formations.

Site specific geology is characterized by approximately 130 feet of surficial sands ranging from fine to medium sands to clayey, silty fine sands. Several 1-foot to 2-foot clay layers are present between 50 and 80 feet bls. These sediments form a low permeability unit over the Floridan aquifer with an average hydraulic conductivity of 0.024 foot per day. Beneath these sediments lies the Suwannee Formation. The Suwannee has a highly irregular surface beneath the site, with elevations ranging from 80 feet NGVD to -54 feet NGVD.

3.0 APPROPRIATENESS OF MONITORING WELL LOCATIONS

Groundwater contour maps of the Floridan aquifer are presented in Attachment 1. Groundwater flow at the site is generally to the west. Mounding effect is apparent in the vicinity of the on-site percolation ponds located between closed and active landfills. Monitoring wells MW-1R, MW-2, MW-3, and MW-7 are listed as “background” wells. However, it should be noted that MW-1R is located downgradient of the active landfill and upgradient of the closed landfill. The remaining background wells are all located upgradient of both landfills. Monitoring wells MW-4 and MW-5 are listed as piezometers to record water levels only. Monitoring well MW-6 is listed as an “intermediate” well. These wells were installed to monitor on-site percolation ponds located in-between the closed and active landfills.

Table 3.1 presents recorded fluctuations of the potentiometric surface of the Floridan aquifer. A hydrograph is presented in Attachment 2. Groundwater elevations of the Floridan aquifer ranged from approximately 13.38 feet to 0.26 feet NGVD. First Semiannual 2003 was the highest recorded stage; Second Semiannual 2002 was the lowest recorded stage of the Floridan aquifer.

Table 3.1 Maximum/Minimum Groundwater Elevations during Report Period

Monitoring Well	Well Screen Elevation (NGVD)		Groundwater Elevation (NGVD)	
	Top*	Bottom*	Maximum	Minimum
Floridan Aquifer Wells				
MW-1R	3.0	-6.9	6.03	4.52
MW-2	-9.7	-24.7	7.35	6.26
MW-3	16.5	1.5	7.69	4.67
MW-6	6.5	-3.5	13.38	6.47
MW-7	11.7	-8.3	7.50	6.13
MW-8R	10.1	-9.9	6.00	0.26
MW-9	12.6	-7.4	10.13	5.73
MW-AA	0.1	-10.1	6.01	4.11
MW-B	5.6	-14.4	6.04	4.58
MW-C	-75.8	-82.8	5.94	4.08
MW-D	-78.2	-98.2	5.87	4.64
MW-E	-11.9	-8.1	5.99	4.88
Water Levels Only				
MW-4	12.6	2.6	10.72	3.77
MW-5	11.1	1.1	7.70	6.28

Table Notes:

NA = Not Available.

Groundwater Elevations in this table are continuous round measurements.

*Elevations are approximate; based on available well completion information.

4.0 GROUNDWATER QUALITY

Groundwater quality reports have been submitted for each sampling event of the Report Period.

Groundwater standards include the Primary Drinking Water Standards (PDWS), Secondary Drinking Water Standards (SDWS), and Florida Groundwater Guidance Concentrations (FGGC). Several parameters were reported at or outside groundwater standards in the monitoring wells during the Report Period. These parameters include the following:

Field Parameters:	pH
Indicator Parameters:	Chloride
	Nitrate Nitrogen
Metals:	Iron
	Filtered Iron
	Lead
	Thallium
Volatile Organic Compounds:	Benzene
	Bromodichloromethane
	Chloroform
	Dibromochloromethane
	Vinyl Chloride

Attachment 3 presents parameters compared to groundwater standards for the semiannual groundwater sampling events. Presented in Attachment 4 are graphs of the field and laboratory parameters. Attachment 5 presents a historical data summary.

Data collected from the monitoring wells during the Report Period indicate impact on groundwater quality at the Landfill. The parameters reported at or outside groundwater standards are discussed below.

Background pH levels were generally below the SDWS of 6.5 to 8.5 S.U., ranging from 5.11 to 6.73 S.U. Levels in Intermediate well (MW-6) were 4.70 to 5.35 S.U. pH levels in wells MW-C and MW-D were within the SDWS, ranging from 6.56 to 7.91 S.U. Levels in MW-B and MW-6 were below background levels ranging from 4.04 to 4.86 S.U. All other downgradient pH levels were comparable to background.

Chloride was reported above the SDWS of 250 mg/L in MW-6 during Second Semiannual 2002. Levels in MW-6 ranged from 150 to 260 mg/L during the Report Period. Levels reported in the background wells and all other downgradient wells were below the SDWS, ranging from below the Laboratory Detection Limit to 14 mg/L.

Nitrate Nitrogen levels were consistently reported above the PDWS of 10 mg/L in MW-6, ranging from 13 to 22 mg/L. Background Nitrate Nitrogen ranged from below the Laboratory Detection Limit to 2.4 mg/L. All downgradient wells, with the exception of MW-6, reported Nitrate Nitrogen levels comparable to background, ranging from below the Laboratory Detection Limit to 1.3 mg/L.

Iron levels were reported above the SDWS of 300 µg/L in all wells, with the exception of MW-B, at least one time during the Report Period. Background wells reported Iron from below the Laboratory Detection Limit to 3,100 µg/L. The highest levels were consistently reported in MW-E, MW-8R, MW-9, and MW-AA ranging from 2,400 to 11,000 µg/L. The remaining downgradient wells reported Iron levels comparable to background, ranging from below the Laboratory Detection Limit to 4,900 µg/L.

Filtered Iron was reported below the Laboratory Detection Limit in MW-7, MW-9, MW-B, and MW-C. Iron levels reported in MW-E, MW-AA, and MW-9 were generally higher, ranging from below the Laboratory Detection Limit to 5,300 µg/L.

Lead levels were reported above the PDWS of 15 µg/L in MW-1R, MW-3, MW-8R, MW-9, and MW-6 at least once during the Report Period. The level of 5,800 µg/L reported in MW-9 during the Second Semiannual 2001 event is suspected to be a laboratory reporting error. Subsequent sampling events during the Report Period reported Lead below the Laboratory Detection Limit in MW-9.

Thallium was reported above the PDWS of 2 µg/L in MW-3 during First Semiannual 2002 only, at a level of 50µg/L. Thallium was not detected in subsequent events or in the other wells during the Report Period. The level reported during Second Semiannual 2002 is considered to be anomalous.

Benzene was detected above the PDWS of 1 µg/L in downgradient wells MW-8R, MW-AA, and MW-6, with the highest levels reported in MW-8R, ranging from 3.8 to 5.5 µg/L. Benzene concentrations appear to be fairly stable over time and consistent with historical values. Background levels of Benzene were all below the Laboratory Detection Limit during the Report Period.

Bromodichloromethane levels above the FGGC of 0.6 µg/L were reported in intermediate well MW-6, ranging from 2.5 to 4.0 µg/L. Bromodichloromethane was not detected in any of the other wells during the Report Period.

Chloroform was reported above the FGGC of 5.7 µg/L in downgradient well MW-6, ranging from 3.2 to 6.1 µg/L. Chloroform was reported below the FGGC but above the Laboratory Detection Limit in background wells MW-2 and MW-3, ranging from 1.1 to 3.3 µg/L. All other wells reported Chloroform below the Laboratory Detection Limit during the entire Report Period.

Dibromochloromethane was reported above the FGGC of 0.4 µg/L in downgradient well MW-6, ranging from 2.4 to 3.4 µg/L. All other wells reported Dibromochloromethane below the Laboratory Detection Limit for the entire Report Period.

Vinyl Chloride was reported above the PDWS of 1 µg/L in all detection wells except MW-C and MW-D ranging from below the laboratory detection limit to 4.3 µg/L. Vinyl Chloride concentrations appear to be fairly stable over time and consistent with historical values. Vinyl Chloride was not detected in any of the background wells during the Report Period.

During the Report Period, Ammonia Nitrogen, Total Dissolved Solids, Arsenic, Filtered Arsenic, Barium, Filtered Barium, Cobalt, Filtered Cobalt, Copper, Nickel, Sodium, Filtered Sodium, Zinc, Filtered Zinc, 1,1-Dichloroethane, 1,4-Dichlorobenzene, Acetone, Bromoform, Chlorobenzene, Cis-

1,2-Dichloroethylene, Trichloroethene, Xylenes, and Total Trihalomethanes were also detected in some wells, but they did not exceed groundwater standards. Some of these reported parameters were isolated occurrences, displayed no trend, or were not confirmed in subsequent sampling events.

5.0 LEACHATE DATA

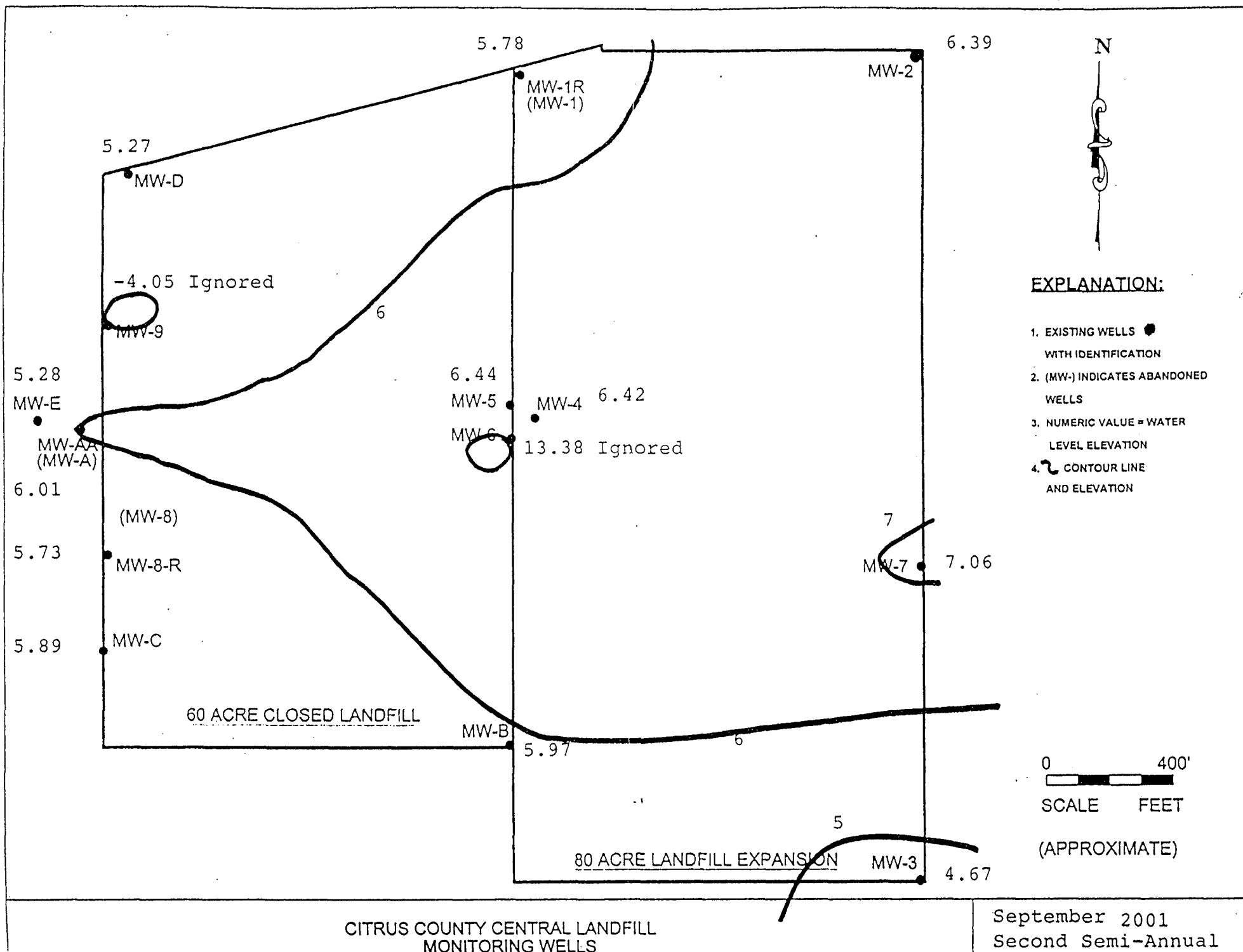
Attachment 6 presents graphs of the leachate parameters reported at, or above, the Laboratory Detection Limit. Leachate chemistry data for the Report Period is also included in Attachment 5. Only Chloride, Total Dissolved Solids, and Sodium were consistently reported at, or above groundwater standards. Sodium levels reported during Fourth Quarter 2001 and Third Quarter 2002 appear to be anomalous and are most likely a lab error in reporting units. Florida Groundwater Standards listed in Rules 62-520.400 and 62-520.420 do not apply to Sodium, Chloride, and Total Dissolved Solids in the leachate, as stated in permit specific condition 32. Each of the following was reported at least once during the Report Period at or above groundwater standards: Antimony, Iron, Lead, Benzene, Bromodichloromethane, Bromoform, Chloroform, Dibromochloromethane, and Vinyl Chloride.

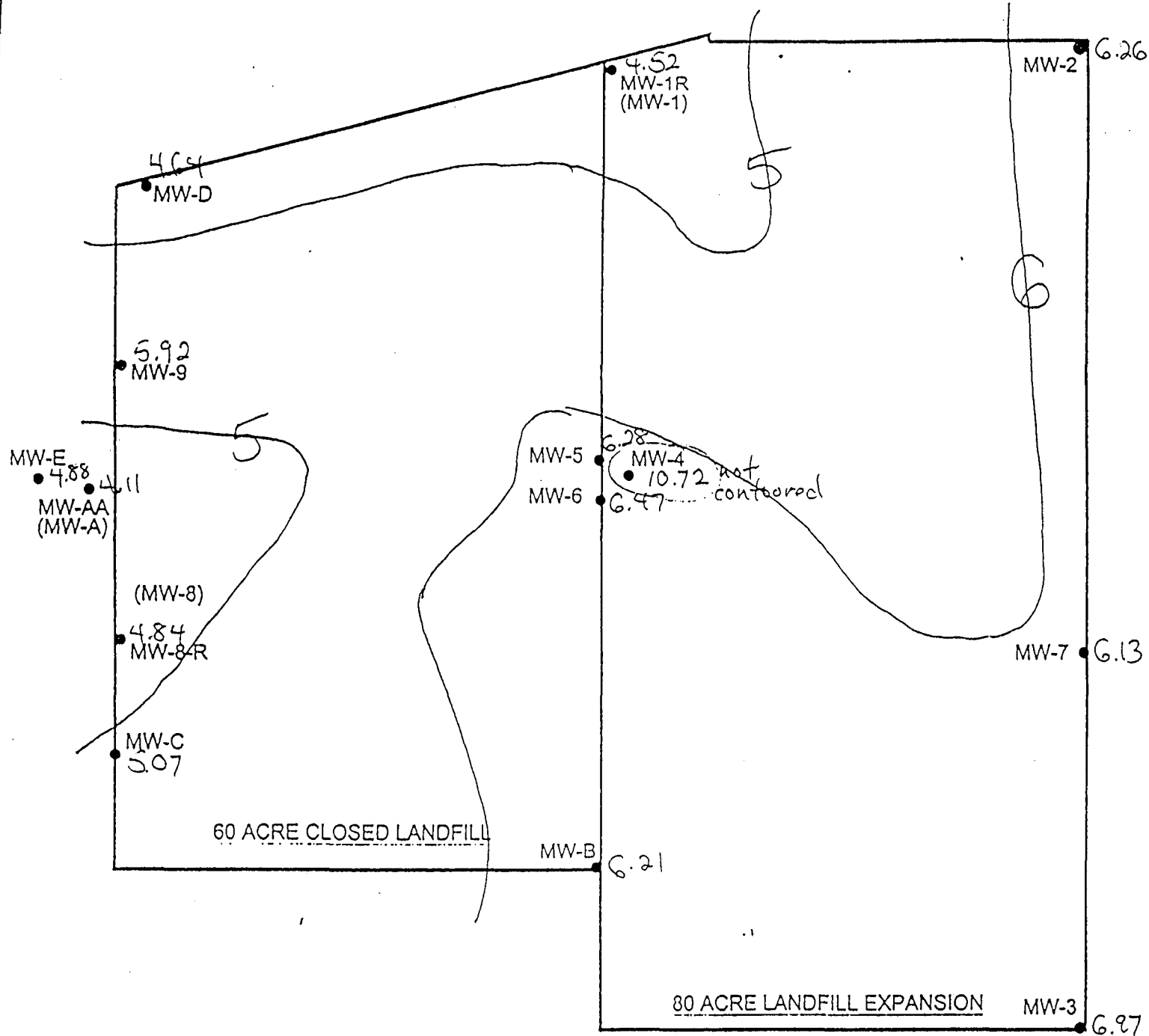
6.0 SUMMARY

In summary, compliance groundwater monitoring wells are placed on the north, south, west, and east sides of the Landfill. This well placement should be adequate to detect potential contamination emanating from the Closure Area.

Groundwater quality at the Landfill has been impacted. The most significant impact to groundwater quality appears to be in MW-6 and MW-8, where levels of Benzene and Vinyl Chloride are above the PDWS. The levels observed during the Report Period were consistent with historical levels. Additional assessment activities beyond those already completed do not appear warranted at this time. Continued semiannual monitoring is recommended.

ATTACHMENT 1
GROUNDWATER CONTOUR MAPS



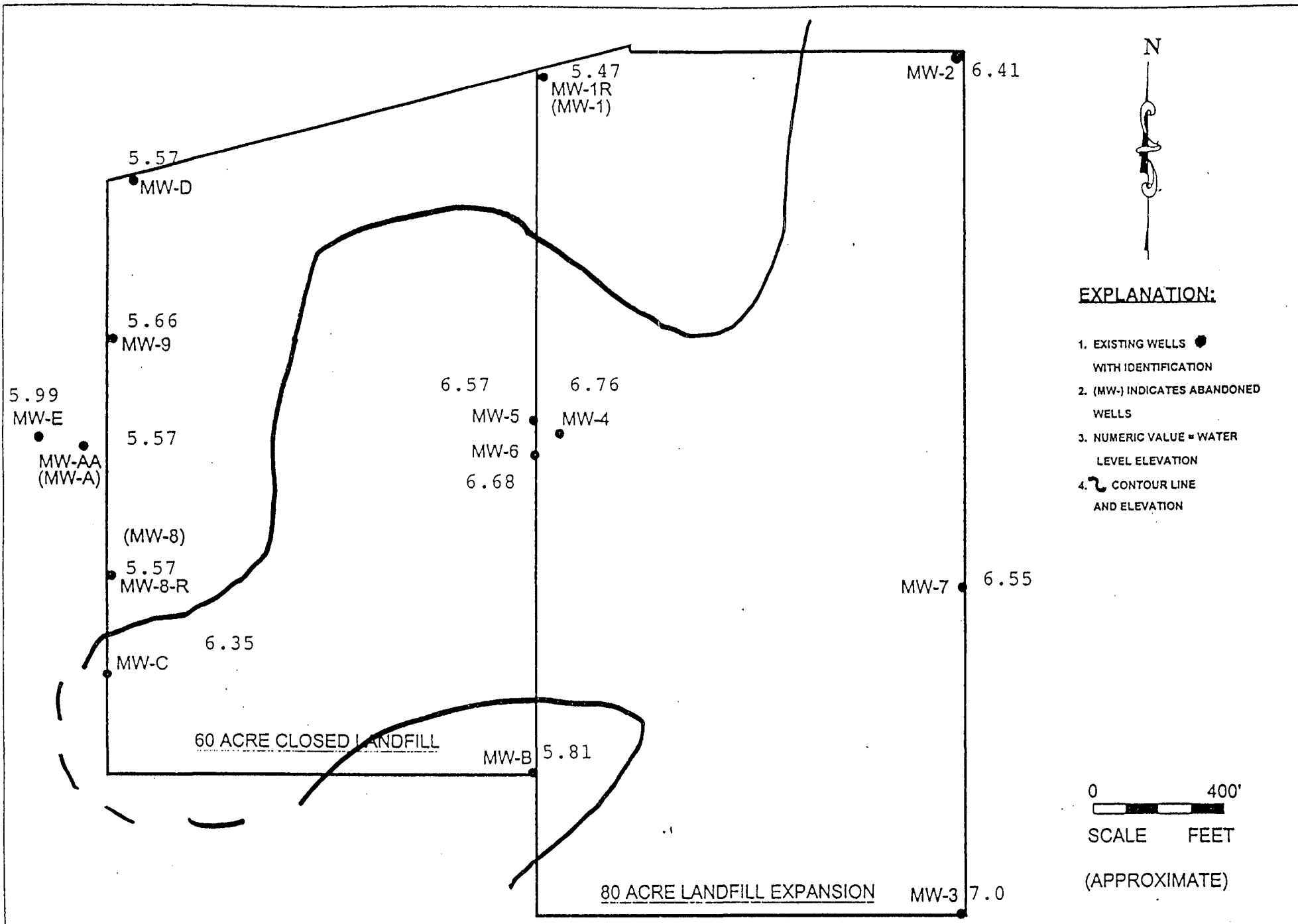


EXPLANATION:

1. EXISTING WELLS ●
WITH IDENTIFICATION
2. (MW-) INDICATES ABANDONED
WELLS
3. NUMERIC VALUE = WATER
LEVEL ELEVATION
4. ~ CONTOUR LINE
AND ELEVATION

0 400'
SCALE FEET

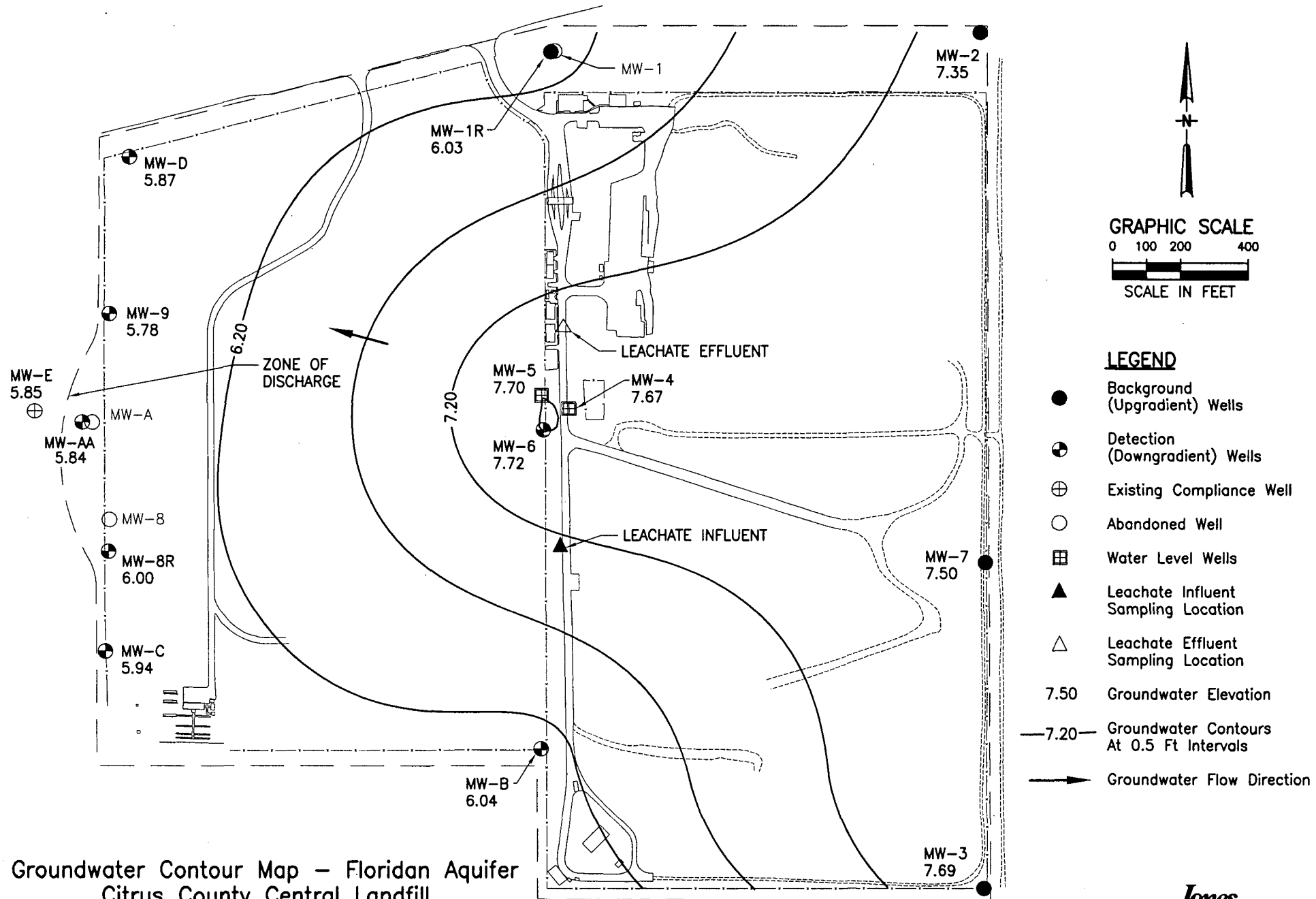
(APPROXIMATE)



EXPLANATION:

1. EXISTING WELLS ● WITH IDENTIFICATION
2. (MW-) INDICATES ABANDONED WELLS
3. NUMERIC VALUE = WATER LEVEL ELEVATION
4. ~ CONTOUR LINE AND ELEVATION

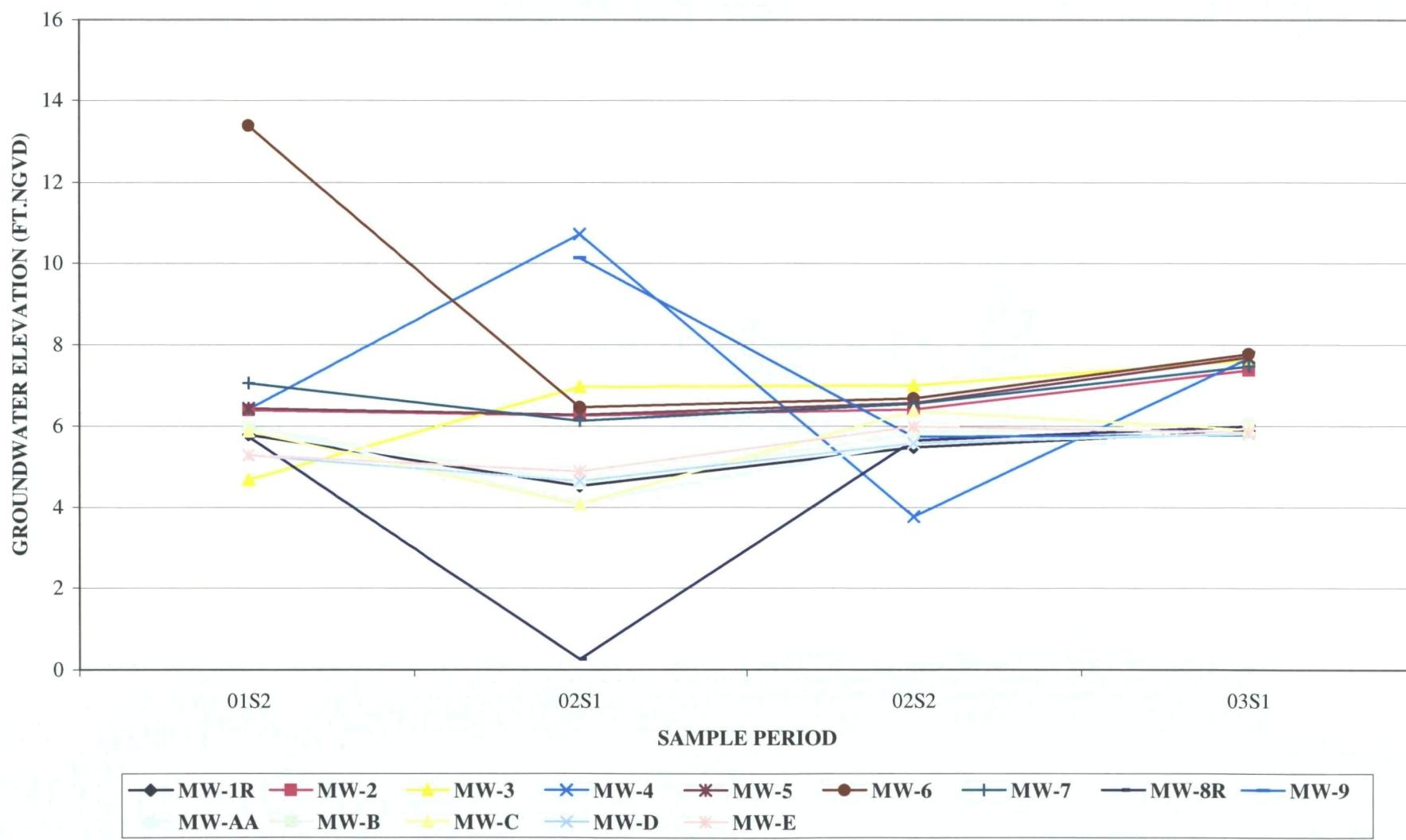
0 400'
SCALE FEET
(APPROXIMATE)



Groundwater Contour Map - Floridan Aquifer
Citrus County Central Landfill
January 20, 2003

ATTACHMENT 2
HYDROGRAPHS

CITRUS COUNTY CENTRAL LANDFILL HYDROGRAPH OF FLORIDAN AQUIFER



ATTACHMENT 3

**ANALYSIS RESULTS COMPARED TO
GROUNDWATER STANDARDS**

**ANALYSIS RESULTS COMPARED TO GROUNDWATER
STANDARDS AND/OR GUIDANCE CONCENTRATIONS
CITRUS COUNTY CENTRAL LANDFILL
SECOND SEMIANNUAL - 2001**

PARAMETER		pH (FIELD)	NITRATE NITROGEN	IRON	IRON: FILTERED	LEAD	BENZENE	BROMO- DICHLORO- METHANE	DIBROMO- CHLORO- METHANE	VINYL CHLORIDE
STANDARD		6.5-8.5 S.U.**	10 mg/L*	300 µg/L**	300 µg/L**	15 µg/L*	1 µg/L*	0.6 µg/L***	0.4 µg/L***	1 µg/L*
Background										
MW-1R	10/11/2001	5.73	-	3100	NM	81	-	-	-	-
MW-2	10/9/2001	5.54	-	-	NM	-	-	-	-	-
MW-3	10/9/2001	5.46	-	-	NM	15 @	-	-	-	-
MW-7	10/9/2001	-	-	1100	NM	-	-	-	-	-
Compliance										
MW-E	10/2/2001	-	-	4700	NM	-	-	-	-	-
Detection										
MW-8R	10/2/2001	5.35	-	3700	NM	32	3.8	-	-	4
MW-9	10/2/2001	-	-	7600	NM	5800	-	-	-	1.1
MW-AA	10/2/2001	6.21	-	7500	NM	-	1.2	-	-	-
MW-B	10/2/2001	4.86	-	NM	-	NM	-	-	-	-
MW-C	10/9/2001	-	-	-	NM	-	-	-	-	-
MW-D	10/11/2001	-	-	NM	1000	NM	-	-	-	-
Intermediate										
MW-6	10/2/2001	4.43	13	-	NM	76	-	3.4	3	2.5

LEGEND

- * =Primary Drinking Water Standard
- ** =Secondary Drinking Water Standard
- *** =Florida Groundwater Guidance Concentration
- @ =Analysis Result is at Groundwater Standard or Florida Groundwater Guidance Concentration
- =Analysis Result is not at or outside Groundwater Standard or Florida Groundwater Guidance Concentration
- NS =Not Sampled
- NM =Not Measured

Note:

This table displays analysis results which were reported at or outside Groundwater Standards or Florida Groundwater Guidance Concentrations. Analysis results notated with "@" indicate that the analysis result was reported at the Groundwater Standard or Florida Groundwater Guidance Concentration. Analysis results which were reported above the laboratory detection limit (reporting limit), but not at or above the Groundwater Standard or Florida Groundwater Guidance Concentration are not displayed in this table.

**ANALYSIS RESULTS COMPARED TO GROUNDWATER
STANDARDS AND/OR GUIDANCE CONCENTRATIONS
CITRUS COUNTY CENTRAL LANDFILL
FIRST SEMIANNUAL 2002**

PARAMETER		pH (FIELD)	NITRATE NITROGEN	IRON	IRON: FILTERED	LEAD	THALLIUM	BENZENE	BROMO- DICHLORO- METHANE	CHLORO- FORM	DIBROMO- CHLORO- METHANE	VINYL CHLORIDE
STANDARD		6.5-8.5 S.U.**	10 mg/L*	300 µg/L**	300 µg/L**	15 µg/L*	2 µg/L*	1 µg/L*	0.6 µg/L***	5.7 µg/L***	0.4 µg/L***	1 µg/L*
Background												
MW-1R	1/29/2002	5.82	-	-	NM	-	-	-	-	-	-	-
MW-2	1/29/2002	5.6	-	-	NM	-	-	-	-	-	-	-
MW-3	1/29/2002	5.57	-	-	NM	41	50	-	-	-	-	-
MW-7	1/29/2002	6.48	-	-	NM	-	-	-	-	-	-	-
Compliance												
MW-E	1/28/2002	-	-	11000	NM	-	-	-	-	-	-	1.3
Detection												
MW-8R	1/28/2002	4.8	-	2400	NM	-	-	4.3	-	-	-	3.7
MW-9	1/28/2002	6.49	-	9100	NM	-	-	-	-	-	-	1 @
MW-AA	1/28/2002	6.3	-	7500	NM	-	-	1.2	-	-	-	2.8
MW-B	1/29/2002	4.41	-	-	NM	-	-	-	-	-	-	-
MW-C	1/28/2002	-	-	-	NM	-	-	-	-	-	-	-
MW-D	1/28/2002	-	-	NM	5300	NM	NM	-	-	-	-	-
Intermediate												
MW-6	1/22/2002	4.4	19	1300	NM	40	-	1.4	3.9	6.1	3.2	4

LEGEND

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**ANALYSIS RESULTS COMPARED TO GROUNDWATER
STANDARDS AND/OR GUIDANCE CONCENTRATIONS
CITRUS COUNTY CENTRAL LANDFILL
SECOND SEMIANNUAL 2002**

PARAMETER		pH (FIELD)	CHLORIDE	NITRATE NITROGEN	IRON	IRON: FILTERED	LEAD	BENZENE	BROMO- DICHLORO- METHANE	DIBROMO- CHLORO- METHANE	VINYL CHLORIDE
STANDARD		6.5-8.5 S.U.**	250 mg/L**	10 mg/L*	300 µg/L**	300 µg/L**	15 µg/L*	1 µg/L*	0.6 µg/L***	0.4 µg/L***	1 µg/L*
Background											
MW-1R	8/8/2002	5.58	-	-	570	NM	-	-	-	-	-
MW-2	8/8/2002	6.11	-	-	340	NM	-	-	-	-	-
MW-3	8/8/2002	5.28	-	-	-	NM	20	-	-	-	-
MW-7	8/8/2002	6.42	-	-	NM	-	NM	-	-	-	-
Compliance											
MW-E	8/8/2002	-	-	-	NM	320	NM	-	-	-	1.4
Detection											
MW-8R	8/7/2002	5.18	-	-	2700	NM	-	4.9	-	-	4.3
MW-9	8/8/2002	-	-	-	NM	-	NM	-	-	-	1.3
MW-AA	8/8/2002	6.29	-	-	NM	4500	NM	1.4	-	-	3.6
MW-B	8/8/2002	4.67	-	-	-	NM	-	-	-	-	1.5
MW-C	8/7/2002	-	-	-	NM	-	NM	-	-	-	-
MW-D	8/7/2002	-	-	-	NM	-	NM	-	-	-	-
Intermediate											
MW-6	8/8/2002	4.3	260	22	-	NM	-	1.1	4	3.4	3.3

LEGEND

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**ANALYSIS RESULTS COMPARED TO GROUNDWATER
STANDARDS AND/OR GUIDANCE CONCENTRATIONS
CITRUS COUNTY CENTRAL LANDFILL
FIRST SEMIANNUAL - 2003**

PARAMETER		pH (FIELD)	NITRATE NITROGEN	IRON	LEAD	BENZENE	BROMO- DICHLORO- METHANE	DIBROMO- CHLORO- METHANE	VINYL CHLORIDE
STANDARD		6.5-8.5 S.U.**	10 mg/L*	300 µg/L**	15 µg/L*	1 µg/L*	0.6 µg/L***	0.4 µg/L***	1 µg/L*
Background									
MW-1R	1/23/2003	5.19	-	325	-	-	-	-	-
MW-2	1/21/2003	5.11	-	-	-	-	-	-	-
MW-3	1/23/2003	5.19	-	694	-	-	-	-	-
MW-7	1/21/2003	5.85	-	NM	NM	-	-	-	-
Compliance									
MW-E	1/20/2003	6.33	-	10500	-	-	-	-	-
Detection									
MW-8R	1/20/2003	4.7	-	2770	-	5.5	-	-	3.8
MW-9	1/21/2003	6.35	-	8970	-	-	-	-	1.2
MW-AA	1/20/2003	6.03	-	9400	-	1.5	-	-	2.6
MW-B	1/22/2003	4.04	-	-	-	-	-	-	1.4
MW-C	1/23/2003	-	-	4900	-	-	-	-	-
MW-D	1/23/2003	-	-	417	-	-	-	-	-
Intermediate									
MW-6	1/22/2003	4.04	17.2	-	16.2	1.5	2.5	2.4	3.1
QAQC									
EQUBLK1	1/22/2003	NM	-	-	-	-	-	-	-
TRIP1	1/20/2003	NM	NM	NM	NM	-	-	-	-
TRIP2	1/21/2003	NM	NM	NM	NM	-	-	-	-
TRIP3	1/22/2003	NM	NM	NM	NM	-	-	-	-
TRIP4	1/23/2003	NM	NM	NM	NM	-	-	-	-

LEGEND

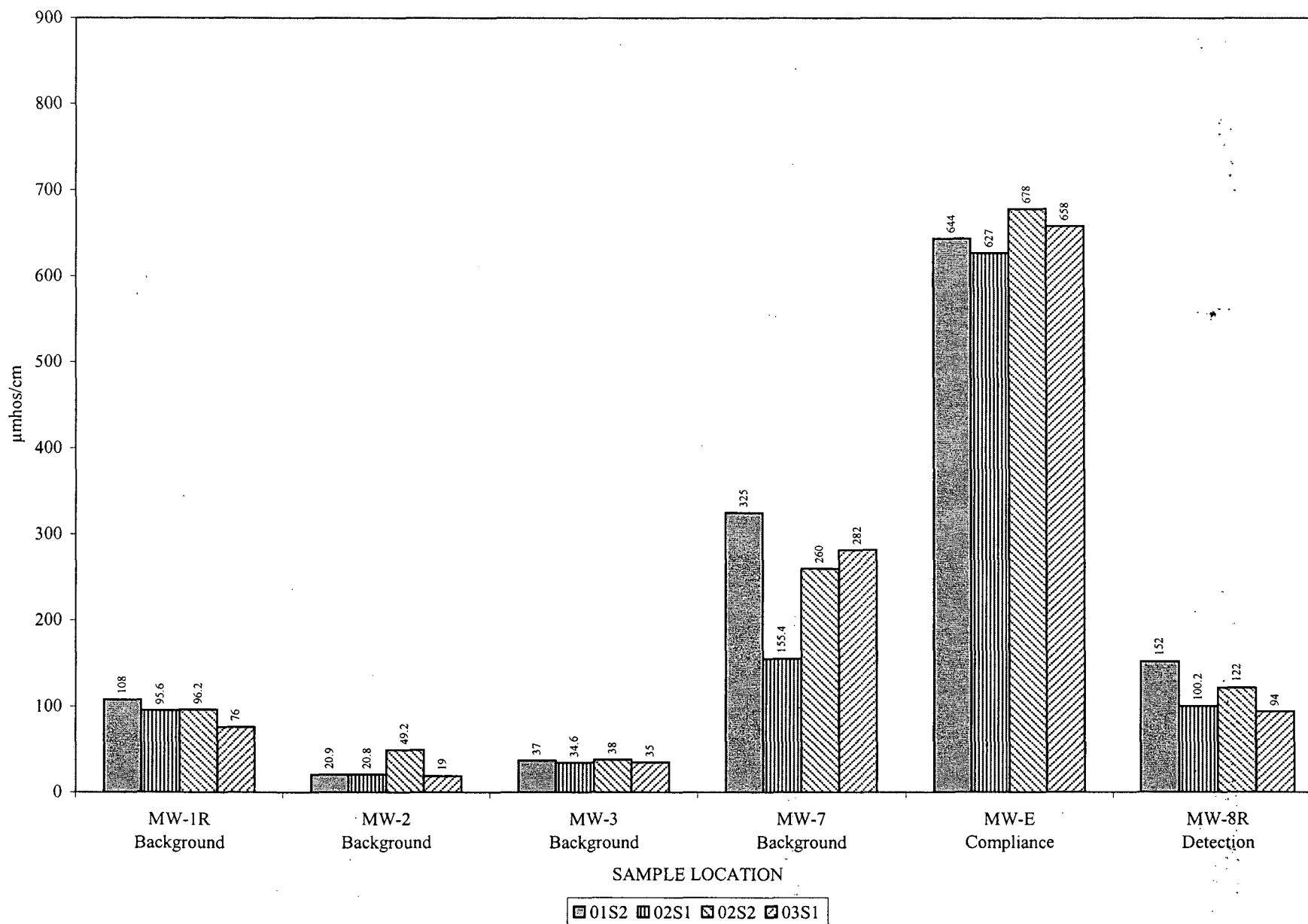
- * =Primary Drinking Water Standard
- ** =Secondary Drinking Water Standard
- *** =Florida Groundwater Guidance Concentration
- @ =Analysis Result is at Groundwater Standard or Florida Groundwater Guidance Concentration
- =Analysis Result is not at or outside Groundwater Standard or Florida Groundwater Guidance Concentration
- NS =Not Sampled
- NM =Not Measured

Note:

This table displays analysis results which were reported at or outside Groundwater Standards or Florida Groundwater Guidance Concentrations. Analysis results notated with "@" indicate that the analysis result was reported at the Groundwater Standard or Florida Groundwater Guidance Concentration. Analysis results which were reported above the laboratory detection limit (reporting limit), but not at or above the Groundwater Standard or Florida Groundwater Guidance Concentration are not displayed in this table.

ATTACHMENT 4
GROUNDWATER GRAPHS

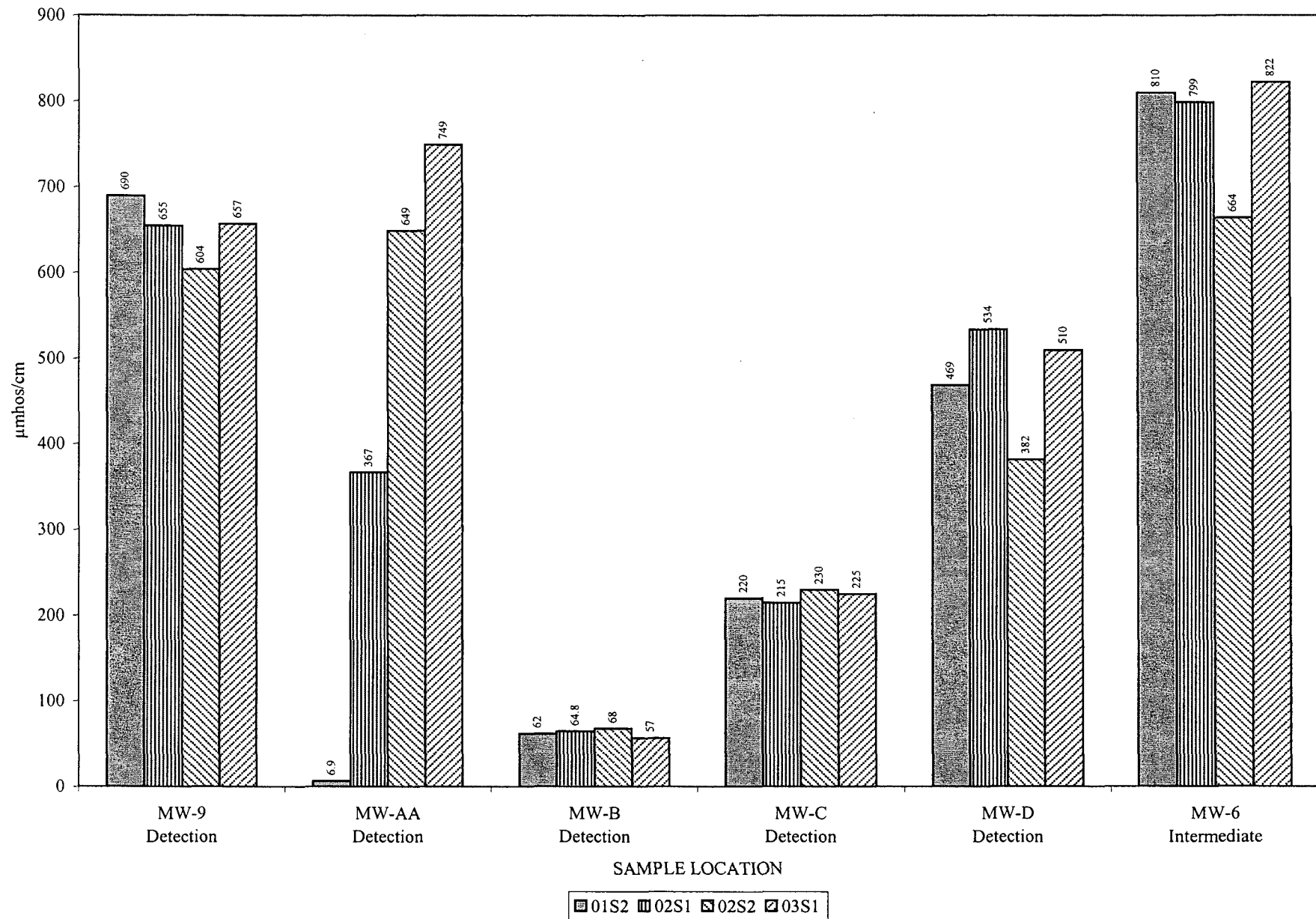
CONDUCTIVITY (FIELD) **CITRUS COUNTY CENTRAL LANDFILL** **GROUNDWATER CHEMISTRY GRAPH**



0 = BELOW LABORATORY DETECTION LIMIT

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\GWGraphs.xls:COND

CONDUCTIVITY (FIELD) **CITRUS COUNTY CENTRAL LANDFILL** **GROUNDWATER CHEMISTRY GRAPH**

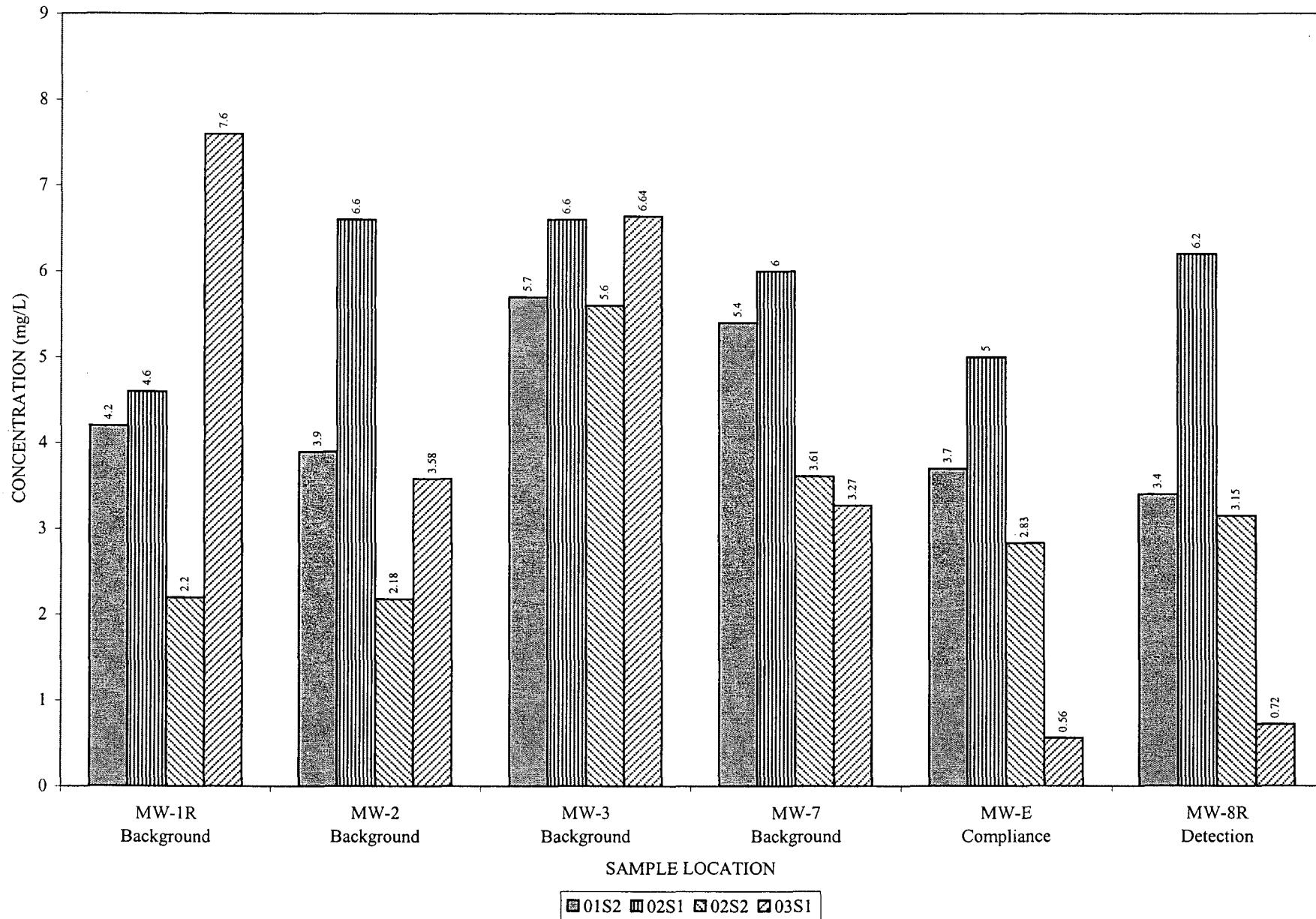


0 = BELOW LABORATORY DETECTION LIMIT

DISSOLVED OXYGEN (FIELD)

CITRUS COUNTY CENTRAL LANDFILL

GROUNDWATER CHEMISTRY GRAPH



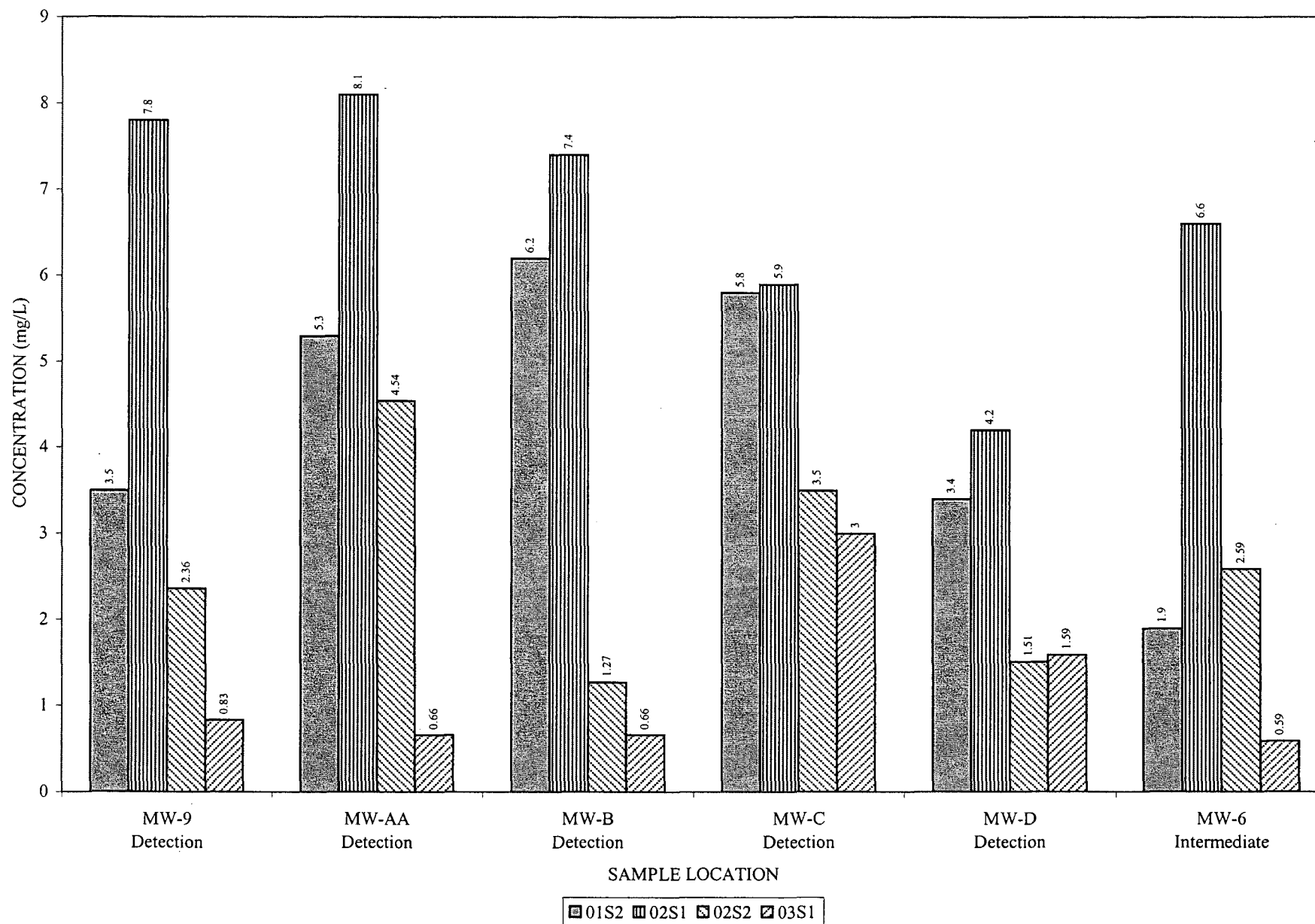
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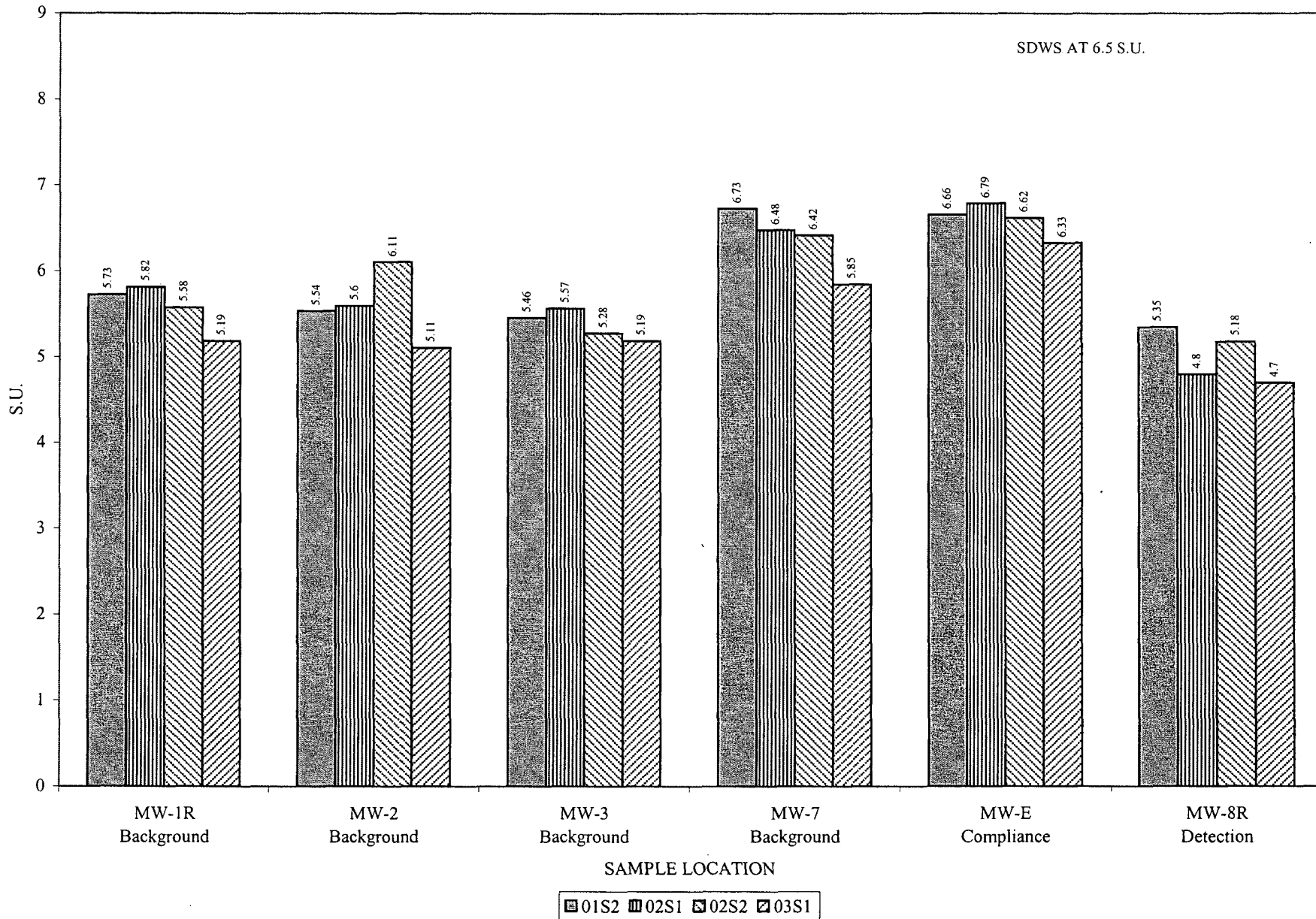
DISSOLVED OXYGEN (FIELD)

CITRUS COUNTY CENTRAL LANDFILL

GROUNDWATER CHEMISTRY GRAPH



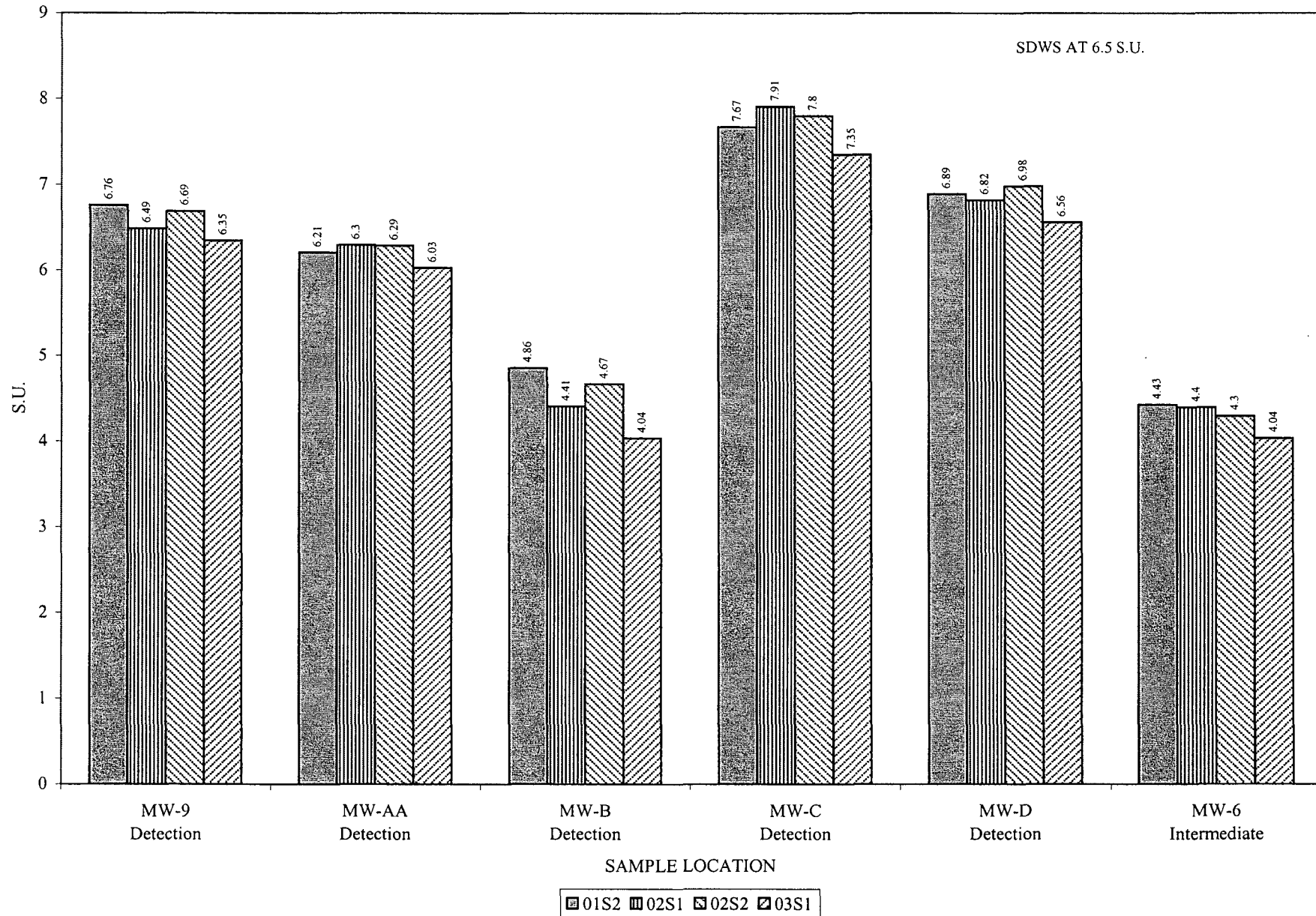
pH (FIELD)
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\GWGraphs.xls:PH

pH (FIELD)
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH

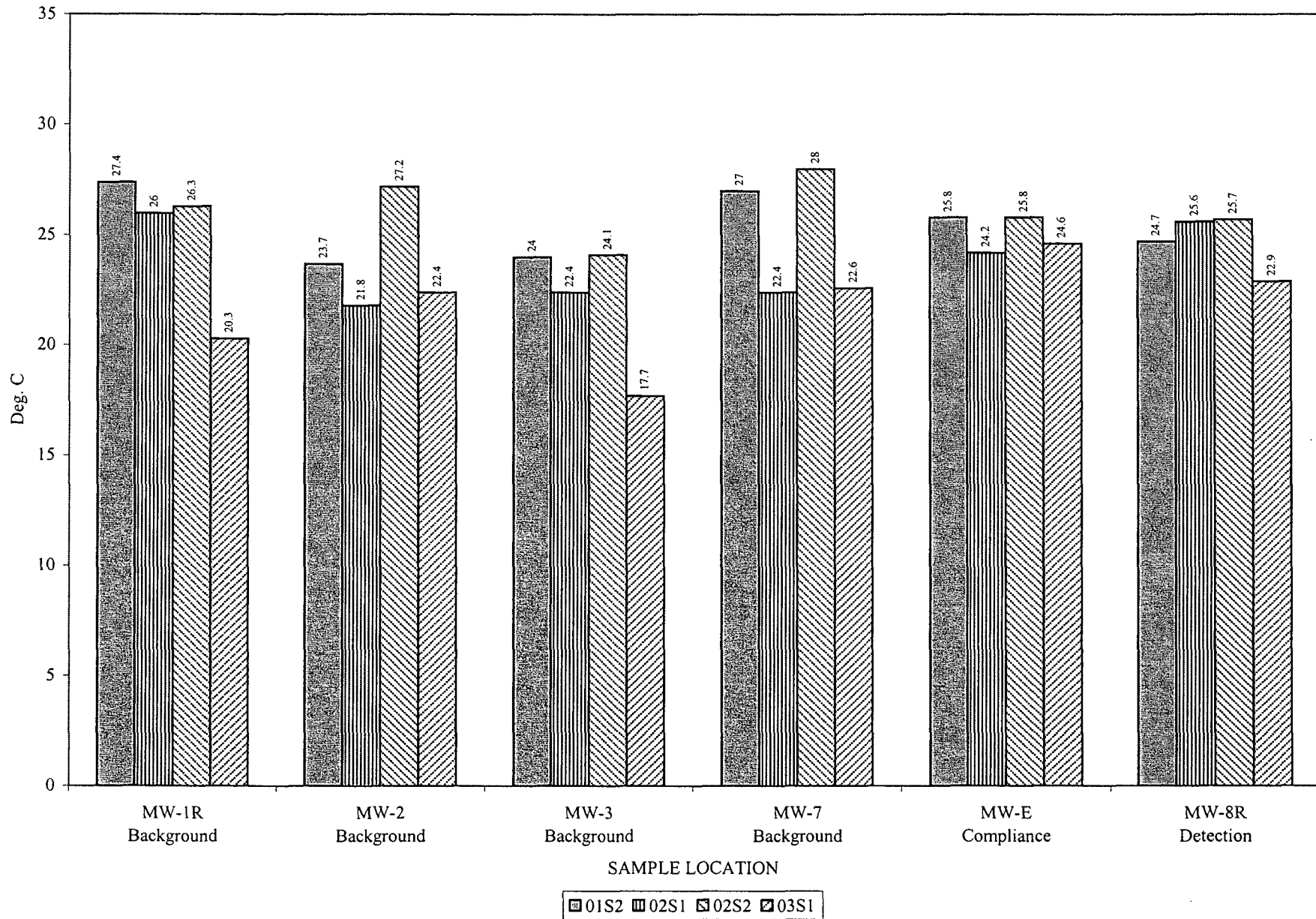


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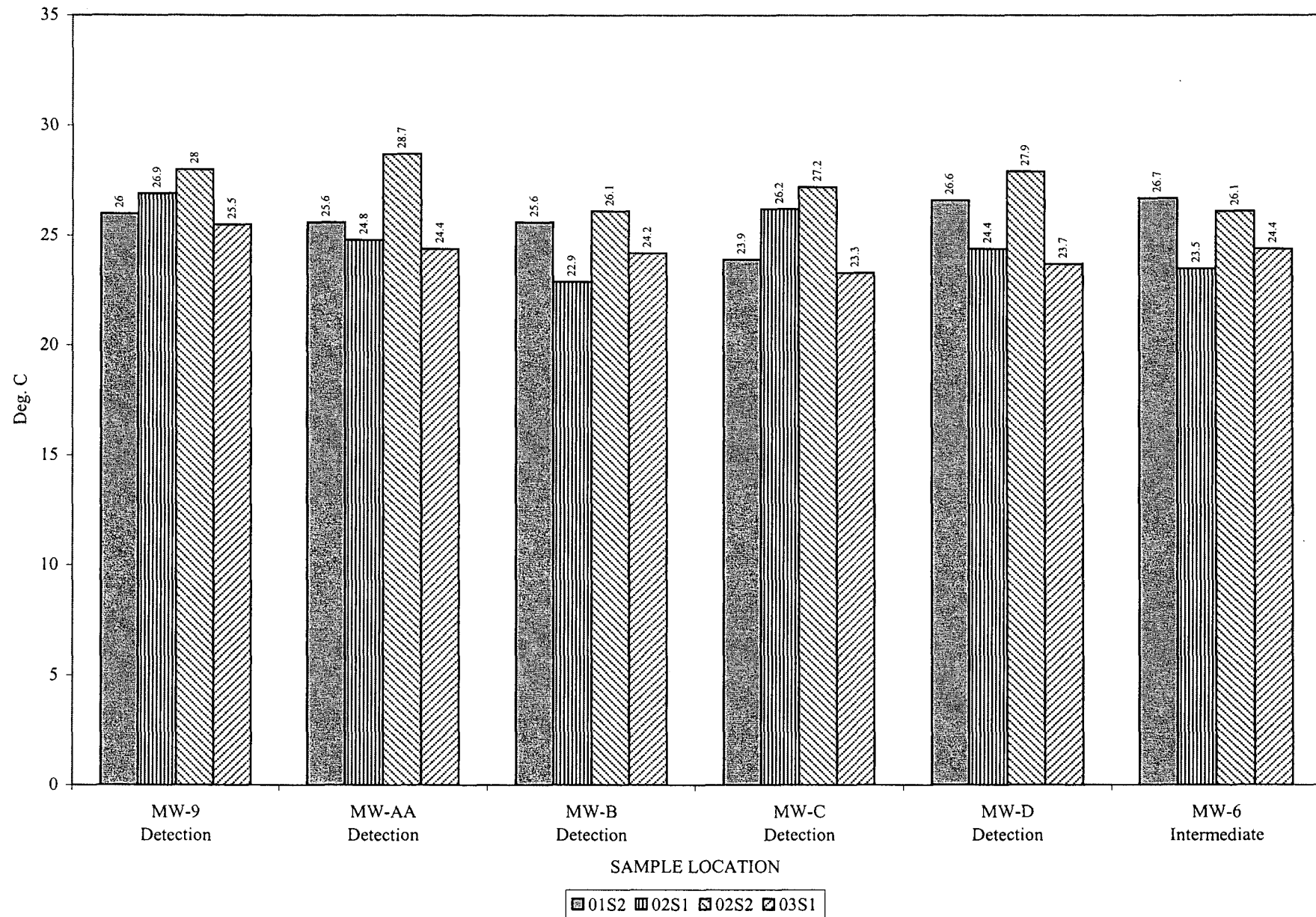
TEMPERATURE (FIELD)

CITRUS COUNTY CENTRAL LANDFILL

GROUNDWATER CHEMISTRY GRAPH

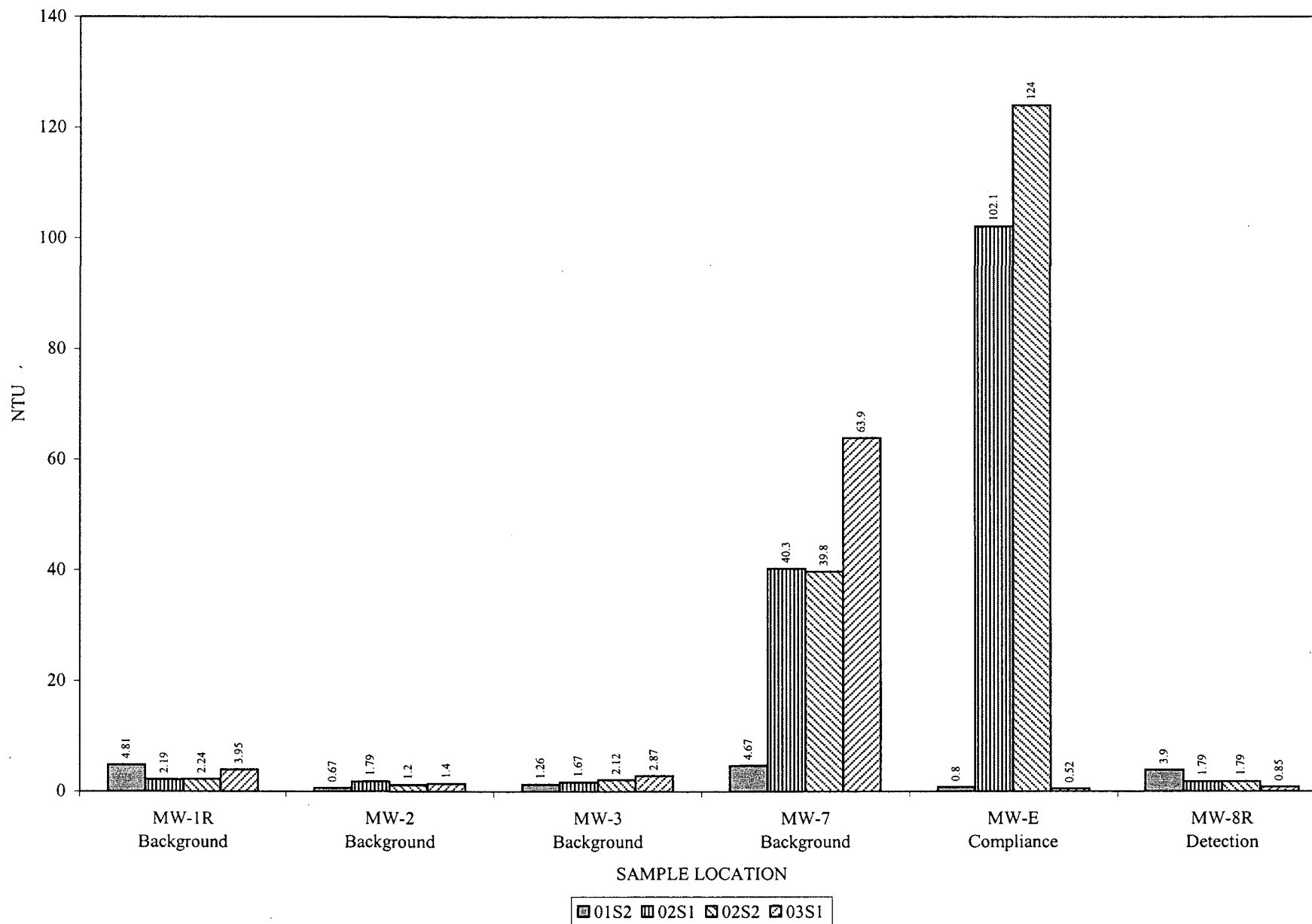


TEMPERATURE (FIELD) **CITRUS COUNTY CENTRAL LANDFILL** **GROUNDWATER CHEMISTRY GRAPH**



0 = BELOW LABORATORY DETECTION LIMIT

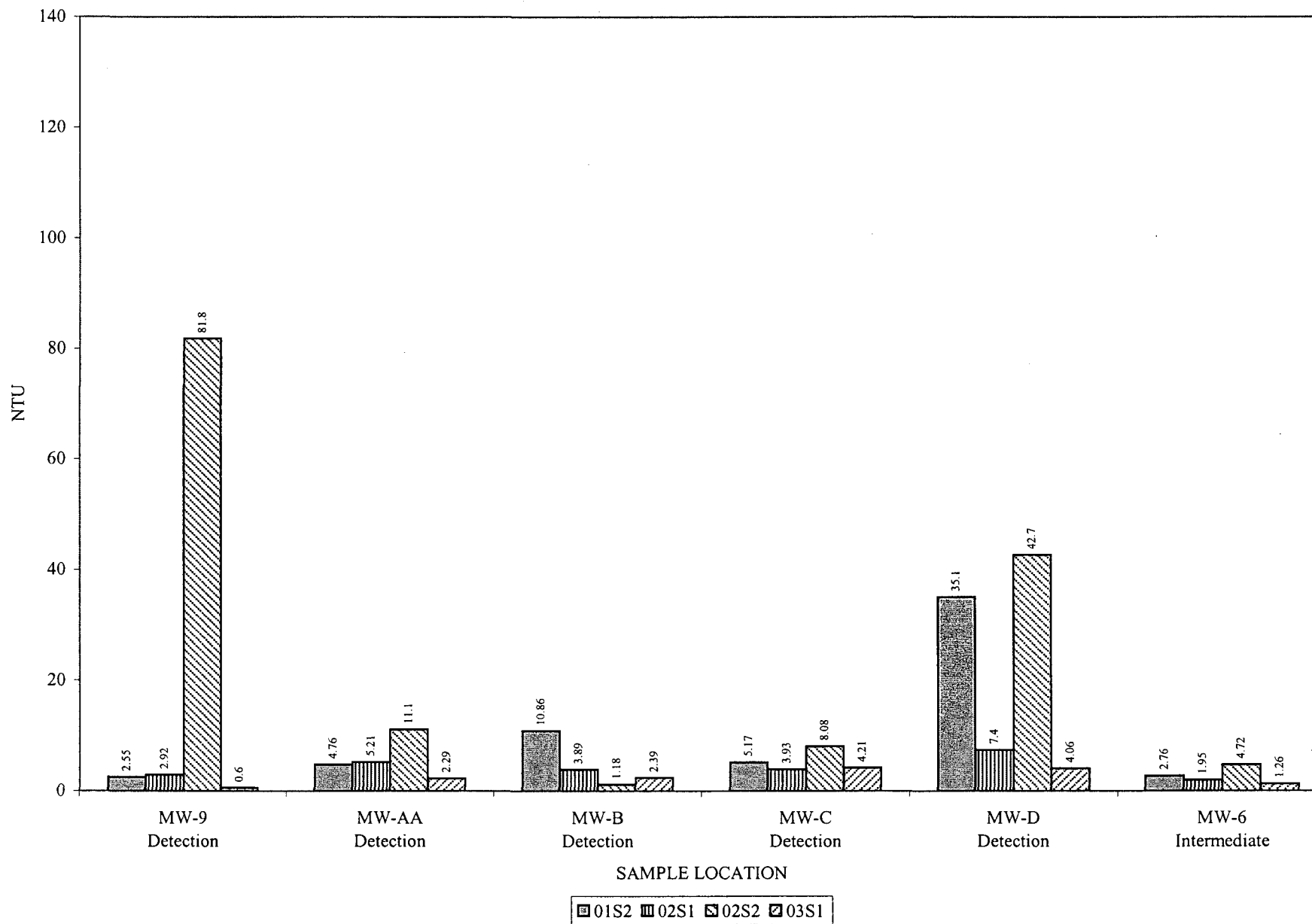
TURBIDITY (FIELD)
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

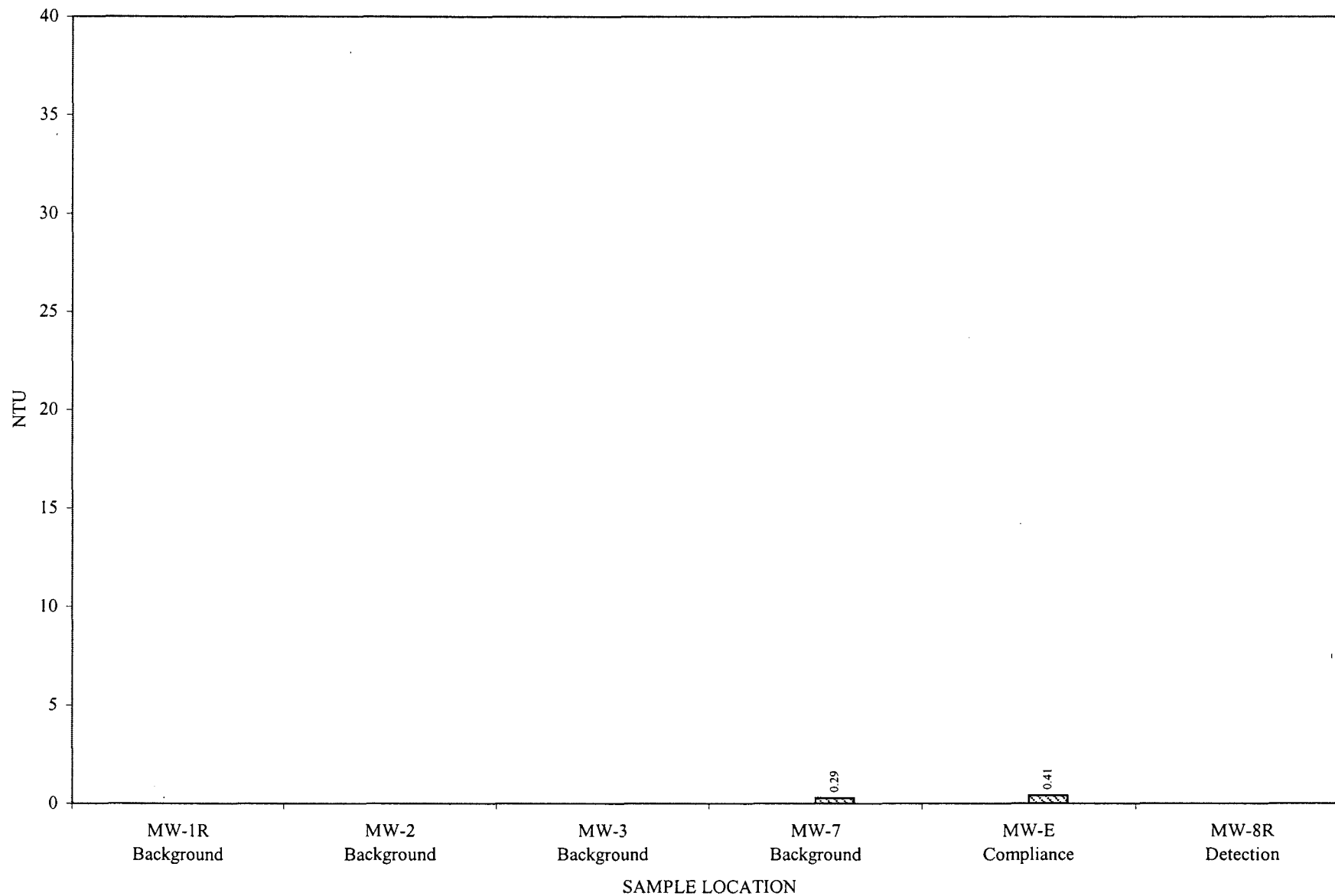
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TURBIDITY (FIELD)
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

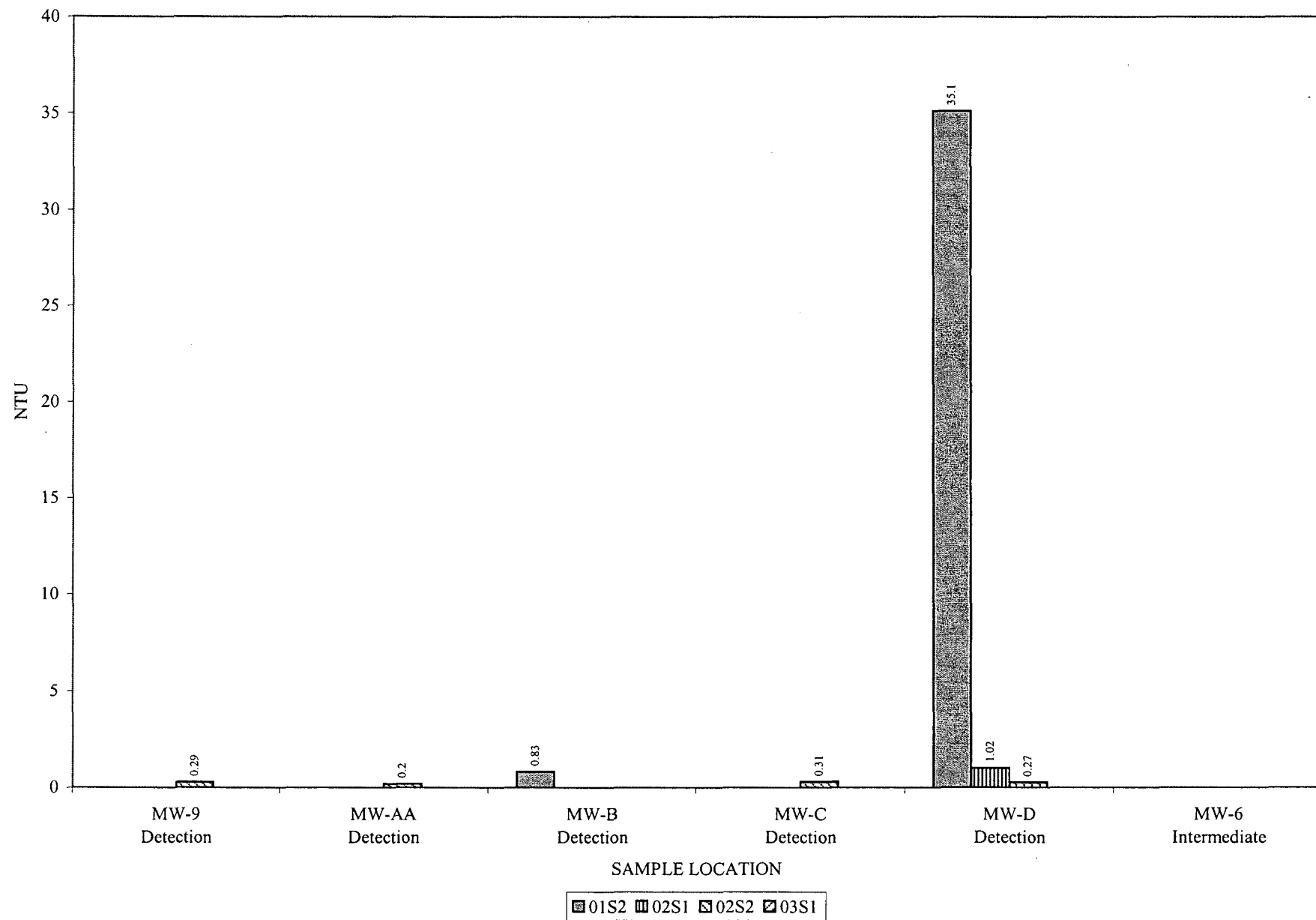
TURBIDITY, FILTERED
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

01S2 02S1 02S2 03S1

TURBIDITY, FILTERED
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH

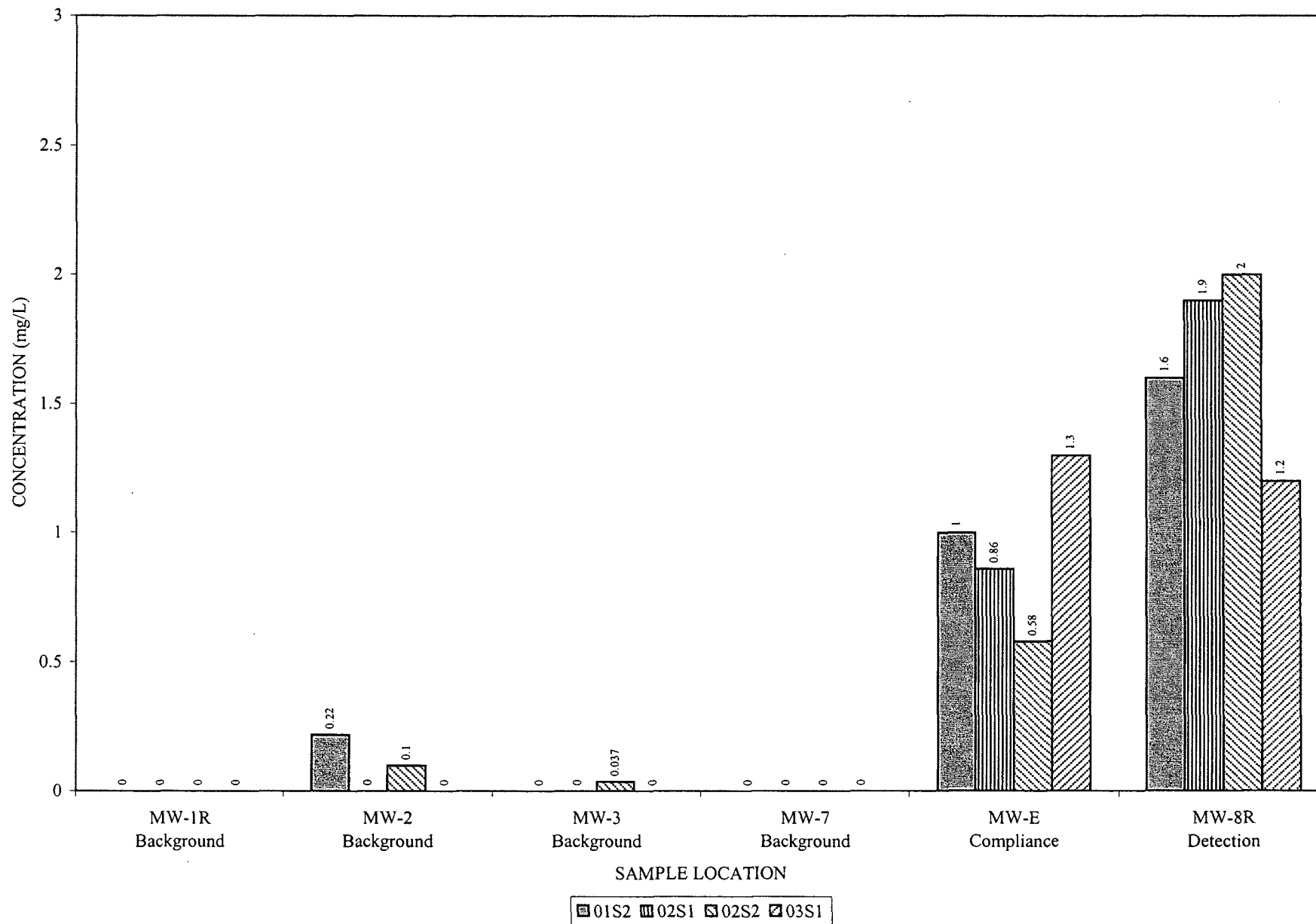


0 = BELOW LABORATORY DETECTION LIMIT

AMMONIA NITROGEN

CITRUS COUNTY CENTRAL LANDFILL

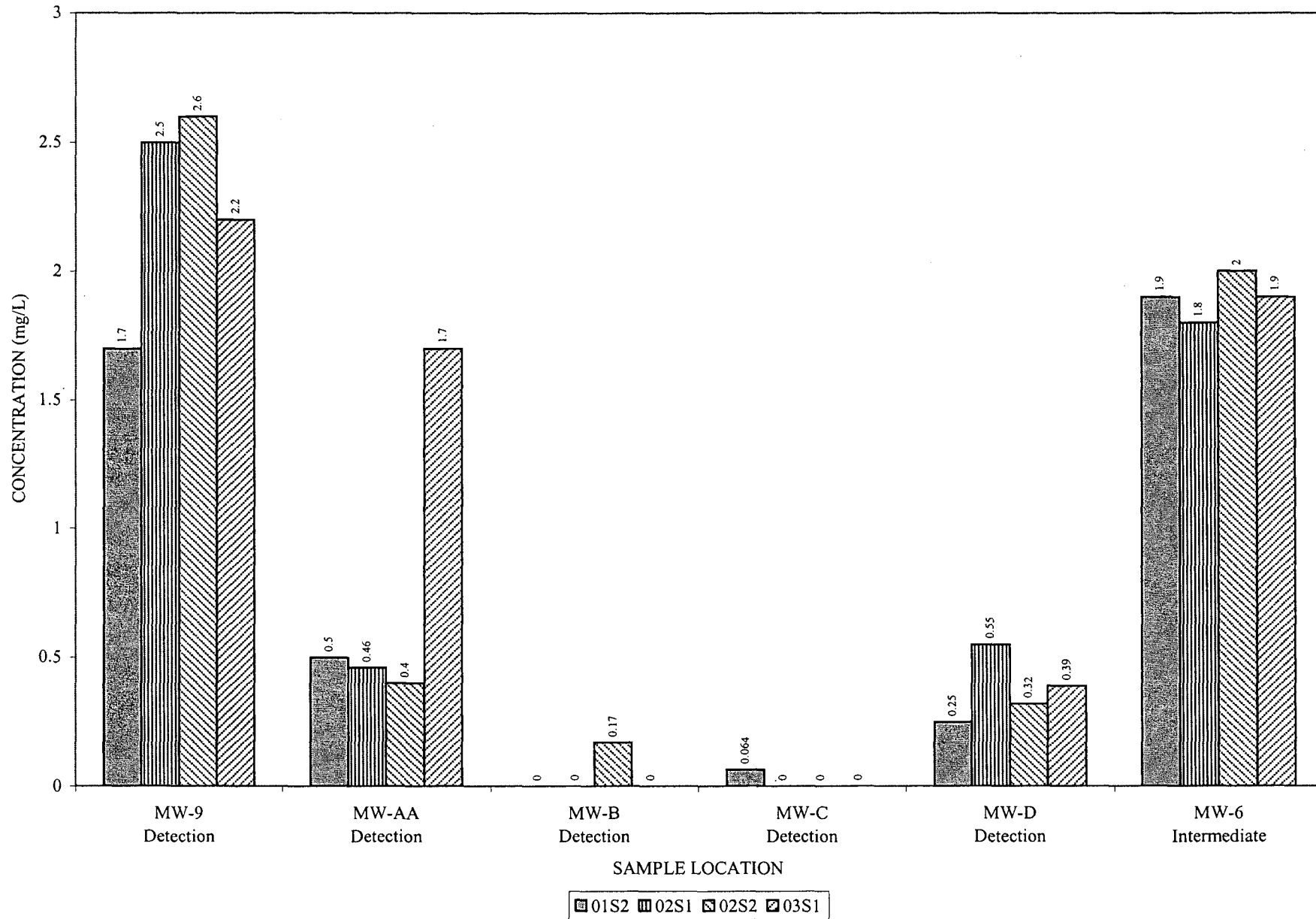
GROUNDWATER CHEMISTRY GRAPH



AMMONIA NITROGEN

CITRUS COUNTY CENTRAL LANDFILL

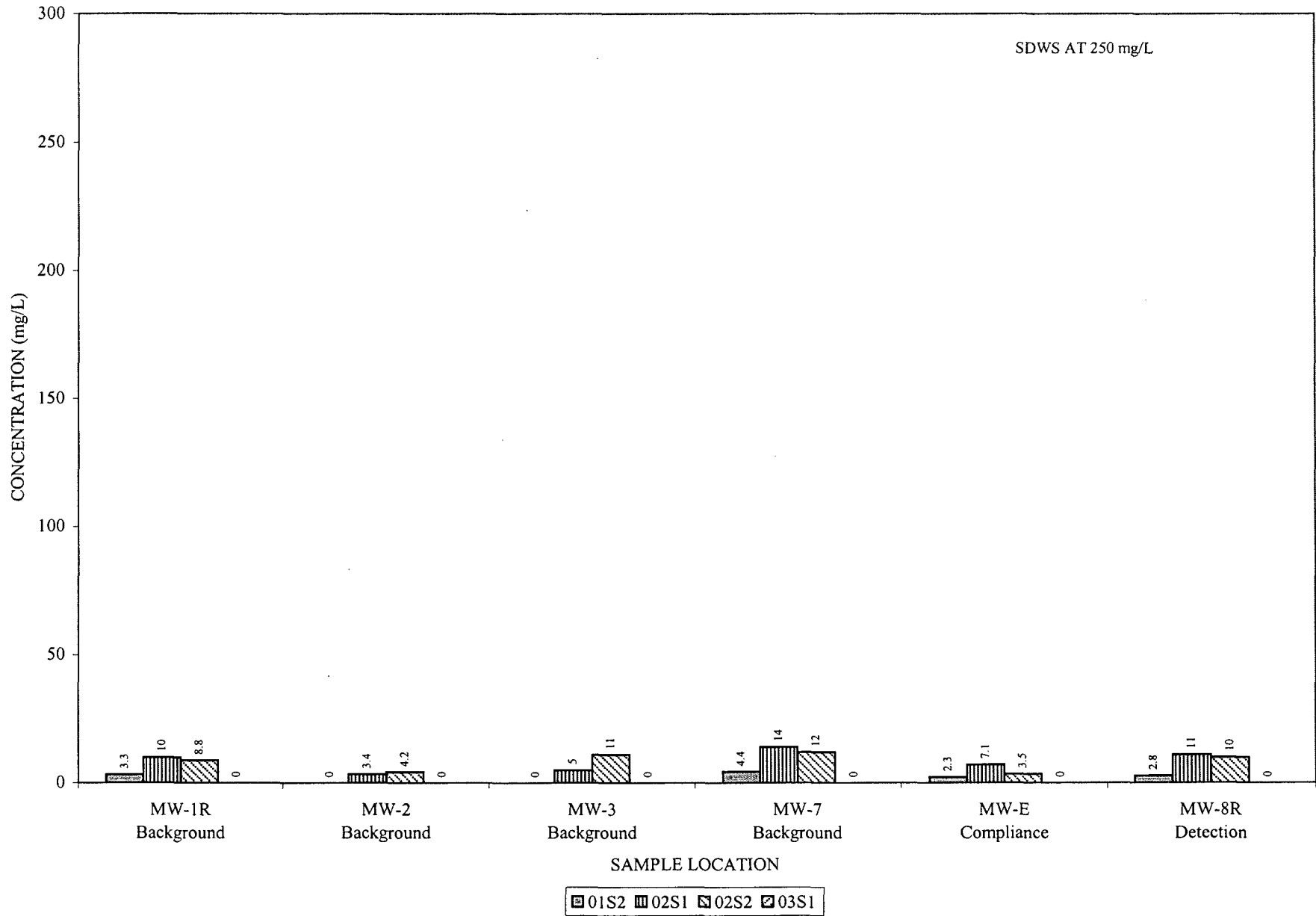
GROUNDWATER CHEMISTRY GRAPH



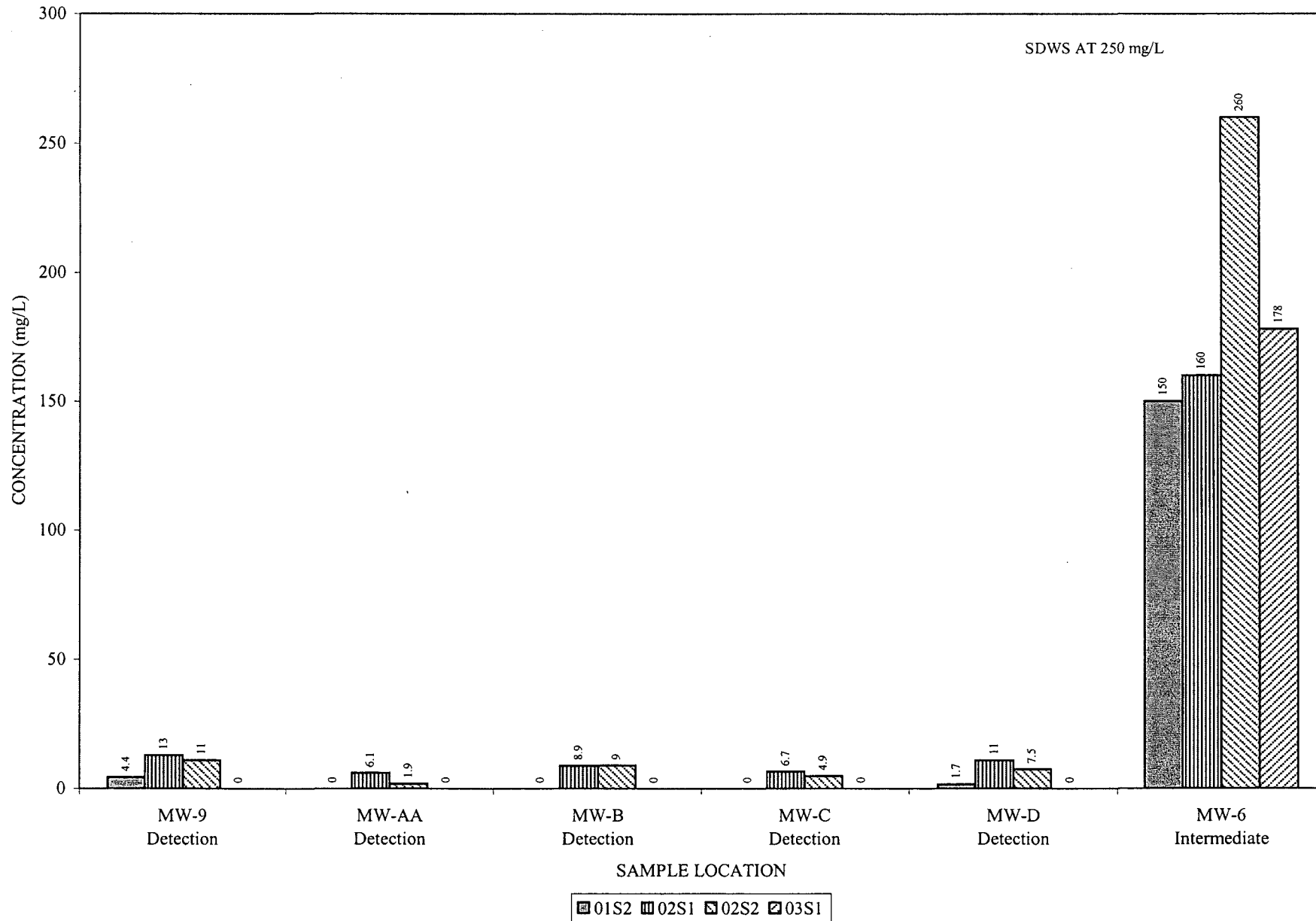
CHLORIDE

CITRUS COUNTY CENTRAL LANDFILL

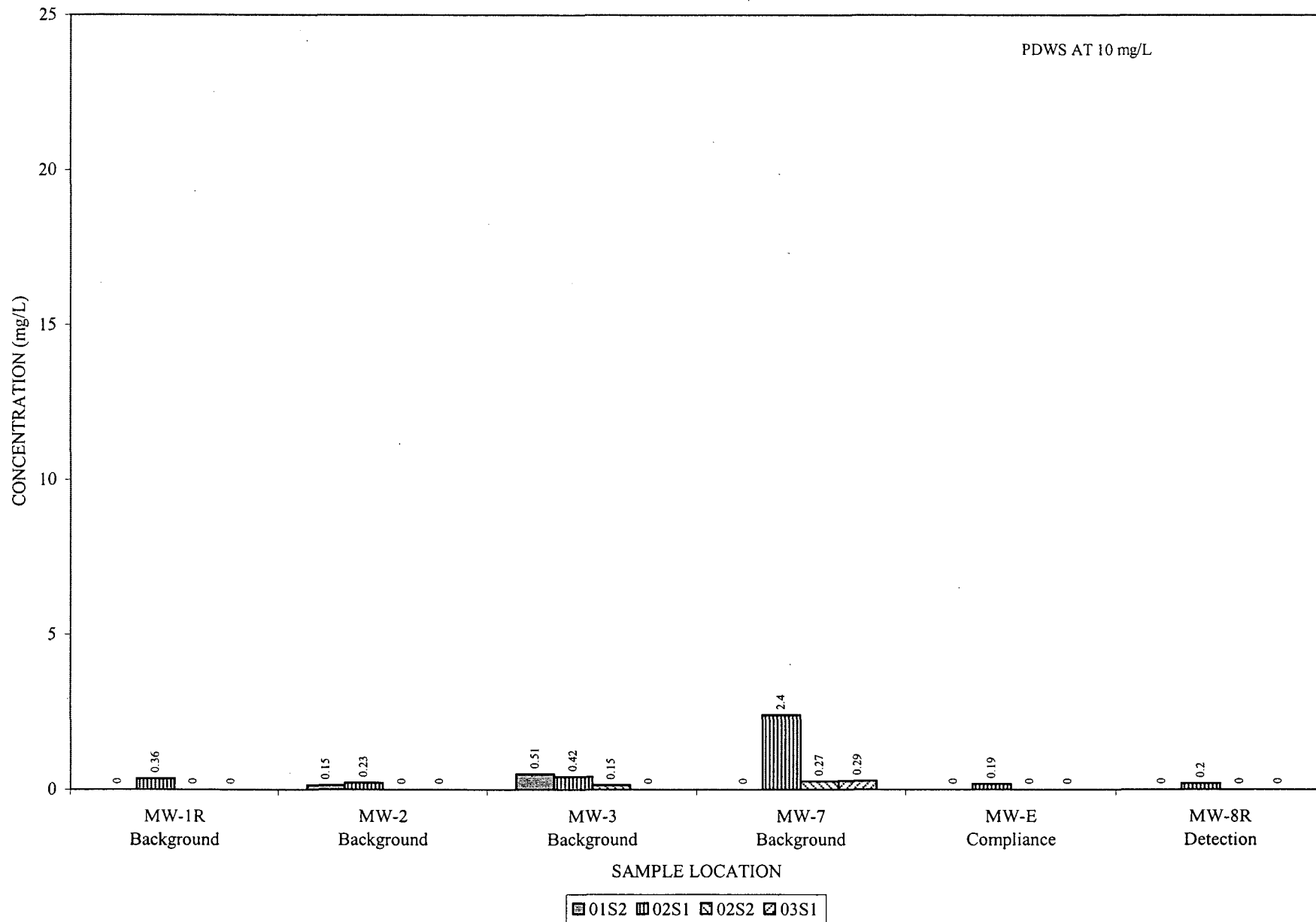
GROUNDWATER CHEMISTRY GRAPH



CHLORIDE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



NITRATE NITROGEN
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



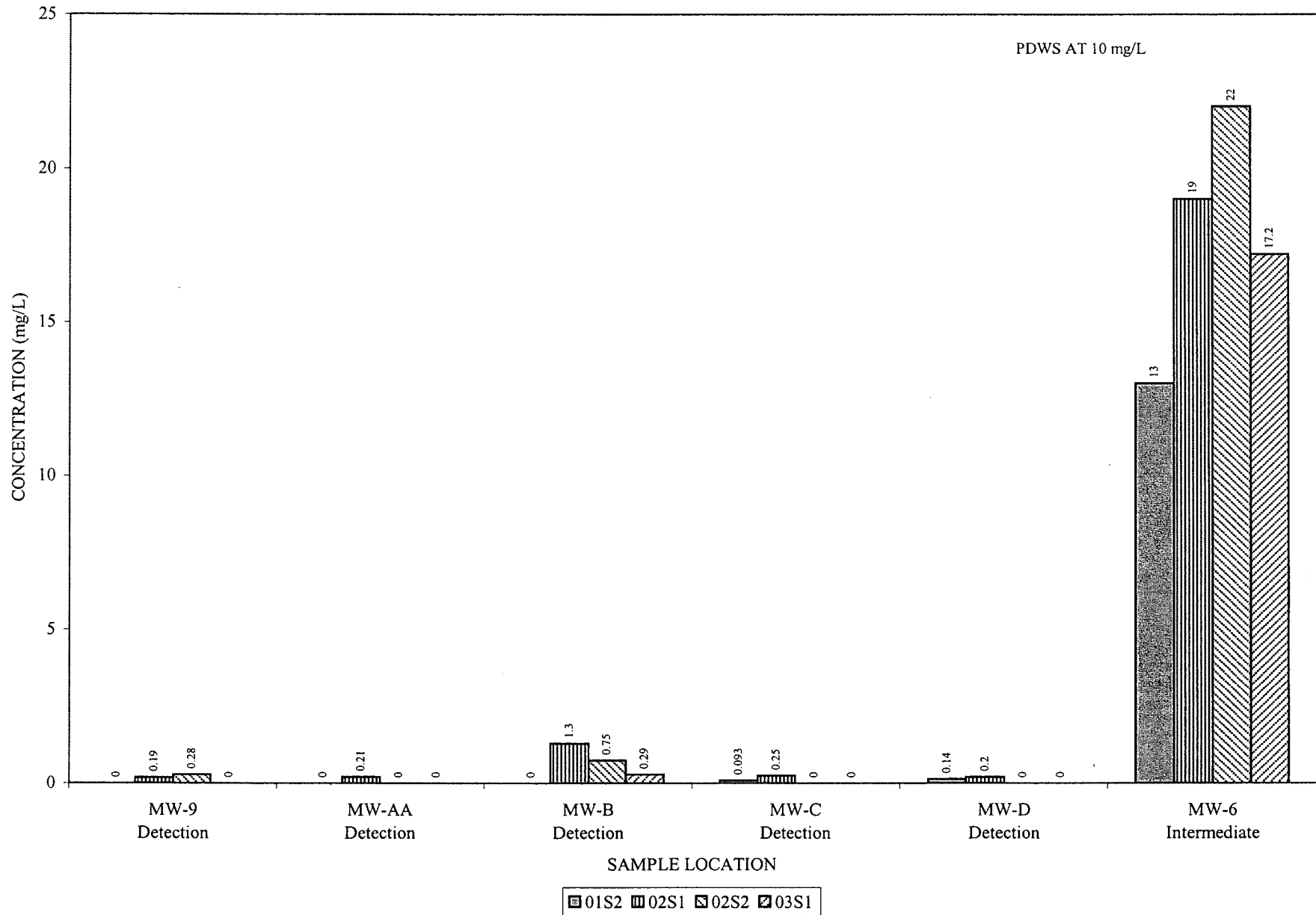
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NITRATE NITROGEN

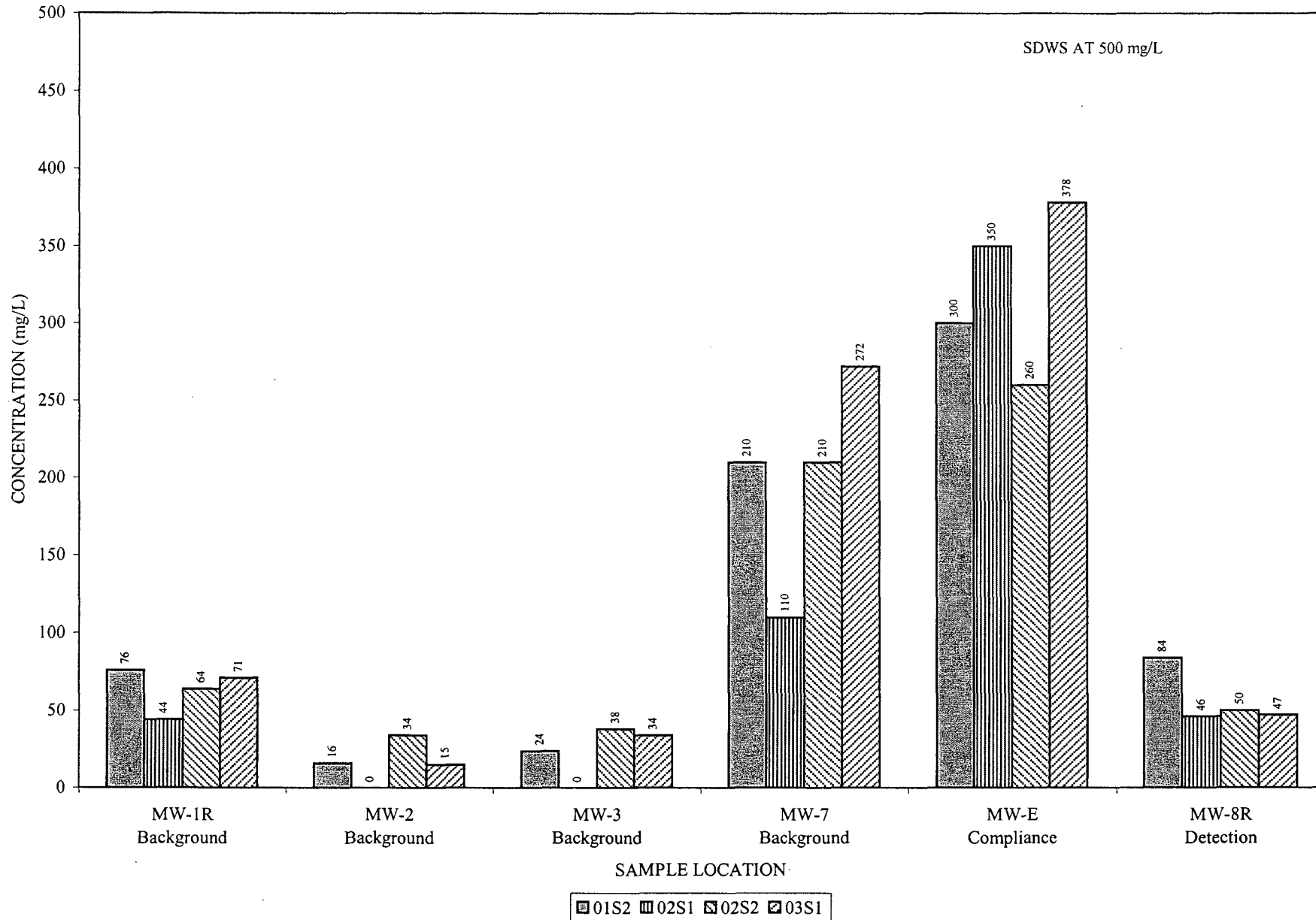
CITRUS COUNTY CENTRAL LANDFILL

GROUNDWATER CHEMISTRY GRAPH



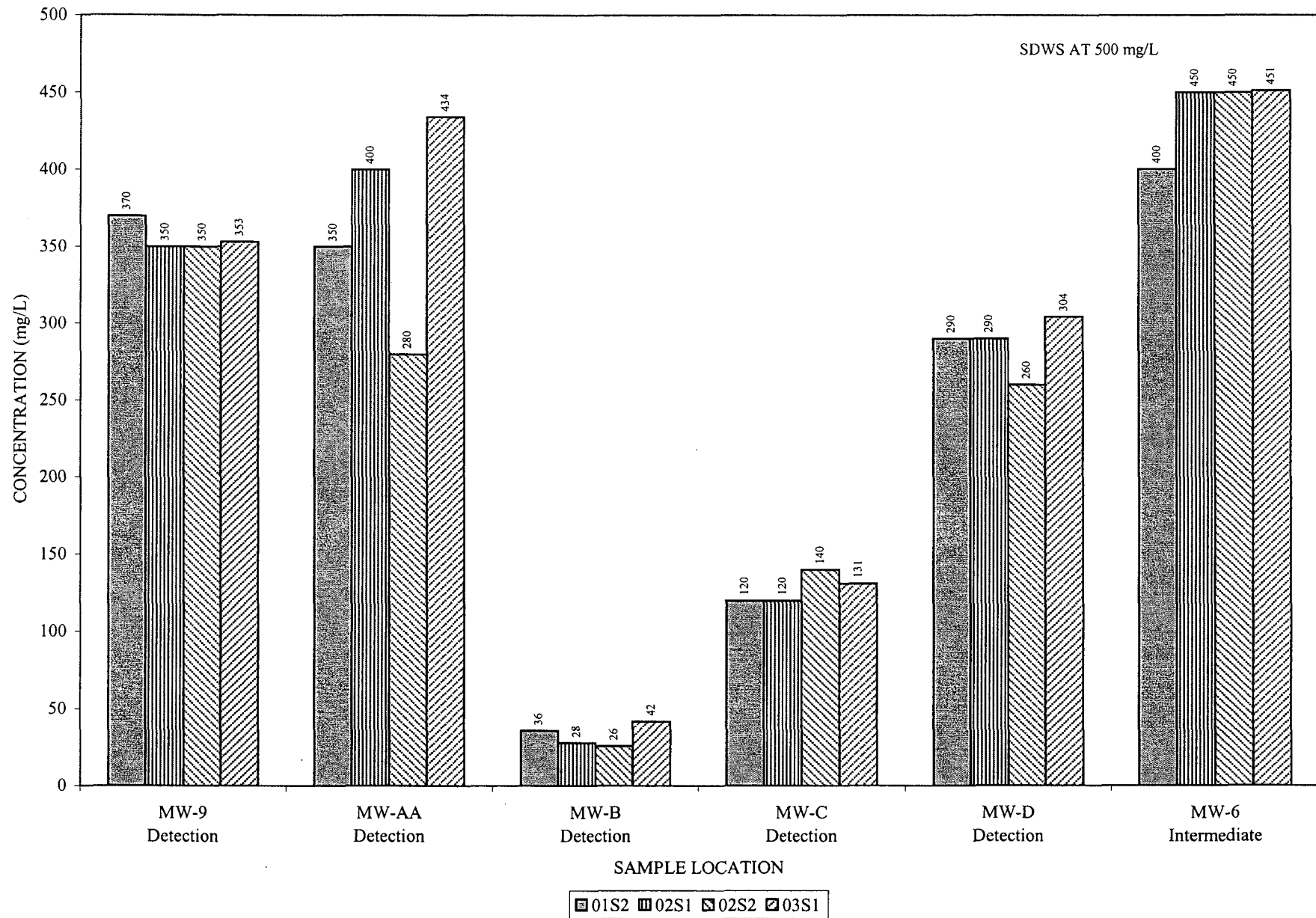
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TOTAL DISSOLVED SOLIDS
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



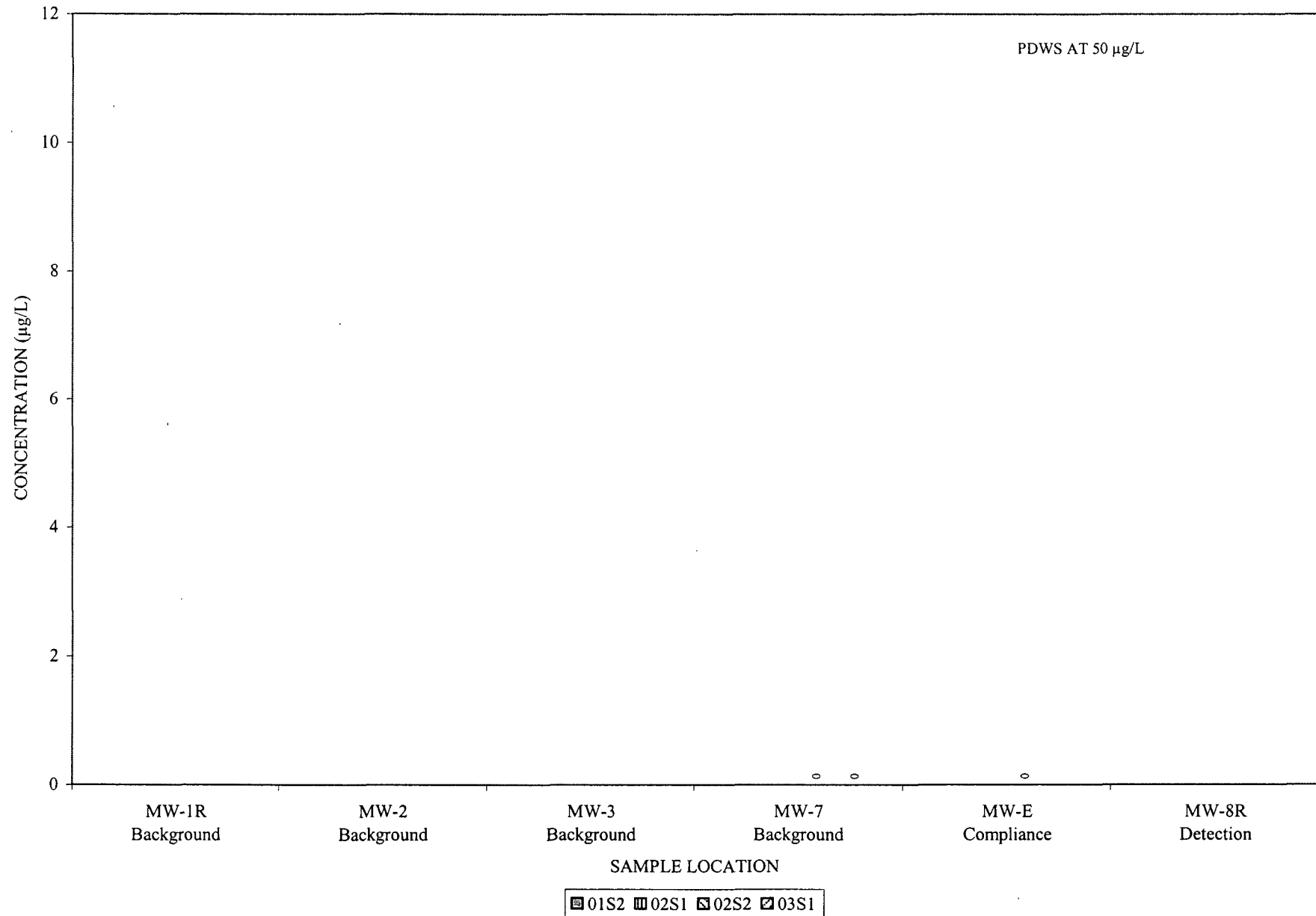
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TOTAL DISSOLVED SOLIDS
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



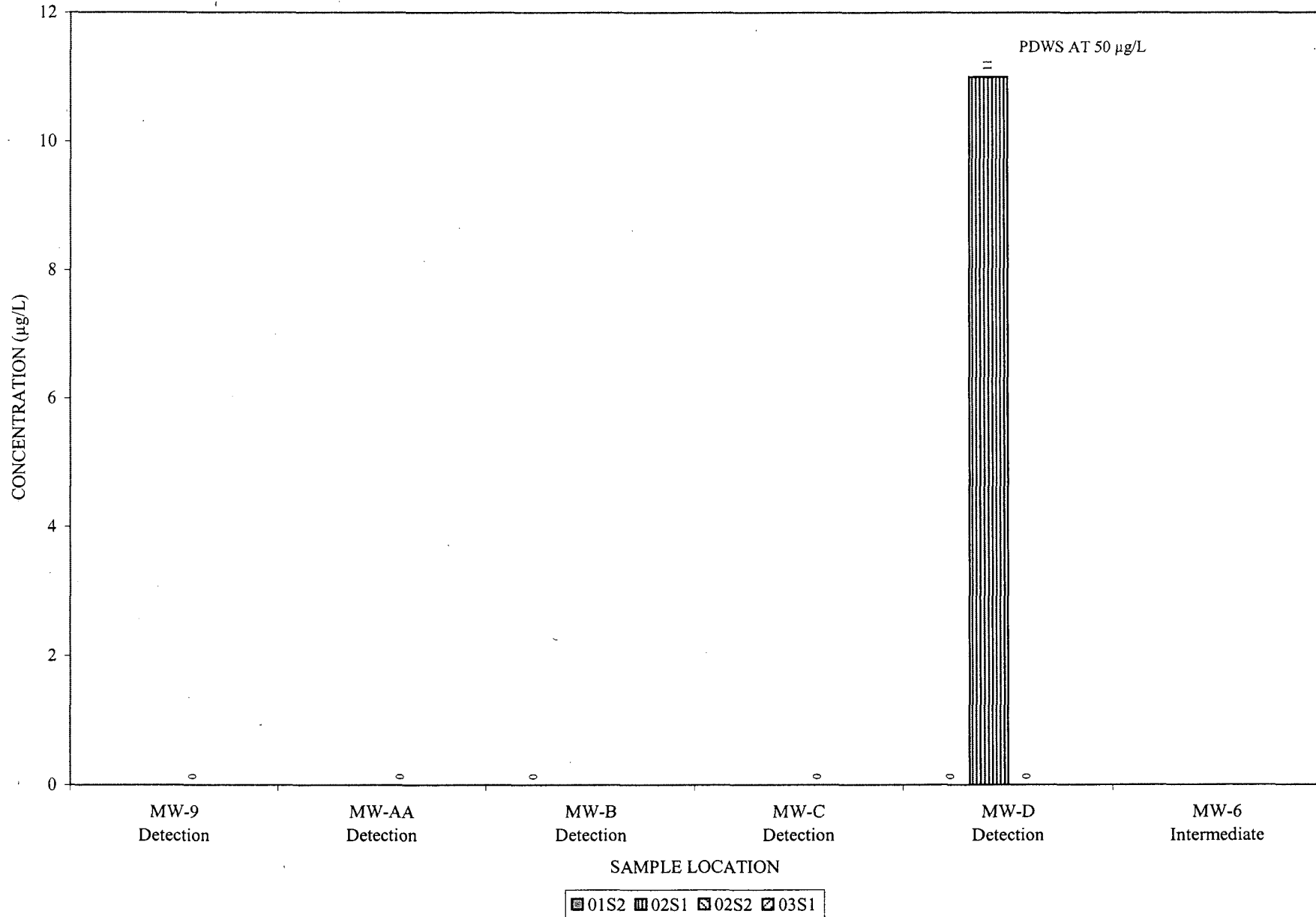
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ARSENIC: FILTERED
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



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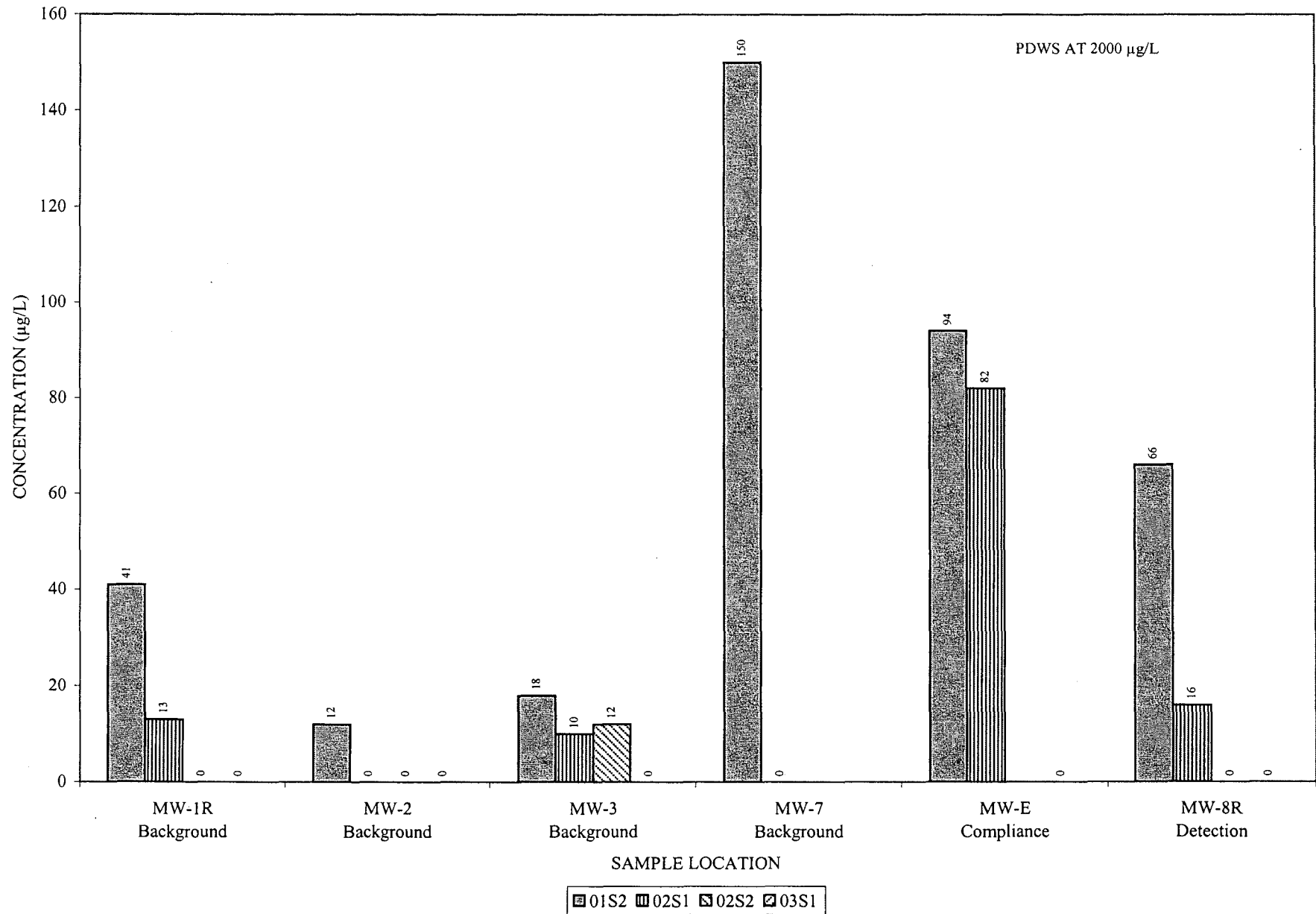
ARSENIC: FILTERED
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

BARIUM

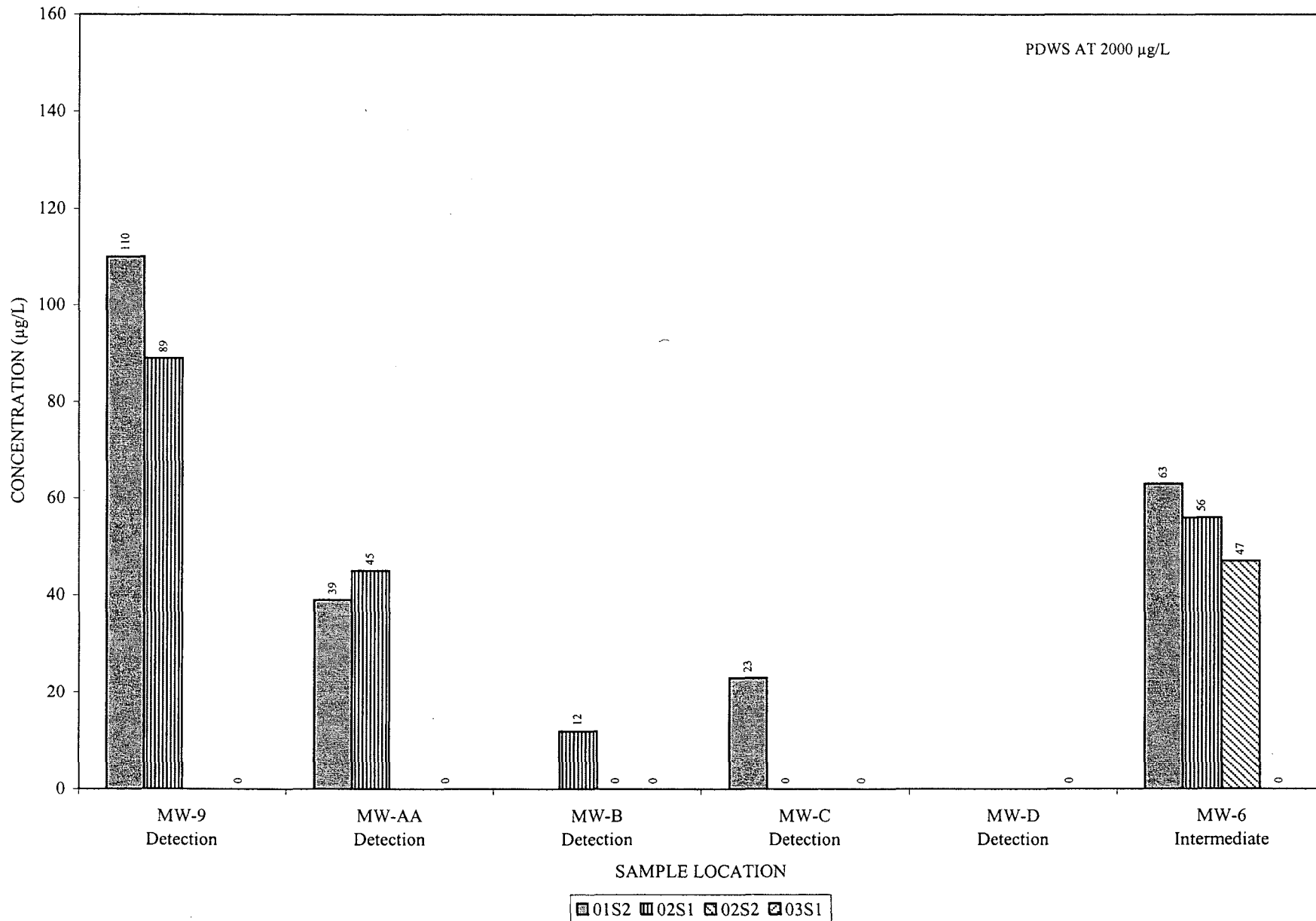
CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH



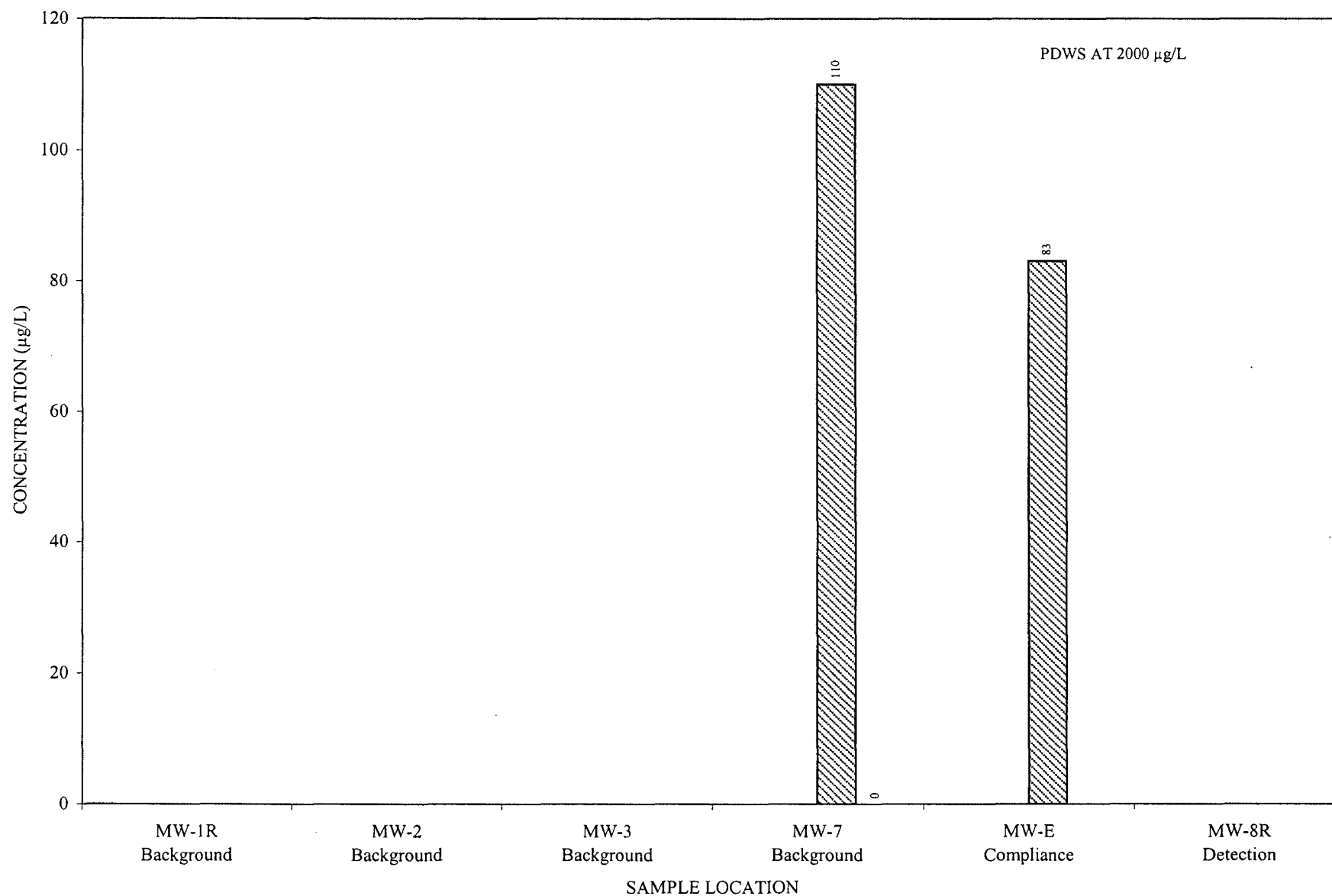
BARIUM

CITRUS COUNTY CENTRAL LANDFILL

GROUNDWATER CHEMISTRY GRAPH



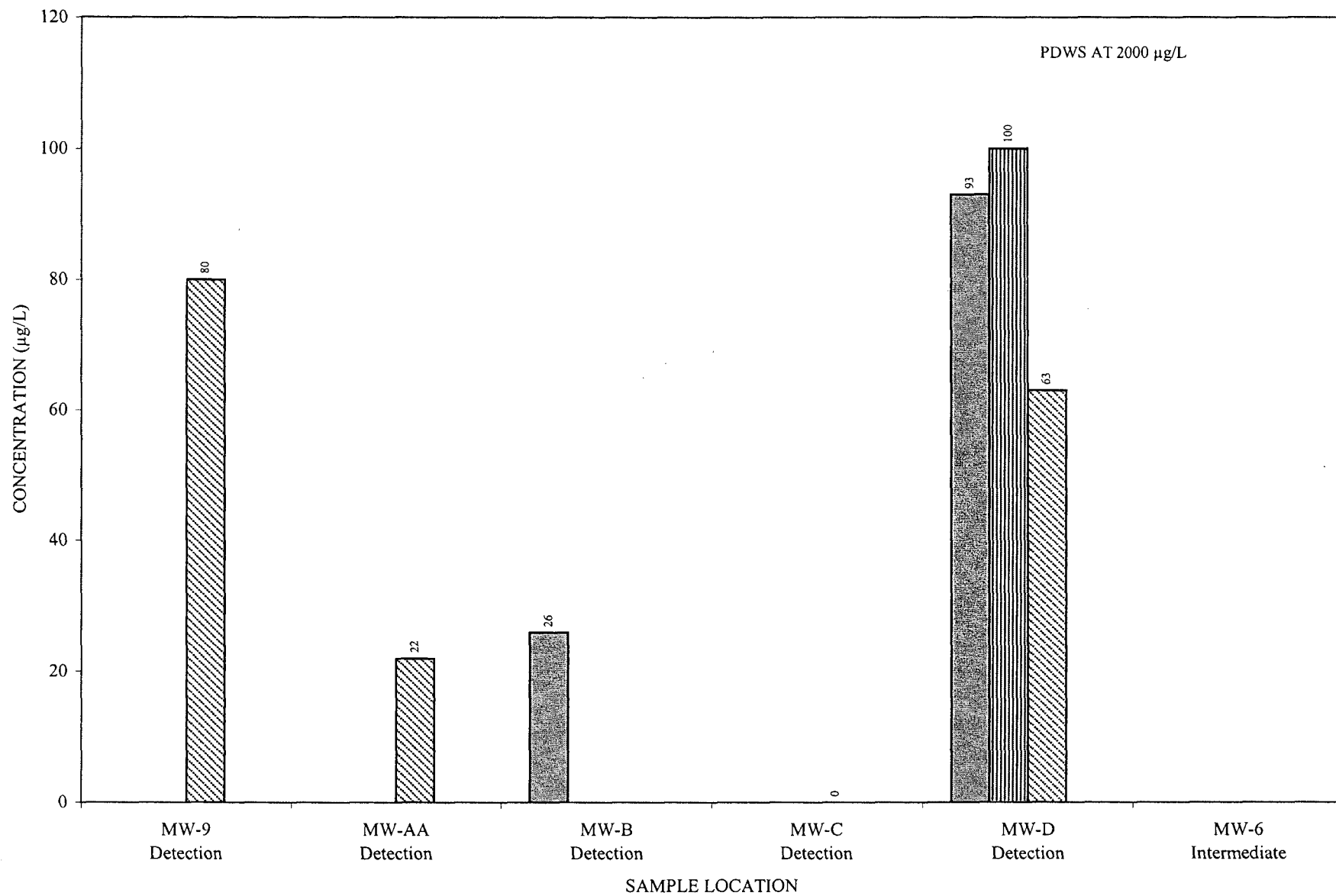
BARIUM: FILTERED
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

01S2 02S1 02S2 03S1

BARIUM: FILTERED
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH

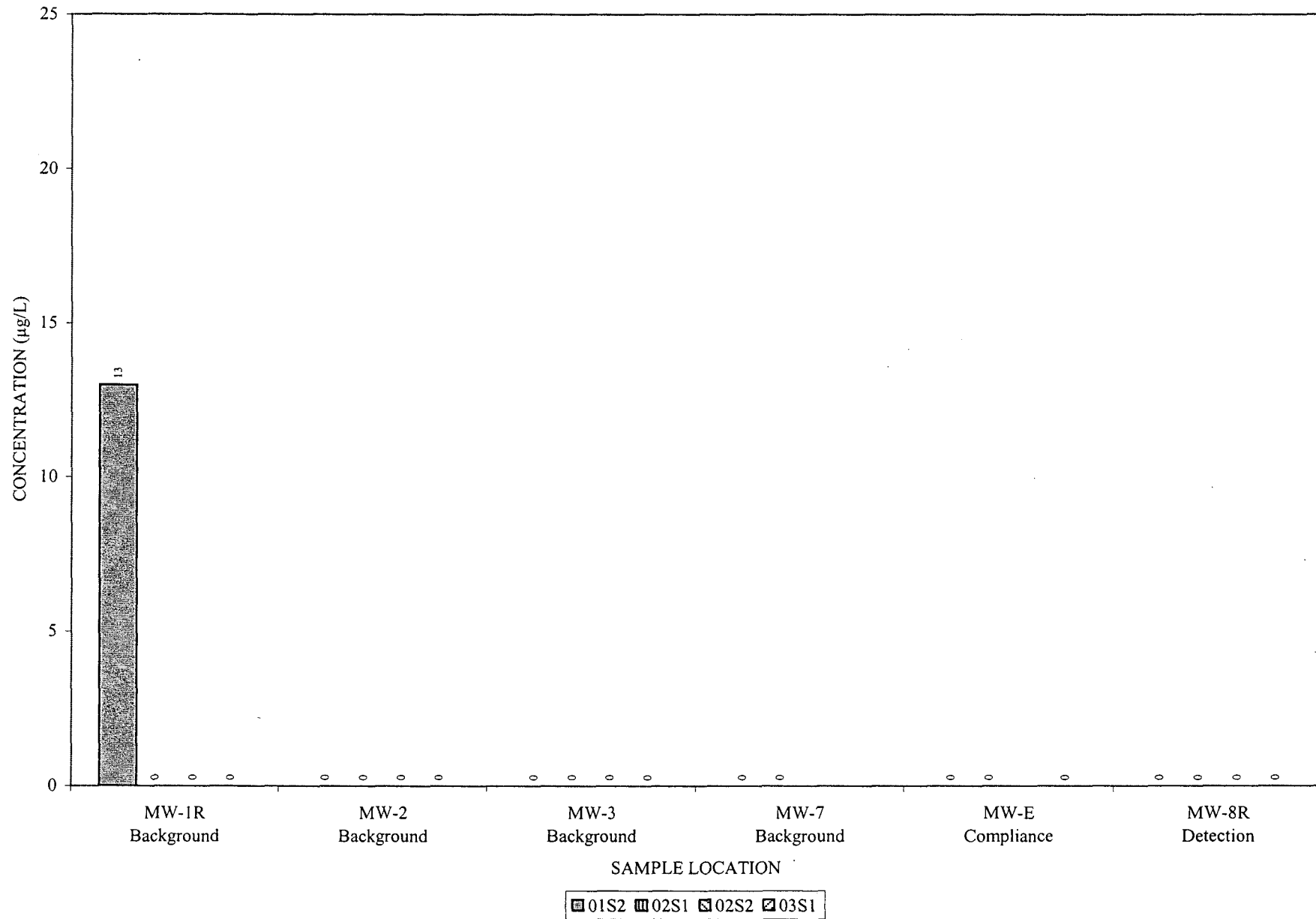


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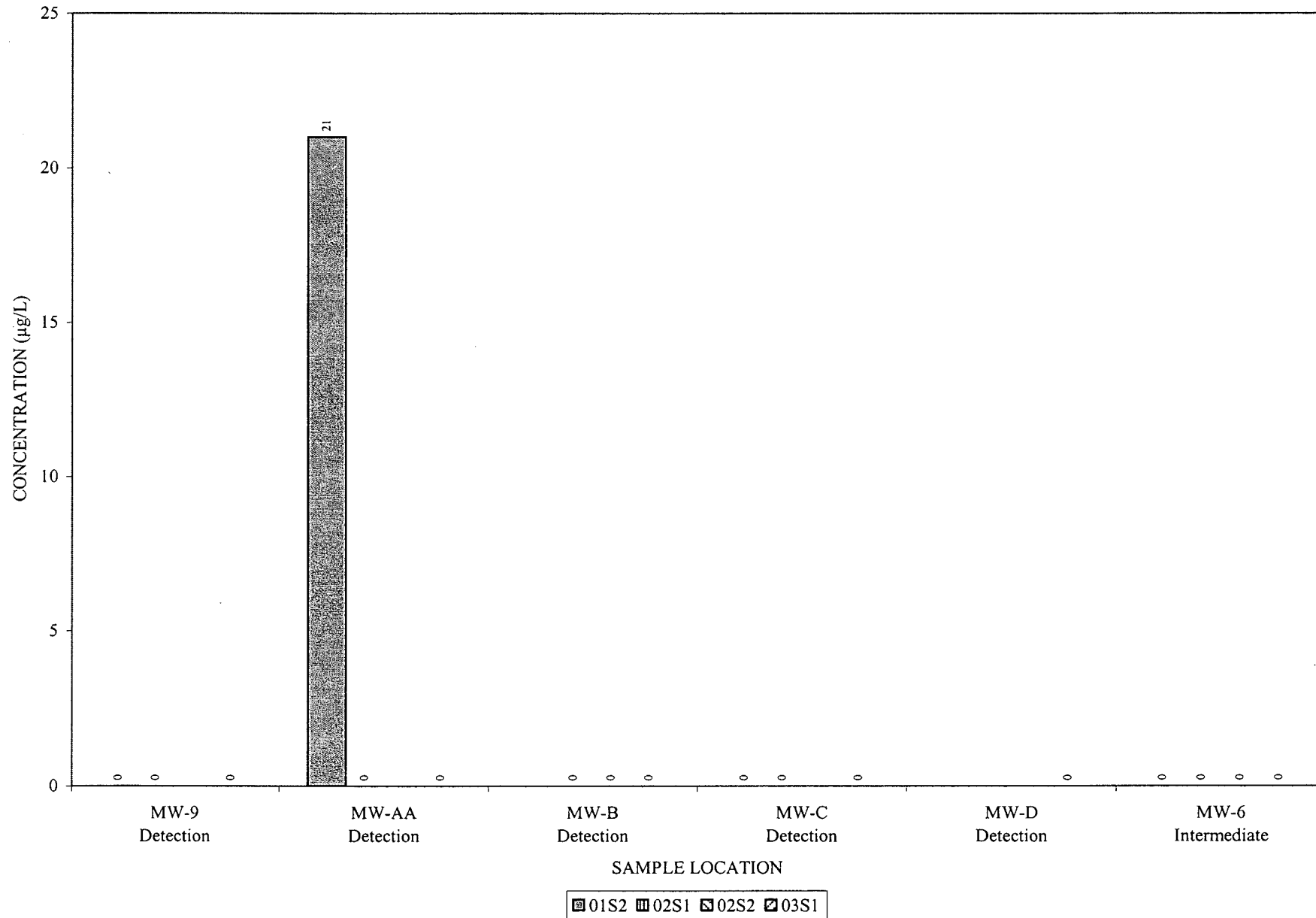
COBALT

CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH



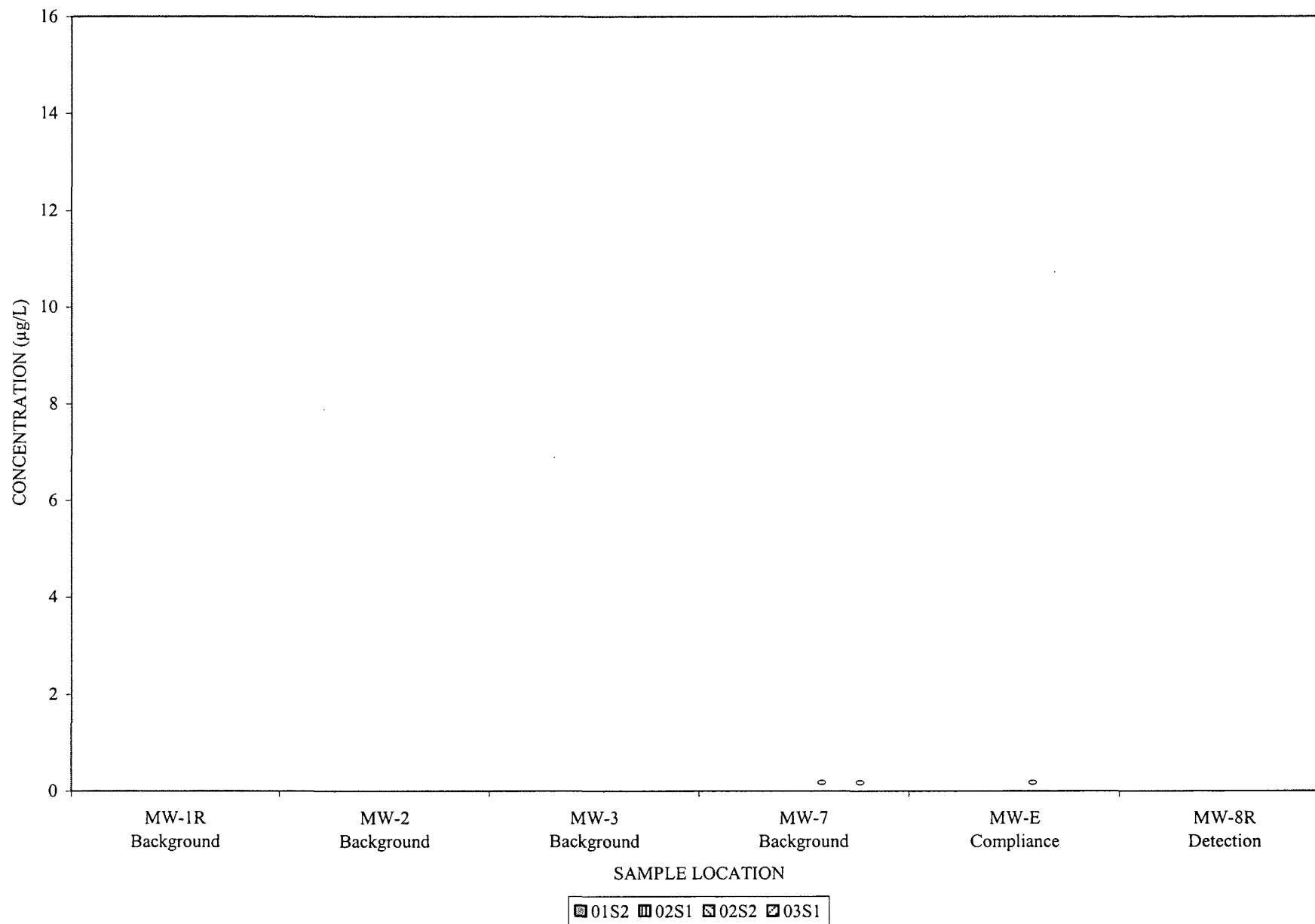
0 = BELOW LABORATORY DETECTION LIMIT

COBALT
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

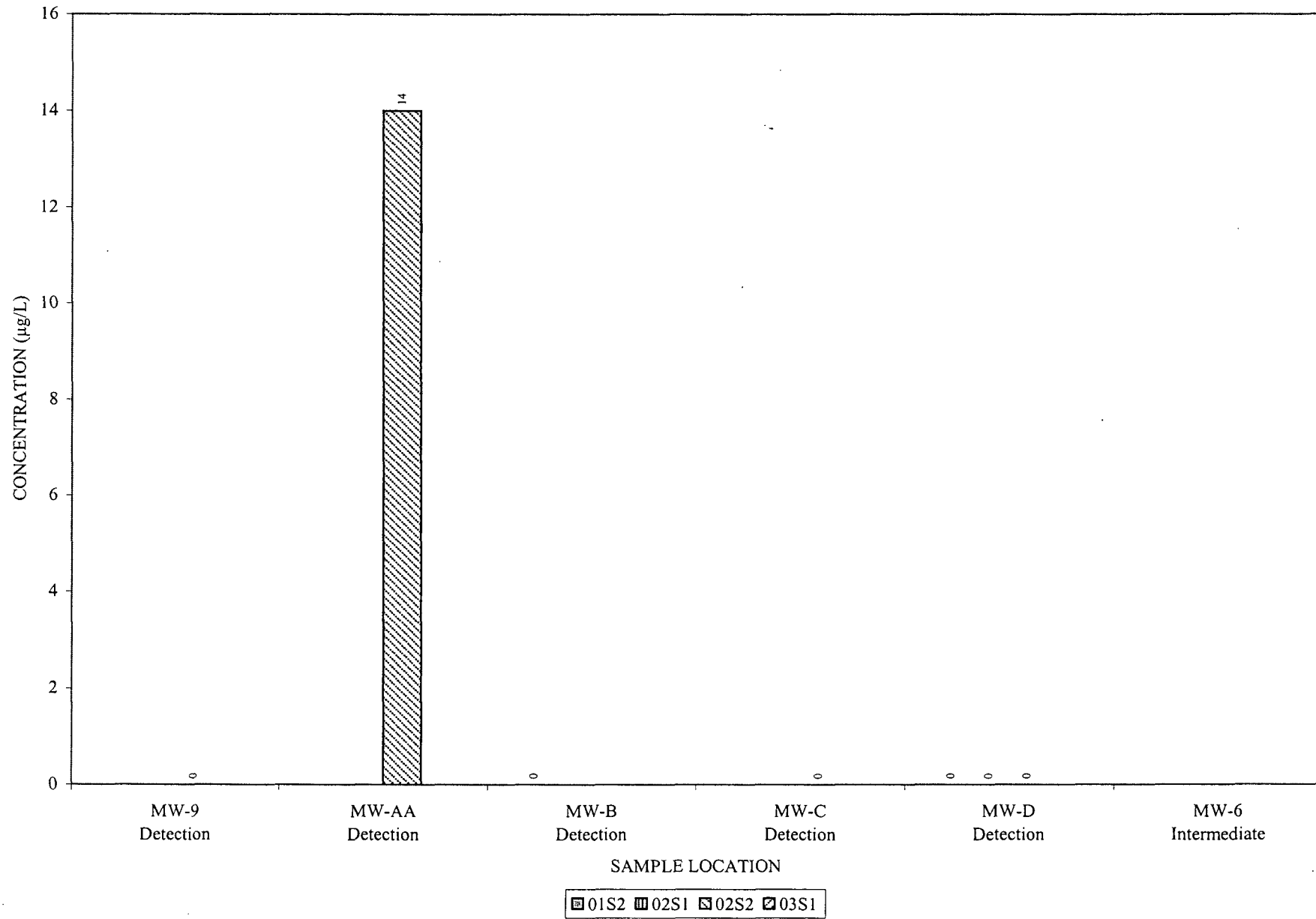
COBALT: FILTERED
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

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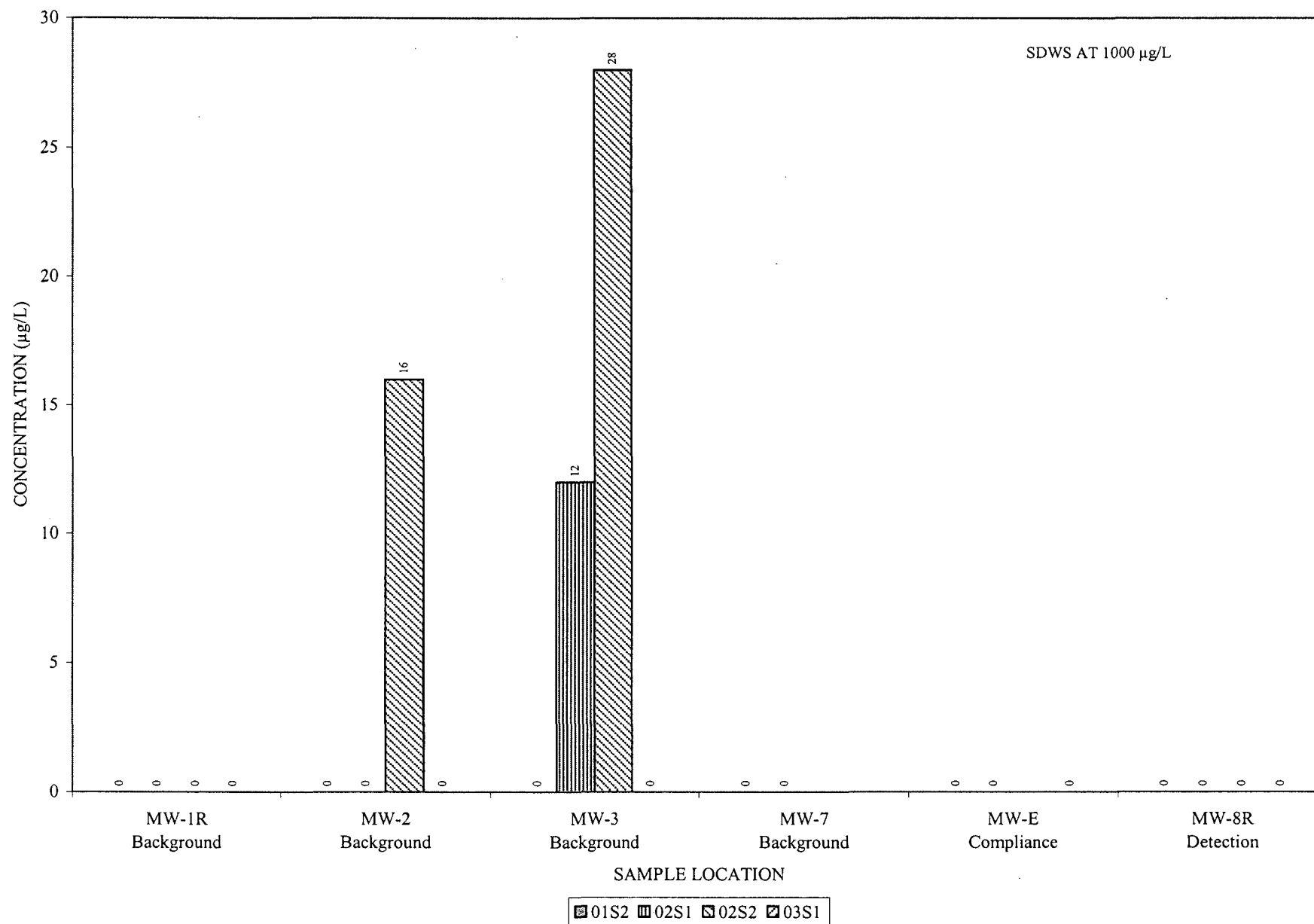
COBALT: FILTERED
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



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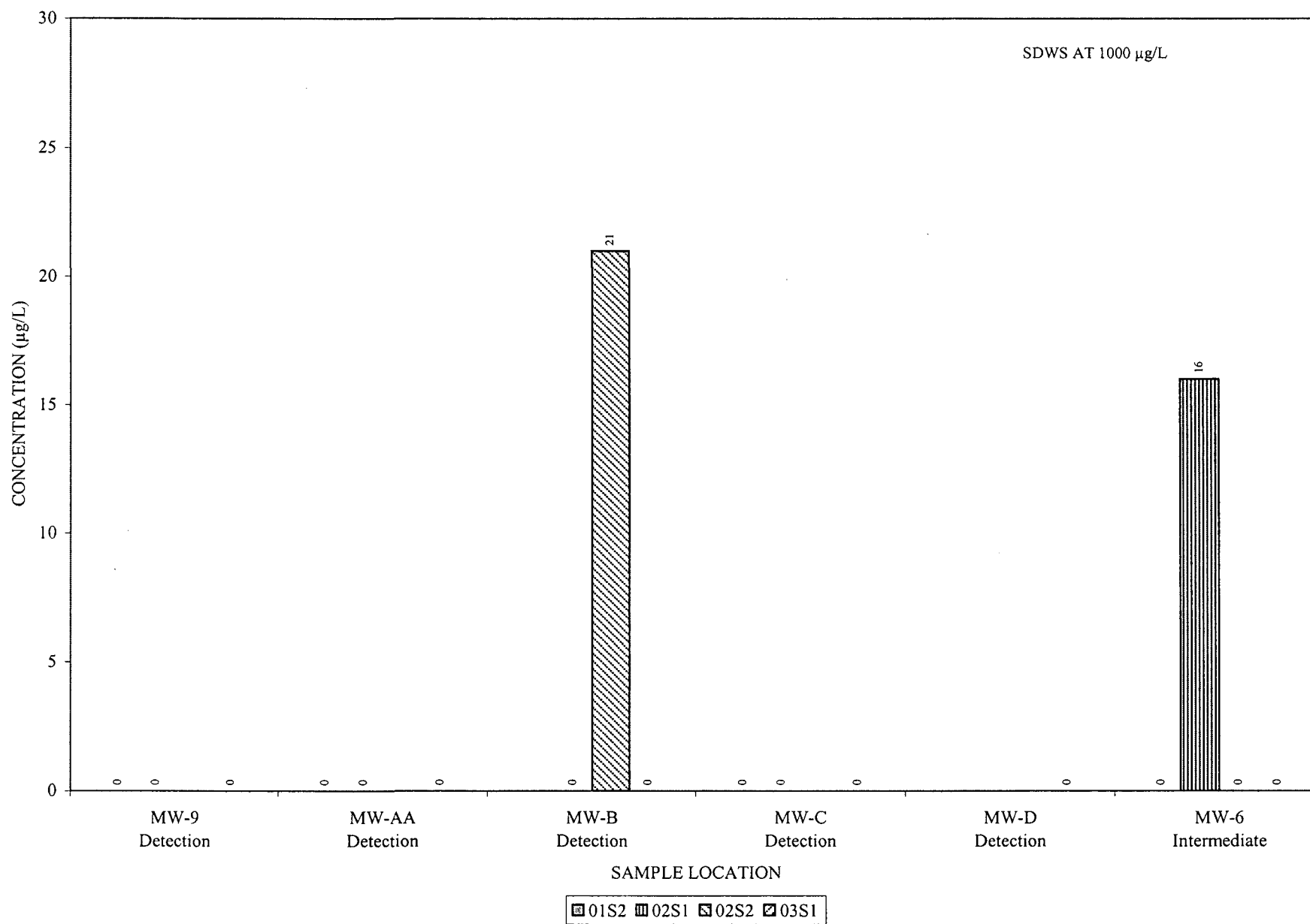
COPPER

CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH



COPPER

CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH



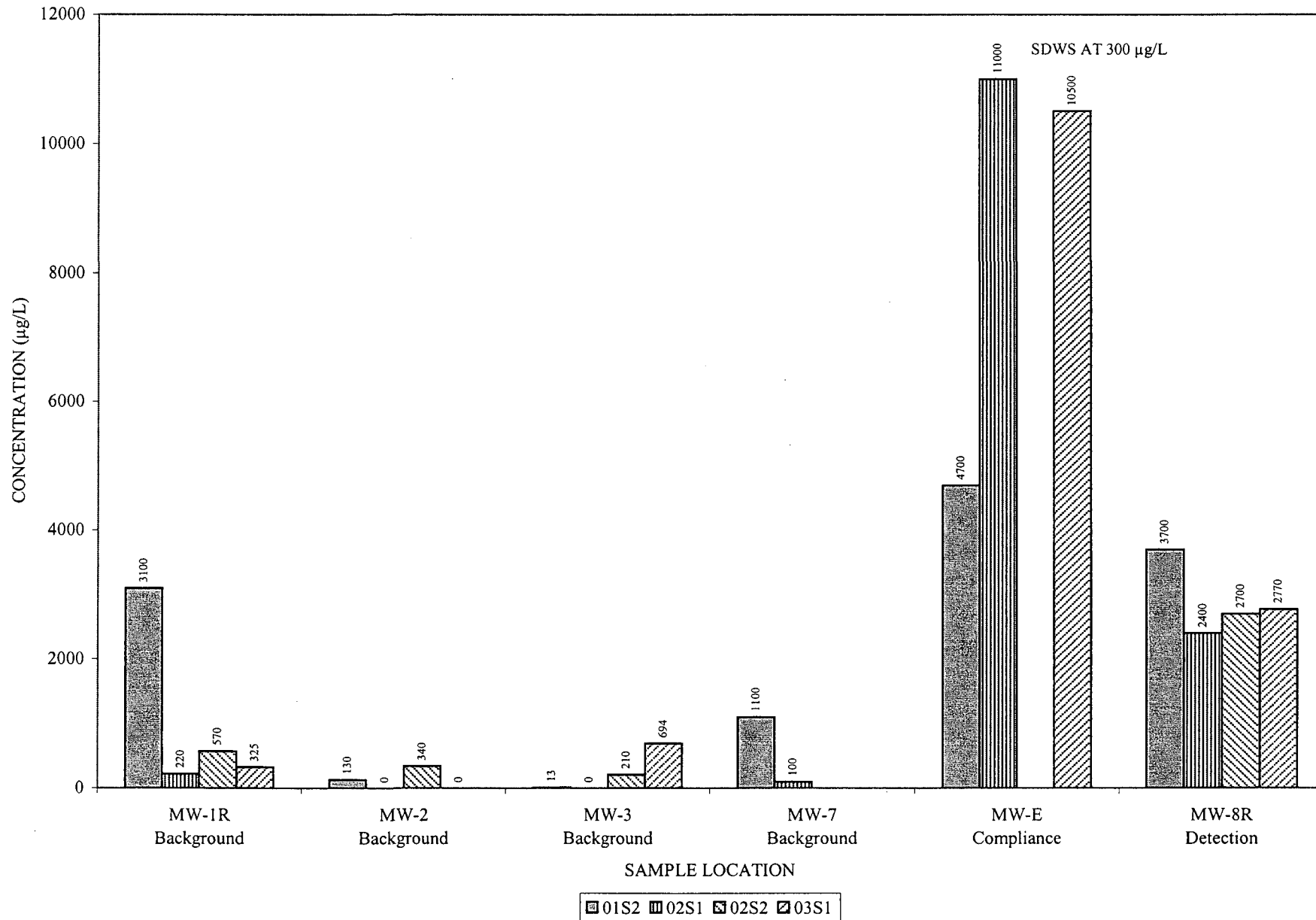
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IRON

CITRUS COUNTY CENTRAL LANDFILL

GROUNDWATER CHEMISTRY GRAPH



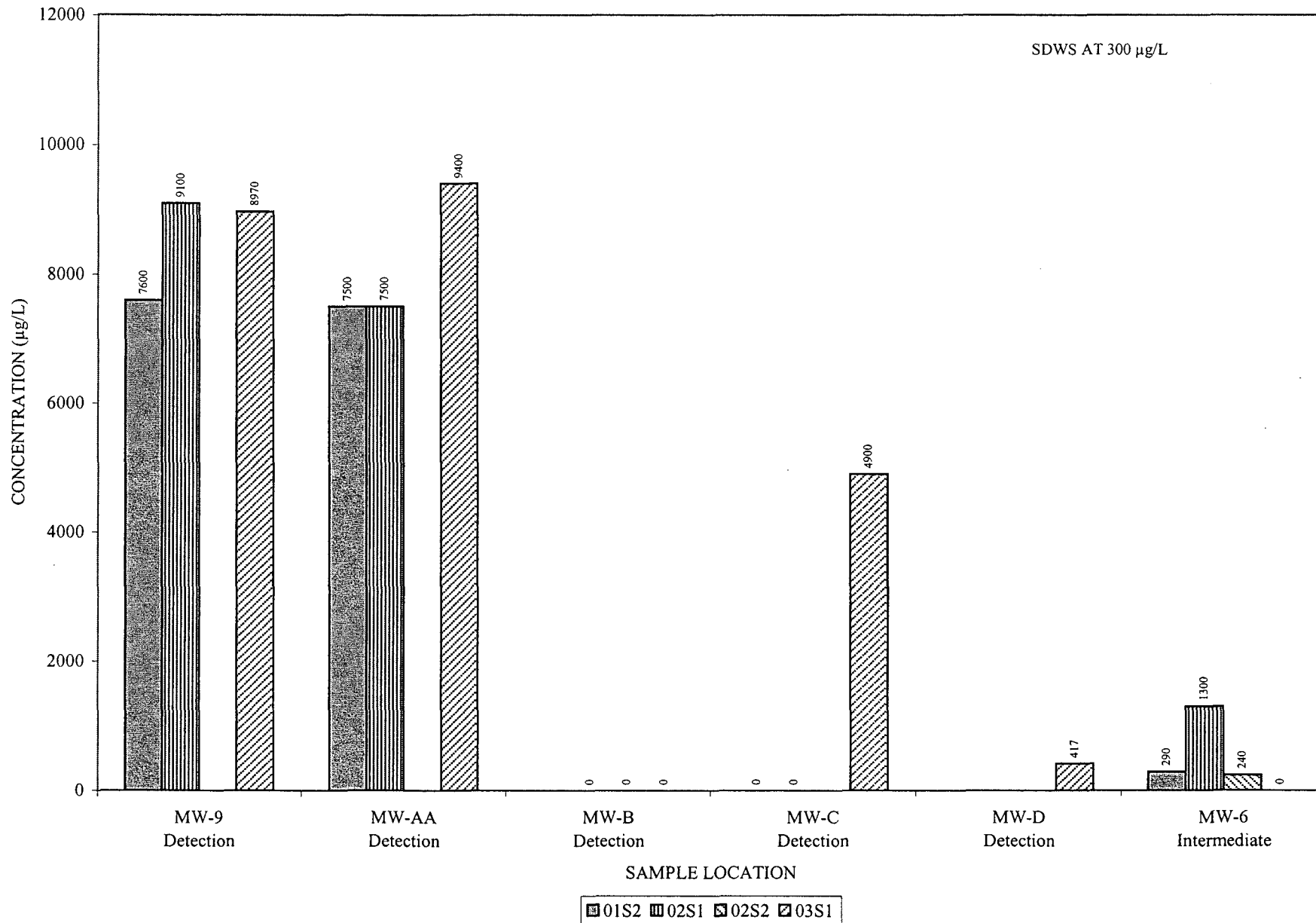
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IRON

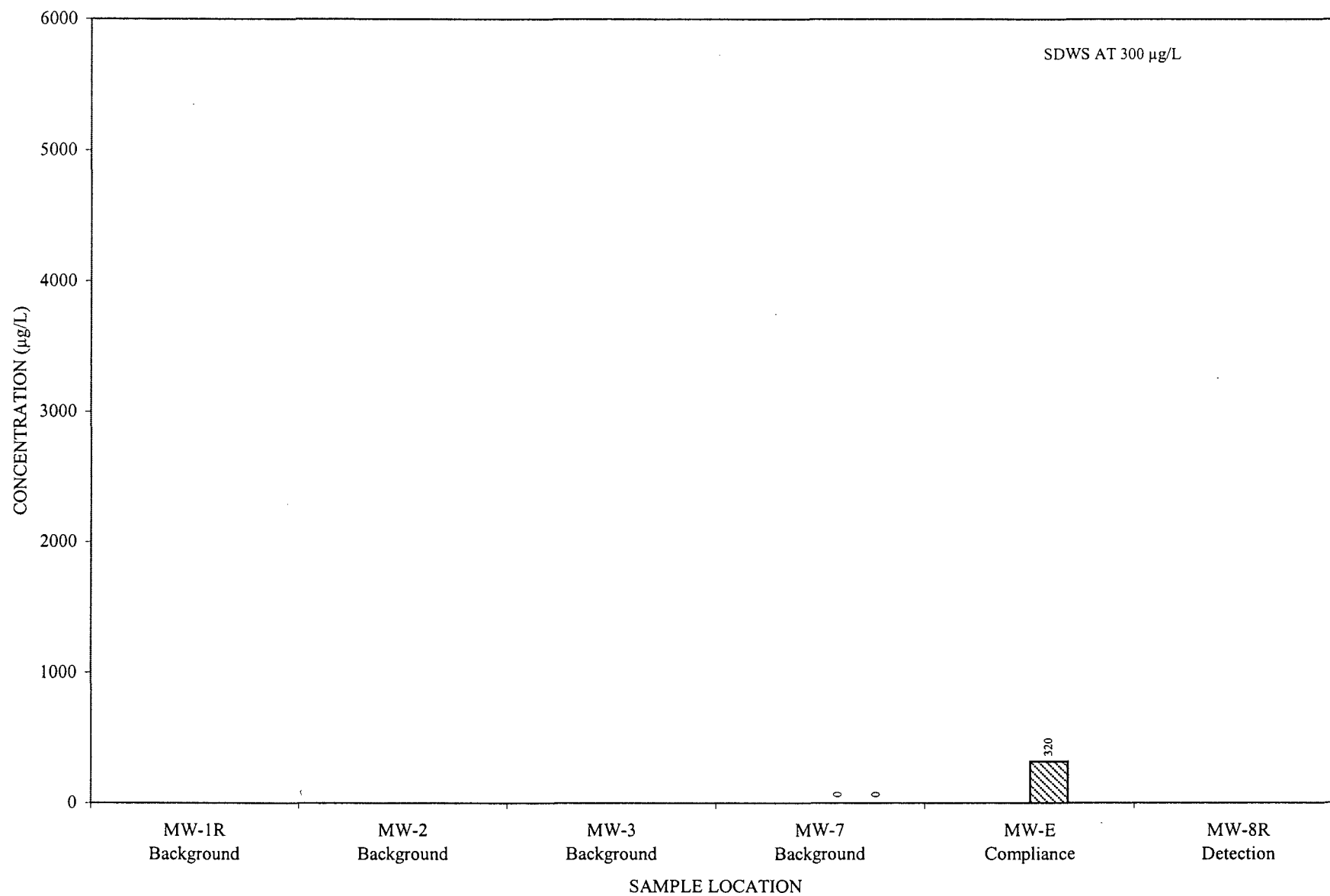
CITRUS COUNTY CENTRAL LANDFILL

GROUNDWATER CHEMISTRY GRAPH



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IRON: FILTERED
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH

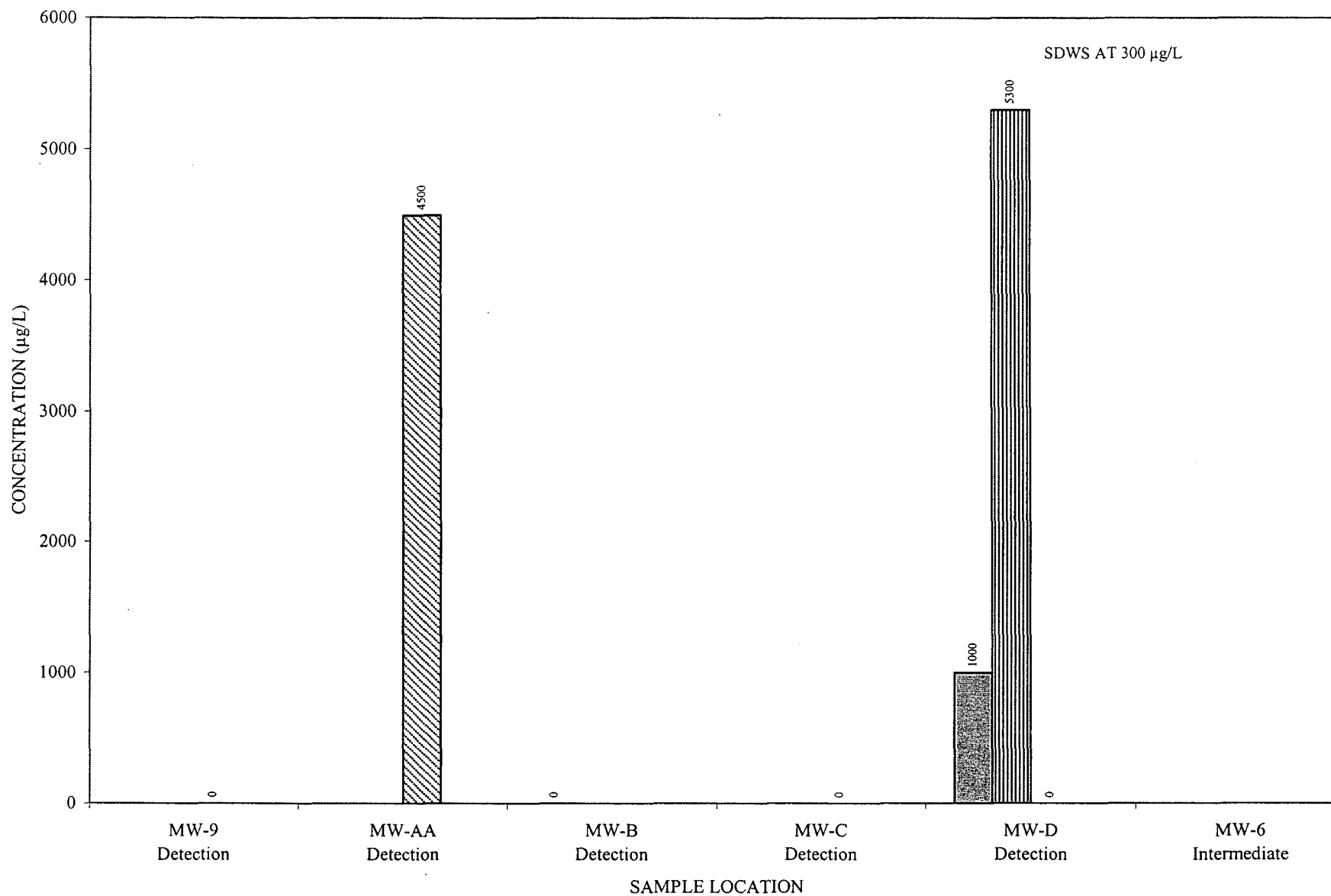


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IRON: FILTERED CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH

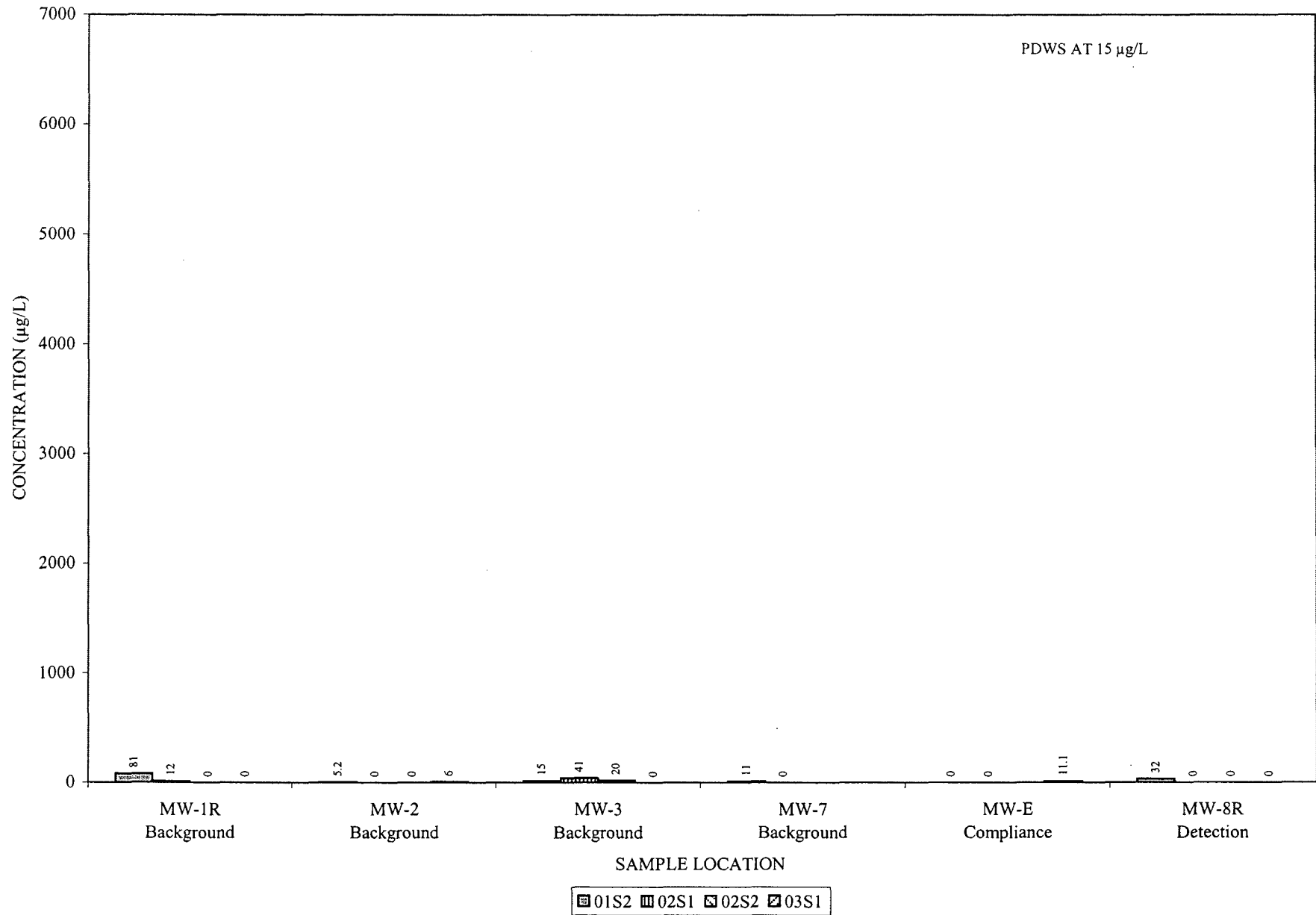


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01S2 02S1 02S2 03S1

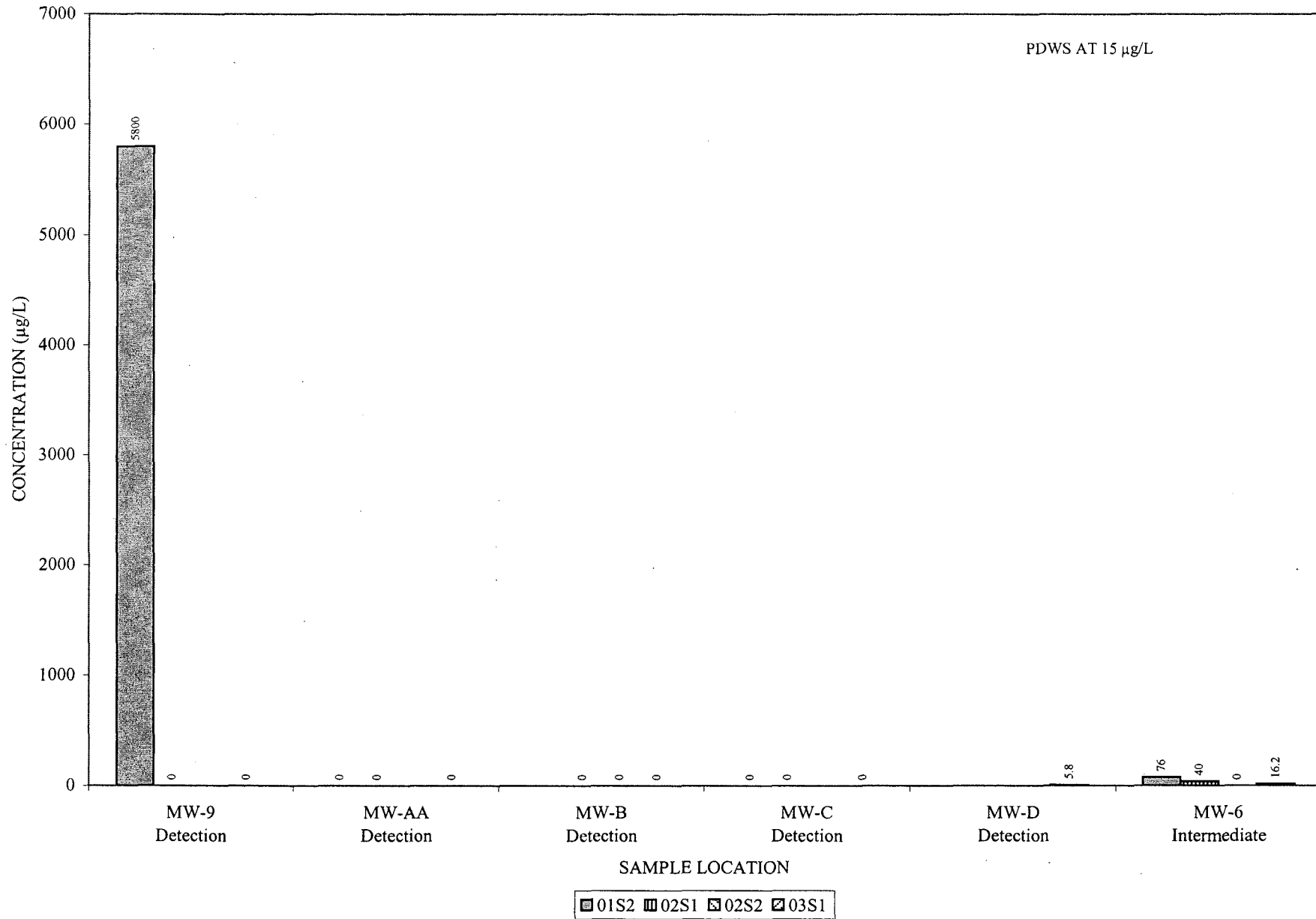
LEAD

CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH



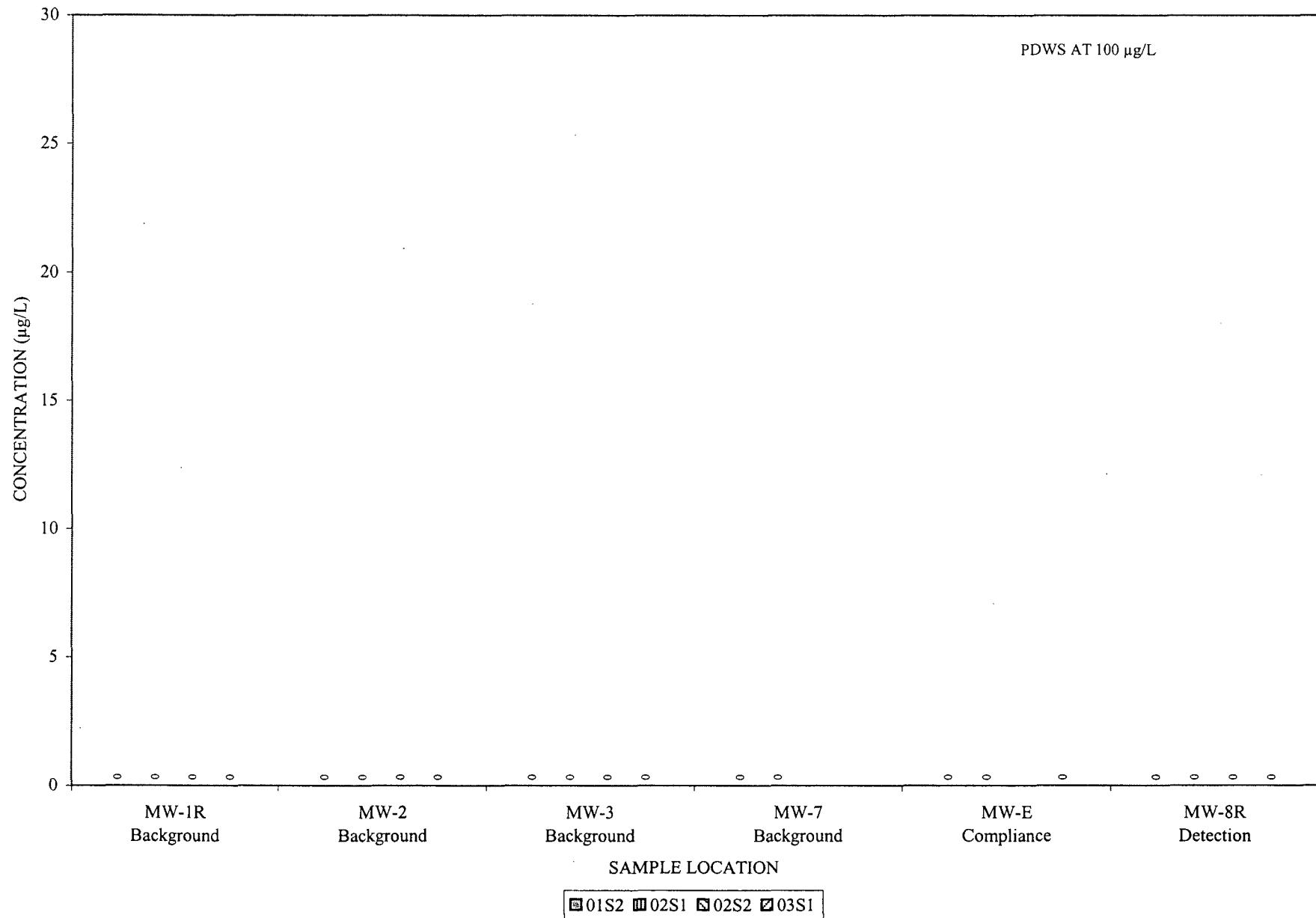
LEAD

CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH



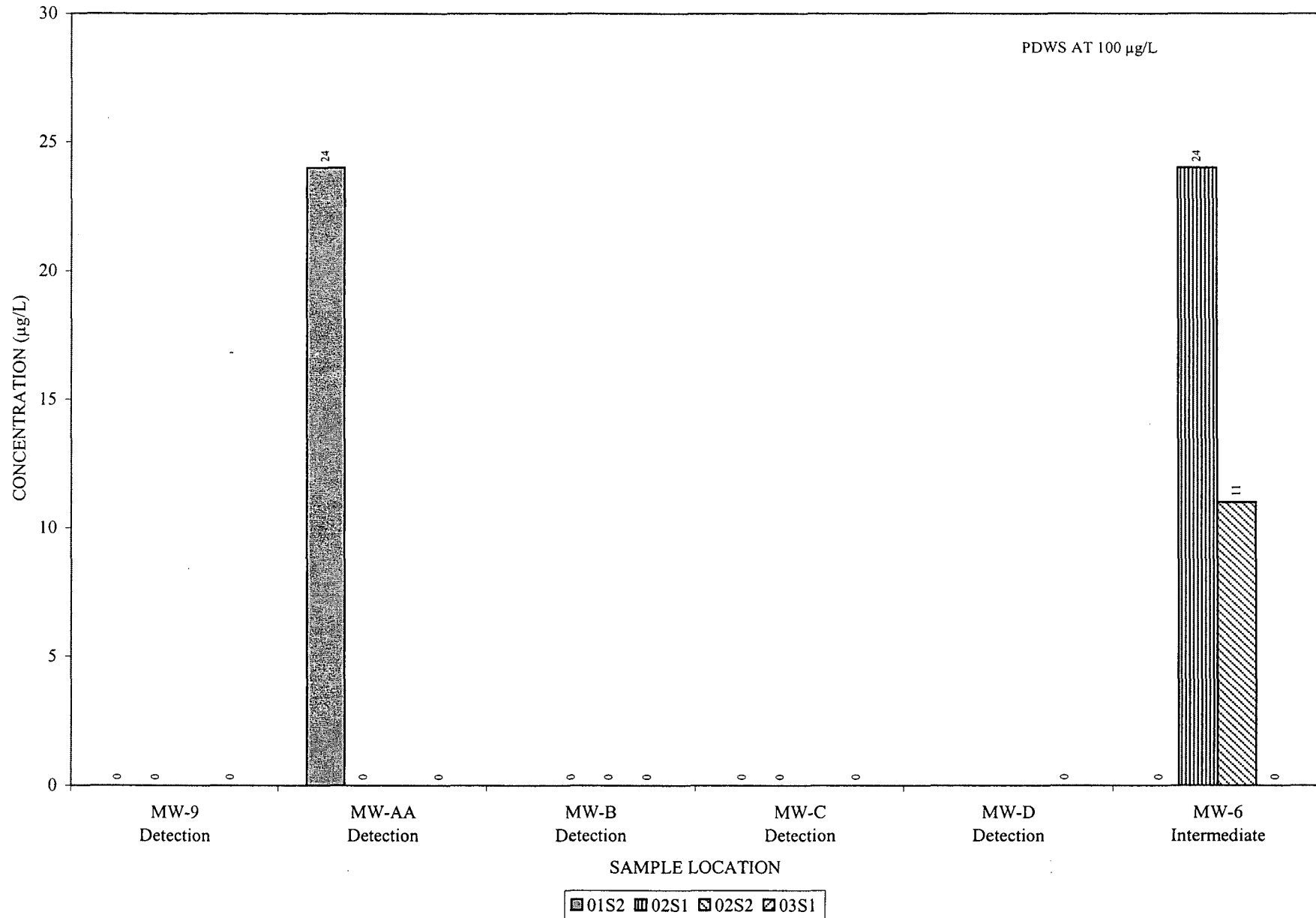
0 = BELOW LABORATORY DETECTION LIMIT

NICKEL
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



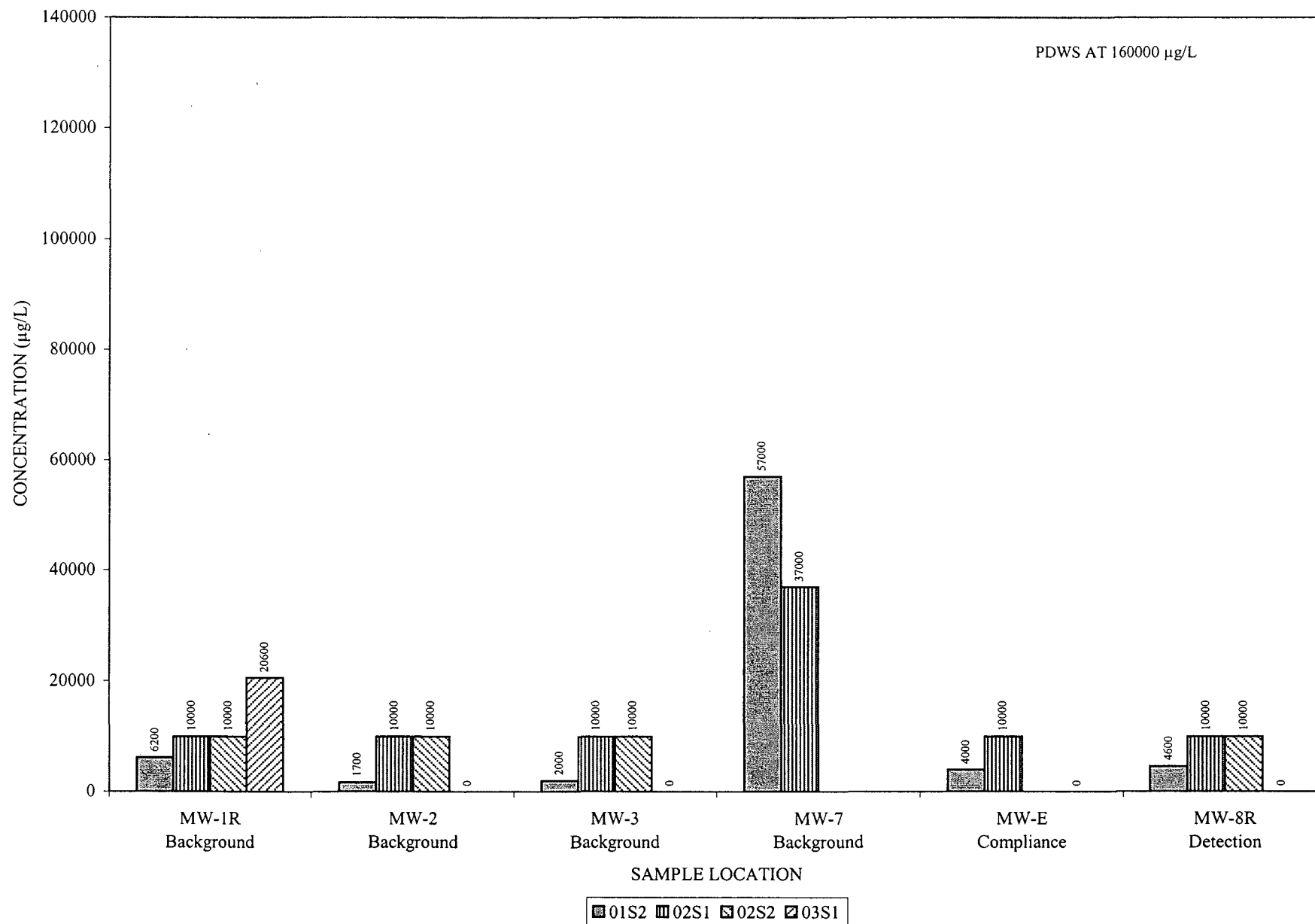
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NICKEL
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



SODIUM

CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH

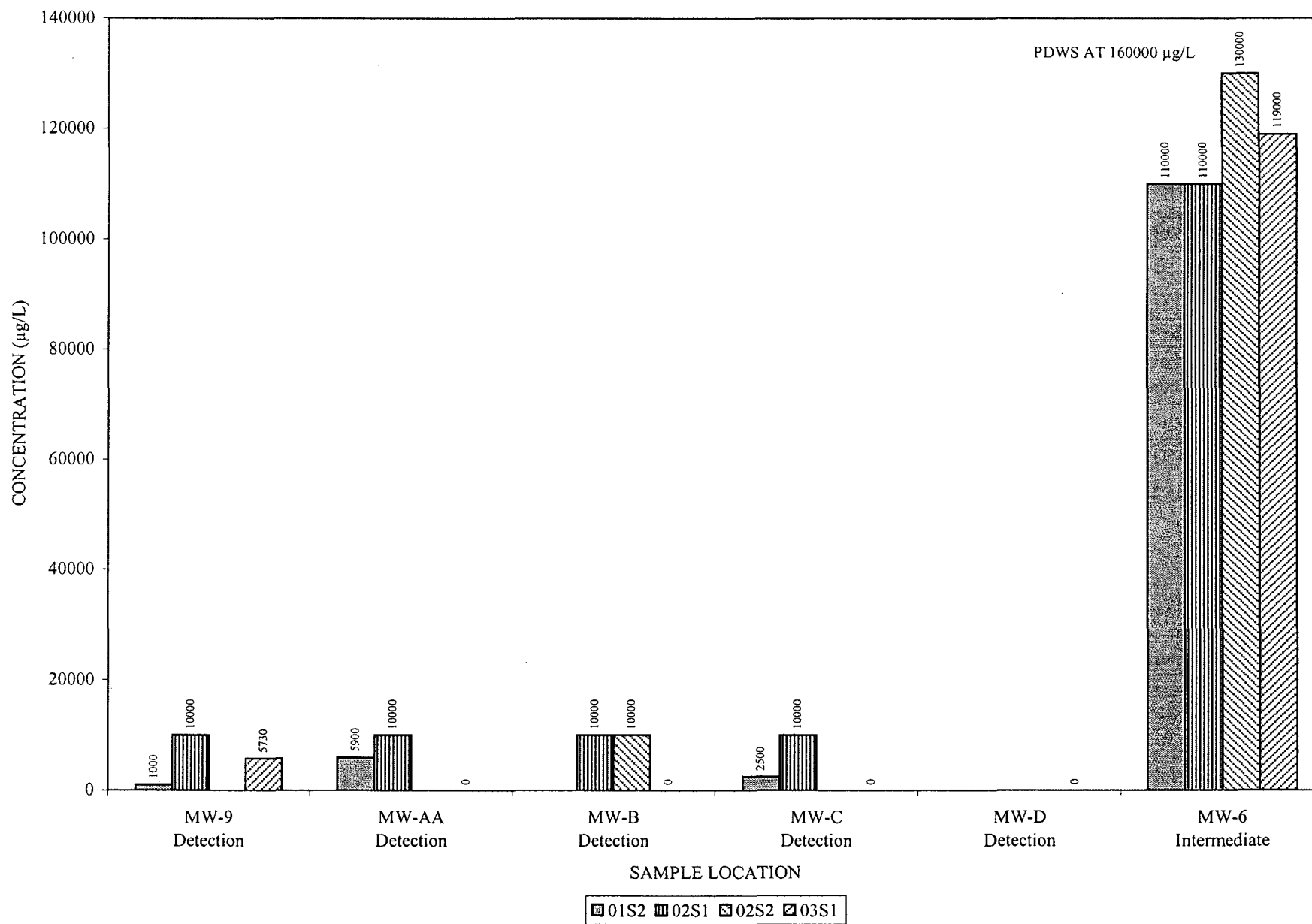


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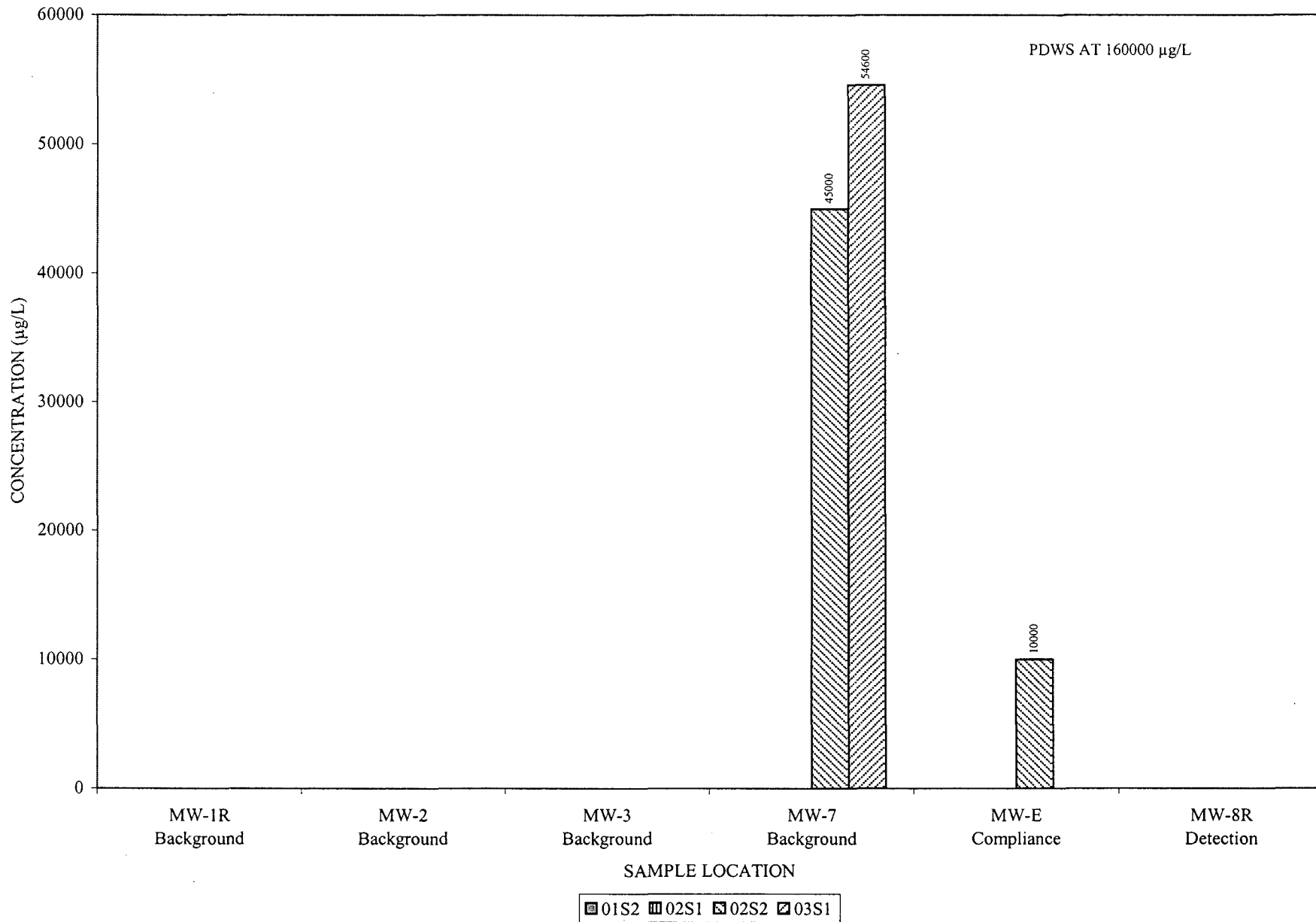
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SODIUM

CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH

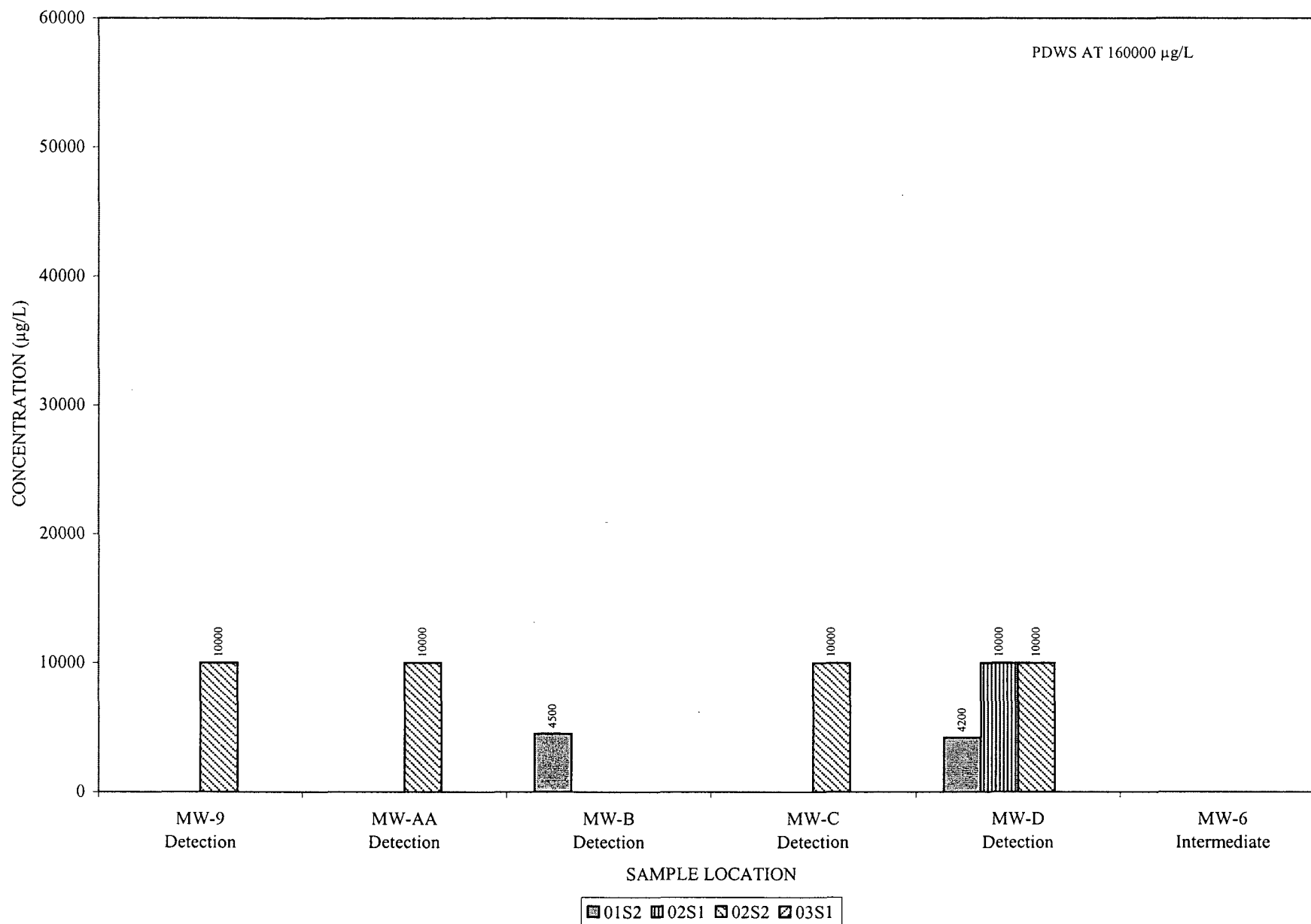


SODIUM: FILTERED
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

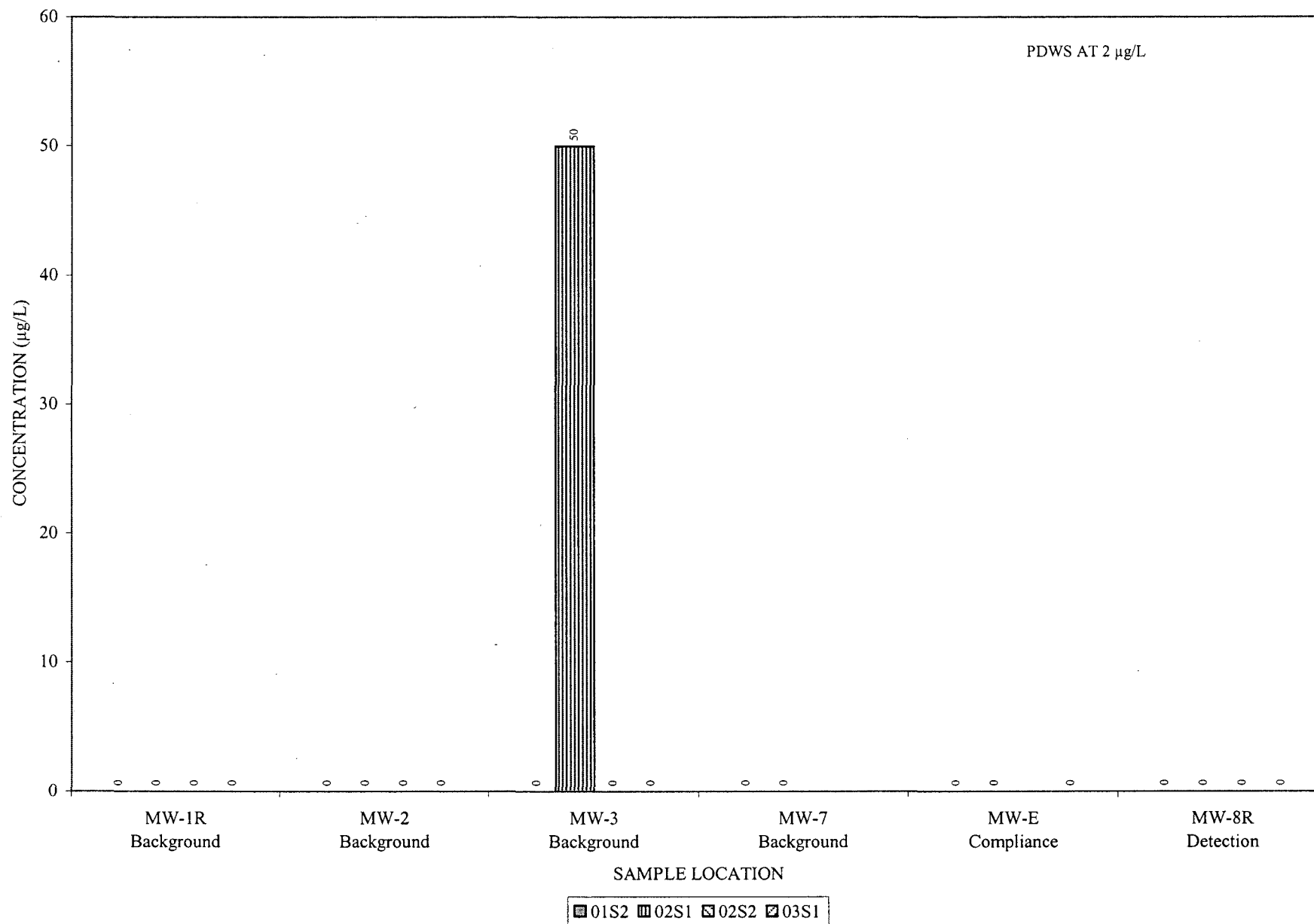
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CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



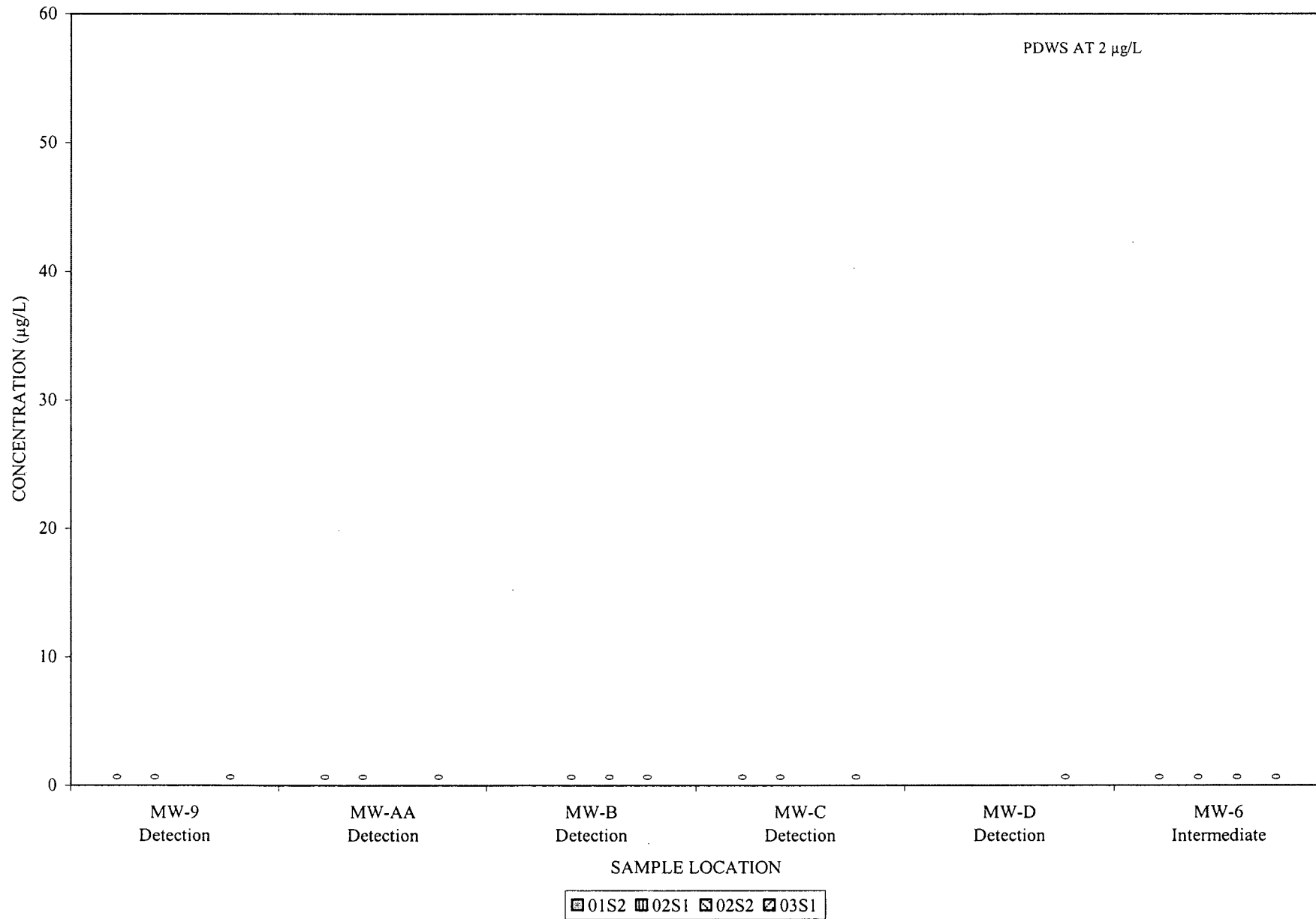
THALLIUM

CITRUS COUNTY CENTRAL LANDFILL

GROUNDWATER CHEMISTRY GRAPH



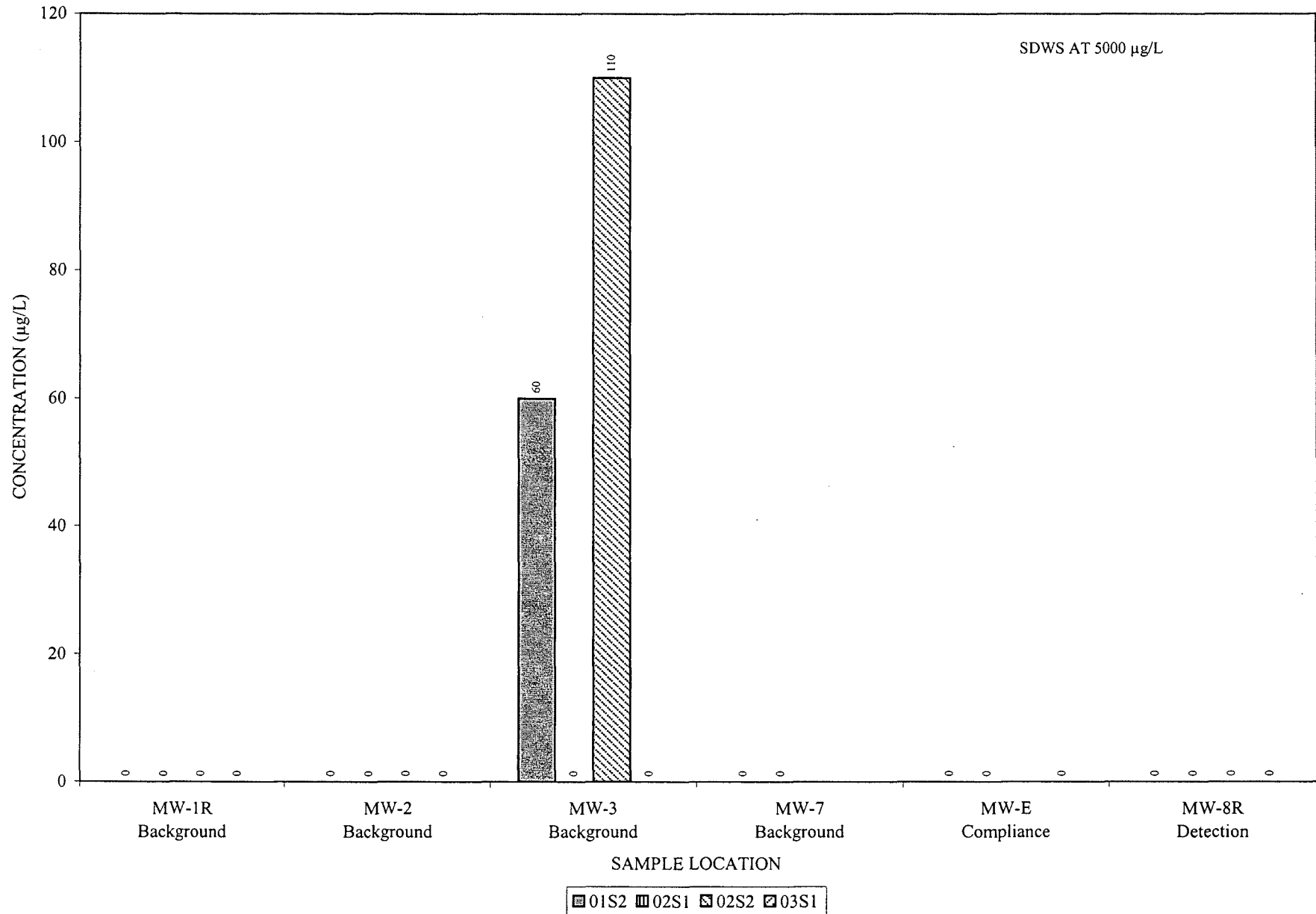
THALLIUM
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



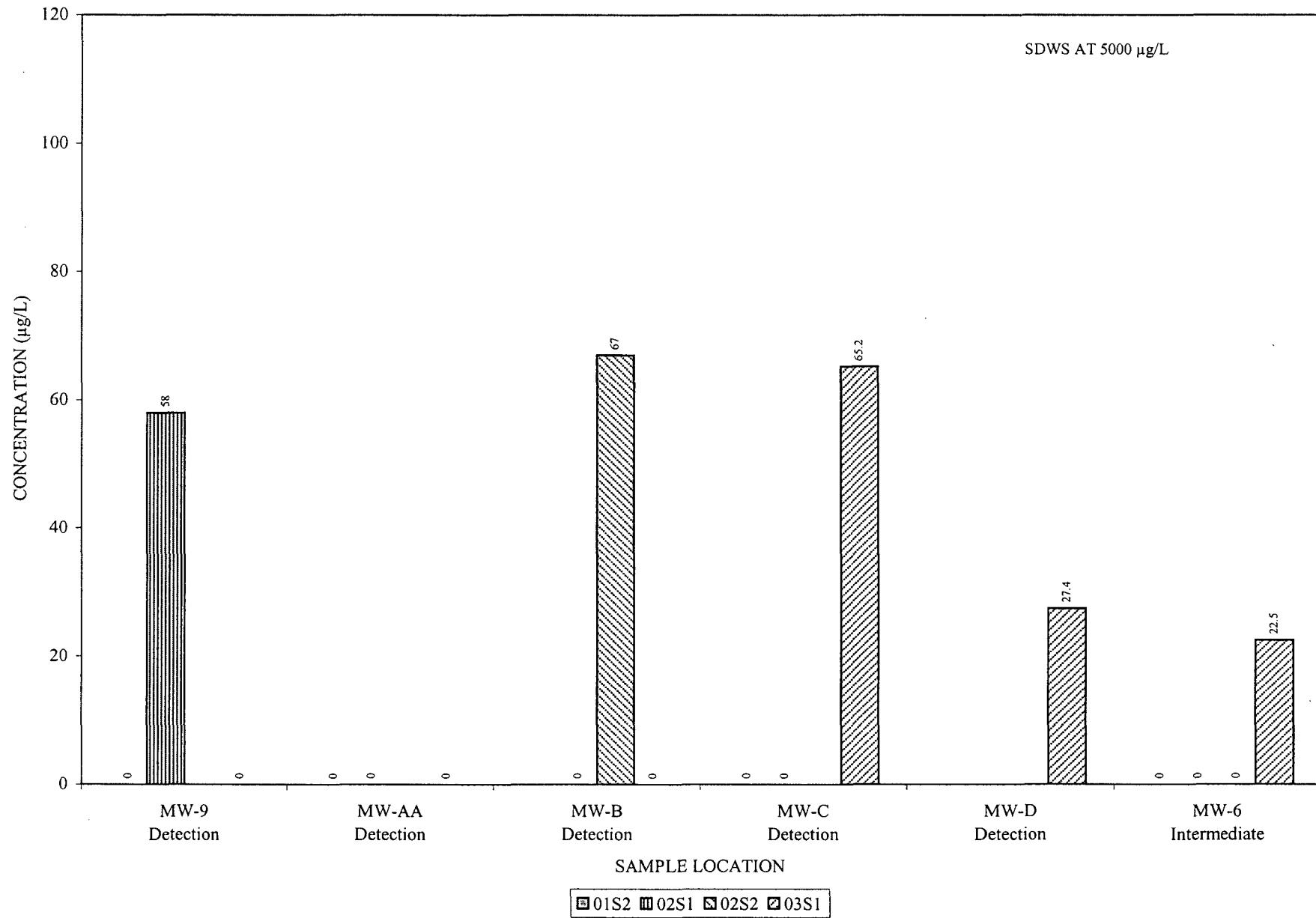
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ZINC

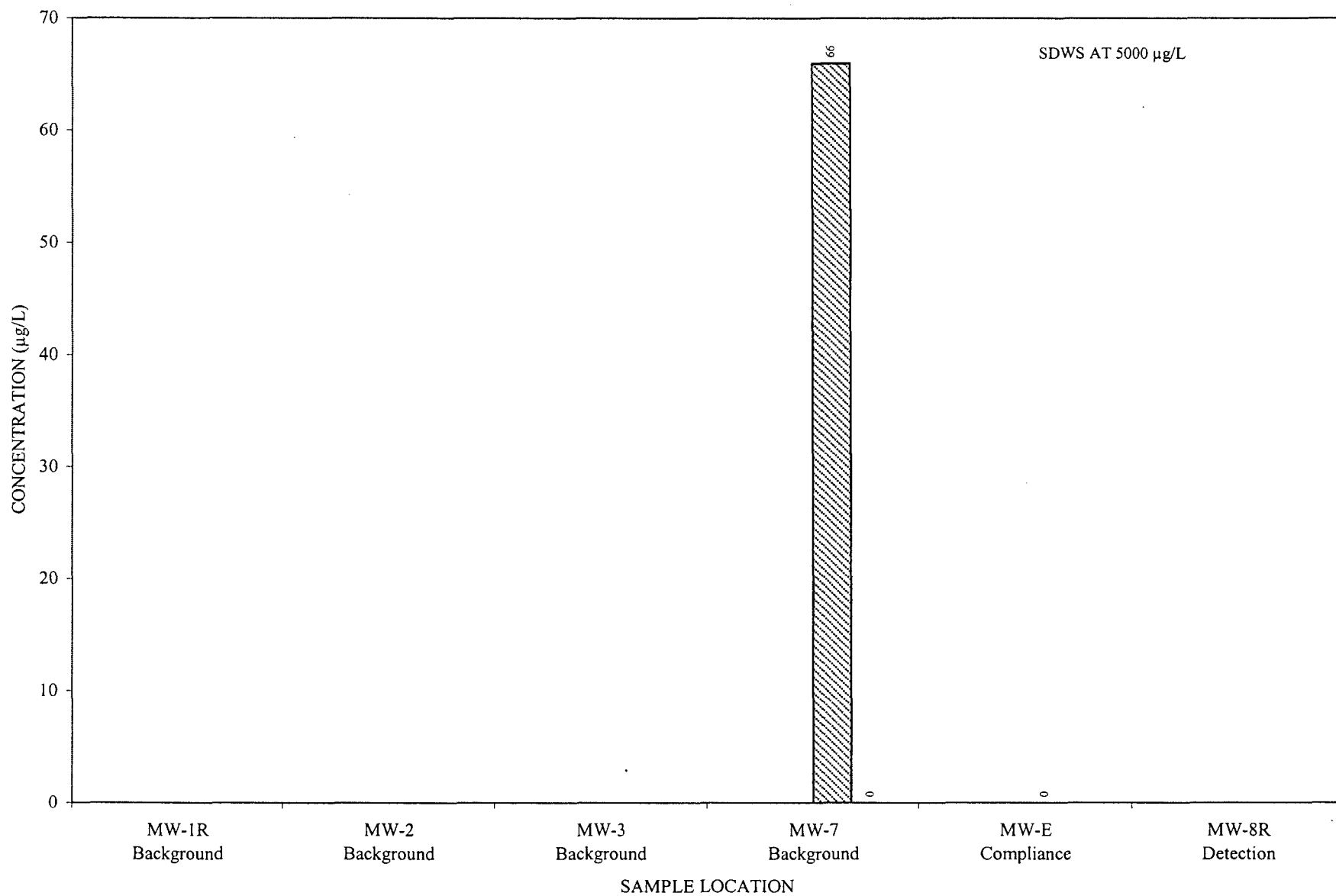
CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH



ZINC
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



ZINC: FILTERED
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH

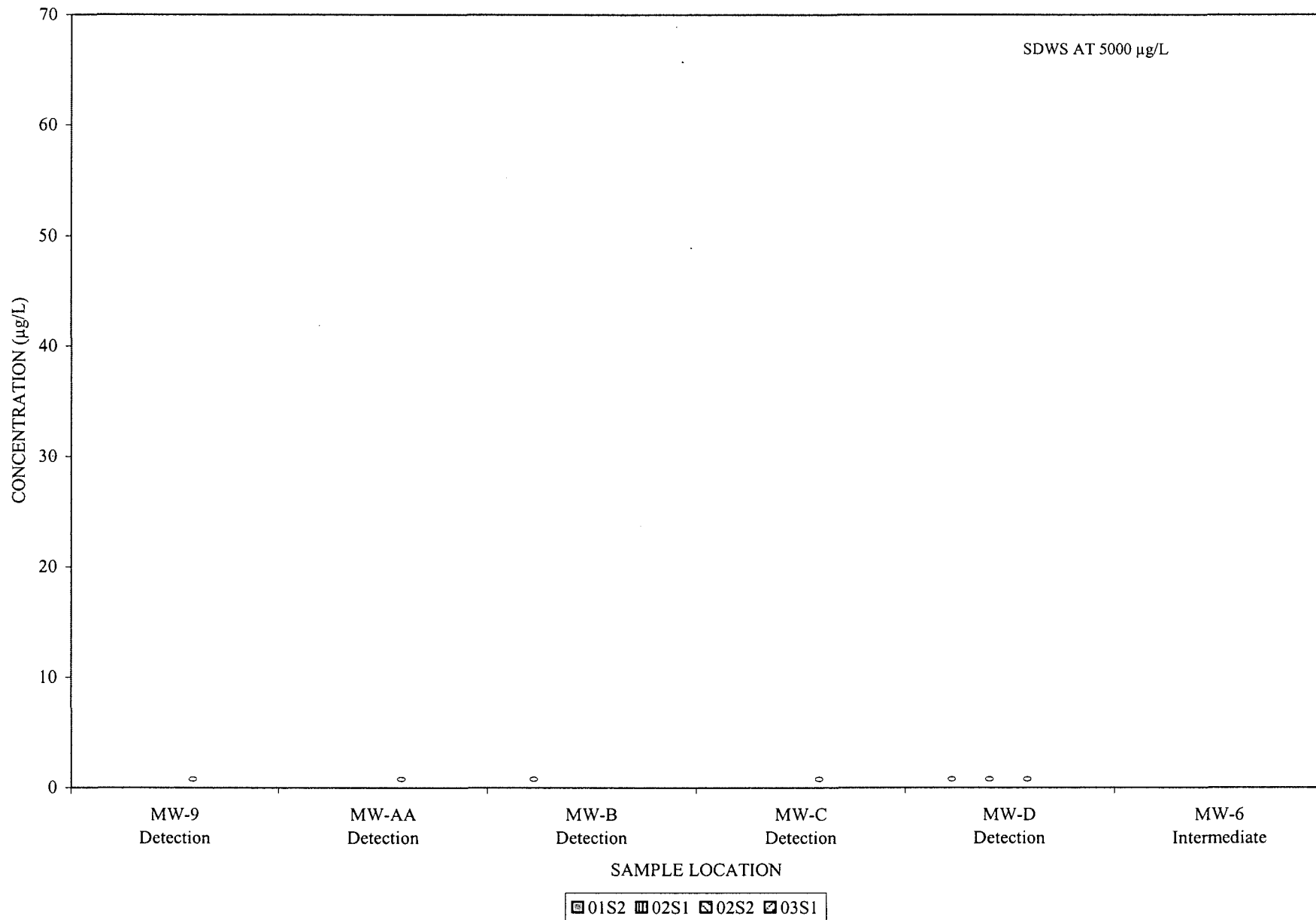


01S2 02S1 02S2 03S1

0 = BELOW LABORATORY DETECTION LIMIT

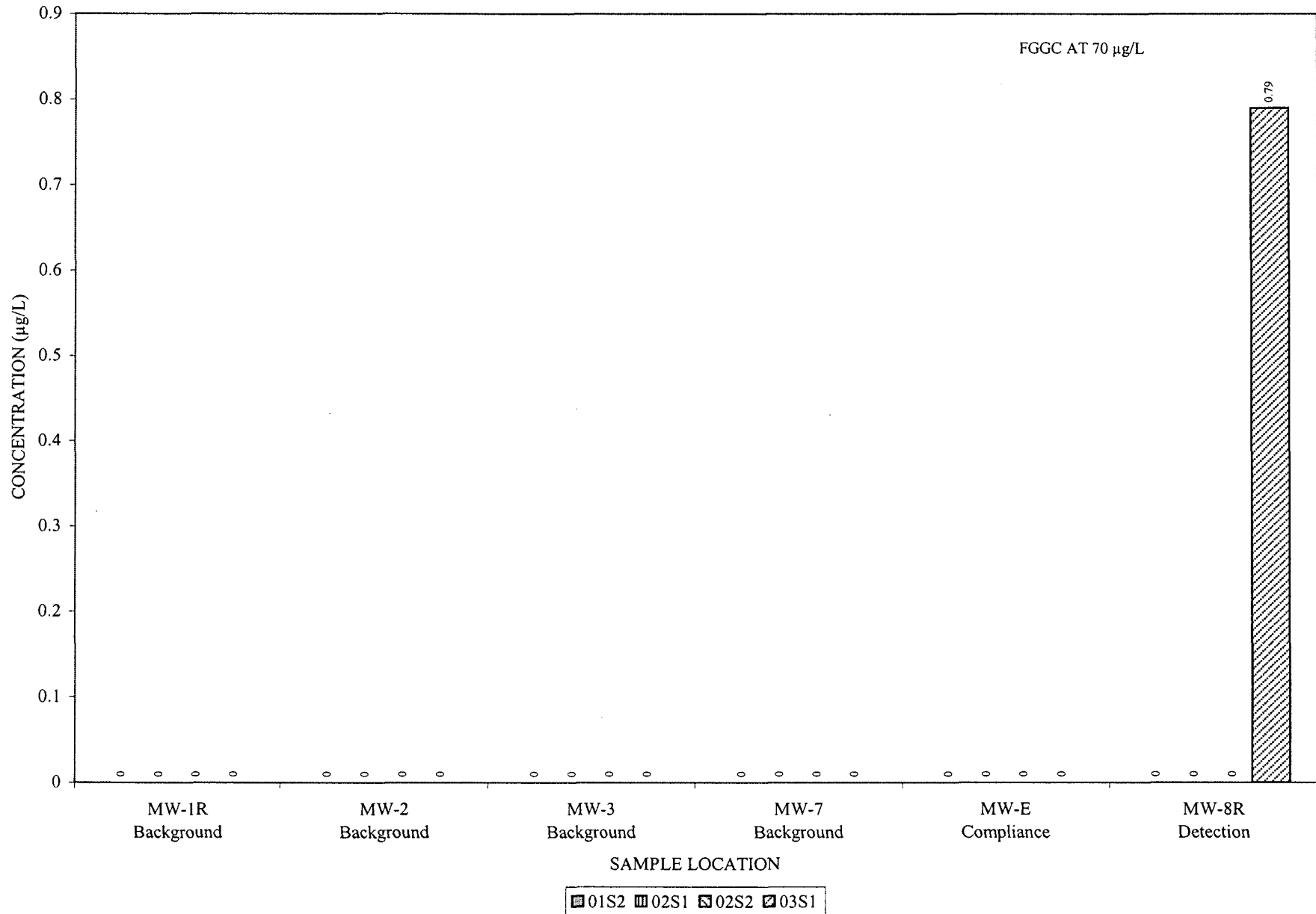
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ZINC: FILTERED
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



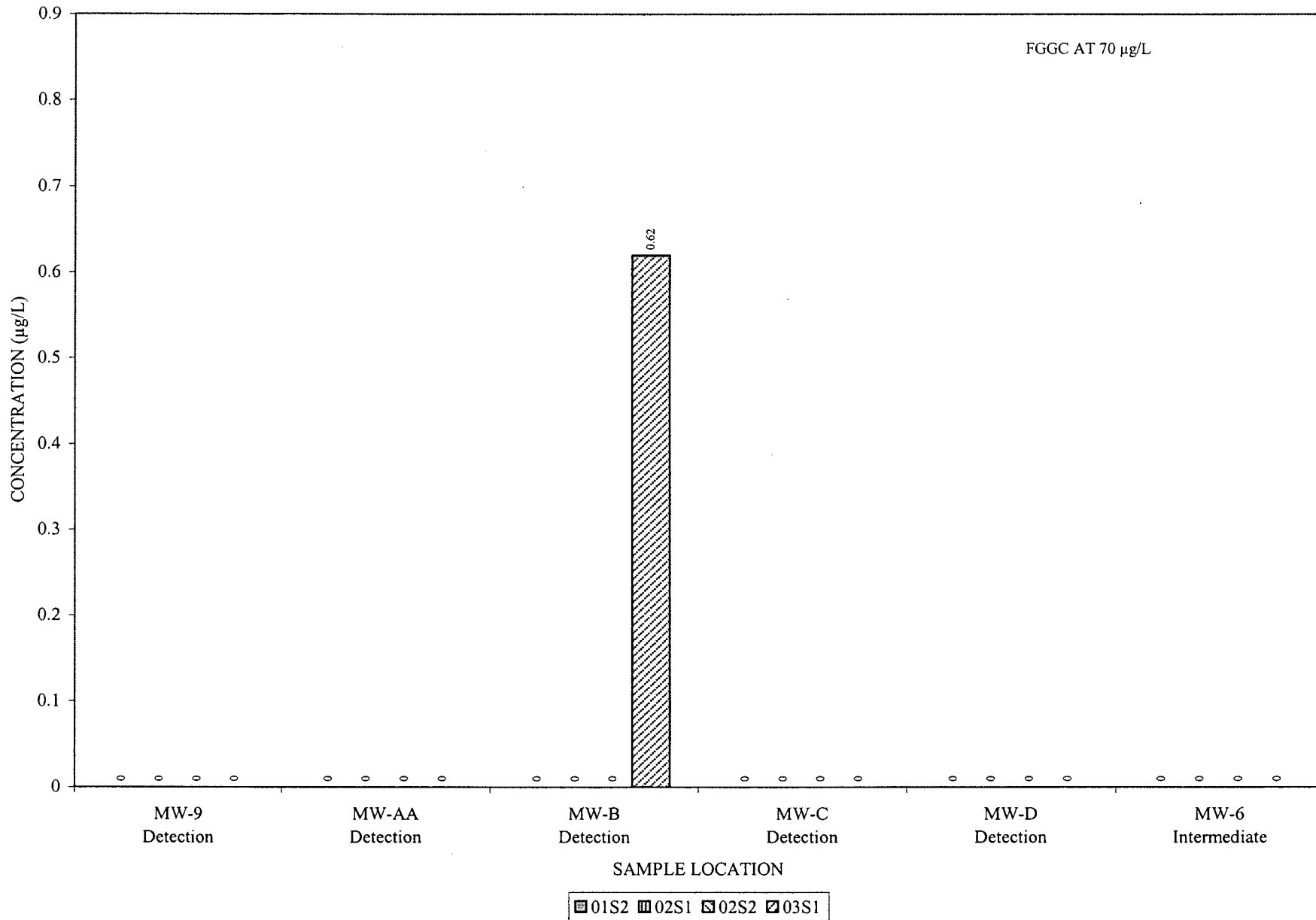
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1,1-DICHLOROETHANE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



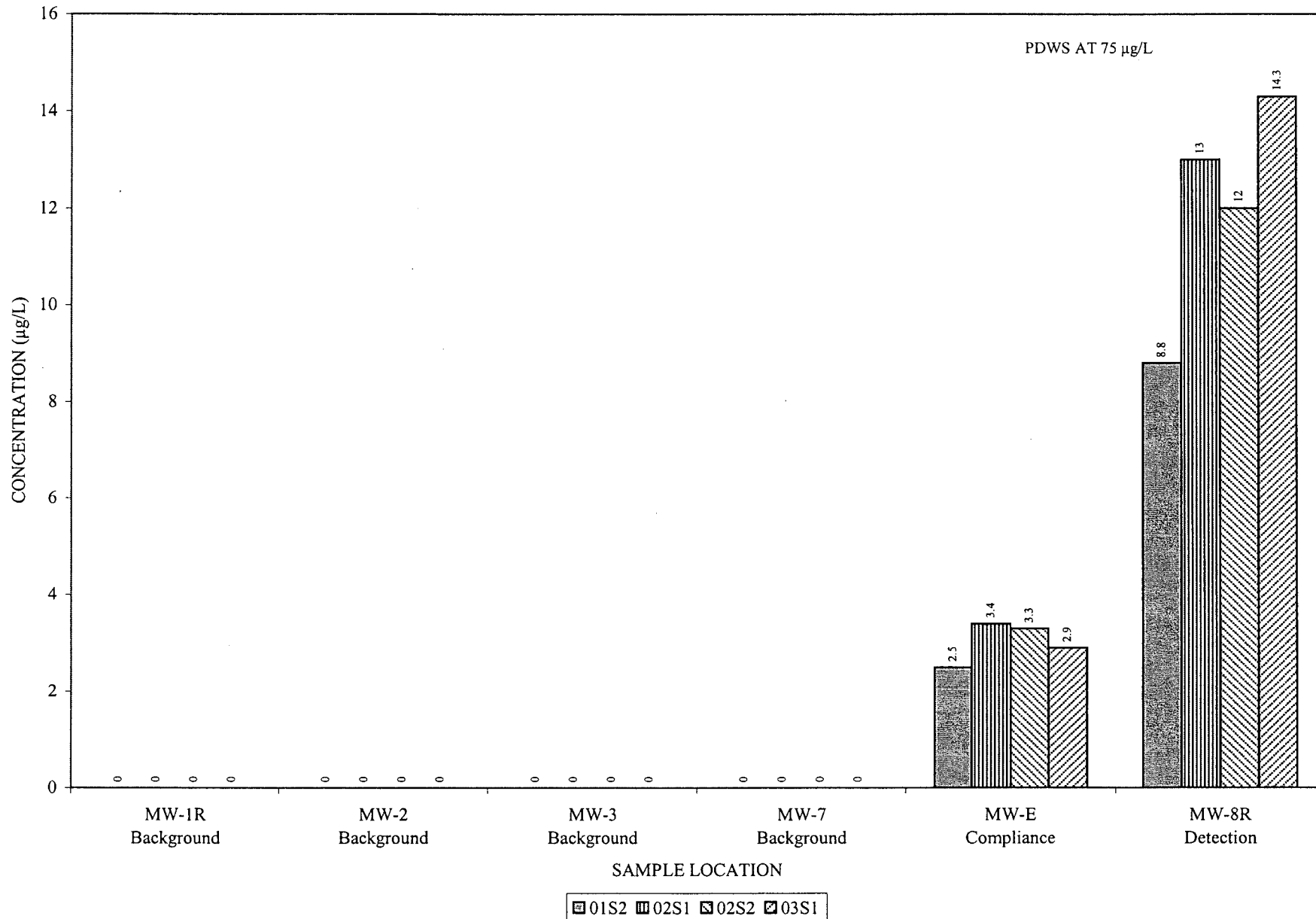
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1,1-DICHLOROETHANE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



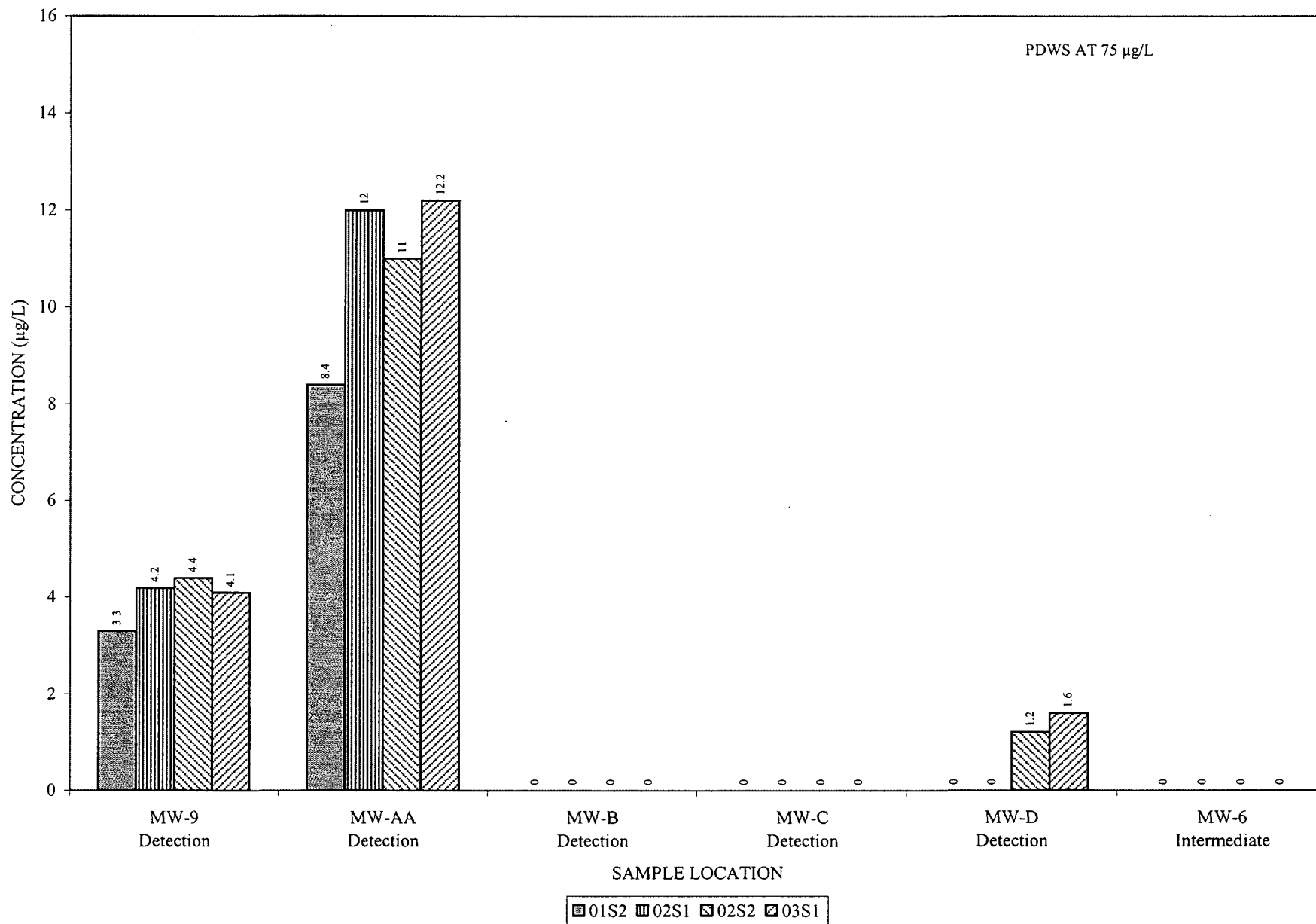
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1,4-DICHLOROBENZENE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH

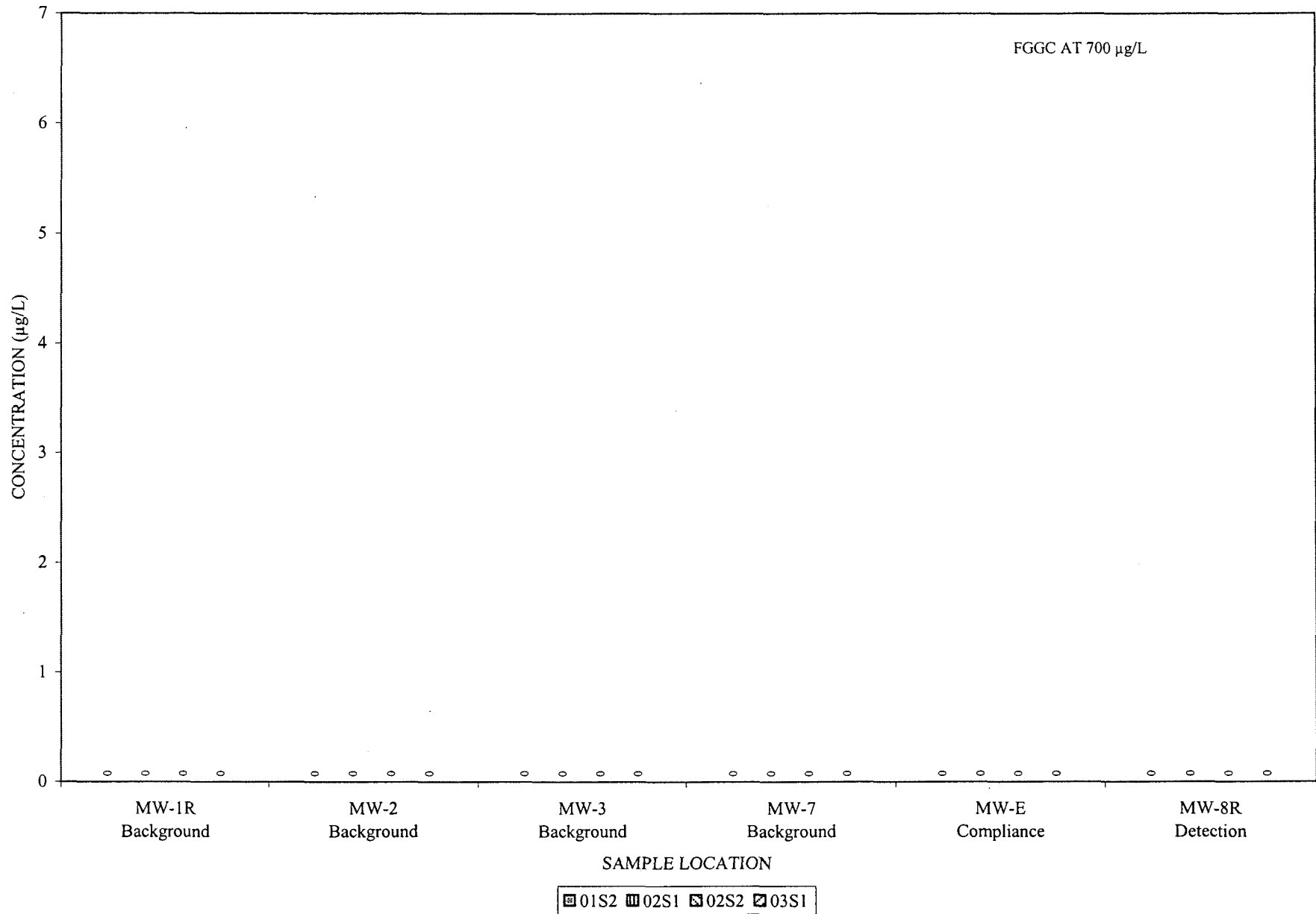


0 = BELOW LABORATORY DETECTION LIMIT

1,4-DICHLOROBENZENE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



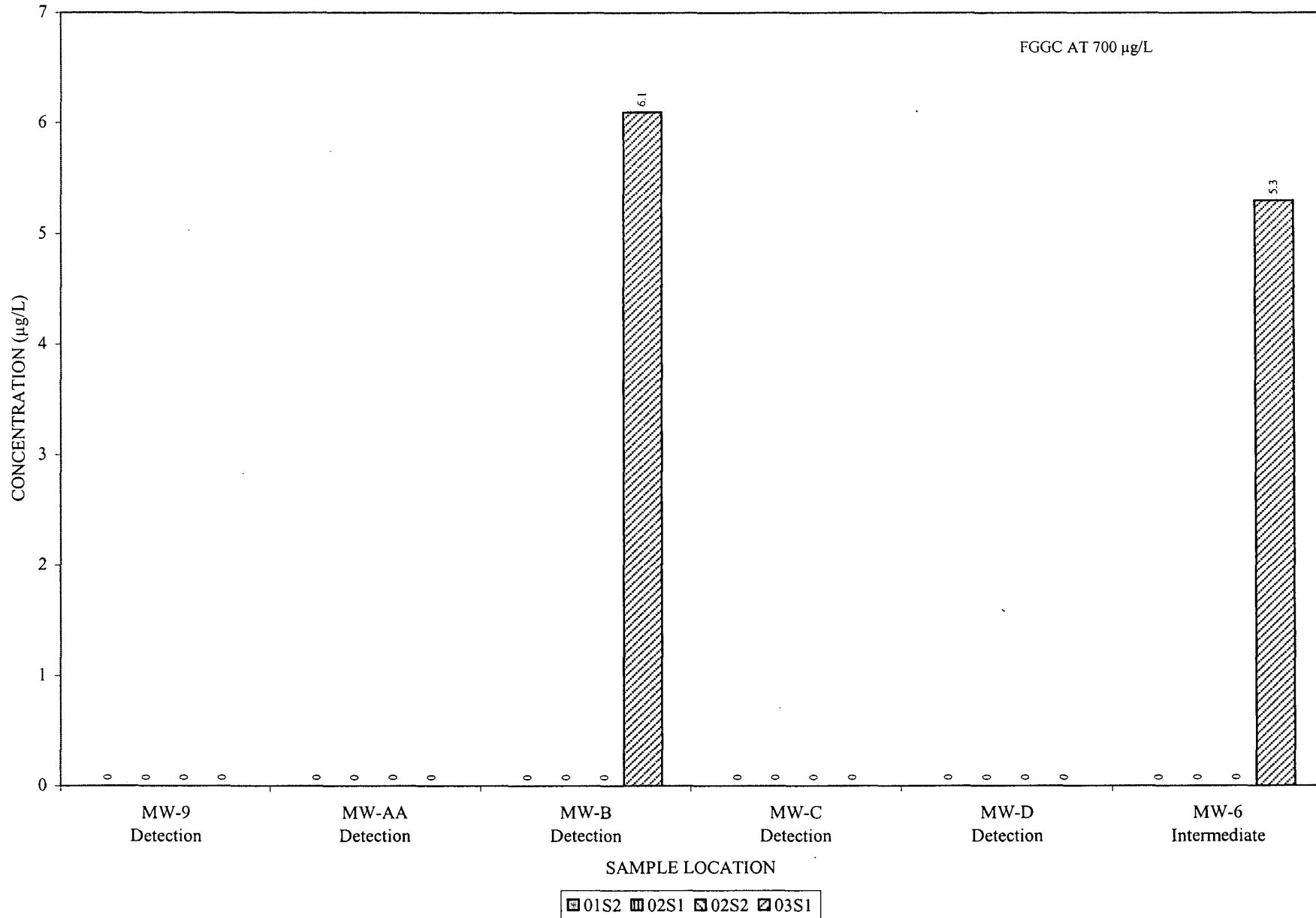
ACETONE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

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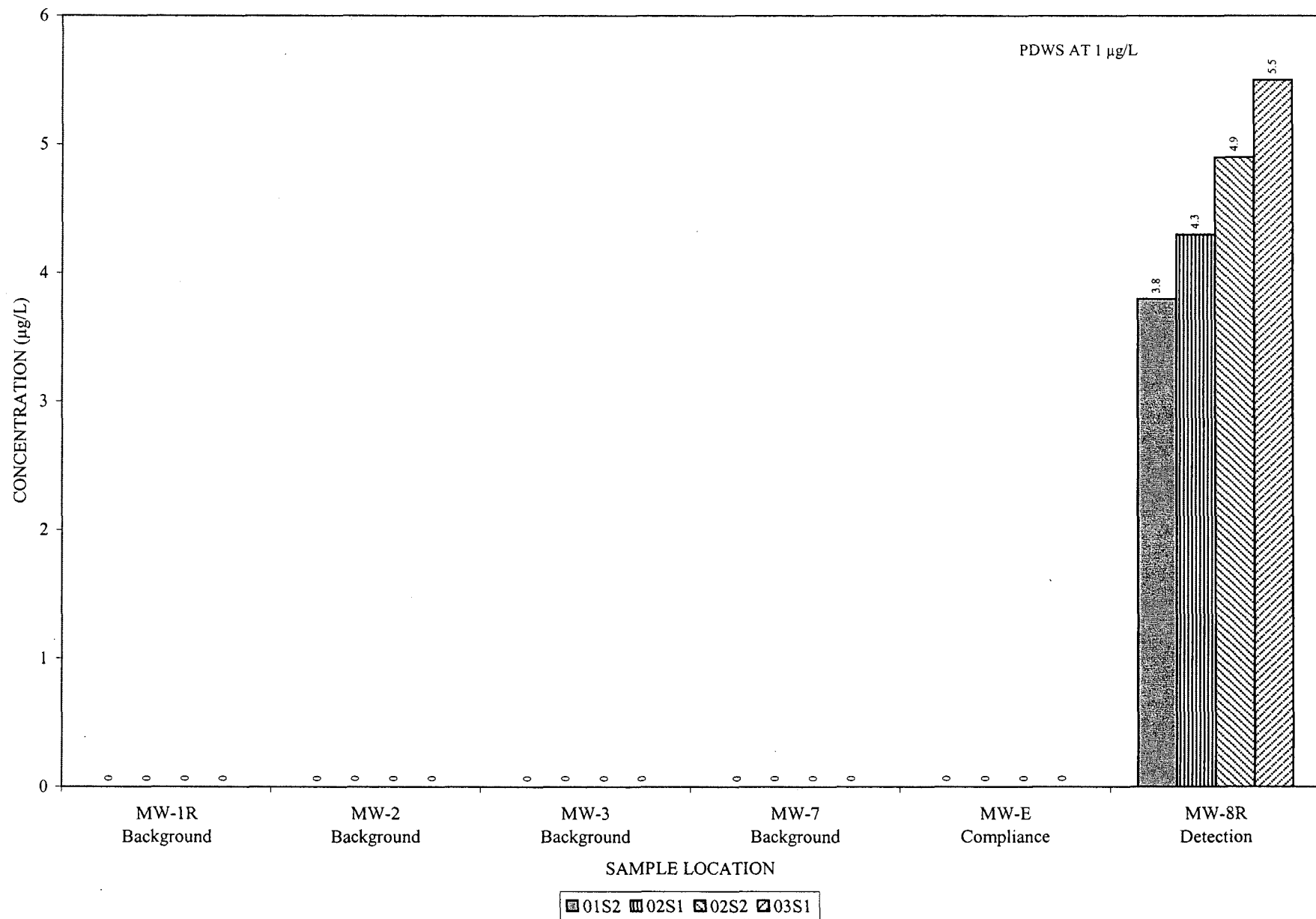
ACETONE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

BENZENE

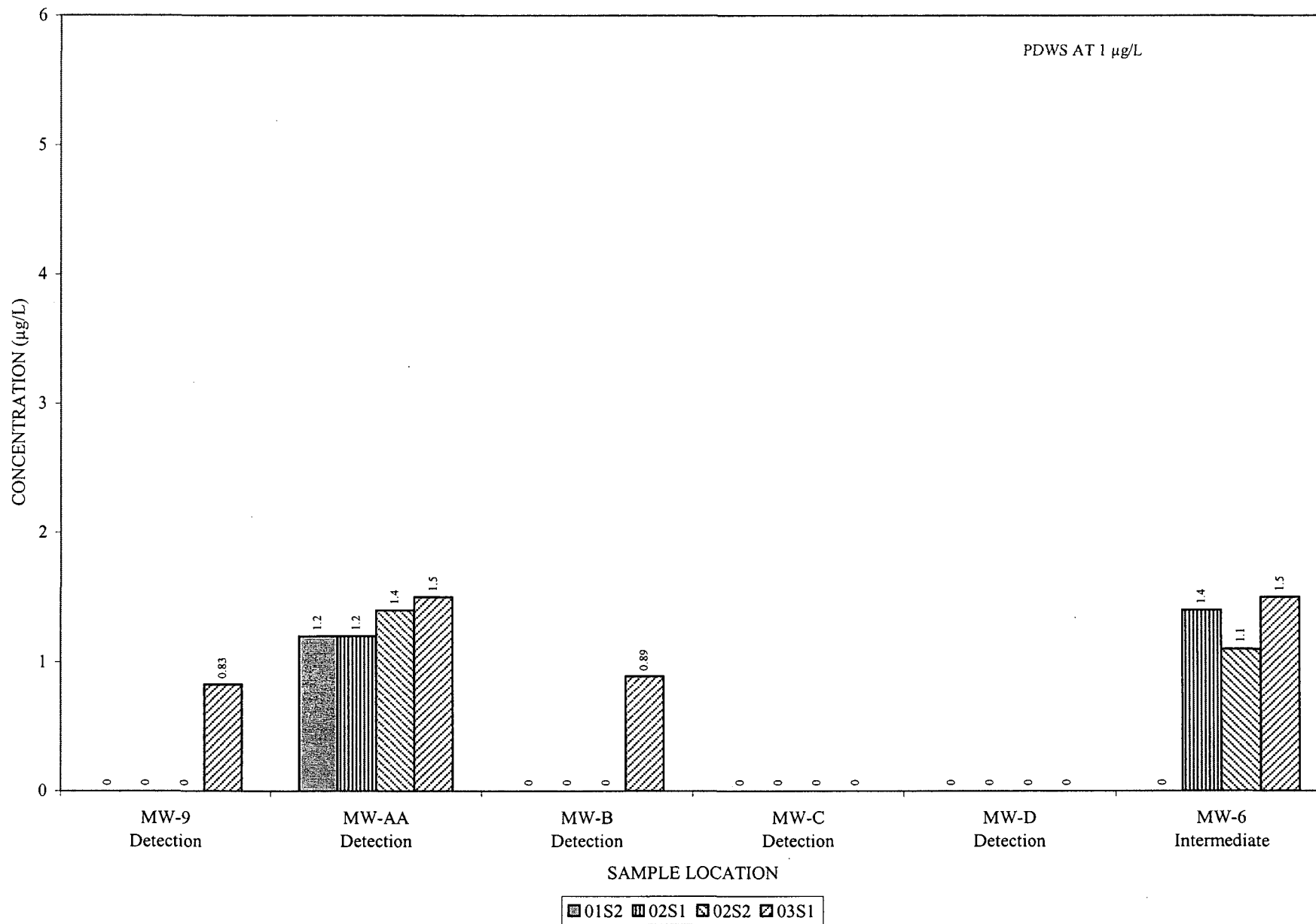
CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH



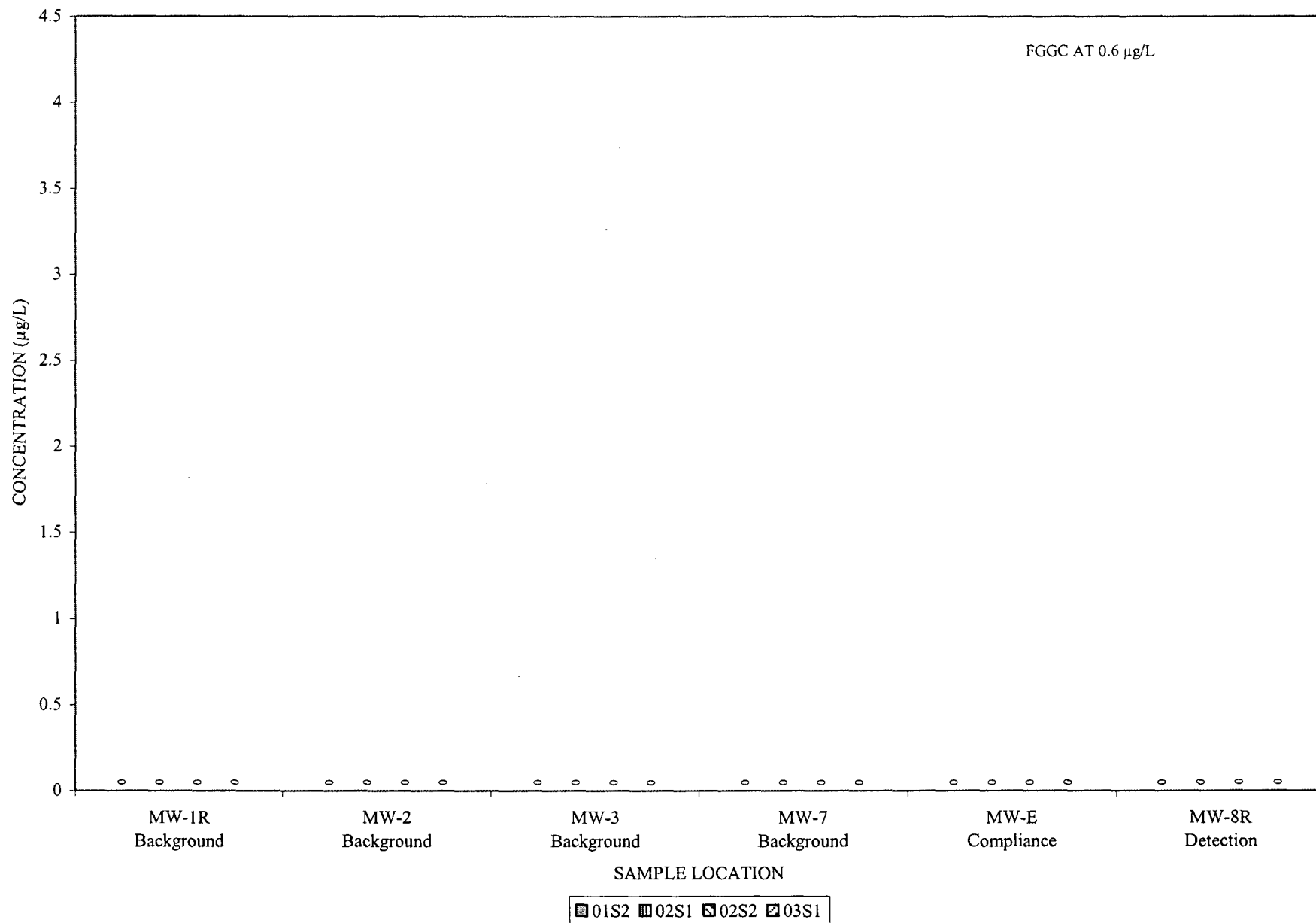
0 = BELOW LABORATORY DETECTION LIMIT

BENZENE

CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH

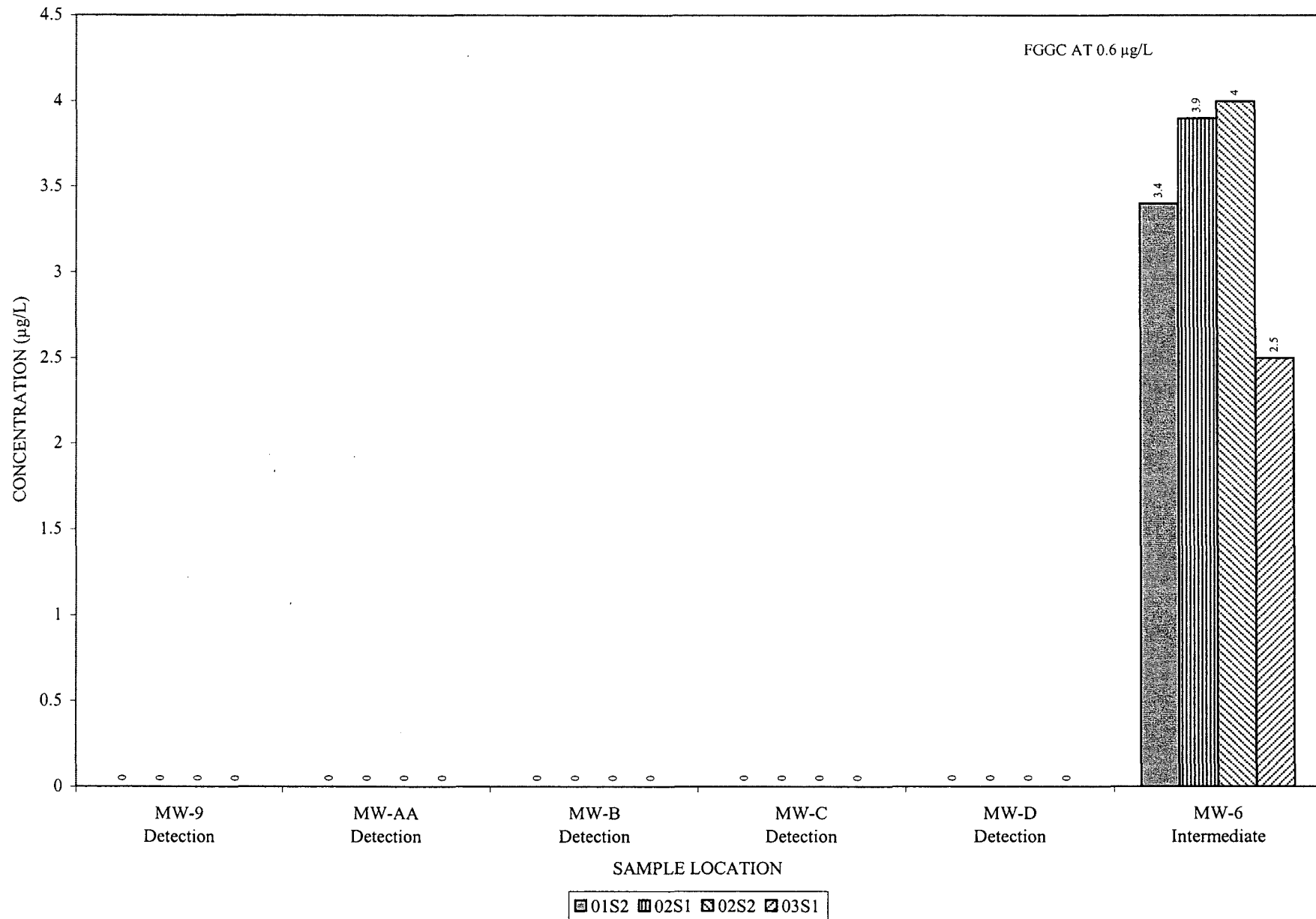


BROMODICHLOROMETHANE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

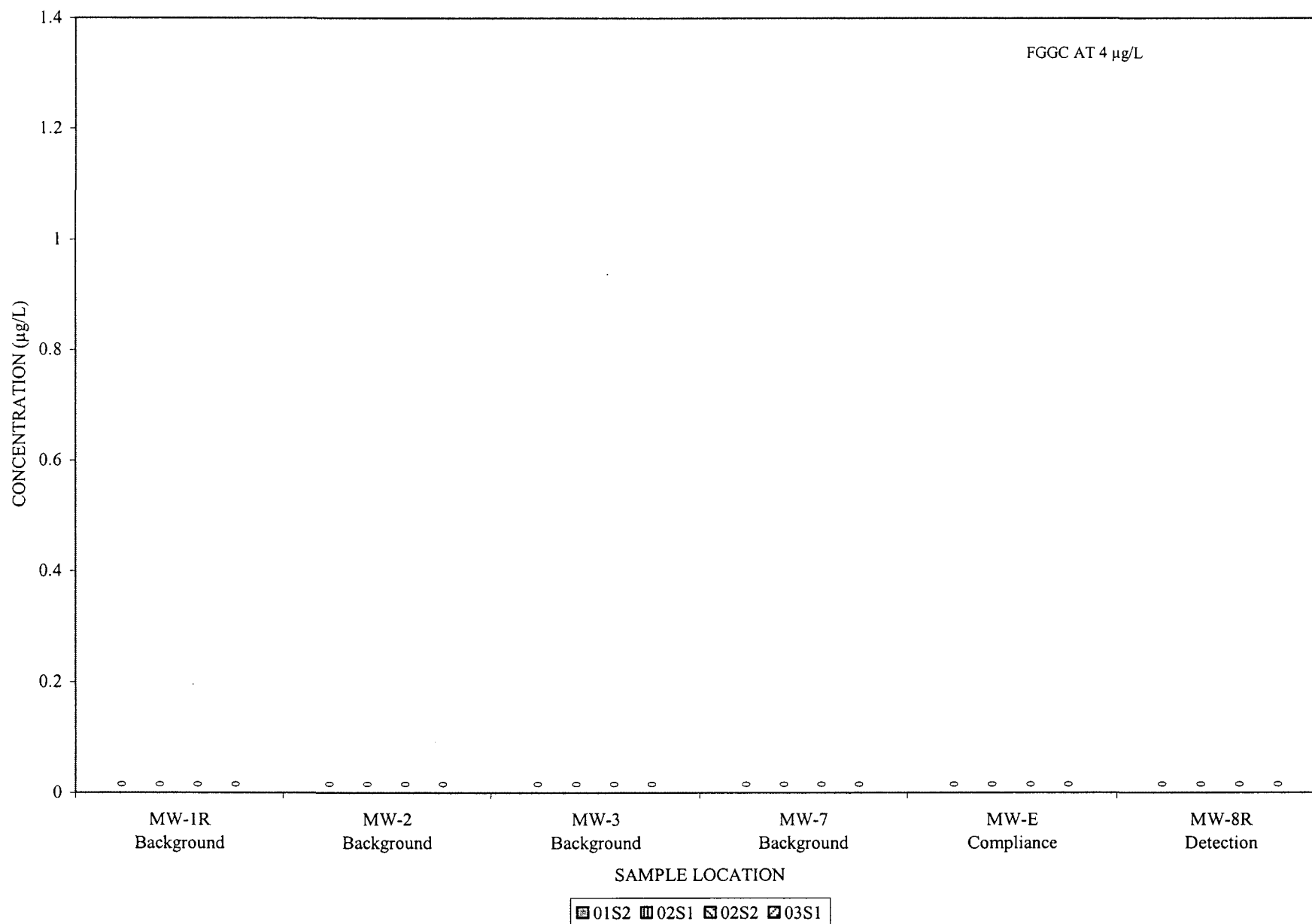
BROMODICHLOROMETHANE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

BROMOFORM

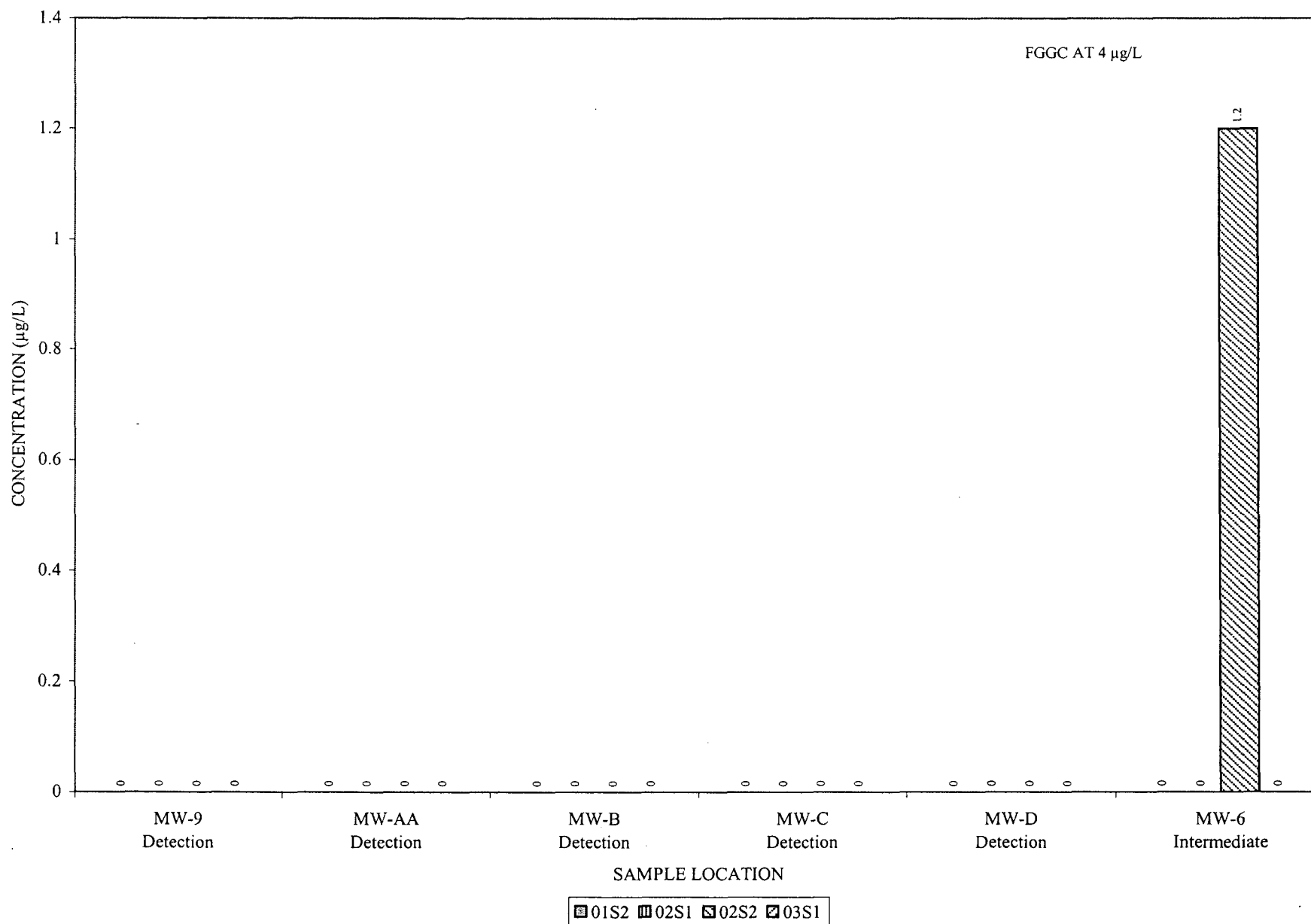
CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

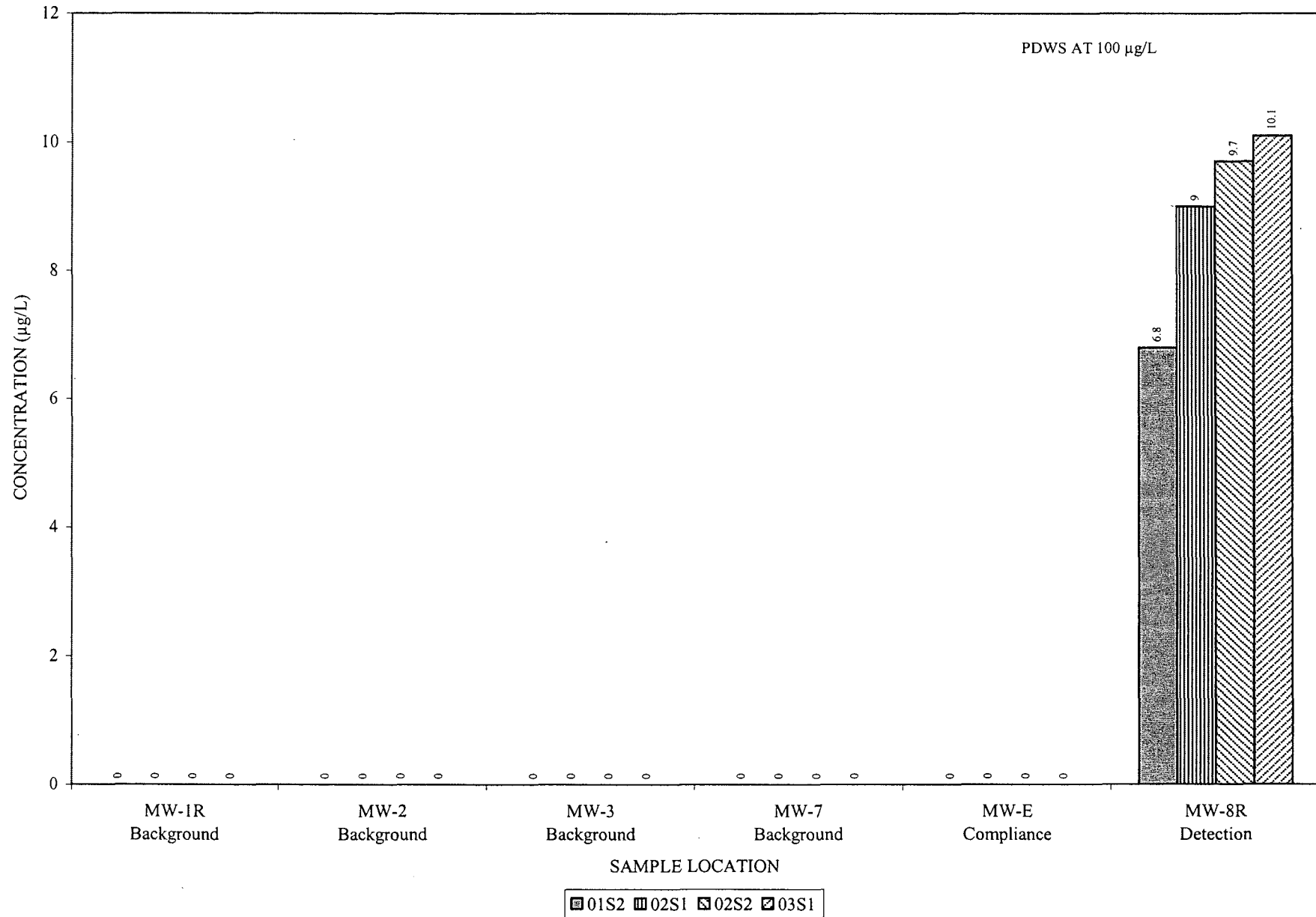
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BROMOFORM
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



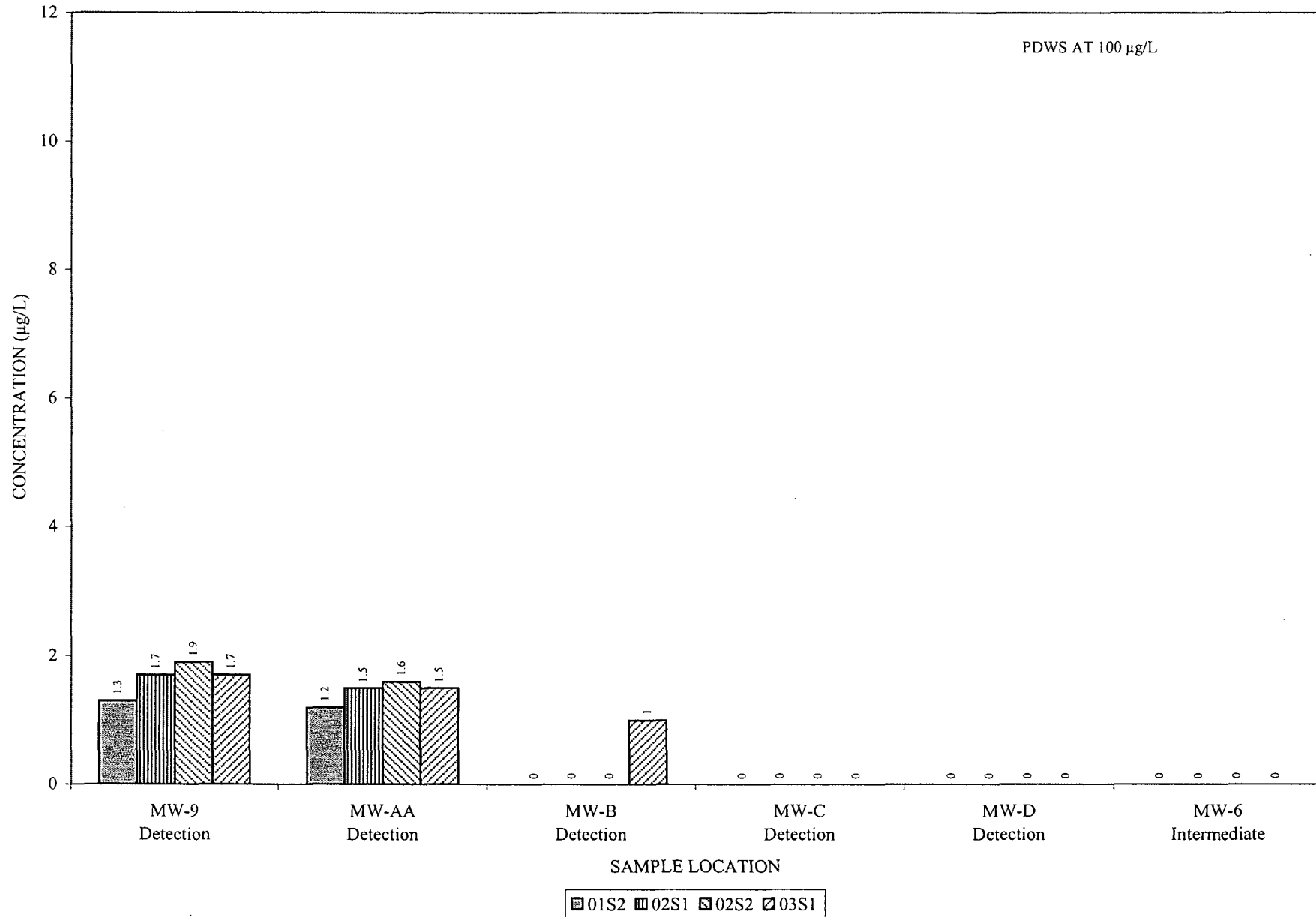
0 = BELOW LABORATORY DETECTION LIMIT

CHLOROBENZENE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

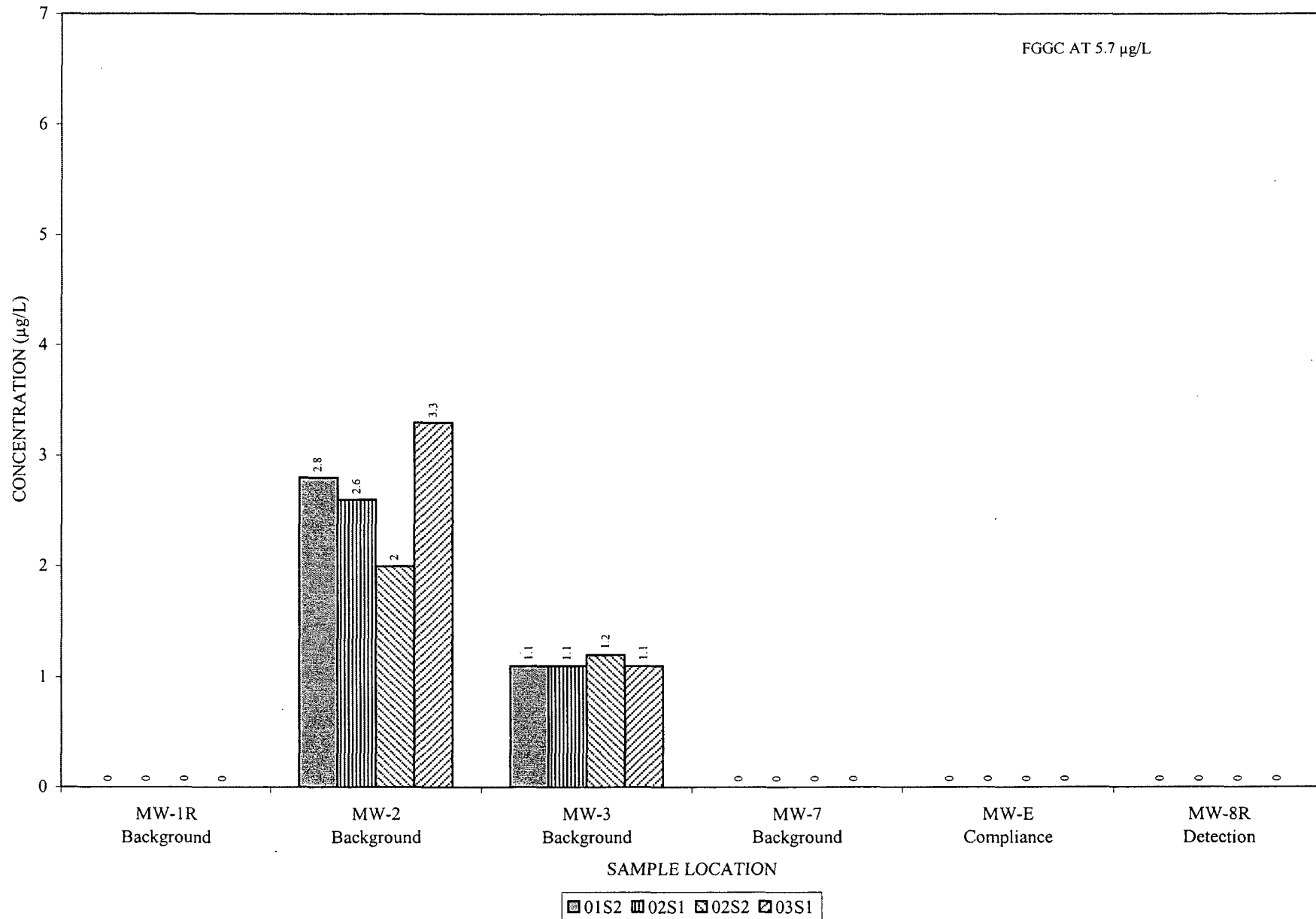
CHLOROBENZENE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

CHLOROFORM

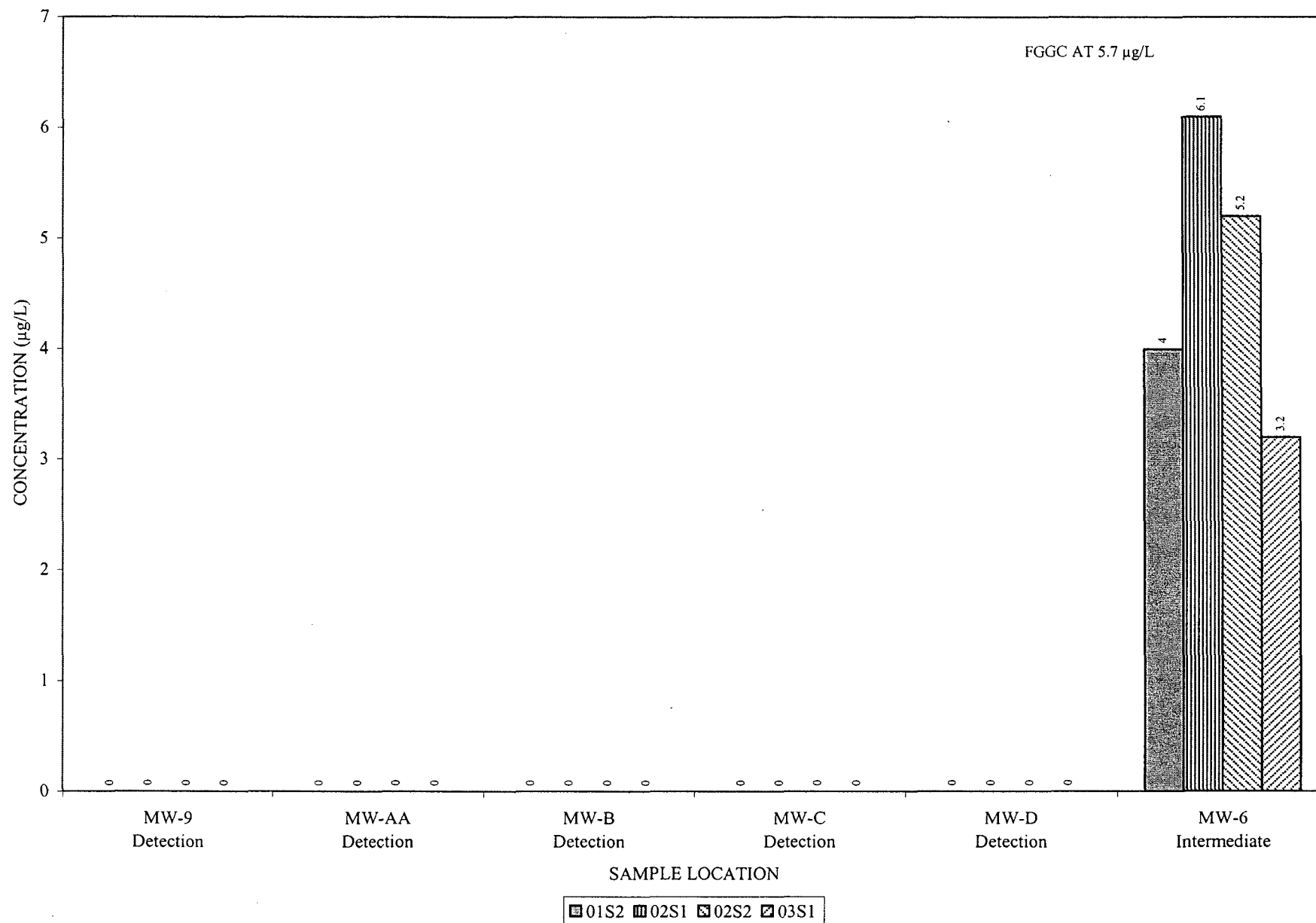
CITRUS COUNTY CENTRAL LANDFILL GROUNDWATER CHEMISTRY GRAPH



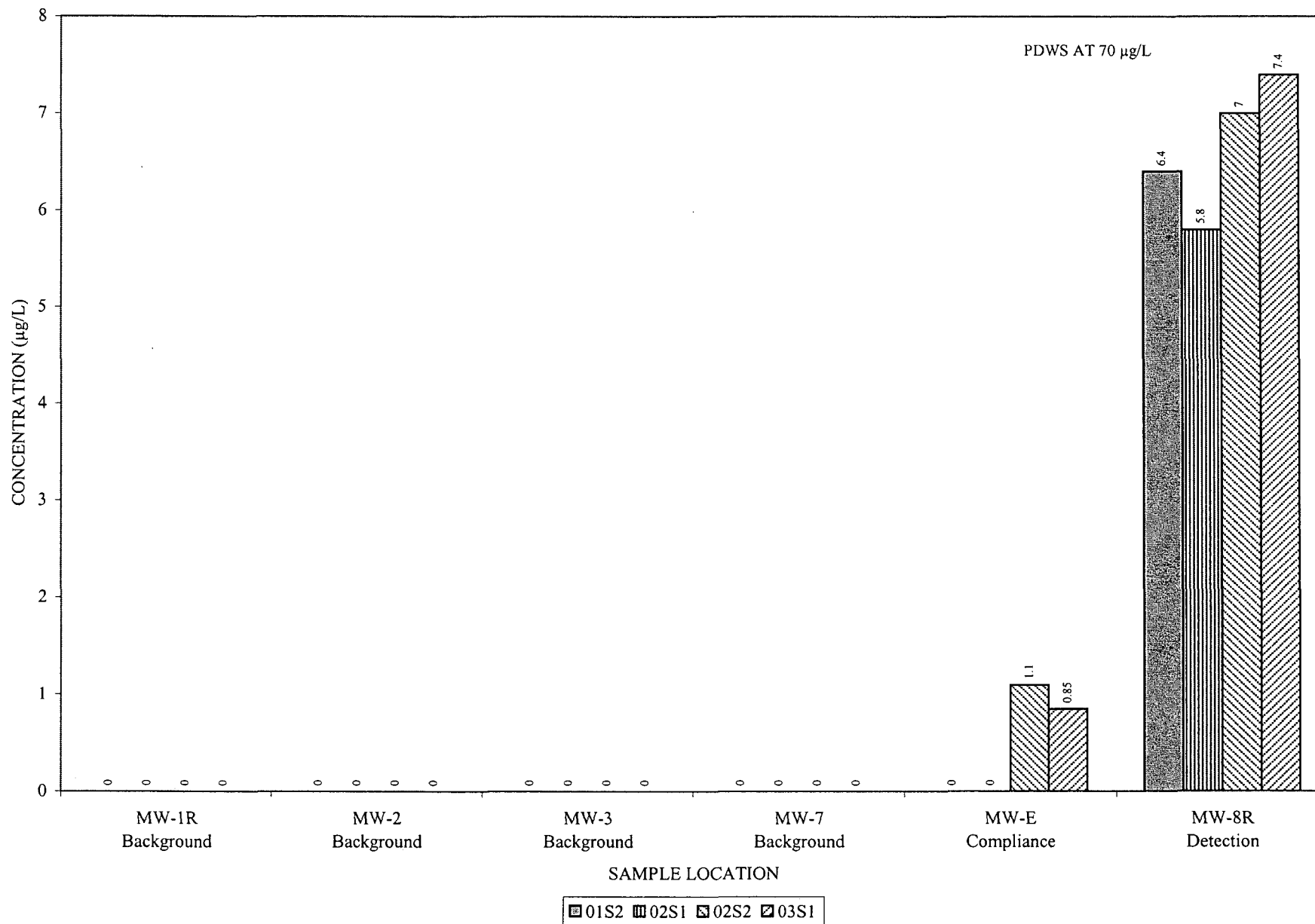
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CITRUS COUNTY CENTRAL LANDFILL

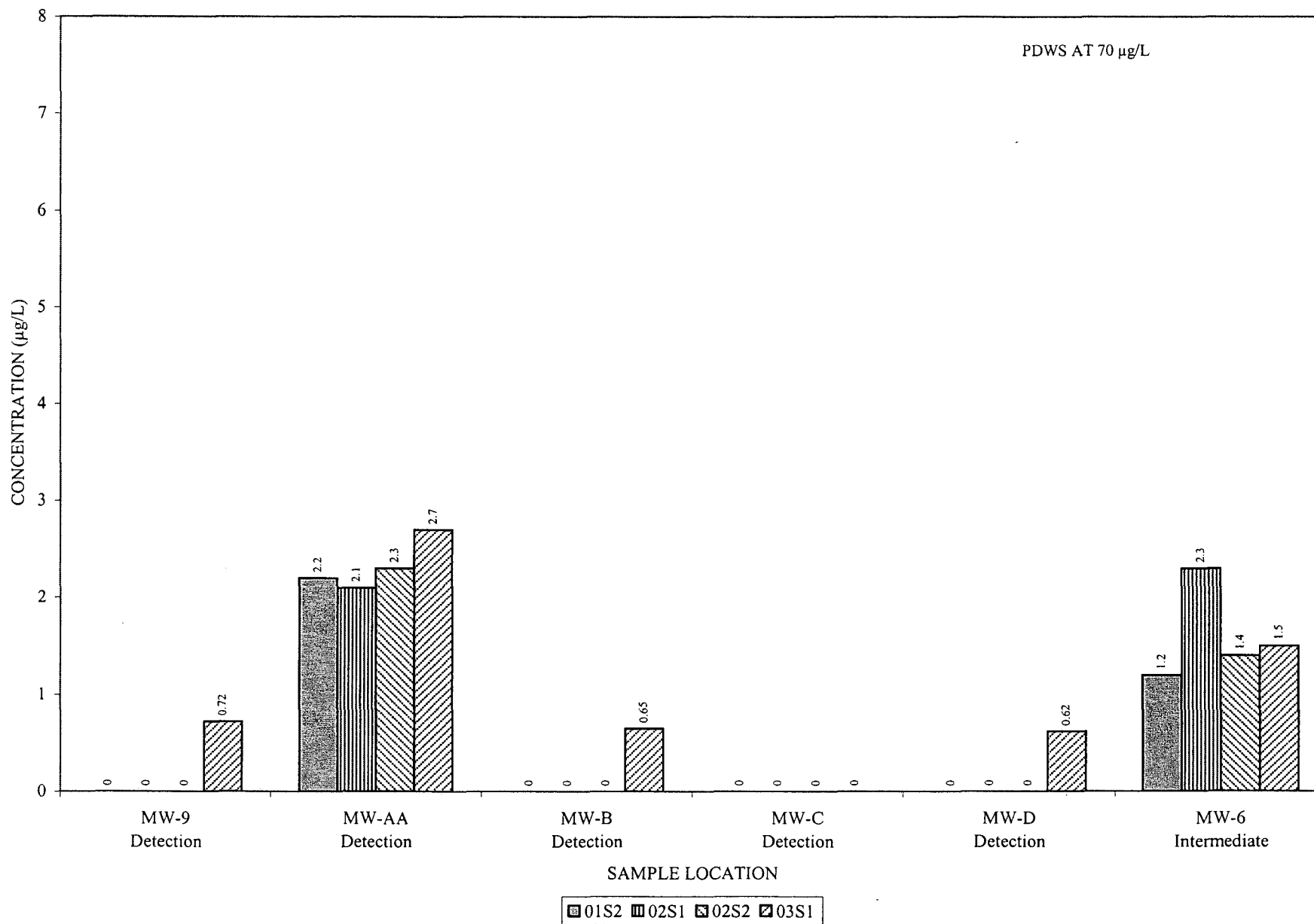
GROUNDWATER CHEMISTRY GRAPH



CIS-1,2-DICHLOROETHYLENE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH

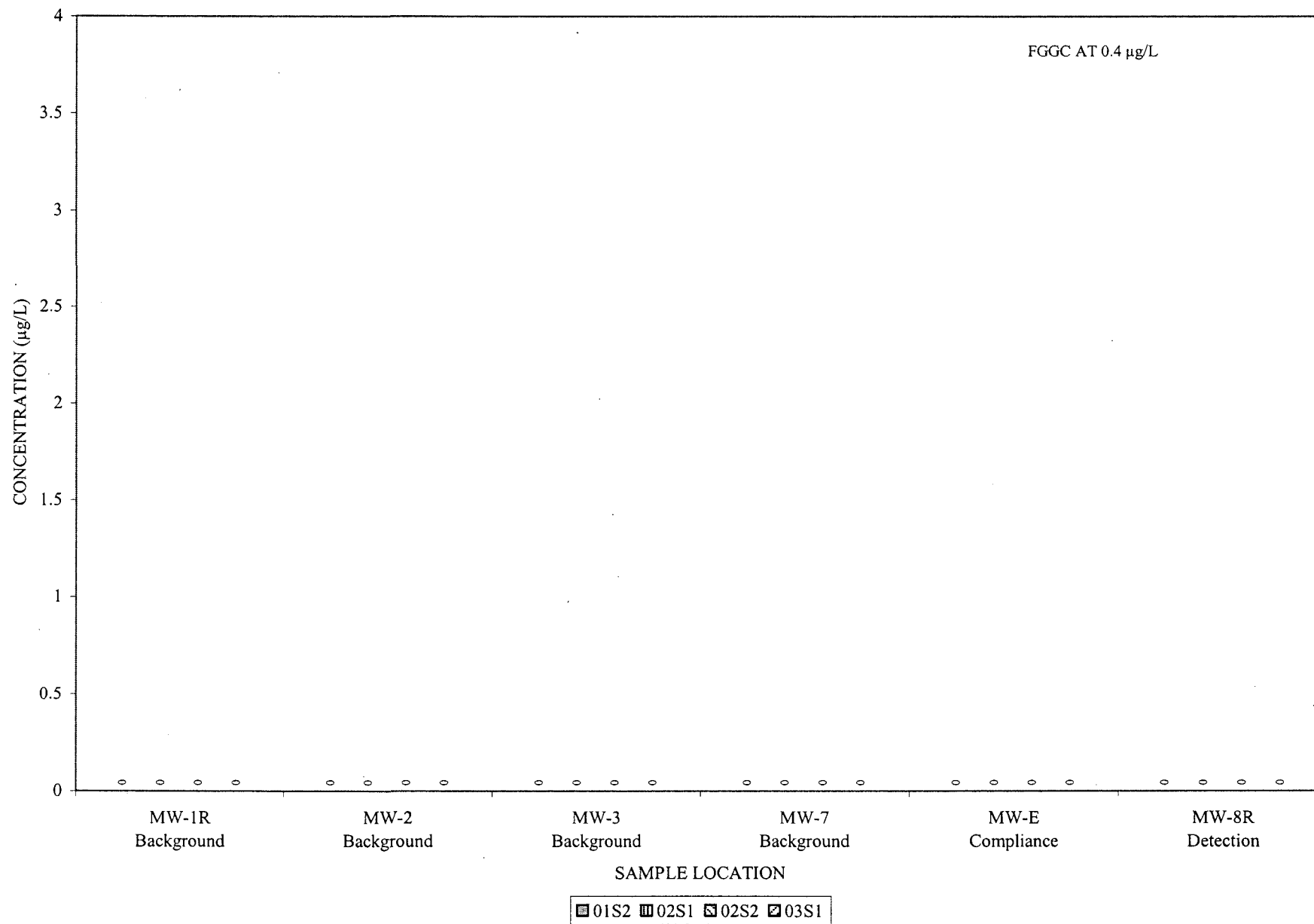


CIS-1,2-DICHLOROETHYLENE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH

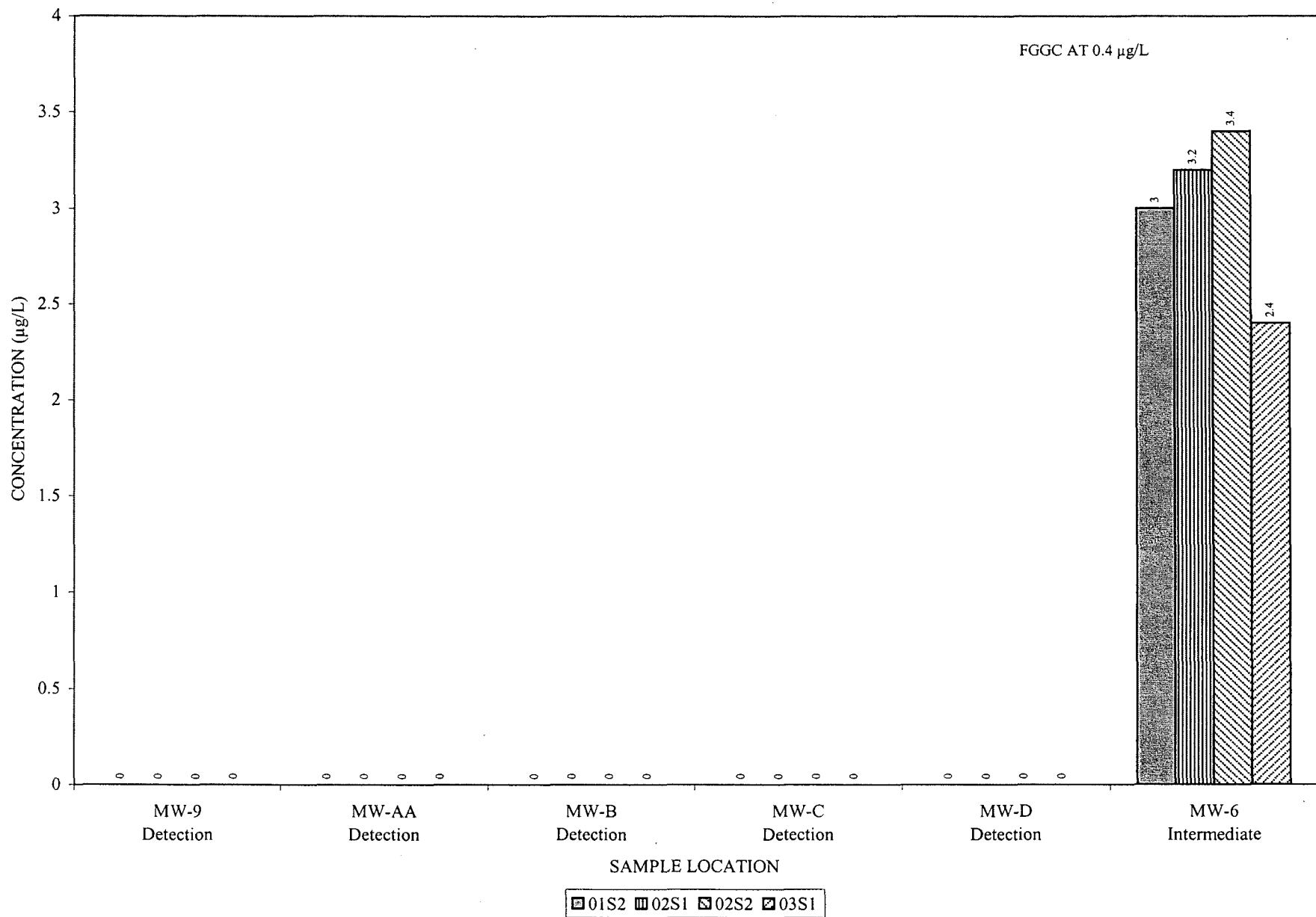


0 = BELOW LABORATORY DETECTION LIMIT

DIBROMOCHLOROMETHANE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH

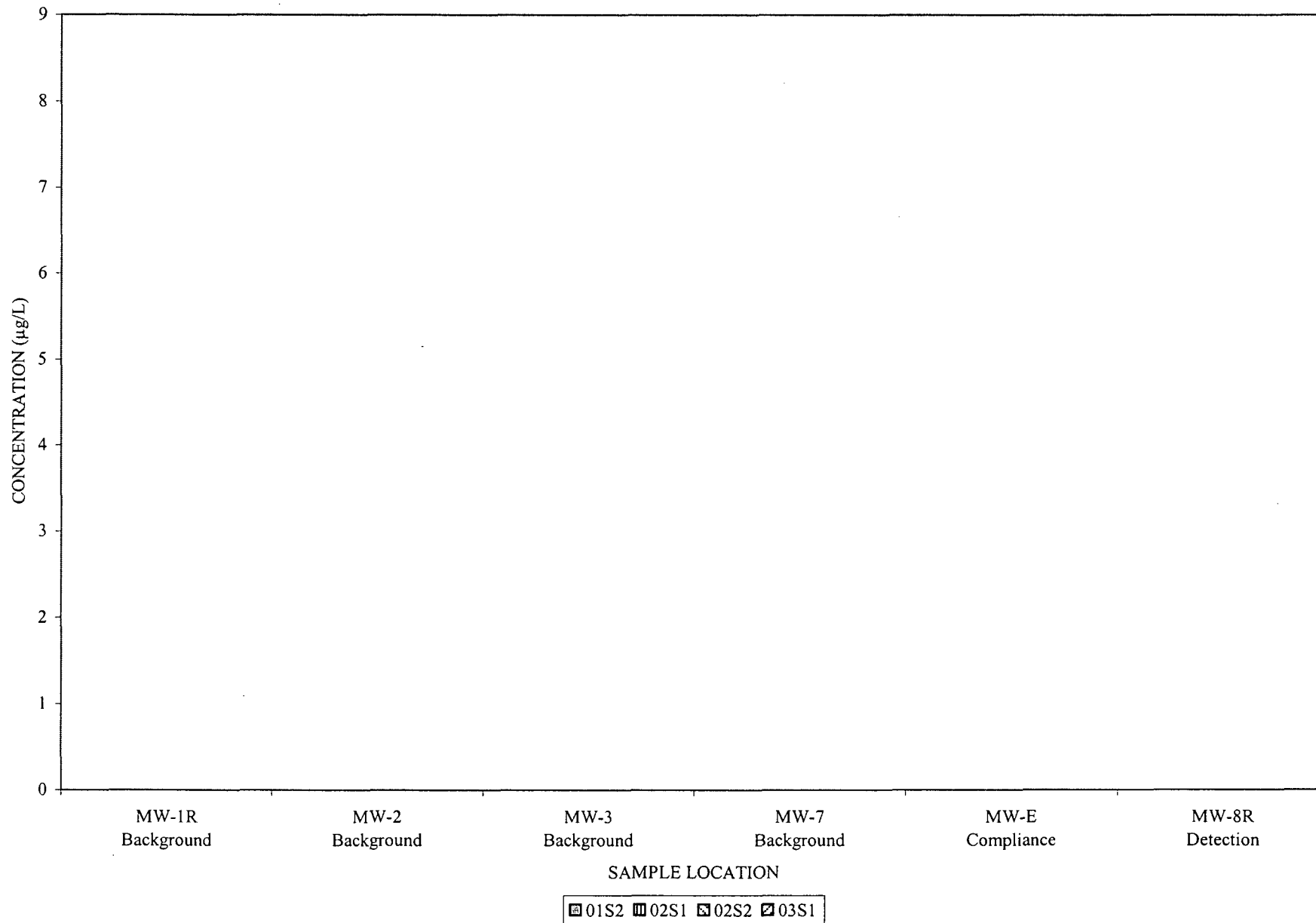


DIBROMOCHLOROMETHANE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

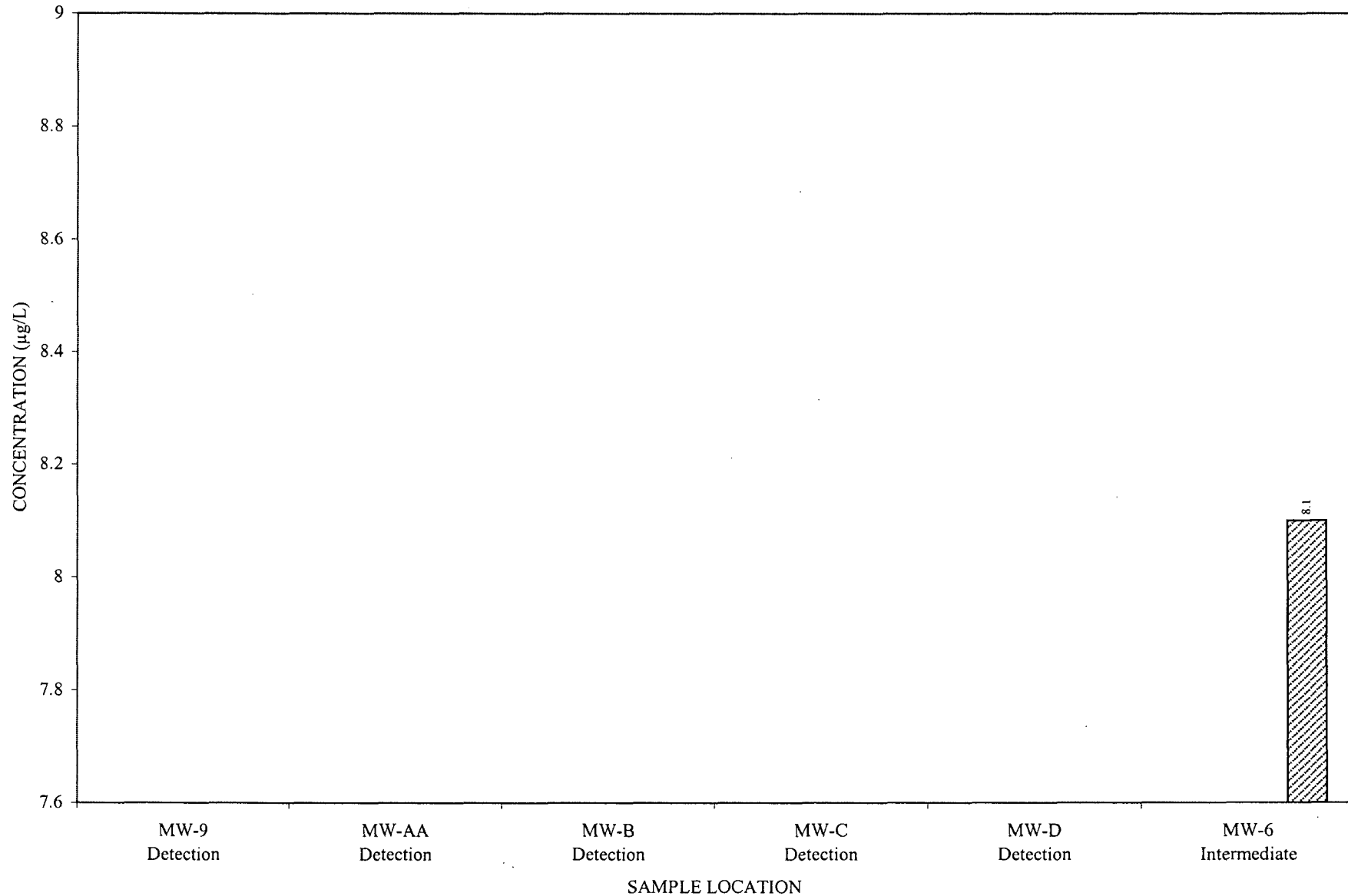
TOTAL TRIHALOMETHANES
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

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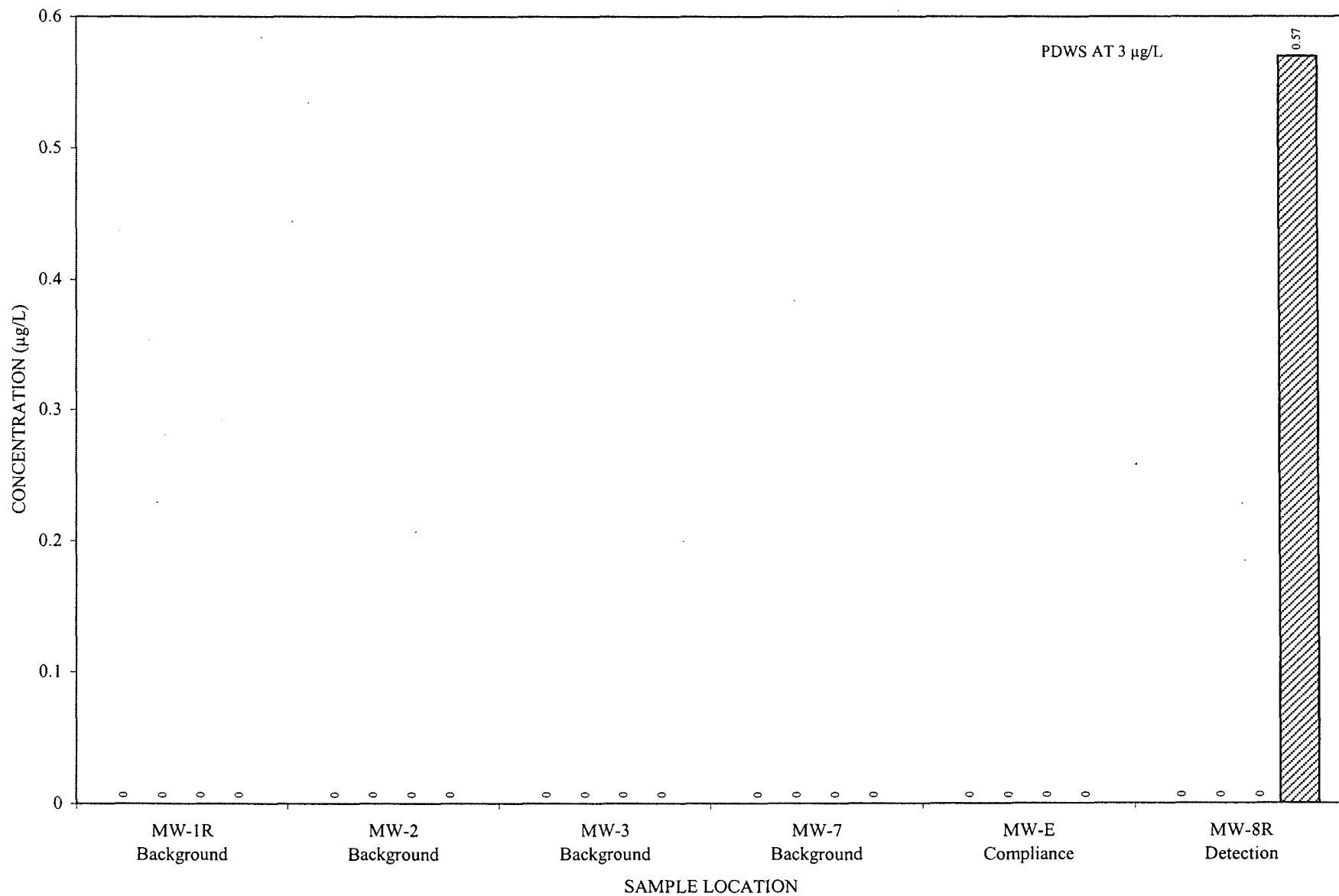
TOTAL TRIHALOMETHANES
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

01S2 02S1 02S2 03S1

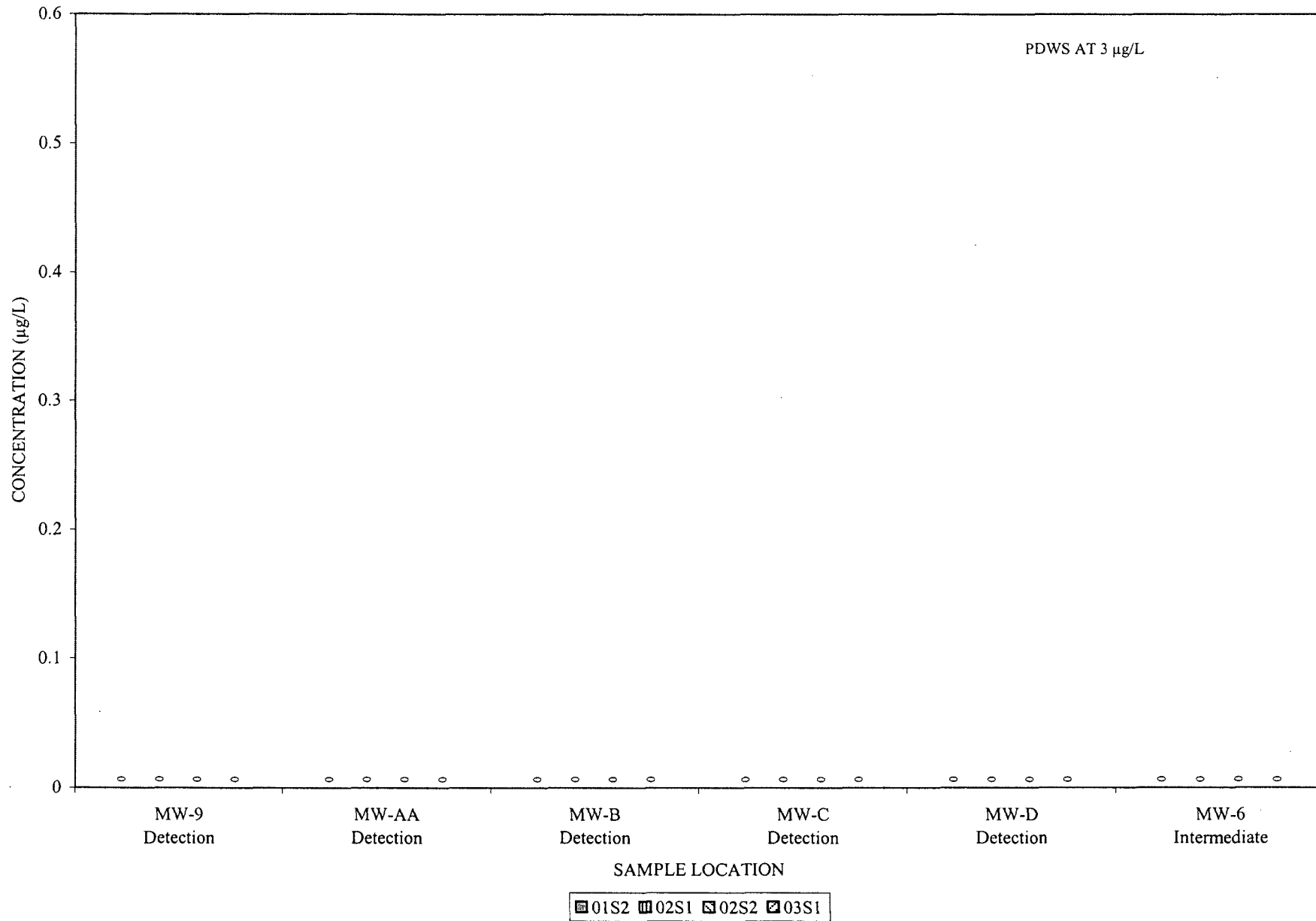
TRICHLOROETHENE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

01S2 02S1 02S2 03S1

TRICHLOROETHENE
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH

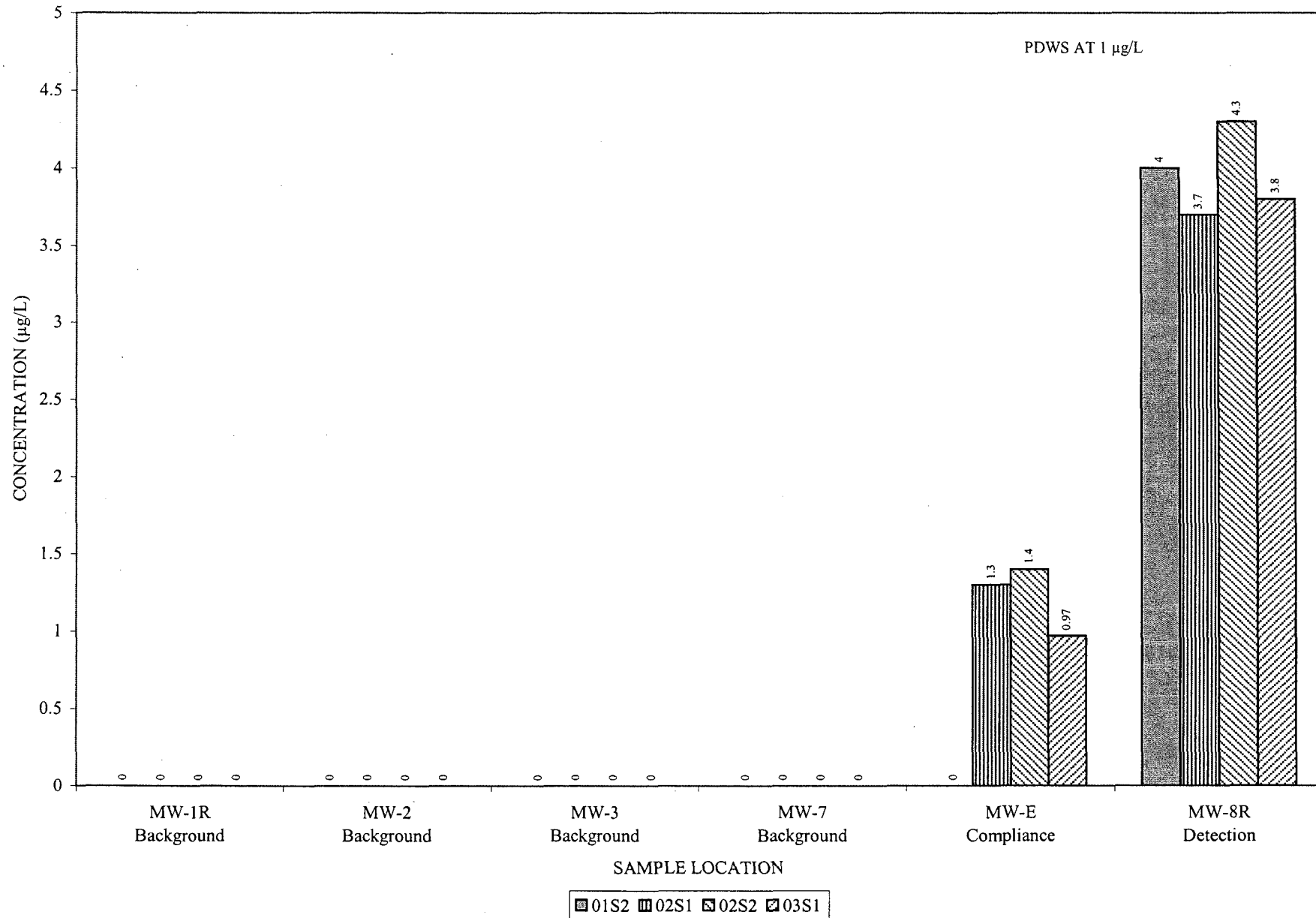


0 = BELOW LABORATORY DETECTION LIMIT

VINYL CHLORIDE

CITRUS COUNTY CENTRAL LANDFILL

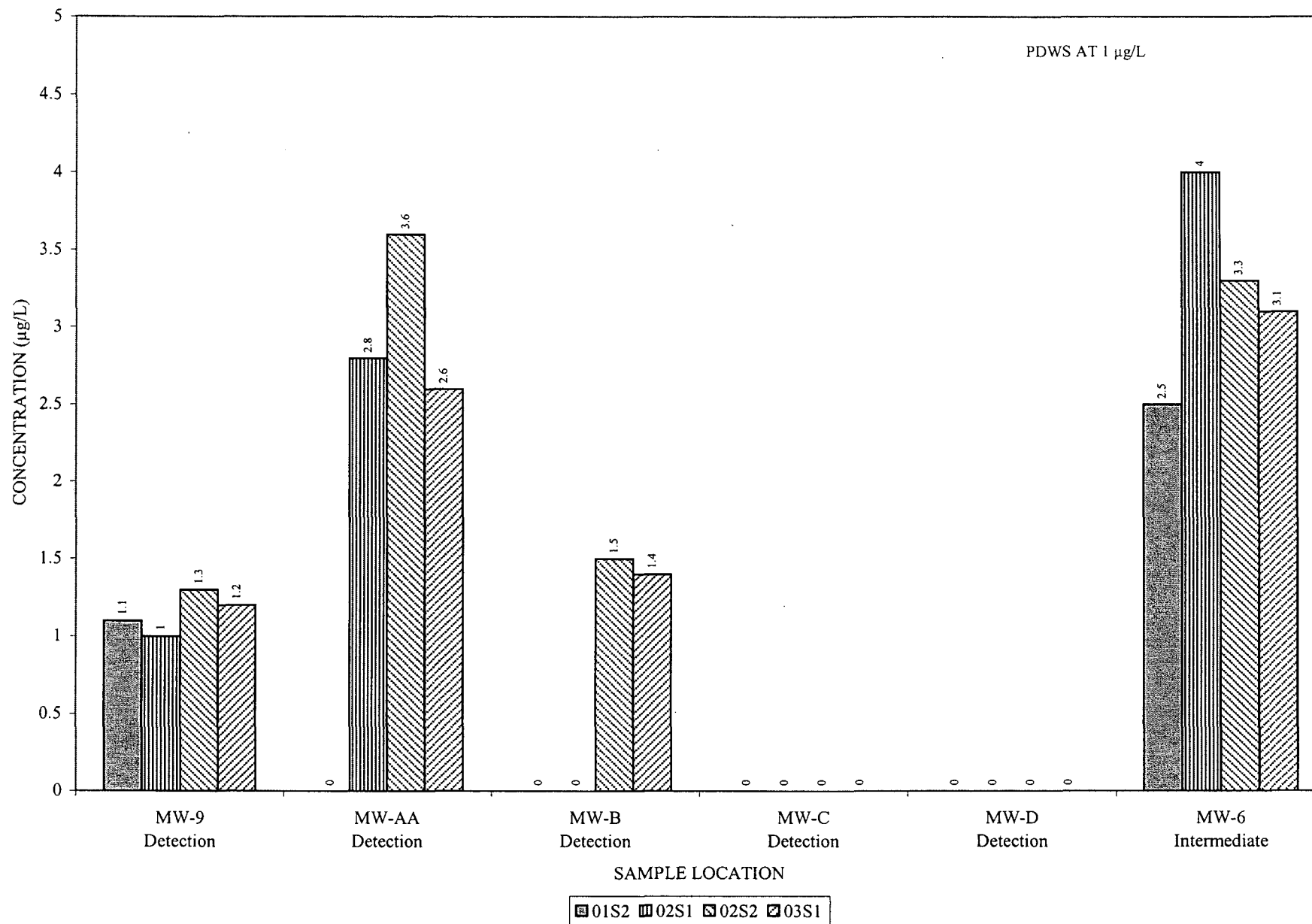
GROUNDWATER CHEMISTRY GRAPH



VINYL CHLORIDE

CITRUS COUNTY CENTRAL LANDFILL

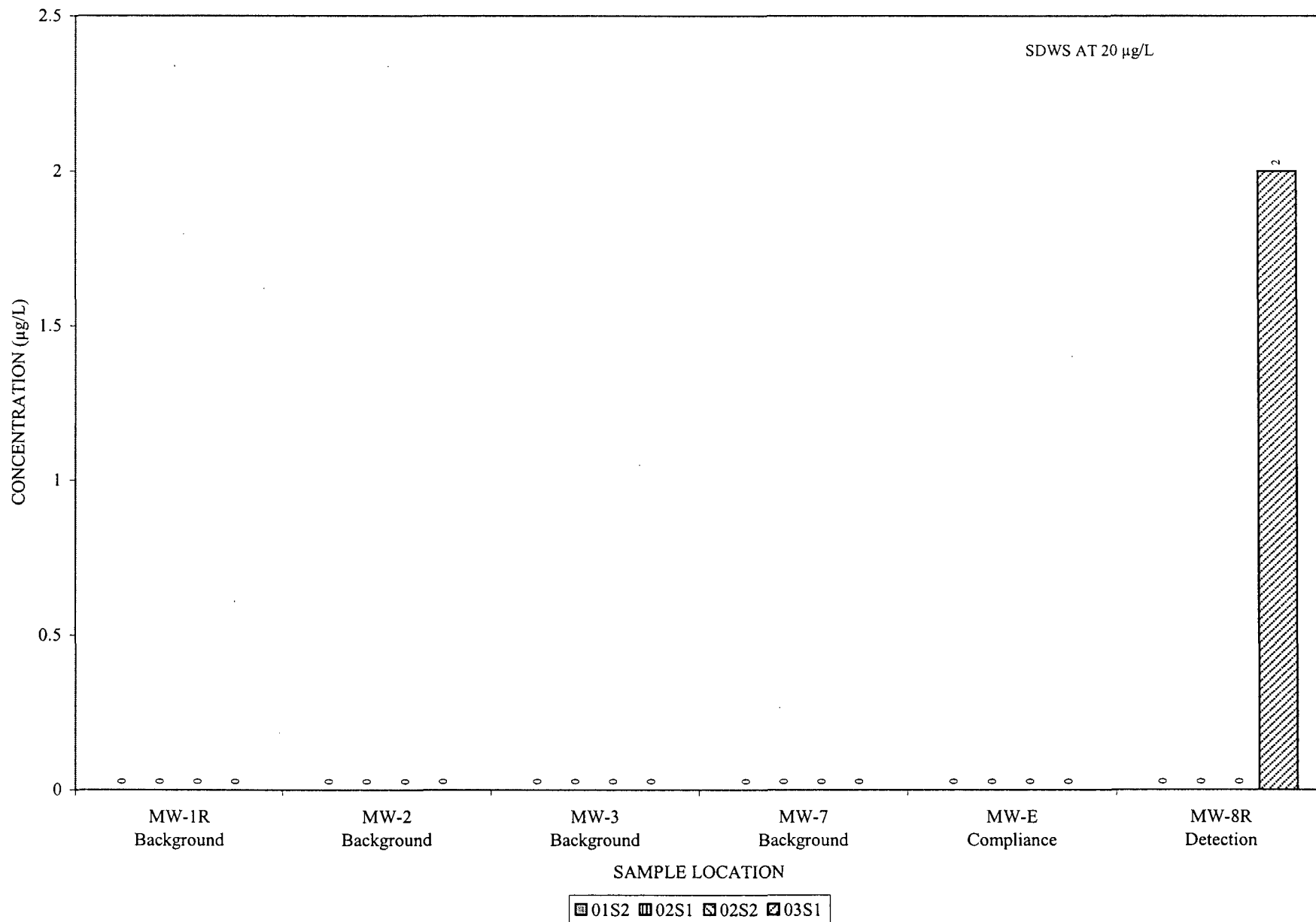
GROUNDWATER CHEMISTRY GRAPH



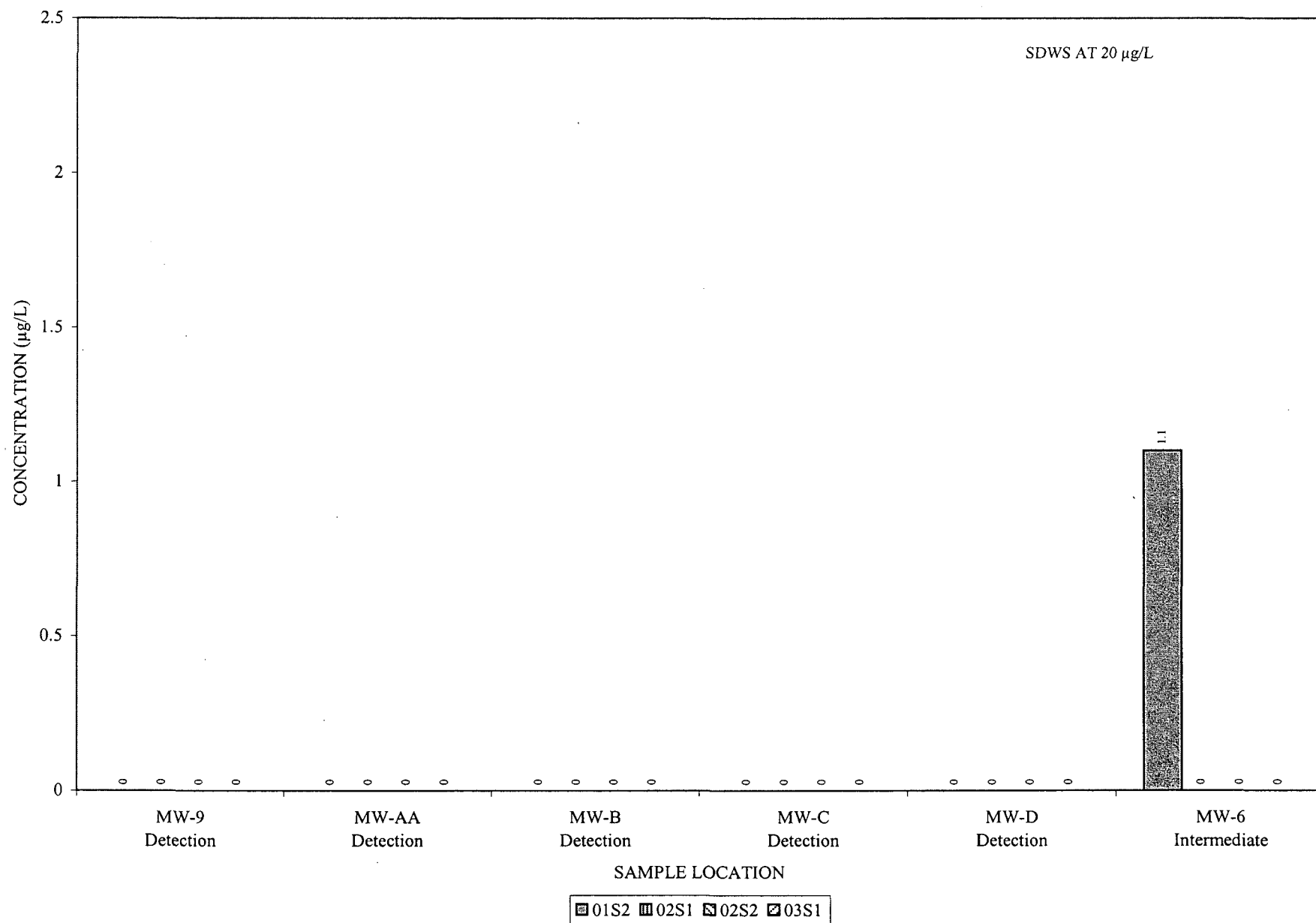
XYLENES

CITRUS COUNTY CENTRAL LANDFILL

GROUNDWATER CHEMISTRY GRAPH



XYLENES
CITRUS COUNTY CENTRAL LANDFILL
GROUNDWATER CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

ATTACHMENT 5
HISTORICAL DATA SUMMARY

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
OCTOBER 2001 THROUGH JANUARY 2003

PARAMETER		CONDUC- TIVITY (FIELD)	DISSOLVED OXYGEN (FIELD)	pH (FIELD)	TEMPER- ATURE (FIELD)	TURBIDITY (FIELD)	TURBIDITY, FILTERED	AMMONIA NITROGEN	BICARB- ONATE ALKALINITY AS CaCO3	CHLORIDE	NITRATE NITROGEN	PERCENT SOLIDS	TOTAL DISSOLVED SOLIDS	ARSENIC	ARSENIC: FILTERED
STANDARD UNITS		(1) UMHOS/CM	(1) ppm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) NTU	- NTU	(1) mg/L	(1) mg/L	250 mg/L** mg/L	10 mg/L* mg/L	(1) %	500 mg/L** mg/L	50 µg/L* µg/L	50 µg/L* µg/L
Background															
MW-1R	10/11/01	108	4.2	5.73	27.4	4.81	-	<0.02	-	3.3	<0.05	-	76	<10	-
MW-1R	01/29/02	95.6	4.6	5.82	26.0	2.19	-	<0.02	-	10	0.36	-	44	<10	-
MW-1R	08/08/02	96.2	2.2	5.58	26.3	2.24	-	<0.02	-	8.8	<0.05	-	64	<10	-
MW-1R	01/23/03	76	7.61	5.19	20.3	3.95	-	<0.2	-	<20	<0.1	-	71	<10	-
MW-2	10/09/01	20.9	3.9	5.54	23.7	0.67	-	0.22	-	<1.0	0.15	-	16	<10	-
MW-2	01/29/02	20.8	6.6	5.60	21.8	1.79	-	<0.02	-	3.4	0.23	-	<2	<10	-
MW-2	08/08/02	49.2	2.18	6.11	27.2	1.2	-	0.1	-	4.2	<0.05	-	34	<10	-
MW-2	01/21/03	19	3.58	5.11	22.4	1.40	-	<0.2	-	<20	<0.1	-	15	<10	-
MW-3	10/09/01	37	5.7	5.46	24.0	1.26	-	<0.02	-	<1.0	0.51	-	24	<10	-
MW-3	01/29/02	34.6	6.6	5.57	22.4	1.67	-	<0.02	-	5	0.42	-	<2	<10	-
MW-3	08/08/02	38	5.6	5.28	24.1	2.12	-	0.037	-	11	0.15	-	38	<10	-
MW-3	01/23/03	35	6.64	5.19	17.7	2.87	-	<0.2	-	<20	<0.1	-	34	<10	-
MW-7	10/09/01	325	5.4	6.73	27.0	4.67	-	<0.02	-	4.4	<0.05	-	210	<10	-
MW-7	01/29/02	155.4	6.0	6.48	22.4	40.3	-	<0.02	-	14	2.4	-	110	<10	-
MW-7	08/08/02	260	3.61	6.42	28.0	39.8	0.29	<0.02	-	12	0.27	-	210	-	<10
MW-7	01/21/03	282	3.27	5.85	22.6	63.9	-	<0.2	-	<20	0.29	-	272	-	<10
Compliance															
MW-E	10/02/01	644	3.7	6.66	25.8	0.8	-	1	-	2.3	<0.05	-	300	<10	-
MW-E	01/28/02	627	5.0	6.79	24.2	102.1	-	0.86	-	7.1	0.19	-	350	<10	-
MW-E	06/12/02	680	1.6	6.70	26.4	1.79	-	0.82	-	5.7	<0.05	-	360	<10	-
MW-E	08/08/02	678	2.83	6.62	25.8	124	0.41	0.58	-	3.5	<0.05	-	260	-	<10
MW-E	01/20/03	658	0.56	6.33	24.6	0.52	-	1.3	-	<20	<0.1	-	378	<10	-
Detection															
MW-8R	10/02/01	152	3.4	5.35	24.7	3.9	-	1.6	-	2.8	<0.05	-	84	<10	-
MW-8R	01/28/02	100.2	6.2	4.80	25.6	1.79	-	1.9	-	11	0.2	-	46	<10	-
MW-8R	08/07/02	122	3.15	5.18	25.7	1.79	-	2	-	10	<0.05	-	50	<10	-
MW-8R	01/20/03	94	0.72	4.70	22.9	0.85	-	1.2	-	<20	<0.1	-	47	<10	-
MW-9	10/02/01	690	3.5	6.76	26.0	2.55	-	1.7	-	4.4	<0.05	-	370	<10	-
MW-9	01/28/02	655	7.8	6.49	26.9	2.92	-	2.5	-	13	0.19	-	350	<10	-
MW-9	08/08/02	604	2.36	6.69	28.0	81.8	0.29	2.6	-	11	0.28	-	350	-	<10
MW-9	01/21/03	657	0.83	6.35	25.5	0.60	-	2.2	-	<20	<0.1	-	353	<10	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
OCTOBER 2001 THROUGH JANUARY 2003

PARAMETER		CONDUCTIVITY (FIELD)	DISSOLVED OXYGEN (FIELD)	pH (FIELD)	TEMPERATURE (FIELD)	TURBIDITY (FIELD)	TURBIDITY, FILTERED	AMMONIA NITROGEN	BICARBONATE ALKALINITY AS CaCO3	CHLORIDE	NITRATE NITROGEN	PERCENT SOLIDS	TOTAL DISSOLVED SOLIDS	ARSENIC	ARSENIC: FILTERED
STANDARD UNITS		(1) UMHOS/CM	(1) ppm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) NTU	- NTU	(1) mg/L	(1) mg/L	250 mg/L** mg/L	10 mg/L* mg/L	(1) %	500 mg/L** mg/L	50 µg/L* µg/L	50 µg/L* µg/L
MW-AA	10/02/01	6.9	5.3	6.21	25.6	4.76	-	0.5	-	<1	<0.05	-	350	<10	-
MW-AA	01/28/02	367	8.1	6.30	24.8	5.21	-	0.46	-	6.1	0.21	-	400	<10	-
MW-AA	06/12/02	690	1.7	6.2	27.9	4.86	-	0.69	-	4.1	0.11	-	410	<10	-
MW-AA	08/08/02	649	4.54	6.29	28.7	11.1	0.2	0.4	-	1.9	<0.05	-	280	-	<10
MW-AA	01/20/03	749	0.66	6.03	24.4	2.29	-	1.7	-	<20	<0.1	-	434	<10	-
MW-B	10/02/01	62	6.2	4.86	25.6	10.86	0.83	<0.02	-	<1	<0.05	-	36	-	<10
MW-B	01/29/02	64.8	7.4	4.41	22.9	3.89	-	<0.02	-	8.9	1.3	-	28	<10	-
MW-B	08/08/02	68	1.27	4.67	26.1	1.18	-	0.17	-	9	0.75	-	26	<10	-
MW-B	01/22/03	57	0.66	4.04	24.2	2.39	-	<0.2	-	<20	0.29	-	42	<10	-
MW-C	10/09/01	220	5.8	7.67	23.9	5.17	-	0.064	-	<1	0.093	-	120	<10	-
MW-C	01/28/02	215	5.9	7.91	26.2	3.93	-	<0.02	-	6.7	0.25	-	120	<10	-
MW-C	08/07/02	230	3.5	7.80	27.2	8.08	0.31	<0.02	-	4.9	<0.05	-	140	-	<10
MW-C	01/23/03	225	3.00	7.35	23.3	4.21	-	<0.2	-	<20	<0.1	-	131	<10	-
MW-D	10/11/01	469	3.4	6.89	26.6	35.1	35.1	0.25	-	1.7	0.14	-	290	-	<10
MW-D	01/28/02	534	4.2	6.82	24.4	7.40	1.02	0.55	-	11	0.2	-	290	-	11
MW-D	06/12/02	460	2.5	6.9	26.6	26.6	0.98	0.48	-	7.8	0.88	-	270	-	<10
MW-D	08/07/02	382	1.51	6.98	27.9	42.7	0.27	0.32	-	7.5	<0.05	-	260	-	<10
MW-D	01/23/03	510	1.59	6.56	23.7	4.06	-	0.39	-	<20	<0.1	-	304	<10	-
Intermediate															
MW-6	10/02/01	810	1.9	4.43	26.7	2.76	-	1.9	-	150	13	-	400	<10	-
MW-6	01/22/02	799	6.6	4.40	23.5	1.95	-	1.8	-	160	19	-	450	<10	-
MW-6	08/08/02	664	2.59	4.3	26.1	4.72	-	2	-	260	22	-	450	<10	-
MW-6	01/22/03	822	0.59	4.04	24.4	1.26	-	1.9	-	178	17.2	-	451	<10	-
Leachate															
Leachate Effluent	10/24/01	-	-	-	-	-	-	-	-	1100	-	-	2300	0.012	-
Leachate Effluent	01/22/02	-	-	-	-	-	-	-	-	370	-	-	950	-	-
Leachate Effluent	04/17/02	-	-	-	-	-	-	-	-	1000	-	-	2100	-	-
Leachate Effluent	07/10/02	-	-	-	-	-	-	-	-	1100	-	-	2100	29	-
Leachate Effluent	10/16/02	-	-	-	-	-	-	-	-	1040	-	-	1820	-	-
Leachate Effluent	01/22/03	-	-	-	-	-	-	-	-	924	-	-	2210	-	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
OCTOBER 2001 THROUGH JANUARY 2003

PARAMETER		CONDUCTIVITY (FIELD)	DISSOLVED OXYGEN (FIELD)	pH (FIELD)	TEMPERATURE (FIELD)	TURBIDITY (FIELD)	TURBIDITY, FILTERED	AMMONIA NITROGEN	BICARBONATE ALKALINITY AS CaCO3	CHLORIDE	NITRATE NITROGEN	PERCENT SOLIDS	TOTAL DISSOLVED SOLIDS	ARSENIC	ARSENIC: FILTERED
STANDARD UNITS		(1) UMHOS/CM	(1) ppm	6.5-8.5 S.U.** S.U.	(1) deg C	(1) NTU	- NTU	(1) mg/L	(1) mg/L	250 mg/L** mg/L	10 mg/L* mg/L	(1) %	500 mg/L** mg/L	50 µg/L* µg/L	50 µg/L* µg/L
Leachate Influent	07/10/02	6200	7.1	7.3	-	-	-	400	2000	1100	0.94	-	2500	33	-
Sludge															
SLUDGE	09/04/02	-	-	6.3	-	-	-	-	-	-	-	1.5	-	<20	-

LEGEND	
* =Primary Drinking Water Standard	I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)
** =Secondary Drinking Water Standard	J = Estimated value
*** =Florida Groundwater Guidance Concentration	B = Analyte found in associated method blank
(1) =No Standard	Q = Estimated value; analyte analyzed after acceptable holding time
- =Not Analyzed	

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
OCTOBER 2001 THROUGH JANUARY 2003

PARAMETER		BARIUM	BARIUM: FILTERED	COBALT	COBALT: FILTERED	COPPER	IRON	IRON: FILTERED	LEAD	NICKEL	SODIUM	SODIUM: FILTERED	THALLIUM	ZINC	ZINC: FILTERED
STANDARD UNITS		2000 µg/L* µg/L	2000 µg/L* µg/L	420 µg/L*** µg/L	420 µg/L*** µg/L	1000 µg/L** µg/L	300 µg/L** µg/L	300 µg/L** µg/L	15 µg/L* µg/L	100 µg/L* µg/L	160000 µg/L* µg/L	160000 µg/L µg/L	2 µg/L* µg/L	5000 µg/L** µg/L	5000 µg/L** µg/L
Background															
MW-1R	10/11/01	41	-	13	-	<10	3100	-	81	<10	6200	-	<2	<50	-
MW-1R	01/29/02	13	-	<10	-	<10	220	-	12	<10	10000	-	<2	<50	-
MW-1R	08/08/02	<10	-	<10	-	<10	570	-	<5	<10	10000	-	<2	<50	-
MW-1R	01/23/03	<200	-	<50	-	<25	325	-	<5	<40	20600	-	<1	<20	-
MW-2	10/09/01	12	-	<10	-	<10	130	-	5.2	<10	1700	-	<2	<50	-
MW-2	01/29/02	<10	-	<10	-	<10	<100	-	<5	<10	10000	-	<2	<50	-
MW-2	08/08/02	<10	-	<10	-	16	340	-	<5	<10	10000	-	<2	<50	-
MW-2	01/21/03	<200	-	<50	-	<25	<300	-	6	<40	<5000	-	<1	<20	-
MW-3	10/09/01	18	-	<10	-	<10	13	-	15	<10	2000	-	<2	60	-
MW-3	01/29/02	10	-	<10	-	12	<100	-	41	<10	10000	-	50	<50	-
MW-3	08/08/02	12	-	<10	-	28	210	-	20	<10	10000	-	<2	110	-
MW-3	01/23/03	<200	-	<50	-	<25	694	-	<5	<40	<5000	-	<1	<20	-
MW-7	10/09/01	150	-	<10	-	<10	1100	-	11	<10	57000	-	<2	<50	-
MW-7	01/29/02	<10	-	<10	-	<10	100	-	<5	<10	37000	-	<2	<50	-
MW-7	08/08/02	-	110	-	<10	-	-	<100	-	-	-	45000	-	-	66
MW-7	01/21/03	-	<200	-	<50	-	-	<300	-	-	-	54600	-	-	<20
Compliance															
MW-E	10/02/01	94	-	<10	-	<10	4700	-	<5	<10	4000	-	<2	<50	-
MW-E	01/28/02	82	-	<10	-	<10	11000	-	<5	<10	10000	-	<2	<50	-
MW-E	06/12/02	92	-	<10	-	<10	1200	-	<5	<10	10000	-	<2	<50	-
MW-E	08/08/02	-	83	-	<10	-	-	320	-	-	-	10000	-	-	<50
MW-E	01/20/03	<200	-	<50	-	<25	10500	-	11.1	<40	<5000	-	<1	<20	-
Detection															
MW-8R	10/02/01	66	-	<10	-	<10	3700	-	32	<10	4600	-	<2	<50	-
MW-8R	01/28/02	16	-	<10	-	<10	2400	-	<5	<10	10000	-	<2	<50	-
MW-8R	08/07/02	<10	-	<10	-	<10	2700	-	<5	<10	10000	-	<2	<50	-
MW-8R	01/20/03	<200	-	<50	-	<25	2770	-	<5	<40	<5000	-	<1	<20	-
MW-9	10/02/01	110	-	<10	-	<10	7600	-	5800	<10	1000	-	<2	<50	-
MW-9	01/28/02	89	-	<10	-	<10	9100	-	<5	<10	10000	-	<2	58	-
MW-9	08/08/02	-	80	-	<10	-	-	<100	-	-	-	10000	-	-	<50
MW-9	01/21/03	<200	-	<50	-	<25	8970	-	<5	<40	5730	-	<1	<20	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
OCTOBER 2001 THROUGH JANUARY 2003

PARAMETER		BARIUM	BARIUM: FILTERED	COBALT	COBALT: FILTERED	COPPER	IRON	IRON: FILTERED	LEAD	NICKEL	SODIUM	SODIUM: FILTERED	THALLIUM	ZINC	ZINC: FILTERED
STANDARD UNITS		2000 µg/L* µg/L	2000 µg/L* µg/L	420 µg/L*** µg/L	420 µg/L*** µg/L	1000 µg/L** µg/L	300 µg/L** µg/L	300 µg/L** µg/L	15 µg/L* µg/L	100 µg/L* µg/L	160000 µg/L* µg/L	160000 µg/L µg/L	2 µg/L* µg/L	5000 µg/L** µg/L	5000 µg/L** µg/L
MW-AA	10/02/01	39	-	21	-	<10	7500	-	<5	24	5900	-	<2	<50	-
MW-AA	01/28/02	45	-	<10	-	<10	7500	-	<5	<10	10000	-	<2	<50	-
MW-AA	06/12/02	41	-	20	-	<10	8400	-	<5	17	10000	-	<2	<50	-
MW-AA	08/08/02	-	22	-	14	-	-	4500	-	-	-	10000	-	-	<50
MW-AA	01/20/03	<200	-	<50	-	<25	9400	-	<5	<40	<5000	-	<1	<20	-
MW-B	10/02/01	-	26	-	<10	-	-	<100	-	-	-	4500	-	-	<50
MW-B	01/29/02	12	-	<10	-	<10	<100	-	<5	<10	10000	-	<2	<50	-
MW-B	08/08/02	<10	-	<10	-	21	<100	-	<5	<10	10000	-	<2	67	-
MW-B	01/22/03	<200	-	<50	-	<25	<300	-	<5	<40	<5000	-	<1	<20	-
MW-C	10/09/01	23	-	<10	-	<10	<100	-	<5	<10	2500	-	<2	<50	-
MW-C	01/28/02	<10	-	<10	-	<10	<100	-	<5	<10	10000	-	<2	<50	-
MW-C	08/07/02	-	<10	-	<10	-	-	<100	-	-	-	10000	-	-	<50
MW-C	01/23/03	<200	-	<50	-	<25	4900	-	<5	<40	<5000	-	<1	65.2	-
MW-D	10/11/01	-	93	-	<10	-	-	1000	-	-	-	4200	-	-	<50
MW-D	01/28/02	-	100	-	<10	-	-	5300	-	-	-	10000	-	-	<50
MW-D	06/12/02	-	83	-	20	-	-	2500	-	-	-	10000	-	-	<50
MW-D	08/07/02	-	63	-	<10	-	-	<100	-	-	-	10000	-	-	<50
MW-D	01/23/03	<200	-	<50	-	<25	417	-	5.8	<40	<5000	-	<1	27.4	-
Intermediate															
MW-6	10/02/01	63	-	<10	-	<10	290	-	76	<10	110000	-	<2	<50	-
MW-6	01/22/02	56	-	<10	-	16	1300	-	40	24	110000	-	<50	<50	-
MW-6	08/08/02	47	-	<10	-	<10	240	-	<5	11	130000	-	<2	<50	-
MW-6	01/22/03	<200	-	<50	-	<25	<300	-	16.2	<40	119000	-	<1	22.5	-
Leachate															
Leachate Effluent	10/24/01	0.069	-	-	-	-	<100	-	<5	-	680	-	-	-	-
Leachate Effluent	01/22/02	-	-	-	-	-	-	-	-	-	230000	-	-	-	-
Leachate Effluent	04/17/02	-	-	-	-	-	-	-	-	-	570000	-	-	-	-
Leachate Effluent	07/10/02	79	-	<10	-	<10	<100	-	10	45	710	-	<2	50	-
Leachate Effluent	10/16/02	-	-	-	-	-	-	-	-	-	581000	-	-	-	-
Leachate Effluent	01/22/03	-	-	-	-	-	-	-	-	-	497000	-	-	-	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
 CITRUS COUNTY CENTRAL LANDFILL
 OCTOBER 2001 THROUGH JANUARY 2003

PARAMETER		BARIUM	BARIUM: FILTERED	COBALT	COBALT: FILTERED	COPPER	IRON	IRON: FILTERED	LEAD	NICKEL	SODIUM	SODIUM: FILTERED	THALLIUM	ZINC	ZINC: FILTERED
STANDARD UNITS		2000 µg/L*	2000 µg/L*	420 µg/L***	420 µg/L***	1000 µg/L**	300 µg/L**	300 µg/L**	15 µg/L*	100 µg/L*	160000 µg/L*	160000 µg/L	2 µg/L*	5000 µg/L**	5000 µg/L**
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Leachate Influent	07/10/02	40	-	<10	-	<10	5000	-	<10	47	810000	-	<2	<50	-
Sludge															
SLUDGE	09/04/02	<2500	-	-	-	-	-	-	<100	-	-	-	-	-	-

LEGEND

* =Primary Drinking Water Standard	I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)
** =Secondary Drinking Water Standard	J = Estimated value
*** =Florida Groundwater Guidance Concentration	B = Analyte found in associated method blank
(1) =No Standard	Q = Estimated value; analyte analyzed after acceptable holding time
- =Not Analyzed	

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
OCTOBER 2001 THROUGH JANUARY 2003

PARAMETER		1,1-DICHLORO-ETHANE	1,4-DICHLORO-BENZENE	ACETONE	BENZENE	BROMO-DICHLORO-METHANE	BROMO-FORM	CHLORO-BENZENE	CHLORO-FORM	CIS-1,2-DICHLORO-ETHYLENE	DIBROMO-CHLORO-METHANE	TOLUENE	TOTAL TRIHALO-METHANES	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD UNITS		70 µg/L*** µg/L	75 µg/L* µg/L	700 µg/L*** µg/L	1 µg/L* µg/L	0.6 µg/L*** µg/L	4 µg/L*** µg/L	100 µg/L* µg/L	5.7 µg/L*** µg/L	70 µg/L* µg/L	0.4 µg/L*** µg/L	40 µg/L** µg/L	(1) µg/L	3 µg/L* µg/L	1 µg/L* µg/L
Background															
MW-1R	10/11/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-1R	01/29/02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-1R	08/08/02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-1R	01/23/03	<2	<2	<50	<1	<2	<2	<2	<2	<2	<2	<2	-	<2	<1
MW-2	10/09/01	<1	<1	<1	<1	<1	<1	<1	2.8	<1	<1	<1	-	<1	<1
MW-2	01/29/02	<1	<1	<1	<1	<1	<1	<1	2.6	<1	<1	<1	-	<1	<1
MW-2	08/08/02	<1	<1	<1	<1	<1	<1	<1	2.0	<1	<1	<1	-	<1	<1
MW-2	01/21/03	<2	<2	<50	<1	<2	<2	<2	3.3	<2	<2	<2	-	<2	<1
MW-3	10/09/01	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<1	-	<1	<1
MW-3	01/29/02	<1	<1	<1	<1	<1	<1	<1	1.1	<1	<1	<1	-	<1	<1
MW-3	08/08/02	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<1	<1	-	<1	<1
MW-3	01/23/03	<2	<2	<50	<1	<2	<2	<2	1.1J	<2	<2	<2	-	<2	<1
MW-7	10/09/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-7	01/29/02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-7	08/08/02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-7	01/21/03	<2	<2	<50	<1	<2	<2	<2	<2	<2	<2	<2	-	<2	<1
Compliance															
MW-E	10/02/01	<1	2.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-E	01/28/02	<1	3.4	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	1.3
MW-E	06/12/02	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<1	-	<1	1.8
MW-E	08/08/02	<1	3.3	<1	<1	<1	<1	<1	<1	1.1	<1	<1	-	<1	1.4
MW-E	01/20/03	<2	2.9	<50	<1	<2	<2	<2	<2	0.85J	<2	<2	-	<2	0.97J
Detection															
MW-8R	10/02/01	<1	8.8	<1	3.8	<1	<1	6.8	<1	6.4	<1	<1	-	<1	4
MW-8R	01/28/02	<1	13	<1	4.3	<1	<1	9	<1	5.8	<1	<1	-	<1	3.7
MW-8R	08/07/02	<1	12	<1	4.9	<1	<1	9.7	<1	7	<1	<1	-	<1	4.3
MW-8R	01/20/03	0.79J	14.3	<50	5.5	<2	<2	10.1	<2	7.4	<2	<2	-	0.57J	3.8
MW-9	10/02/01	<1	3.3	<1	<5	<1	<1	1.3	<1	<1	<1	<1	-	<1	1.1
MW-9	01/28/02	<1	4.2	<1	<1	<1	<1	1.7	<1	<1	<1	<1	-	<1	1
MW-9	08/08/02	<1	4.4	<1	<1	<1	<1	1.9	<1	<1	<1	<1	-	<1	1.3
MW-9	01/21/03	<2	4.1	<50	0.83J	<2	<2	1.7J	<2	0.72J	<2	<2	-	<2	1.2

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
OCTOBER 2001 THROUGH JANUARY 2003

PARAMETER		1,1-DICHLORO-ETHANE	1,4-DICHLORO-BENZENE	ACETONE	BENZENE	BROMO-DICHLORO-METHANE	BROMO-FORM	CHLORO-BENZENE	CHLORO-FORM	CIS-1,2-DICHLORO-ETHYLENE	DIBROMO-CHLORO-METHANE	TOLUENE	TOTAL TRIHALO-METHANES	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD UNITS		70 µg/L***	75 µg/L*	700 µg/L***	1 µg/L*	0.6 µg/L***	4 µg/L***	100 µg/L*	5.7 µg/L***	70 µg/L*	0.4 µg/L***	40 µg/L**	(1) µg/L	3 µg/L*	1 µg/L*
MW-AA	10/02/01	<1	8.4	<1	1.2	<1	<1	1.2	<1	2.2	<1	<1	-	<1	<1
MW-AA	01/28/02	<1	12	<1	1.2	<1	<1	1.5	<1	2.1	<1	<1	-	<1	2.8
MW-AA	06/12/02	<1	<1	<1	1.4	<1	<1	1.5	<1	2.9	<1	<1	-	<1	4.4
MW-AA	08/08/02	<1	11	<1	1.4	<1	<1	1.6	<1	2.3	<1	<1	-	<1	3.6
MW-AA	01/20/03	<2	12.2	<50	1.5	<2	<2	1.5J	<2	2.7	<2	<2	-	<2	2.6
MW-B	10/02/01	<1	<1	<1	<5	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-B	01/29/02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-B	08/08/02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	1.5
MW-B	01/22/03	0.62J	<2	6.1J	0.89J	<2	<2	1J	<2	0.65J	<2	<2	-	<2	1.4
MW-C	10/09/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-C	01/28/02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-C	08/07/02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-C	01/23/03	<2	<2	<50	<1	<2	<2	<2	<2	<2	<2	<2	-	<2	<1
MW-D	10/11/01	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-D	01/28/02	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-D	06/12/02	<1	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-D	08/07/02	<1	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	-	<1	<1
MW-D	01/23/03	<2	1.6J	<50	<1	<2	<2	<2	<2	0.62J	<2	<2	-	<2	<1
Intermediate															
MW-6	10/02/01	<1	<1	<1	<5	3.4	<1	<1	4.0	1.2	3	<1	-	<1	2.5
MW-6	01/22/02	<1	<1	<10	1.4	3.9	<1	<1	6.1	2.3	3.2	<1	-	<1	4
MW-6	08/08/02	<1	<1	<1	1.1	4	1.2	<1	5.2	1.4	3.4	<1	-	<1	3.3
MW-6	01/22/03	<2	<2	5.3J	1.5	2.5	<2	<2	3.2	1.5J	2.4	<2	8.1	<2	3.1
Leachate															
Leachate Effluent	10/24/01	-	-	-	<5	-	-	-	-	-	-	<5	128	-	-
Leachate Effluent	01/22/02	-	-	-	<1	86	28	-	43	-	81	<1	238	-	-
Leachate Effluent	04/17/02	-	-	-	<1	-	-	-	-	-	-	<1	-	-	-
Leachate Effluent	07/10/02	<1	<1	<1	<5	<5	<5	<1	<5	<1	<5	<5	<20	<1	<1
Leachate Effluent	10/16/02	-	-	-	<1	-	-	-	-	-	-	<1	-	-	-
Leachate Effluent	01/22/03	-	-	-	<1	37.8	9.4	-	15.6	-	25	<2	87.8	-	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
OCTOBER 2001 THROUGH JANUARY 2003

PARAMETER		1,1-DICHLORO-ETHANE	1,4-DICHLORO-BENZENE	ACETONE	BENZENE	BROMO-DICHLORO-METHANE	BROMO-FORM	CHLORO-BENZENE	CHLORO-FORM	CIS-1,2-DICHLORO-ETHYLENE	DIBROMO-CHLORO-METHANE	TOLUENE	TOTAL TRIHALO-METHANES	TRICHLORO-ETHENE	VINYL CHLORIDE
STANDARD UNITS		70 µg/L*** µg/L	75 µg/L* µg/L	700 µg/L*** µg/L	1 µg/L* µg/L	0.6 µg/L*** µg/L	4 µg/L*** µg/L	100 µg/L* µg/L	5.7 µg/L*** µg/L	70 µg/L* µg/L	0.4 µg/L*** µg/L	40 µg/L** µg/L	(1) µg/L	3 µg/L* µg/L	1 µg/L* µg/L
Leachate Influent	07/10/02	<1	8.8	<1	1.5	<1	<1	1.5	<1	<1	<1	1	-	<1	1.1
Sludge															
SLUDGE	09/04/02	-	<10	-	<10	-	-	<10	<10	-	-	-	-	<10	<10

LEGEND															
* =Primary Drinking Water Standard					I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)										
** =Secondary Drinking Water Standard					J = Estimated value										
*** =Florida Groundwater Guidance Concentration					B = Analyte found in associated method blank										
(1) =No Standard					Q = Estimated value; analyte analyzed after acceptable holding time										
- =Not Analyzed															

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
OCTOBER 2001 THROUGH JANUARY 2003

PARAMETER	XYLENES	TOTAL VOCS	O-TOLUIDINE
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STANDARD UNITS	20 µg/L** µg/L	(1) µg/L	50 µg/L*** µg/L
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Background

MW-1R	10/11/01	<1	-	-
MW-1R	01/29/02	<1	-	-
MW-1R	08/08/02	<2	-	-
MW-1R	01/23/03	<6	-	-
MW-2	10/09/01	<1	2.8	-
MW-2	01/29/02	<1	2.6	-
MW-2	08/08/02	<2	2	-
MW-2	01/21/03	<6	3.3	-
MW-3	10/09/01	<1	1.1	-
MW-3	01/29/02	<1	1.1	-
MW-3	08/08/02	<2	1.2	-
MW-3	01/23/03	<6	1.1	-
MW-7	10/09/01	<1	-	-
MW-7	01/29/02	<1	-	-
MW-7	08/08/02	<2	-	-
MW-7	01/21/03	<6	-	-

Compliance

MW-E	10/02/01	<1	2.5	-
MW-E	01/28/02	<1	4.7	-
MW-E	06/12/02	<1	3	-
MW-E	08/08/02	<2	5.8	-
MW-E	01/20/03	<6	4.72	-

Detection

MW-8R	10/02/01	<1	29.8	-
MW-8R	01/28/02	<1	35.8	-
MW-8R	08/07/02	<2	37.9	-
MW-8R	01/20/03	2J	44.46	-
MW-9	10/02/01	<1	5.7	-
MW-9	01/28/02	<1	6.9	-
MW-9	08/08/02	<2	7.6	-
MW-9	01/21/03	<6	8.55	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
CITRUS COUNTY CENTRAL LANDFILL
OCTOBER 2001 THROUGH JANUARY 2003

PARAMETER		XYLENES	TOTAL VOCS	O-TOLUIDINE
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STANDARD UNITS		20 µg/L** µg/L	(1) µg/L	50 µg/L*** µg/L
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MW-AA	10/02/01	<1	13	-
MW-AA	01/28/02	<1	19.6	-
MW-AA	06/12/02	<1	10.2	-
MW-AA	08/08/02	<2	19.9	-
MW-AA	01/20/03	<6	20.5	-
MW-B	10/02/01	<1	-	-
MW-B	01/29/02	<1	-	-
MW-B	08/08/02	<2	1.5	-
MW-B	01/22/03	<6	10.66	-
MW-C	10/09/01	<1	-	-
MW-C	01/28/02	<1	-	-
MW-C	08/07/02	<2	-	-
MW-C	01/23/03	<6	-	-
MW-D	10/11/01	<1	-	-
MW-D	01/28/02	<1	-	-
MW-D	06/12/02	<1	1.3	-
MW-D	08/07/02	<2	1.2	-
MW-D	01/23/03	<6	2.22	-

Intermediate

MW-6	10/02/01	1.1	15.2	-
MW-6	01/22/02	<1	20.9	-
MW-6	08/08/02	<2	19.6	-
MW-6	01/22/03	<6	27.6	-

Leachate

Leachate Effluent	10/24/01	<5	128	-
Leachate Effluent	01/22/02	<2	476	-
Leachate Effluent	04/17/02	<2	-	-
Leachate Effluent	07/10/02	<5	-	-
Leachate Effluent	10/16/02	<3	-	-
Leachate Effluent	01/22/03	<6	175.6	-

PARAMETERS AT OR ABOVE THE LABORATORY DETECTION LIMIT
 CITRUS COUNTY CENTRAL LANDFILL
 OCTOBER 2001 THROUGH JANUARY 2003

PARAMETER	XYLENES	TOTAL VOCS	O-TOLUIDINE
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STANDARD UNITS	20 µg/L** µg/L	(1) µg/L	50 µg/L*** µg/L
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Leachate Influent	07/10/02	11	24.9	25
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Sludge

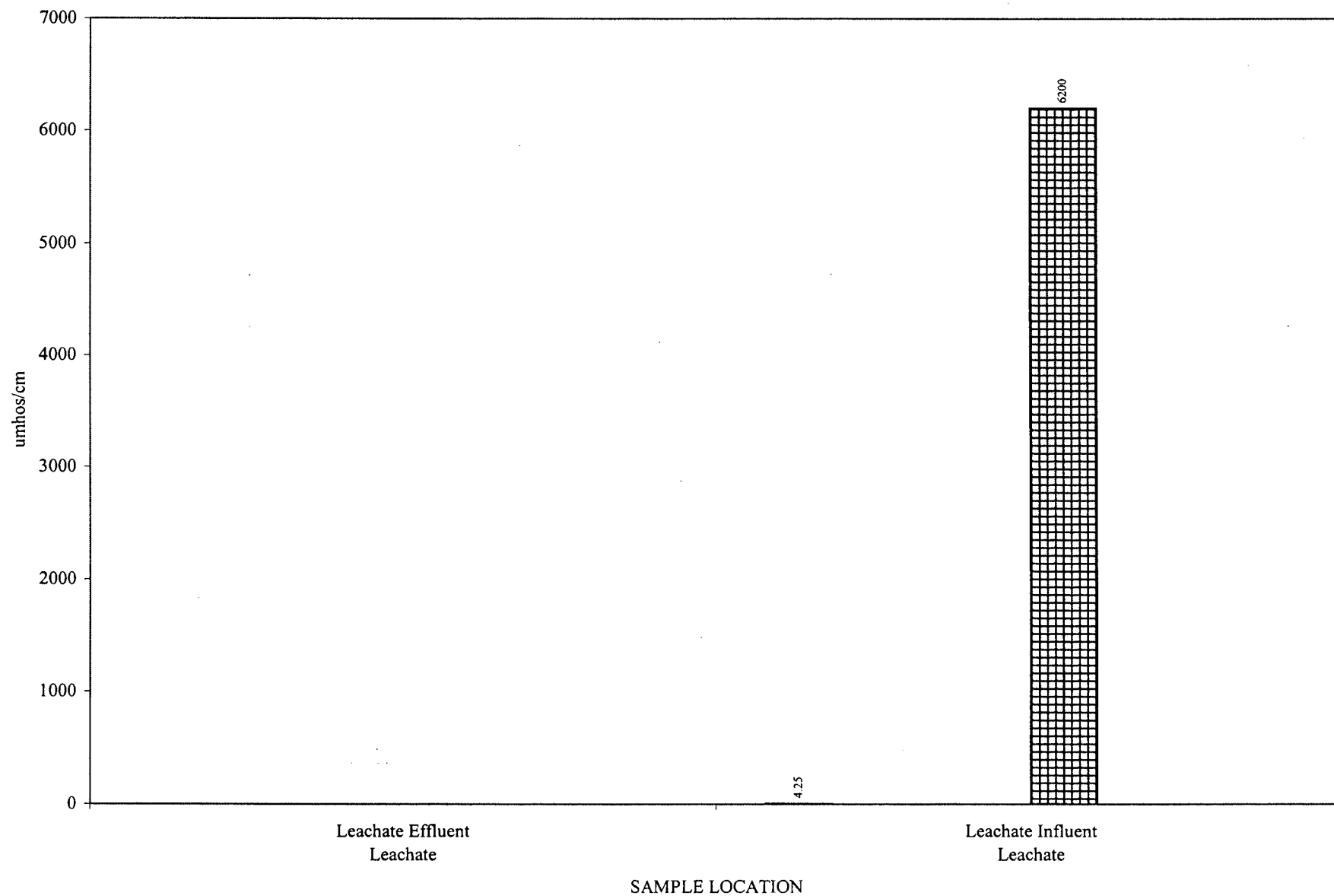
SLUDGE	09/04/02	-	-	-
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LEGEND

* =Primary Drinking Water Standard	I = Value is between the Method Detection Level (MDL) and the Reporting Detection Level (RDL)
** =Secondary Drinking Water Standard	J = Estimated value
*** =Florida Groundwater Guidance Concentration	B = Analyte found in associated method blank
(1) =No Standard	Q = Estimated value; analyte analyzed after acceptable holding time
- =Not Analyzed	

ATTACHMENT 6
LEACHATE GRAPHS

CONDUCTIVITY (FIELD) CITRUS COUNTY CENTRAL LANDFILL LEACHATE CHEMISTRY GRAPH

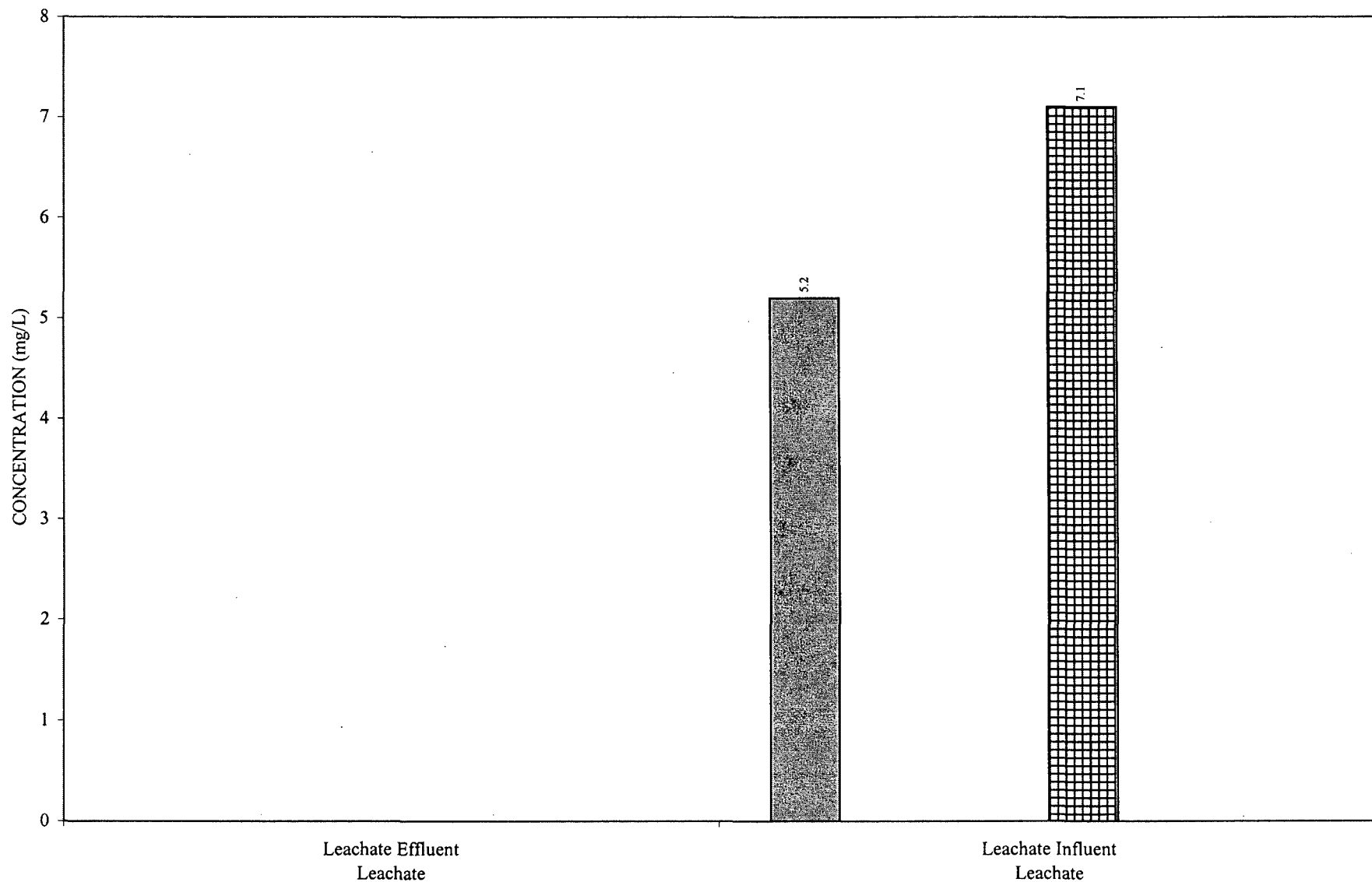


0 = BELOW LABORATORY DETECTION LIMIT

01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:COND

DISSOLVED OXYGEN (FIELD) CITRUS COUNTY CENTRAL LANDFILL LEACHATE CHEMISTRY GRAPH

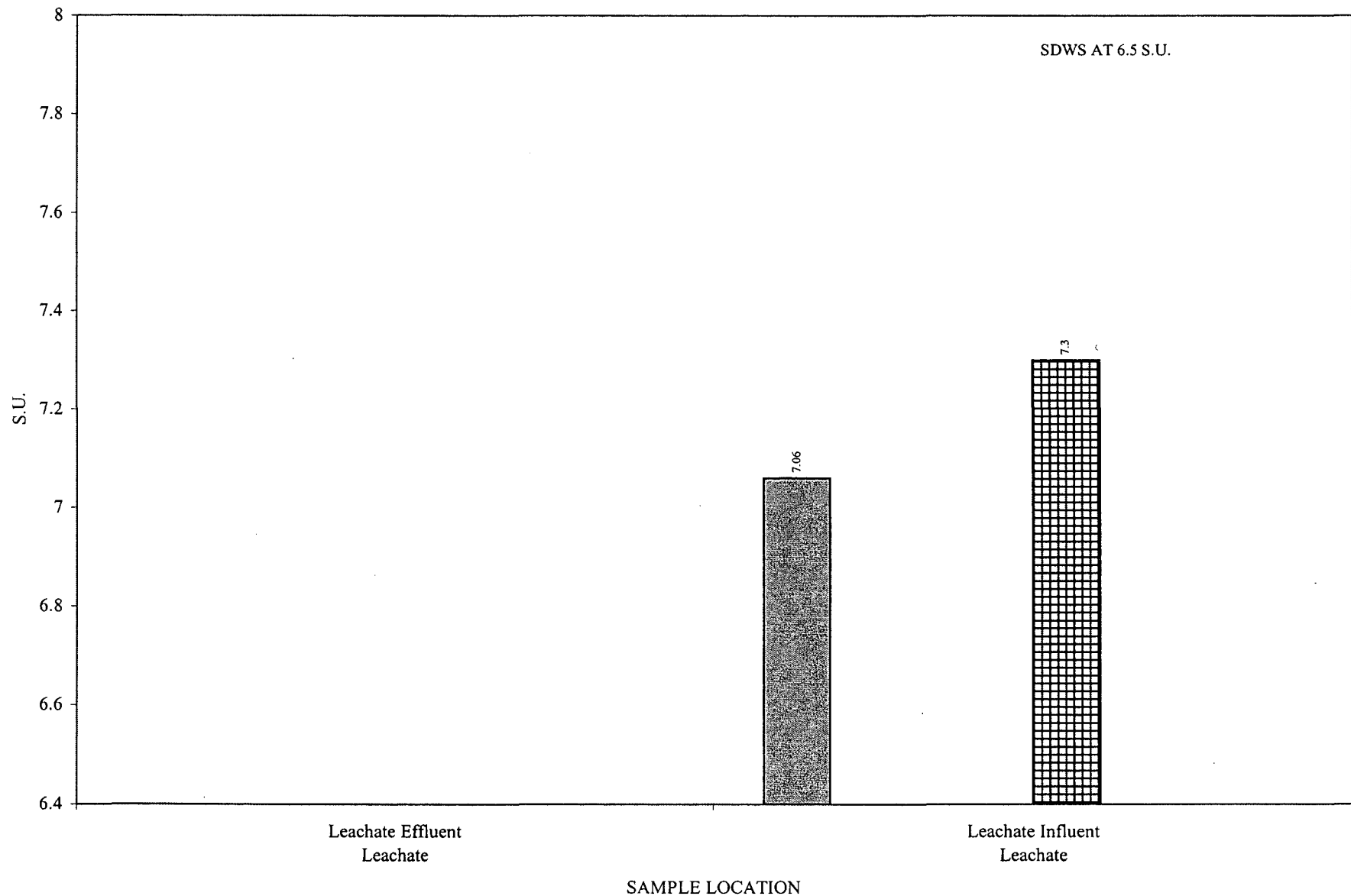


01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

0 = BELOW LABORATORY DETECTION LIMIT

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pH (FIELD)
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE CHEMISTRY GRAPH



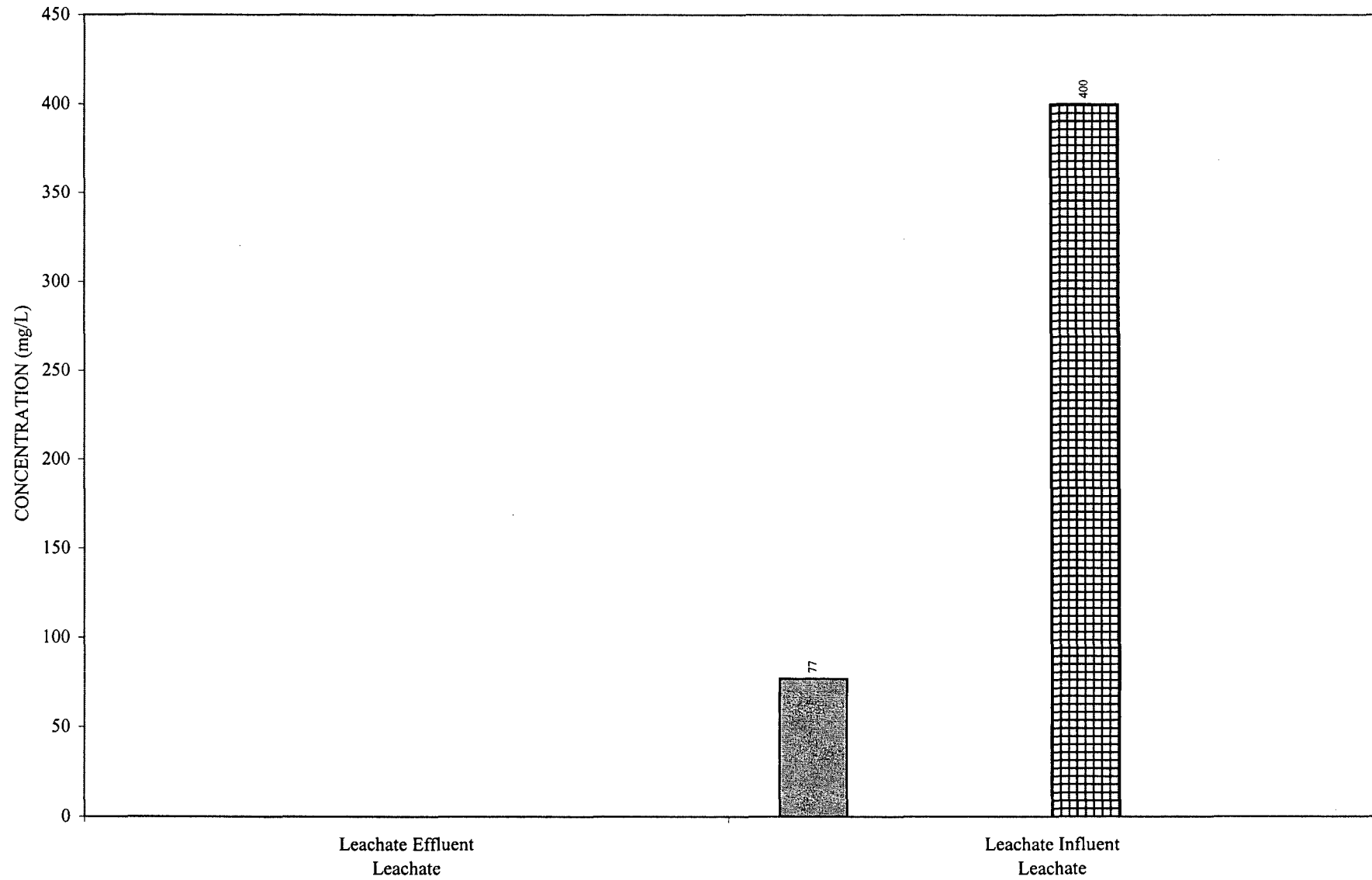
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AMMONIA NITROGEN

CITRUS COUNTY CENTRAL LANDFILL

LEACHATE CHEMISTRY GRAPH

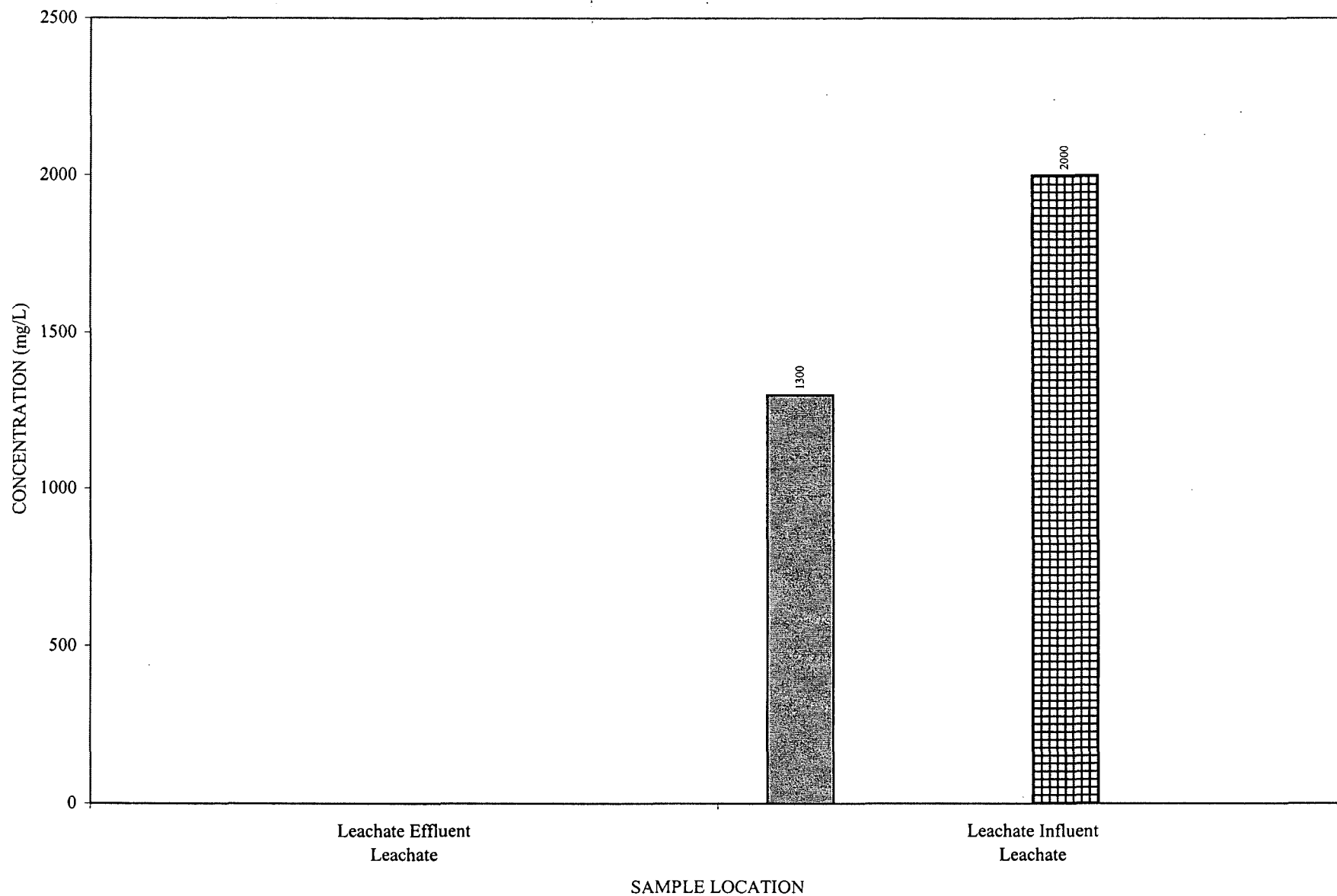


01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

0 = BELOW LABORATORY DETECTION LIMIT

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:NH3

BICARBONATE ALKALINITY AS CaCO₃
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE CHEMISTRY GRAPH

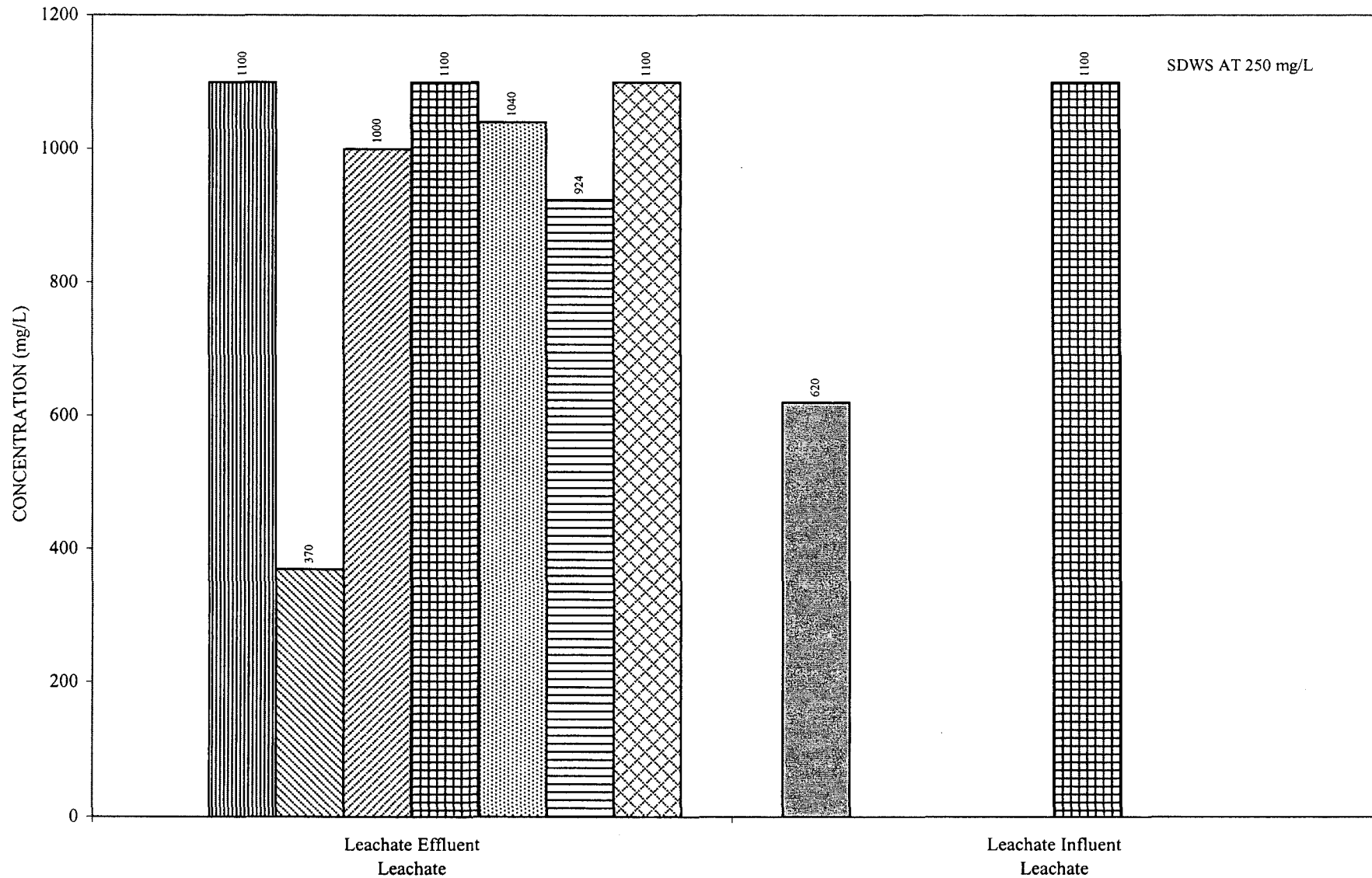


0 = BELOW LABORATORY DETECTION LIMIT

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:BiCCaCO₃

CHLORIDE

CITRUS COUNTY CENTRAL LANDFILL LEACHATE CHEMISTRY GRAPH



01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

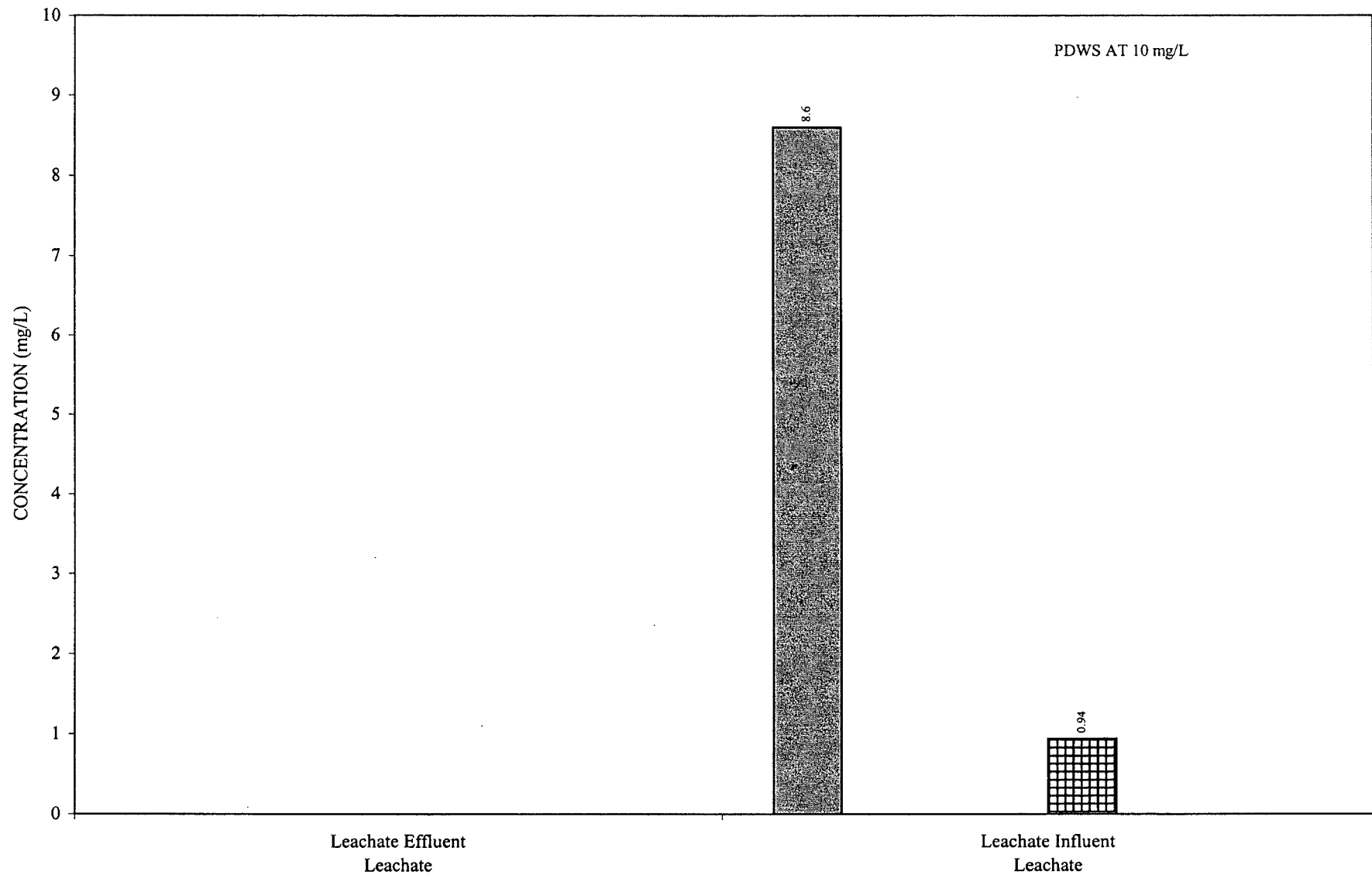
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M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:CL

NITRATE NITROGEN

CITRUS COUNTY CENTRAL LANDFILL

LEACHATE CHEMISTRY GRAPH



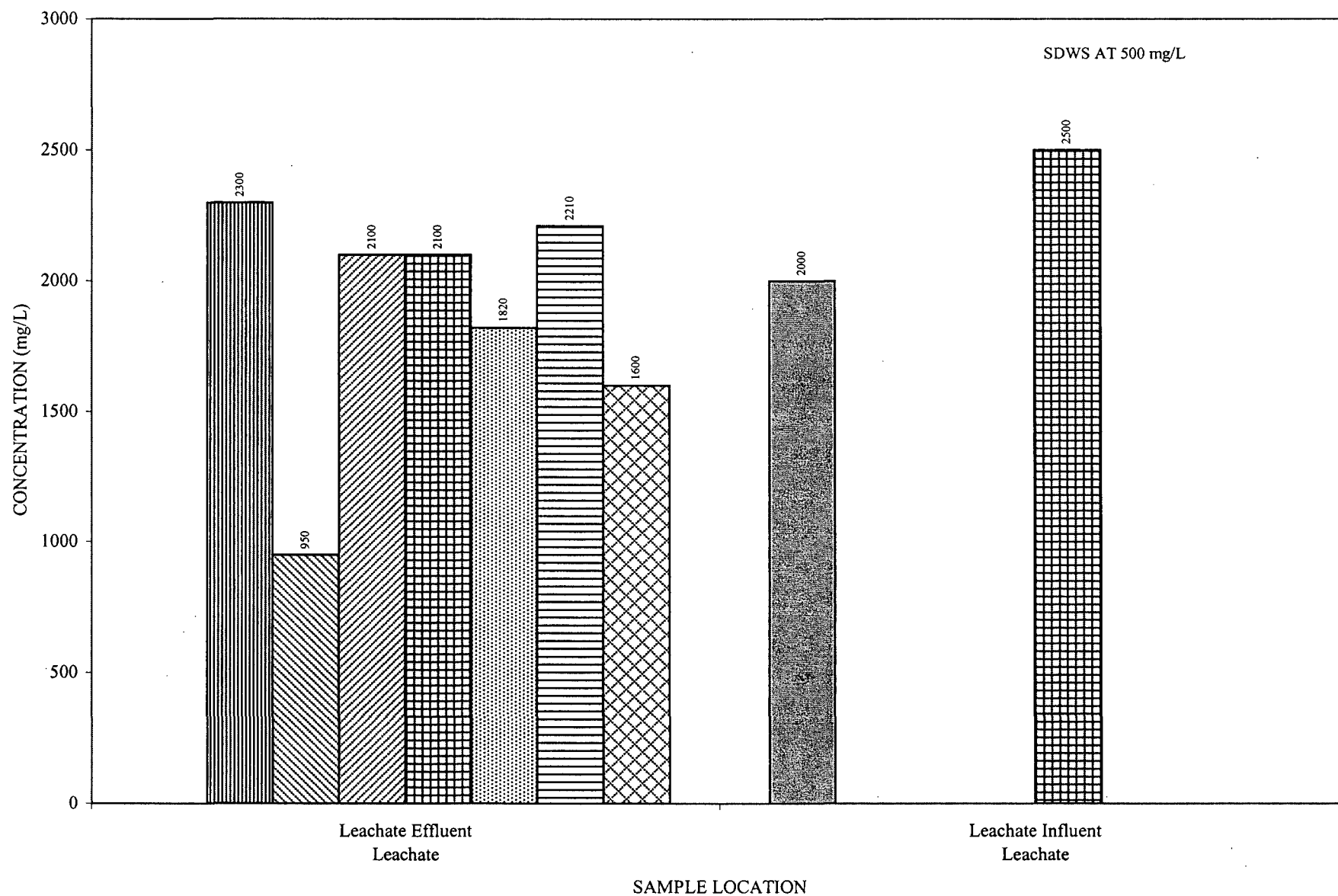
SAMPLE LOCATION

01Q3
01Q4
02Q1
02Q2
02Q3
02Q4
03q1
03Q2

0 = BELOW LABORATORY DETECTION LIMIT

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:NO3

TOTAL DISSOLVED SOLIDS CITRUS COUNTY CENTRAL LANDFILL LEACHATE CHEMISTRY GRAPH



01Q3
 01Q4
 02Q1
 02Q2
 02Q3
 02Q4
 03q1
 03Q2

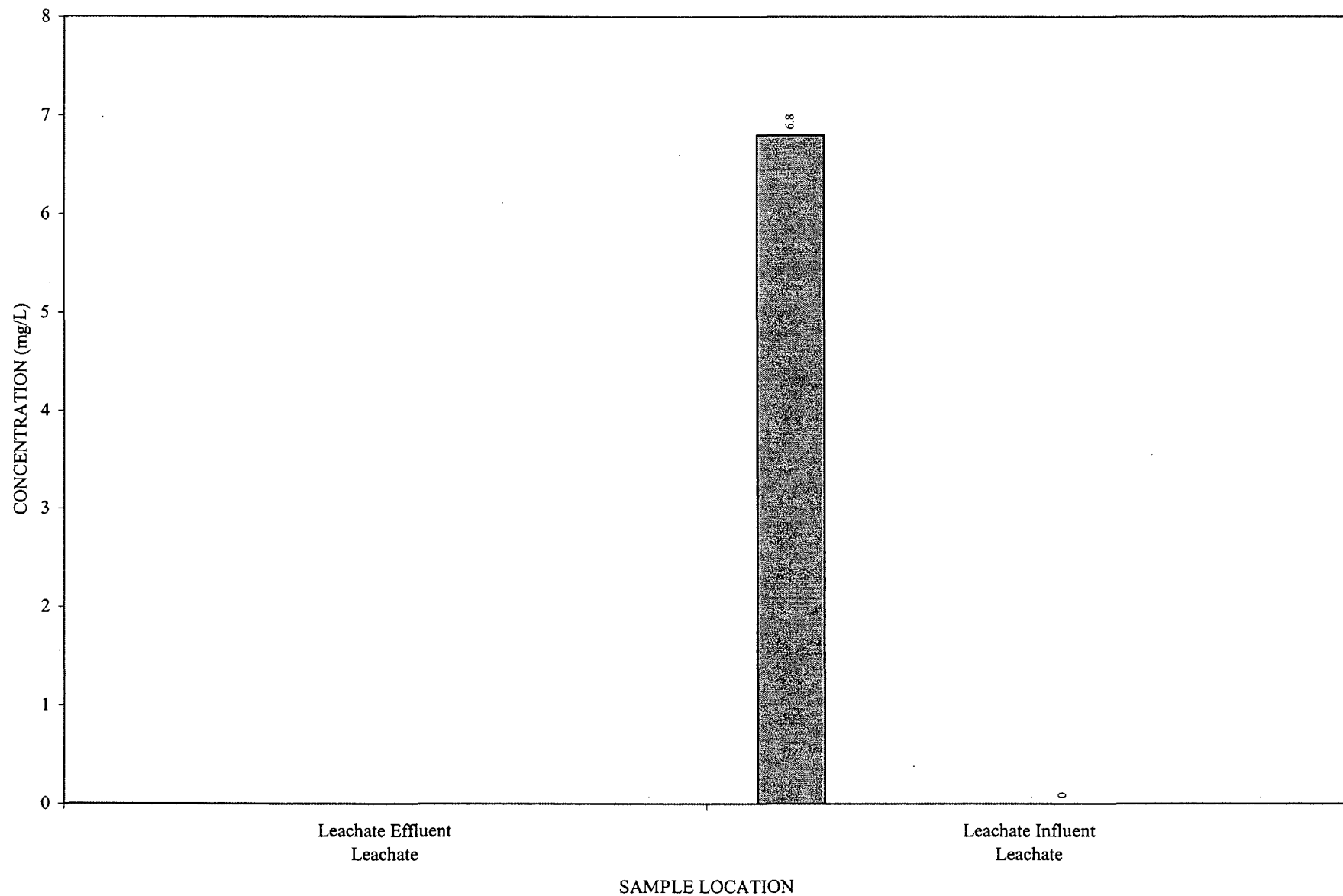
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M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:TDS

TOTAL SULFIDE

CITRUS COUNTY CENTRAL LANDFILL

LEACHATE CHEMISTRY GRAPH

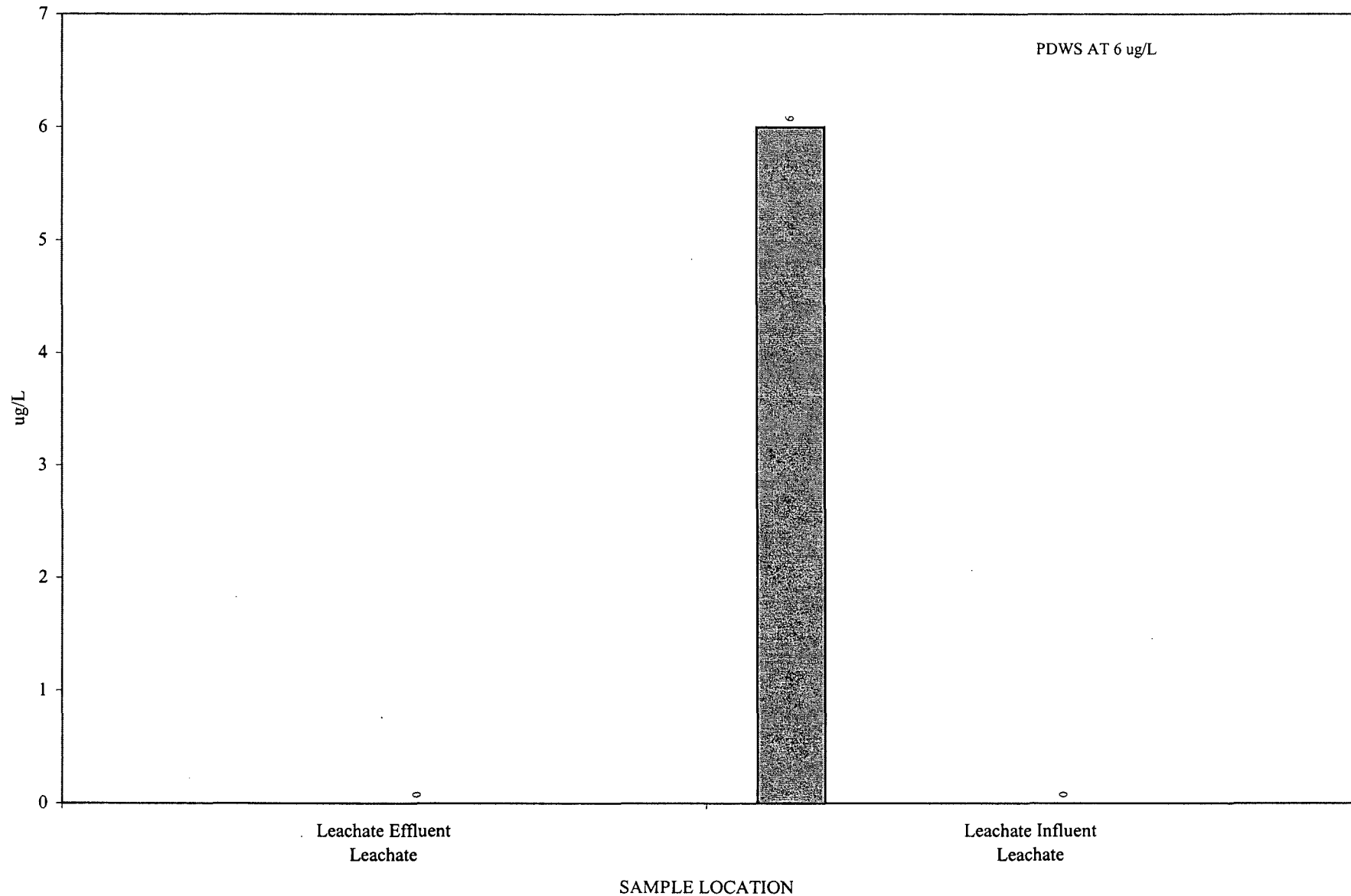


0 = BELOW LABORATORY DETECTION LIMIT

01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:TSUL

ANTIMONY
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE CHEMISTRY GRAPH



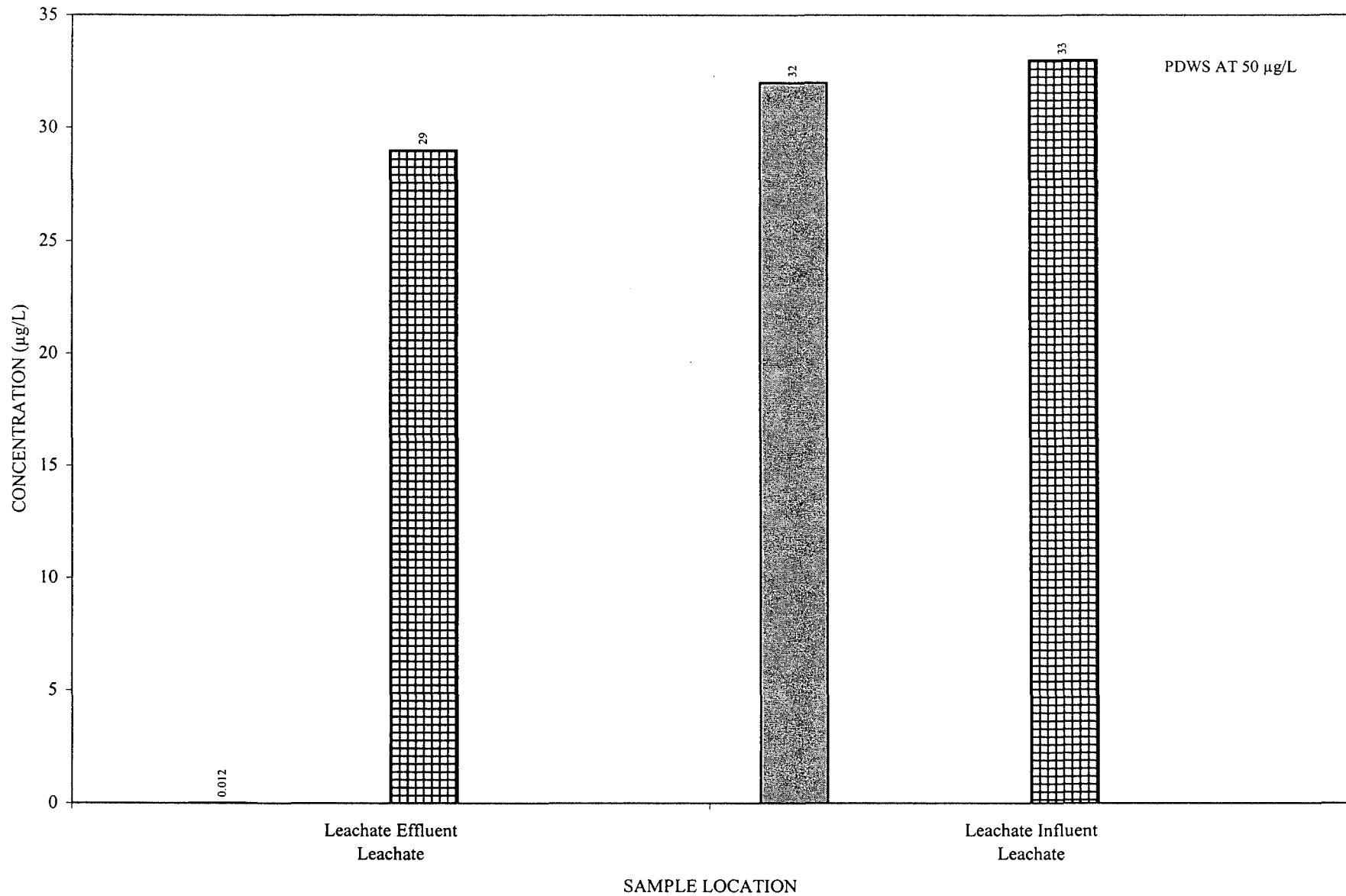
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0 = BELOW LABORATORY DETECTION LIMIT

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ARSENIC

CITRUS COUNTY CENTRAL LANDFILL LEACHATE CHEMISTRY GRAPH



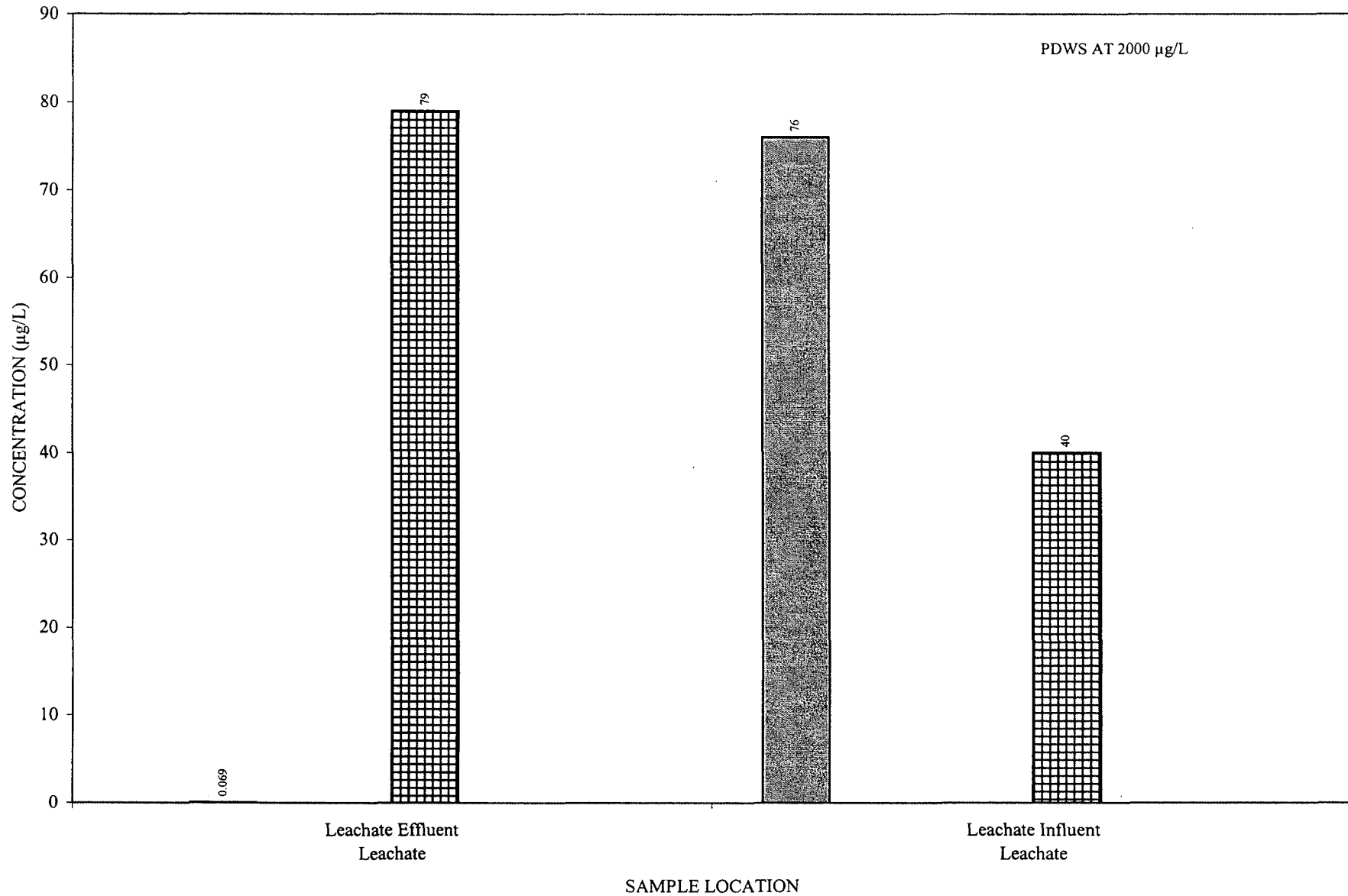
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M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:AS

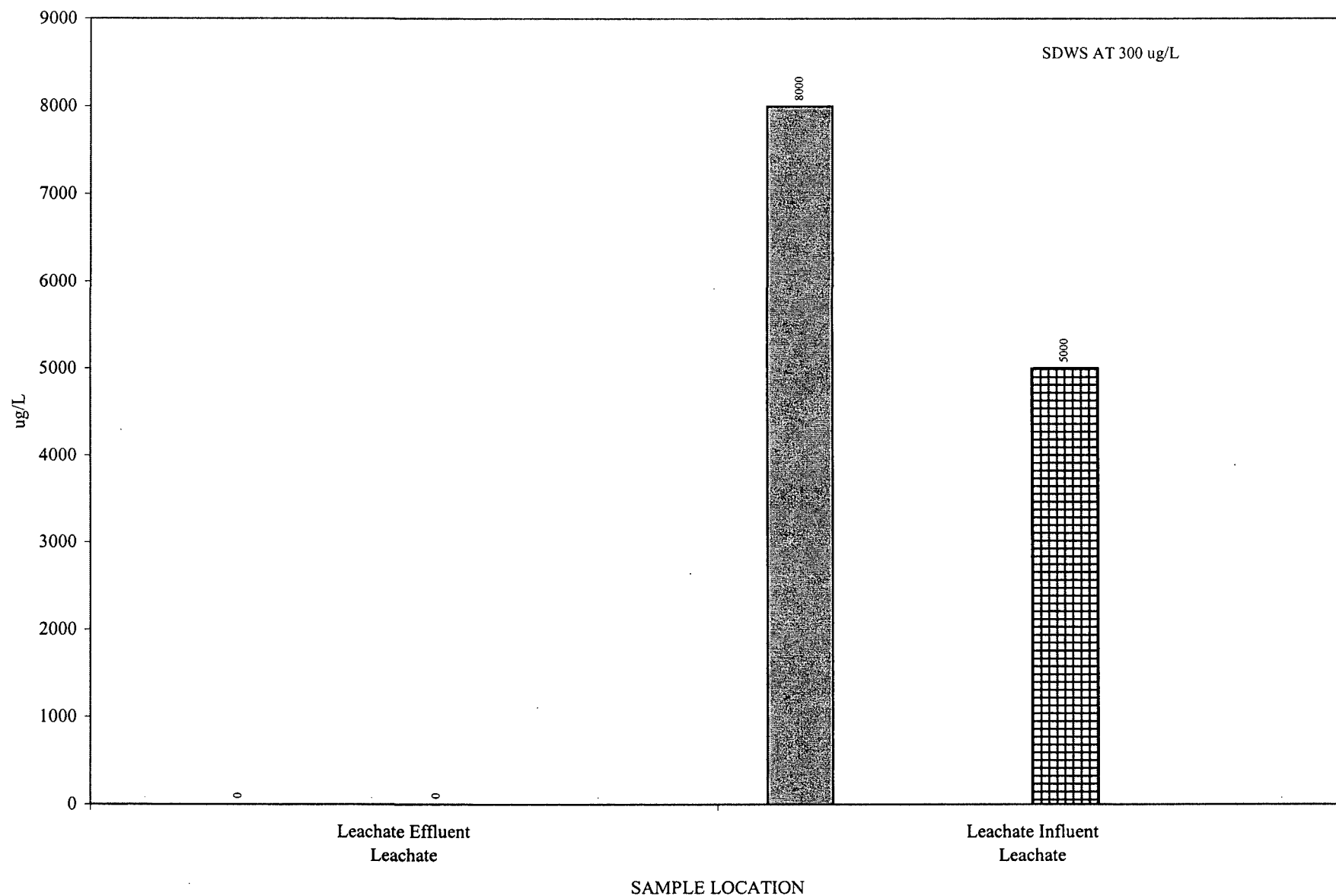
BARIUM

CITRUS COUNTY CENTRAL LANDFILL LEACHATE CHEMISTRY GRAPH



IRON

CITRUS COUNTY CENTRAL LANDFILL LEACHATE CHEMISTRY GRAPH



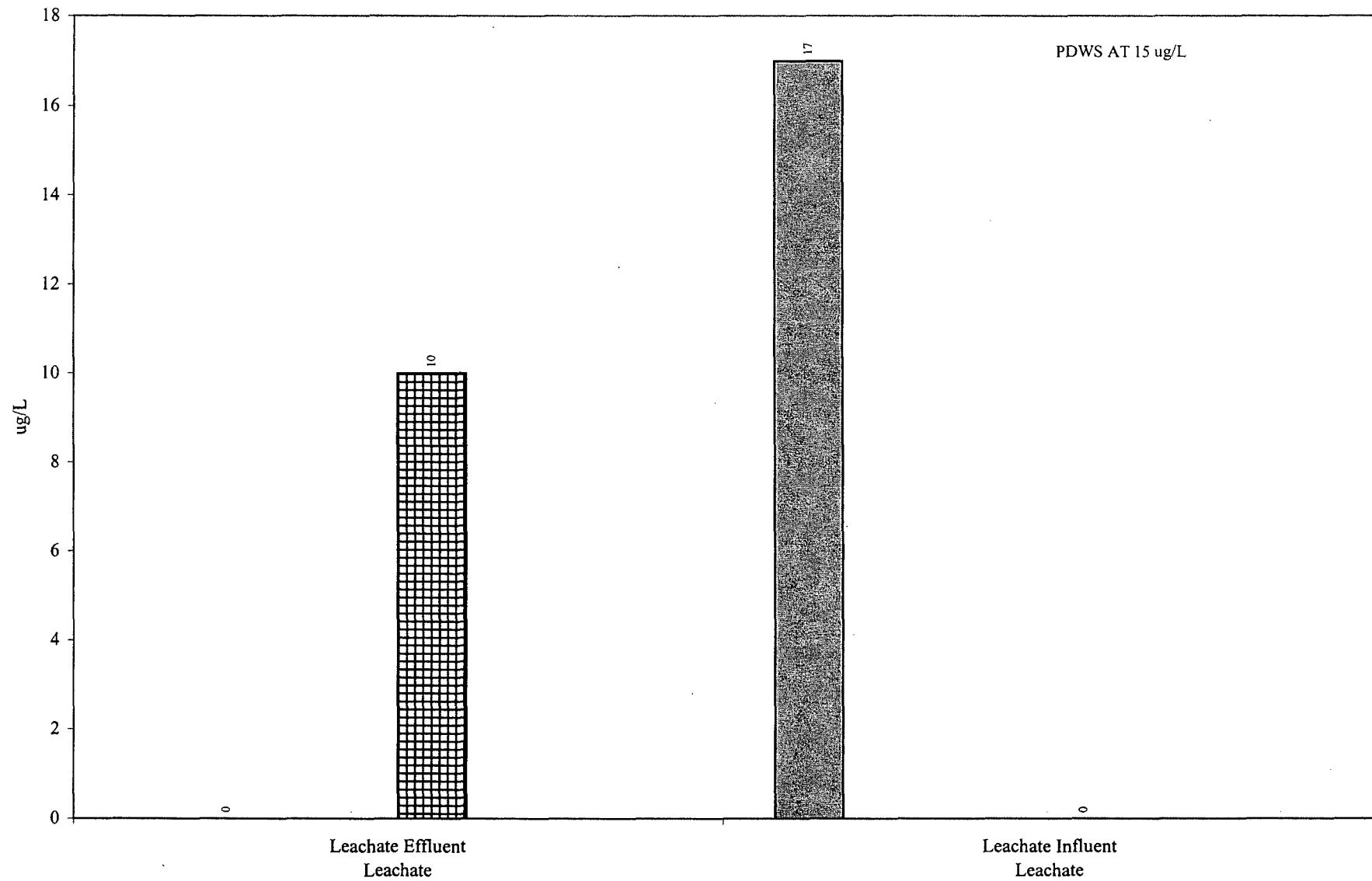
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01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:FE

LEAD

CITRUS COUNTY CENTRAL LANDFILL LEACHATE CHEMISTRY GRAPH



SAMPLE LOCATION

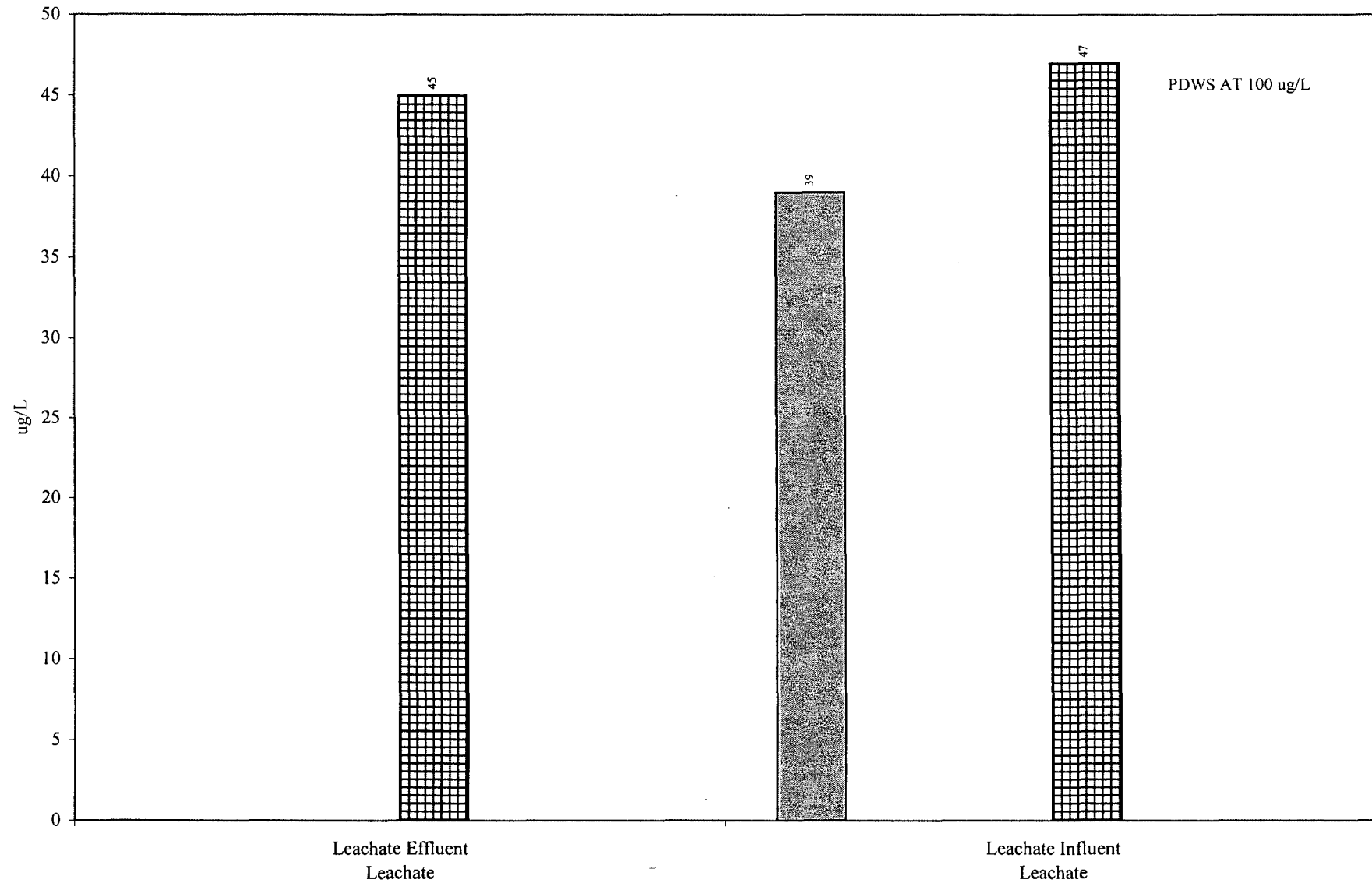
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0 = BELOW LABORATORY DETECTION LIMIT

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:PB

NICKEL

CITRUS COUNTY CENTRAL LANDFILL LEACHATE CHEMISTRY GRAPH



SAMPLE LOCATION

01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

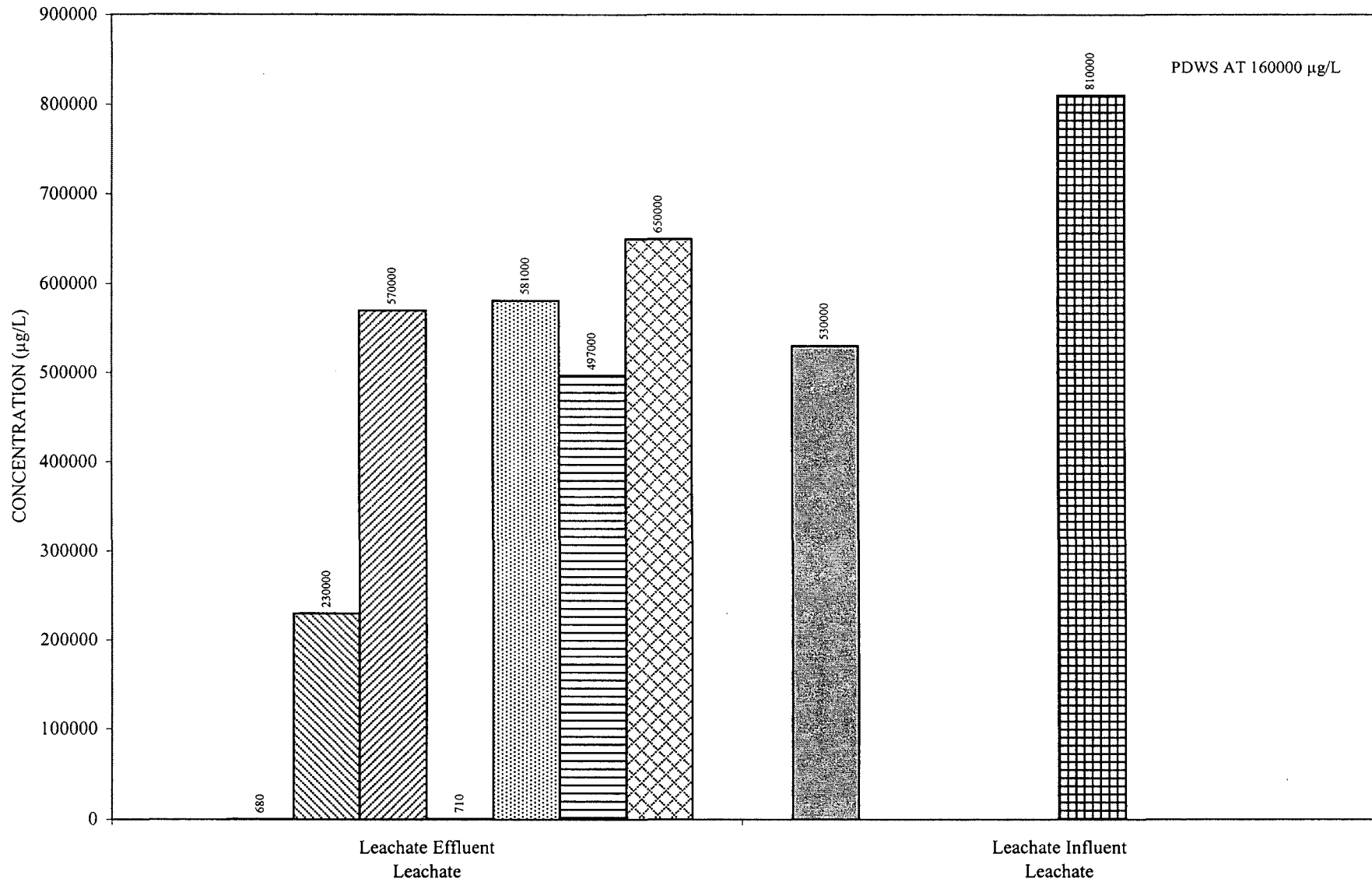
0 = BELOW LABORATORY DETECTION LIMIT

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:NI

SODIUM

CITRUS COUNTY CENTRAL LANDFILL

LEACHATE CHEMISTRY GRAPH



SAMPLE LOCATION

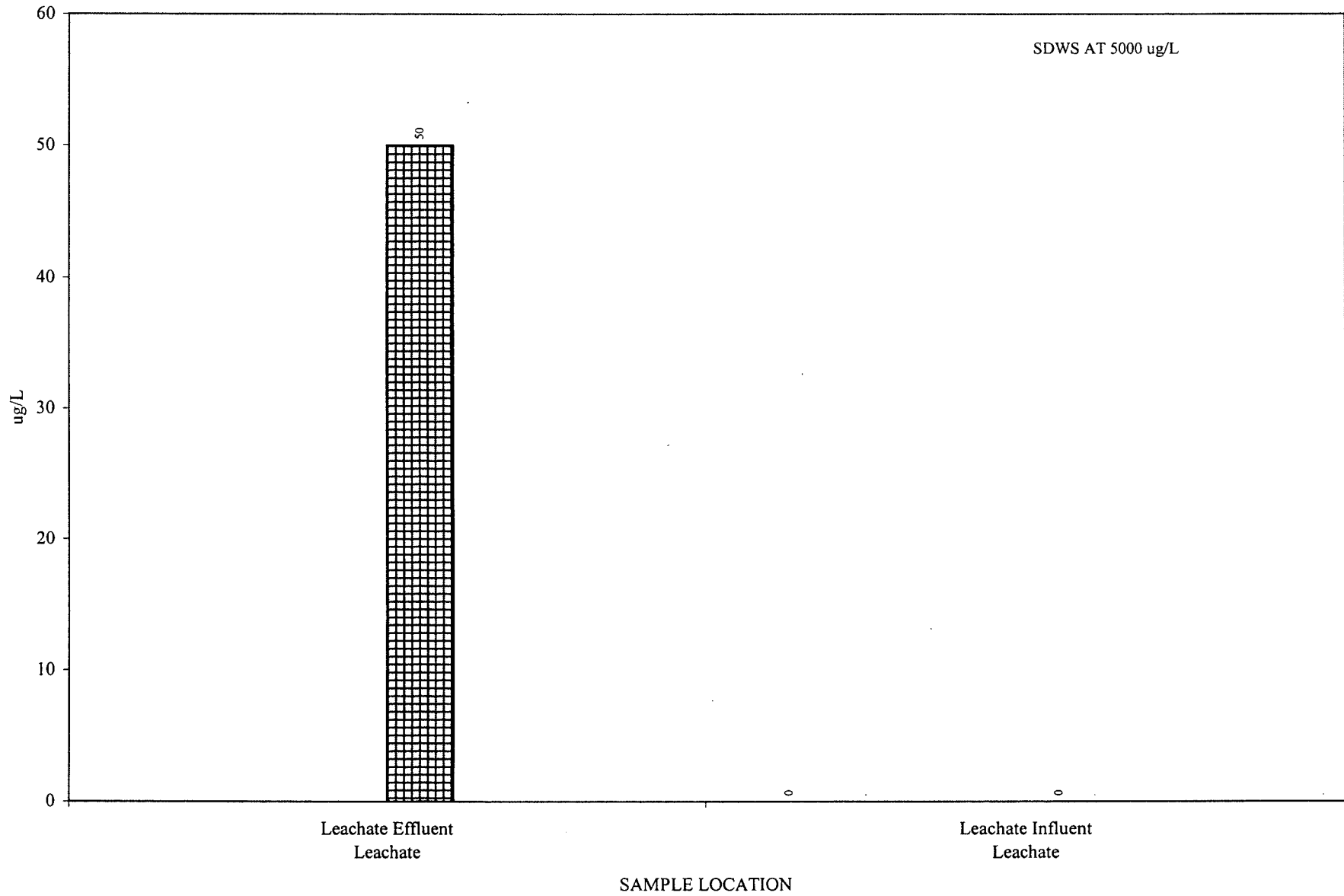
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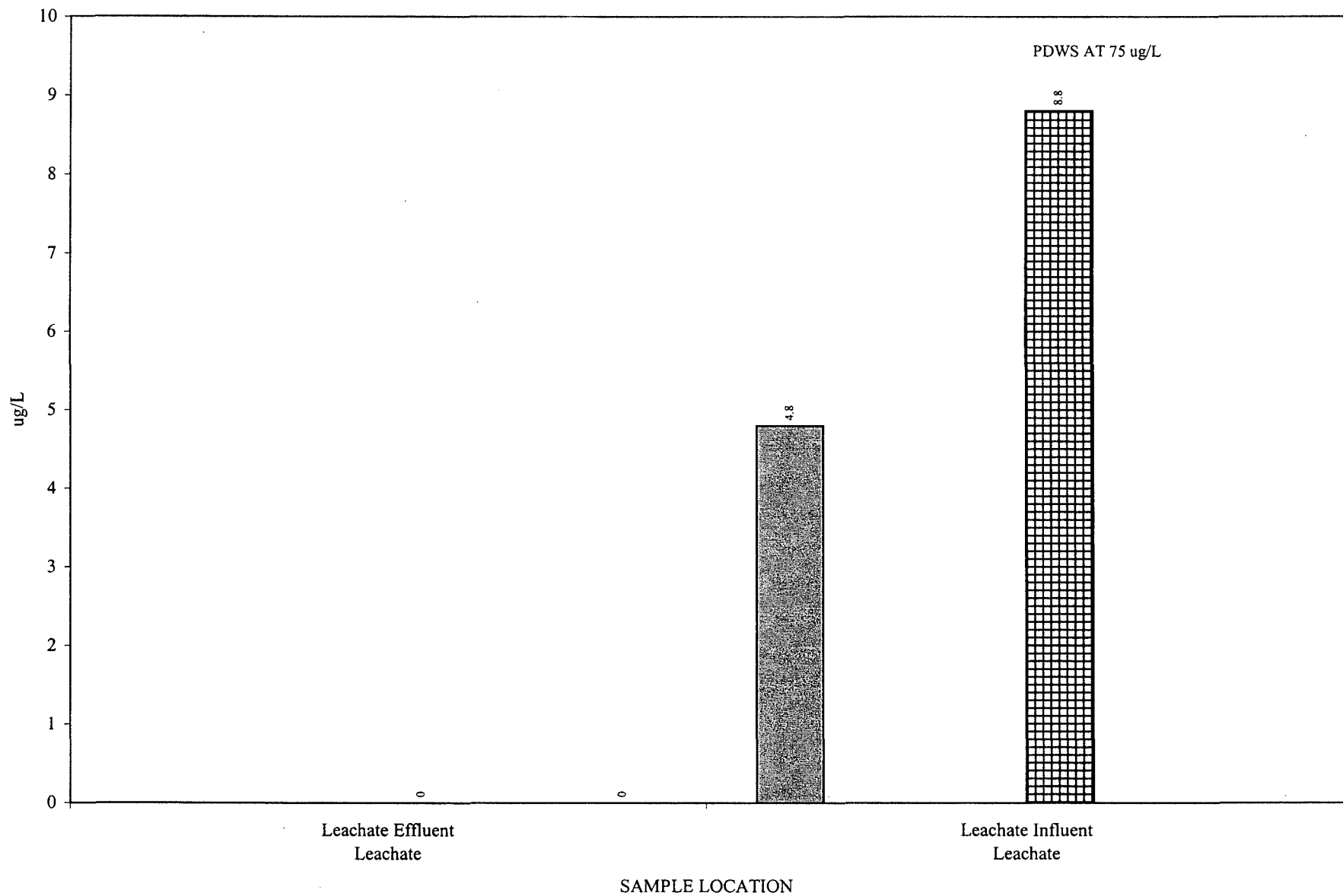
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ZINC

CITRUS COUNTY CENTRAL LANDFILL LEACHATE CHEMISTRY GRAPH



1,4-DICHLOROBENZENE
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE CHEMISTRY GRAPH



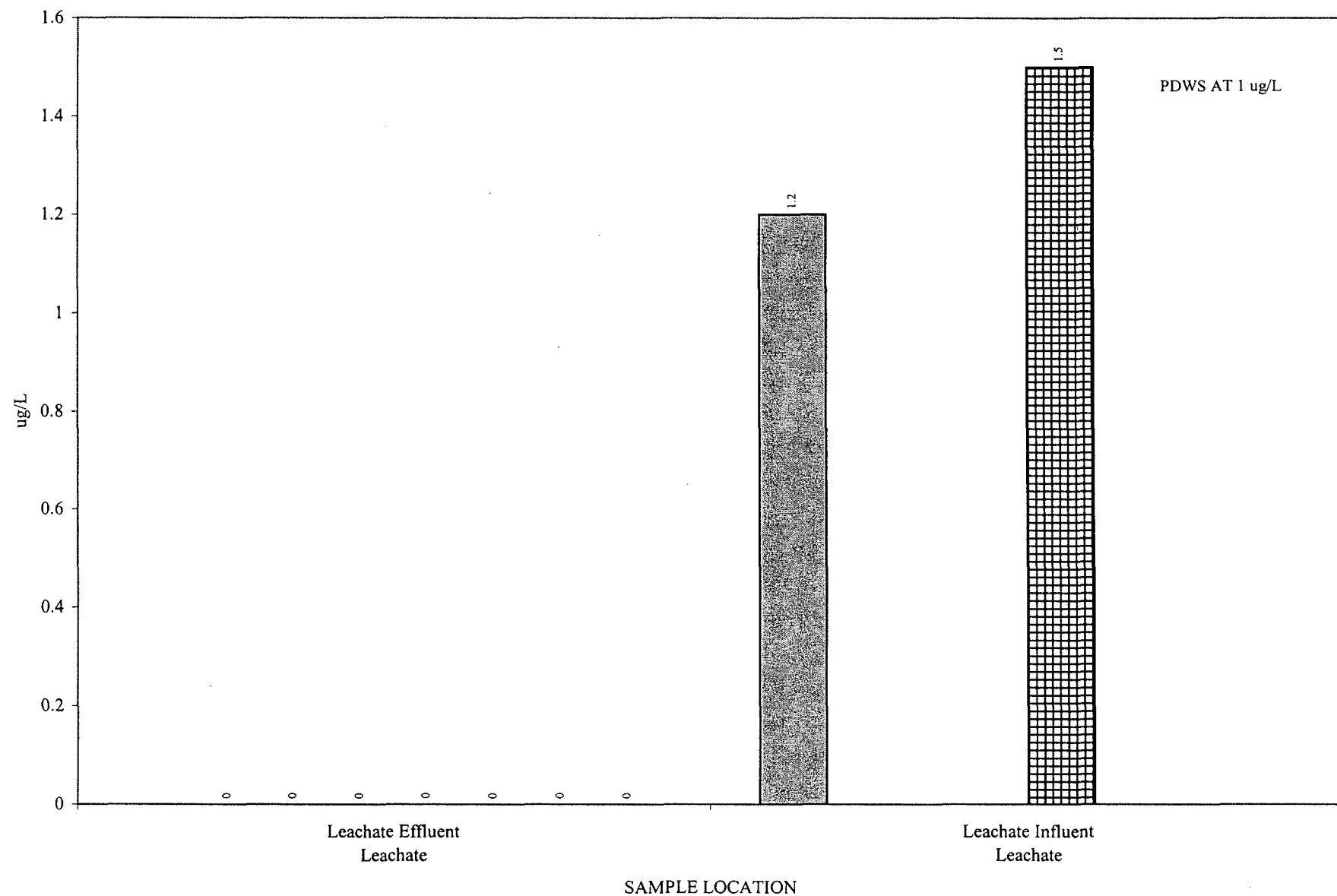
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BENZENE

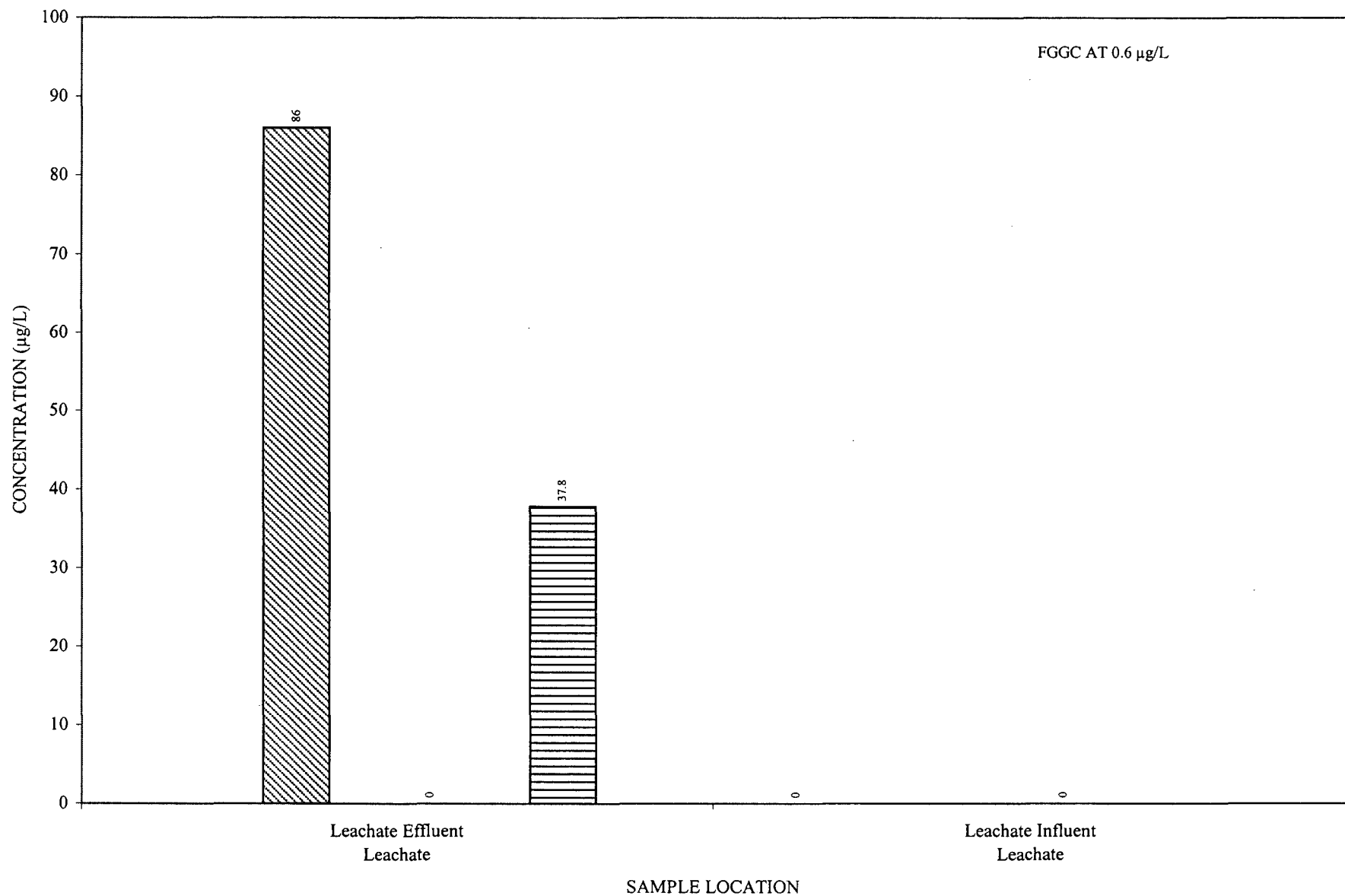
CITRUS COUNTY CENTRAL LANDFILL LEACHATE CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:BEN

BROMODICHLOROMETHANE
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE CHEMISTRY GRAPH



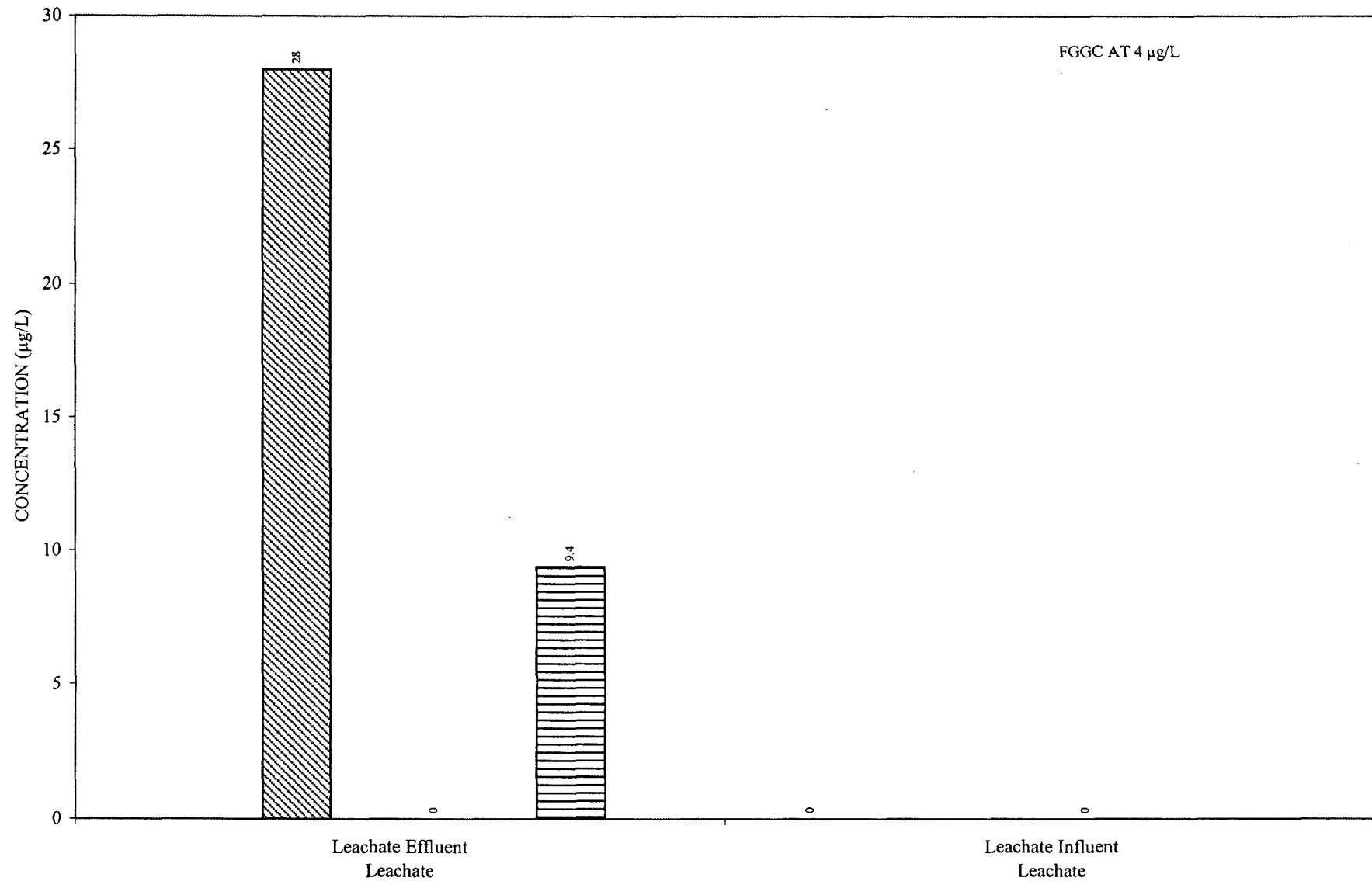
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M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:BDCM

BROMOFORM

CITRUS COUNTY CENTRAL LANDFILL

LEACHATE CHEMISTRY GRAPH



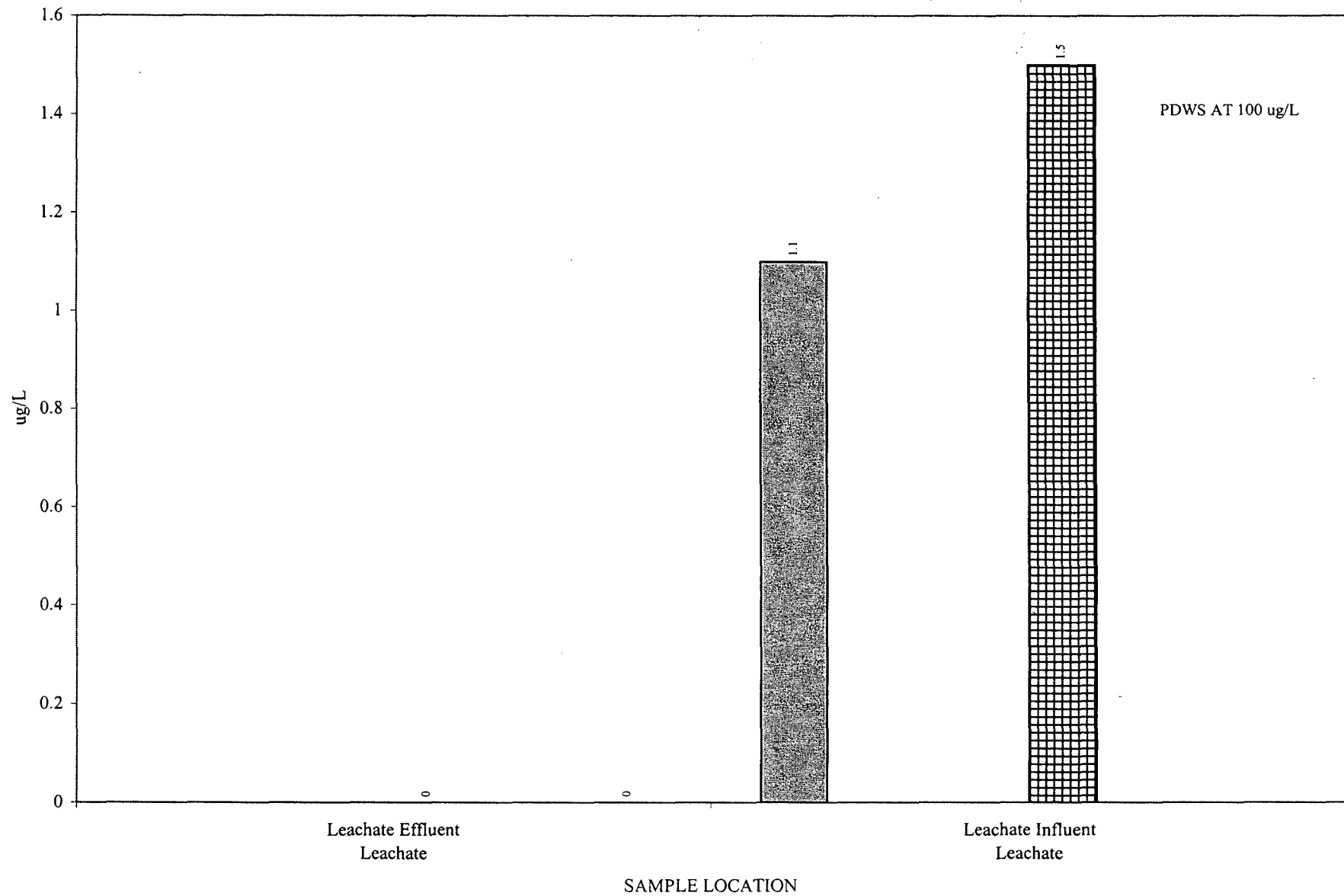
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01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

CHLOROBENZENE

CITRUS COUNTY CENTRAL LANDFILL

LEACHATE CHEMISTRY GRAPH



01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

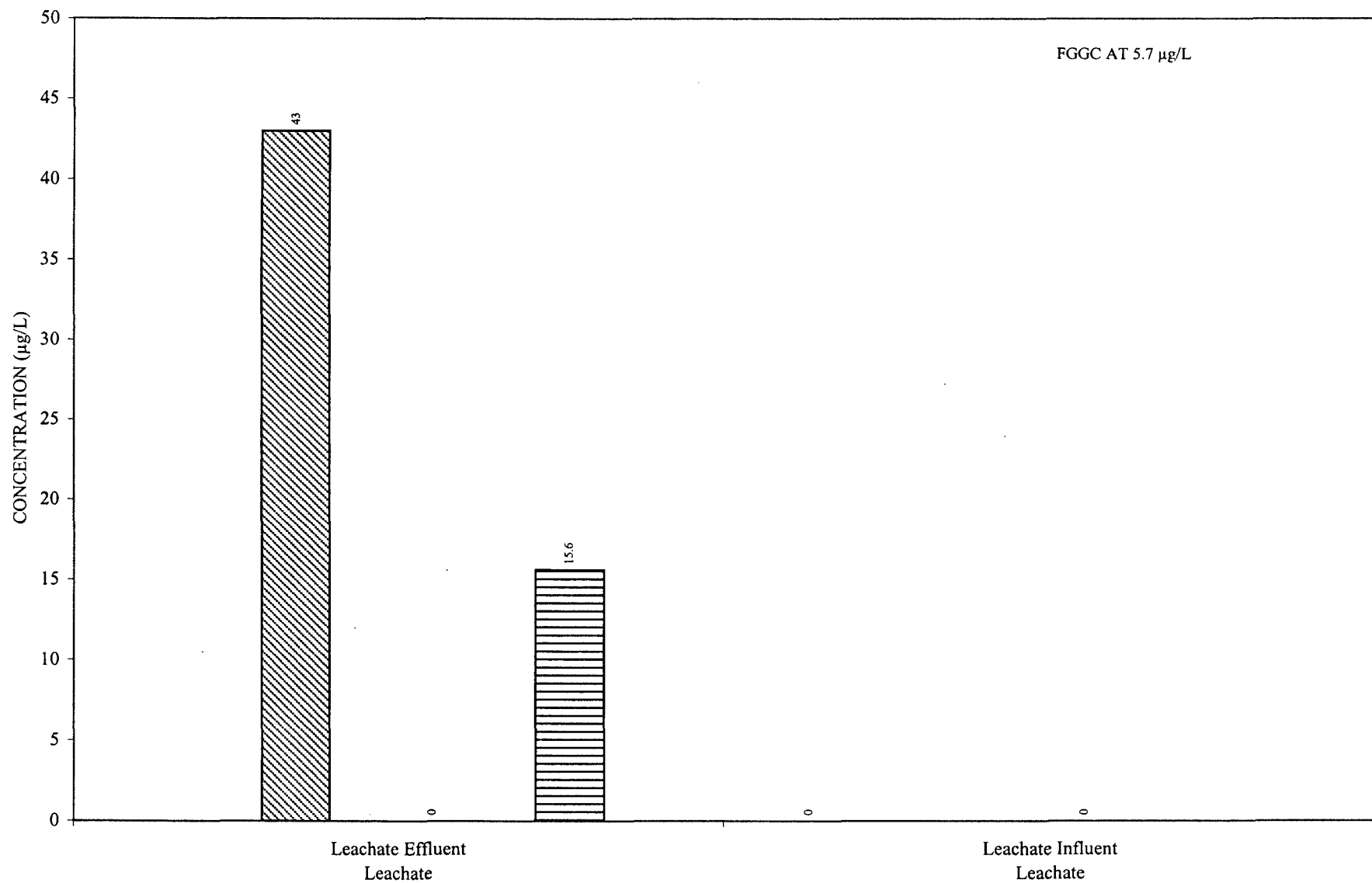
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CHLOROFORM

CITRUS COUNTY CENTRAL LANDFILL

LEACHATE CHEMISTRY GRAPH



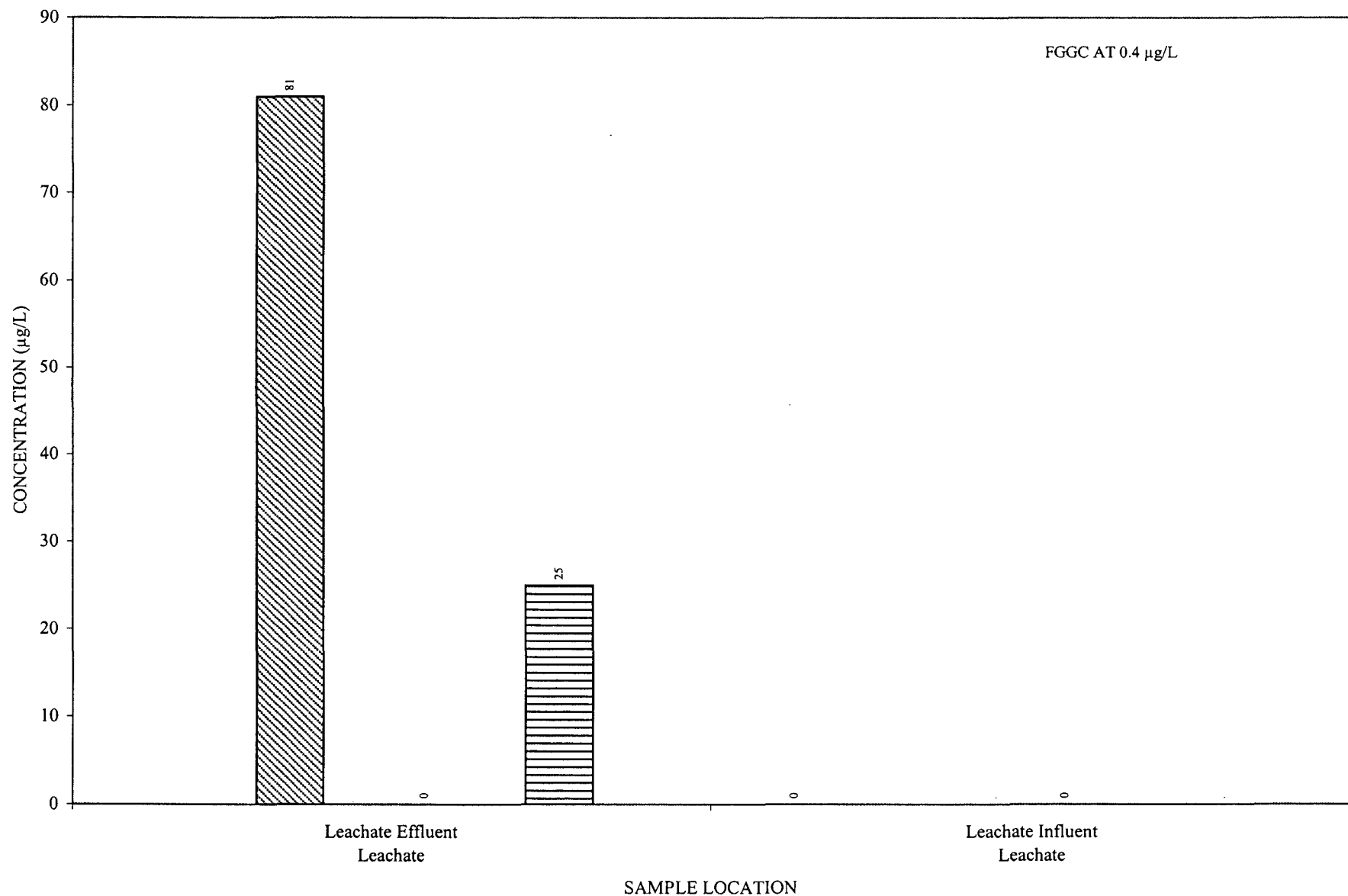
SAMPLE LOCATION

01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

0 = BELOW LABORATORY DETECTION LIMIT

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs.xls:CF

DIBROMOCHLOROMETHANE
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

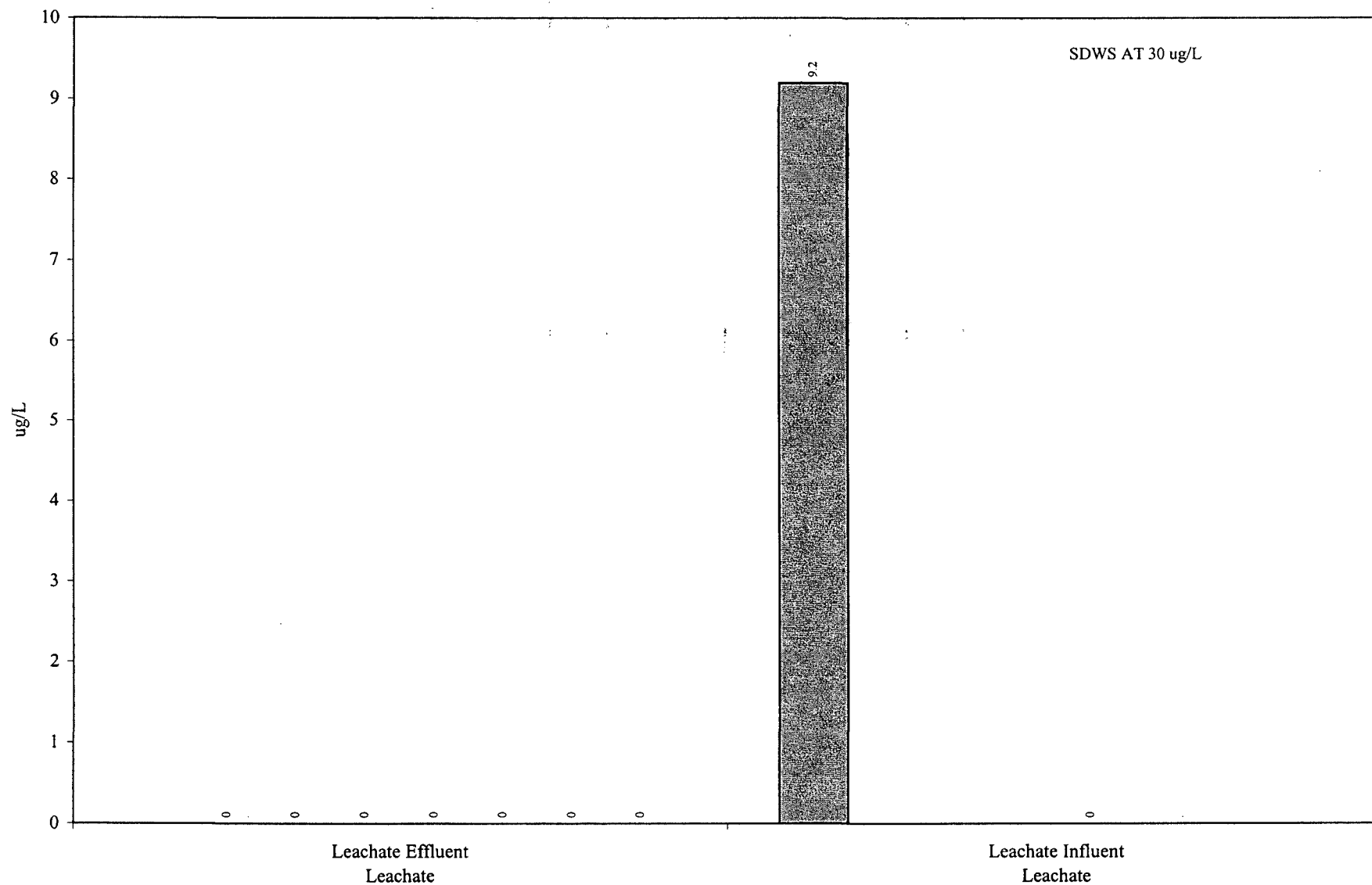
01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs2.xls:DBCM

ETHYLBENZENE

CITRUS COUNTY CENTRAL LANDFILL

LEACHATE CHEMISTRY GRAPH

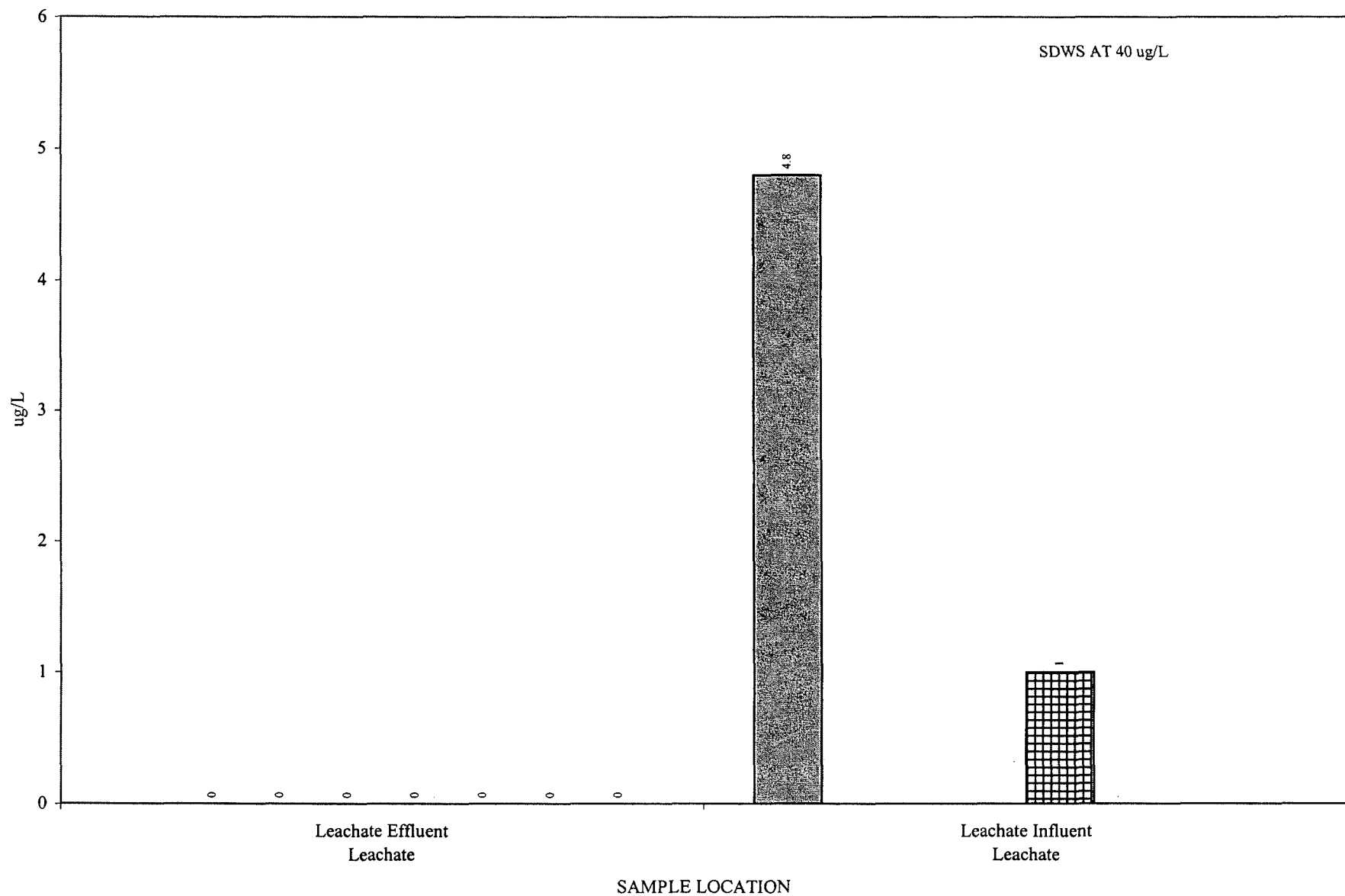


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01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

TOLUENE

CITRUS COUNTY CENTRAL LANDFILL LEACHATE CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

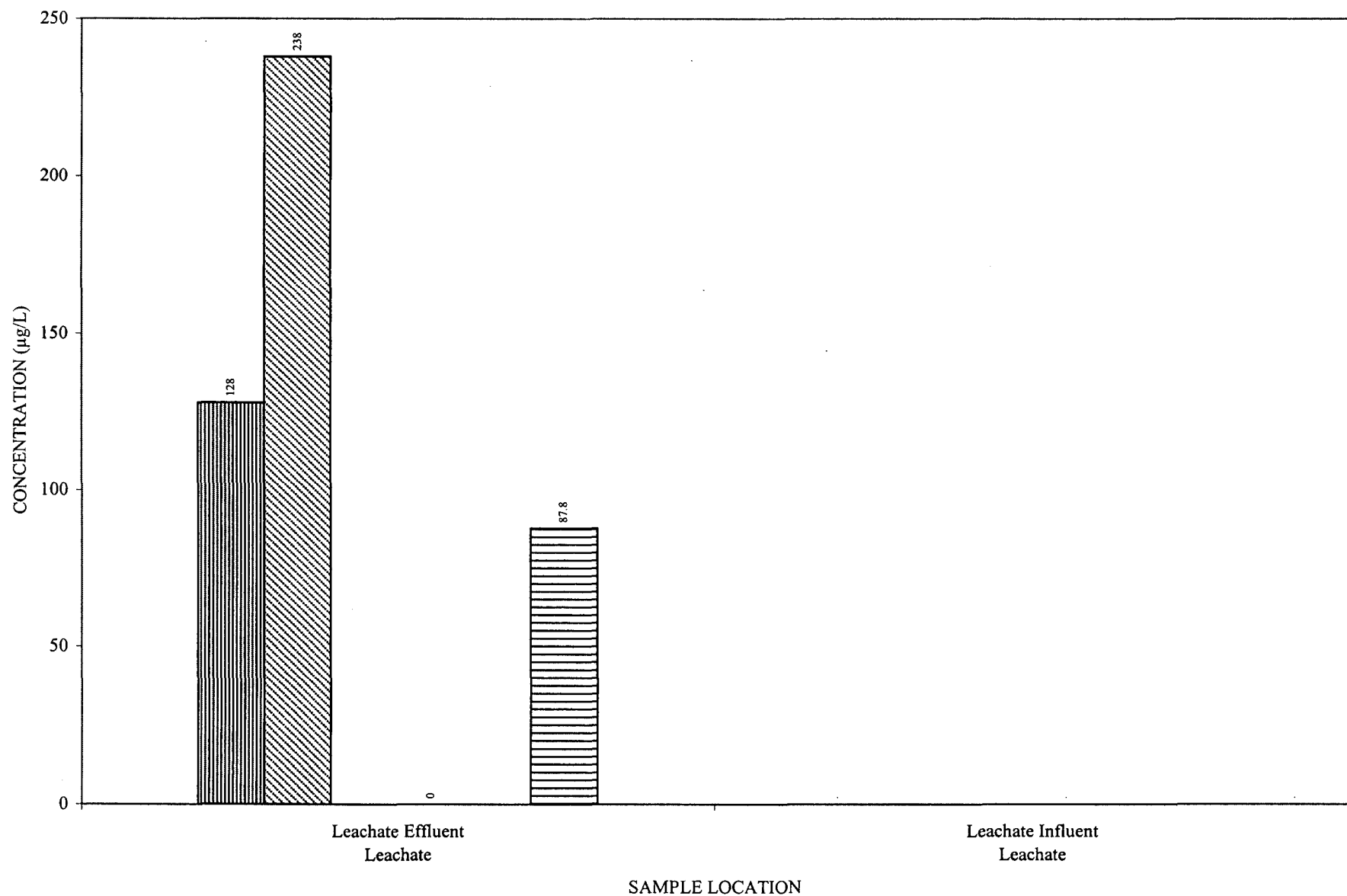
01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs2.xls:TOL

TOTAL TRIHALOMETHANES

CITRUS COUNTY CENTRAL LANDFILL

LEACHATE CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

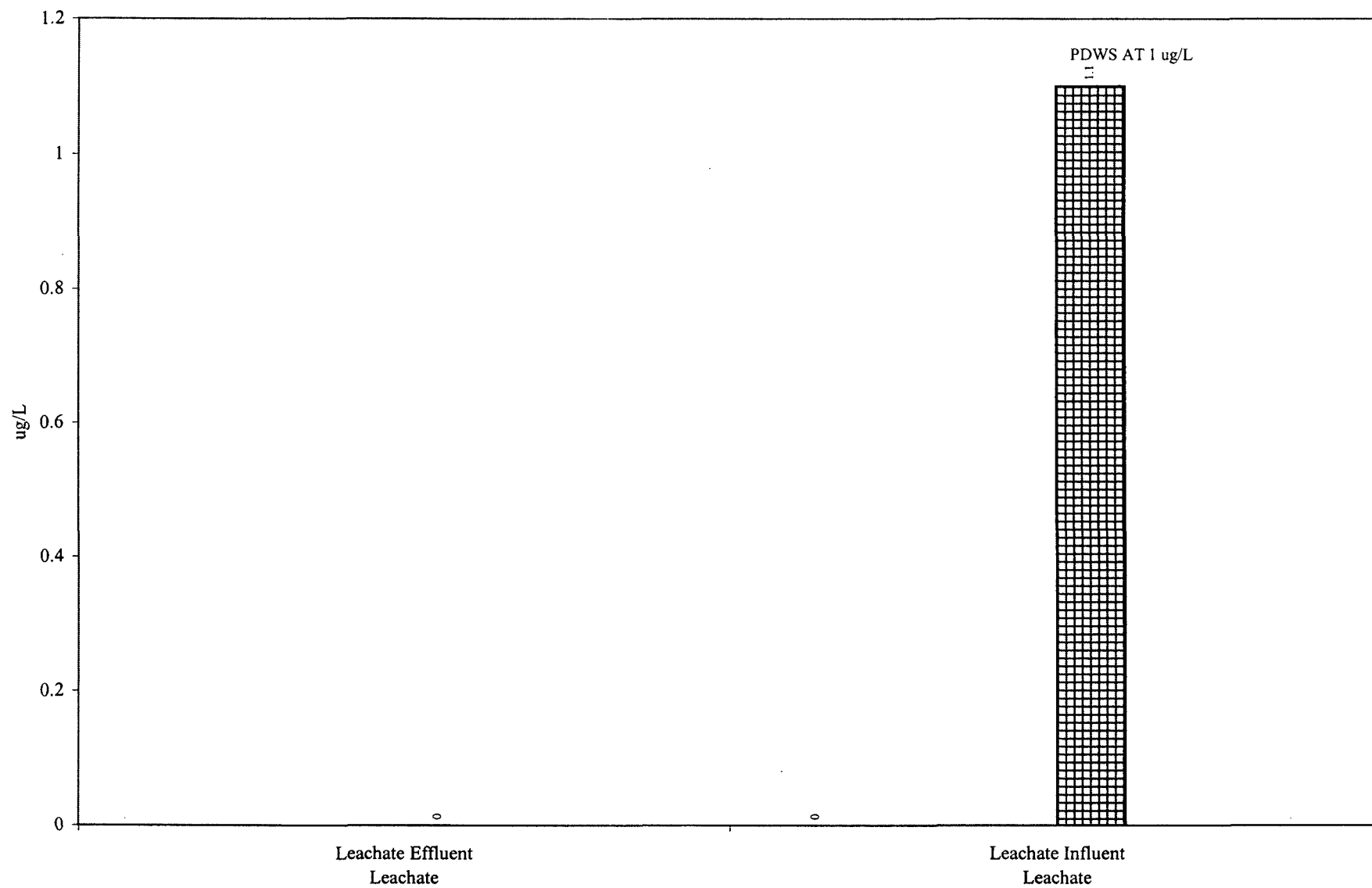
01Q3 01Q4 02Q1 02Q2 02Q3 02Q4 03q1 03Q2

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs2.xls:TTHM

VINYL CHLORIDE

CITRUS COUNTY CENTRAL LANDFILL

LEACHATE CHEMISTRY GRAPH



01Q3
 01Q4
 02Q1
 02Q2
 02Q3
 02Q4
 03q1
 03Q2

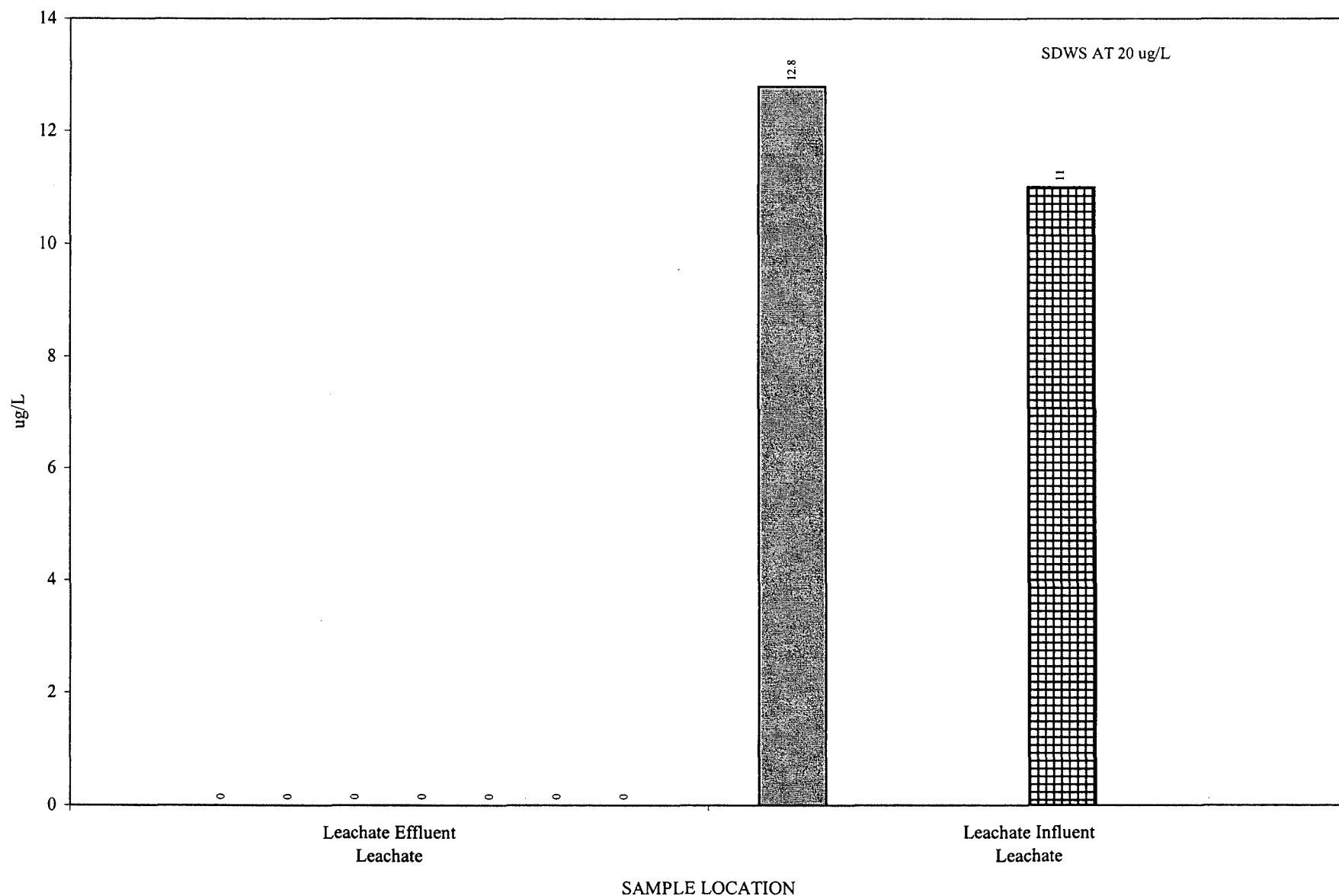
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XYLENES

CITRUS COUNTY CENTRAL LANDFILL

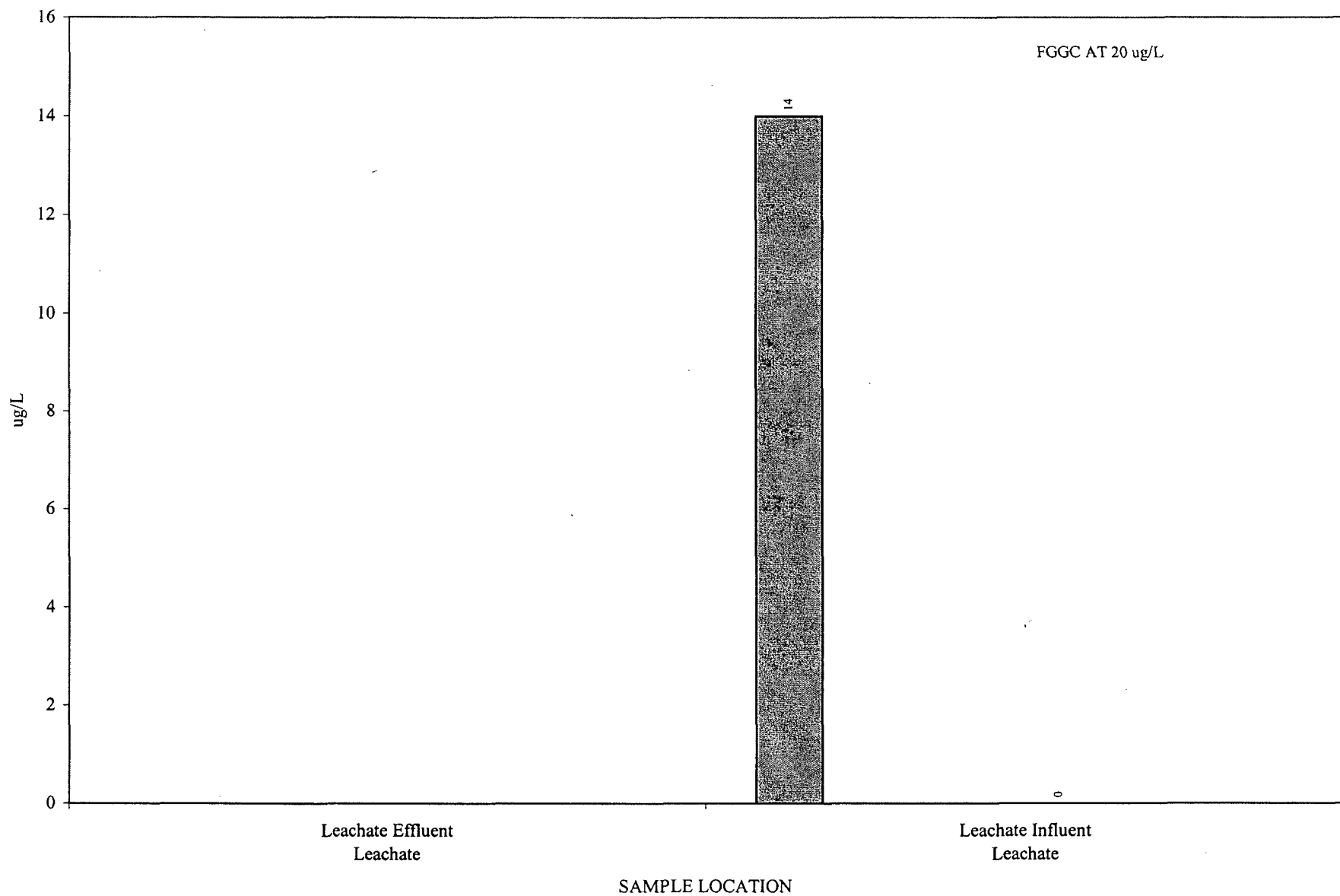
LEACHATE CHEMISTRY GRAPH



0 = BELOW LABORATORY DETECTION LIMIT

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs2.xls:XY

NAPHTHALENE
CITRUS COUNTY CENTRAL LANDFILL
LEACHATE CHEMISTRY GRAPH



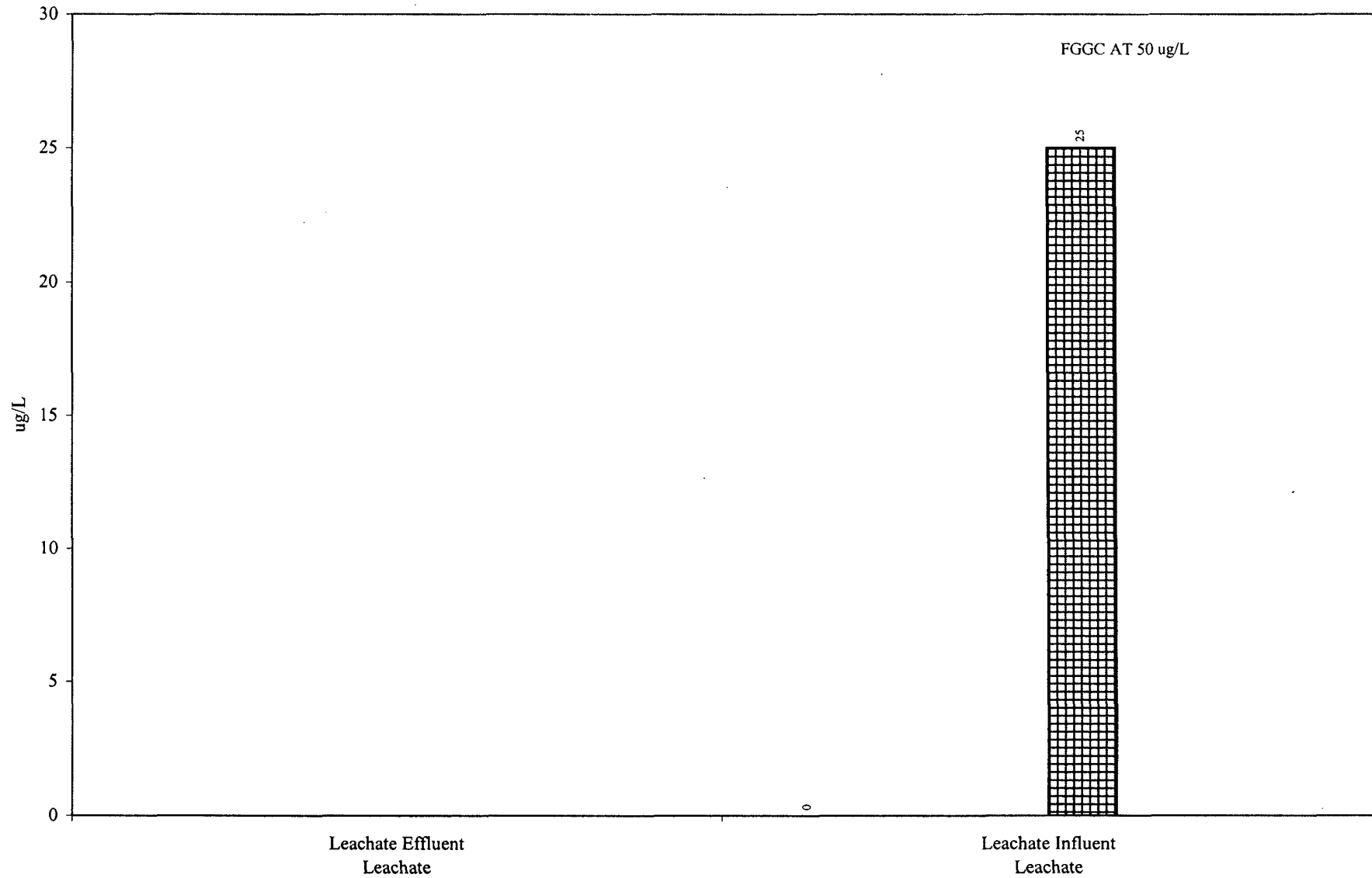
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O-TOLUIDINE

CITRUS COUNTY CENTRAL LANDFILL

LEACHATE CHEMISTRY GRAPH



SAMPLE LOCATION

01Q3
 01Q4
 02Q1
 02Q2
 02Q3
 02Q4
 03q1
 03Q2

0 = BELOW LABORATORY DETECTION LIMIT

M:\EnvDocs\Citrus County\2003\2002-2003 Biennial\Leachate Graphs2.xls:O_T