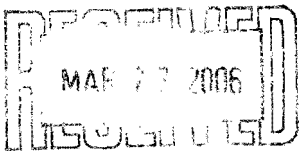
ENVIRONMENTAL
MANAGEMENT SERVICES, INC.

March 24, 2006



Laura Stuart-Leslie, P.G.
Senior Geologist
Arkansas Department Environmental Quality
8001 National Drive
Little Rock, AR 72219-8913

RE: 2005 Annual Ground Water Report
El Dorado Chemical Company
El Dorado, Arkansas
EPA ID No. ARD001700657

Dear Ms. Stuart:

On behalf of El Dorado Chemical Company (EDCC), Environmental Management Services, Inc. respectfully submits the 2005 Annual Ground Water Report for the EDCC facility in El Dorado Arkansas. If you have any questions or require additional information, please contact Randall Whitmore at (870) 863-1498 or Wes Morgan at (870) 863-1484.

Sincerely,

Environmental Management Services, Inc.

Charles Cospelich
Hydrogeologist

cc: Randall Whitmore
Wes Morgan

12232 INDUSTRIPLEX BOULEVARD, SUITE 27 • BATON ROUGE, LOUISIANA 70809 • PHONE (225) 751-5386 • FAX (225) 751-5387 • info@env-mgt.com

2005 ANNUAL GROUND WATER REPORT

Prepared For:

El Dorado Chemical Company

Prepared By:

ENVIRONMENTAL MANAGEMENT SERVICES, INC

12232 Industriplex Blvd, Suite 27
Baton Rouge, Louisiana
(225) 751-5386

April 21, 2006

2005 ANNUAL GROUND WATER REPORT
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

TABLE OF CONTENTS

TABLES

2005 ANNUAL GROUND WATER REPORT
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

TABLE OF CONTENTS

FIGURES

APPENDICES

2005 ANNUAL GROUND WATER REPORT
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

1.0 INTRODUCTION

This report presents the results of ground water sampling activities conducted at the El Dorado Chemical Company (EDC) facility during 2005. Field sampling techniques, ground water flow and ground water quality are discussed. A site map is provided as Figure 1.

2.0 SITE GEOLOGY

The EDC facility is located west of the Mississippi Embayment in the Gulf Coastal Plain Geostratigraphic Region. Sediments within the region are characterized as a thick sequence of unconsolidated sediments, fluvial-deltaic in origin, and Tertiary in age. In some areas of Union County, unconsolidated alluvial deposits, Quaternary in age, overlay the Tertiary sediments.

Within the Claiborne Group, two units crop out in Union County, the Cook Mountain Formation and the Cockfield Formation. The Cook Mountain is overlain by the Cockfield Formation. The Cook Mountain is uniformly underlain by the Sparta Formation. The Cook Mountain is 50 to 200 feet thick and is composed of clay and silty clay containing minor amounts of localized very fine to silty sand. These clays serve as a confining unit between the more permeable overlying Cockfield Formation and the underlying aquifer. The Cockfield Formation, locally referred to as the "lignite sand", is generally characterized by fine sand, interbedded silty clay and lignite becoming more massive and containing less silt and clay with depth. The local shallow subsurface consists of interbedded sand, silty sand, silt and clay, with more clay in the northern area of the property and more sand to the south.

3.0 GROUND WATER MONITORING

The ground water monitoring program including parameters, sampling methodology and laboratory analyses is described in the following sections.

3.1 MONITORING PARAMETERS

Statistical analyses were performed on ground water data to compare downgradient well data to upgradient (background) data to determine if the site constituents of concern are present at statistically significant levels. As a result of the statistical analyses, the monitoring program has been revised. The list was changed to allow EDC to continue to collect data to evaluate the potential risk associated with the current groundwater conditions, but eliminate parameters for which there is sufficient data. The changes to the monitoring program that were implemented in 2006 are as follows:

- ***Continued with no change***: The four monitor wells that were installed in 2004 (MW-19, MW-20, MW-21, MW-22) will continue to be sampled for ammonia, nitrate, lead and chromium because there is not enough data to compare these wells to the background levels.

- ***Background Wells***: There is sufficient data to establish the background levels of ammonia, nitrate, lead and chromium in the three background wells MW-1, MW-2 and MW-3. These four parameters were dropped from the annual parameter list but will be sampled once every three years to verify the current data set.

- ***Ammonia***: The statistical evaluation indicates that wells MW-4, MW-5, MW-9, MW-10, MW-13, MW-14, MW-15 and MW-18 have concentrations of ammonia comparable to the background level. Ammonia was dropped from the parameter list for these wells. Ammonia will continue to be analyzed in monitor wells MW-6, MW-7, MW-8, MW-11, MW-12, MW-16, and MW-17.

- ***Nitrate***: The statistical evaluation indicates that monitoring wells MW-4, MW-5, MW-12, MW-13, and MW-18 have concentrations of nitrate comparable to the background level. Nitrate is analyzed in monitor wells MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-14, MW-15, MW-16, and MW-17.

- ***Chromium***: All monitoring wells except MW-18 have concentrations of chromium comparable to the background level. Chromium was dropped from the parameter list of all wells except MW-18.

- ***Lead***: All monitoring wells except MW-18 and MW-7 have concentrations of lead comparable to the background level. Lead was dropped from the parameter list of all wells except MW-18 and MW-7.

- ***Sulfate and Total Dissolved Solids***: There is sufficient ground water data for sulfate and TDS. Both parameters were dropped from the list of all monitoring wells at this time.

The parameters can be added back to the list at a latter date if the information becomes necessary.

- ***Vanadium***: Vanadium was added to the list of parameters in 2004. All monitor wells will continue to be analyzed for vanadium until a sufficient amount of data is collected to statistically evaluate this parameter.

Several new parameters were collected from all wells during the October 2005 sampling event. Field testing will be conducted to collect pH, temperature, specific conductance, dissolved oxygen, and redox. In addition, samples will be shipped to the laboratory and analyzed for Alkalinity, Nitrite, Dissolved Manganese, Dissolved Iron, Total Phosphorus and Total Organic Carbon. These parameters will be analyzed again during the May 2006 sampling event.

3.2 FIELD SAMPLING

Ground water sampling events were conducted in January, May and October of 2005. Depth-to-water measurements were collected from each well using an electronic water level indicator. The device was decontaminated between each well to minimize cross-contamination. Depth-to-water measurements were subtracted from their respective top-of-casing elevations to calculate ground water elevations referenced to Mean Sea Level (MSL) at each well. Monitoring well construction details are provided on Table 1. Ground water elevations for all 2005 sampling events are summarized on Table 2.

The depth-to-water measurements were used to calculate the volume of water within each well and determine the amount to be purged prior to sampling. Three well volumes were removed from each well or until the well became dry using a Redi-Flo electric pump. Dedicated polyethylene tubing was used for each well to minimize the potential for cross-contamination. Field parameters measured during the monitoring well purging and sampling process are recorded using information downloaded from a YSI Model 556 multi-meter equipped with an in-line flow cell. The information is recorded in tabular and graphical form to demonstrate when aquifer parameters have stabilized sufficiently prior to sampling. Field meters used to measure field data were calibrated each day during sampling. Ground water indicator parameter data (final readings only) are summarized on Table 3. Purge water was containerized for proper disposal.

Ground water samples were collected using new, clean, dedicated, disposable polyethylene bailers. Ground water samples were placed into laboratory-provided containers with the appropriate preservatives. The containers were packed in ice-chests and shipped to the laboratory under chain-of-custody.

3.3 LABORATORY ANALYSIS

Ground water samples were analyzed by Arkansas Analytical, Inc. in Little Rock, Arkansas. Arkansas Analytical is certified by the Arkansas Department of Environmental Quality. The analytical reports are provided in Appendix B.

Ground water samples were analyzed for the following constituents:

PARAMETER	ANALYTICAL METHOD January/May	ANALYTICAL METHOD October
Ammonia-N	EPA 350.3	EPA 350.3
Nitrate-N	SW-846 9056	EPA 300.0
Sulfate	SW-846 9056	Not Analyzed
Total Dissolved Solids (TDS)	EPA 160.1	Not Analyzed
Lead (Total and Dissolved)	SW-846 6010B	EPA 200.7
Chromium (Total and Dissolved)	SW-846 6010B	EPA 200.7
Vanadium (Total and Dissolved)	SW-846 6010B	EPA 200.7
Iron (Dissolved)	Not Analyzed	EPA 200.7
Manganese (Dissolved)	Not Analyzed	EPA 200.7
Phosphorus	Not Analyzed	EPA 200.7
Alkalinity	Not Analyzed	EPA 310.1
Total Organic Carbon	Not Analyzed	EPA 415.1
Nitrite	Not Analyzed	EPA 300.0

Field quality assurance/quality control (QA/QC) samples consisted of duplicate field samples, trip blanks and field blanks. Five (5) duplicate samples were collected during 2005 and analyzed for all parameters, yielding 46 duplicate analyses. Precision (relative percent difference or RPD) was calculated for all duplicate analyses. Thirty-four duplicates had both results as non-detect, yielding an RPD of 0%. Twelve duplicates had detections with RPD values ranging from 0 to 127%. Only two of the duplicate pairs had an RPD above 20%. In addition, six (6) field blanks and three (3) trip blanks were collected and analyzed in 2005. Only low levels of dissolved

solids (1 to 7 mg/L) and total organic carbon (1.61 to 2.55 mg/L) were detected in some field and trip blanks.

4.0 SAMPLING RESULTS

4.1 GROUND WATER FLOW

Ground water elevations from January (highest average site-wide ground water elevation during 2005) and October (lowest average site-wide ground water elevation during 2005) were used to construct the maps on Figures 2 and 3. The January ground water elevations were the highest recorded in 2005, ranging from 150.21 feet MSL in MW-EDC-19 (located east of Lake Kildeer) to 204.73 feet MSL in MW-EDC-1 (located northwest of the facility). The averaged October readings had the lowest elevations with values ranging from 145.21 feet MSL in MW-EDC-19 and 197.93 feet MSL in MW-EDC-1. Consistent with previous measurements, the ground water flow direction is from northwest to southeast with the exception of localized areas where shallow perched ground water likely exists.

4.2 GROUND WATER QUALITY

4.2.1 Field Parameters

Indicator parameter data are summarized on Table 3. In 2005, pH values ranged from 3.61 in MW-EDC-1 to 6.46 in MW-EDC-22. The readings are consistent throughout 2005 as well as with the previous measurements. Specific conductance values ranged from 47 (MW-EDC-1) to 10,881 (MW-EDC-8) microSiemens (μS) in 2005. Wells MW-EDC-4, MW-EDC-6, MW-EDC-7 and MW-EDC-8 consistently have the highest conductivity readings.

4.2.2 Analytical Results

The analytical results are summarized in Tables 4 through 26 and the laboratory reports are provided in Appendix B. A discussion of each constituent is provided below:

Ammonia

During the year 2005, ammonia concentrations ranged from below the detection limit (0.5 mg/L) to 323 mg/L (MW-EDC-7). MW-EDC-6, MW-EDC-7 and MW-EDC-8 exhibited the highest concentrations throughout the year. The January results had lowest average site-wide concentration (17.85 mg/L); whereas, the highest site-wide average occurred in May 2005 (21.48 mg/L). Fifteen of the twenty-two wells had a least one detection during 2005. An ammonia isoconcentration map (Figure 4) was developed for the May 2005 sampling period. As shown on the figure, the highest ammonia concentrations are located north of the acid and nitrate process areas known as the Production Area. There was also a detection on the north side of Lake Kildeer.

Trend graphs for ammonia are provided in Appendix A. As indicated on the graphs, most of the wells do not show a distinct increasing or decreasing trend. MW-EDC-4, MW-EDC-5, MW-EDC-10 and MW-EDC-17 may be showing signs of increasing concentrations. MW-EDC-6 is the only well clearly showing an increasing trend. Conversely, MW-EDC-8 data show a clear decreasing trend.

Nitrate

For the year 2005, nitrate concentrations ranged from below the detection limit (0.5 mg/L) to 1410 mg/L (MW-EDC-6). MW-EDC-6, MW-EDC-7 and MW-EDC-8 exhibited the highest concentrations throughout the year. The January results had lowest average site-wide concentration (93.95 mg/L); whereas, the highest site-wide average occurred in October 2005 (113.64 mg/L). Seventeen of the twenty-two wells had a least one detection during 2005. A nitrate isoconcentration map (Figure 5) was developed for the May 2005 sampling period. As shown on the figure, the highest nitrate concentrations are located north of the Production Area. There were also detections on the north and south sides of Lake Kildeer, and to the east in MW-EDC-21.

Trends graphs for nitrate are provided in Appendix A. As indicated on the graphs, most of the wells do not show a distinct increasing or decreasing trend. MW-EDC-6 is the only well clearly

showing an increasing trend. Conversely, MW-EDC-8, MW-EDC-15 and MW-EDC-16 data show distinct decreasing trends. MW-EDC-10 and MW-EDC-11 show slight decreasing trends.

Metals

Lead was detected in six wells during 2005. Detected concentrations ranged from 0.016 mg/L (MW-EDC-7) to 0.063 mg/L in MW-EDC-21. Chromium was detected in two wells during 2005. Detected concentrations ranged from 0.022 mg/L (MW-EDC-18) to 0.265 mg/L in MW-EDC-21. Vanadium was detected in two wells during 2005. Detected concentrations ranged from 0.03 mg/L to 0.099 mg/L in MW-EDC-18. A concentration of 0.092 mg/L was detected in MW-EDC-21.

Total Dissolved Solids and Sulfate

TDS and sulfate were collected in January and May of 2005 and have been removed from the monitoring program. TDS concentrations ranged from < 52 (MW-EDC-1) to 6700 mg/L (MW-EDC-6) during 2005. As with previous years, wells MW-EDC-4, MW-EDC-6 and MW-EDC-8 (located north of the Production Area) consistently have the highest TDS levels; whereas, MW-EDC-1, MW-EDC-15 and MW-EDC-21 have the lowest.

Analytical results show sulfate concentrations ranging from 2.88 mg/L (MW-EDC-21) to 1220 mg/L (MW-EDC-8) in 2005. Wells MW-EDC-4 and MW-EDC-8 typically have the highest concentrations; whereas, MW-EDC-1, MW-EDC-21 and MW-EDC-22 have the lowest.

In Situ Remediation Parameters

Samples were analyzed for alkalinity, nitrite, dissolved manganese, dissolved iron, total phosphorus and total organic carbon in October 2005. These results combined with data collected from a planned May 2006 sampling event will be used to evaluate in situ remediation of constituents of concern. The analytical results of these parameters are summarized on Table 26.

TABLES

TABLE 1
MONITORING WELL CONSTRUCTION DETAILS
2005 ANNUAL GROUND WATER REPORT
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

Monitoring Well ID	Completion Date	Well Depth (ft below top of casing)	Screened Interval (ft from top of casing)	Top of Casing Elevation (ft above MSL)
EDC-MW-1	2/14/1996	22.1	12.1 to 22.2	213.28
EDC-MW-2	2/14/1996	20.2	10.2 to 20.2	196.25
EDC-MW-3	2/15/1996	27.1	17.1 to 27.1	192.11
EDC-MW-4	2/15/1996	22.1	12.1 to 22.1	194.84
EDC-MW-5	2/21/1996	17.7	7.7 to 17.7	182.69
EDC-MW-6	2/21/1996	22.0	12 to 22	191.87
EDC-MW-7	2/20/1996	23.9	13.9 to 23.9	195.88
EDC-MW-8	2/20/1996	29.9	19.9 to 29.9	197.34
EDC-MW-9	2/15/1996	30.0	20 to 30	198.39
EDC-MW-10	2/19/1996	22.6	12.6 to 22.6	205.75
EDC-MW-11	2/19/1996	19.8	9.8 to 19.8	201.65
EDC-MW-12	2/19/1996	19.9	9.9 to 19.9	184.97
EDC-MW-13	2/14/1996	19.8	9.8 to 19.8	177.26
EDC-MW-14	2/13/1996	18.2	8.2 to 18.2	178.48
EDC-MW-15	2/13/1996	17.0	7 to 17	180.84
EDC-MW-16	2/12/1996	19.3	9.3 to 19.3	180.14
EDC-MW-17	2/13/1996	34.7	24.7 to 34.7	185.40
EDC-MW-18	2/22/1996	17.2	7.2 to 17.2	155.46
EDC-MW-19	1/11/2004	61.5	51.5 to 61.5	150.41
EDC-MW-20	1/7/2004	54.4	44.5 to 54.4	192.77
EDC-MW-21	1/6/2004	34.9	24.9 to 34.9	176.29
EDC-MW-22	1/21/2004	79.8	69.8 to 79.8	173.55

Notes:

1. EDC-MW-1 through EDC-MW-18 constructed of 4-inch Sch. 40 PVC flush threaded pipe with 4-inch diamater screens, 10-foot length and 0.01-inch openings, casing risers are approximately 3 feet above ground surface, drilled with hollow-stem auger (Data from Woodward-Clyde June 1996 Report)
2. EDC-MW-19, EDC-MW-20 and EDC-MW-22 constructed of 2-inch Sch. 40 PVC flush threaded pipe with 2-inch diamater screens, 10-foot length and 0.01-inch openings, casing risers are approximately 2.5 to 3 feet above ground surface, drilled with rotary wash procedures
2. EDC-MW-20 constructed of 1-inch Sch. 40 PVC flush threaded pipe with 1-inch diameter screen, 10-foot length and 0.01-inch opening, casing riser approximately 2.5 feet above ground surface, drilled with Geoprobe

TABLE 2
GROUNDWATER ELEVATION DATA
2005 ANNUAL GROUND WATER REPORT
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

Monitor Well	Top of Casing Elevation (ft above Mean Sea Level)	Measurement Date					
		1/24/2005 - 1/26/2005		5/23/2005 - 5/26/2005		10/17/2005 - 10/19/2005	
		Depth to Water (ft from top of casing)	Ground Water Elevation (ft above MSL)	Depth to Water (ft from top of casing)	Ground Water Elevation (ft above MSL)	Depth to Water (ft from top of casing)	Ground Water Elevation (ft above MSL)
MW-EDC-1	213.28	8.55	204.73	12.30	200.98	15.35	197.93
MW-EDC-2	196.25	0.00	196.25	0.00	196.25	2.05	194.20
MW-EDC-3	192.11	7.80	184.31	9.05	183.06	13.75	178.36
MW-EDC-4	194.84	8.50	186.34	9.10	185.74	10.75	184.09
MW-EDC-5	182.69	4.55	178.14	5.70	176.99	6.10	176.59
MW-EDC-6	191.87	4.50	187.37	4.75	187.12	5.30	186.57
MW-EDC-7	195.88	7.25	188.63	7.45	188.43	8.05	187.83
MW-EDC-8	197.34	7.05	190.29	7.30	190.04	8.10	189.24
MW-EDC-9	198.39	8.45	189.94	9.40	188.99	13.45	184.94
MW-EDC-10	205.75	10.90	194.85	12.65	193.10	15.40	190.35
MW-EDC-11	201.65	8.95	192.70	10.60	191.05	12.40	189.25
MW-EDC-12	184.97	6.70	178.27	7.30	177.67	7.85	177.12
MW-EDC-13	177.26	5.60	171.66	7.95	169.31	10.55	166.71
MW-EDC-14	178.48	7.65	170.83	6.55	171.93	11.25	167.23
MW-EDC-15	180.84	4.25	176.59	6.25	174.59	8.05	172.79
MW-EDC-16	180.14	5.05	175.09	9.20	170.94	7.75	172.39
MW-EDC-17	185.40	26.65	158.75	28.15	157.25	32.00	153.40
MW-EDC-18	155.46	5.25	150.21	7.15	148.31	9.35	146.11
MW-EDC-19	150.41	0.00	150.41	2.80	147.61	5.20	145.21
MW-EDC-20	192.77	24.80	167.97	24.85	167.92	30.30	162.47
MW-EDC-21	176.29	15.40	160.89	15.70	160.59	19.35	156.94
MW-EDC-22	173.55	5.20	168.35	6.20	167.35	9.25	164.30

TABLE 3
GROUNDWATER INDICATOR PARAMETER DATA
2005 ANNUAL GROUND WATER REPORT
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

WELL	TEMPERATURE (C)			pH (s.u.)			CONDUCTIVITY (uS)		
	Date			Date			Date		
	1/24/2005 - 1/26/2005	5/23/2005 - 5/26/2005	10/17/2005 - 10/20/2005	1/24/2005 - 1/26/2005	5/23/2005 - 5/26/2005	10/17/2005 - 10/20/2005	1/24/2005 - 1/26/2005	5/23/2005 - 5/26/2005	10/17/2005 - 10/20/2005
MW-EDC-1	14.8	18.6	20.3	5.43	5.73	3.61	72.6	51	47
MW-EDC-2	15.3	19.0	20.3	5.38	5.87	5.15	341	327	332
MW-EDC-3	16.2	18.1	20.6	6.33	6.05	6.04	271	202	230
MW-EDC-4	15.2	21.4	21.3	4.63	4.77	4.06	6540	6399	5716
MW-EDC-5	14.8	19.3	20.8	6.36	6.42	4.96	793	987	907
MW-EDC-6	16.8	19.7	20.6	5.36	4.57	4.43	6790	7939	9494
MW-EDC-7	15.3	22.9	20.7	4.08	4.21	3.9	4870	9339	6331
MW-EDC-8	16.6	22.6	19.4	4.09	6.12	4.03	10002	9868	10881
MW-EDC-9	16.5	19.8	19.3	5.57	5.77	5.64	1686	2047	1889
MW-EDC-10	16.8	22.0	22.0	4.63	4.93	4.3	1045	1156	808
MW-EDC-11	16.1	19.1	22.2	4.64	5.05	4.42	739	795	804
MW-EDC-12	19.5	22.4	24.0	5.91	5.96	5.3	551	651	614
MW-EDC-13	17.5	19.2	20.9	4.86	5.07	4.19	1145	610	892
MW-EDC-14	15.1	20.0	21.2	4.89	5.06	4.96	1057	350	922
MW-EDC-15	13.6	20.2	24.2	4.68	4.94	4.77	128.9	116	99
MW-EDC-16	14.4	20.7	23.9	4.54	4.62	4.66	406	1168	285
MW-EDC-17	15.0	23.0	20.6	4.54	4.86	5.74	504	720	438
MW-EDC-18	15.5	17.5	19.8	5.9	6.04	5.82	88.2	85	770
MW-EDC-19	18.2	18.6	18.3	5.82	5.88	6.27	115.8	106	101
MW-EDC-20	17.9	20.2	NM	6.02	6.03	NM	159.2	120	NM
MW-EDC-21	17.1	17.9	20.9	5.37	5.69	4.17	81.2	63	77
MW-EDC-22	17.2	19.6	18.7	5.79	6.46	6.21	141.7	131	124

NM - Not Measured due to equipment malfunction.

TABLE 4
EDC-MW-1 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-1

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/14/1996	9.7	--	1.7	4.1	--	0.0037	< 0.002	< 0.005	< 0.005	--	--
5/29/2001	5.1	< 0.5	1.83	3.67	42	< 0.04	--	< 0.02	--	--	--
11/1/2001	4.8	< 0.5	2.74	3.34	43	< 0.04	--	< 0.02	--	--	--
6/3/2002	5.5	< 0.5	2.01	4.66	83	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	5.6	0.66	1.56	4.63	44	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	6.1	< 0.5	1.8	6.73	108	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/20/2003	4.77	< 0.5	2.40	3.79	46	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/24/2003	7.10	< 0.5	2.55	5.05	59	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/24/2003	5.26	< 0.5	3.18	6.52	68	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	5.11	< 0.5	1.47	5.85	64	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	5.25	0.56	1.6	6.19	53	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	5.59	<0.5	2.73	4.22	56	<0.015	<0.015	<0.02	<0.02	--	--
5/18/2004	5.51	<0.5	4.79	6.57	35	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	6.16	<0.5	3.68	3.88	80	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	5.65	0.76	4.26	3.48	53	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	5.11	<0.5	3.81	3.9	58	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	5.43	<0.5	2.88	6.69	86	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/24/2005	5.73	0.55	2.45	4.39	52	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/24/2005	--	<0.5	2.39	4.43	52	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/18/2005	3.61	--	--	--	--	--	--	--	--	<0.02	<0.02
10/18/2005	--	--	--	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 5
EDC-MW-2 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-2

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/14/1996	9.7	--	< 0.2	17	--	0.018	< 0.002	0.0342	< 0.005	--	--
5/29/2001	5.4	< 0.5	< 0.5	19.6	340	< 0.04	--	0.032	--	--	--
11/1/2001	5.3	< 0.5	< 0.5	22.9	300	< 0.04	--	< 0.02	--	--	--
6/3/2002	6.0	< 0.5	< 0.5	20	396	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	6.1	< 0.5	< 0.5	25.7	517	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	6.7	< 0.5	< 0.5	24	305	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/20/2003	5.31	< 0.5	< 0.5	22.1	309	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/24/2003	7.26	< 0.5	< 0.5	22.9	370	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/24/2003	5.50	< 0.5	< 0.5	24.9	380	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	5.42	< 0.5	< 0.5	28.2	360	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	5.2	<0.5	<0.5	25.3	490	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	5.47	<0.5	<0.5	20.9	311	<0.015	<0.015	<0.02	<0.02	--	--
5/18/2004	5.4	<0.5	<0.5	24	298	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	5.68	<0.5	<0.5	22.4	330	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	5.44	<0.5	<0.5	24.3	340	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	6.12	<0.5	<0.5	21.5	320	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	5.38	<0.5	<0.5	20.8	300	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	--	<0.5	<0.5	20.5	300	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/24/2005	5.87	0.79	<0.5	22.9	290	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/18/2005	5.15	--	<0.5	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 6
EDC-MW-3 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-3

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/14/1996	8.0	--	< 0.2	10	--	0.0027	< 0.002	< 0.005	< 0.005	--	--
5/29/2001	6.2	< 0.5	< 0.5	10.6	180	< 0.04	--	< 0.02	--	--	--
11/1/2001	5.4	< 0.5	< 0.5	22.5	240	< 0.04	--	< 0.02	--	--	--
6/3/2002	6.4	< 0.5	< 0.5	11.4	228	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	6.5	< 0.5	< 0.5	21.6	295	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	6.0	< 0.5	< 0.5	16.4	242	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/20/2003	6.05	< 0.5	< 0.5	12.5	207	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/24/2003	6.23	< 0.5	< 0.5	11.8	210	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/24/2003	5.97	< 0.5	< 0.5	27.7	250	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	5.81	< 0.5	< 0.5	23.5	220	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	5.59	<0.5	<0.5	26.9	270	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	5.94	<0.5	<0.5	11.2	188	<0.015	<0.015	<0.02	<0.02	--	--
5/18/2004	5.86	<0.5	<0.5	9.75	176	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	5.92	<0.5	<0.5	13	260	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	5.74	<0.5	<0.5	18.3	220	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	5.96	<0.5	<0.5	18.8	260	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	6.33	<0.5	<0.5	15.8	240	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/24/2005	6.05	0.98	<0.5	11.8	200	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/18/2005	6.04	--	<0.5	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 7
EDC-MW-4 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-4

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/14/1996	8.1	--	1.3	728	--	0.0025	< 0.002	< 0.005	< 0.005	--	--
8/8/2001	4.1	0.66	< 0.5	925	5100	< 0.04	--	< 0.02	--	--	--
10/30/2001	4.3	< 0.5	< 0.5	936	5200	0.06	--	0.04	--	--	--
6/3/2002	5.2	< 0.5	< 0.5	979	4862	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	4.8	< 0.5	0.62	756	4240	0.02	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	4.4	< 0.5	2.4	976	5360	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/20/2003	4.33	< 0.5	< 0.5	936	4800	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/20/2003	--	< 0.5	< 0.5	1000	5150	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/24/2003	9.08	< 0.5	< 0.5	978	5300	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/24/2003	--	< 0.5	< 0.5	958	5400	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/24/2003	4.78	< 0.5	2.42	989	5200	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/24/2003	--	< 0.5	2.31	952	5200	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	4.13	< 0.5	2.05	848	5300	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	3.88	<0.5	6.39	1040	5200	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	4.1	<0.5	<0.5	919	5204	<0.015	<0.015	<0.02	<0.02	--	--
5/19/2004	4.05	<0.5	1.45	1040	5300	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	4.35	<0.5	<0.5	973	5500	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	4.44	0.68	<0.5	943	5200	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	4.26	<0.5	<0.5	874	4600	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	4.63	0.64	8.5	805	4700	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/24/2005	4.77	2.14	0.997	1020	4700	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/18/2005	4.06	--	0.517	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 8
EDC-MW-5 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-5

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/13/1996	5.8	--	4.4	441	--	< 0.002	< 0.002	< 0.005	< 0.005	--	--
8/8/2001	4.6	< 0.5	3.54	657	1000	< 0.04	--	< 0.02	--	--	--
10/30/2001	4.7	< 0.5	3.27	526	980	< 0.04	--	< 0.02	--	--	--
6/3/2002	6.3	< 0.5	3.35	650	934	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	5.4	< 0.5	3.66	582	929	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	5.2	< 0.5	3.26	489	901	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/20/2003	4.75	< 0.5	3.60	654	845	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/24/2003	6.85	< 0.5	3.47	546	950	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/24/2003	4.82	< 0.5	3.53	560	950	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	4.79	< 0.5	2.40	416	780	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	5.03	<0.5	3.19	476	740	<0.015	<0.015	<0.02	<0.02	--	--
1/28/2004	--	<0.5	3.07	482	730	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	5.13	<0.5	3.6	472	780	<0.015	<0.015	<0.02	<0.02	--	--
5/19/2004	5.85	<0.5	3.41	455	860	<0.015	<0.015	<0.02	<0.02	--	--
5/19/2004	--	<0.5	3.3	494	900	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	4.96	<0.5	3.75	511	910	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	6.7	0.59	3.75	515	700	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	5.28	<0.5	3.33	502	850	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	6.36	<0.5	3.18	461	870	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/24/2005	6.42	3.62	3.21	547	820	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/19/2005	4.96	--	--	--	--	--	--	--	--	<0.02	<0.02
10/19/2005	--	--	--	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 9
EDC-MW-6 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-6

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/13/1996	7.7	--	51.1	24	--	0.0026	< 0.002	< 0.005	< 0.005	--	--
8/8/2001	4.3	0.5	298	18.3	2100	< 0.04	--	< 0.02	--	--	--
10/30/2001	4.3	< 0.5	326	15.7	2700	< 0.04	--	< 0.02	--	--	--
6/3/2002	6.1	< 0.5	459	12.1	290	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	5.0	0.51	661	8.13	3840	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	4.6	< 0.5	580	7.15	3360	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	--	< 0.5	588	6.45	3280	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/21/2003	4.30	0.5	608	17.0	4020	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/24/2003	7.41	1.09	681	15.0	4600	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/24/2003	4.28	4.88	857	9.35	5100	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	4.53	5.72	865	10.7	4700	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	--	5.60	866	9.21	4900	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	4.36	12.3	835	17.2	5300	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	4.4	13	826	17.2	5106	<0.015	<0.015	<0.02	<0.02	--	--
5/19/2004	5.04	21.4	915	13.4	5800	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	4.74	17.9	995	11.7	6100	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	--	17.5	868	11.7	6200	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	5.51	20	1130	3.84	6300	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	4.59	37.6	1140	4.4	7100	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	5.36	43.1	1130	3.14	6600	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/24/2005	4.57	68.2	1410	5.19	6700	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/18/2005	4.43	110	1350	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 10
EDC-MW-7 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-7

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/13/1996	8.1	--	282	380	--	0.0221	0.0185	0.0078	< 0.005	--	--
8/8/2001	9.7	184	336	316	1300	< 0.04	--	< 0.02	--	--	--
10/30/2001	3.5	< 0.5	189	322	1056	< 0.04	--	< 0.02	--	--	--
10/30/2001	--	< 0.5	186	325	1100	< 0.04	--	< 0.02	< 0.02	--	--
6/3/2002	4.4	190	361	363	1324	0.031	< 0.015	< 0.02	< 0.02	--	--
6/3/2002	--	205	358	360	1386	0.027	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	4.2	167	294	345	1080	0.017	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	3.7	180	344	275	1316	< 0.015	0.016	< 0.02	< 0.02	--	--
12/10/2002	--	149	349	276	1350	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/21/2003	3.66	244	563	298	1850	0.02	0.017	< 0.02	< 0.02	--	--
7/24/2003	7.05	95.1	141	378	1400	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/24/2003	3.84	116	953	341	1700	0.02	0.018	< 0.02	< 0.02	--	--
11/19/2003	4.03	124	152	476	1500	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	3.99	147	300	644	1300	0.018	<0.015	<0.02	<0.02	--	--
3/16/2004	3.98	190	310	496	1280	0.018	0.017	<0.02	<0.02	--	--
5/19/2004	3.95	204	337	524	1500	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	3.99	73.4	150	498	1600	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	4.45	26.5	75.5	142	1000	<0.015	<0.015	<0.02	<0.02	<0.02	--
9/14/2004	--	25.9	76	143	990	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	3.97	219	370	428	1700	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	4.08	281	480	312	1700	0.016	<0.015	<0.02	<0.02	<0.02	<0.02
5/24/2005	4.21	323	595	349	1400	0.022	0.017	<0.02	<0.02	<0.02	<0.02
10/18/2005	3.9	14.3	91.6	--	--	<0.015	<0.015	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 11
EDC-MW-8 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-8

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/13/1996	7.9	--	1010	68.3	--	0.0234	0.0238	< 0.005	< 0.005	--	--
10/30/2001	3.9	0.94	1030	81.1	5000	< 0.04	--	< 0.02	--	--	--
6/3/2002	5.4	551	1070	77.8	4246	< 0.02	< 0.02	< 0.02	< 0.02	--	--
6/3/2002	--	551	1200	70.4	4378	0.031	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	4.4	406	1330	151	4560	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	4.0	220	1080	46.2	5120	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	--	261	1030	47.6	5140	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/21/2003	3.99	214	1250	209	4200	0.019	0.019	< 0.02	< 0.02	--	--
5/21/2003	--	167	1270	162	4010	0.019	0.019	< 0.02	< 0.02	--	--
7/24/2003	6.04	179	472	904	3700	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/24/2003	--	177	478	913	3700	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/23/2003	3.93	157.5	524	870	3400	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/23/2003	--	153	539	899	3400	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	4.99	206	464	738	3200	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	4.29	45.7	142	854	1800	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	4.18	88	203	805	2221	<0.015	<0.015	<0.02	<0.02	--	--
5/19/2004	4.07	120	298	789	2500	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	4.48	120	354	767	2600	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	3.99	107	392	743	2400	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	4.01	82.1	304	808	2800	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	4.09	48.9	126	1200	2700	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/24/2005	6.12	79.6	225	1220	2700	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/18/2005	4.03	84.8	246	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 12
EDC-MW-9 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-9

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/14/1996	9	--	37.3	621	--	0.004	< 0.002	< 0.005	< 0.005	--	--
6/27/2001	5.4	< 0.5	28.8	520	1600	< 0.04	--	< 0.02	--	--	--
10/30/2001	5.5	< 0.5	26.7	514	2600	< 0.04	--	< 0.02	--	--	--
6/3/2002	6	< 0.5	24.4	639	1597	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	6	18.8	59	655	1630	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	5.2	0.7	28.1	556	1680	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	--	< 0.5	31.5	555	1640	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/21/2003	5.33	< 0.5	26.3	568	1600	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/24/2003	7.05	< 0.5	28.4	547	1500	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/23/2003	5.24	< 0.5	146	531	1500	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	5.72	< 0.5	28.0	532	1600	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	5.53	<0.5	29.2	575	1500	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	5.88	<0.5	30.6	528	1524	<0.015	<0.015	<0.02	<0.02	--	--
5/19/2004	5.47	<0.5	27.4	517	1600	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	6.87	<0.5	24.6	588	1600	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	5.04	1.14	25.3	548	1500	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	5.67	0.7	24	549	580	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	5.57	<0.5	26.3	518	1600	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/24/2005	5.77	<0.5	27.4	600	1600	0.018	<0.015	<0.02	<0.02	<0.02	<0.02
10/18/2005	5.64	--	29.9	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 13
EDC-MW-10 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-10

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/13/1996	7.7	--	257	89	--	0.0052	0.0039	< 0.005	< 0.005	--	--
6/27/2001	4.4	< 0.5	156	100	1300	< 0.04	--	0.025	--	--	--
10/30/2001	3.9	< 0.5	153	134	1400	< 0.04	--	0.04	--	--	--
6/3/2002	5.3	< 0.5	138	84.9	1122	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	5.6	1.84	137	140	968	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	4.5	< 0.5	70.4	52.2	1120	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/21/2003	4.08	< 0.5	148	96.0	1140	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/24/2003	5.56	< 0.5	118	108	1000	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/23/2003	4.18	< 0.5	147	127	1000	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	4.38	< 0.5	119	104	970	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	4.6	<0.5	126	129	1000	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	5.01	<0.5	135	128	1078	<0.015	<0.015	<0.02	<0.02	--	--
5/18/2004	5.07	<0.5	123	139	1055	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	4.54	<0.5	114	112	920	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	4.7	0.77	123	137	1000	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	4.79	<0.5	94.4	71.1	800	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	4.63	<0.5	115	114	1000	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/25/2005	4.93	1.45	120	142	990	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/18/2005	4.3	--	97.7	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 14
EDC-MW-11 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-11

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/13/1996	11.1	--	22.1	578	--	< 0.002	< 0.002	< 0.005	< 0.005	--	--
8/8/2001	4.3	4.21	7.99	611	1100	< 0.04	--	< 0.02	--	--	--
10/30/2001	4	< 0.5	21.9	334	610	< 0.04	--	< 0.02	--	--	--
6/3/2002	5.4	< 0.5	6.46	565	897	< 0.02	< 0.02	< 0.02	< 0.02	--	--
6/3/2002	--	3.9	5.81	586	968	< 0.02	< 0.015	< 0.02	< 0.02	--	--
10/30/2002	4.8	18	9.22	362	625	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	4.5	10.73	6.12	414	809	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/21/2003	4.45	7.84	6.02	333	576	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/24/2003	6.66	25.6	6.68	278	540	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/23/2003	4.29	5.25	4.24	397	660	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	4.61	12.0	6.26	289	570	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	--	14.3	6.85	276	340	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	5.04	19.6	6.72	303	520	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	5	15	9.63	262	511	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	--	18	8.79	278	535	<0.015	<0.015	<0.02	<0.02	--	--
5/18/2004	5.17	19.9	13.5	228	452	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	4.53	17.4	13.6	222	480	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	4.61	14.5	9.85	247	480	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/17/2004	4.86	19.1	11.1	209	450	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	4.64	--	--	--	--	--	--	--	--	--	--
5/25/2005	5.05	20.6	1.12	3.58	410	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/18/2005	4.42	10.6	2.02	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 15
EDC-MW-12 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-12

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/13/1996	6.1	--	< 0.2	9.6	--	< 0.002	< 0.002	< 0.005	< 0.005	--	--
6/27/2001	5.9	2.2	< 0.5	13	330	< 0.04	--	< 0.02	--	--	--
6/4/2002	6	0.9	< 0.5	4.85	510	< 0.02	< 0.02	< 0.02	< 0.02	--	--
6/4/2002	--	1.4	< 0.5	6.01	500	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	6.1	4.2	< 0.5	21.6	382	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	5.8	2.3	< 0.5	12.5	424	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/21/2003	5.71	1.89	< 0.5	5.31	307	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/24/2003	4.76	1.74	< 0.5	18.7	380	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/24/2003	5.45	1.43	< 0.5	26	440	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	5.79	1.83	< 0.5	30.6	460	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	6.44	1.87	<0.5	6.76	320	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	5.96	2.2	<0.5	4.04	252	<0.015	<0.015	<0.02	<0.02	--	--
5/19/2004	5.8	1.94	<0.5	5.11	360	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	6.78	1.2	<0.5	7.18	220	<0.015	<0.015	<0.02	<0.02	--	--
9/15/2004	5.8	2.38	<0.5	23	440	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	5.73	1.55	<0.5	18.5	340	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/26/2005	5.91	1.98	<0.5	4.88	360	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/25/2005	5.96	1.02	<0.5	11.2	370	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/20/2005	5.3	1.06	--	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 16
EDC-MW-13 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-13

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/13/1996	5.6	--	0.2	809	--	< 0.002	< 0.002	< 0.005	< 0.005	--	--
6/5/2001	5.6	< 0.5	< 0.5	538	1400	< 0.04	--	< 0.02	--	--	--
10/30/2001	5.3	< 0.5	< 0.5	606	1300	< 0.04	--	< 0.02	--	--	--
6/4/2002	5.7	< 0.5	< 0.5	372	718	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	6.1	1.28	< 0.5	538	1030	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	5.5	< 0.5	< 0.5	598	1320	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/20/2003	5.51	< 0.5	< 0.5	697	1330	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/23/2003	6.05	< 0.5	< 0.5	358	820	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/24/2003	4.70	0.71	< 0.5	458	920	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	4.91	< 0.5	0.62	310	680	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	5.02	<0.5	<0.5	565	1100	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	5.19	<0.5	<0.5	550	1175	<0.015	<0.015	<0.02	<0.02	--	--
5/18/2004	5.27	<0.5	<0.5	296	647	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	6.02	<0.5	<0.5	510	1100	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	5.03	0.5	<0.5	416	940	<0.015	<0.015	<0.02	<0.02	<0.02	--
9/14/2004	--	0.51	<0.5	425	960	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	4.83	<0.5	<0.5	250	1500	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/26/2005	4.86	<0.5	0.72	564	1200	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/25/2005	5.07	0.54	<0.5	302	580	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/19/2005	4.19	--	--	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 17
EDC-MW-14 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-14

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/13/1996	4.6	--	11.9	139	--	< 0.002	< 0.002	< 0.005	< 0.005	--	--
8/8/2001	4.3	< 0.5	75	175	1000	< 0.04	--	< 0.02	--	--	--
10/30/2001	4.5	< 0.5	25.2	211	790	< 0.04	--	< 0.02	--	--	--
6/4/2002	5.6	< 0.5	26.5	187	675	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	6.3	5.32	17	288	669	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	5.3	< 0.5	23.4	230	709	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/20/2003	4.85	< 0.5	44.9	227	865	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/23/2003	4.62	< 0.5	23.1	221	750	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/23/2003	5.00	< 0.5	20.3	275	700	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	4.92	< 0.5	16.1	227	740	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	5.19	<0.5	24.5	262	710	0.028	<0.015	0.022	<0.02	--	--
3/16/2004	5.34	<0.5	33.4	211	792	<0.015	<0.015	<0.02	<0.02	--	--
5/18/2004	5.23	<0.5	32.6	234	784	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	5.05	<0.5	45.7	226	820	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	--	<0.5	47.3	234	840	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	4.72	<0.5	57.7	232	900	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	4.88	<0.5	21.7	168	660	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/26/2005	4.89	<0.5	62.4	204	930	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/25/2005	5.06	<0.5	31	204	700	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/19/2005	4.96	--	36	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 18
EDC-MW-15 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-15

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/13/1996	6.4	--	34.5	4.4	--	< 0.002	< 0.002	< 0.005	< 0.005	--	--
8/8/2001	4.3	< 0.5	19.1	7.8	140	< 0.04	--	< 0.02	--	--	--
10/30/2001	4.3	< 0.5	12.6	10.2	110	< 0.04	--	< 0.02	--	--	--
6/4/2002	5.4	< 0.5	10.7	11.1	100	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	5.4	1.16	18.2	9.22	120	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	5.8	0.5	12.2	10.8	120	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/20/2003	4.75	< 0.5	9.45	13	66	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/23/2003	4.77	< 0.5	7.63	12.8	100	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/23/2003	4.49	< 0.5	9.62	11.8	180	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	4.89	< 0.5	9.81	12.6	100	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	5.56	3.96	4.52	18.6	81	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	5.68	<0.5	7.66	13.9	97	<0.015	<0.015	<0.02	<0.02	--	--
5/18/2004	5.75	<0.5	6.82	15.2	83	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	5.39	<0.5	9.52	11	110	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	4.67	0.61	8.22	13.2	100	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	4.92	<0.5	7.42	11.8	110	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	4.68	<0.5	7.62	11.8	110	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/25/2005	4.94	<0.5	5.79	16.1	79	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/19/2005	4.77	--	5.63	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 19
EDC-MW-16 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-16

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/13/1996	5.7	--	137	4.6	--	0.0036	0.0034	< 0.005	< 0.005	--	--
6/5/2001	4.3	4.61	134	5.09	1100	< 0.04	--	< 0.02	--	--	--
10/30/2001	3.9	< 0.5	58.4	6.44	330	< 0.04	--	< 0.02	--	--	--
6/4/2002	5.0	6.2	72.5	7.19	396	< 0.02	< 0.02	< 0.02	< 0.02	--	--
6/4/2002	--	5.0	72.6	6.82	404	< 0.02	< 0.015	< 0.02	< 0.02	--	--
10/30/2002	5.0	11.6	72	9.21	263	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	5.9	2.99	89.4	5.64	595	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/20/2003	4.42	3.69	90.8	6.55	555	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/23/2003	4.81	6.45	72.3	7.15	430	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/23/2003	4.31	5.97	72.8	7.09	400	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	4.99	8.61	44.3	9.78	230	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	5.61	5.66	59	9.84	280	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	5.83	8.39	34.8	11.2	180	<0.015	<0.015	<0.02	<0.02	--	--
5/18/2004	5.95	10.4	31.9	13.3	167	<0.015	<0.015	<0.02	<0.02	--	--
5/18/2004	--	11.5	31.5	13.8	135	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	5.5	9.35	40.2	7.7	160	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	4.49	8.57	47.1	7.83	190	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	5.08	6.49	38.2	8.11	310	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
11/16/2004	--	6.87	38.3	8.02	270	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/25/2005	4.54	4.15	43.1	8.13	310	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/25/2005	4.62	7.62	26.8	10.2	110	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/19/2005	4.66	6.28	17	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 20
EDC-MW-17 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-17

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/13/1996	4.9	--	45	145	--	< 0.002	< 0.002	< 0.005	< 0.005	--	--
6/5/2001	4.4	1.16	54.2	87.7	600	< 0.04	--	< 0.02	--	--	--
10/30/2001	4.1	< 0.5	106	11.5	760	< 0.04	--	< 0.02	--	--	--
6/4/2002	5.1	< 0.5	83.4	8.04	603	< 0.02	< 0.02	< 0.02	< 0.02	--	--
10/30/2002	5.1	2.36	92	9.53	540	< 0.015	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	5.6	1.22	101	28.2	751	< 0.015	< 0.015	< 0.02	< 0.02	--	--
5/20/2003	4.54	< 0.5	83.6	17.1	603	< 0.015	< 0.015	< 0.02	< 0.02	--	--
7/23/2003	4.74	0.58	74.7	9.31	548	< 0.015	< 0.015	< 0.02	< 0.02	--	--
9/23/2003	5.25	< 0.5	64.3	6.98	400	< 0.015	< 0.015	< 0.02	< 0.02	--	--
11/19/2003	5.28	0.55	77.3	11.8	530	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	6.54	<0.5	81.3	42.8	560	<0.015	<0.015	<0.02	<0.02	--	--
3/16/2004	6.62	8.14	129	64	983	<0.015	<0.015	<0.02	<0.02	--	--
5/18/2004	6.73	8.05	134	60.1	944	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	6.57	<0.5	67.6	6.54	460	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	4.4	1.42	78.4	3.14	570	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	5.41	9.55	219	54.8	1800	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/26/2005	4.54	1.79	53.3	12.2	360	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/25/2005	4.86	<0.5	56.4	19.1	390	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/25/2005		<0.5	58.4	4.27	440	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/20/2005	5.74	0.67	48.9	--	--	--	--	--	--	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 21
EDC-MW-18 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-18

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
3/14/1996	6.6	--	0.4	3.3	--	0.017	< 0.002	0.0194	< 0.005	--	--
10/30/2001	5.4	< 0.5	< 0.5	3.74	300	< 0.04	--	0.05	--	--	--
6/4/2002	6.2	< 0.5	< 0.5	8.38	796	0.115	< 0.02	0.147	0.137	--	--
10/30/2002	6.3	0.43	< 0.5	3.22	258	0.018	< 0.015	< 0.02	< 0.02	--	--
12/10/2002	6.4	< 0.5	< 0.5	5.01	495	< 0.015	< 0.015	0.02	< 0.02	--	--
5/21/2003	6.01	0.59	< 0.5	7.08	786	0.029	< 0.015	0.02	< 0.02	--	--
7/23/2003	5.38	< 0.5	113	115	2000	0.029	< 0.015	0.047	< 0.02	--	--
9/24/2003	5.54	5.79	< 0.5	3.81	590	0.025	< 0.015	0.036	0.026	--	--
11/19/2003	5.90	< 0.5	< 0.5	9.68	300	< 0.015	< 0.015	< 0.02	< 0.02	--	--
1/28/2004	6.17	--	--	--	--	--	--	--	--	--	--
3/16/2004	6.4	<0.5	<0.5	7.01	666	0.021	<0.015	0.027	0.021	--	--
5/19/2004	6.43	<0.5	<0.5	5.63	720	0.063	<0.015	0.088	<0.02	--	--
7/13/2004	6.05	<0.5	<0.5	5.68	1100	0.033	<0.015	0.043	<0.02	--	--
9/15/2004	5.89	0.56	<0.5	3.88	1200	0.109	0.038	0.12	0.05	0.213	--
11/17/2004	5.96	<0.5	<0.5	4.61	1100	<0.015	<0.015	0.027	<0.02	0.045	<0.02
11/17/2004	--	<0.5	<0.5	4.85	1100	0.03	<0.015	0.043	<0.02	0.079	<0.02
1/26/2005	5.9	<0.5	<0.5	5.13	1000	0.056	<0.015	0.055	0.022	0.099	0.031
5/25/2005	6.04	<0.5	<0.5	5.18	700	0.018	<0.015	0.032	<0.02	0.048	0.03
10/19/2005	5.82	--	--	--	--	<0.015	<0.015	<0.02	0.052	<0.02	0.081

"--" - Parameter not analyzed

TABLE 22
EDC-MW-19 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-19

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
1/28/2004	6.73	0.64	<0.5	8.32	1400	0.122	0.045	0.077	0.077	--	--
3/16/2004	6.49	<0.5	<0.5	6.38	238	0.019	<0.015	<0.02	<0.02	--	--
3/16/2004	--	<0.5	<0.5	7.63	164	0.021	<0.015	<0.02	<0.02	--	--
5/19/2004	6.19	<0.5	<0.5	9.05	220	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	6.37	<0.5	<0.5	6.85	180	<0.015	<0.015	<0.02	<0.02	--	--
9/15/2004	6.23	0.54	<0.5	4.11	120	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/17/2004	6.02	<0.5	<0.5	4.63	130	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/26/2005	5.82	<0.5	<0.5	3.67	100	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/25/2005	5.88	<0.5	<0.5	4.56	120	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/19/2005	6.27	<0.5	<0.5	--	--	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 23
EDC-MW-20 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-20

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
1/28/2004	5.93	<0.5	<0.5	11.4	730	0.024	<0.015	0.034	<0.02	--	--
3/16/2004	6.51	<0.5	<0.5	15.9	186	<0.015	<0.015	<0.02	<0.02	--	--
5/19/2004	6.23	<0.5	<0.5	10.6	140	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	5.8	<0.5	<0.5	17.2	130	<0.015	<0.015	<0.02	<0.02	--	--
9/15/2004	5.61	0.86	<0.5	17.2	120	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/17/2004	5.36	<0.5	<0.5	13.5	160	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/26/2005	6.02	<0.5	<0.5	13.8	160	0.017	<0.015	<0.02	<0.02	<0.02	<0.02
5/26/2005	6.03	<0.5	1.86	7.72	85	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/20/2005	--	<0.5	<0.5	--	--	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 24
EDC-MW-21 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-21

Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
1/28/2004	5.56	<0.5	1.63	8.17	82	0.169	<0.015	0.837	<0.02	--	--
3/16/2004	6.34	<0.5	0.54	3.62	130	<0.015	<0.015	0.028	<0.02	--	--
5/19/2004	6.75	<0.5	2.15	4.59	110	0.029	<0.015	0.07	<0.02	--	--
7/13/2004	6.39	<0.5	2.5	3.74	103	0.032	<0.015	0.056	<0.02	--	--
9/15/2004	5.47	0.81	4.65	4.15	150	<0.015	<0.015	0.029	<0.02	<0.02	--
11/17/2004	5.96	<0.5	2.97	3.14	110	<0.015	<0.015	0.047	<0.02	<0.02	<0.02
1/26/2005	5.37	4.06	3.23	2.88	77	0.02	<0.015	0.044	<0.02	<0.02	<0.02
5/26/2005	5.69	<0.5	3.17	3.64	76	0.063	<0.015	0.265	<0.02	0.092	<0.02
10/20/2005	4.17	<0.5	4.16	--	--	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02

"--" - Parameter not analyzed

TABLE 25
EDC-MW-22 ANALYTICAL SUMMARY
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

EDC-MW-22

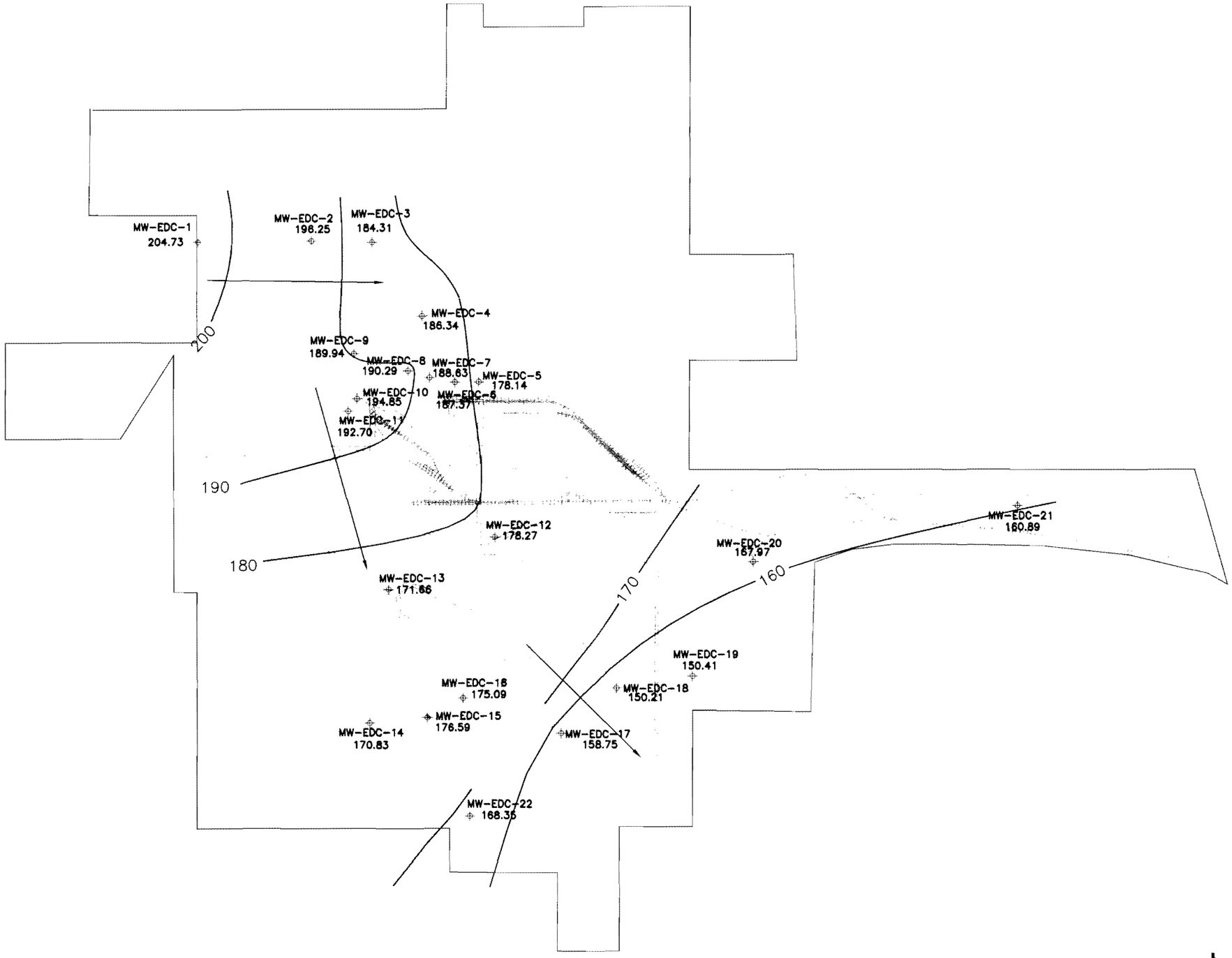
Sample Date	pH	Ammonia-N	Nitrate-N	Sulfate	Total Dissolved Solids	Lead (Total)	Lead (Dissolved)	Chromium (Total)	Chromium (Dissolved)	Vanadium (Total)	Vanadium (Dissolved)
	s.u.	mg/L									
1/28/2004	7.68	0.61	0.53	6.62	540	0.021	<0.015	0.021	<0.02	--	--
1/28/2004	--	<0.5	0.52	6.62	610	0.021	<0.015	0.023	<0.02	--	--
3/16/2004	6.65	<0.5	0.66	2.88	<1	<0.015	<0.015	<0.02	<0.02	--	--
5/18/2004	6.76	<0.5	0.95	3.74	136	<0.015	<0.015	<0.02	<0.02	--	--
7/13/2004	6.74	<0.5	<0.5	3.8	140	<0.015	<0.015	<0.02	<0.02	--	--
9/14/2004	5.84	0.7	<0.5	2.94	170	<0.015	<0.015	<0.02	<0.02	<0.02	--
11/16/2004	6.95	<0.5	<0.5	2.51	180	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
1/26/2005	5.79	<0.5	1.09	3.56	140	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
5/25/2005	6.46	<0.5	1.12	3.61	130	<0.015	<0.015	<0.02	<0.02	<0.02	<0.02
10/19/2005	6.21	<0.5	<0.5	--	--	0.056	<0.015	<0.02	<0.02	<0.02	<0.02

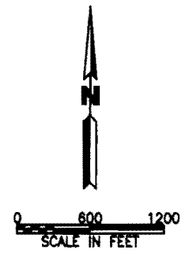
TABLE 26
IN SITU REMEDIATION PARAMETERS SUMMARY
EL DORADO CHEMICAL COMPANY

Well	Sample Date	Dissolved Oxygen (mg/L)	Redox (mV)	Alkalinity (mg/L)	Iron - Dissolved (mg/L)	Manganese - Dissolved (mg/L)	Nitrite (mg/L)	Phosporous (mg/L)	Total Organic Carbon (mg/L)
ECMW-1	10/18/2005	3.05	202.7	<5	<0.01	<0.01	<0.5	<0.02	1.33
ECMW-1 D	10/18/2005			<5	<0.01	<0.01	<0.5	<0.02	<1
ECMW-2	10/18/2005	3.89	116.5	21	<0.01	0.012	<0.5	0.041	2.98
ECMW-3	10/18/2005	4.57	66.7	61	0.085	0.046	<0.5	0.19	7.48
ECMW-4	10/18/2005	4.89	178	<5	0.665	1.66	<0.5	<0.02	32.3
ECMW-5	10/19/2005	7.04	127.1	<5	<0.01	2.19	<0.5	<0.02	2.61
ECMW-5 D	10/19/2005			<5	<0.01	2.35	<0.5	<0.02	2.86
ECMW-6	10/18/2005	4.04	156.7	<5	0.011	2.88	<0.5	<0.02	1.93
ECMW-7	10/18/2005	4.58	186.5	<5	0.078	0.096	<0.5	0.082	16.8
ECMW-8	10/18/2005	6.56	178.4	49	<0.01	0.515	<0.5	<0.02	12.3
ECMW-9	10/18/2005	3.81	88.8	23	<0.01	0.32	<0.5	0.247	20
ECMW-10	10/18/2005	3.73	164.7	<5	<0.01	0.152	<0.5	<0.02	5.87
ECMW-11	10/18/2005	5.25	158.3	<5	0.036	0.022	<0.5	<0.02	13.3
ECMW-12	10/20/2005	8.88	101.3	128	8.45	0.195	<0.5	0.063	19.7
ECMW-13	10/19/2005	3.13	170.4	<5	0.032	2.78	<0.5	<0.02	7.94
ECMW-14	10/19/2005	3.82	127.3	<5	<0.01	0.071	<0.5	<0.02	32.2
ECMW-15	10/19/2005	4.02	184	<5	<0.01	0.029	<0.5	<0.02	2.37
ECMW-16	10/19/2005	3.96	145.5	<5	0.014	0.14	<0.5	<0.02	3.45
ECMW-17	10/20/2005	NM	NM	<5	<0.01	0.145	<0.5	0.022	2.72
ECMW-18	10/19/2005	2.83	78.8	16	23.8	0.073	<0.5	0.178	1.75
ECMW-19	10/19/2005	2.83	53.5	36	0.649	0.085	<0.5	0.128	3.46
ECMW-20	10/20/2005	NM	NM	66	0.013	0.215	<0.5	<0.02	2.49
ECMW-21	10/20/2005	4.1	171.8	<5	0.07	0.09	<0.5	0.022	1.65
ECMW-22	10/19/2005	3.36	39.4	55	<0.01	0.161	<0.5	0.098	2.24

NM - Not Measured due to equipment malfunction.

FIGURES





LEGEND

MW-EDC-4 186.89 Monitor Well with Water Elevation (feet MSL)

Ground Water Flow Direction

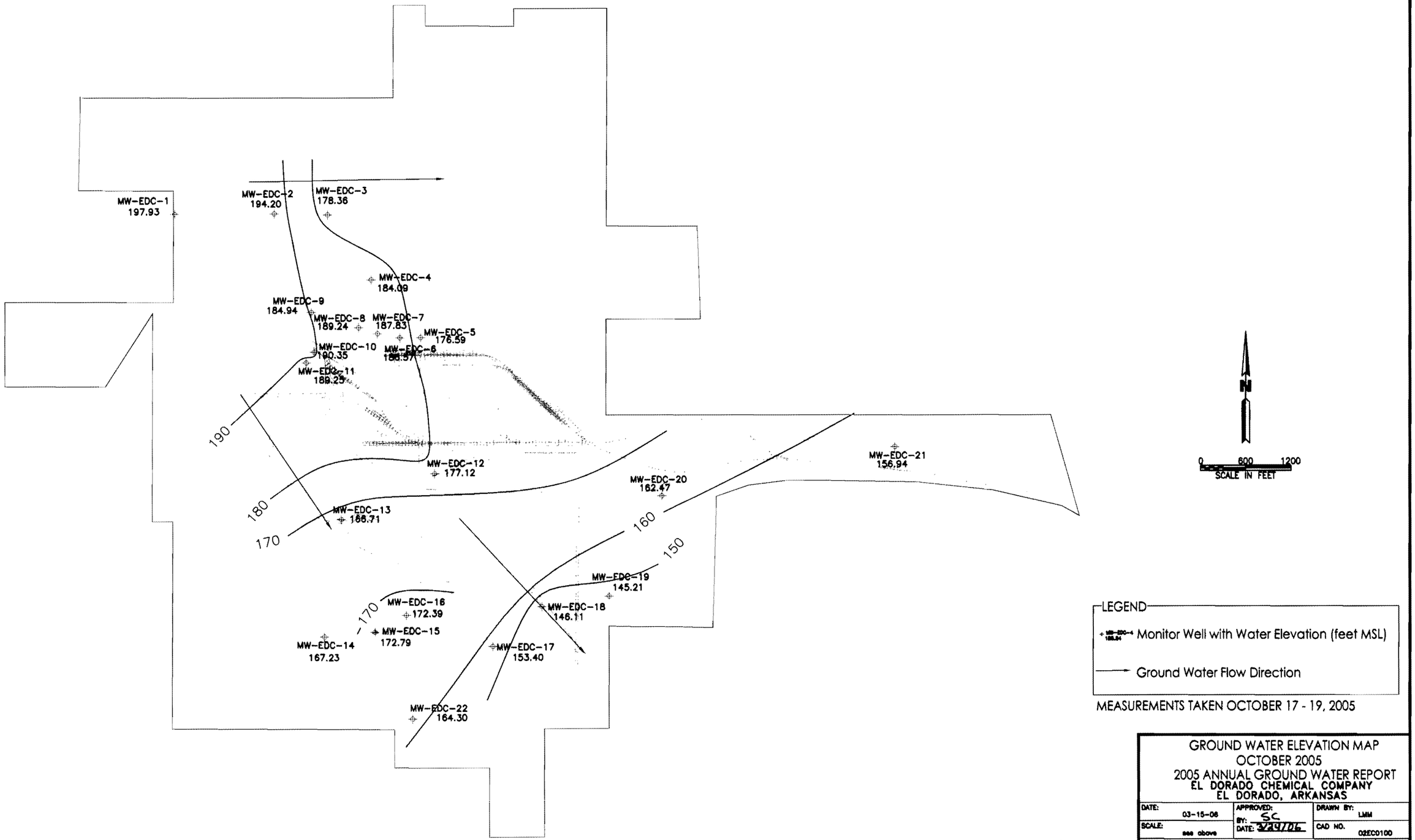
MEASUREMENTS TAKEN JANUARY 24 - 26, 2005

GROUND WATER ELEVATION MAP
JANUARY 2005
2005 ANNUAL GROUND WATER REPORT
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

DATE: 03-14-06	APPROVED: BY: SC DATE: 3/24/06	DRAWN BY: LMM	
SCALE: see above		CAD NO. 02EC0100	

ENVIRONMENTAL MANAGEMENT SERVICES, INC.

FIGURE 2



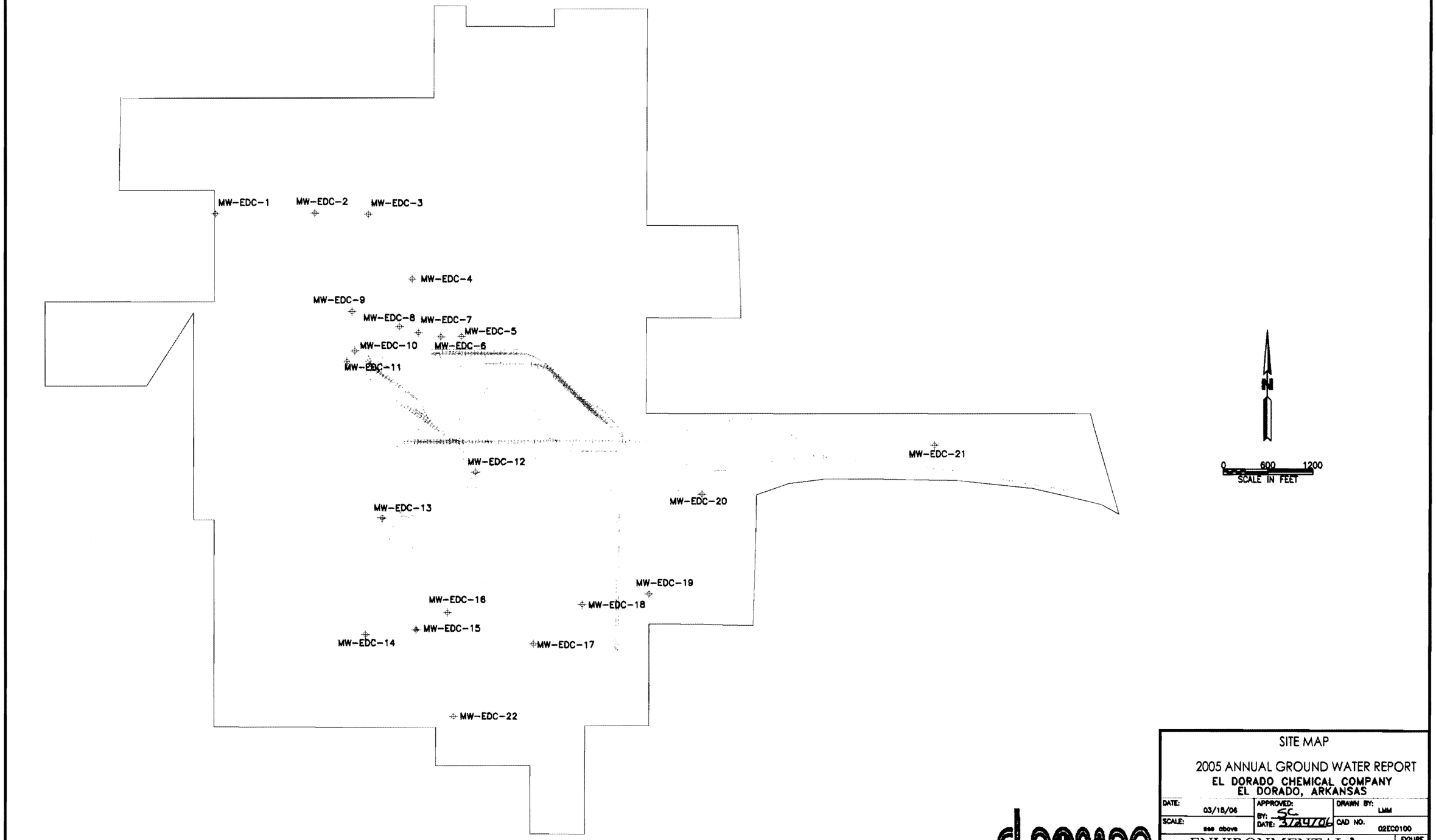
GROUND WATER ELEVATION MAP
OCTOBER 2005
2005 ANNUAL GROUND WATER REPORT
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

DATE: 03-15-06	APPROVED: BY: SC DATE: 3/29/06	DRAWN BY: LMM	
SCALE: see above		CAD NO. 02EC0100	

EL DORADO

ENVIRONMENTAL MANAGEMENT SERVICES, INC.

FIGURE 3



SITE MAP

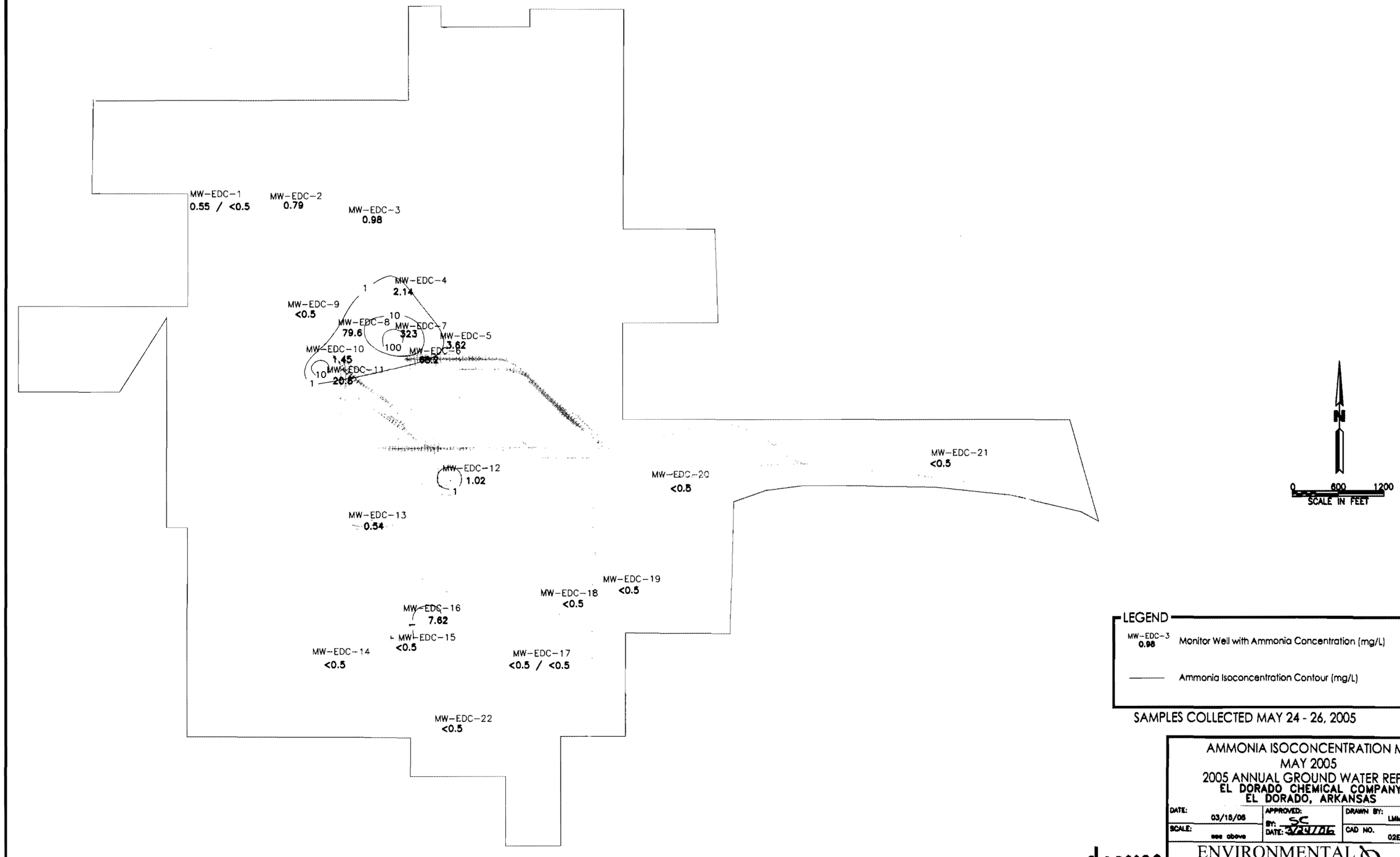
2005 ANNUAL GROUND WATER REPORT

EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

DATE: 03/15/06	APPROVED: BY: SC DATE: 3/24/06	DRAWN BY: LMM	
SCALE: see above		CAD NO. 02EC0100	FIGURE 1

EL DORADO

ENVIRONMENTAL MANAGEMENT SERVICES, INC.



LEGEND

MW-EDC-3 0.98 — Monitor Well with Ammonia Concentration (mg/L)

——— Ammonia Isoconcentration Contour (mg/L)

SAMPLES COLLECTED MAY 24 - 26, 2005

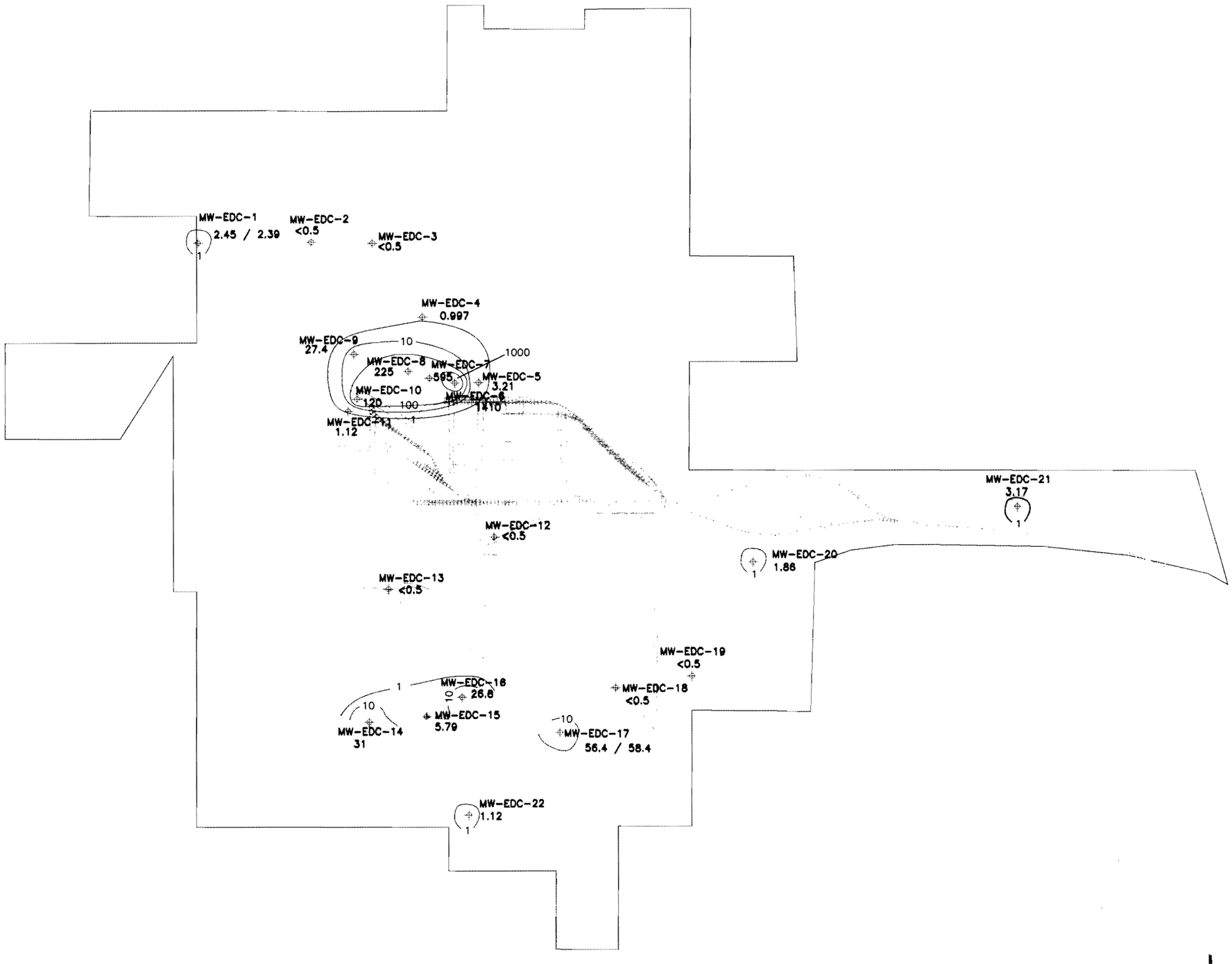
AMMONIA ISOCONCENTRATION MAP
MAY 2005
2005 ANNUAL GROUND WATER REPORT
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

DATE: 03/15/06	APPROVED: BY: SC DATE: 3/24/06	DRAWN BY: LMM	
SCALE: see above		CAD NO. 02EC0100	

ENVIRONMENTAL MANAGEMENT SERVICES, INC.

FIGURE 4

EL DORADO



LEGEND

MW-EDC-3 <0.5 — Monitor Well with Nitrate Concentration (mg/L)

——— Nitrate Isoconcentration Contour (mg/L)

SAMPLES COLLECTED MAY 24 - 26, 2005

NITRATE ISOCONCENTRATION MAP
MAY 2005
2005 ANNUAL GROUND WATER REPORT
EL DORADO CHEMICAL COMPANY
EL DORADO, ARKANSAS

DATE: 8/17/05	APPROVED: BY: SC DATE: 8/24/05	DRAWN BY: LMM
SCALE: see above		CAD NO. 02EC0100

EL DORADO

ENVIRONMENTAL MANAGEMENT SERVICES, INC.

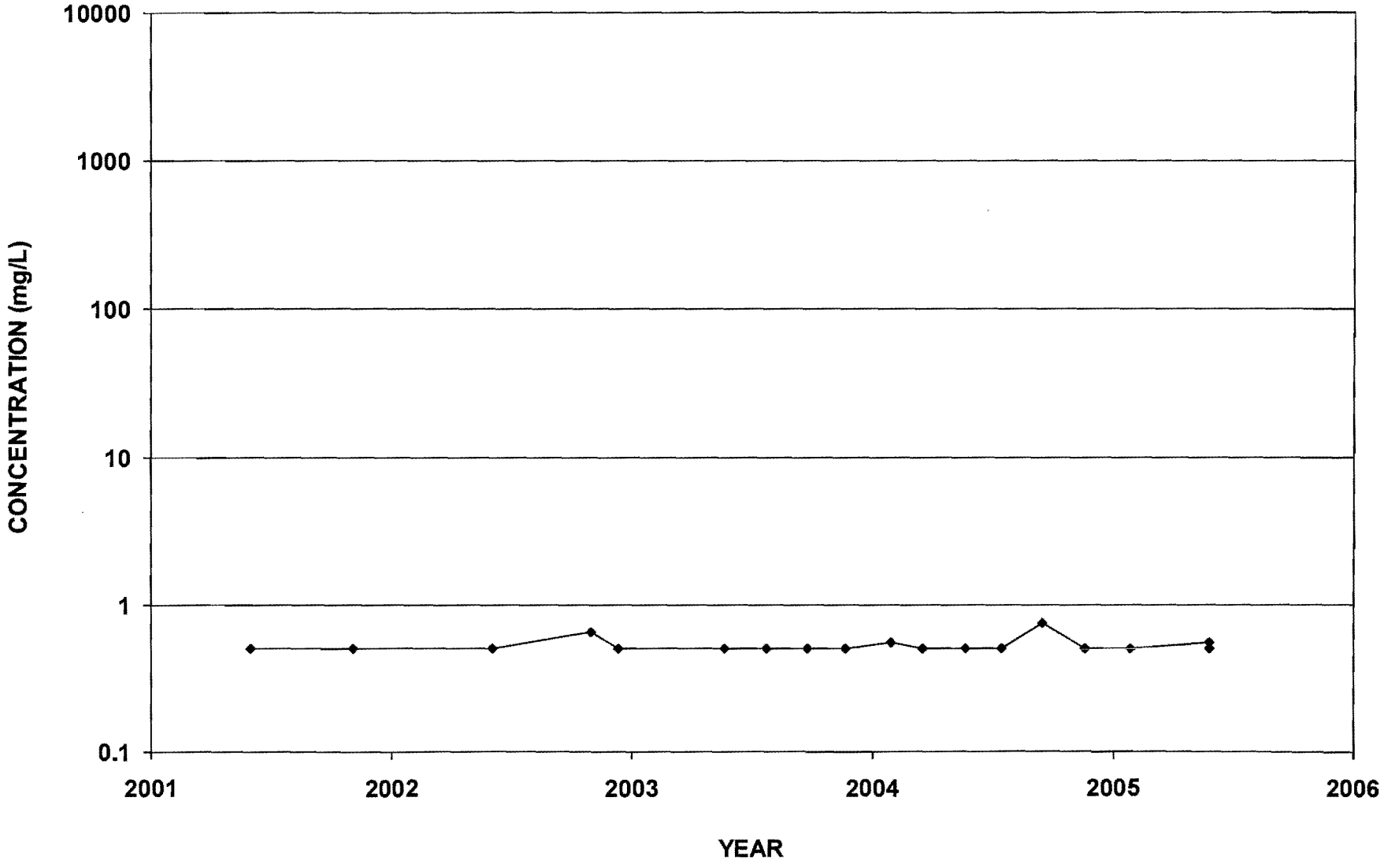
FIGURE 5

APPENDIX A

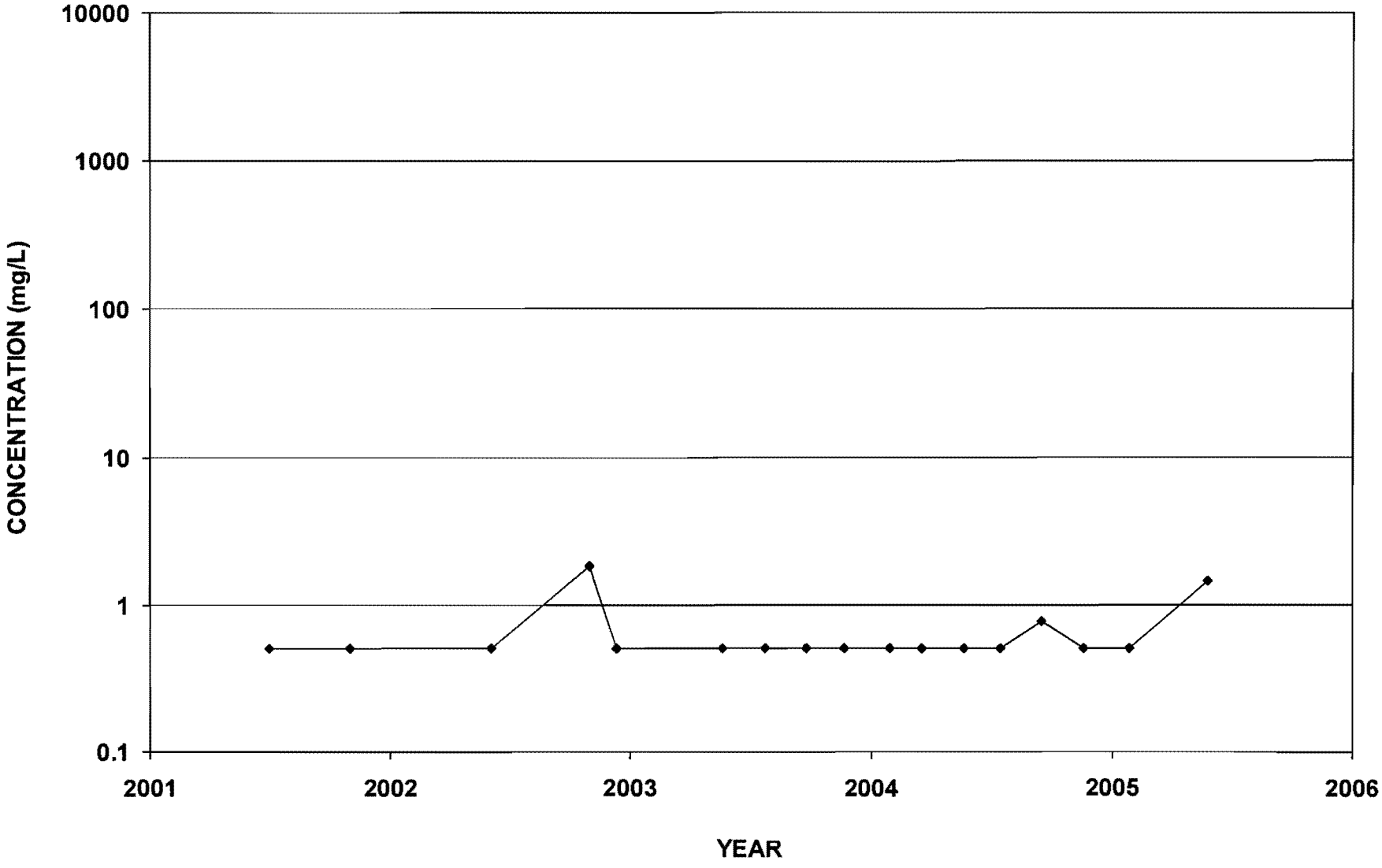
CONSTITUENT TREND GRAPHS

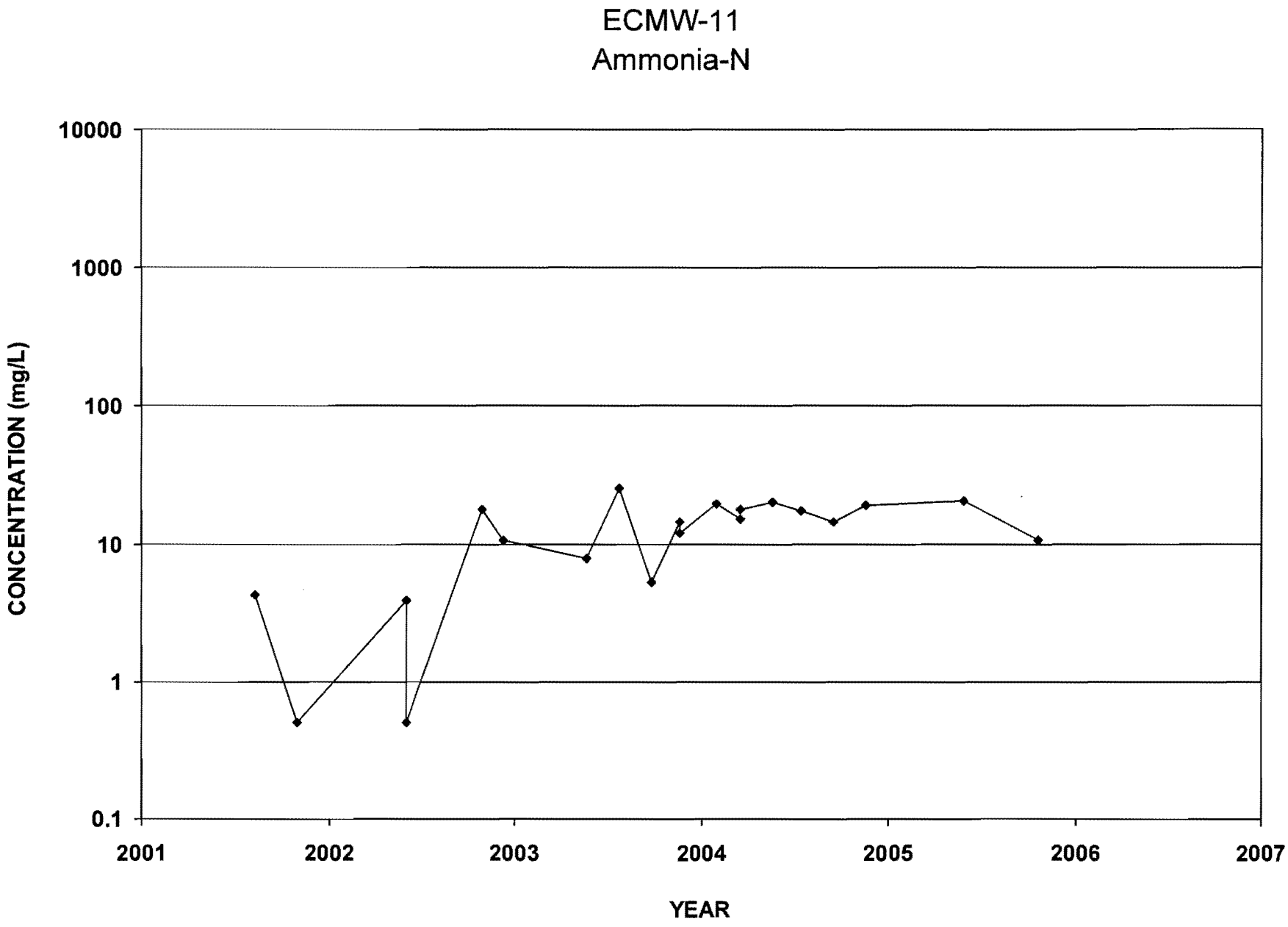
AMMONIA TREND GRAPHS

ECMW-1
Ammonia-N

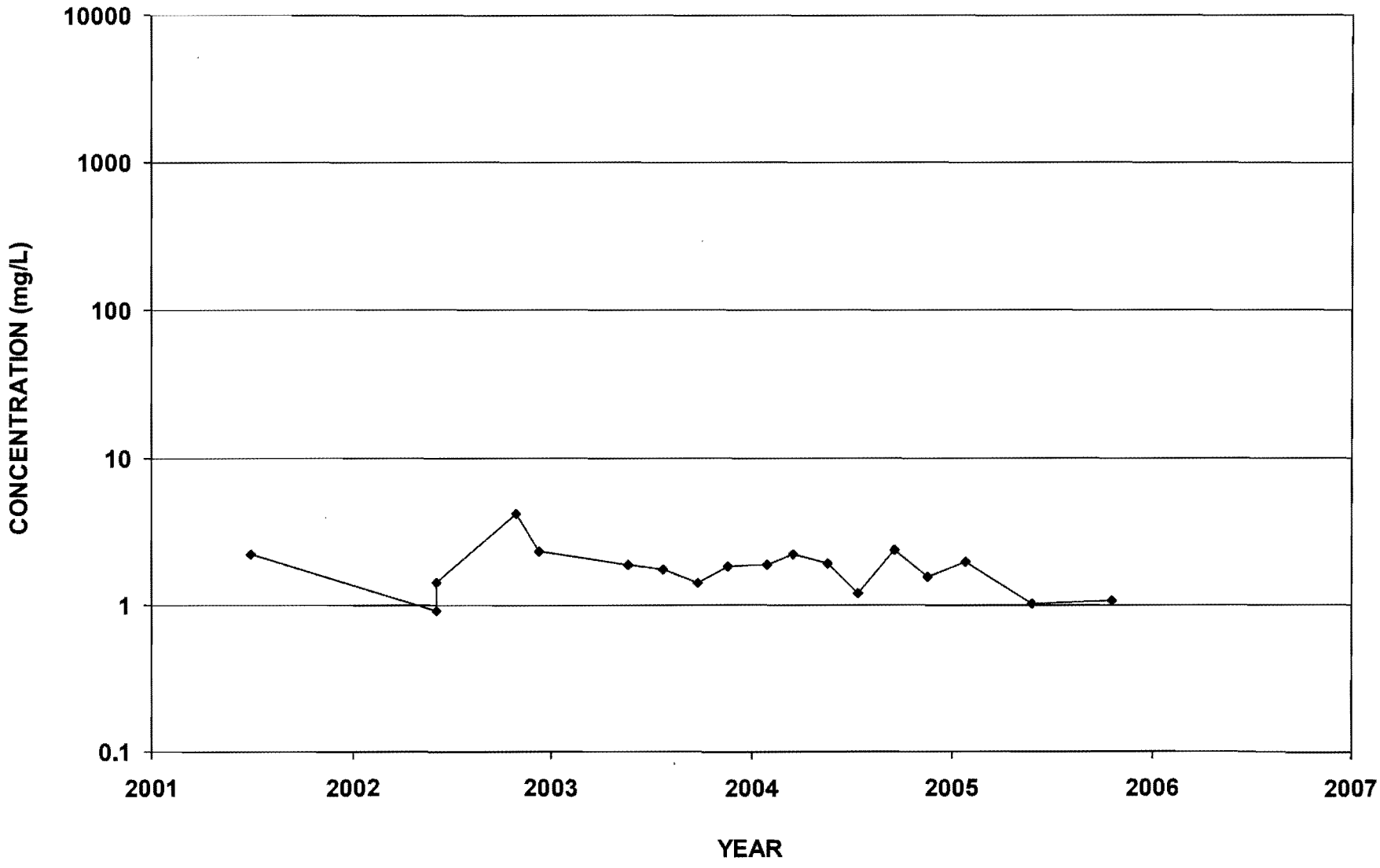


ECMW-10
Ammonia-N

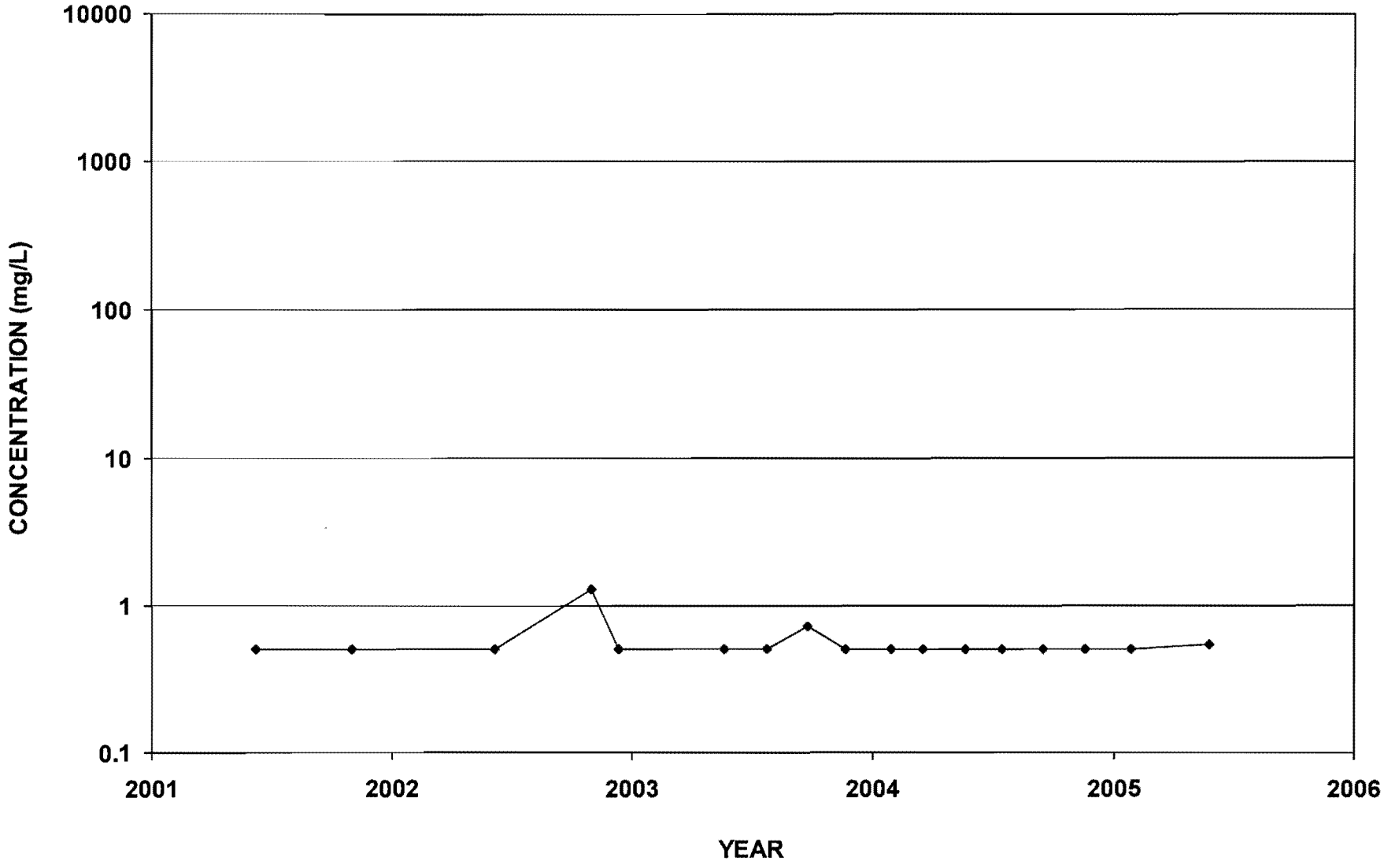



ECMW-11
Ammonia-N
10000
1000
100
10
1
0.1
CONCENTRATION (mg/L)
2001
2002
2003
2004
2005
2006
2007
YEAR

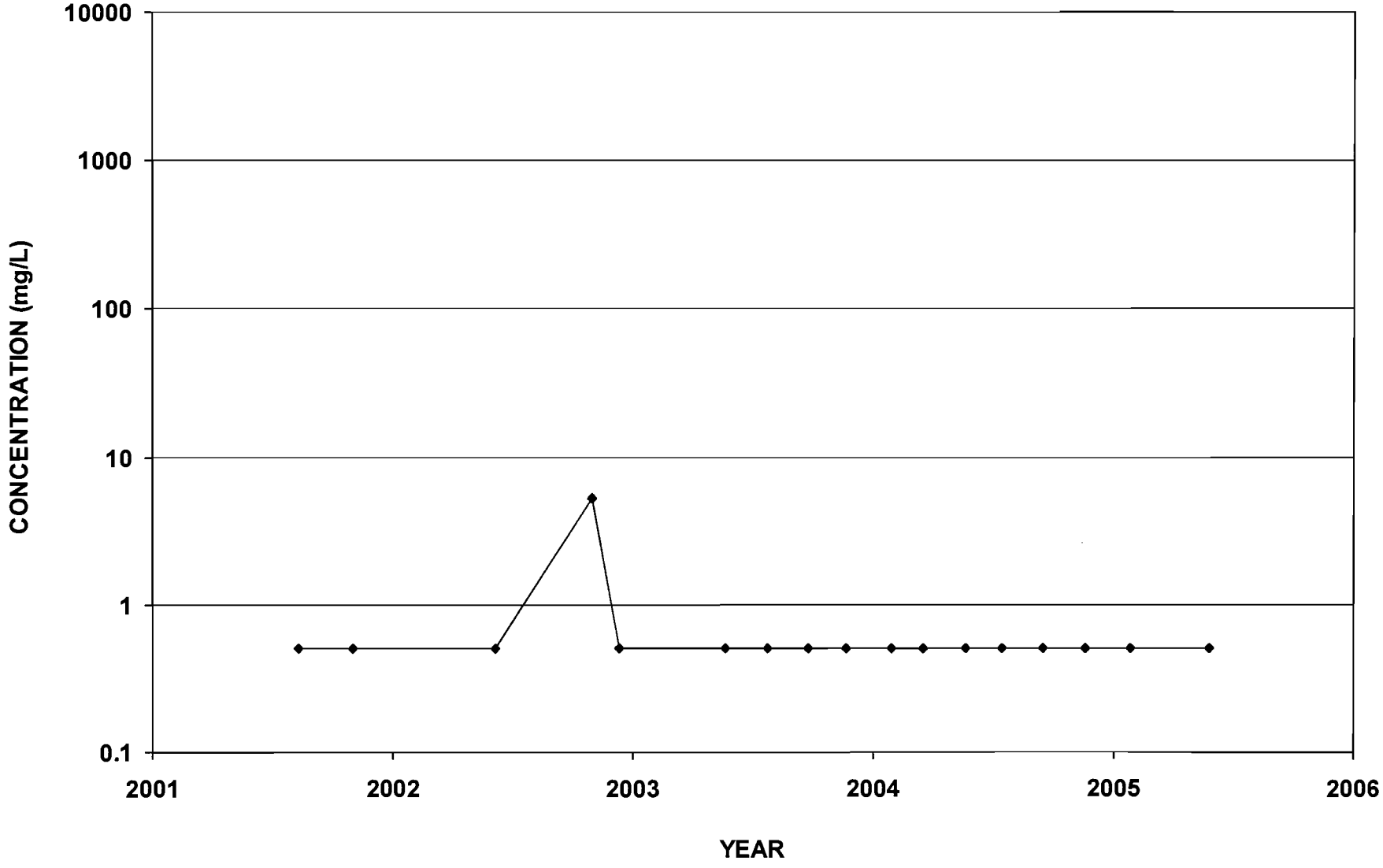
ECMW-12
Ammonia-N



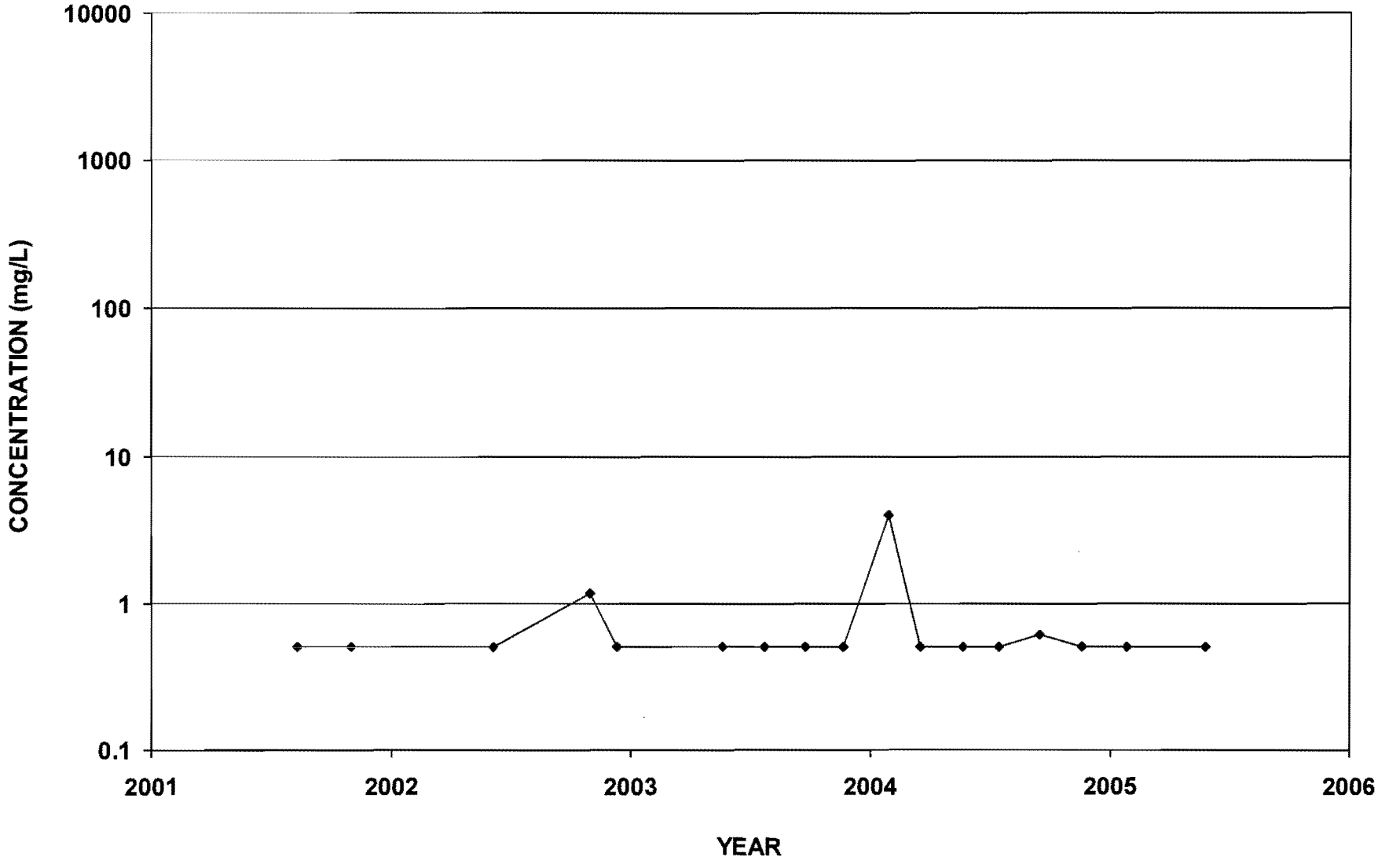
ECMW-13
Ammonia-N



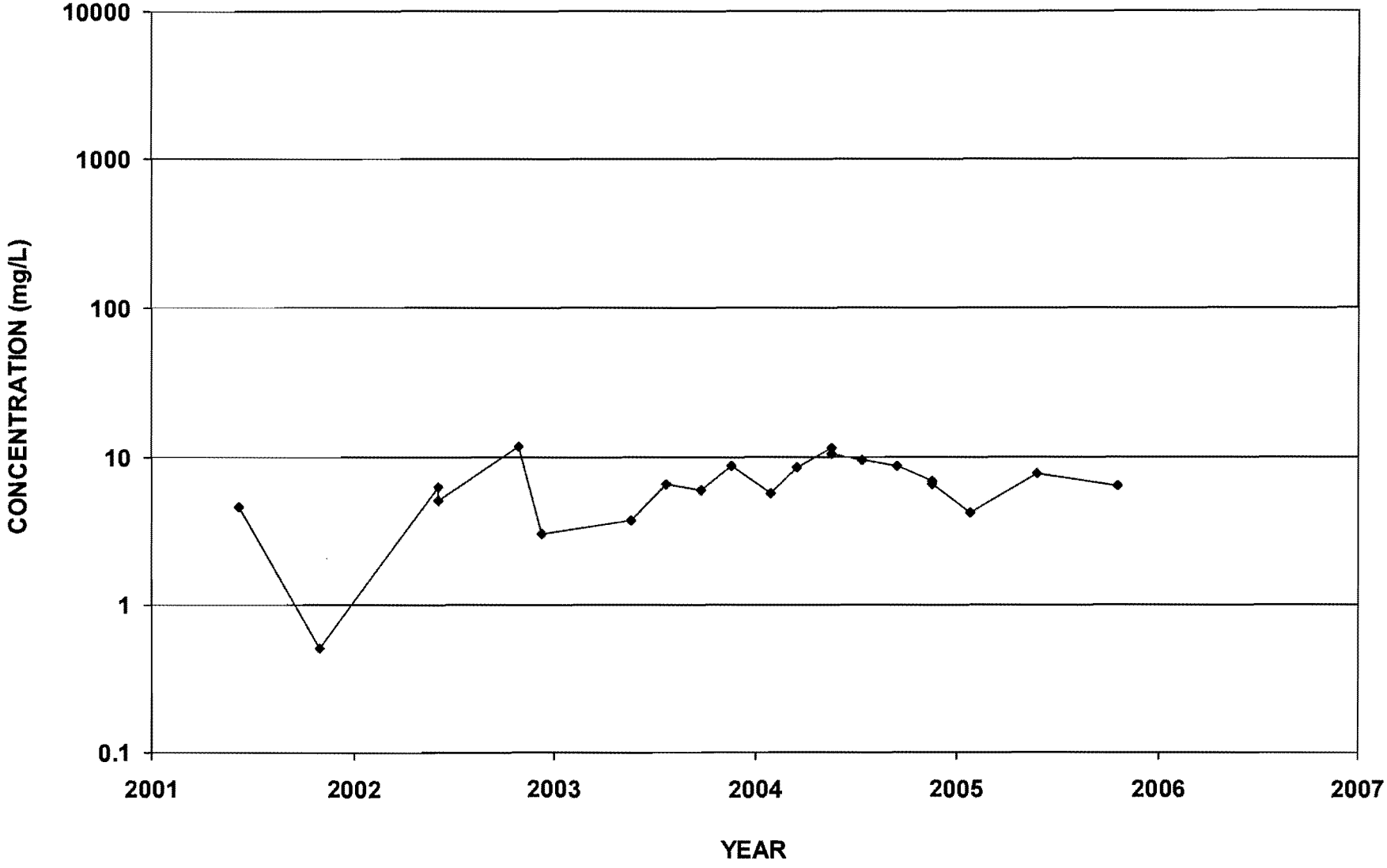
ECMW-14
Ammonia-N



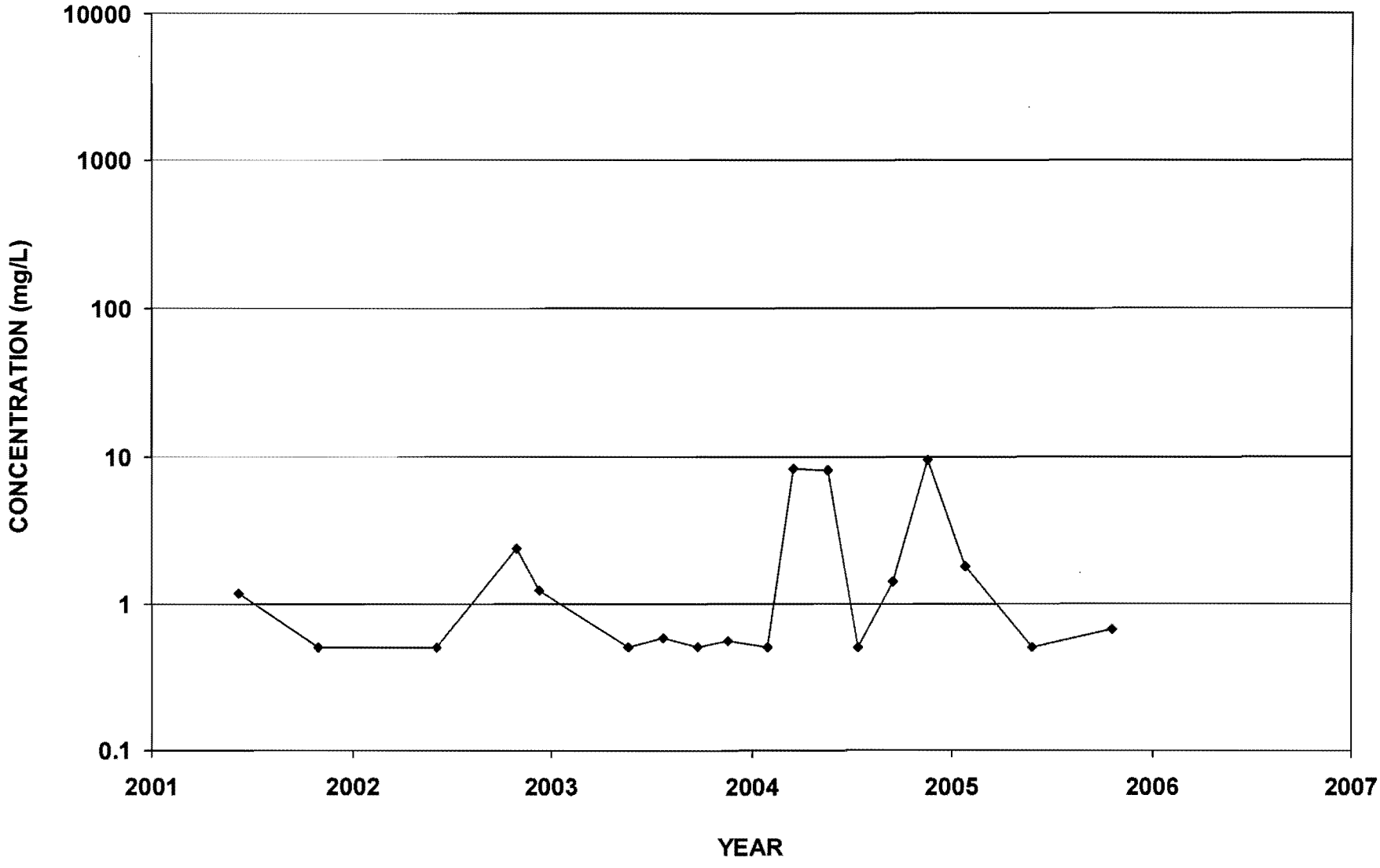
ECMW-15
Ammonia-N



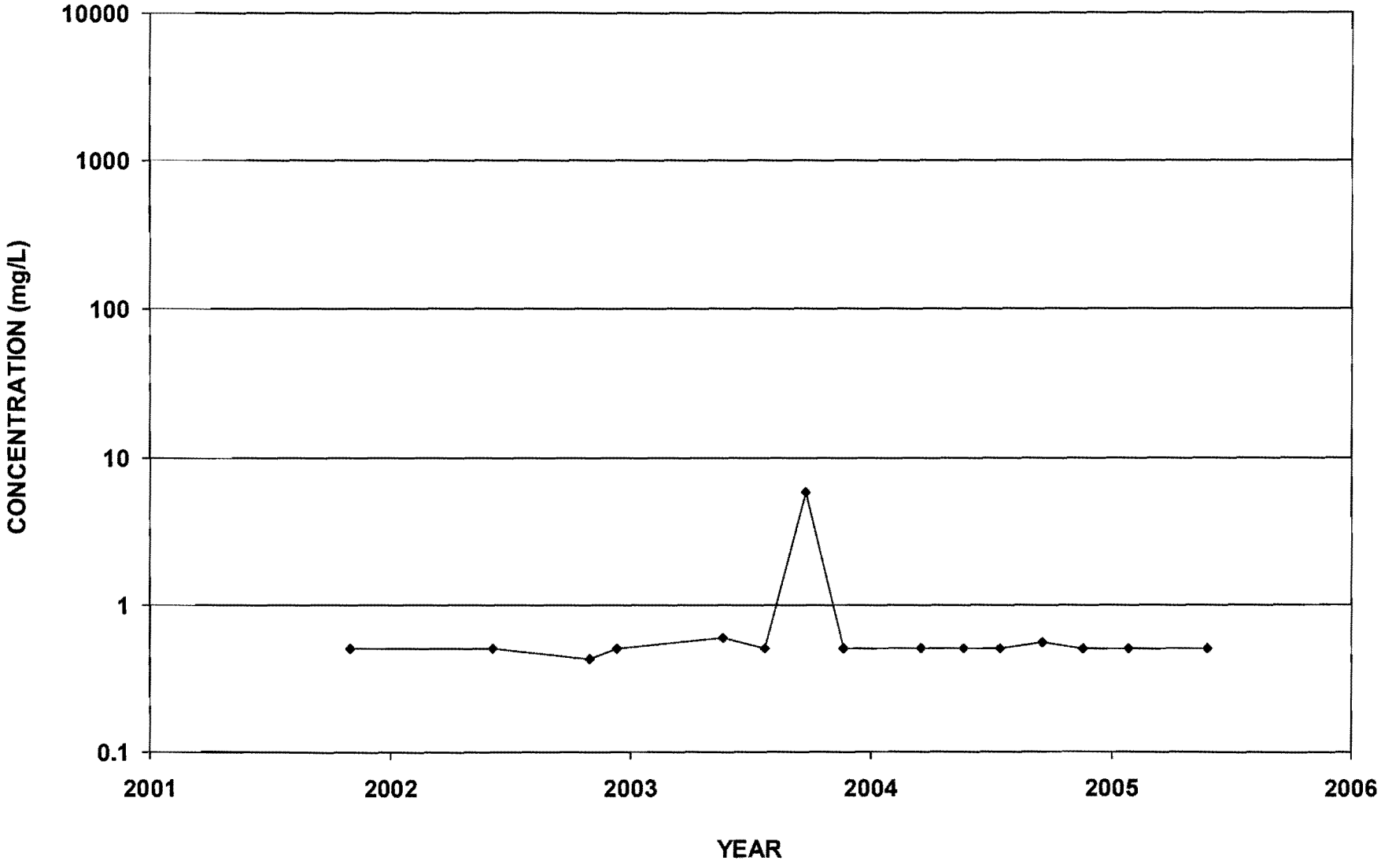
ECMW-16
Ammonia-N



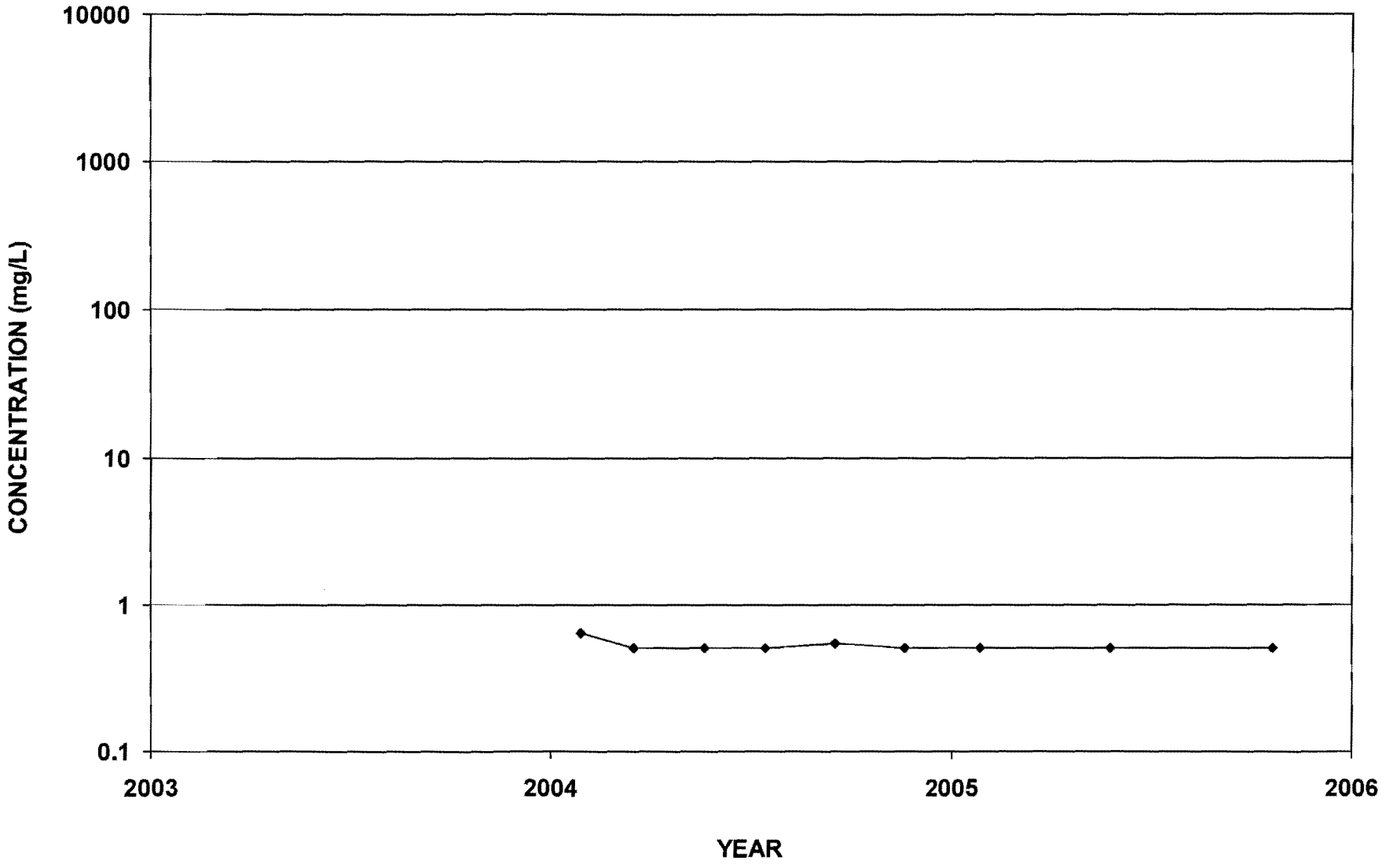
ECMW-17
Ammonia-N

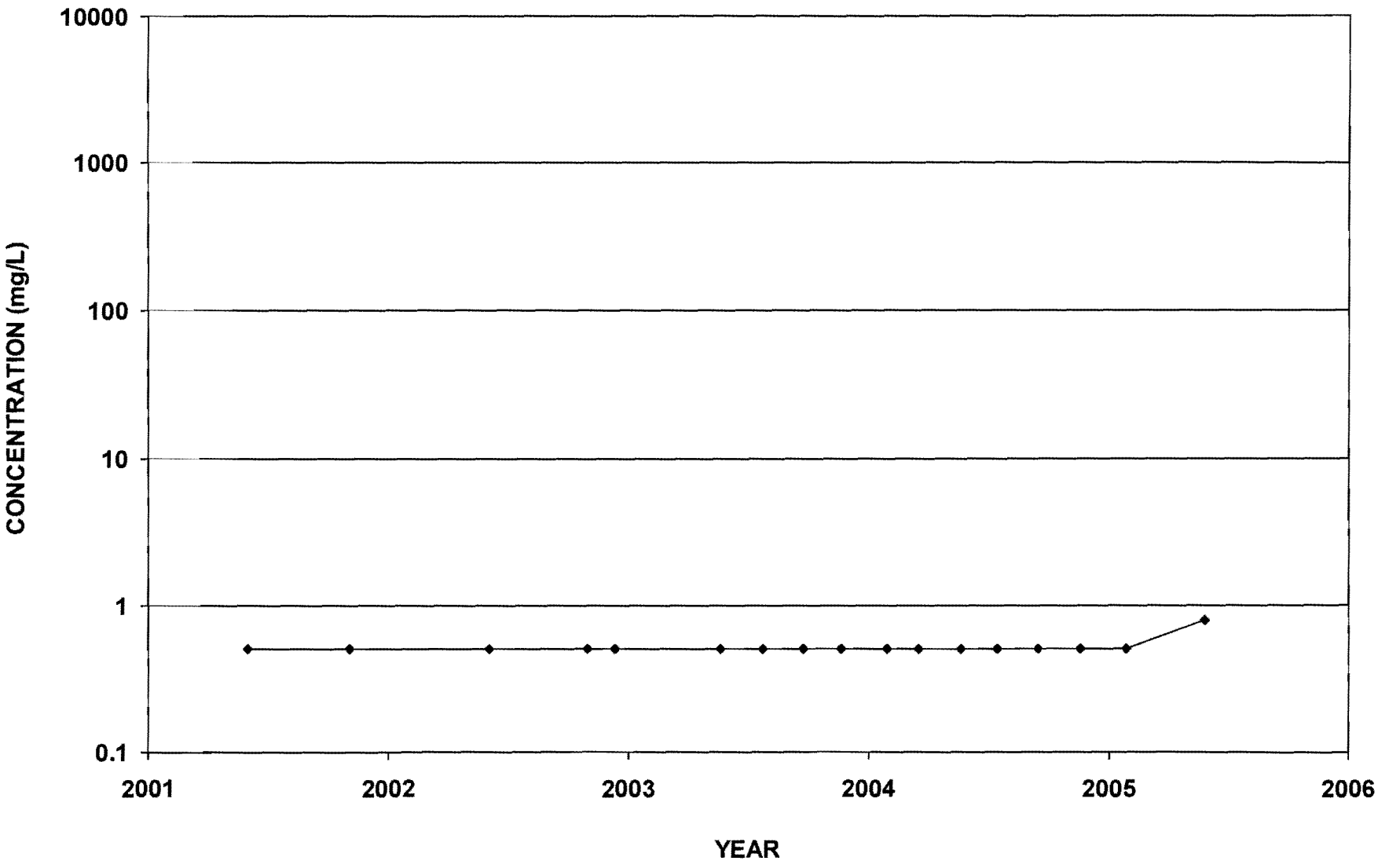


ECMW-18
Ammonia-N

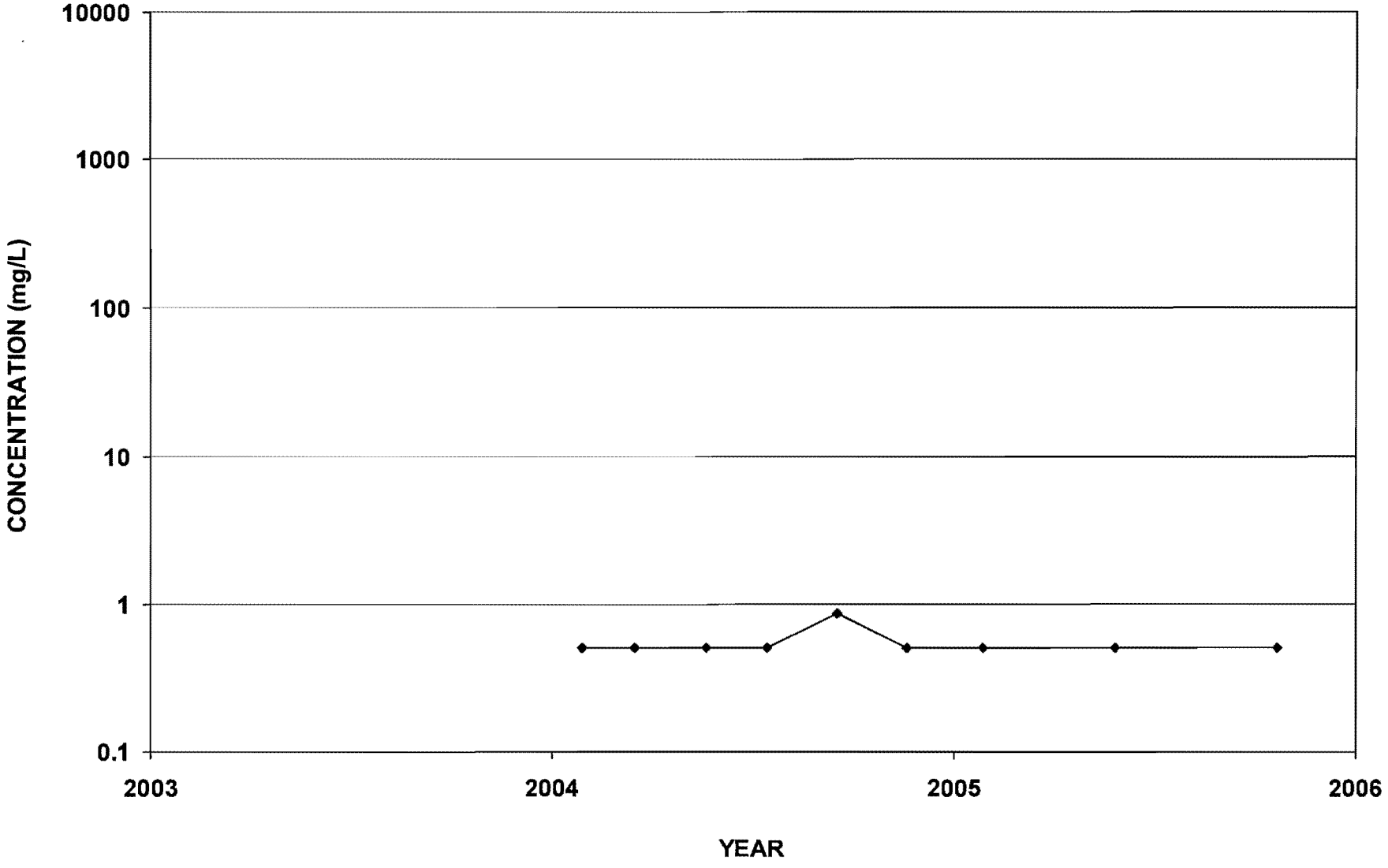


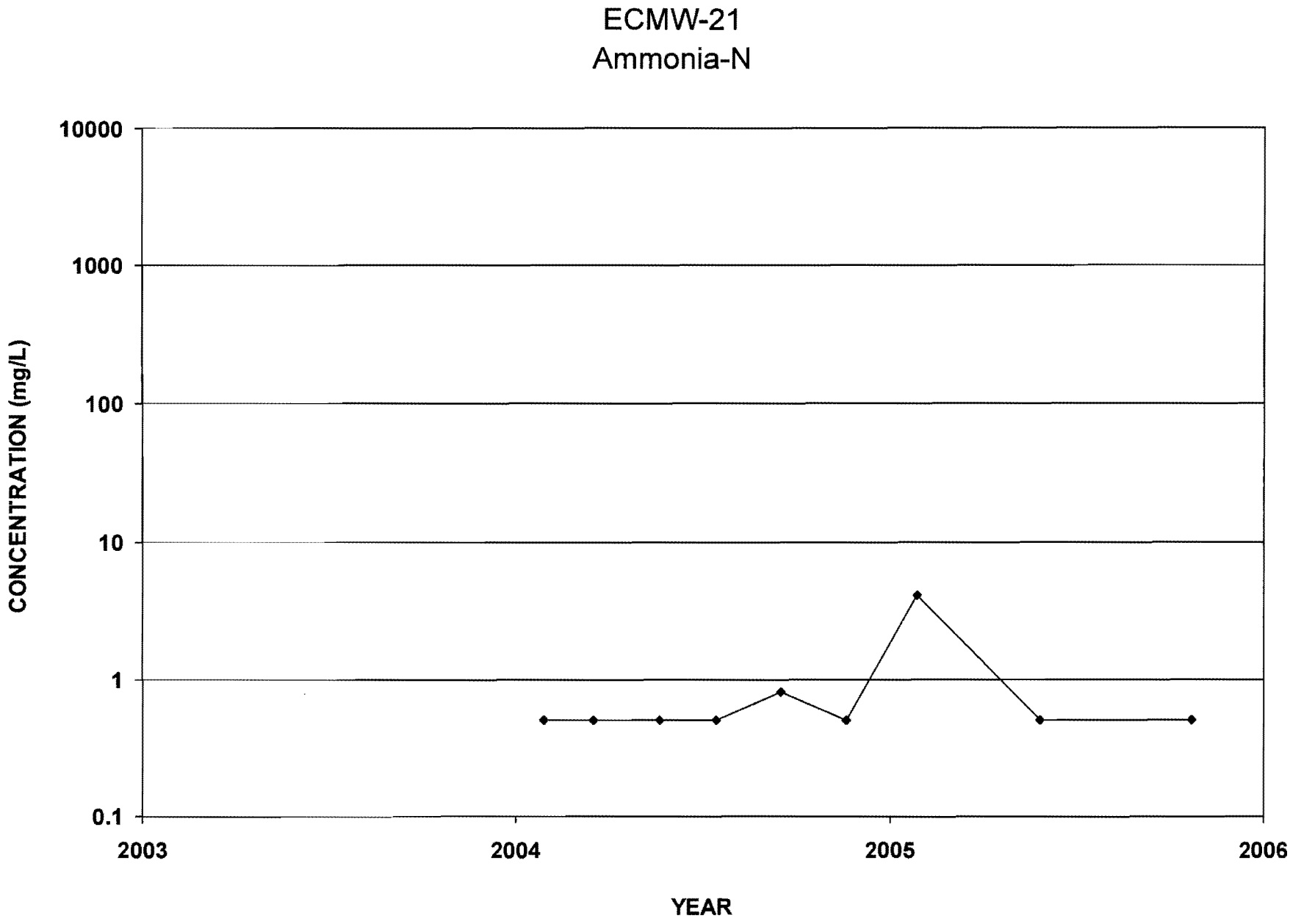
ECMW-19
Ammonia-N

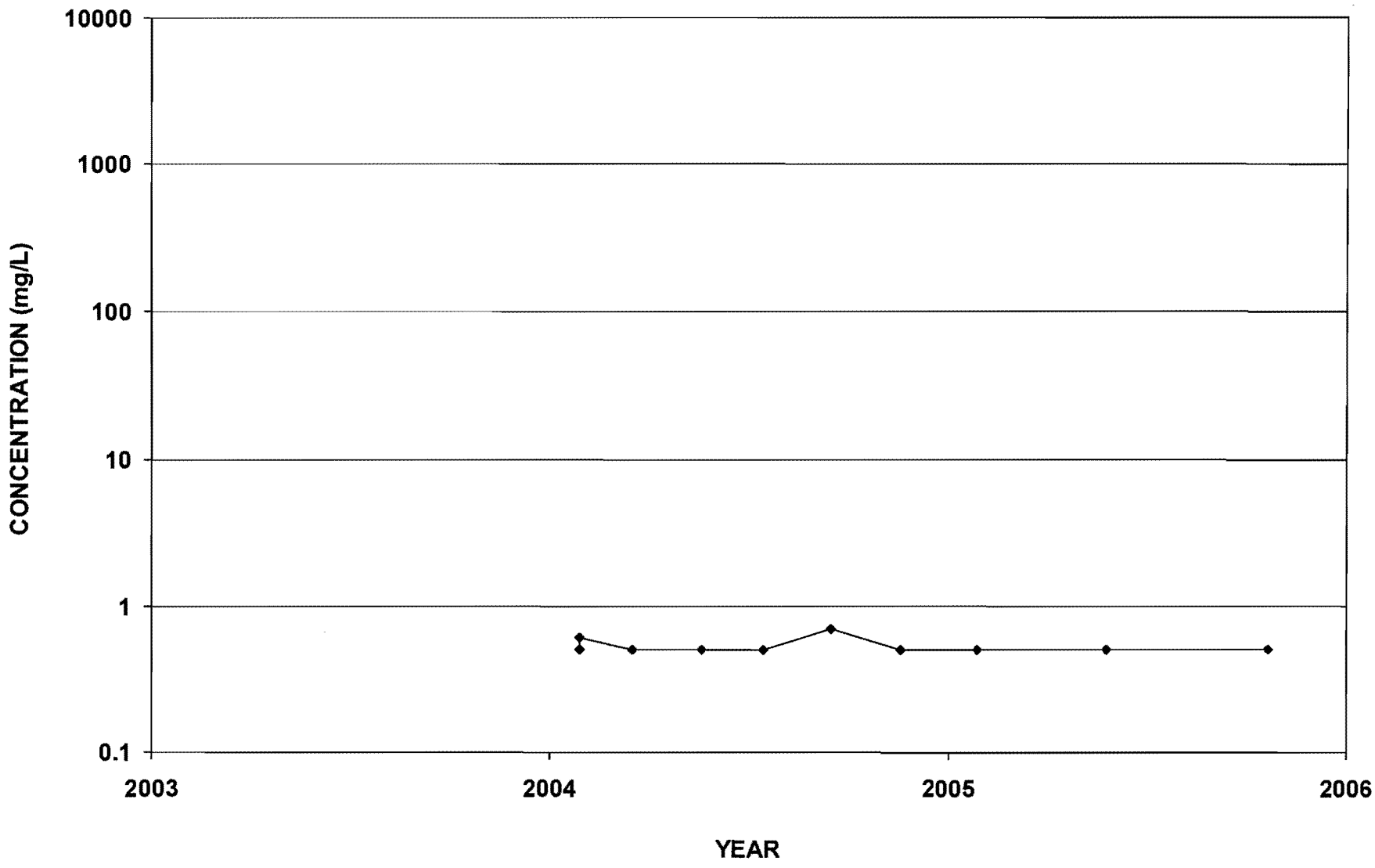



ECMW-2
Ammonia-N
10000
1000
100
10
1
0.1
CONCENTRATION (mg/L)
2001
2002
2003
2004
2005
2006
YEAR

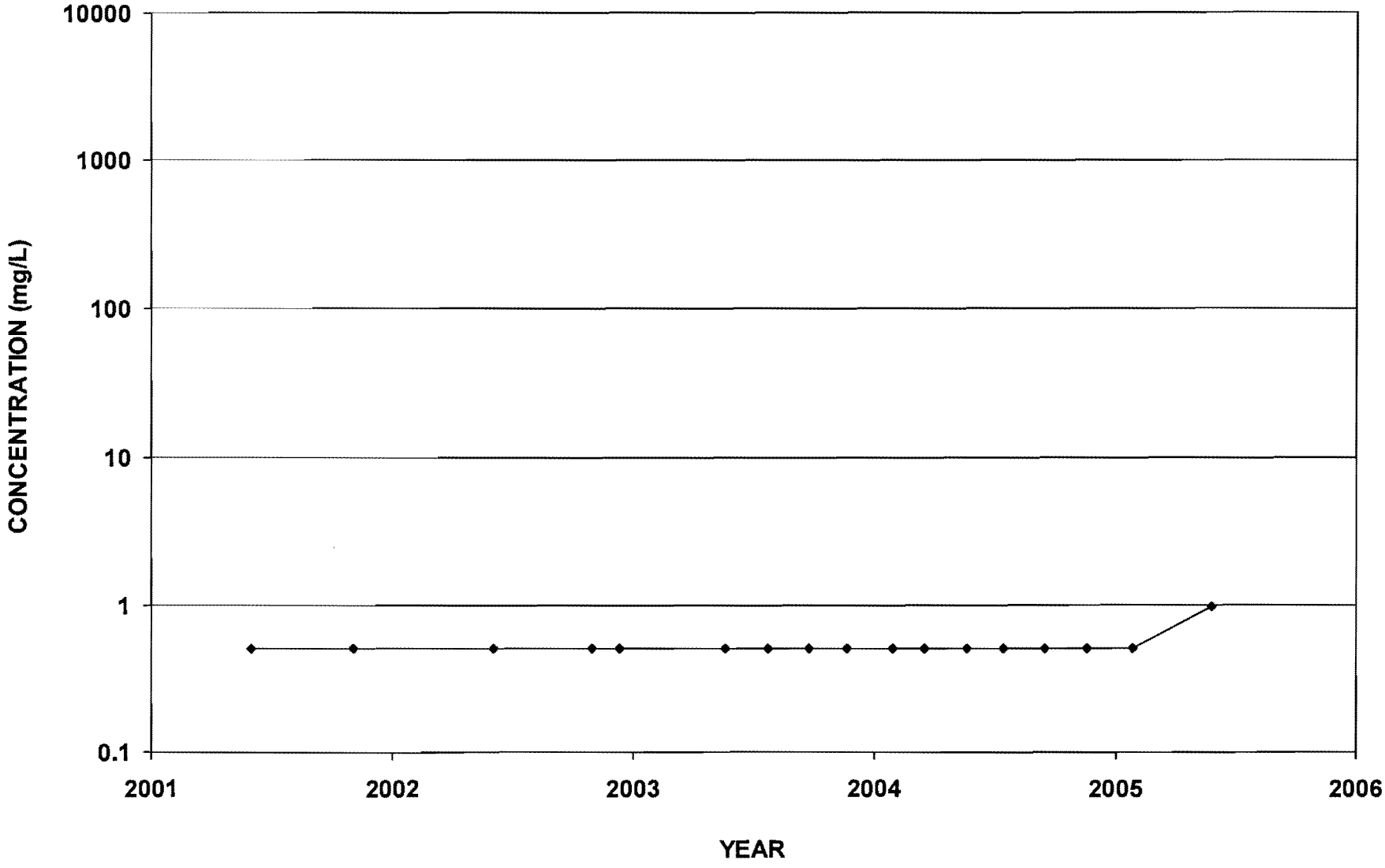
ECMW-20
Ammonia-N



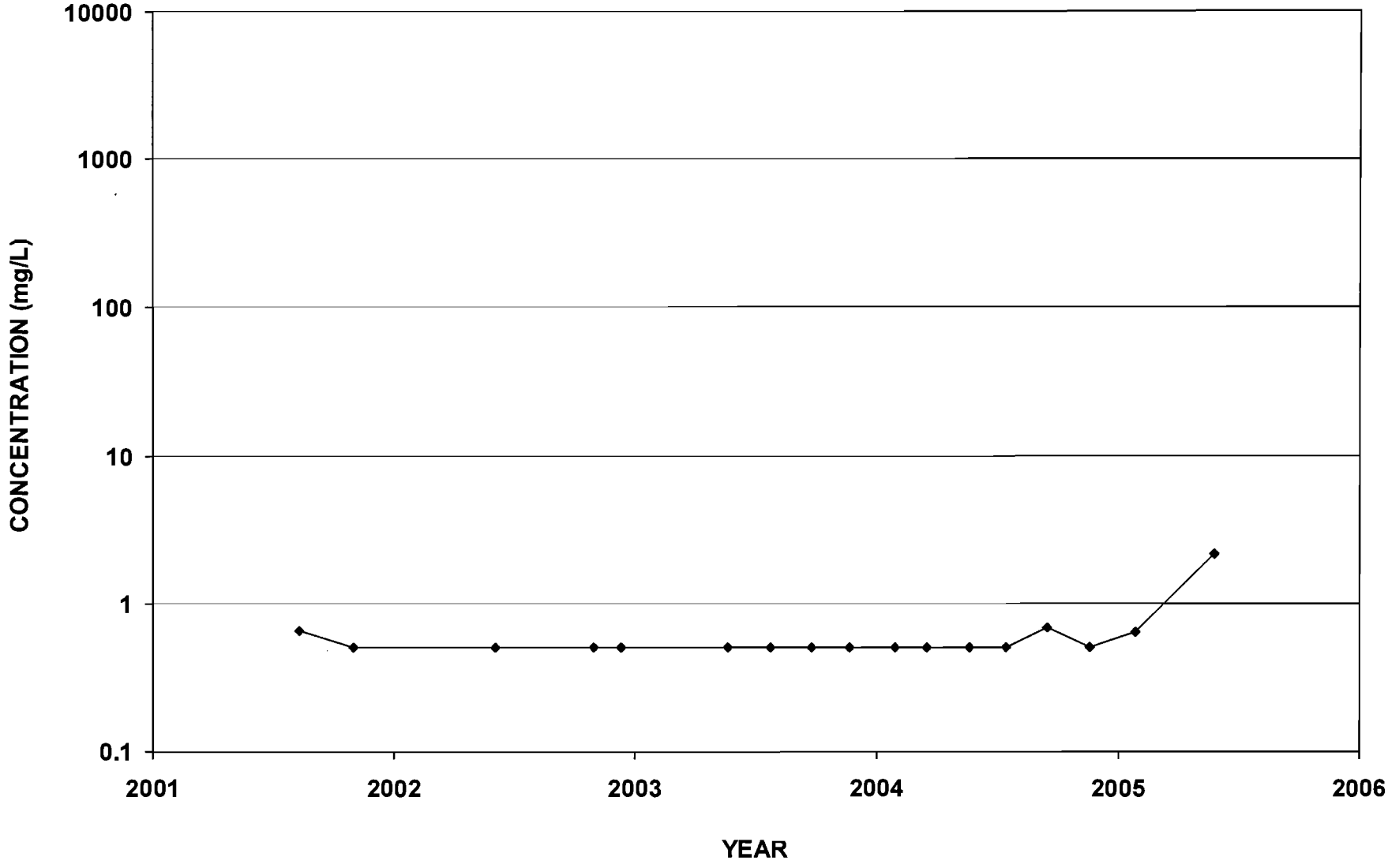

ECMW-21
Ammonia-N
10000
1000
100
10
1
0.1
CONCENTRATION (mg/L)
2003
2004
2005
2006
YEAR


ECMW-22
Ammonia-N
10000
1000
100
10
1
0.1
CONCENTRATION (mg/L)
2003
2004
2005
2006
YEAR

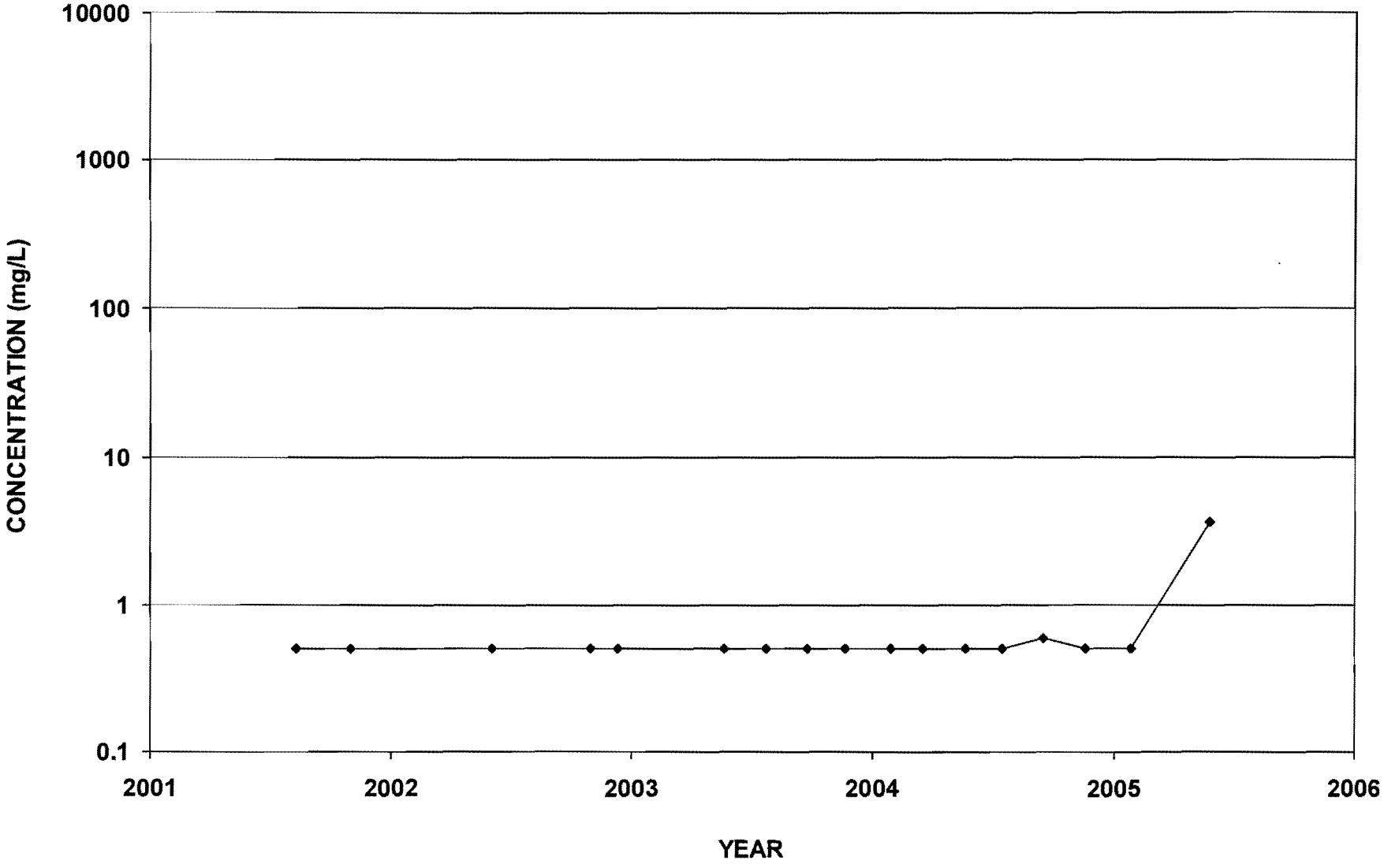
ECMW-3
Ammonia-N



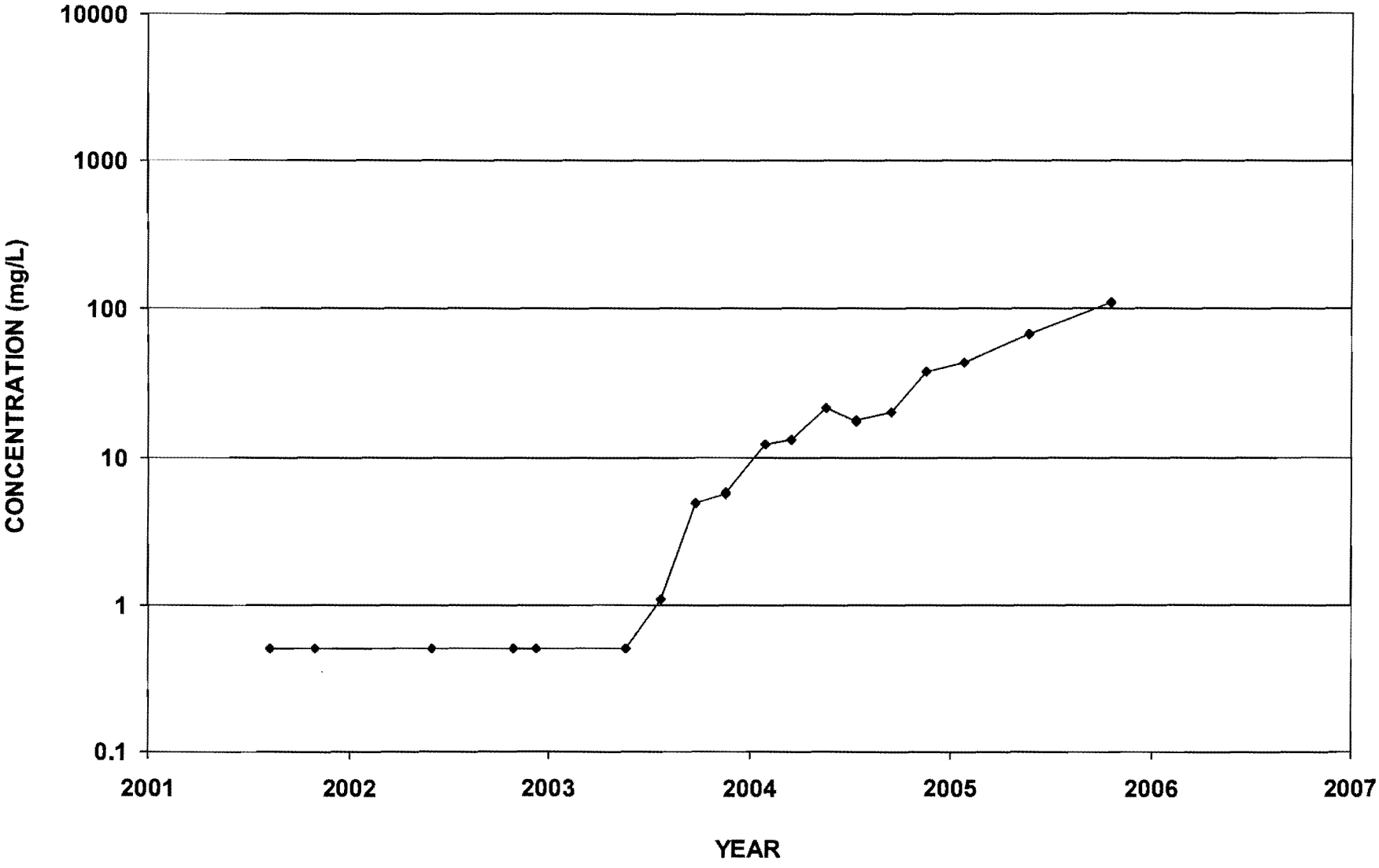
ECMW-4
Ammonia-N

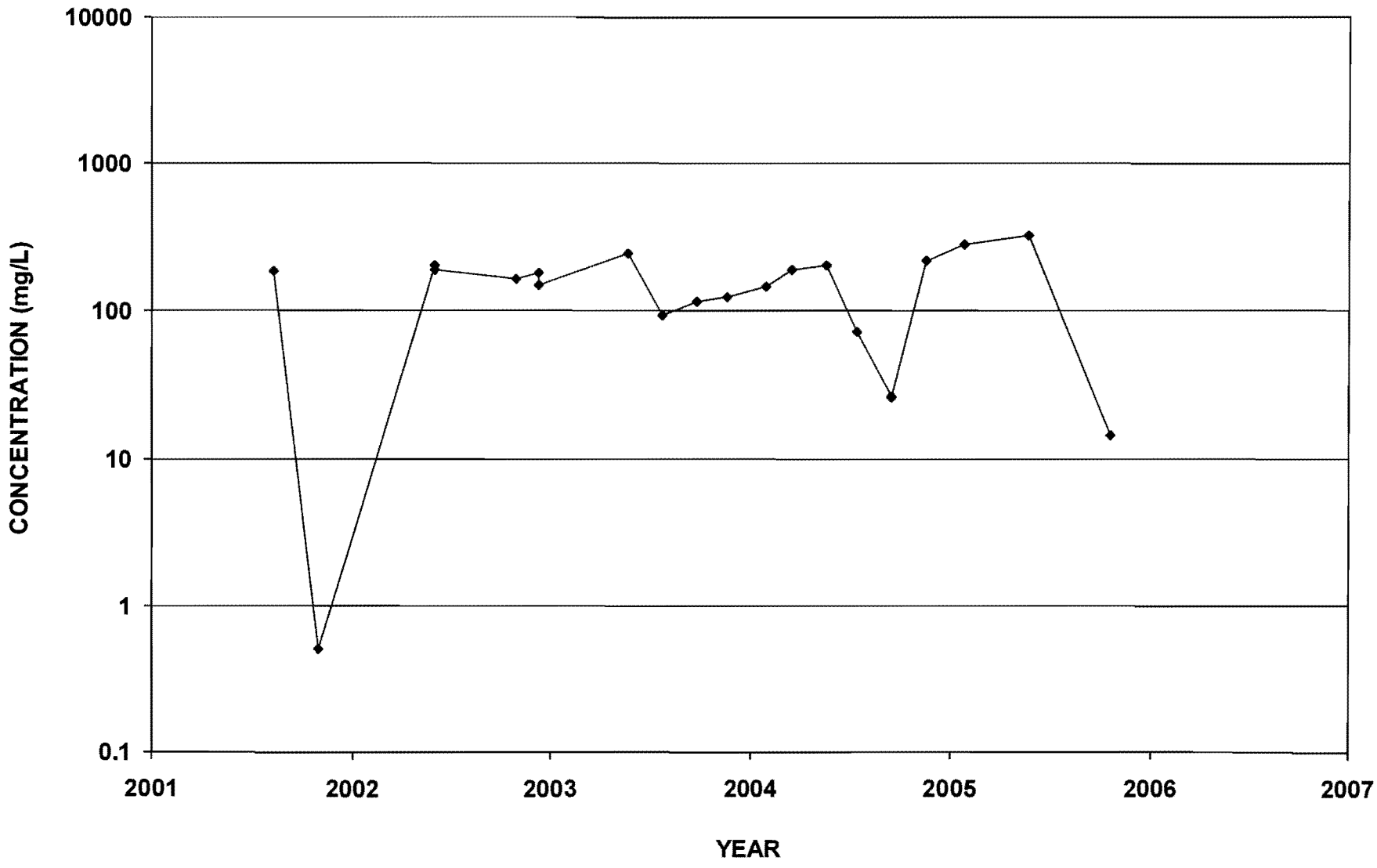


ECMW-5
Ammonia-N

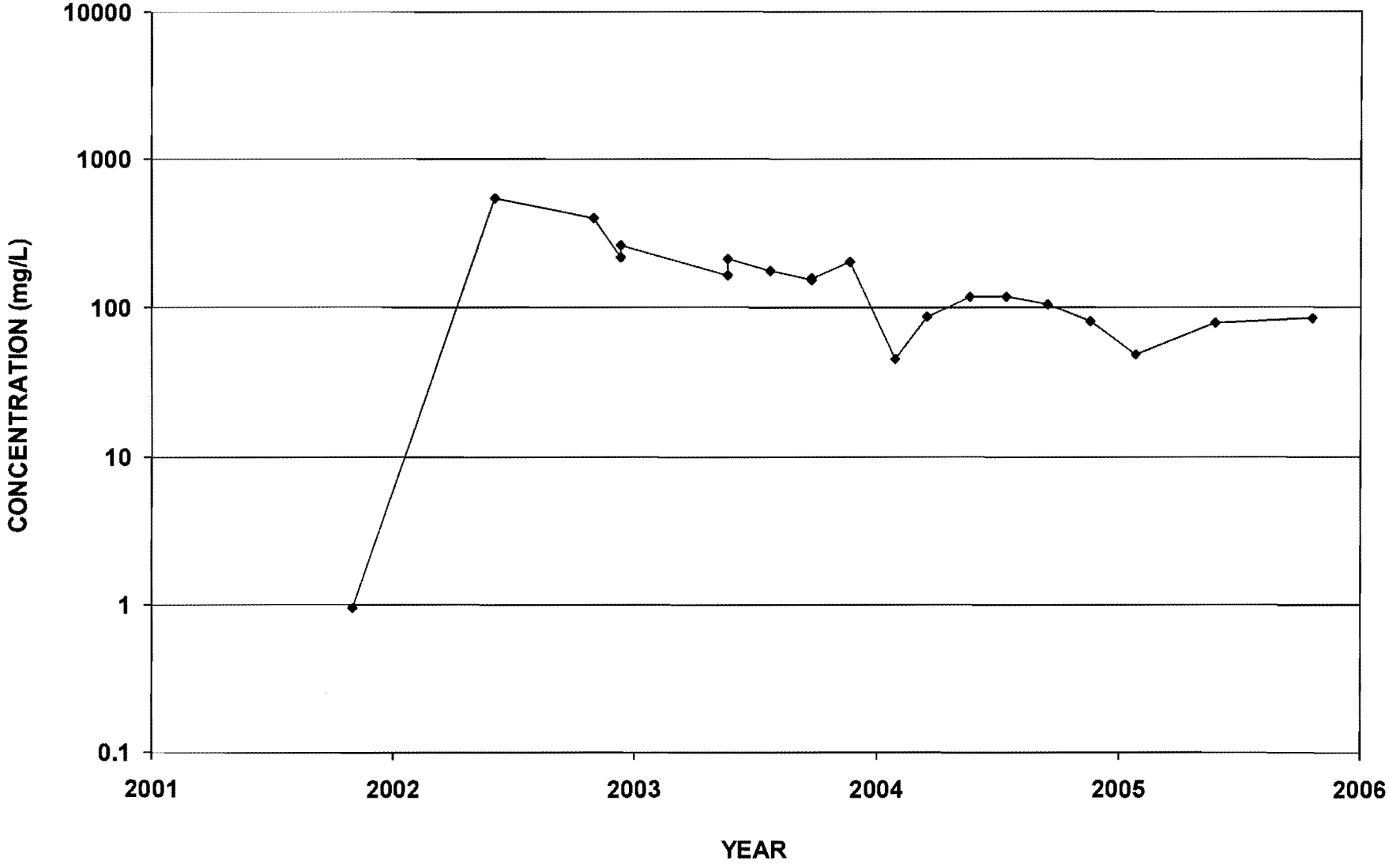


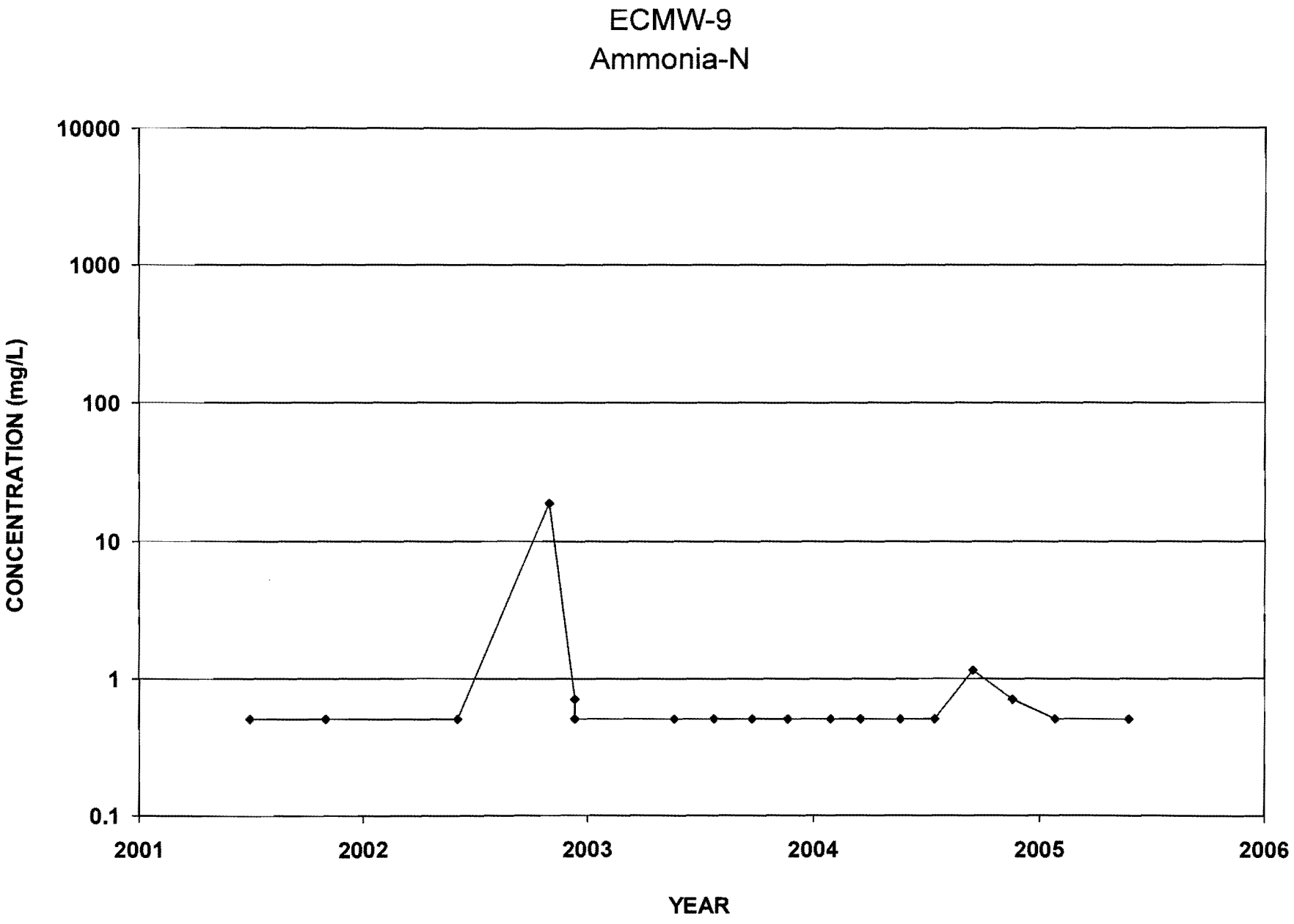
ECMW-6
Ammonia-N




ECMW-7
Ammonia-N
10000
1000
100
10
1
0.1
CONCENTRATION (mg/L)
2001
2002
2003
2004
2005
2006
2007
YEAR

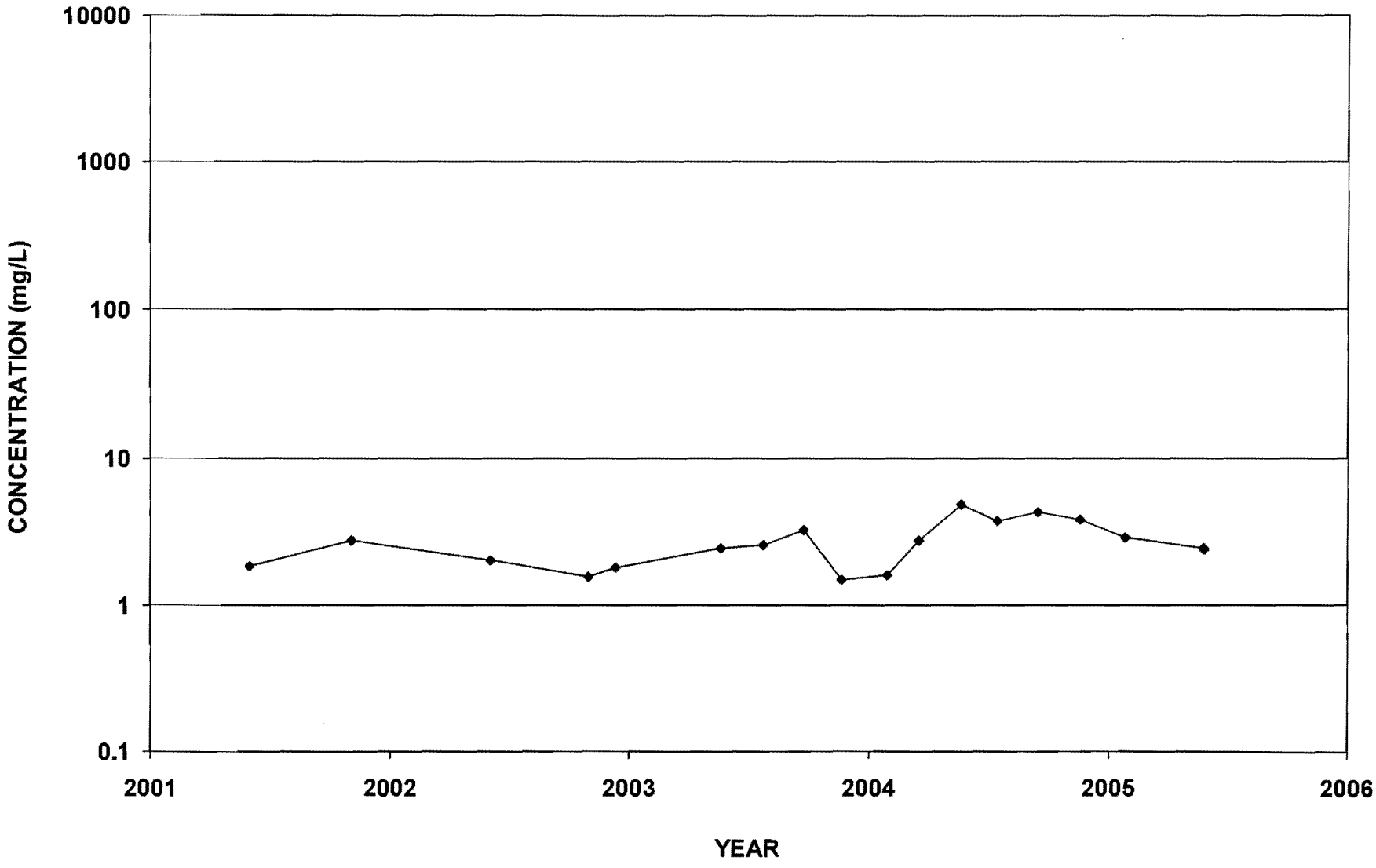
ECMW-8
Ammonia-N



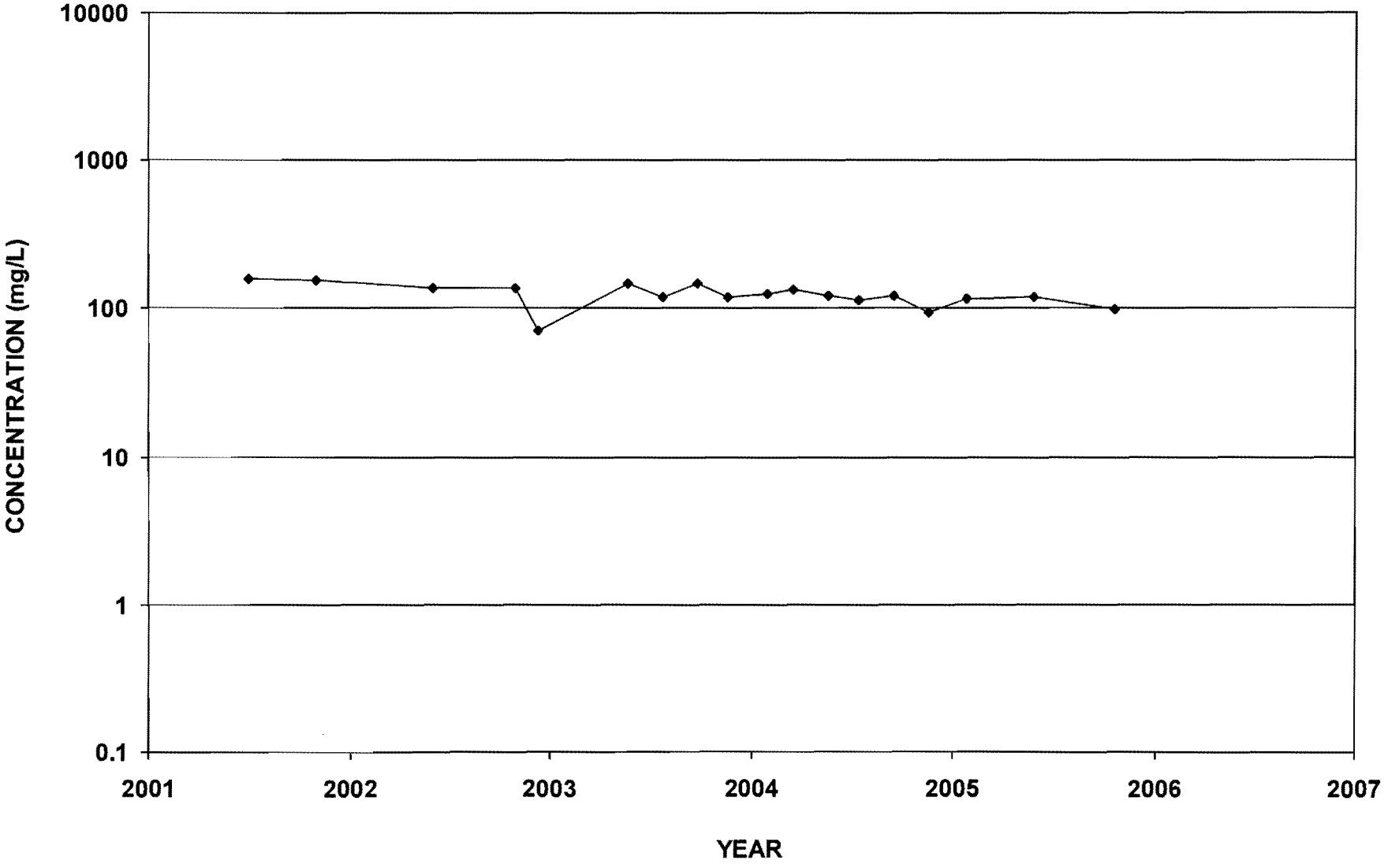

ECMW-9
Ammonia-N
10000
1000
100
10
1
0.1
CONCENTRATION (mg/L)
2001
2002
2003
2004
2005
2006
YEAR

NITRATE TREND GRAPHS

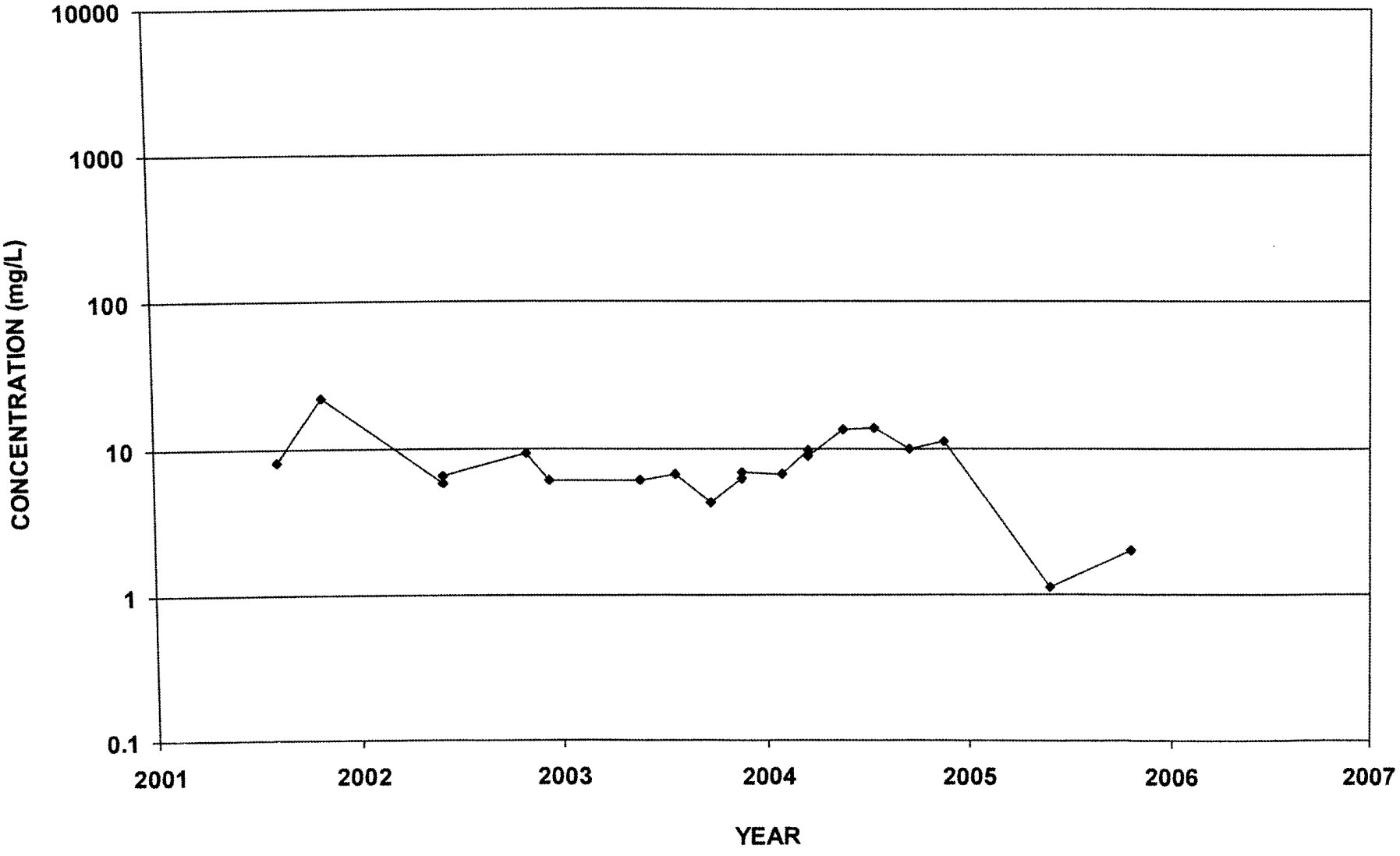
ECMW-1
Nitrate-N



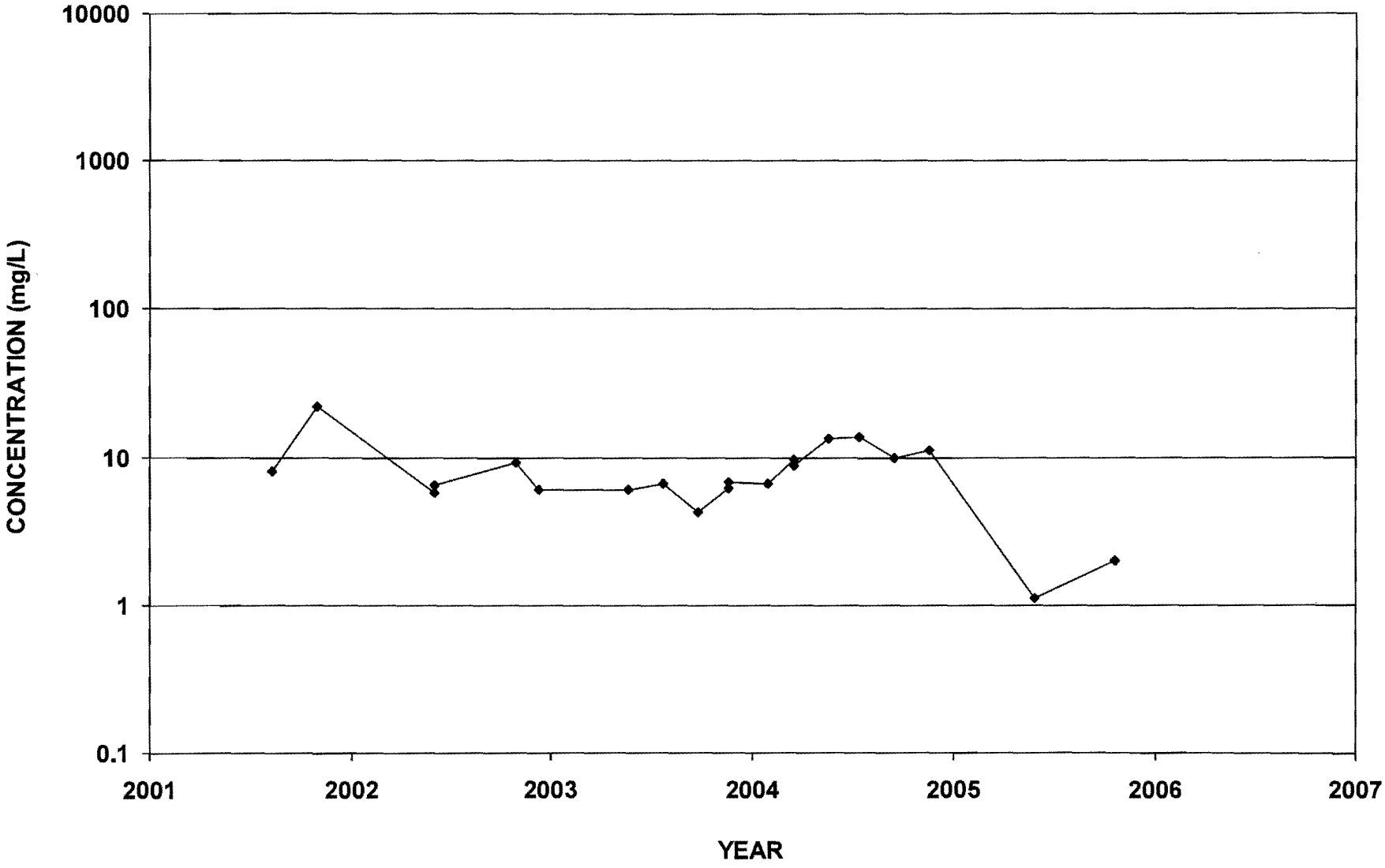
ECMW-10
Nitrate-N



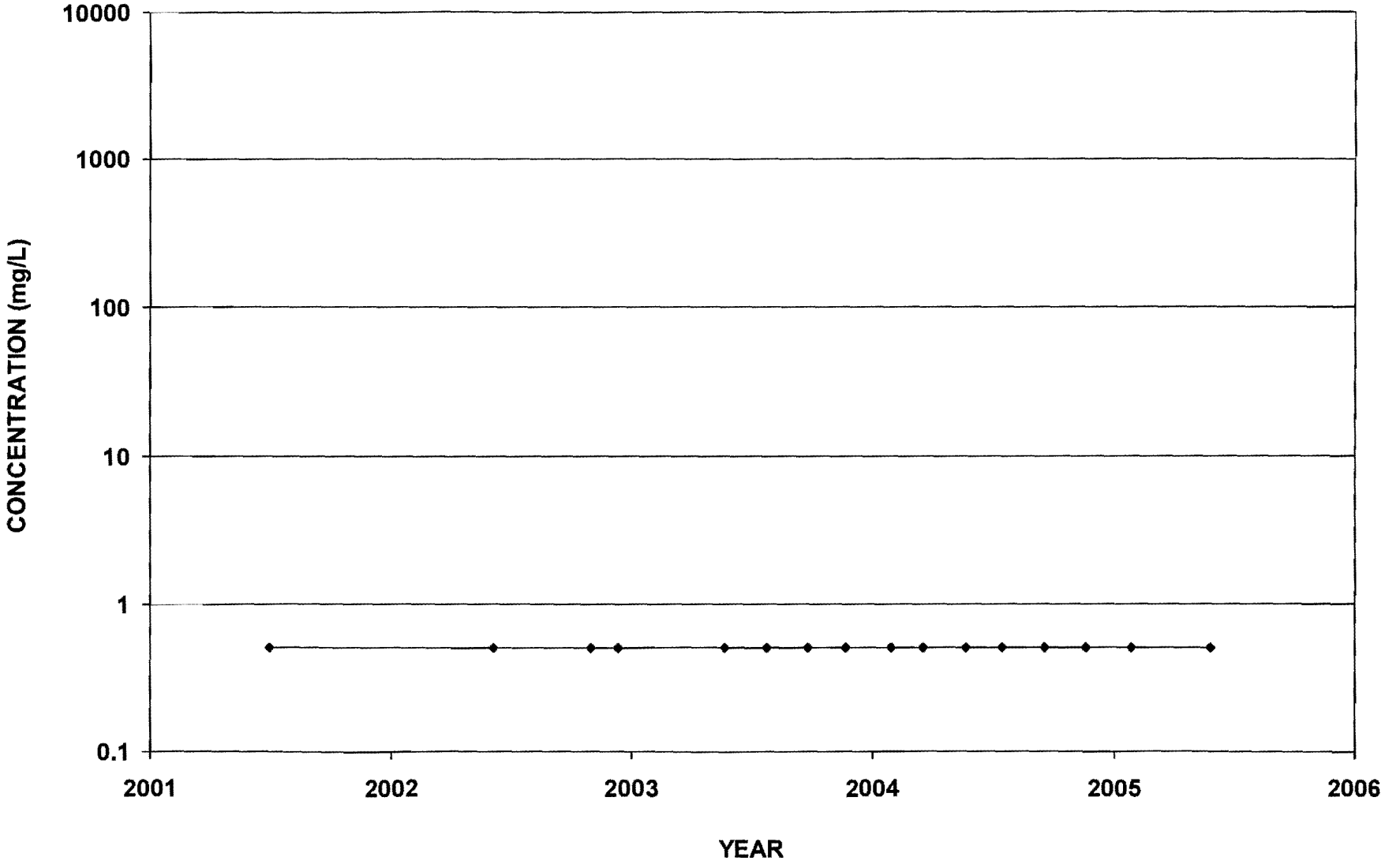
ECMW-11
Nitrate-N



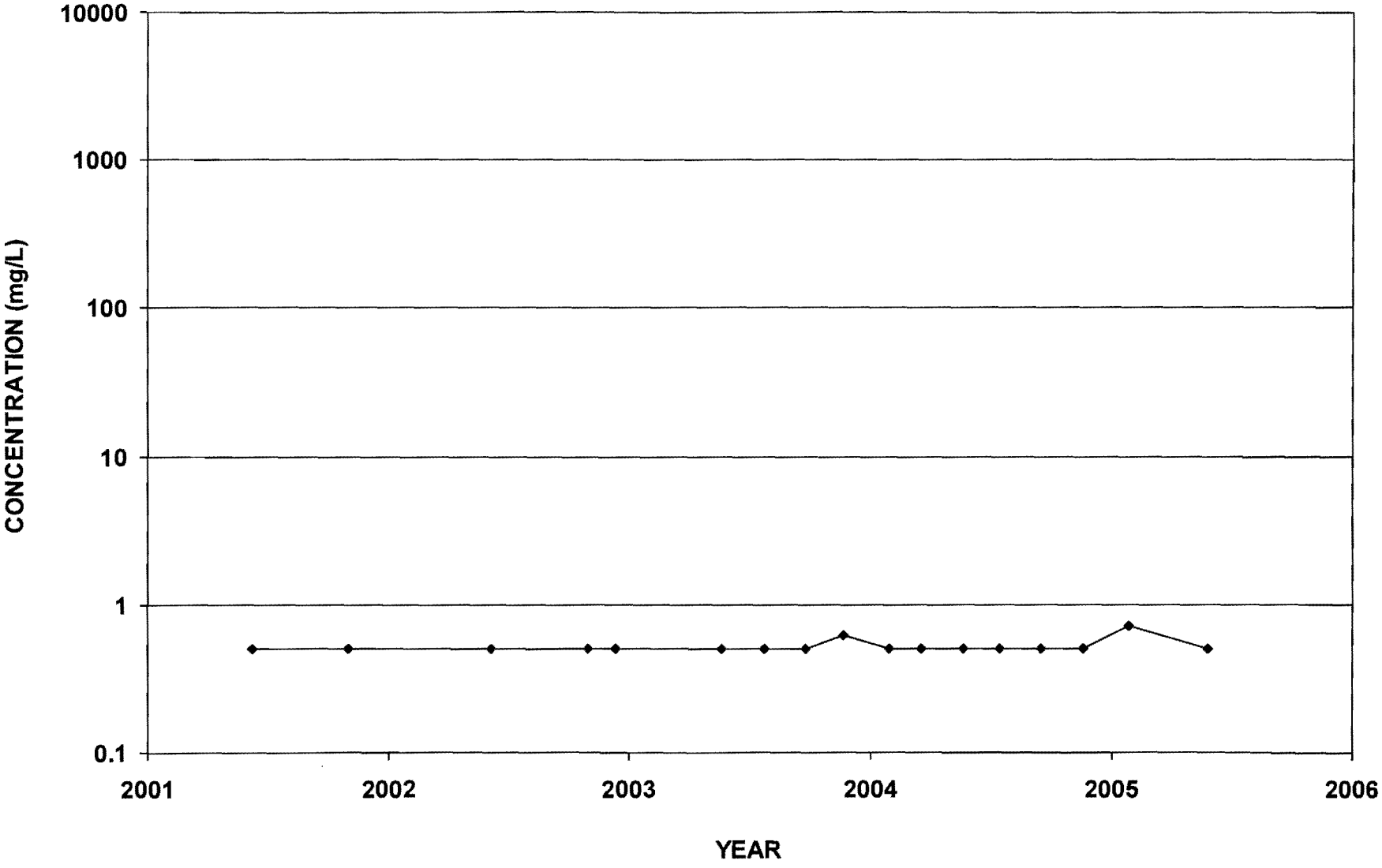
ECMW-11
Nitrate-N



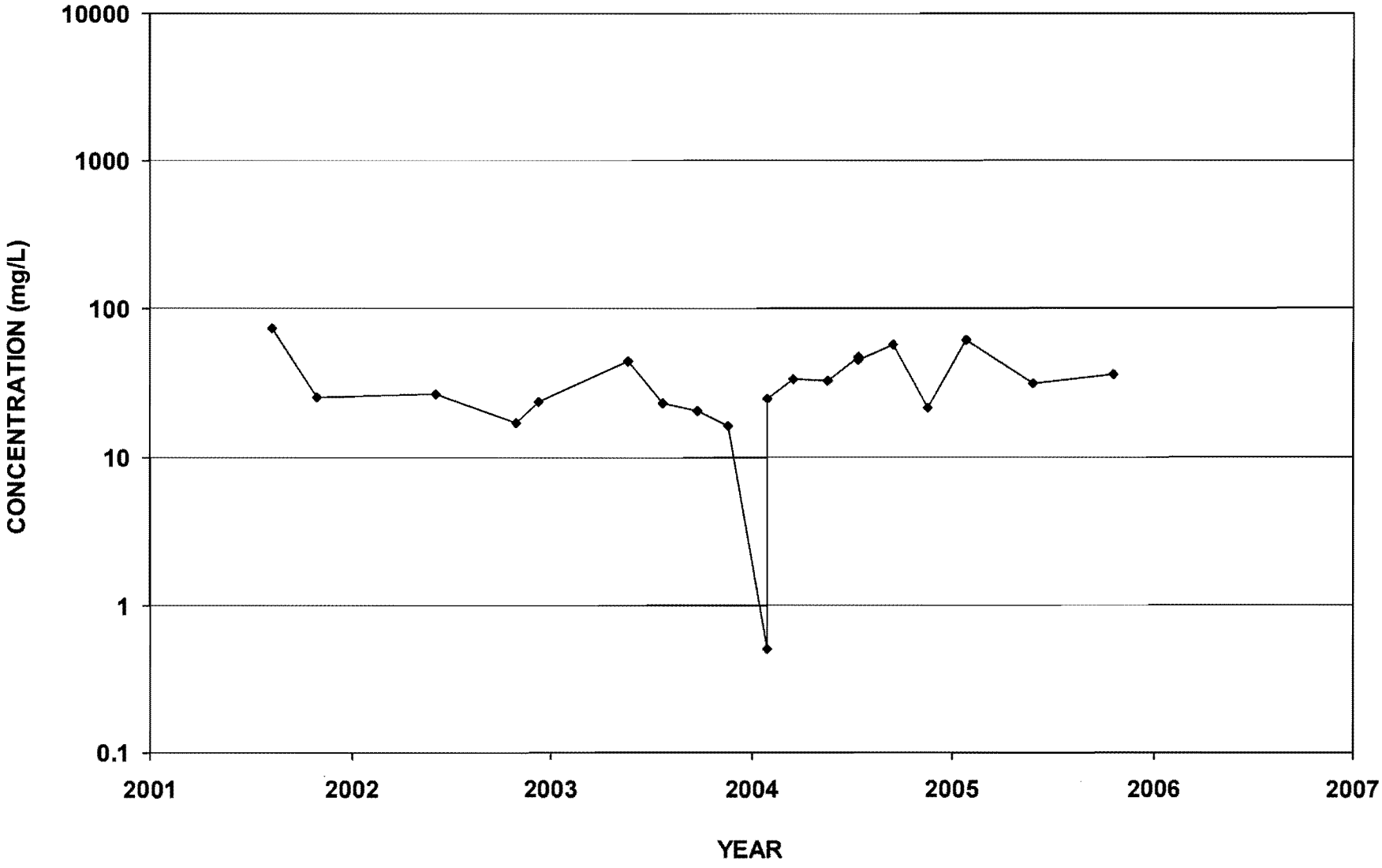
ECMW-12
Nitrate-N

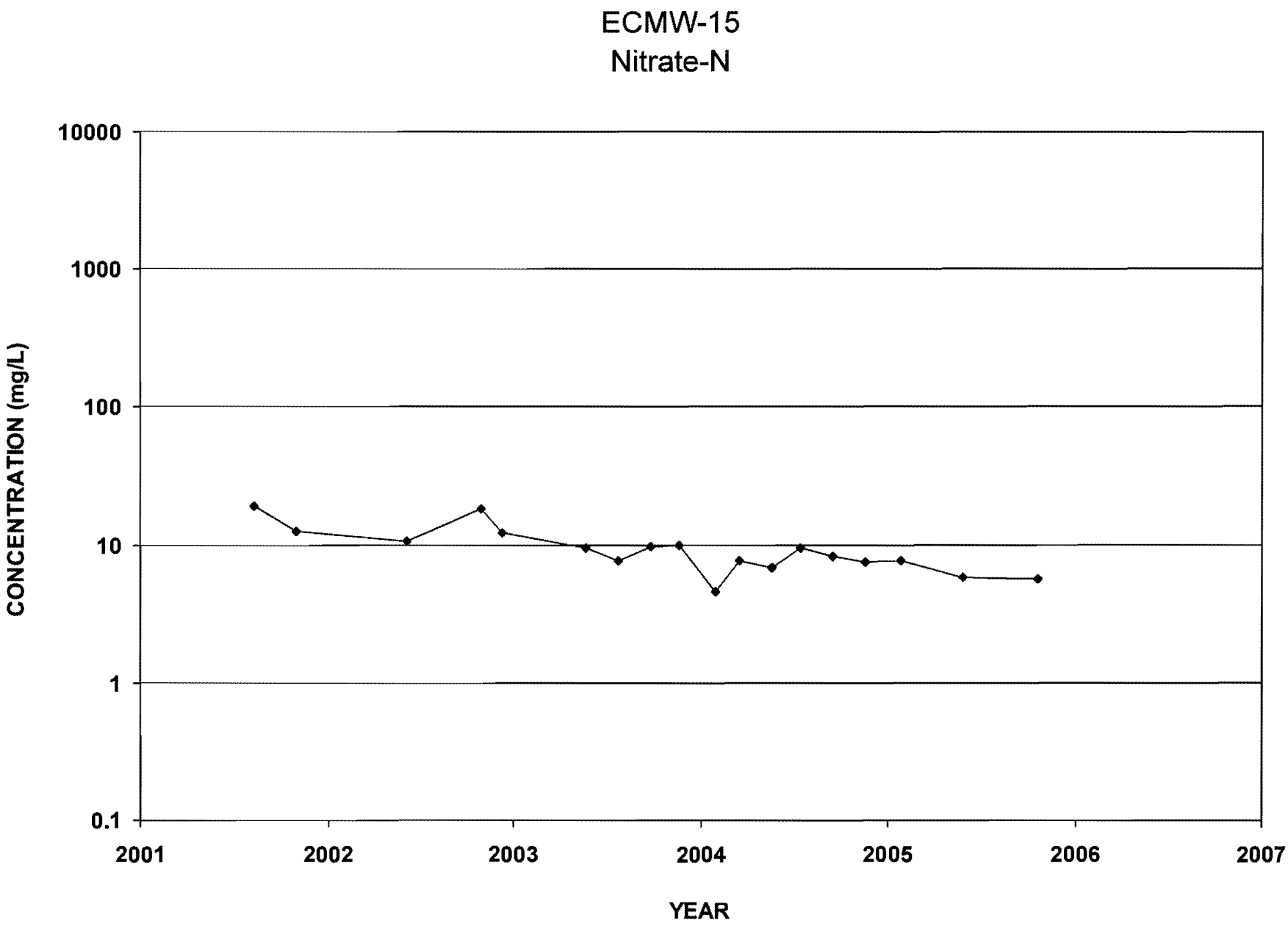


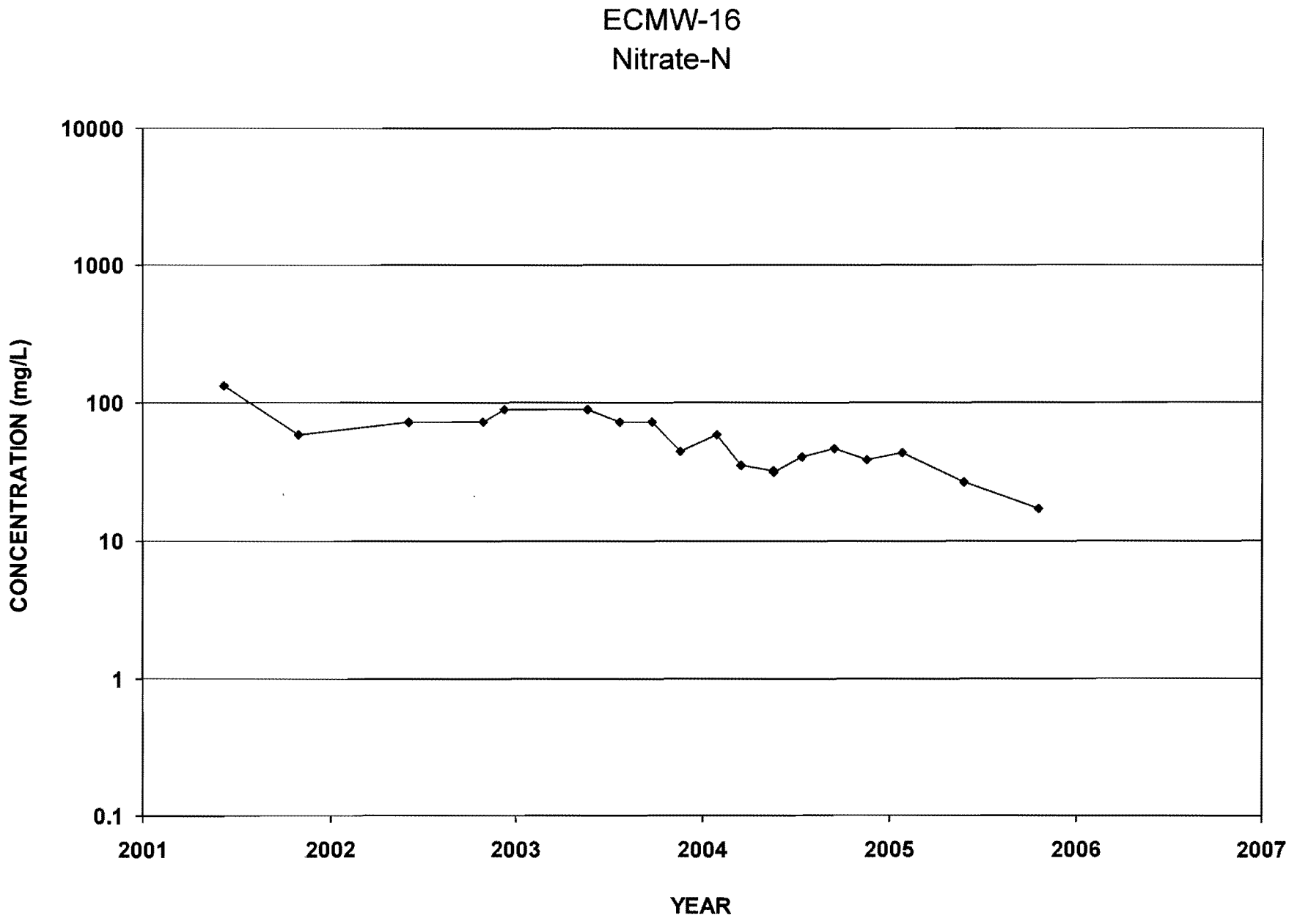
ECMW-13
Nitrate-N



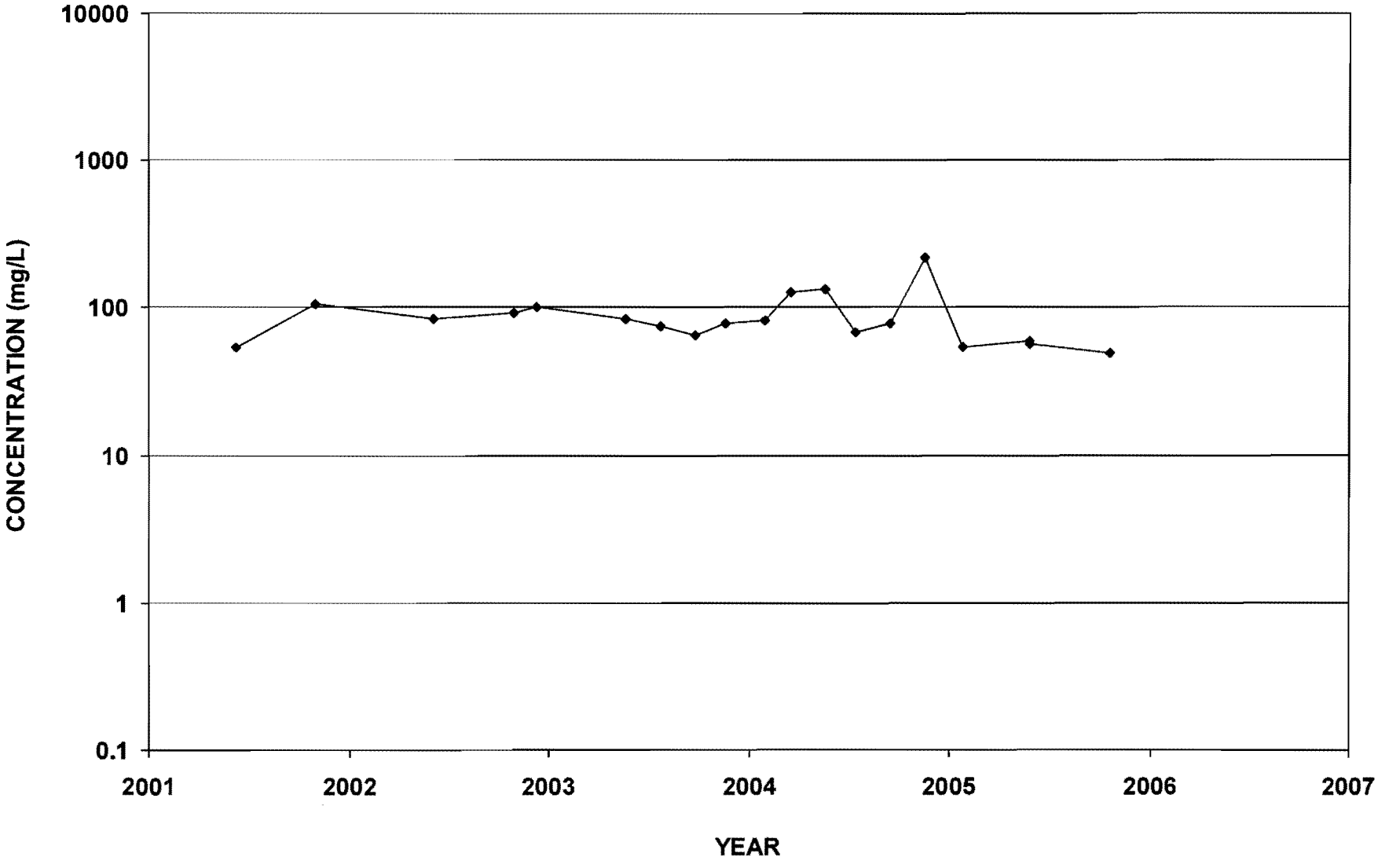
ECMW-14
Nitrate-N



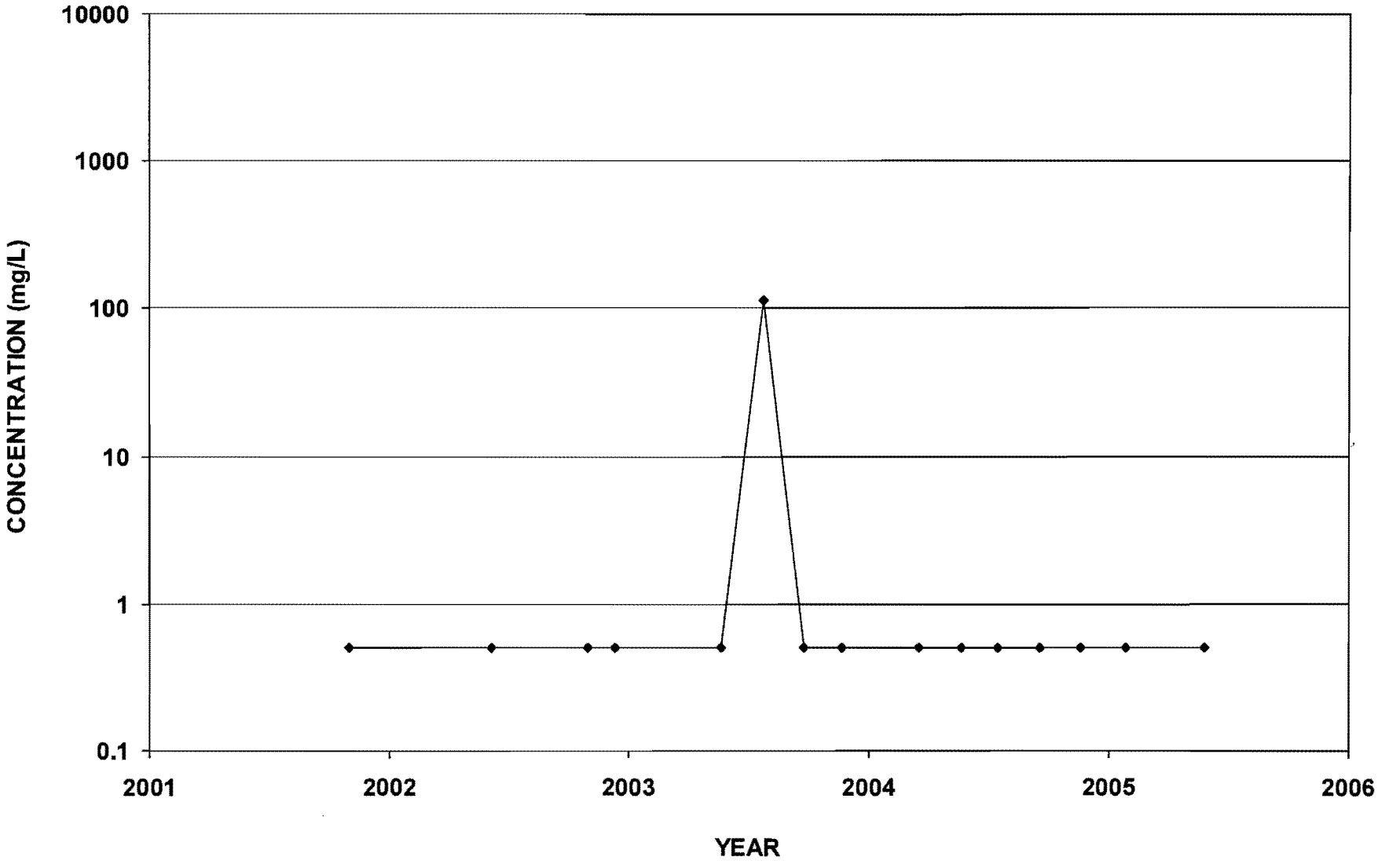

ECMW-15
Nitrate-N
10000
1000
100
10
1
0.1
CONCENTRATION (mg/L)
2001
2002
2003
2004
2005
2006
2007
YEAR


ECMW-16
Nitrate-N
10000
1000
100
10
1
0.1
CONCENTRATION (mg/L)
2001
2002
2003
2004
2005
2006
2007
YEAR

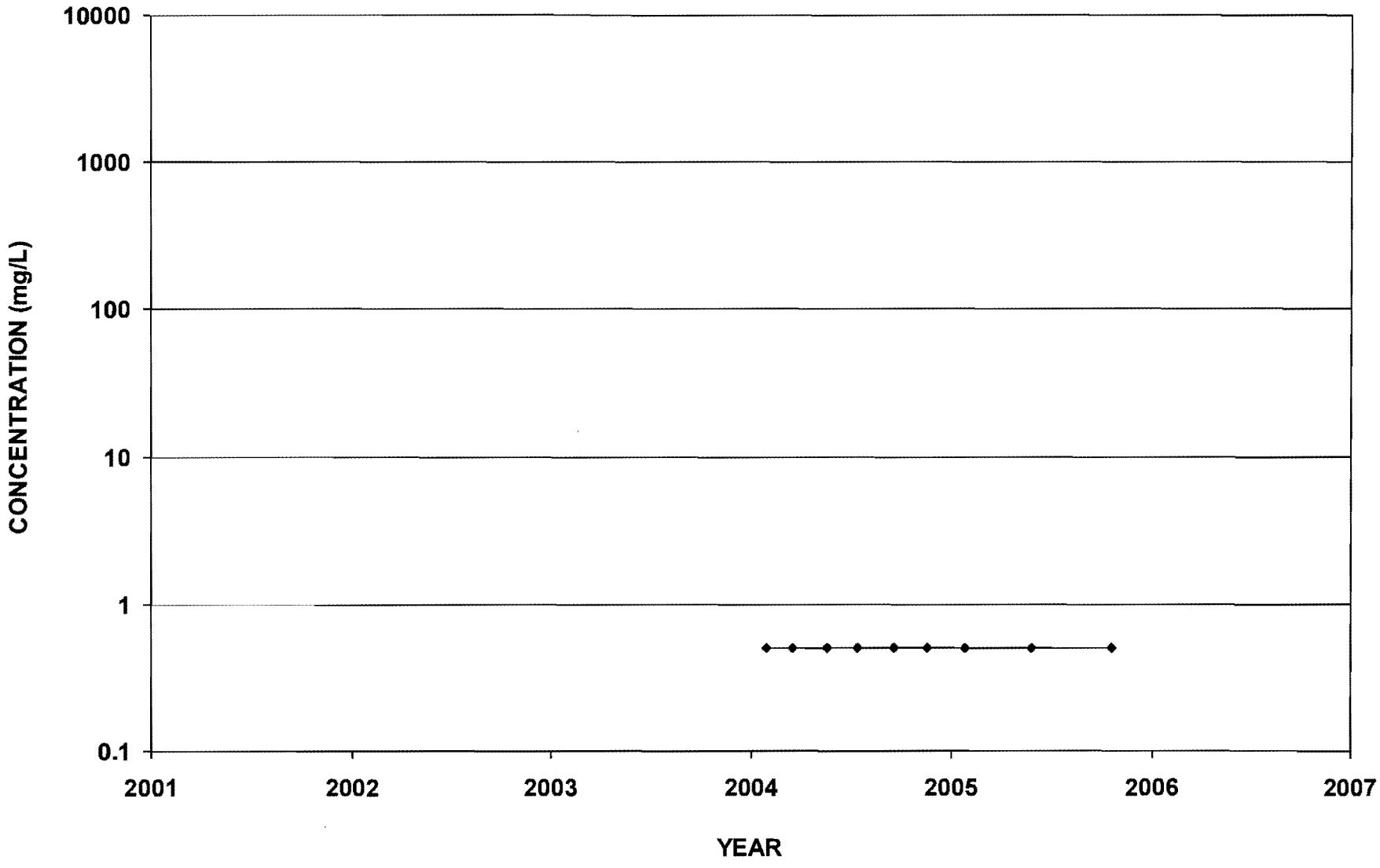
ECMW-17
Nitrate-N

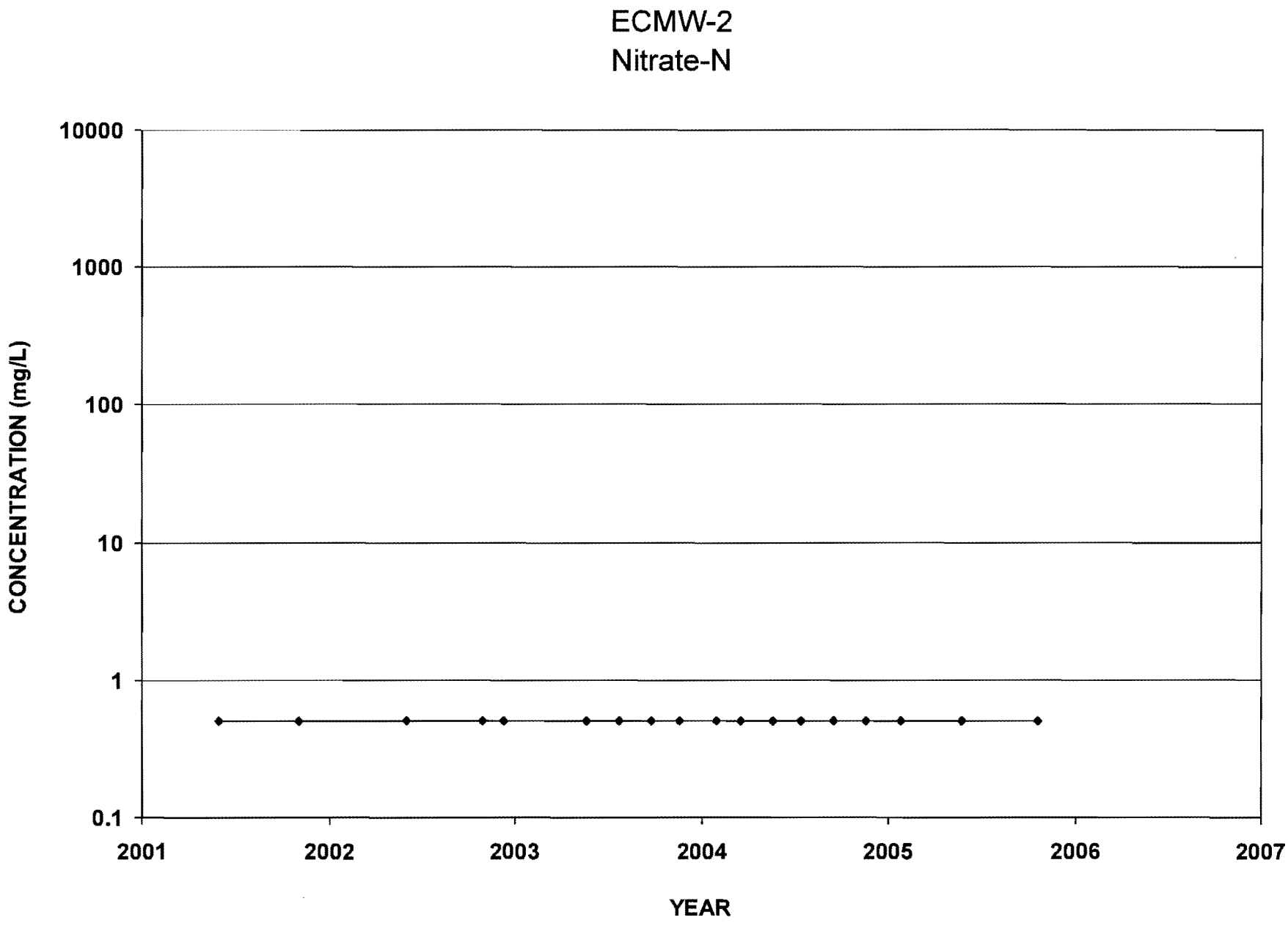


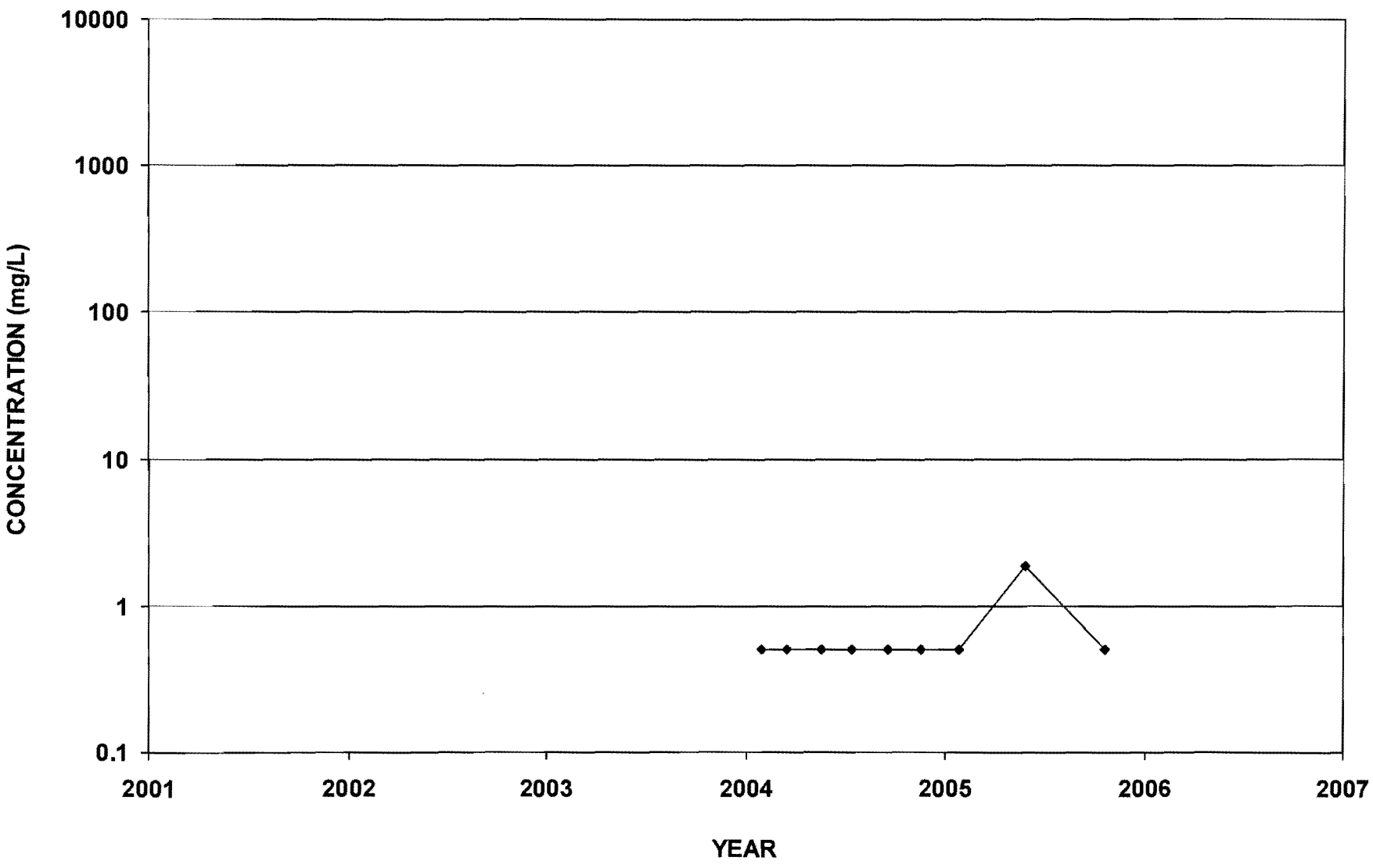
ECMW-18
Nitrate-N



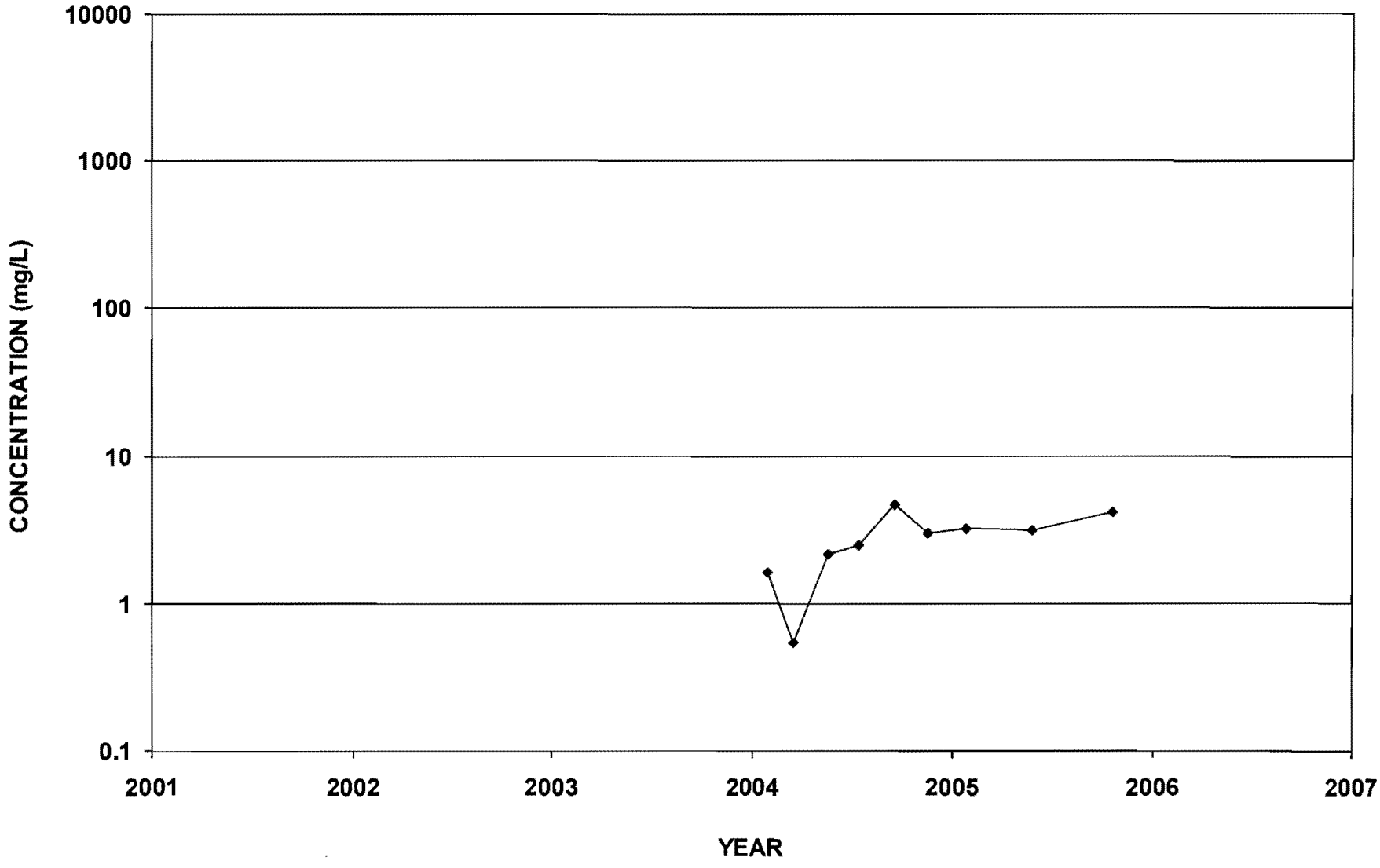
ECMW-19
Nitrate-N



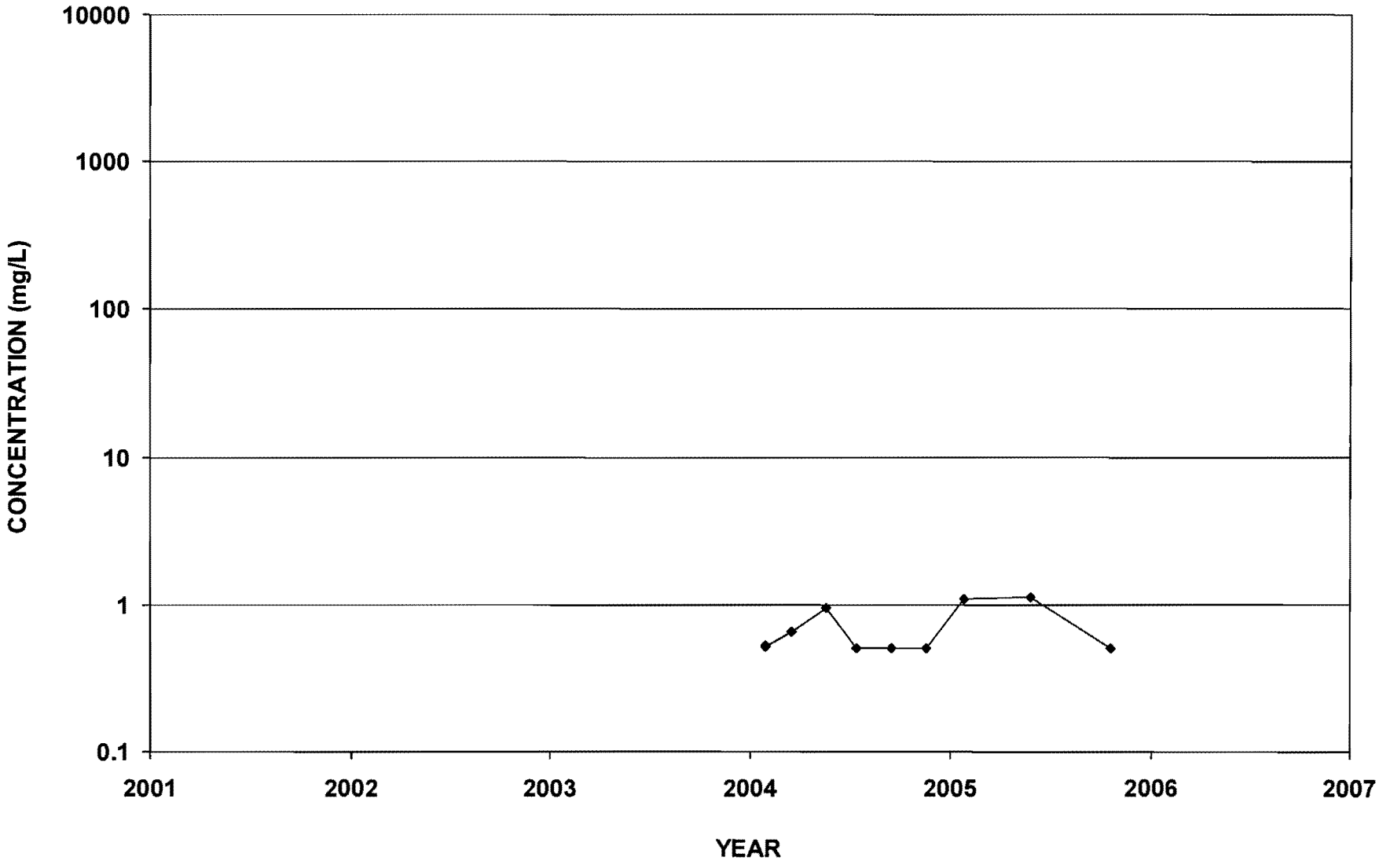

ECMW-2
Nitrate-N
10000
1000
100
10
1
0.1
CONCENTRATION (mg/L)
2001
2002
2003
2004
2005
2006
2007
YEAR


ECMW-20
Nitrate-N
10000
1000
100
10
1
0.1
CONCENTRATION (mg/L)
2001
2002
2003
2004
2005
2006
2007
YEAR

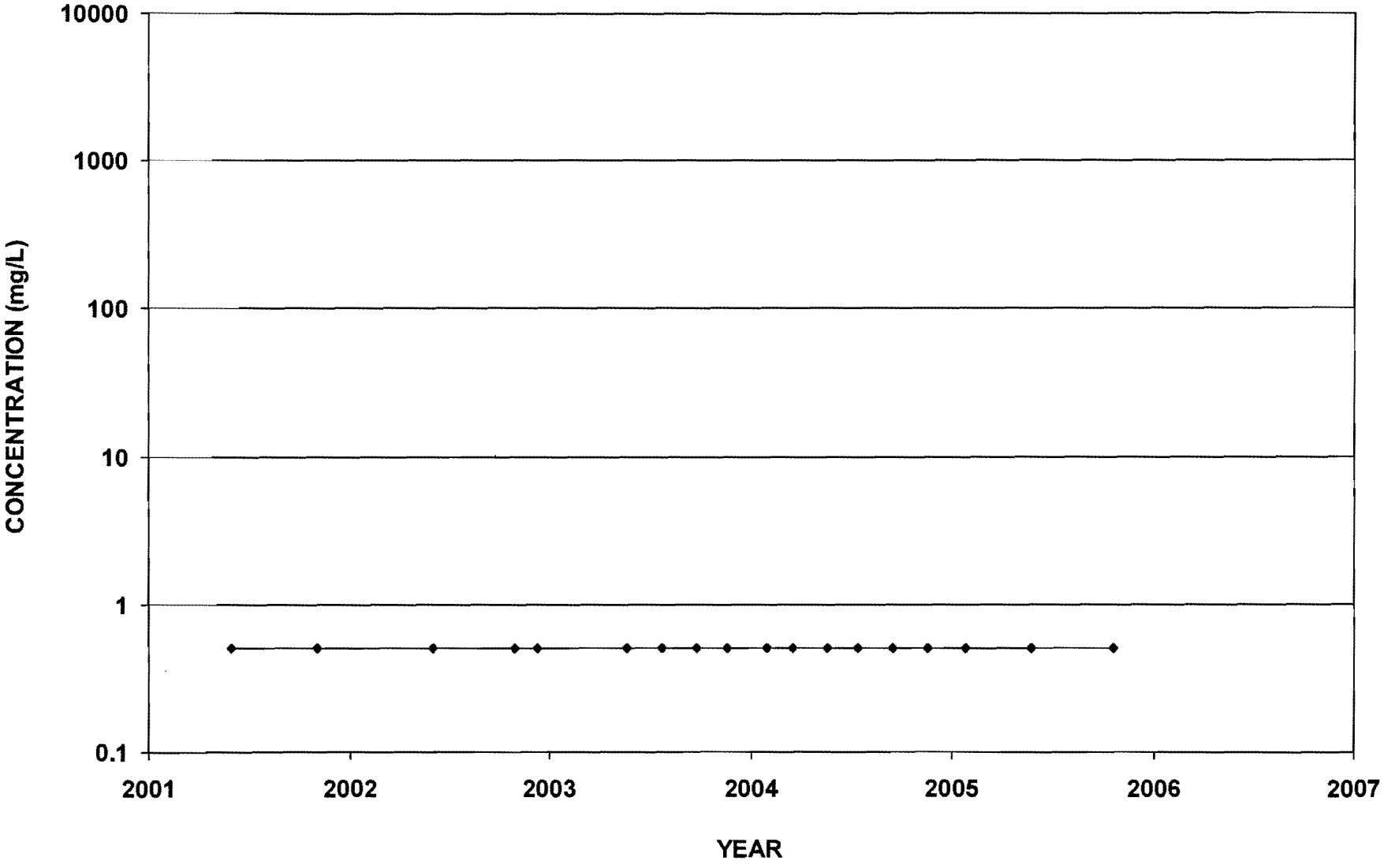
ECMW-21
Nitrate-N



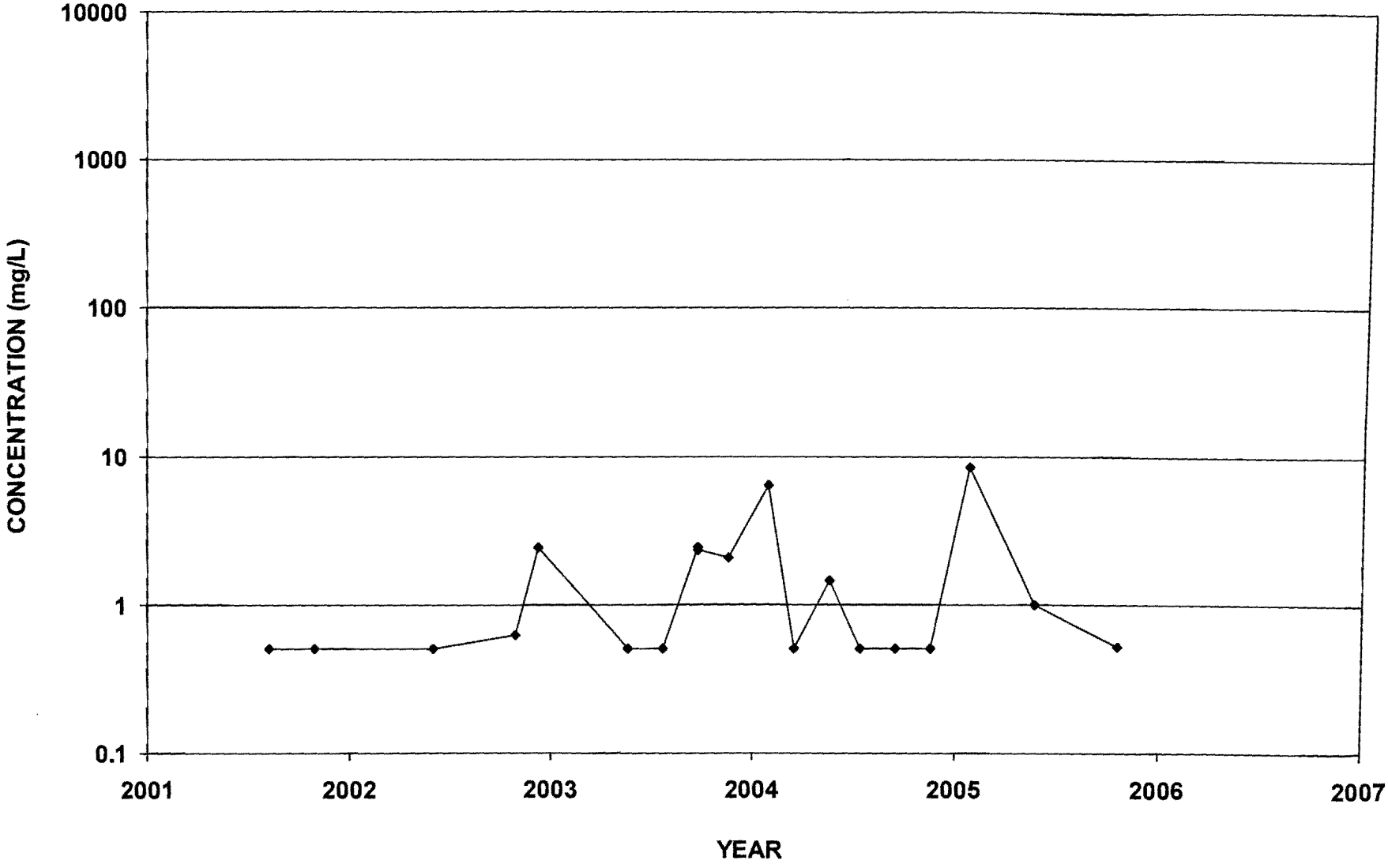
ECMW-22
Nitrate-N

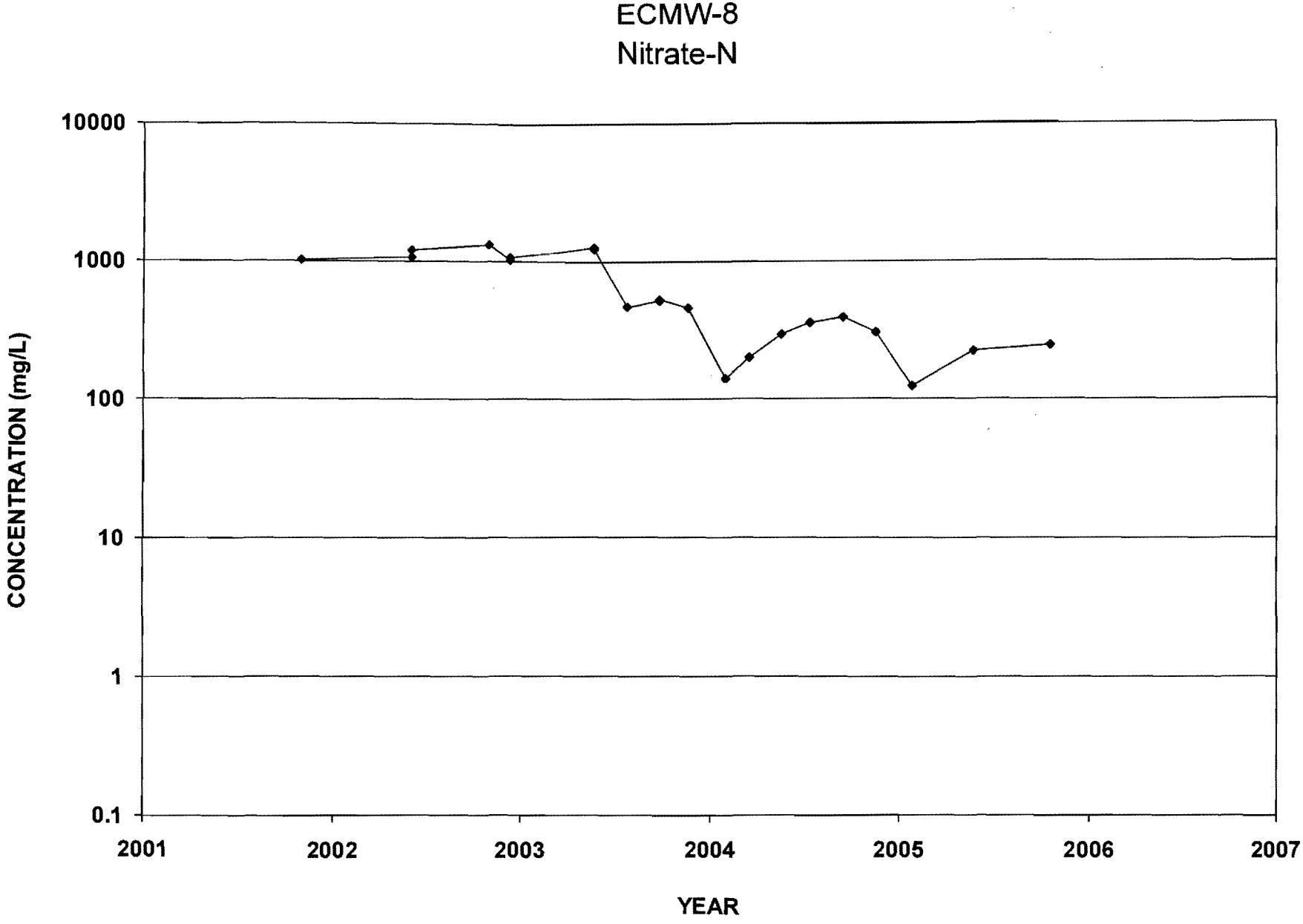


ECMW-3
Nitrate-N

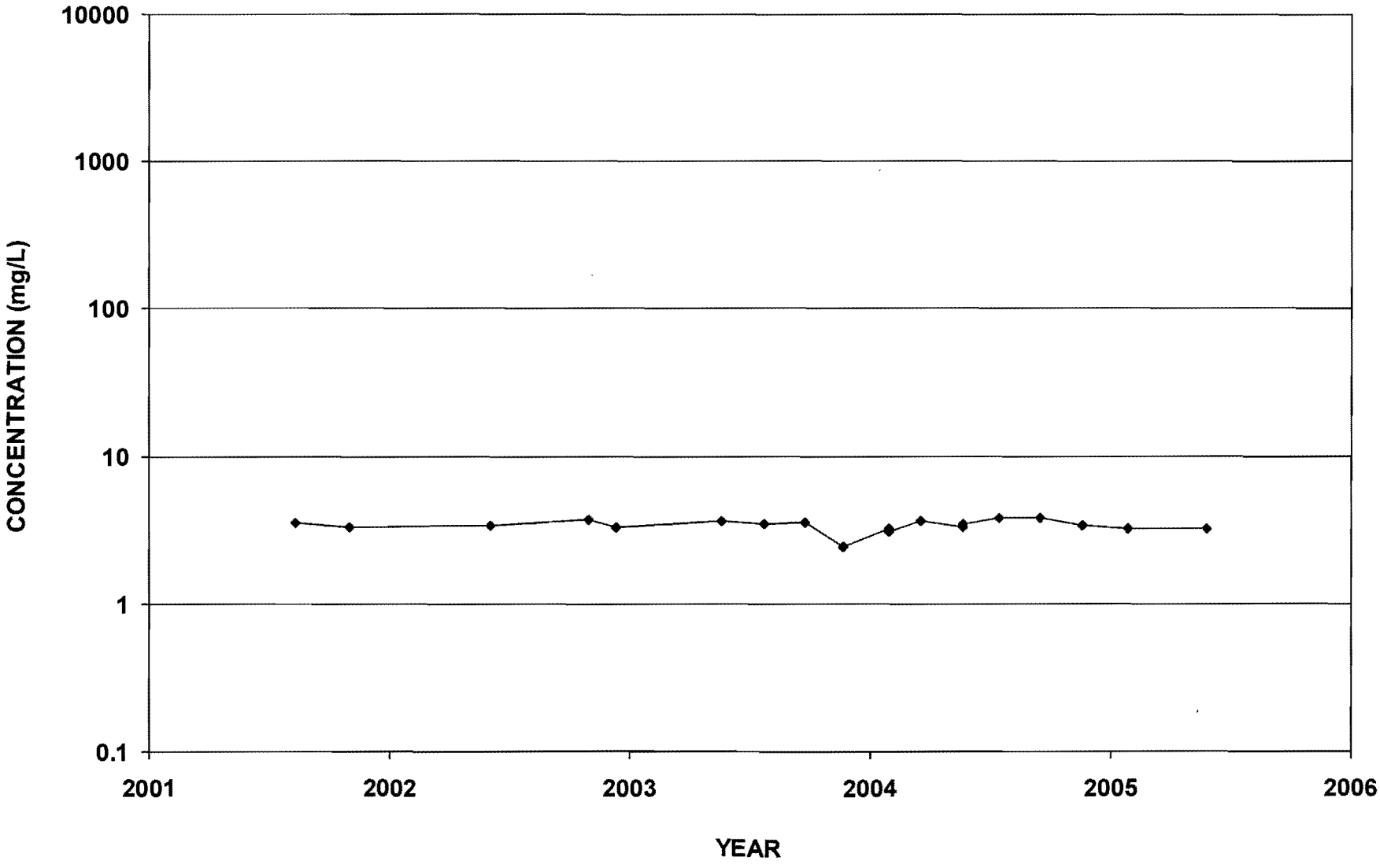


ECMW-4
Nitrate-N

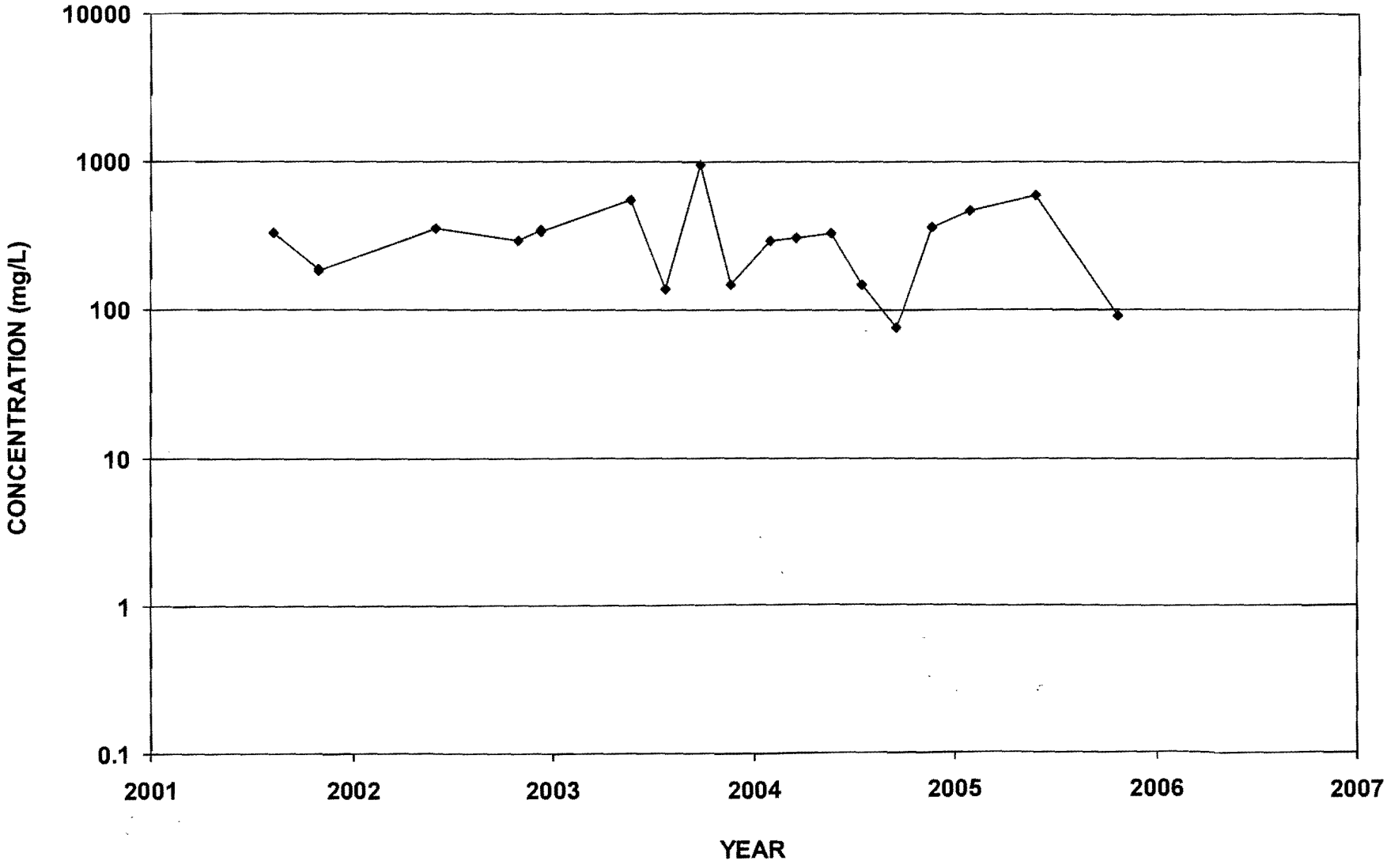


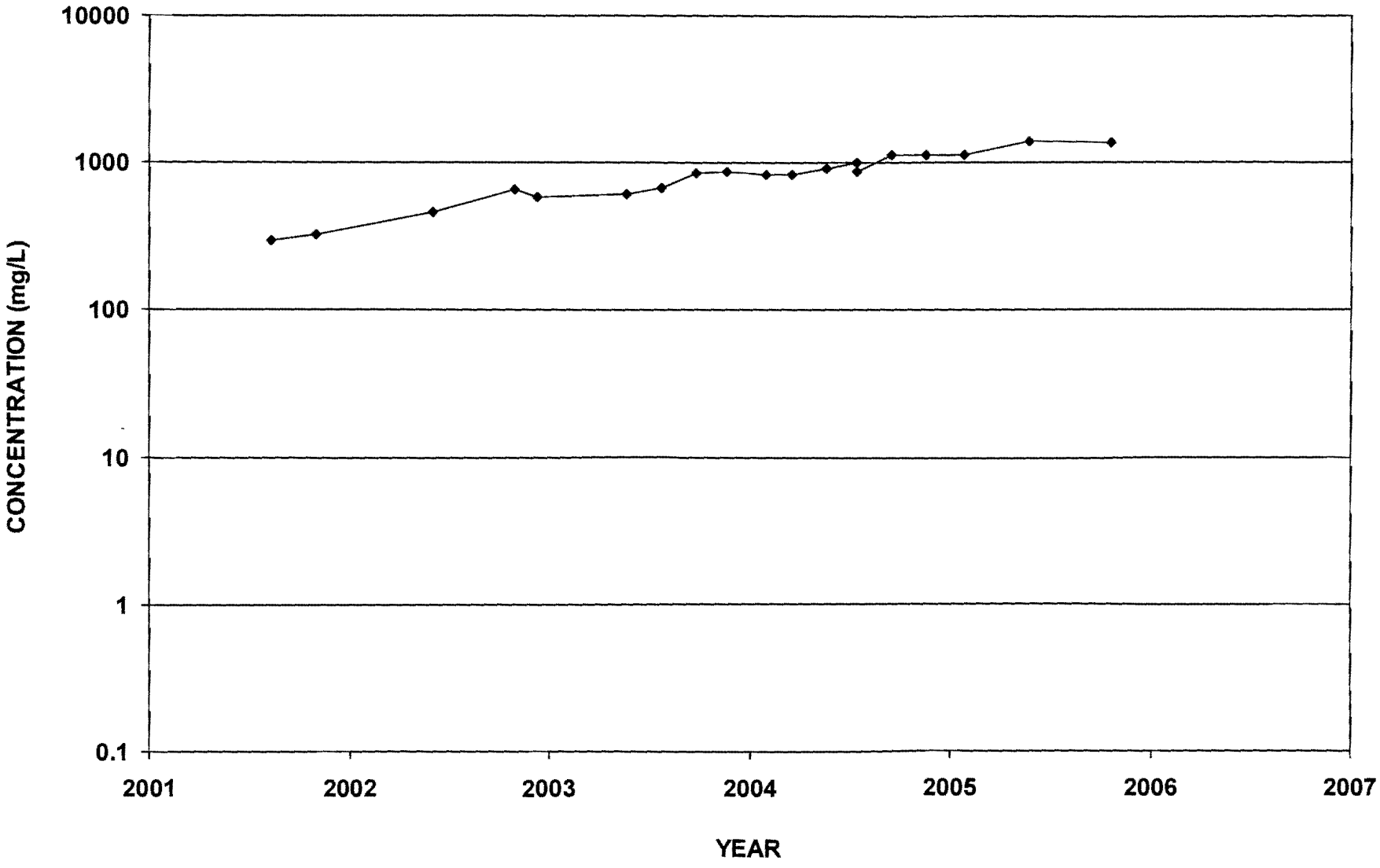

ECMW-8
Nitrate-N
10000
1000
100
10
1
0.1
CONCENTRATION (mg/L)
2001
2002
2003
2004
2005
2006
2007
YEAR

ECMW-5
Nitrate-N

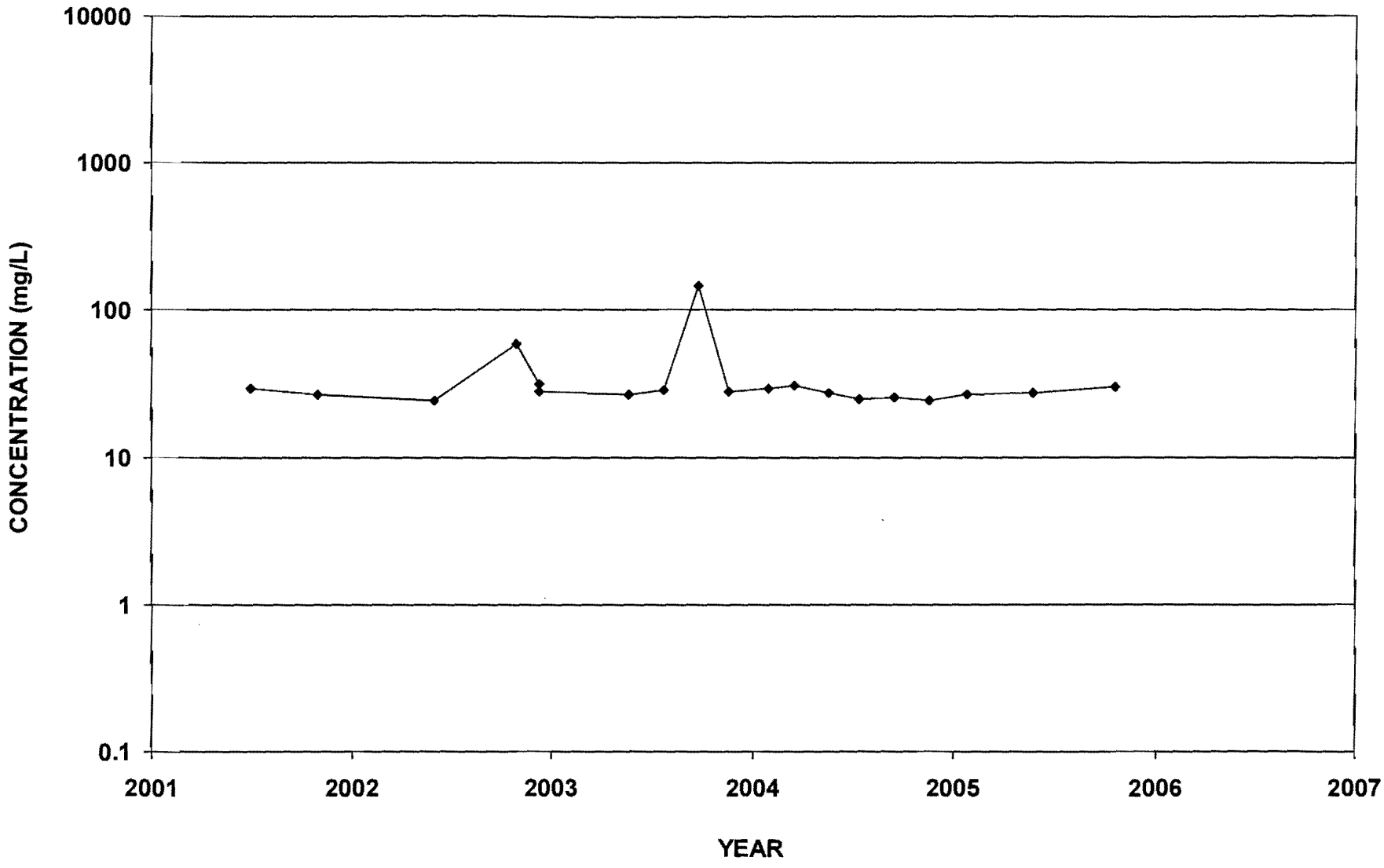


ECMW-7
Nitrate-N




ECMW-6
Nitrate-N
10000
1000
100
10
1
0.1
CONCENTRATION (mg/L)
2001
2002
2003
2004
2005
2006
2007
YEAR

ECMW-9
Nitrate-N



APPENDIX B

LABORATORY ANALYTICAL REPORTS

2/3/2005

Arkansas Analytical Inc.
11701 I-30 Bldg 1, Ste 115 • Little Rock, AR 72209
501-455-3233 • Fax 501-455-6118

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 1st Quarter Groundwaters
Description: Twenty-nine water samples received 1/26,27/05

ANALYTICAL RESULTS

Lab Number:	K501565	K501566	K501567	K501568	K501569
Sample ID:	MW-1	ECMW-10	ECMW-9	ECMW-8	ECMW-7
Date/Time Collected:	1/25/05,0920	1/25/05,0910	1/25/05,0900	1/25/05,0850	1/25/05,0840
Date Received:	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005
Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Wet Chemistry					
Ammonia-N	< 0.5	< 0.5	< 0.5	48.9	281
Date/Time Analyzed	1/27/05,0820	1/27/05,0820	1/27/05,0820	1/27/05,0820	1/27/05,0820
TDS	460	1000	1600	2700	1700
Date/Time Analyzed	1/27/05,0800	1/27/05,0800	1/27/05,0800	1/27/05,0800	1/27/05,0800
Anions					
Nitrate-N	< 0.5	115	26.3	126	480
Sulfate	136	114	518	1200	312
Date/Time Analyzed	1/26/05,1600 1/26/05,1616	1/26/05,1646	1/26/05,1701 1/26/05,1717	1/26/05,1732	1/26/05,1748
Total Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	0.016
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	1/27/05,1000	1/27/05,1000	1/27/05,1000	1/27/05,1000	1/27/05,1000
Dissolved Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	1/31/05,1400	1/31/05,1400	1/31/05,1400	1/31/05,1400	1/31/05,1400

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 1st Quarter Groundwaters
Description: Twenty-nine water samples received 1/26,27/05

ANALYTICAL RESULTS

Lab Number:	K501570	K501571	K501572	K501573	K501574
Sample ID:	ECMW-3	ECMW-4	ECMW-6	ECMW-5	ECMW-1
Date/Time Collected:	1/25/05,0830	1/25/05,0820	1/25/05,0810	1/25/05,0800	1/25/05,0940
Date Received:	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005
Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Wet Chemistry					
Ammonia-N	< 0.5	0.64	43.1	< 0.5	< 0.5
Date/Time Analyzed	1/27/05,0820	1/27/05,0820	1/27/05,0820	1/27/05,0820	1/27/05,0820
TDS	240	4700	6600	870	86
Date/Time Analyzed	1/27/05,0800	1/27/05,0800	1/27/05,0800	1/27/05,0800	1/27/05,0800
Anions					
Nitrate-N	< 0.5	8.50	1130	3.18	2.88
Sulfate	15.8	805	3.14	461	6.69
Date/Time Analyzed	1/26/05,1803	1/26/05,1818 1/26/05,1833	1/26/05,1849 1/27/05,0920	1/26/05,1935 1/26/05,1950	1/26/05,2123
Total Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	1/27/05,1000	1/27/05,1000	1/27/05,1000	1/27/05,1000	1/27/05,1000
Dissolved Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	1/31/05,1400	1/31/05,1400	1/31/05,1400	1/31/05,1400	1/31/05,1400

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 1st Quarter Groundwaters
Description: Twenty-nine water samples received 1/26,27/05

ANALYTICAL RESULTS

Lab Number:	K501575	K501576	K501577	K501578	K501579
Sample ID:	ECMW-2	ECMW-2 Dup	MW-4	MW-3	MW-2
Date/Time Collected:	1/25/05,0950	1/25/05,0950	1/25/05,1000	1/25/05,1010	1/25/05,1020
Date Received:	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/26/2005
Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Wet Chemistry					
Ammonia-N	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
Date/Time Analyzed	1/27/05,0820	1/27/05,0820	1/27/05,0820	1/27/05,0820	1/28/05,0950
TDS	300	300	410	1800	1900
Date/Time Analyzed	1/27/05,0800	1/27/05,0800	1/27/05,0800	1/27/05,0800	1/27/05,0800
Anions					
Nitrate-N	< 0.5	< 0.5	0.64	< 0.5	< 0.5
Sulfate	20.8	20.5	88.5	329	556
Date/Time Analyzed	1/26/05,2138	1/26/05,2154	1/26/05,2209 1/26/05,2240	1/26/05,2255 1/26/05,2310	1/26/05,2326 1/26/05,2341
Total Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	1/27/05,1000	1/27/05,1000	1/27/05,1000	1/27/05,1000	1/27/05,1000
Dissolved Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	1/31/05,1400	1/31/05,1400	1/31/05,1400	1/31/05,1400	1/31/05,1400

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 1st Quarter Groundwaters
Description: Twenty-nine water samples received 1/26,27/05

ANALYTICAL RESULTS

Lab Number:	K501580	K501581	K501582	K501583	K501626
Sample ID:	ECMW-16	ECMW-15	Trip Blank	Field Blank	ECMW-22
Date/Time Collected:	1/25/05,1030	1/25/05,1040	-	1/25/05,1100	1/26/05,0830
Date Received:	1/26/2005	1/26/2005	1/26/2005	1/26/2005	1/27/2005
Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Wet Chemistry					
Ammonia-N	4.15	< 0.5	< 0.5	< 0.5	< 0.5
Date/Time Analyzed	1/28/05,0950	1/28/05,0950	1/28/05,0950	1/28/05,0950	1/28/05,0950
TDS	310	110	< 1.0	1.0	140
Date/Time Analyzed	1/27/05,0800	1/27/05,0800	1/31/05,1600	1/31/05,1600	1/31/05,1600
Anions					
Nitrate-N	43.1	7.62	< 0.5	< 0.5	1.09
Sulfate	8.13	11.8	< 0.5	< 0.5	3.56
Date/Time Analyzed	1/26/05,2357 1/27/05,0012	1/27/05,0028	1/27/05,0043	1/27/05,0059	1/27/05,1228
Total Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	1/27/05,1000	1/27/05,1000	1/27/05,1000	1/27/05,1000	1/28/05,1200
Dissolved Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	1/31/05,1400	1/31/05,1400	1/31/05,1400	1/31/05,1400	2/1/05,0900

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 1st Quarter Groundwaters
Description: Twenty-nine water samples received 1/26,27/05

ANALYTICAL RESULTS

Lab Number:	K501627	K501628	K501629	K501630	K501631
Sample ID:	ECMW-17	ECMW-14	ECMW-12	ECMW-13	ECMW-18
Date/Time Collected:	1/26/05,0840	1/26/05,0850	1/26/05,0910	1/26/05,0900	1/26/05,0925
Date Received:	1/27/2005	1/27/2005	1/27/2005	1/27/2005	1/27/2005
Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Wet Chemistry					
Ammonia-N	1.79	< 0.5	1.98	< 0.5	< 0.5
Date/Time Analyzed	1/28/05,0950	1/28/05,0950	1/28/05,0950	1/28/05,0950	1/28/05,0950
TDS	360	930	360	1200	1000
Date/Time Analyzed	1/31/05,1600	1/31/05,1600	1/31/05,1600	1/31/05,1600	1/31/05,1600
Anions					
Nitrate-N	53.3	62.4	< 0.5	0.72	< 0.5
Sulfate	12.2	204	4.88	564	5.13
Date/Time Analyzed	1/27/05,1243	1/27/05,1258	1/27/05,1329	1/27/05,1344 1/27/05,1359	1/27/05,1415
Total Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	0.055
Lead	< 0.015	< 0.015	< 0.015	< 0.015	0.056
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	0.099
Date/Time Analyzed	1/28/05,1200	1/28/05,1200	1/28/05,1200	1/28/05,1200	1/28/05,1200
Dissolved Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	0.022
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	0.031
Date/Time Analyzed	2/1/05,0900	2/1/05,0900	2/1/05,0900	2/1/05,0900	2/1/05,0900

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 1st Quarter Groundwaters
Description: Twenty-nine water samples received 1/26,27/05

ANALYTICAL RESULTS

Lab Number:	K501632	K501633	K501634	K501635
Sample ID:	ECMW-19	ECMW-20	ECMW-21	Field Blank
Date/Time Collected:	1/26/05,0940	1/26/05,0950	1/26/05,1030	1/26/05,1100
Date Received:	1/27/2005	1/27/2005	1/27/2005	1/27/2005
Units:	mg/L	mg/L	mg/L	mg/L
Wet Chemistry				
Ammonia-N	< 0.5	< 0.5	4.06	< 0.5
Date/Time Analyzed	1/28/05,0950	1/28/05,0950	1/28/05,0950	1/28/05,0950
TDS	100	160	77	< 1.0
Date/Time Analyzed	1/31/05,1600	1/31/05,1600	1/31/05,1600	1/31/05,1600
Anions				
Nitrate-N	< 0.5	< 0.5	3.23	< 0.5
Sulfate	3.67	13.8	2.88	< 0.5
Date/Time Analyzed	1/27/05,1141	1/27/05,1430	1/27/05,1445	1/27/05,1500
Total Metals				
Chromium	< 0.02	< 0.02	0.044	< 0.02
Lead	< 0.015	0.017	0.020	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	1/28/05,1200	1/28/05,1200	1/28/05,1200	1/28/05,1200
Dissolved Metals				
Chromium	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	2/1/05,0900	2/1/05,0900	2/1/05,0900	2/1/05,0900

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 1st Quarter Groundwaters
Description: Twenty-nine water samples received 1/26,27/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Lab Numbers: K501565-78					
Wet Chemistry	**mg/L**				
Ammonia-N	< 0.5	0.00	106	106	EPA 350.3
Lab Numbers: K501579-83,626-35					
Wet Chemistry	**mg/L**				
Ammonia-N	< 0.5	0.438	102	103	EPA 350.3
Lab Numbers: K501565-81					
Wet Chemistry	**mg/L**				
TDS	< 1.0	11.1	NA	92.8	EPA 160.1
Lab Numbers: K501582-83,626-35					
Wet Chemistry	**mg/L**				
TDS	< 1.0	1.64	NA	85.5	EPA 160.1
Batch Number: K5008					
Lab Numbers: K501565-73					
Anions	**mg/L**				
Nitrate-N	< 0.5	0.723	96.0	96.8	SW 9056
Sulfate	< 0.5	0.523	100	95.6	SW 9056

NA means not analyzed.
Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 1st Quarter Groundwaters
Description: Twenty-nine water samples received 1/26,27/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Batch Number: K5009					
Lab Numbers: K501574-83					
Anions	**mg/L**				
Nitrate-N	< 0.5	0.308	96.8	97.4	SW 9056
Sulfate	< 0.5	0.104	95.8	96.6	SW 9056
Batch Number: K5010					
Lab Numbers: K501626-35					
Anions	**mg/L**				
Nitrate-N	< 0.5	0.257	94.8	97.4	SW 9056
Sulfate	< 0.5	0.133	96.5	93.9	SW 9056
Batch Number: 0127W					
Lab Numbers: K501565-83					
Total Metals	**mg/L**				
Chromium	< 0.02	0.676/0.842	88.7	95.0	SW 6010B
Lead	< 0.015	0.00/2.12	85.4	94.2	SW 6010B
Vanadium	< 0.02	0.525/2.11	95.3	95.0	SW 6010B
Batch Number: 0128W					
Lab Numbers: K501626-35					
Total Metals	**mg/L**				
Chromium	< 0.02	1.16/1.45	86.3	96.5	SW 6010B
Lead	< 0.015	2.17/0.951	92.2	105	SW 6010B
Vanadium	< 0.02	1.14/0.519	87.5	96.3	SW 6010B

Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 1st Quarter Groundwaters
Description: Twenty-nine water samples received 1/26,27/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Batch Number: 0131WDISS					
Lab Numbers: K501565-83					
Dissolved Metals	**mg/L**				
Chromium	< 0.02	0.472/2.38	84.8	92.3	SW 6010B
Lead	< 0.015	2.10/1.24	85.7	96.8	SW 6010B
Vanadium	< 0.02	2.80/0.514	89.3	97.3	SW 6010B
Batch Number: 0201WDISS					
Lab Numbers: K501626-35					
Dissolved Metals	**mg/L**				
Chromium	< 0.02	0.418/0.00	95.8	96.8	SW 6010B
Lead	< 0.015	2.58/0.644	93.0	93.1	SW 6010B
Vanadium	< 0.02	1.62/0.00	92.8	93.0	SW 6010B

Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Ammonia-N analyzed by: Melissa Green
Melissa Green

TDS analyzed by: Trip Tennison
Trip Tennison

Anions analyzed by: Tracy Bounds ② Joel Ledbetter
Tracy Bounds, Joel Ledbetter

Metals analyzed by: Wendy Harston
Wendy Harston

Arkansas Analytical Inc.

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Billing	Project Description	Turnaround Time
El Dorado Chemical Inc.	El Dorado Chemical Inc.		(CIRCLE ONE)
4500 Northwest Ave.	P.O. Box 231	Reporting Information	24 hour
El Dorado, AR 71731	El Dorado, AR 71731	Telephone: 1-870-863-1484	48 hour
		FAX: 1-870-863-1499	routine
Attn:		Bill to/P.O.	Preservative Code:
			Bottle Type

Preservation Codes:

1. Cool, 4 degrees Centigrade
2. Sulfuric Acid, pH <2
3. Nitric Acid, pH <2
4. Thiosulfate for dechlorination
5. Hydrochloric Acid for VOA
6. Sodium Hydroxide, pH >12

TEST PARAMETERS

Preservative Code:	1	1,3	1,2							Bottle type code
Bottle Type	P	P	P							G=glass;P=HDPE
										V=septum;A=amber
Samplers:(Signature/s)	K. Durham EMS INC									
Samplers:(Printed)	K. DURHAM EMS INC									
	TDS, NO3, SO4, d Pb, d Cr, d V	T Pb, T Cr, T V	NH3							

Field Number	Sample Collection Date/s	Time/s	Grab	Comp	# of Containers	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	Arkansas Analytical Lab #
~~1~~	~~1-25~~	~~9;30~~	✓		~~3~~		~~ECMW-11~~	~~K501564~~
2		9;20	✓		3		MW-1	565
3		9;10	✓		3		ECMW-10	566
4		9;00	✓		3		ECMW-9	567
5		8;50	✓		3		ECMW-8	568
6		8;40	✓		3		ECMW-7	569
7		8;30	✓		3		ECMW-3	570
8		8;20	✓		3		ECMW-4	571
9		8;10	✓		3		ECMW-6	572
10		8;00	✓		3		ECMW-5	573
11		9;40	✓		3		ECMW-1	574
12		9;50	✓		3		ECMW-2	575

1 Relinquished by:(Signature)	Date/Time	1.Received by:(Signature)
K. Durham	1-25-05 12;00	Velocity
2.Relinquished by:(Signature)	Date/Time	2.Received by laboratory :(Signature)
Velocity	1-26-05, 1130	Sydney James

For completion by laboratory

Condition of samples:	yes	no
A. Containers Correct:?	✓	
B. Preservation Correct:?	✓	
C. Seals Intact:?	✓	

REMARKS

Void ECMW-11 per Wes Morgan, did not receive sample.

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Billing
El Dorado Chemical Inc.	El Dorado Chemical Inc.
4500 Northwest Ave.	P.O. Box 231
El Dorado, AR 71731	El Dorado, AR 71731
Attn:	

Project Description

Reporting Information
Telephone: 1-870-863-1484
FAX: 1-870-863-1499
Bill to/P.O.

Turnaround Time (CIRCLE ONE)
24 hour
48 hour
routine

Preservation Codes:
1. Cool, 4 degrees Centigrade
2. Sulfuric Acid, pH <2
3. Nitric Acid, pH <2
4. Thiosulfate for dechlorination
5. Hydrochloric Acid for VOA
6. Sodium Hydroxide, pH >12

Samplers:(Signature/s): R Durham EMSINC.

Samplers:(Printed): R DURHAM

Field Number	Sample Collection Date/s	Time/s	Grab	Comp	# of Containers	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	TEST PARAMETERS: Preservative Code	1	1,3	1,2	Bottle type code G=glass;P=HDPE V=septum;A=amber	Arkansas Analytical Lab #
								Bottle Type	P	P	P		
									TDS, NO3, SO4, AP, d Cr, d V	T Pb, T Cr, T V	NH3		
13	1-25	9:50	✓		3		ECMW-2 DUP		✓	✓	✓		K501576
14		10:00	✓		3		MW-4						577
15		10:10	✓		3		MW-3						578
16		10:20	✓		3		MW-2						579
17		10:30	✓		3		ECMW-16						580
18		10:40	✓		3		ECMW-15						581
19			✓		3		TRIP BLANK						582
20		11:00	✓		3		FIELD BLANK						583

1 Relinquished by:(Signature)	Date/Time	1.Received by:(Signature)
R. Durham	1-25-05 12:00	Velocity
2.Relinquished by:(Signature)	Date/Time	2.Received by laboratory :(Signature)
Velocity	1-26-05, 1130	Sydney James

For completion by laboratory

Condition of samples:	yes	no
A. Containers Correct:?	✓	
B. Preservation Correct:?	✓	
C. Seals Intact:?	✓	

REMARKS
MW-4 sample bottles have MW-1 on them. The date/time collected are correct though.

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Billing
El Dorado Chemical Inc.	El Dorado Chemical Inc.
4500 Northwest Ave.	P.O. Box 231
El Dorado, AR 71731	El Dorado, AR 71731
Attn:	

Project Description	Turnaround Time (CIRCLE ONE)
	24 hour
Reporting Information	48 hour
Telephone: 1-870-863-1484	routine
FAX: 1-870-863-1499	Preservative Code:
Bill to/P.O.	Bottle Type

Preservation Codes:

1. Cool, 4 degrees Centigrade
2. Sulfuric Acid, pH <2
3. Nitric Acid, pH <2
4. Thiosulfate for dechlorination
5. Hydrochloric Acid for VOA
6. Sodium Hydroxide, pH >12

Rodney Durham
EMS Inc.

Samplers:(Signature/s)

R. Durham

Samplers:(Printed)

Field Number	Sample Collection Date/s	Sample Collection Time/s	Grab	Comp	# of Containers	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	TEST PARAMETERS: 1 P: TDS, NO3, SO4, d Pb, d Cr, dV	1,2 P: NH3	1,3 P: P, Cr, V	Arkansas Analytical Lab #
1	1-26-05	8:30	✓		3		ECMW-22	✓	✓	✓	K501626
2		8:40	✓		3		ECMW-17	↓	↓	↓	627
3		8:50	✓		3		ECMW-14				628
4		9:10	✓		3		ECMW-12				629
5		9:00	✓		3		ECMW-13				630
6		9:25	✓		3		ECMW-18				631
7		9:40	✓		3		ECMW-19				632
8		9:50	✓		3		ECMW-20				633
9		10:30	✓		3		ECMW-21				634
10		11:00	✓		3		FIELD BLANK	↓	↓	↓	635

1 Relinquished by:(Signature)	Date/Time	1.Received by:(Signature)
R. Durham	1-26-05 11:30	Velocity
2.Relinquished by:(Signature)	Date/Time	2.Received by laboratory :(Signature)
Velocity	1-27-05, 1032	Sydney James

For completion by laboratory

Condition of samples:	yes	no
A. Containers Correct:?	✓	
B. Preservation Correct:?	✓	
C. Seals Intact:?	✓	

REMARKS

ARKANSAS ANALYTICAL, INC. ** 11701 I-30, Bldg 1, Suite 115**Little Rock, Arkansas 72209**phone(501)455-3233**Fax(501)455-6118

6/13/2005

Arkansas Analytical Inc.

11701 I-30 Bldg 1, Ste 115 • Little Rock, AR 72209
501-455-3233 • Fax 501-455-6118

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Twenty-eight water samples received 5/25,26/05

ANALYTICAL RESULTS

Lab Number:	K505958	K505959	K505960	K505961	K505962
Sample ID:	Field Blank	ECMW-9	ECMW-8	ECMW-7	ECMW-6
Date/Time Collected:	5/24/05,1045	5/24/05,1030	5/24/05,1015	5/24/05,1000	5/24/05,0945
Date Received:	5/25/2005	5/25/2005	5/25/2005	5/25/2005	5/25/2005
Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Wet Chemistry					
Ammonia-N	< 0.5	< 0.5	79.6	323	68.2
Date/Time Analyzed	5/27/05,1700	5/27/05,1700	5/27/05,1700	5/27/05,1700	5/27/05,1700
TDS	< 1.0	1600	2700	1400	6700
Date/Time Analyzed	5/27/05,1630	5/27/05,1630	5/27/05,1630	5/27/05,1630	5/27/05,1630
Anions					
Nitrate-N	< 0.5	27.4	225	595	1410
Sulfate	< 0.5	600	1220	349	5.19
Date/Time Analyzed	5/25/05,1724	5/25/05,1754 5/25/05,1809	5/25/05,1825 5/25/05,1840	5/25/05,1855	5/25/05,1926 5/25/05,1910
Total Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	0.018	< 0.015	0.022	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	5/26/05,1400	5/26/05,1400	5/26/05,1400	5/26/05,1400	5/26/05,1400
Dissolved Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	0.017	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	6/1/05,0830	6/1/05,0830	6/1/05,0830	6/1/05,0830	6/1/05,0830

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Twenty-eight water samples received 5/25,26/05

ANALYTICAL RESULTS

Lab Number:	K505963	K505964	K505965	K505966	K505967
Sample ID:	ECMW-5	ECMW-4	ECMW-3	ECMW-2	ECMW-1
Date/Time Collected:	5/24/05,0930	5/24/05,0915	5/24/05,0900	5/24/05,0845	5/24/05,0830
Date Received:	5/25/2005	5/25/2005	5/25/2005	5/25/2005	5/25/2005
Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Wet Chemistry					
Ammonia-N	3.62	2.14	0.980	0.790	0.550
Date/Time Analyzed	5/27/05,1700	5/27/05,1700	5/27/05,1700	5/27/05,1700	5/27/05,1700
TDS	820	4700	200	290	52
Date/Time Analyzed	5/27/05,1630	5/27/05,1630	5/27/05,1630	5/27/05,1630	5/27/05,1630
Anions					
Nitrate-N	3.21	0.997	< 0.5	< 0.5	2.45
Sulfate	547	1020	11.8	22.9	4.39
Date/Time Analyzed	5/25/05,1941 5/25/05,2011	5/25/05,2027 5/25/05,2042	5/25/05,2057	5/25/05,2112	5/25/05,2103
Total Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	5/26/05,1400	5/26/05,1400	5/26/05,1400	5/26/05,1400	5/26/05,1400
Dissolved Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	6/1/05,0830	6/1/05,0830	6/1/05,0830	6/1/05,0830	6/1/05,0830

6/13/2005

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Twenty-eight water samples received 5/25,26/05

ANALYTICAL RESULTS

Lab Number:	**K505968**	**K505969**	**K505970**	**K505971**	**K5051040**
Sample ID:	**ECMW-1 Dup**	**MW-3**	**MW-2**	**MW-1**	**Field Blank**
Date/Time Collected:	**5/24/05,0830**	**5/24/05,0815**	**5/24/05,0805**	**5/24/05,0745**	**5/25/05,1140**
Date Received:	**5/25/2005**	**5/25/2005**	**5/25/2005**	**5/25/2005**	**5/26/2005**
Units:	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
Wet Chemistry					
Ammonia-N	< 0.5	1.98	1.17	0.72	< 0.5
Date/Time Analyzed	5/31/05,1600	5/31/05,1600	5/31/05,1600	5/31/05,1600	5/31/05,1600
TDS	52	1800	2000	410	4
Date/Time Analyzed	5/27/05,1630	5/27/05,1630	5/27/05,1630	5/27/05,1630	5/27/05,1630
Anions					
Nitrate-N	2.39	< 0.5	< 0.5	0.579	< 0.5
Sulfate	4.43	370	858	130	< 0.5
Date/Time Analyzed	5/25/05,2158	5/25/05,2213 5/25/05,2229	5/25/05,2259 5/25/05,2314	5/25/05,2330 5/25/05,2345	5/26/05,1527
Total Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	0.055	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	5/26/05,1400	5/26/05,1400	5/26/05,1400	5/26/05,1400	5/26/05,1430
Dissolved Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	6/1/05,0830	6/1/05,0830	6/1/05,0830	6/1/05,0830	6/1/05,1000

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Twenty-eight water samples received 5/25,26/05

ANALYTICAL RESULTS

Lab Number:	K5051041	K5051042	K5051043	K5051044	K5051045
Sample ID:	ECMW-19	ECMW-18	ECMW-12	ECMW-13	ECMW-14
Date/Time Collected:	5/25/05,1130	5/25/05,1115	5/25/05,1100	5/25/05,1045	5/25/05,1030
Date Received:	5/26/2005	5/26/2005	5/26/2005	5/26/2005	5/26/2005
Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Wet Chemistry					
Ammonia-N	< 0.5	< 0.5	1.02	0.54	< 0.5
Date/Time Analyzed	5/31/05,0930	5/31/05,0930	5/31/05,0930	5/31/05,0930	5/31/05,0930
TDS	120	700	370	580	700
Date/Time Analyzed	5/27/05,1630	5/27/05,1630	5/27/05,1630	5/31/05,2230	5/31/05,2230
Anions					
Nitrate-N	< 0.5	< 0.5	< 0.5	< 0.5	31.0
Sulfate	4.56	5.18	11.2	302	204
Date/Time Analyzed	5/26/05,1457	5/26/05,1442	5/26/05,1426	5/26/05,1351 5/26/05,1407	5/26/05,1336
Total Metals					
Chromium	< 0.02	0.032	< 0.02	< 0.02	< 0.02
Lead	< 0.015	0.018	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	0.048	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	5/26/05,1430	5/26/05,1430	5/26/05,1430	5/26/05,1430	5/26/05,1430
Dissolved Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	0.030	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	6/1/05,1000	6/1/05,1000	6/1/05,1000	6/1/05,1000	6/1/05,1000

6/13/2005

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Twenty-eight water samples received 5/25,26/05

ANALYTICAL RESULTS

Lab Number:	K5051046	K5051047	K5051048	K5051049	K5051050
Sample ID:	ECMW-15	ECMW-16	ECMW-17	ECMW-17 Dup	ECMW-22
Date/Time Collected:	5/25/05,1015	5/25/05,1000	5/25/05,0945	5/25/05,0945	5/25/05,0930
Date Received:	5/26/2005	5/26/2005	5/26/2005	5/26/2005	5/26/2005
Units:	mg/L	mg/L	mg/L	mg/L	mg/L
Wet Chemistry					
Ammonia-N	< 0.5	7.62	< 0.5	< 0.5	< 0.5
Date/Time Analyzed	5/31/05,0930	5/31/05,0930	5/31/05,0930	5/31/05,0930	5/31/05,0930
TDS	79	110	390	440	130
Date/Time Analyzed	5/31/05,2230	5/31/05,2230	5/31/05,2230	5/31/05,2230	5/31/05,2230
Anions					
Nitrate-N	5.79	26.8	56.4	58.4	1.12
Sulfate	16.1	10.2	19.1	4.27	3.61
Date/Time Analyzed	5/26/05,1321	5/26/05,1235	5/26/05,1205	5/26/05,1149 5/26/05,1527	5/26/05,1134
Total Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	5/26/05,1430	5/26/05,1430	5/26/05,1430	5/26/05,1430	5/26/05,1430
Dissolved Metals					
Chromium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	6/1/05,1000	6/1/05,1000	6/1/05,1000	6/1/05,1000	6/1/05,1000

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Twenty-eight water samples received 5/25,26/05

ANALYTICAL RESULTS

Lab Number:	K5051051	K5051052	K5051053
Sample ID:	ECMW-11	ECMW-10	MW-4
Date/Time Collected:	5/25/05,0915	5/25/05,0900	5/25/05,0845
Date Received:	5/26/2005	5/26/2005	5/26/2005
Units:	mg/L	mg/L	mg/L
Wet Chemistry			
Ammonia-N	20.6	1.45	< 0.5
Date/Time Analyzed	6/1/05,0920	6/1/05,0920	6/1/05,0920
TDS	410	990	370
Date/Time Analyzed	5/31/05,2230	5/31/05,2230	5/31/05,2230
Anions			
Nitrate-N	1.12	120	< 0.5
Sulfate	3.58	142	127
Date/Time Analyzed	5/26/05,1119	5/2/05,1104	5/26/05,1033 5/26/05,1048
Total Metals			
Chromium	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	5/26/05,1430	5/26/05,1430	5/26/05,1430
Dissolved Metals			
Chromium	< 0.02	< 0.02	< 0.02
Lead	< 0.015	< 0.015	< 0.015
Vanadium	< 0.02	< 0.02	< 0.02
Date/Time Analyzed	6/1/05,1000	6/1/05,1000	6/1/05,1000

6/13/2005

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Twenty-eight water samples received 5/25,26/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Lab Number(s): K505958-67					
Wet Chemistry	**mg/L**				
Ammonia-N	< 0.5	0.384	105	104	EPA 350.3
Lab Number(s): K505968-71,1040-50					
Wet Chemistry	**mg/L**				
Ammonia-N	< 0.5	1.55	100	97.0	EPA 350.3
Lab Number(s): K5051051-53					
Wet Chemistry	**mg/L**				
Ammonia-N	< 0.5	0.398	97.6	100	EPA 350.3
Lab Number(s): K505958-71,1040-43					
Wet Chemistry	**mg/L**				
TDS	< 1.0	2.51	NA	94.7	EPA 160.1
Lab Number(s): K5051044-53					
Wet Chemistry	**mg/L**				
TDS	< 1.0	12.4	NA	95.7	EPA 160.1

NA means not analyzed.
Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Twenty-eight water samples received 5/25,26/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Batch Number: 0525W					
Lab Number(s): K505958-71					
Anions	**mg/L**				
Nitrate-N	< 0.5	0.284	103	101	SW 9056
Sulfate	< 0.5	1.06	97.0	96.7	SW 9056
Batch Number: 0526W					
Lab Number(s): K5051040-53					
Anions	**mg/L**				
Nitrate-N	< 0.5	0.00	104	102	SW 9056
Sulfate	< 0.5	0.259	96.6	96.6	SW 9056
Batch Number: 0526WEDC1					
Lab Number(s): K505958-78					
Total Metals	**mg/L**				
Chromium	< 0.02	3.46/0.425	92.4	94.2	SW 6010B
Lead	< 0.015	3.85/1.10	88.7	90.9	SW 6010B
Vanadium	< 0.02	3.92/1.10	89.3	91.0	SW 6010B
Batch Number: 0526WEDCS					
Lab Number(s): K5051040-53					
Total Metals	**mg/L**				
Chromium	< 0.02	0.660/0.870	90.9	92.0	SW 6010B
Lead	< 0.015	0.920/0.228	87.4	87.9	SW 6010B
Vanadium	< 0.02	1.13/0.00	88.0	89.5	SW 6010B

Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

6/13/2005

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Twenty-eight water samples received 5/25,26/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Batch Number: 0601WEDC1					
Lab Number(s): K505958-71					
Dissolved Metals	**mg/L**				
Chromium	< 0.02	0.217/1.08	92.3	92.7	SW 6010B
Lead	< 0.015	1.57/2.63	88.9	91.5	SW 6010B
Vanadium	< 0.02	1.68/2.21	89.3	90.5	SW 6010B
Batch Number: 0601WEDC2					
Lab Number(s): K5051040-53					
Dissolved Metals	**mg/L**				
Chromium	< 0.02	0.443/0.436	90.2	91.8	SW 6010B
Lead	< 0.015	0.459/0.901	86.8	88.8	SW 6010B
Vanadium	< 0.02	1.14/1.12	88.0	89.0	SW 6010B

Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Ammonia-N analyzed by: Melissa Green, Jennifer Morales

TDS analyzed by: Trip Tennison

Anions analyzed by: Joel Ledbetter

Metals analyzed by: Wendy Harston

Arkansas Analytical Inc.

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Billing
El Dorado Chemical Inc.	El Dorado Chemical Inc.
4500 Northwest Ave.	P.O. Box 231
El Dorado, AR 71731	El Dorado, AR 71731
Attn: Wes Morgan	

Project Description	Turnaround Time
Groundwaters	(CIRCLE ONE)
Reporting Information	24 hour
Telephone: 1-870-863-1484	48 hour
FAX: 1-870-863-1499	routine
Bill to/P.O. #:	Preservative Code:
	Bottle Type

Preservation Codes:

1. Cool, 4 degrees Centigrade
2. Sulfuric Acid, pH <2
3. Nitric Acid, pH <2
4. Thiosulfate for dechlorination
5. Hydrochloric Acid for VOA
6. Sodium Hydroxide, pH >12

TEST PARAMETERS									Bottle type code
1,2	1,3	1							G=glass;P=HDPE
P	P	P							V=septum;A=amber
Ammonia	Cr, Pb, V	TDS, Nitrate, Sulfate, d Cr, d Pb, d V							

R. Durham
EMS INC.
Samplers:(Signature/s)

R. DURHAM
EMS Inc.
Samplers:(Printed)

Field Number	Sample Collection Date/s	Sample Collection Time/s	Grab	Comp	# of Containers	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	Arkansas Analytical Lab #
1	5-24-05	10:45	✓		3		FIELD BLANK	K505958
2		10:30	✓		3		ECMW-9	959
3		10:15	✓		3		ECMW-8	960
4		10:00	✓		3		ECMW-7	961
5		9:45	✓		3		ECMW-6	962
6		9:30	✓		3		ECMW-5	963
7		9:15	✓		3		ECMW-4	964
8		9:00	✓		3		ECMW-3	965
9		8:45	✓		3		ECMW-2	966
10		8:30	✓		3		ECMW-1	967
11		8:30	✓		3		ECMW-1 DUP	968
12		8:15	✓		3		MW-3	969

1 Relinquished by:(Signature)	Date/Time	1.Received by:(Signature)
		Velocity
2.Relinquished by:(Signature)	Date/Time	2.Received by laboratory :(Signature)
Velocity	5/25/05, 1154	Sydney James

For completion by laboratory

Condition of samples:	yes	no
A. Containers Correct:?	✓	
B. Preservation Correct:?	✓	
C. Seals Intact:?	✓	

REMARKS

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Billing	Project Description	Turnaround Time
El Dorado Chemical Inc.	El Dorado Chemical Inc.	Groundwaters	(CIRCLE ONE)
4500 Northwest Ave.	P.O. Box 231	Reporting Information	24 hour
El Dorado, AR 71731	El Dorado, AR 71731	Telephone: 1-870-863-1484	48 hour
		FAX: 1-870-863-1499	routine
Attn: Wes Morgan		Bill to/P.O. #:	Preservative Code:
			Bottle Type

Preservation Codes:

1. Cool, 4 degrees Centigrade
2. Sulfuric Acid, pH <2
3. Nitric Acid, pH <2
4. Thiosulfate for dechlorination
5. Hydrochloric Acid for VOA
6. Sodium Hydroxide, pH >12

Samplers:(Signature/s)

Samplers:(Printed)

Field Number	Sample Collection Date/s	Sample Collection Time/s	Grab	Comp	# of Containers	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	TEST PARAMETERS: Ammonia (1,2 / P)	Cr, Pb, V (1,3 / P)	TDS, Nitrate, Sulfate, d Cr, d Pb, d V (1 / P)	Arkansas Analytical Lab #
13	5-24-05	8:05	←		3		MW-2				K505970
14	"	7:45	←		3		MW-1				971

Bottle type code: G=glass;P=HDPE; V=septum;A=amber

1 Relinquished by:(Signature)	Date/Time	1.Received by:(Signature)
R. Lambert EMSTAC	5-24-05 11:30	Velocity
2.Relinquished by:(Signature)	Date/Time	2.Received by laboratory :(Signature)
Velocity	5-25-05, 1154	Sydney James

For completion by laboratory

Condition of samples:	yes	no
A. Containers Correct:?	✓	
B. Preservation Correct:?	✓	
C. Seals Intact:?	✓	

REMARKS

ARKANSAS ANALYTICAL, INC. ** 11701 I-30, Bldg 1, Suite 115**Little Rock, Arkansas 72209**phone(501)455-3233**Fax(501)455-6118

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Billing
El Dorado Chemical Inc.	El Dorado Chemical Inc.
4500 Northwest Ave.	P.O. Box 231
El Dorado, AR 71731	El Dorado, AR 71731
Attn: Wes Morgan	

Project Description: Groundwaters

Reporting Information
Telephone: 1-870-863-1484
FAX: 1-870-863-1499
Bill to/P.O. #:

Turnaround Time (CIRCLE ONE): 24 hour / 48 hour / routine

Preservation Codes:
1. Cool, 4 degrees Centigrade
2. Sulfuric Acid, pH <2
3. Nitric Acid, pH <2
4. Thiosulfate for dechlorination
5. Hydrochloric Acid for VOA
6. Sodium Hydroxide, pH >12

R. Durham EMSINC.
Samplers:(Signature/s)

RODNEY DURHAM EMSINC.
Samplers:(Printed)

Field Number	Sample Collection Date/s	Sample Collection Time/s	Grab	Comp	# of Containers	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	TEST PARAMETERS: Ammonia	Cr, Pb, V	TDS, Nitrate, Sulfate, d Cr, d Pb, d V						Arkansas Analytical Lab #
							Bottle type code: G=glass;P=HDPE V=septum;A=amber									
							Preservative Code:	1,2	1,3	1						
							Bottle Type	P	P	P						
1	5-25-05	11:40	✓		3		FIELD BLANK									K5051040
2		11:30	✓		3		EcMW-19									1041
3		11:15	✓		3		EcMW-18									1042
4		11:00	✓		3		EcMW-12									1043
5		10:45	✓		3		EcMW-13									1044
6		10:30	✓		3		EcMW-14									1045
7		10:15	✓		3		EcMW-15									1046
8		10:00	✓		3		EcMW-16									1047
9		9:45	✓		3		ECMW-17									1048
10		9:45	✓		3		EcMW-17 DUP									1049
11		9:30	✓		3		EcMW-22									1050
12		9:15	✓		3		EcMW-11									1051

1 Relinquished by:(Signature)	Date/Time	1.Received by:(Signature)
		Velocity
2.Relinquished by:(Signature)	Date/Time	2.Received by laboratory :(Signature)
Velocity	5-26-05, 0819	Sydney James

For completion by laboratory

Condition of samples:	yes	no
A. Containers Correct:?	✓	
B. Preservation Correct:?	✓	
C. Seals Intact:?	✓	

REMARKS

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Billing	Project Description	Turnaround Time
El Dorado Chemical Inc.	El Dorado Chemical Inc.	Groundwaters	(CIRCLE ONE)
4500 Northwest Ave.	P.O. Box 231	Reporting Information	24 hour
El Dorado, AR 71731	El Dorado, AR 71731	Telephone: 1-870-863-1484	48 hour
		FAX: 1-870-863-1499	routine
Attn: Wes Morgan		Bill to/P.O. #:	Preservative Code:
			Bottle Type

Preservation Codes:

1. Cool, 4 degrees Centigrade
2. Sulfuric Acid, pH <2
3. Nitric Acid, pH <2
4. Thiosulfate for dechlorination
5. Hydrochloric Acid for VOA
6. Sodium Hydroxide, pH >12

TEST PARAMETERS									Bottle type code
1,2	1,3	1							G=glass;P=HDPE
P	P	P							V=septum;A=amber

R. Durham
EMS Inc
Samplers:(Signature/s)

RODNEY DURHAM
EMS Inc.
Samplers:(Printed)

Field Number	Sample Collection Date/s	Sample Collection Time/s	Grab	Comp	# of Containers	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	Ammonia	Cr, Pb, V	TDS, Nitrate, Sulfate, cl Cr, cl Pb, cl V	Arkansas Analytical Lab #
13	5-25-05	9:00	✓		3		EC MW-10				K5D51052
14		8:45	✓		3		MW-4				1053

1 Relinquished by:(Signature)	Date/Time	1.Received by:(Signature)
R. Durham EMS Inc.	5-25-05 11:45	Velocity
2.Relinquished by:(Signature)	Date/Time	2.Received by laboratory :(Signature)
Velocity	5-26-05 0819	Sydney James

For completion by laboratory

Condition of samples:	yes	no
A. Containers Correct:?	✓	
B. Preservation Correct:?	✓	
C. Seals Intact:?	✓	

REMARKS

ARKANSAS ANALYTICAL, INC. ** 11701 I-30, Bldg 1, Suite 115**Little Rock, Arkansas 72209**phone(501)455-3233**Fax(501)455-6118

6/15/2005

Arkansas Analytical Inc.

11701 I-30 Bldg 1, Ste 115 • Little Rock, AR 72209
501-455-3233 • Fax 501-455-6118

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Two water samples received 6/9/05

ANALYTICAL RESULTS

Lab Number:		**K506256**	**K506257**
Sample ID:		**ECMW-21**	**ECMW-20**
Date/Time Collected:		**6/8/05,1030**	**6/8/05,1100**
Wet Chemistry			
Ammonia-N	mg/L	< 0.5	< 0.5
Date/Time Analyzed		6/13/05,1100	6/13/05,1100
TDS	mg/L	58	110
Date/Time Analyzed		6/10/05,1600	6/10/05,1600
Anions			
Nitrate-N	mg/L	3.61	< 0.5
Sulfate	mg/L	3.47	15.7
Date/Time Analyzed		6/9/05,1759	6/9/05,1814
Total Metals			
Chromium	mg/L	0.040	< 0.02
Lead	mg/L	0.015	0.027
Vanadium	mg/L	< 0.02	< 0.02
Date/Time Analyzed		6/9/05,1400	6/9/05,1400
Dissolved Metals			
Chromium	mg/L	< 0.02	< 0.02
Lead	mg/L	< 0.015	< 0.015
Vanadium	mg/L	< 0.02	< 0.02
Date/Time Analyzed		6/10/05,0845	6/10/05,0845

6/15/2005

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Two water samples received 6/9/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Wet Chemistry	**mg/L**				
Ammonia-N	< 0.5	0.384	116	105	EPA 350.3
Wet Chemistry	**mg/L**				
TDS	< 1.0	1.28	NA	103	EPA 160.1
Anions	**mg/L**				
Nitrate-N	< 0.5	0.484	105	103	SW 9056
Sulfate	< 0.5	1.46	95.1	103	SW 9056
Total Metals	**mg/L**				
Chromium	< 0.02	0.00/0.424	87.4	94.4	SW 6010B
Lead	< 0.015	1.11/0.403	89.7	99.2	SW 6010B
Vanadium	< 0.02	0.200/0.00	84.3	92.0	SW 6010B

NA means not analyzed.
Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

6/15/2005

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Two water samples received 6/9/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Dissolved Metals	**mg/L**				
Chromium	< 0.02	0.00/0.864	91.8	92.6	SW 6010B
Lead	< 0.015	1.33/0.221	90.4	90.7	SW 6010B
Vanadium	< 0.02	0.00/1.09	90.5	91.5	SW 6010B

Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Ammonia-N analyzed by: Jennifer Morales
Jennifer Morales

TDS analyzed by: Trip Tennison
Trip Tennison

Anions analyzed by: Joel Ledbetter
Joel Ledbetter

Metals analyzed by: Wendy Hairston
Wendy Hairston

Arkansas Analytical Inc.

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Project Description	Turnaround Time
EL DORADO CHEMICAL		(CIRCLE ONE)
EL DORADO, AR.	Reporting Information	24 hour
	Telephone:	48 hour
	FAX:	routine
Attn:	Bill to/P.O.	Preservative Code:
		Bottle Type

Preservation Codes:

1. Cool, 4 degrees Centigrade
2. Sulfuric Acid, pH <2
3. Nitric Acid, pH <2
4. Thiosulfate for dechlorination
5. Hydrochloric Acid for VOA
6. Sodium Hydroxide, pH >12

Samplers:(Signature/s)	Samplers:(Printed)
R. Durham EMS Inc.	R. DURHAM EMS INC.

Field Number	Sample Collection Date/s	Time/s	Grab	Comp	# of Containers	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	TEST PARAMETERS: Preservative Code	1	1,2	1,3							Bottle type code G=glass;P=HDPE V=septum;A=amber	Arkansas Analytical Lab #
								Bottle Type	P	P	P							
									TDS, NO3, SO4, d Cr, d Pb, dV	NH3	T Cr, T Pb, TV								
1	6-8-05	10:30	✓		3		EcMW-21		✓	✓	✓								K506256
2	6-8-05	11:00	✓		3		EcMW-20		✓	✓	✓								257

ONSITE MEASUREMENTS

	pH	Temperature	Time
Sample			
Duplicate			
% Variance			
Average			
QC			
Recovery			

1 Relinquished by:(Signature)	Date/Time	1.Received by:(Signature)
R. Durham EMS Inc	6-8-05 11:30AM	Velocity
2.Relinquished by:(Signature)	Date/Time	2.Received by laboratory :(Signature)
Velocity	6-9-05 1258	Sydney James

For completion by laboratory

Condition of samples:	yes	no
A. Containers Correct:?	✓	
B. Preservation Correct:?	✓	
C. Seals Intact:?	✓	

REMARKS

ARKANSAS ANALYTICAL, INC. ** 11701 I-30, Bldg 1, Suite 115**Little Rock, Arkansas 72209**phone(501)455-3233**Fax(501)455-6118

6/15/2005

Arkansas Analytical Inc.

11701 I-30 Bldg 1, Ste 115 • Little Rock, AR 72209
501-455-3233 • Fax 501-455-6118

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Three water samples received 6/7/05

ANALYTICAL RESULTS

Lab Number:		**K506129**	**K506130**	**K506131**
Sample ID:		**Trip Blank**	**ECMW-20**	**ECMW-21**
Date/Time Collected:		**5/26/2005**	**5/26/05,1015**	**5/26/05,0925**
Wet Chemistry				
Ammonia-N	mg/L	< 0.5	< 0.5	< 0.5
Date/Time Analyzed		6/13/05,1100	6/13/05,1100	6/13/05,1100
TDS	mg/L	7.0[E]	85[E]	76[E]
Date/Time Analyzed		6/10/05,1600	6/10/05,1600	6/10/05,1600
Anions				
Nitrate-N	mg/L	< 0.5[E]	1.86[E]	3.17[E]
Sulfate	mg/L	< 0.5	7.72	3.64
Date/Time Analyzed		6/9/05,1844	6/9/05,1859	6/9/05,1915
Total Metals				
Chromium	mg/L	< 0.02	< 0.02	0.265
Lead	mg/L	< 0.015	< 0.015	0.063
Vanadium	mg/L	< 0.02	< 0.02	0.092
Date/Time Analyzed		6/8/05,0815	6/8/05,0815	6/8/05,0815
Dissolved Metals				
Chromium	mg/L	< 0.02	< 0.02	< 0.02
Lead	mg/L	< 0.015	< 0.015	< 0.015
Vanadium	mg/L	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		6/9/05,0900	6/9/05,0900	6/9/05,0900

E means estimated concentration; Received out of holding time.

6/15/2005

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Three water samples received 6/7/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Wet Chemistry	**mg/L**				
Ammonia-N	< 0.5	0.384	116	105	EPA 350.3
Wet Chemistry	**mg/L**				
TDS	< 1.0	1.28	NA	103	EPA 160.1
Anions	**mg/L**				
Nitrate-N	< 0.5	0.484	105	103	SW 9056
Sulfate	< 0.5	1.46	95.1	103	SW 9056
Total Metals	**mg/L**				
Chromium	< 0.02	0.00/0.222	95.0	90.1	SW 6010B
Lead	< 0.015	0.408/0.418	98.0	95.6	SW 6010B
Vanadium	< 0.02	1.10/0.00	83.8	90.5	SW 6010B

NA means not analyzed.
Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Arkansas Analytical Inc.

6/15/2005

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 2nd Quarter Groundwaters
Description: Three water samples received 6/7/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Dissolved Metals	**mg/L**				
Chromium	< 0.02	0.00/0.864	91.8	92.6	SW 6010B
Lead	< 0.015	1.33/0.221	90.4	90.7	SW 6010B
Vanadium	< 0.02	0.00/0.109	90.5	91.5	SW 6010B

Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Ammonia-N analyzed by: Jennifer Morales
Jennifer Morales

TDS analyzed by: Trip Tennison
Trip Tennison

Anions analyzed by: Joel Ledbetter
Joel Ledbetter

Metals analyzed by: Wendy Harston
Wendy Harston

Arkansas Analytical Inc.

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Billing
El Dorado Chemical Inc.	El Dorado Chemical Inc.
4500 Northwest Ave.	P.O. Box 231
El Dorado, AR 71731	El Dorado, AR 71731
Attn:	

Project Description	Turnaround Time
Groundwaters	(CIRCLE ONE)
Reporting Information	24 hour
Telephone: 1-870-863-1484	48 hour
FAX: 1-870-863-1499	routine
Bill to/P.O. #:	Preservative Code:
	Bottle Type

Preservation Codes:

1. Cool, 4 degrees Centigrade
2. Sulfuric Acid, pH <2
3. Nitric Acid, pH <2
4. Thiosulfate for dechlorination
5. Hydrochloric Acid for VOA
6. Sodium Hydroxide, pH >12

R. Durham
EMS INC
Samplers:(Signature/s)

R. DURHAM
EMS INC.
Samplers:(Printed)

Field Number	Sample Collection Date/s	Sample Collection Time/s	Grab	Comp	# of Containers	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	TEST PARAMETERS: 1,2 P Ammonia	1,3 P Cr, Pb, V	1 P TDS, Nitrate, Sulfate, d Cr, d Pb	Bottle type code G=glass;P=HDPE V=septum;A=amber	Arkansas Analytical Lab #
1	5-26-05		✓		3		TRIP BLANK					K506129
2	"	10:15	✓		3		ECMW-20					130
3	"	9:25	✓		3		ECMW-21					131

1 Relinquished by:(Signature)	Date/Time	1.Received by:(Signature)
R. Durham	5-26-05 10:30	Paul McElhaney
2.Relinquished by:(Signature)	Date/Time	2.Received by laboratory :(Signature)
Velocity	6-7-05. 1105	Sydney James

For completion by laboratory

Condition of samples:	yes	no
A. Containers Correct:?	✓	
B. Preservation Correct:?	✓	
C. Seals Intact:?	✓	

REMARKS

Nitrate + TDS received out of holding time.

ARKANSAS ANALYTICAL, INC. ** 11701 I-30, Bldg 1, Suite 115**Little Rock, Arkansas 72209**phone(501)455-3233**Fax(501)455-6118

12/14/05

Arkansas Analytical Inc.

11701 I-30 Bldg 1, Ste 115 • Little Rock, AR 72209
501-455-3233 • Fax 501-455-6118

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

CORRECTED PAGE
Re: 2005 4th Quarter Groundwaters
Description: Twenty seven water samples received 10/20,21/05

ANALYTICAL RESULTS

Lab Number:		K510957	K510958	K510959	K510960
Sample ID:		ECMW-10	ECMW-9	ECMW-8	ECMW-7
Date/Time Collected:		10/18/05,1115	10/18/05,1100	10/18/05,1045	10/18/05,1030
Date Received:		10/20/05	10/20/05	10/20/05	10/20/05
Wet Chemistry					
Alkalinity	mg/L	< 5.0	23	49	< 5.0
Date/Time Analyzed		10/27/05,1500	10/27/05,1500	10/27/05,1500	10/27/05,1500
Ammonia	mg/L	NA	NA	84.8	14.3
Date/Time Analyzed		NA	NA	10/24/05,1730	10/24/05,1730
TOC	mg/L	5.87	20.0	12.3	16.8
Date/Time Analyzed		10/25/05,0900	10/25/05,0900	10/25/05,0900	10/25/05,0900
Anions					
Nitrate	mg/L	97.7[E]	29.9[E]	246[E]	91.6[E]
Nitrite	mg/L	< 0.5[E]	< 0.5[E]	< 0.5[E]	< 0.5[E]
Date/Time Analyzed		10/20/05,1648 10/21/05,1705	10/20/05,1706 10/21/05,1723	10/20/05,1724 10/21/05,0320	10/20/05,1800 10/21/05,1741
Total Metals					
Chromium	mg/L	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	< 0.015
Phosphorus	mg/L	< 0.02	0.247	< 0.02	0.082
Vanadium	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/24/05,1455	10/24/05,1455	10/24/05,1455	10/24/05,1455
Dissolved Metals					
Chromium	mg/L	NA	NA	NA	NA
Iron	mg/L	< 0.01	< 0.01	< 0.01	0.078
Lead	mg/L	NA	NA	NA	< 0.015
Manganese	mg/L	0.152	0.320	0.515	0.096
Vanadium	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/27/05,0830	10/27/05,0830	10/27/05,0830	10/27/05,0830

NA means not analyzed.
E means estimated concentration; Analyzed out of holding time.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 4th Quarter Groundwaters
Description: Twenty seven water samples received 10/20,21/05

ANALYTICAL RESULTS

Lab Number:		K510961	K510962	K510963	K510964
Sample ID:		ECMW-6	ECMW-4	ECMW-3	ECMW-2
Date/Time Collected:		10/18/05,1015	10/18/05,1000	10/18/05,0945	10/18/05,0930
Date Received:		10/20/05	10/20/05	10/20/05	10/20/05
Wet Chemistry					
Alkalinity	mg/L	< 5.0	< 5.0	61	21
Date/Time Analyzed		10/27/05,1500	10/27/05,1500	10/27/05,1500	10/27/05,1500
Ammonia	mg/L	110	NA	NA	NA
Date/Time Analyzed		10/24/05,1730	NA	NA	NA
TOC	mg/L	1.93	32.3	7.48	2.98
Date/Time Analyzed		10/25/05,0900	10/25/05,0900	10/25/05,0900	10/25/05,1045
Anions					
Nitrate	mg/L	1350[E]	0.517[E]	< 0.5[E]	< 0.5[E]
Nitrite	mg/L	< 0.5[E]	< 0.5[E]	< 0.5[E]	< 0.5[E]
Date/Time Analyzed		10/20/05,1818 10/21/05,1553	10/20/05,1836	10/20/05,1854	10/20/05,1912
Total Metals					
Chromium	mg/L	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA
Phosphorus	mg/L	< 0.02	< 0.02	0.190	0.041
Vanadium	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/24/05,1455	10/24/05,1455	10/24/05,1455	10/24/05,1455
Dissolved Metals					
Chromium	mg/L	NA	NA	NA	NA
Iron	mg/L	0.011	0.665	0.085	< 0.01
Lead	mg/L	NA	NA	NA	NA
Manganese	mg/L	2.88	1.66	0.046	0.012
Vanadium	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/27/05,0830	10/27/05,0830	10/27/05,0830	10/27/05,0830

NA means not analyzed.
E means estimated concentration; Analyzed out of holding time.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 4th Quarter Groundwaters
Description: Twenty seven water samples received 10/20,21/05

ANALYTICAL RESULTS

Lab Number:		**K510965**	**K510966**	**K510967**	**K510968**
Sample ID:		**ECMW-1**	**ECMW-1Dup**	**ECMW-11**	**ECMW-5**
Date/Time Collected:		**10/18/05,0915**	**10/18/05,0915**	**10/18/05,0835**	**10/19/05,0815**
Date Received:		**10/20/05**	**10/20/05**	**10/20/05**	**10/20/05**
Wet Chemistry					
Alkalinity	mg/L	< 5.0	< 5.0	< 5.0	< 5.0
Date/Time Analyzed		10/27/05,1500	10/27/05,1500	10/27/05,1500	10/27/05,1500
Ammonia	mg/L	NA	NA	10.6	NA
Date/Time Analyzed		NA	NA	10/24/05,1730	NA
TOC	mg/L	1.33	< 1.0	13.3	2.61
Date/Time Analyzed		10/25/05,1045	10/25/05,1045	10/25/05,1045	10/25/05,1045
Anions					
Nitrate	mg/L	NA	NA	2.02[E]	NA
Nitrite	mg/L	< 0.5[E]	< 0.5[E]	< 0.5[E]	< 0.5
Date/Time Analyzed		10/20/05,2025	10/20/05,2043	10/20/05,1311	10/20/05,1329
Total Metals					
Chromium	mg/L	NA	NA	NA	NA
Lead	mg/L	NA	NA	NA	NA
Phosphorus	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Vanadium	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/24/05,1455	10/24/05,1455	10/24/05,1455	10/24/05,1455
Dissolved Metals					
Chromium	mg/L	NA	NA	NA	NA
Iron	mg/L	< 0.01	< 0.01	0.036	< 0.01
Lead	mg/L	NA	NA	NA	NA
Manganese	mg/L	< 0.01	< 0.01	0.022	2.19
Vanadium	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/27/05,0830	10/27/05,0830	10/27/05,0830	10/27/05,0830

NA means not analyzed.
E means estimated concentration; Analyzed out of holding time.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 4th Quarter Groundwaters
Description: Twenty seven water samples received 10/20,21/05

ANALYTICAL RESULTS

Lab Number:		K510969	K510970	K510971	K510972
Sample ID:		ECMW-5Dup	ECMW-22	ECMW-16	ECMW-15
Date/Time Collected:		10/19/05,0815	10/19/05,0830	10/19/05,0845	10/19/05,0900
Date Received:		10/20/05	10/20/05	10/20/05	10/20/05
Wet Chemistry					
Alkalinity	mg/L	< 5.0	55	< 5.0	< 5.0
Date/Time Analyzed		10/28/05,1030	10/28/05,1030	10/28/05,1030	10/28/05,1030
Ammonia	mg/L	NA	< 0.5	6.28	NA
Date/Time Analyzed		NA	10/24/05,1730	10/24/05,1730	NA
TOC	mg/L	2.86	2.24	3.45	2.37
Date/Time Analyzed		10/25/05,1045	10/25/05,1045	10/25/05,1045	10/25/05,1045
Anions					
Nitrate	mg/L	NA	< 0.5	17.0	5.63
Nitrite	mg/L	< 0.5	< 0.5	< 0.5	< 0.5
Date/Time Analyzed		10/20/05,1347	10/20/05,1405	10/20/05,1441 10/21/05,1759	10/20/05,1459
Total Metals					
Chromium	mg/L	NA	< 0.02	NA	NA
Lead	mg/L	NA	0.056	NA	NA
Phosphorus	mg/L	< 0.02	0.098	< 0.02	< 0.02
Vanadium	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/24/05,1455	10/24/05,1455	10/24/05,1455	10/24/05,1455
Dissolved Metals					
Chromium	mg/L	NA	< 0 02	NA	NA
Iron	mg/L	< 0.01	< 0.01	0.014	< 0.01
Lead	mg/L	NA	< 0.015	NA	NA
Manganese	mg/L	2.35	0.161	0.140	0.029
Vanadium	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/27/05,0830	10/27/05,0830	10/27/05,0830	10/27/05,0830

NA means not analyzed.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 4th Quarter Groundwaters
Description: Twenty seven water samples received 10/20,21/05

ANALYTICAL RESULTS

Lab Number:		K510973	K510974	K510975	K510976
Sample ID:		ECMW-14	ECMW-13	ECMW-18	ECMW-19
Date/Time Collected:		10/19/05,0915	10/19/05,0930	10/19/05,0945	10/19/05,1000
Date Received:		10/20/05	10/20/05	10/20/05	10/20/05
Wet Chemistry					
Alkalinity	mg/L	< 5.0	< 5.0	16	36
Date/Time Analyzed		10/28/05,1030	10/28/05,1030	10/28/05,1030	10/28/05,1030
Ammonia	mg/L	NA	NA	NA	< 0.5
Date/Time Analyzed		NA	NA	NA	10/24/05,1730
TOC	mg/L	32.2	7.94	1.75	3.46
Date/Time Analyzed		10/25/05,1045	10/25/05,1045	10/26/05,0900	10/26/05,0900
Anions					
Nitrate	mg/L	36.0	NA	NA	< 0.5
Nitrite	mg/L	< 0.5	< 0.5	< 0.5	< 0.5
Date/Time Analyzed		10/20/05,1518 10/21/05,1817	10/20/05,1536	10/20/05,1554	10/20/05,1612
Total Metals					
Chromium	mg/L	NA	NA	< 0.02	< 0.02
Lead	mg/L	NA	NA	< 0.015	< 0.015
Phosphorus	mg/L	< 0.02	< 0.02	0.178	0.128
Vanadium	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/24/05,1455	10/24/05,1455	10/24/05,1455	10/24/05,1455
Dissolved Metals					
Chromium	mg/L	NA	NA	0.052	< 0.02
Iron	mg/L	< 0.01	0.032	23.8	0.649
Lead	mg/L	NA	NA	< 0.015	< 0.015
Manganese	mg/L	0.071	2.78	0.073	0.085
Vanadium	mg/L	< 0.02	< 0.02	0.081	< 0.02
Date/Time Analyzed		10/27/05,0830	10/27/05,0830	10/27/05,0830	10/27/05,0830

NA means not analyzed.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 4th Quarter Groundwaters
Description: Twenty seven water samples received 10/20,21/05

ANALYTICAL RESULTS

Lab Number:		K510977	K5101003	K5101004	K5101005
Sample ID:		Field Blank	Trip Blank	Field Blank	ECMW-12
Date/Time Collected:		10/19/05,1030	10/20/05	10/20/05,0930	10/20/05,0915
Date Received:		10/20/05	10/21/05	10/21/05	10/21/05
Wet Chemistry					
Alkalinity	mg/L	< 5.0	< 5.0	< 5.0	128
Date/Time Analyzed		10/28/05,1030	10/28/05,1030	10/28/05,1030	10/28/05,1030
Ammonia	mg/L	< 0.5	< 0.5	< 0.5	1.06
Date/Time Analyzed		10/26/05,1430	10/26/05,1430	10/26/05,1430	10/26/05,1430
TOC	mg/L	1.61	< 1.0	2.55	19.7
Date/Time Analyzed		10/26/05,0900	10/26/05,0900	10/26/05,0900	10/26/05,0900
Anions					
Nitrate	mg/L	< 0.5	< 0.5	< 0.5	NA
Nitrite	mg/L	< 0.5	< 0.5	< 0.5	< 0.5
Date/Time Analyzed		10/20/05,1630	10/21/05,1046	10/21/05,1106	10/21/05,1122
Total Metals					
Chromium	mg/L	< 0.02	< 0.02	< 0.02	NA
Lead	mg/L	< 0.015	< 0.015	< 0.015	NA
Phosphorus	mg/L	< 0.02	< 0.02	< 0.02	0.063
Vanadium	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/27/05,0930	10/27/05,0930	10/27/05,0930	10/27/05,0930
Dissolved Metals					
Chromium	mg/L	< 0.02	< 0.02	< 0.02	NA
Iron	mg/L	< 0.01	< 0.01	< 0.01	8.45
Lead	mg/L	< 0.015	< 0.015	< 0.015	NA
Manganese	mg/L	< 0.01	< 0.01	< 0.01	0.195
Vanadium	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/27/05,1015	10/27/05,1015	10/27/05,1015	10/27/05,1015

NA means not analyzed.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 4th Quarter Groundwaters
Description: Twenty seven water samples received 10/20,21/05

ANALYTICAL RESULTS

Lab Number:		**K5101006**	**K5101007**	**K5101008**
Sample ID:		**ECMW-17**	**ECMW-21**	**ECMW-20**
Date/Time Collected:		**10/20/05,0900**	**10/20/05,0820**	**10/20/05,0800**
Date Received:		**10/21/05**	**10/21/05**	**10/21/05**
Wet Chemistry				
Alkalinity	mg/L	< 5.0	< 5.0	66.0
Date/Time Analyzed		10/28/05,1030	10/28/05,1030	10/28/05,1030
Ammonia	mg/L	0.670	< 0.5	< 0.5
Date/Time Analyzed		10/26/05,1430	10/26/05,1430	10/26/05,1430
TOC	mg/L	2.72	1.65	2.49
Date/Time Analyzed		10/26/05,0900	10/26/05,0900	10/26/05,0900
Anions				
Nitrate	mg/L	48.9	4.16	< 0.5
Nitrite	mg/L	< 0.5	< 0.5	< 0.5
Date/Time Analyzed		10/21/05,1140 10/21/05,1422	10/21/05,1158	10/21/05,1216
Total Metals				
Chromium	mg/L	NA	< 0.02	< 0.02
Lead	mg/L	NA	< 0.015	< 0.015
Phosphorus	mg/L	0.022	0.022	< 0.02
Vanadium	mg/L	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/27/05,0930	10/27/05,0930	10/27/05,0930
Dissolved Metals				
Chromium	mg/L	NA	< 0.02	< 0.02
Iron	mg/L	< 0.01	0.070	0.013
Lead	mg/L	NA	< 0.015	< 0.015
Manganese	mg/L	0.145	0.09	0.215
Vanadium	mg/L	< 0.02	< 0.02	< 0.02
Date/Time Analyzed		10/27/05,1015	10/27/05,1015	10/27/05,1015

NA means not analyzed.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 4th Quarter Groundwaters
Description: Twenty seven water samples received 10/20,21/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Lab Number(s): K510957-76					
Wet Chemistry	**mg/L**				
Alkalinity	< 5.0	0.976	NA	102	EPA 310.1
Lab Number(s): K510977,1003-08					
Wet Chemistry	**mg/L**				
Alkalinity	< 5.0	2.02	NA	99.0	EPA 310.1
Lab Number(s): K5109559-61,967,970-71,976					
Wet Chemistry	**mg/L**				
Ammonia	< 0.5	0.428	122	105	EPA 350.3
Lab Number(s): K510977,1003-08					
Wet Chemistry	**mg/L**				
Ammonia	< 0.5	0.435	103	104	EPA 350.3
Lab Number(s): K510957-63					
Wet Chemistry	**mg/L**				
TOC	< 1.0	4.52	93.8	106	EPA 415.1
Lab Number(s): K510964-77,1003-08					
Wet Chemistry	**mg/L**				
TOC	< 1.0	3.92	106	107	EPA 415.1

NA means not analyzed.
Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 4th Quarter Groundwaters
Description: Twenty seven water samples received 10/20,21/05

QUALITY CONTROL RESULTS

		Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Batch Number: 1020WA						
Lab Number(s): K510957-64,967-68,970-73,976-77						
	Anions	**mg/L**				
	Nitrate	< 0.5	1.02	98.5	97.1	EPA 300.0
Batch Number: 1021W						
Lab Number(s): K5101003-08						
	Anions	**mg/L**				
	Nitrate	< 0.5	1.81	99.6	97.0	EPA 300.0
Batch Number: 1020WA						
Lab Number(s): K510957-64,967-68,970-73,976-77						
	Anions	**mg/L**				
	Nitrite	< 0.5	0.763	98.3	98.1	EPA 300.0
Batch Number: 1020WB						
Lab Number(s): K510965-66						
	Anions	**mg/L**				
	Nitrite	< 0.5	1.07	98.1	100	EPA 300.0
Batch Number: 1021W						
Lab Number(s): K5101003-08						
	Anions	**mg/L**				
	Nitrite	< 0.5	1.24	84.9	98.7	EPA 300.0

Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 4th Quarter Groundwaters
Description: Twenty seven water samples received 10/20,21/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Batch Number: 1024W					
Lab Number(s): K510970					
Total Metals	**mg/L**				
Chromium	< 0.02	1.13/2.09	87.9	95.8	EPA 200.7
Batch Number: 1024W					
Lab Number(s): K510960,970,975-76					
Total Metals	**mg/L**				
Lead	< 0.015	0.488/1.12	81.8	89.3	EPA 200.7
Batch Number: 1027W					
Lab Number(s): K510977,1003-04					
Total Metals	**mg/L**				
Lead	< 0.015	1.74/1.10	80.5	90.9	EPA 200.7
Batch Number: 1024W					
Lab Number(s): K510957-76					
Total Metals	**mg/L**				
Phosphorus	< 0.02	1.79/3.02	83.4	86.0	EPA 200.7
Vanadium	< 0.02	0.00/2.15	86.5	93.0	EPA 200.7
Batch Number: 1027W					
Lab Number(s): K510977,1003-08					
Total Metals	**mg/L**				
Phosphorus	< 0.02	0.580/0.00	85.2	89.0	EPA 200.7
Vanadium	< 0.02	0.567/0.550	88.3	90.3	EPA 200.7

Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 4th Quarter Groundwaters
Description: Twenty seven water samples received 10/20,21/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Batch Number: 1027Wd					
Lab Number(s): K510970,975-76					
Dissolved Metals	**mg/L**				
Chromium	< 0.02	0.445/0.00	89.8	97.2	EPA 200.7
Batch Number: 1027WdB					
Lab Number(s): K510977,1003-04,1007-08					
Dissolved Metals	**mg/L**				
Chromium	< 0.02	1.07/0.412	93.3	97.0	EPA 200.7
Batch Number: 1027Wd					
Lab Number(s): K510970,975-76					
Dissolved Metals	**mg/L**				
Lead	< 0.015	0.650/1.19	92.3	101	EPA 200.7
Batch Number: 1027WdB					
Lab Number(s): K510977,1003-04					
Dissolved Metals	**mg/L**				
Lead	< 0.02	0.198/2.99	98.9	107	EPA 200.7

Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

El Dorado Chemical Inc.
4500 Northwest Avenue
El Dorado, AR 71731
Attn: Wes Morgan

Re: 2005 4th Quarter Groundwaters
Description: Twenty seven water samples received 10/20,21/05

QUALITY CONTROL RESULTS

	Blank	Percent Variance Duplicates	Percent Recovery Matrix Spike	Percent Recovery Control Spike	Method of Analysis
Batch Number: K1027Wd					
Lab Number(s): K510957-76					
Dissolved Metals	**mg/L**				
Iron	< 0.01	0.207/0.515	96.7	101	EPA 200.7
Manganese	< 0.01	0.501/1.19	89.3	101	EPA 200.7
Vanadium	< 0.02	0.557/0.00	89.8	93.0	EPA 200.7
Batch Number: 1027WdB					
Lab Number(s): K510977,1003-08					
Dissolved Metals	**mg/L**				
Iron	< 0.01	2.44/1.18	96.6	102	EPA 200.7
Manganese	< 0.01	1.31/0.202	92.8	98.9	EPA 200.7
Vanadium	< 0.02	0.551/0.542	90.8	92.3	EPA 200.7

Methods are from EPA 600/4-79-020, Revised March, 1983 and SW 846, Revised December, 1996.
Instrument calibration and quality control samples performed at or above frequency specified in analytical method.

Alkalinity analyzed by: Teresa Thomas
Teresa Thomas

Ammonia analyzed by: Jennifer Morales
Jennifer Morales

TOC analyzed by: Teresa Thomas
Teresa Thomas

Anions analyzed by: Tracy Bounds
Tracy Bounds, Joel Ledbetter

Metals analyzed by: Melissa Green (3)
Melissa Green

Arkansas Analytical Inc.

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Billing
El Dorado Chemical Inc.	El Dorado Chemical Inc.
4500 Northwest Ave.	P.O. Box 231
El Dorado, AR 71731	El Dorado, AR 71731
Attn: Wes Morgan	

Project Description

Reporting Information

Telephone: 1-870-863-1484

FAX: 1-870-863-1499

Bill to/P.O.

Turnaround Time (CIRCLE ONE)

24 hour

48 hour

routine

Preservation Codes:

1. Cool, 4 degrees Centigrade
2. Sulfuric Acid, pH <2
3. Nitric Acid, pH <2
4. Thiosulfate for dechlorination
5. Hydrochloric Acid for VOA
6. Sodium Hydroxide, pH >12

Samplers:(Signature/s): L. Durham

Samplers:(Printed): R. DURHAM EMS Inc.

Field Number	Sample Collection Date/s	Time/s	Grab	Comp	# of Containers	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	Preservative Code:	1	1	1	1,2						Bottle type code G=glass;P=HDPE V=septum;A=amber
								Bottle Type	P	P	P	P						
									TSS	Nitrate-N	Sulfate	Ammonia-N						Arkansas Analytical Lab #
1	9-18-05	11:15	✓		3		ECMW-10											K510957
2	10	11:02	✓		3		ECMW-9											958
3		10:45	✓		3		ECMW-8											959
4		10:30	✓		3		ECMW-7											960
5		10:15	✓		3		ECMW-6											961
6		10:00	✓		3		ECMW-4											962
7		9:45	✓		3		ECMW-3											963
8		9:30	✓		3		ECMW-2											964
9		9:15	✓		3		ECMW-1											965
10		9:15	✓		5		ECMW-1 DUP											966
~~11~~		~~9:00~~	✓		~~3~~													~~967~~
12		8:35	✓		3		ECMW-11											967

1 Relinquished by:(Signature)	Date/Time	1.Received by:(Signature)
		Velocity
2.Relinquished by:(Signature)	Date/Time	2.Received by laboratory :(Signature)
Velocity	10-20-05. 0900	Sydney James

For completion by laboratory

Condition of samples:	yes	no
A. Containers Correct:?	✓	
B. Preservation Correct:?	✓	
C. Seals Intact:?	✓	

REMARKS

TESTING PER ATTACHED SHEET

ARKANSAS ANALYTICAL, INC. ** 11701 I-30, Bldg 1, Suite 115**Little Rock, Arkansas 72209**phone(501)455-3233**Fax(501)455-6118

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Billing
El Dorado Chemical Inc.	El Dorado Chemical Inc.
4500 Northwest Ave.	P.O. Box 231
El Dorado, AR 71731	El Dorado, AR 71731
Attn: Wes Morgan	

Project Description

Reporting Information
Telephone: 1-870-863-1484
FAX: 1-870-863-1499
Bill to/P.O.

Turnaround Time (CIRCLE ONE)
24 hour
48 hour
routine

Preservation Codes:
1. Cool, 4 degrees Centigrade
2. Sulfuric Acid, pH <2
3. Nitric Acid, pH <2
4. Thiosulfate for dechlorination
5. Hydrochloric Acid for VOA
6. Sodium Hydroxide, pH >12

Samplers:(Signature/s): R. Durham

Samplers:(Printed): R. DURHAM EMSINC

Field Number	Sample Collection Date/s	Time/s	Grab	Comp	# of Containers	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	TEST PARAMETERS: TSS	Nitrate-N	Sulfate	Ammonia-N							Arkansas Analytical Lab #
Preservative Code:								1	1	1	1,2							
Bottle Type								P	P	P	P							
1	10-19-05	8:15	✓		3		ECMW-5											K510968
2		8:15	✓		3		ECMW-5 DUP											969
3		8:30	✓		3		ECMW-22											970
4		8:45	✓		3		ECMW-16											971
5		9:00	✓		3		ECMW-15											972
6		9:15	✓		3		ECMW-14											973
7		9:30	✓		3		ECMW-13											974
8		9:45	✓		3		ECMW-18											975
9		10:00	✓		3		ECMW-19											976
10		10:30	✓		3		FIELD BLANK											977

1 Relinquished by:(Signature)	Date/Time	1.Received by:(Signature)
R. Durham	10-19-05 11:00	Velocity
2.Relinquished by:(Signature)	Date/Time	2.Received by laboratory :(Signature)
Velocity	10-20-05. 0900	Sydney James

For completion by laboratory

Condition of samples:	yes	no
A. Containers Correct:?		
B. Preservation Correct:?		
C. Seals Intact:?		

REMARKS
TESTING PER ATTACHED SHEET

CHAIN OF CUSTODY RECORD

CLIENT INFORMATION	Billing	Project Description	Turnaround Time
El Dorado Chemical Inc.	El Dorado Chemical Inc.		(CIRCLE ONE)
4500 Northwest Ave.	P.O. Box 231	Reporting Information	24 hour
El Dorado, AR 71731	El Dorado, AR 71731	Telephone: 1-870-863-1484	48 hour
		FAX: 1-870-863-1499	routine
Attn: Wes Morgan		Bill to/P.O.	Preservative Code:
			Bottle Type

Preservation Codes:

1. Cool, 4 degrees Centigrade
2. Sulfuric Acid, pH <2
3. Nitric Acid, pH <2
4. Thiosulfate for dechlorination
5. Hydrochloric Acid for VOA
6. Sodium Hydroxide, pH >12

TEST PARAMETERS									Bottle type code
1	1	1	1,2						G=glass;P=HDPE
P	P	P	P						V=septum;A=amber
TSS	Nitrate-N	Sulfate	Ammonia-N						Arkansas Analytical Lab #

Samplers:(Signature/s): K. Durham

Samplers:(Printed): R. DURHAM EMS INC.

Field Number	Sample Collection Date/s	Sample Collection Time/s	Grab	Comp	# of Containers	Sample Matrix	SAMPLE IDENTIFICATION/ DESCRIPTION	Arkansas Analytical Lab #
1	10-20-05		L		3		TRIP BLANK	K5101003
2		9:30	L		3		FIELD BLANK	1004
3		9:15	L		3		ECMW-12	1005
4		9:00	L		3		ECMW-17	1006
5		8:20	L		5		ECMW-21	1007
6		8:00	L		3		ECMW-20	1008

1 Relinquished by:(Signature)	Date/Time	1.Received by:(Signature)
K. Durham EMS Inc	10-20-05 10:00 AM	Velocity
2.Relinquished by:(Signature)	Date/Time	2.Received by laboratory :(Signature)
Velocity	10-21-05 0850	sydney James

For completion by laboratory

Condition of samples:	yes	no
A. Containers Correct:?	✓	
B. Preservation Correct:?	✓	
C. Seals Intact:?	✓	

REMARKS

El Dorado Chemical Monitoring Well Sample Parameters

	Background Wells																					
	EDCMW-1	EDCMW-2	EDCMW-3	EDCMW-4	EDCMW-5	EDCMW-6	EDCMW-7	EDCMW-8	EDCMW-9	EDCMW-10	EDCMW-11	EDCMW-12	EDCMW-13	EDCMW-14	EDCMW-15	EDCMW-16	EDCMW-17	EDCMW-18	EDCMW-19	EDCMW-20	EDCMW-21	EDCMW-22
Ammonia						X	X	X			X	X				X	X		X	X	X	X
Nitrate						X	X	X	X	X	X			X	X	X	X		X	X	X	X
Total Cr																		X	X	X	X	X
Dissolved Cr																		X	X	X	X	X
Total Pb							X											X	X	X	X	X
Dissolved Pb							X											X	X	X	X	X
~~TDS~~																						
~~Sulfate~~																						
Total Vanadium	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Vanadium	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Nitrite	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Manganese	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Iron	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Phosphorus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Total Organic Carbon	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Alkalinity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Field Tests																						
pH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Sp. Conductivity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Dissolved Oxygen	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Redox	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Water Level	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X