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301302

STATUS REPORT – GROUNDWATER CORRECTIVE ACTION

GROUNDWATER MANAGEMENT ZONE EVALUATION

NORTH UNIT - WINNEBAGO RECLAMATION SERVICE, INC.

JULY 2004

Prepared for:
Winnebago Reclamation Service, Inc.
8403 Lindenwood Road
Rockford, IL 61109

Prepared by:
Andrews Environmental Engineering Inc.
3535 Mayflower Boulevard
Springfield, IL 62707

ANDREWS ENVIRONMENTAL ENGINEERING INC. 3535 Mayflower Blvd., Springfield, Illinois 62707/(217) 787-2334

July 16, 2004

Mr. Bernard Schorle
U.S. EPA, Region V
77 West Jackson Blvd.
Chicago, Illinois 60604

re: Winnebago Reclamation Service, Inc.
Status Report – Groundwater Corrective Action
Groundwater Management Zone Evaluation

Dear Mr. Schorle:

In accordance with my discussion with Tom Hilbert, provided herein is a copy of the Groundwater Management Zone Evaluation for the North Unit at the subject facility. The report was submitted to the Illinois EPA on July 15, 2004 pursuant to Condition No. VIII.22 of Permit No. 1991-138-LFM, Modification No. 24.

If you have any questions or require further information, please contact Tom Hilbert at (815) 381-5646. Thank you.

Sincerely,

Brad J. Hunsberger

Brad J. Hunsberger, LPG
Director of Hydrogeological Services

BJH:lkj

cc: Tom Hilbert, Waste Group

J:\90-114\DOC\2004\US EPA CVR LTR 7-16-04.doc

ANDREWS ENVIRONMENTAL ENGINEERING INC. 3535 Mayflower Blvd., Springfield, Illinois 62707/(217) 787-2334

July 15, 2004

Ms. Joyce Munie, P.E.
Manager, Permit Section
Bureau of Land
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Springfield, Illinois 62794

re: 2018080001 – Winnebago County
Winnebago Reclamation Service, Inc.

Dear Ms. Munie:

In accordance with Permit Condition No. VIII.22 of Permit No. 1991-138-LFM, Modification No. 24, submitted herein is a Status Report for the Groundwater Corrective Action for the subject facility.

If you have any questions, please contact Mr. Tom Hilbert at (815) 381-5646. Thank you.

Sincerely,

Brad J. Hunsberger

Brad J. Hunsberger, LPG
Director of Hydrogeological Services

LICENSED PROFESSIONAL GEOLOGIST
BRADLEY J. HUNSBERGER
196-000287
ILLINOIS

Expires 3-31-05

STATUS REPORT – GROUNDWATER CORRECTIVE ACTION

GROUNDWATER MANAGEMENT ZONE EVALUATION

NORTH UNIT- WINNEBAGO RECLAMATION SERVICE, INC.

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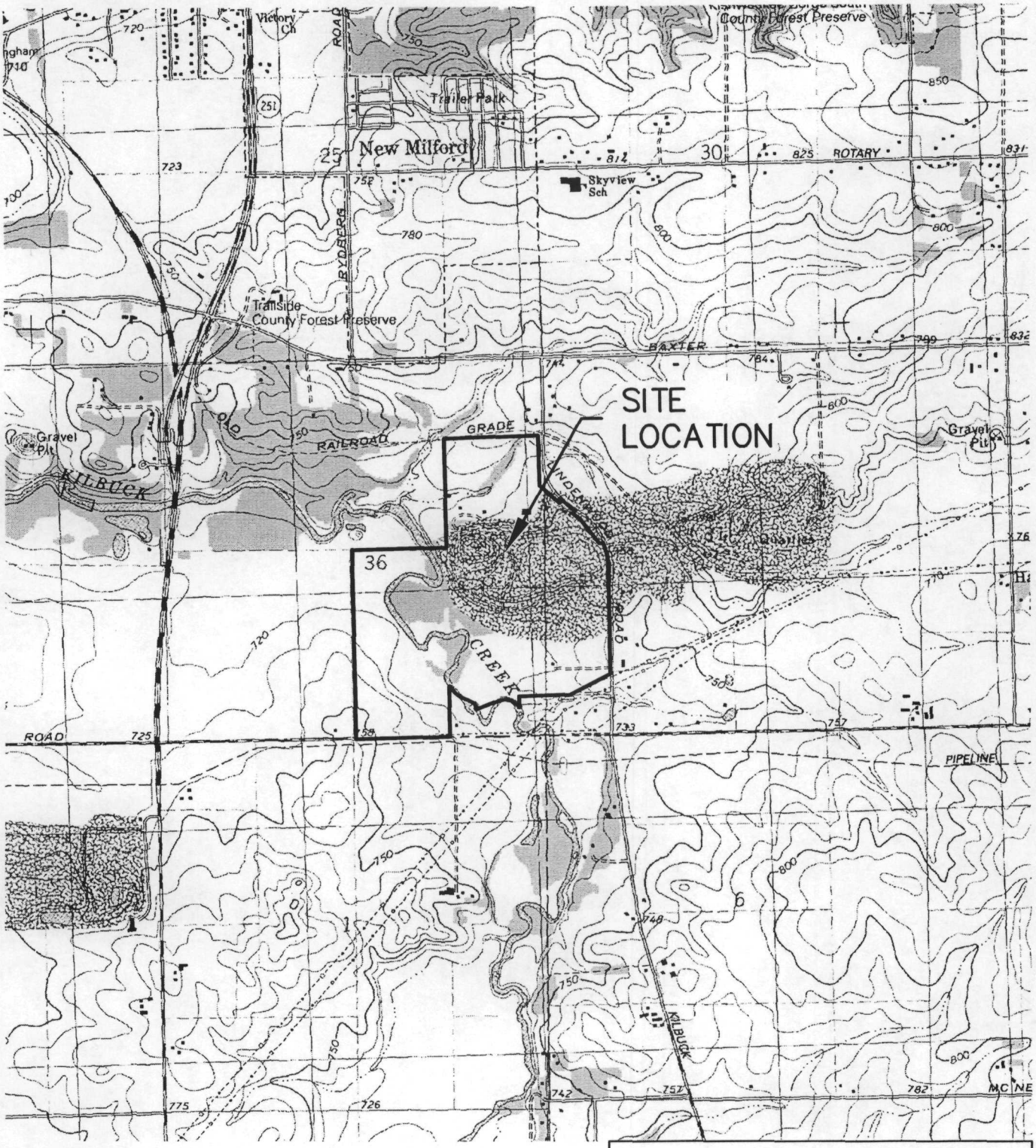
FIGURES



ROCKFORD SOUTH, ILL.
42089-B1-TF-024
1993
DMA 3168 II NE-SERIES V863

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SITE LOCATION MAP

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004
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SHEET NUMBER: FIG. 1

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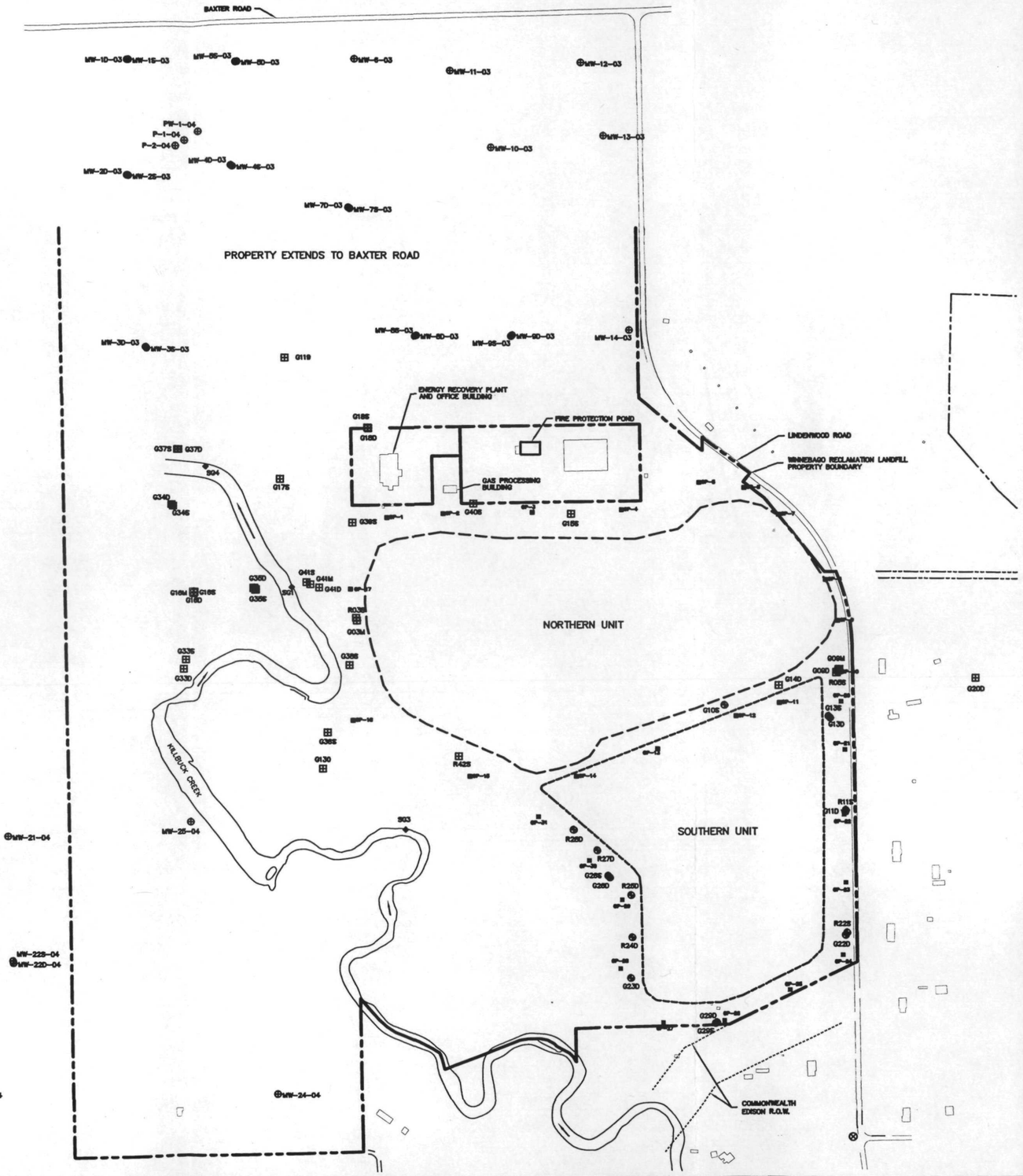
N

SCALE: IN FEET

SOUTH UNIT WELLS		NORTH UNIT WELLS		GMZ WELLS			
R05S	R24D	R03S	G33D	R03S	G16M	G34S	G40S
G10S	R25D	G03M	G34D	G03M	G16D	G34D	G41S
R11S*	G26S	G09M*	G35D	G09M	G17S	G35S	G41M
G11D*	G26D	G09D*	G36S	G09D	G18S	G35D	G41D
G13S*	R27D	G13S*	G37S	G13S	G18D	G36S	R42S
G13D*	R28D	G13D*	G38S	G13D	G19	G37S	G13O
R22S*	G29S	G14D	G39S	G14D	G20D	G37D	SG1
G22D*	G29D	G15S	G40S	G15S	G33S	G38S	SG3
G23D		G16M	G41S	G16S	G33D	G39S	SG4
		G17S	G41M				
		G18S	G41D				
		G18D	R42S				
		G20D*					

* REPRESENTS UPGRADIENT OR BACKGROUND WELL

LEGEND	
◆	SGX STREAM GAUGE LOCATION
■	GP-XX GAS MONITORING PROBE
⊞	NORTH UNIT GROUND WATER MONITOR WELL OR GMZ WELL
⊕	SOUTH UNIT GROUND WATER MONITOR WELL
———	CURRENTLY PERMITTED FILL BOUNDARY
⊗	BENCHMARK
⊕	TEMPORARY PIEZOMETER



REVISIONS			
NO.	DATE	DESCRIPTION	BY

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APPROVED BY: SRH

FACILITY MAP

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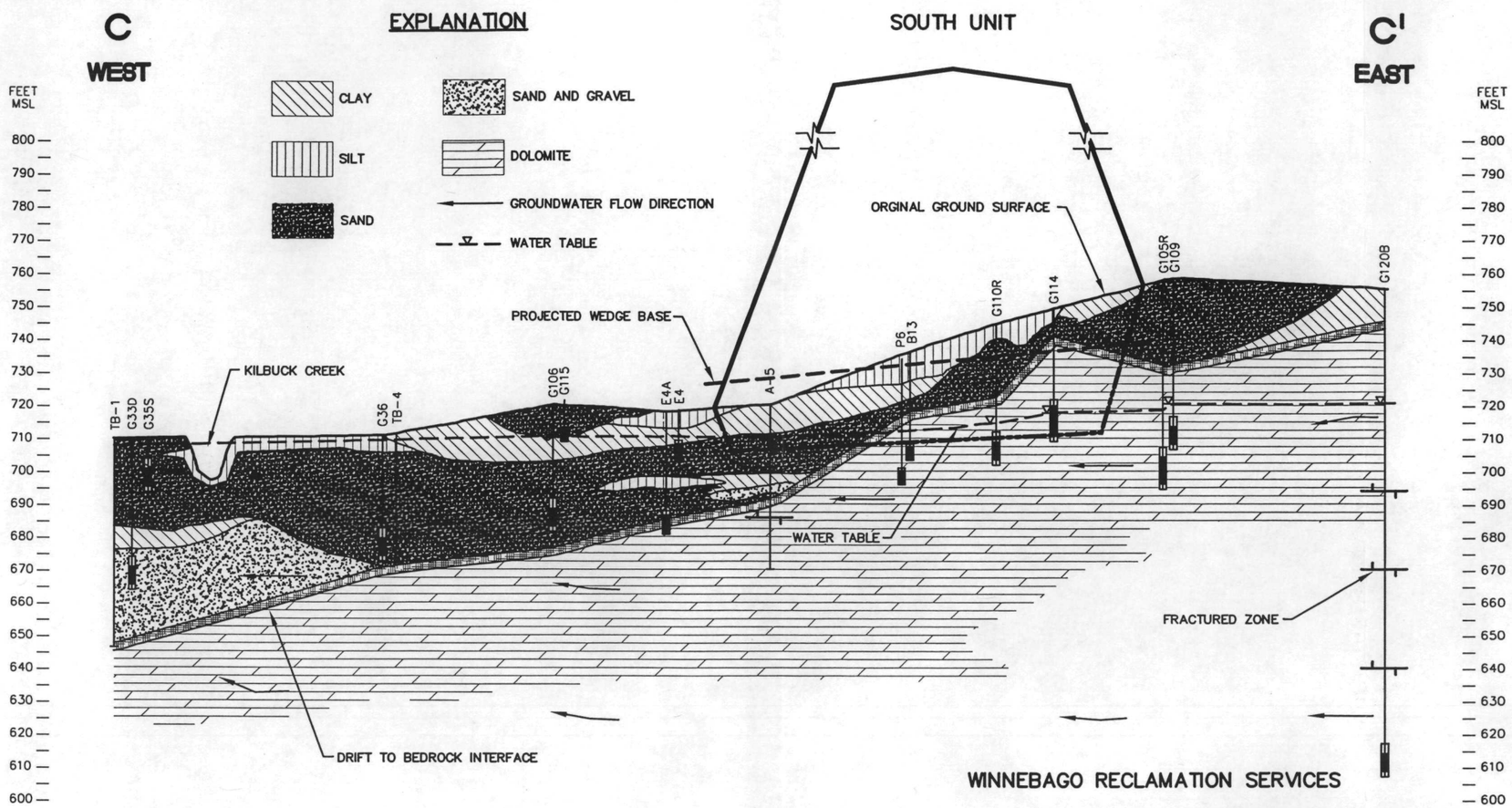

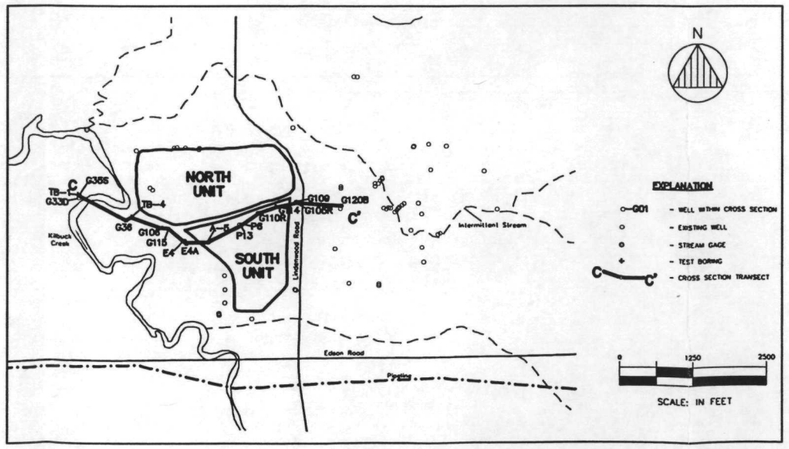

NOTE:

1. GROUNDWATER ELEVATIONS ARE BASED ON WATER LEVEL DATA COLLECTED ON 02/17/95.
2. THE DISTANCED BETWEEN BORING LOCATIONS WERE ESTIMATED BASED ON STRAIGHT-LINE TRANSECTS.

400 0 200 400 800

SCALE: IN FEET

GRAPHIC SCALE
10X VERTICAL EXAGGERATION

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EAST-WEST PROFILE C-C'

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FIG. 3

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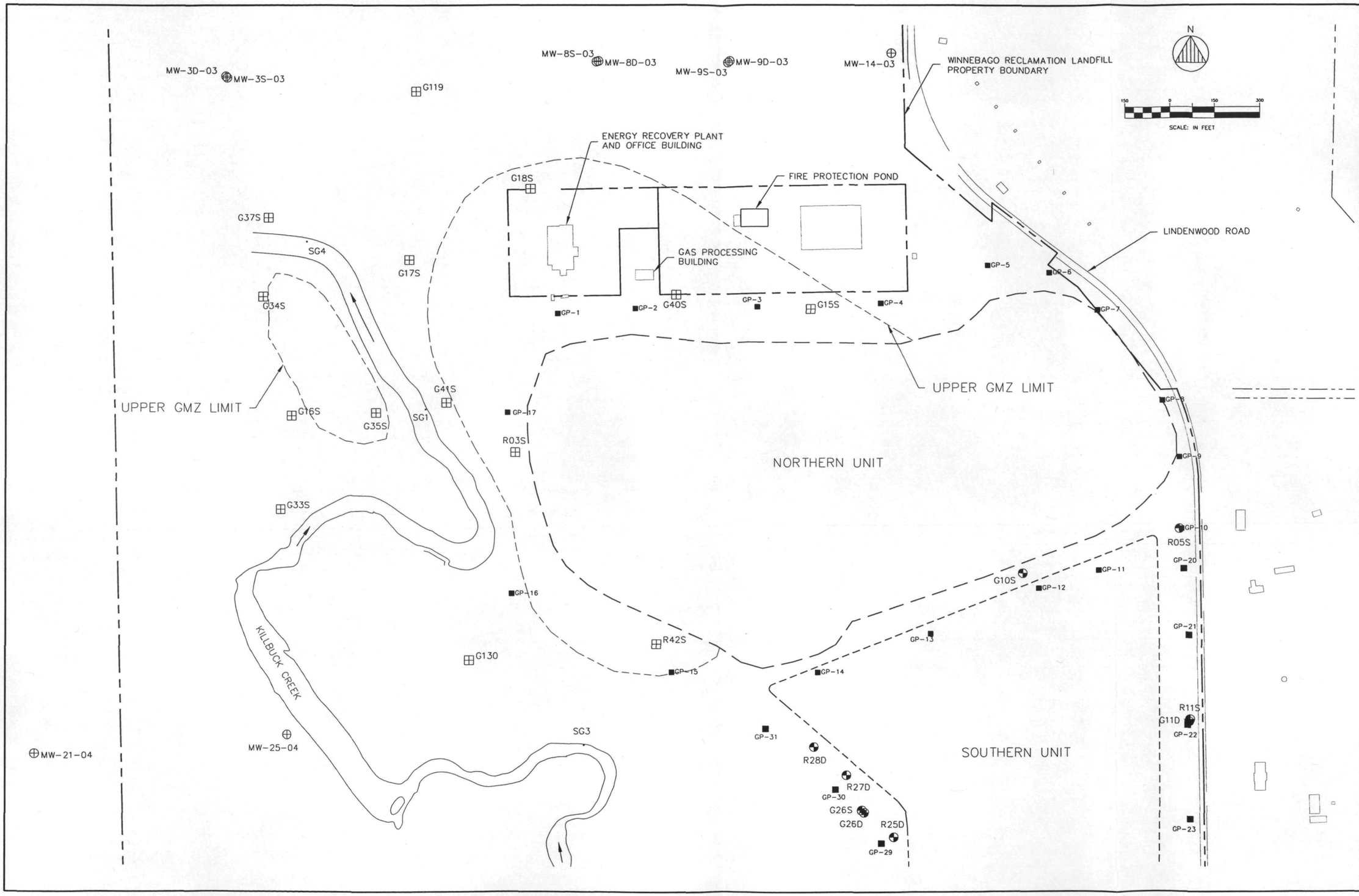

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1995 UPPER ZONE GMZ EXTENT

PLANS PREPARED FOR
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ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

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FILE: J:\\DWG\K1\1995 GMZ

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FIG. 4

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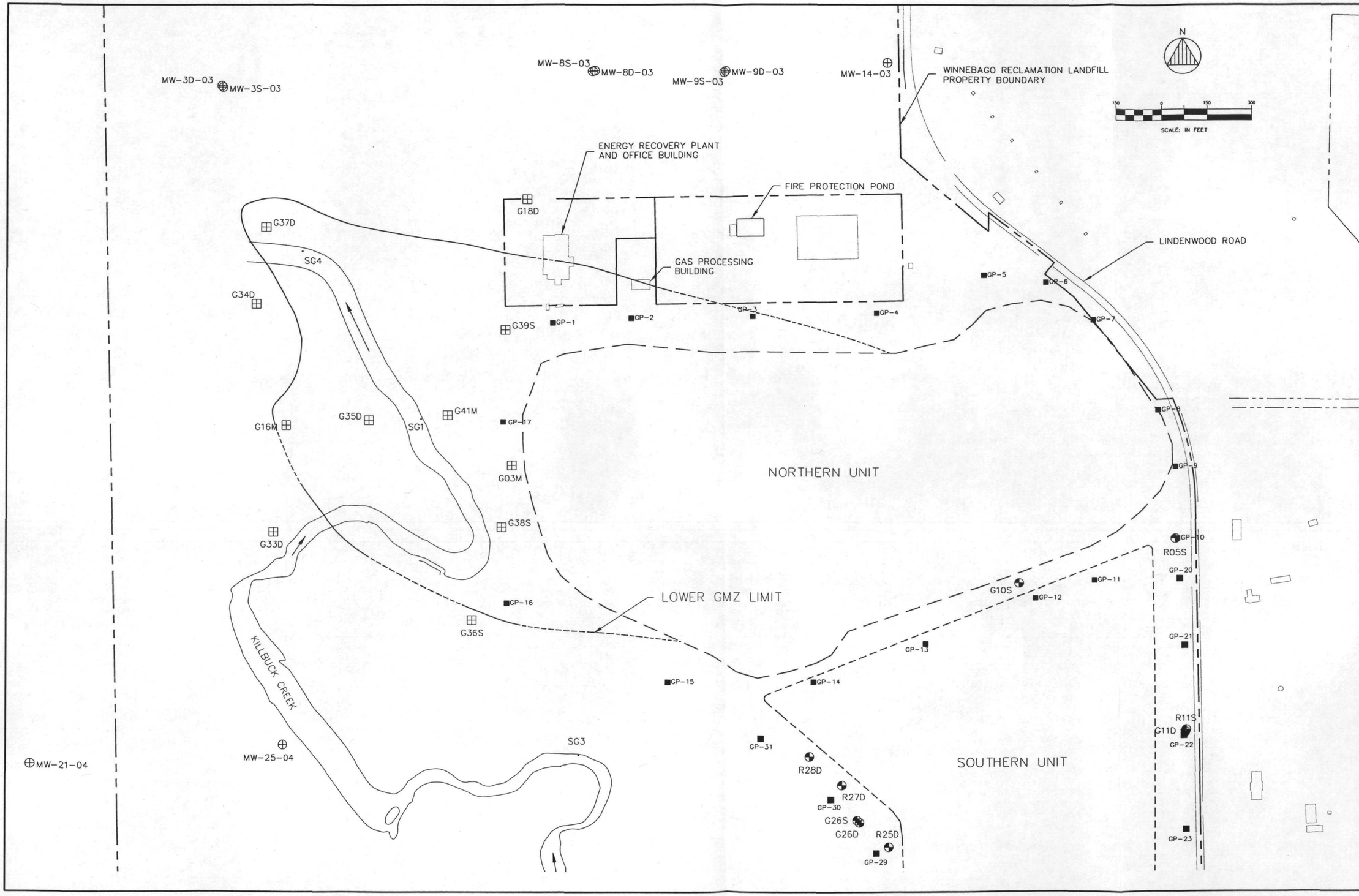

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1995 LOWER ZONE GMZ EXTENT

PLANS PREPARED FOR
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ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

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PROJECT ID: 90-114
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FIG. 5

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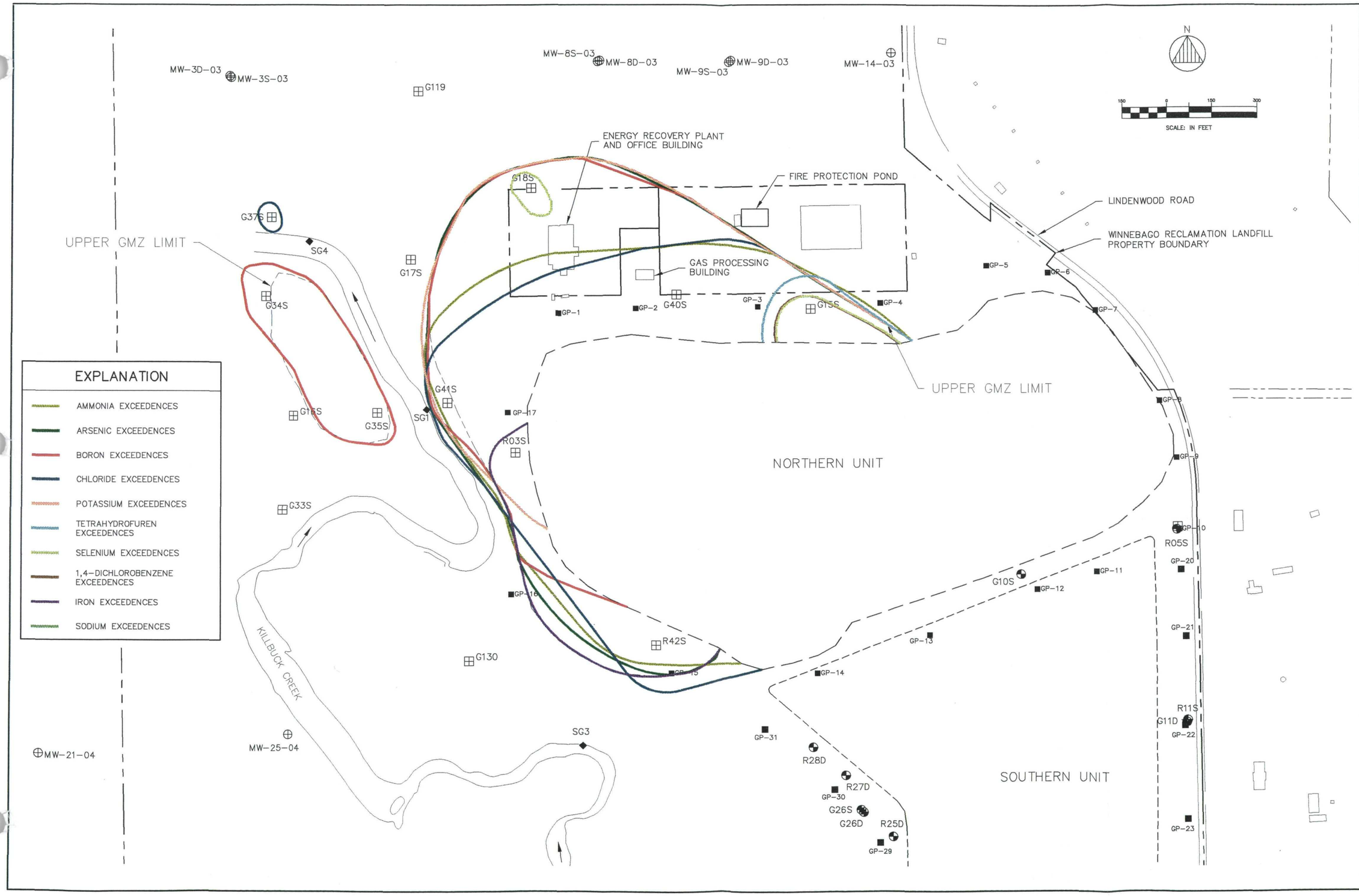

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SRH	SRH	LJE

2ND QUARTER 2004 COMPOSITE EXCEEDENCES UPPER ZONE

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

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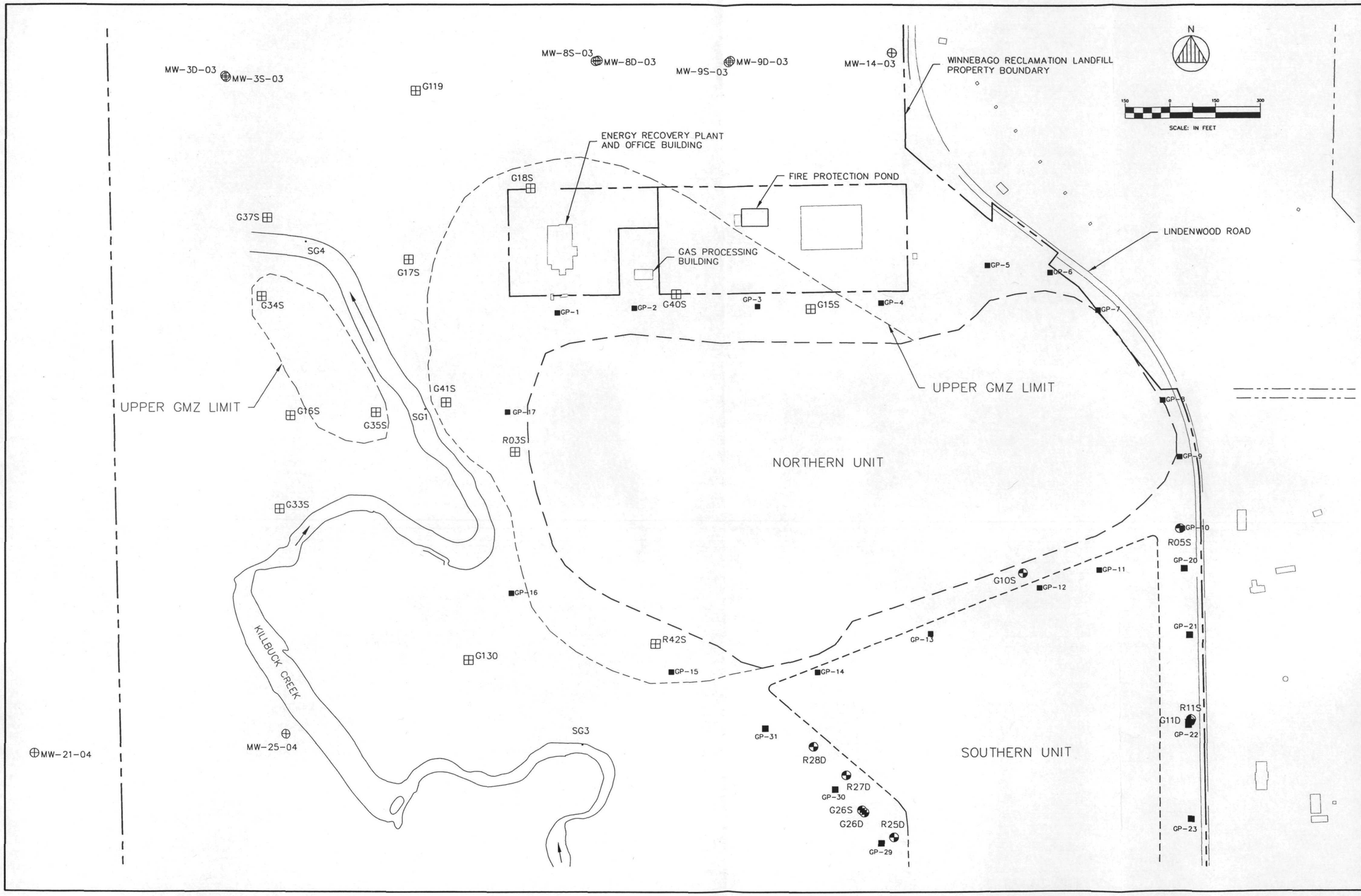

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2004 UPPER ZONE GMZ EXTENT

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004

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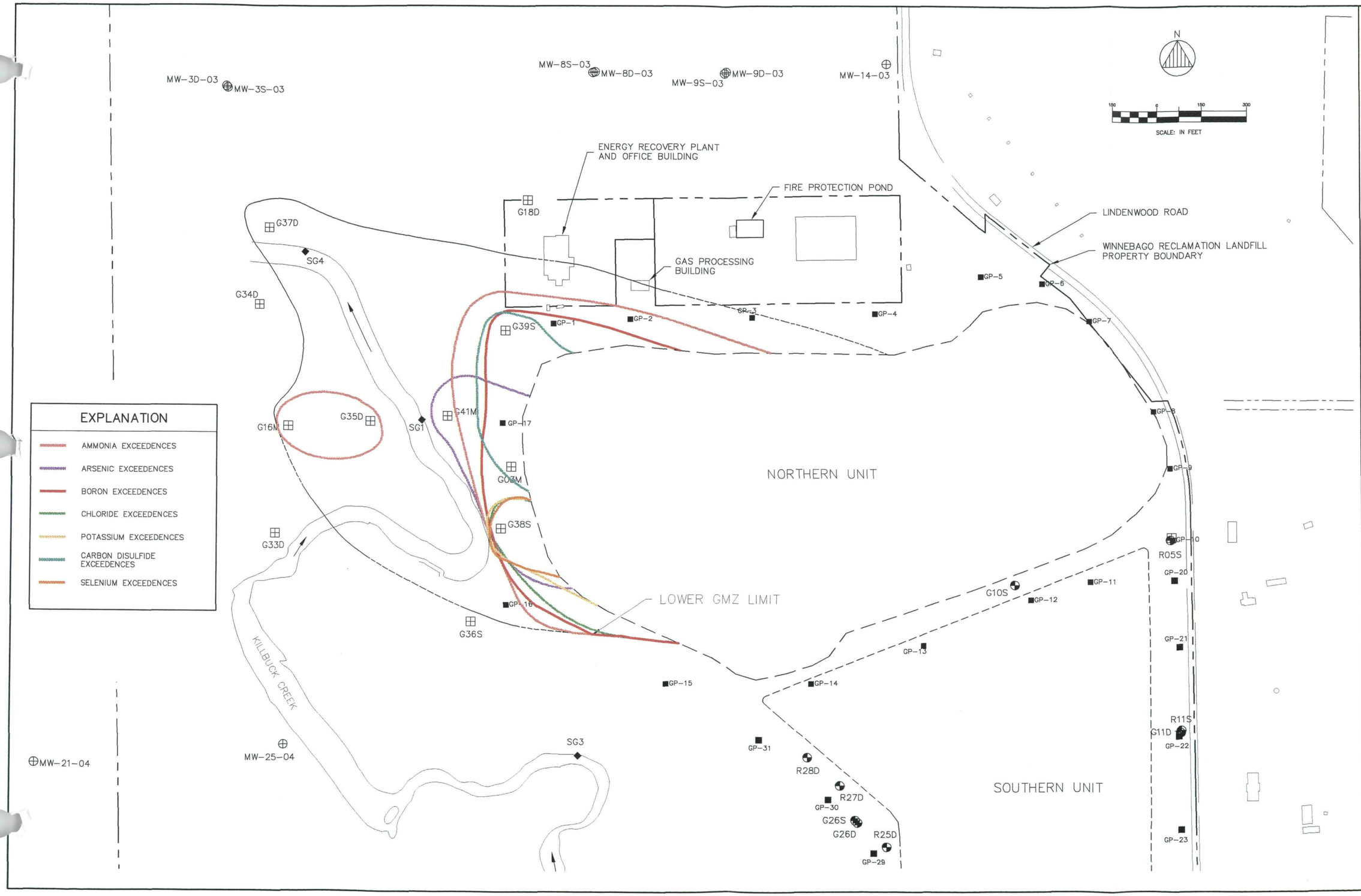

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APPROVED BY: SRH

2ND QUARTER 2004 COMPOSITE EXCEEDENCES
LOWER ZONE

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

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SHEET NUMBER:

FIG. 8

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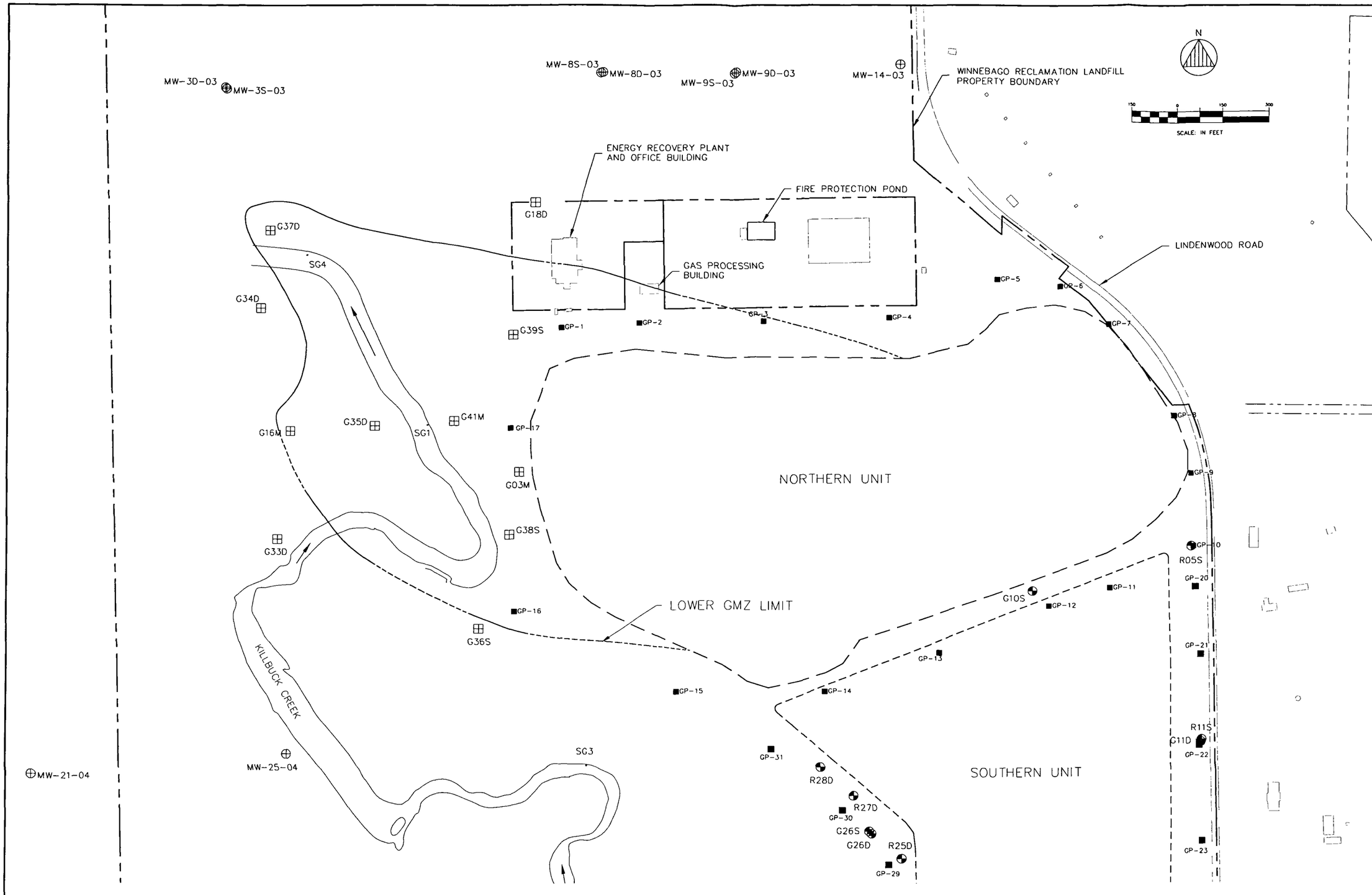

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2004 LOWER ZONE GMZ EXTENT

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004

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FIG. 9

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TABLES

Table 1
Winnebago Reclamation Service, Inc.
GMZ Sampling Points and Parameters

North Unit GMZ Wells		North Unit GMZ Parameters
G03M**	**G34D****	1,2,3-Trichlorobenzene
G09D***	G34S*	1,2,4-Trichlorobenzene
G09M***	**G35D****	1,4-Dichlorobenzene
G119*	G35S*	Ethylbenzene
G130*	**G36S****	Tetrahydrofuran
G13D***	G37D**	Ammonia as N, dissolved
G13S***	**G37S***	Ammonia as N, total
G14D***	**G38S****	Arsenic, Dissolved
G15S*	**G39S****	Arsenic, total
G16D***	**G40S***	Barium, total
G16M**	**G41D*****	Boron, Dissolved
G16S*	**G41M****	Boron, total
G17S*	**G41S***	Chloride, Dissolved
G18D**	R03S*	Chloride, total
G18S*	**R42S***	Fluoride, total
G20D***	SG1+	Nitrate as N, dissolved
G33D**	SG3+	Nitrate as N, total
G33S*	SG4+	Potassium, total
		Sodium, total

Bold - Permitted North Unit Monitoring Well
+ Surface water collection point
* Screened within the Upper Zone
** Screened within the Lower Zone
*** Screened within the Bedrock

Table 2
Winnebago Reclamation Service, Inc.
North Unit Exceedence Table

Well	Parameter	Units	GMZ Parameter	Well Location	AGQS	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
G03M	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	7.3	4.6	3.2	10
G03M	Boron, Dissolved	ug/l	GMZ	Downgradient	98	75	79	69	120
G03M	Carbon disulfide	ug/l		Downgradient	5				6
G09D	1,4-Dichlorobenzene	ug/l	GMZ	Upgradient	5				7
G09D	Acetone	ug/l		Upgradient	10				17
G09M	Ammonia as N, dissolved	mg/l	GMZ	Upgradient	0.9	0.58	3.5	3.5	0.48
G09M	Biochemical Oxygen Demand	mg/l		Upgradient	4.04				11
G09M	Chloride, Dissolved	mg/l	GMZ	Upgradient	87.511	200	190	190	220
G09M	Chloride, total	mg/l	GMZ	Upgradient	87.51186				220
G119	Nitrate as N, dissolved	mg/l	GMZ	Downgradient	11.74	15	13	12	14
G119	Nitrate as N, total	mg/l	GMZ	Downgradient	11.7389				14
G130	Biochemical Oxygen Demand	mg/l		Downgradient	4.04				4.4
G130	Nitrate as N, dissolved	mg/l	GMZ	Downgradient	11.74	12	12	11	H 10
G13D	Biochemical Oxygen Demand	mg/l		Upgradient	4.04	< 3	11	< 4	< 4
G13D	Carbon disulfide	ug/l		Upgradient	5	< 1	16	< 1	< 1
G13D	cis-1,2-Dichloroethene	ug/l		Upgradient	5	54	42	20	19
G13D	Methylene Chloride	ug/l		Upgradient	8	< 5	< 5	10	< 5
G13S	Arsenic, Dissolved	ug/l	GMZ	Upgradient	2	3	2	1.6	1.8
G13S	Boron, Dissolved	ug/l	GMZ	Upgradient	98	110	130	88	100
G13S	Iron, Dissolved	ug/l		Upgradient	4530	4000	5700	480	1600
G13S	Selenium, total	ug/l		Upgradient	4	1.1	1.5	5	1.8
G13S	Sulfate, Dissolved	mg/l		Upgradient	48.448	100	100	61	77
G14D	1,4-Dichlorobenzene	ug/l	GMZ	Downgradient	5				11
G14D	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	0.92	0.99	0.69	0.28
G14D	Arsenic, Dissolved	ug/l	GMZ	Downgradient	2	11	6.1	3.9	20
G14D	Boron, Dissolved	ug/l	GMZ	Downgradient	98	84	110	90	98
G14D	Chlorobenzene	ug/l		Downgradient	5				6
G14D	Iron, Dissolved	ug/l		Downgradient	4530	10000	17000	13000	12000
G15S	1,4-Dichlorobenzene	ug/l	GMZ	Downgradient	5				8
G15S	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	280	280	260	180
G15S	Arsenic, Dissolved	ug/l	GMZ	Downgradient	2	4.4	4.7	6.2	4.9
G15S	Biochemical Oxygen Demand	mg/l		Downgradient	4.04				7
G15S	Boron, Dissolved	ug/l	GMZ	Downgradient	98	970	1500	980	780
G15S	Boron, total	ug/l	GMZ	Downgradient	200				810
G15S	Chemical Oxygen Demand	mg/l		Downgradient	50.04				120

Table 2
Winnebago Reclamation Service, Inc.
North Unit Exceedence Table

Well	Parameter	Units	GMZ Parameter	Well Location	AGQS	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
G15S	Chloride, Dissolved	mg/l	GMZ	Downgradient	87.511	690	760	660	510
G15S	Chloride, total	mg/l	GMZ	Downgradient	87.51186				480
G15S	Chloroethane	ug/l		Downgradient	10				12
G15S	Iron, Dissolved	ug/l		Downgradient	4530	3400	5100	3600	2600
G15S	Potassium, total	mg/l	GMZ	Downgradient	29.00582				83
G15S	Selenium, total	ug/l		Downgradient	4				9.6
G15S	Sodium, total	mg/l	GMZ	Downgradient	164.7897				240
G15S	Tetrahydrofuran	ug/l	GMZ	Downgradient	42				56
G15S	Total Dissolved Solids, filtered	mg/l		Downgradient	1755.8	1800	2000	1600	1200
G16M	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	22	30	28	19
G16M	Boron, Dissolved	ug/l	GMZ	Downgradient	98	160	190	120	87
G17S	Sulfate, Dissolved	mg/l		Downgradient	48.448	40	28	74	35
G18S	Aluminum, total	ug/l		Downgradient	66602.6				240000
G18S	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	0.16	4.9	< 0.05	< 0.05
G18S	Arsenic, total	ug/l	GMZ	Downgradient	10				130
G18S	Beryllium, total	ug/l		Downgradient	5				11
G18S	Boron, Dissolved	ug/l	GMZ	Downgradient	98	160	240	96	70
G18S	Boron, total	ug/l	GMZ	Downgradient	200				260
G18S	Cobalt, total	ug/l		Downgradient	50				220
G18S	Iron, Dissolved	ug/l		Downgradient	4530	4600	1600	< 10	130
G18S	Magnesium, total	mg/l		Downgradient	109.5				770
G18S	Manganese, total	ug/l		Downgradient	12381.45				17000
G18S	Mercury, total	ug/l		Downgradient	0.4				0.54
G18S	Nitrate as N, dissolved	mg/l	GMZ	Downgradient	11.74	3	< 0.2	H 6	13
G18S	Nitrate as N, total	mg/l	GMZ	Downgradient	11.7389				13
G18S	Potassium, total	mg/l	GMZ	Downgradient	29.00582				74
G18S	Selenium, total	ug/l		Downgradient	4				12
G18S	Sulfate, Dissolved	mg/l		Downgradient	48.448	79	53	97	120
G18S	Vanadium, total	ug/l		Downgradient	100				520
G20D	cis-1,2-Dichloroethene	ug/l		Upgradient	5				16
G33D	Arsenic, total	ug/l	GMZ	Downgradient	10				21
G34S	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	4.4	9.9	24	21
G34S	Boron, Dissolved	ug/l	GMZ	Downgradient	98	150	160	100	120
G35D	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	80	13	6.3	5.4
G35D	Arsenic, Dissolved	ug/l	GMZ	Downgradient	2	3.1	2.6	< 1	< 1

Table 2
Winnebago Reclamation Service, Inc.
North Unit Exceedence Table

Well	Parameter	Units	GMZ Parameter	Well Location	AGQS	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
G35D	Boron, Dissolved	ug/l	GMZ	Downgradient	98	500	110	35	50
G35D	Chloride, Dissolved	mg/l	GMZ	Downgradient	87.511	200	40	38	40
G35S	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	52	61	6.7	43
G35S	Boron, Dissolved	ug/l	GMZ	Downgradient	98	290	320	220	220
G36S	Nitrate as N, dissolved	mg/l	GMZ	Downgradient	11.74	12	12	12	11
G36S	Nitrate as N, total	mg/l	GMZ	Downgradient	11.7389				12
G37S	Chloride, Dissolved	mg/l	GMZ	Downgradient	87.511	88	86	100	120
G37S	Chloride, total	mg/l	GMZ	Downgradient	87.51186				120
G38S	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	30	44	38	58
G38S	Arsenic, Dissolved	ug/l	GMZ	Downgradient	2	1.9	1.8	1.6	3.4
G38S	Boron, Dissolved	ug/l	GMZ	Downgradient	98	180	280	150	270
G38S	Boron, total	ug/l	GMZ	Downgradient	200				260
G38S	Chemical Oxygen Demand	mg/l		Downgradient	50.04				60
G38S	Chloride, Dissolved	mg/l	GMZ	Downgradient	87.511	300	280	180	310
G38S	Chloride, total	mg/l	GMZ	Downgradient	87.51186				310
G38S	Selenium, total	ug/l		Downgradient	4				4.6
G39S	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	8.4	7.4	6.7	5.8
G39S	Boron, Dissolved	ug/l	GMZ	Downgradient	98	150	160	110	110
G39S	Carbon disulfide	ug/l		Downgradient	5				8
G39S	Chloride, Dissolved	mg/l	GMZ	Downgradient	87.511	100	98	96	48
G40S	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	19	23	24	24
G40S	Boron, Dissolved	ug/l	GMZ	Downgradient	98	140	200	130	170
G40S	Chloride, Dissolved	mg/l	GMZ	Downgradient	87.511	120	150	150	170
G40S	Chloride, total	mg/l	GMZ	Downgradient	87.51186				170
G40S	Specific Conductance (field)	umhos		Downgradient	2386.55	1128	7000	1375	1265
G41M	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	36	1.2	0.31	0.15
G41M	Arsenic, Dissolved	ug/l	GMZ	Downgradient	2	15	2.4	1.9	5.5
G41M	Arsenic, total	ug/l	GMZ	Downgradient	10				32
G41M	Boron, Dissolved	ug/l	GMZ	Downgradient	98	300	56	17	25
G41M	Chloride, Dissolved	mg/l	GMZ	Downgradient	87.511	160	44	40	35
G41M	Iron, Dissolved	ug/l		Downgradient	4530	6100	58	350	3600
G41S	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	120	86	93	76
G41S	Arsenic, Dissolved	ug/l	GMZ	Downgradient	2	28	28	30	31
G41S	Arsenic, total	ug/l	GMZ	Downgradient	10				30
G41S	Boron, Dissolved	ug/l	GMZ	Downgradient	98	620	530	400	380

Table 2
Winnebago Reclamation Service, Inc.
North Unit Exceedence Table

Well	Parameter	Units	GMZ Parameter	Well Location	AGQS	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
G41S	Boron, total	ug/l	GMZ	Downgradient	200				400
G41S	Carbon disulfide	ug/l		Downgradient	5				6
G41S	Chloride, Dissolved	mg/l	GMZ	Downgradient	87.511	140	94	96	99
G41S	Chloride, total	mg/l	GMZ	Downgradient	87.51186				95
G41S	Potassium, total	mg/l	GMZ	Downgradient	29.00582				46
R03S	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	58	88	41	13.8
R03S	Arsenic, Dissolved	ug/l	GMZ	Downgradient	2	12	12	14	16
R03S	Arsenic, total	ug/l	GMZ	Downgradient	10				13
R03S	Boron, Dissolved	ug/l	GMZ	Downgradient	98	310	280	230	180
R03S	Chemical Oxygen Demand	mg/l		Downgradient	50.04				98
R03S	Iron, Dissolved	ug/l		Downgradient	4530	4400	5900	6700	8700
R42S	Ammonia as N, dissolved	mg/l	GMZ	Downgradient	0.9	1.1	0.77	0.58	1.9
R42S	Arsenic, Dissolved	ug/l	GMZ	Downgradient	2	27	12	21	42
R42S	Arsenic, total	ug/l	GMZ	Downgradient	10				43
R42S	Chloride, Dissolved	mg/l	GMZ	Downgradient	87.511	100	83	82	160
R42S	Chloride, total	mg/l	GMZ	Downgradient	87.51186				170
R42S	Iron, Dissolved	ug/l		Downgradient	4530	30000	21000	20000	66000
SG1	Ammonia as N, dissolved	mg/l	GMZ	Stream-Downgradient	0.9	1	1.1	1	0.25
SG1	Nitrate as N, dissolved	mg/l	GMZ	Stream-Downgradient	11.74	2.8	2.2	H 3.9	16
SG1	Nitrate as N, total	mg/l	GMZ	Stream-Downgradient	11.7389				16
SG1	Sulfate, Dissolved	mg/l		Stream-Downgradient	48.448	51	53	76	57
SG3	Nitrate as N, dissolved	mg/l	GMZ	Stream-Downgradient	11.74	2.7	1.7	H 4	16
SG3	Nitrate as N, total	mg/l	GMZ	Stream-Downgradient	11.7389				16
SG3	pH (field)	units		Stream-Downgradient	8.1 | 5.4	8.03	8.03	7.95	8.27
SG3	Sulfate, Dissolved	mg/l		Stream-Downgradient	48.448	55	56	75	57
SG4	Nitrate as N, dissolved	mg/l	GMZ	Stream-Downgradient	11.74	3	2.1	H 4	16
SG4	Nitrate as N, total	mg/l	GMZ	Stream-Downgradient	11.7389				15
SG4	pH (field)	units		Stream-Downgradient	8.1 | 5.4	7.67	7.86	8.02	8.3
SG4	Selenium, total	ug/l		Stream-Downgradient	4				4.2
SG4	Sulfate, Dissolved	mg/l		Stream-Downgradient	48.448	50	54	70	56

Notes:
1. This table only includes parameters that had an AGQS exceedence in one or more quarters.
2. A shaded box indicates an AGQS exceedence.

Table 3
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ Parameters 1997-2004

Well	Parameter	Units	1stQtr97	2ndQtr97	3rdQtr97	4thQtr97	1stQtr98	2ndQtr98	3rdQtr98	4thQtr98	1stQtr99	2ndQtr99	3rdQtr99	4thQtr99	1stQtr00	2ndQtr00	3rdQtr00	4thQtr00	1stQtr01	2ndQtr01	3rdQtr01	4thQtr01	1stQtr02	2ndQtr02	3rdQtr02	4thQtr02	1stQtr03	2ndQtr03	2ndQtr03Re	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
G03M	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G09D	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G09M	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G119	1,2,3-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G130	1,2,3-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G13D	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1		< 1	< 1	< 1	< 1
G13S	1,2,3-Trichlorobenzene	ug/l		< 5				14				< 1				< 1				< 1				< 1				< 1		< 1	< 1	< 1	< 1
G14D	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G15S	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G16D	1,2,3-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G16M	1,2,3-Trichlorobenzene	ug/l						< 5				< 1				< 1				< 1				< 1				< 1					< 1
G17S	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G18D	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G18S	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 5								< 1				< 1					< 1
G20D	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G33D	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G34D	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G34S	1,2,3-Trichlorobenzene	ug/l										< 1				< 1				< 1				< 1				< 1					< 1
G35D	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G35S	1,2,3-Trichlorobenzene	ug/l										< 1				< 1				< 1				< 1				< 1					< 1
G36S	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G37D	1,2,3-Trichlorobenzene	ug/l										< 1				< 1				< 1				< 1				< 1					< 1
G37S	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G38S	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G39S	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G40S	1,2,3-Trichlorobenzene	ug/l						< 5				< 1				< 1				< 1				< 1				< 1					< 1
G41D	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G41M	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G41S	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
R03S	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
R42S	1,2,3-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
SG1	1,2,3-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
SG3	1,2,3-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
SG4	1,2,3-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G03M	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G09D	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G09M	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G119	1,2,4-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G130	1,2,4-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G13D	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1		< 1	< 1	< 1	< 1
G13S	1,2,4-Trichlorobenzene	ug/l		< 5				7				< 1				< 1				< 1				< 1				< 1		< 1	< 1	< 1	< 1
G14D	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G15S	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G16D	1,2,4-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G16M	1,2,4-Trichlorobenzene	ug/l						< 5				< 1				< 1				< 1				< 1				< 1					< 1
G17S	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G18D	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G18S	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 5								< 1				< 1					< 1
G20D	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G33D	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G33S	1,2,4-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G34D	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G34S	1,2,4-Trichlorobenzene	ug/l										< 1				< 1				< 1				< 1				< 1					< 1
G35D	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G35S	1,2,4-Trichlorobenzene	ug/l										< 1				< 1				< 1				< 1				< 1					< 1
G36S	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G37D	1,2,4-Trichlorobenzene	ug/l										< 1				< 1				< 1				< 1				< 1					< 1
G37S	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G38S	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G39S	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G40S	1,2,4-Trichlorobenzene	ug/l						< 5				< 1				< 1				< 1				< 1				< 1					< 1
G41D	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G41M	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G41S	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
R03S	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
R42S	1,2,4-Trichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
SG1	1,2,4-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
SG3	1,2,4-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
SG4	1,2,4-Trichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G03M	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				2.8				3.6				2				< 1					< 1
G09D	1,4-Dichlorobenzene	ug/l		< 5				< 5				1.4				1.2				4.1				4				6	11				7
G09M	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G119	1,4-Dichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G130	1,4-Dichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G13D	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				3	4	2	2	4	4
G13S	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				< 1				2.4				< 1				< 1		< 1	< 1	< 1	< 1
G14D	1,4-Dichlorobenzene	ug/l		23				37				25				26				29				25				15	13				11
G15S	1,4-Dichlorobenzene	ug/l		13				12				9.4				11				8.7				6				9	9				8

Table 3
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ Parameters 1997-2004

Well	Parameter	Units	1stQtr97	2ndQtr97	3rdQtr97	4thQtr97	1stQtr98	2ndQtr98	3rdQtr98	4thQtr98	1stQtr99	2ndQtr99	3rdQtr99	4thQtr99	1stQtr00	2ndQtr00	3rdQtr00	4thQtr00	1stQtr01	2ndQtr01	3rdQtr01	4thQtr01	1stQtr02	2ndQtr02	3rdQtr02	4thQtr02	1stQtr03	2ndQtr03	2ndQtr03Re	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
G16D	1,4-Dichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G16M	1,4-Dichlorobenzene	ug/l						< 5				23				8.6				< 1				< 1				< 1					< 1
G17S	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G18D	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G18S	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				< 5								< 1				< 1					< 1
G20D	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G33D	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G33S	1,4-Dichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G34D	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G34S	1,4-Dichlorobenzene	ug/l										< 1				1.1				< 1				< 1				< 1					< 1
G35D	1,4-Dichlorobenzene	ug/l		< 5				< 5				2.7				< 1				< 1				2				< 1					< 1
G35S	1,4-Dichlorobenzene	ug/l										< 1				< 1				< 1				1				< 1					< 1
G36S	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G37D	1,4-Dichlorobenzene	ug/l										< 1				< 1				< 1				< 1				< 1					< 1
G37S	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G38S	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G39S	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				4.3				3.4				3				4	4				3
G40S	1,4-Dichlorobenzene	ug/l						7				6.3				5.3				4				5				5	5				5
G41D	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				1.9				< 1				< 1				< 1					< 1
G41M	1,4-Dichlorobenzene	ug/l		6				6				3.9				5.4				5.3				4				< 1					< 1
G41S	1,4-Dichlorobenzene	ug/l		< 5				< 5				6.6				3.5				< 1				5				3	3				2
R03S	1,4-Dichlorobenzene	ug/l		< 5				< 5				< 1				4.1				5.6				< 1				2	1				< 1
R42S	1,4-Dichlorobenzene	ug/l		10				12				< 1				< 1				< 1				< 1				< 1					< 1
SG1	1,4-Dichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
SG3	1,4-Dichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
SG4	1,4-Dichlorobenzene	ug/l																		< 1				< 1				< 1					< 1
G03M	Ammonia as N, dissolved	mg/l	6.46	5.86	1.34	3.76	1.82	1.61	1.2	1.9	0.72	0.57	3.6	47	42	72	160	160	200	150	140	210	170	140	230	170	25	9.6		7.3	4.6	3.2	10
G09D	Ammonia as N, dissolved	mg/l	0.1	0.12	0.36	0.55	0.19	0.194	< 0.1	0.12	< 0.1	< 0.1	0.1	0.29	< 0.1	< 0.1	0.29	0.19	0.16	0.18	0.2	0.28	0.21	0.13	0.32	0.5	0.29	0.087		0.24	0.099	0.065	< 0.05
G09M	Ammonia as N, dissolved	mg/l	0.21	0.14	0.27	0.34	0.49	0.18	0.46	0.29	< 0.1	< 0.1	0.18	0.31	0.19	< 0.1	0.13	< 0.1	< 0.1	< 0.1	0.14	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		0.58	3.5	3.5	0.48
G119	Ammonia as N, dissolved	mg/l																		< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
G130	Ammonia as N, dissolved	mg/l																		< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
G13D	Ammonia as N, dissolved	mg/l	0.43	0.3	0.3	0.97	0.38	0.372	0.18	0.32	0.17	< 0.1	< 0.1	0.34	< 0.1	< 0.1	< 0.1	< 0.1	0.12	< 0.1	A 0.49	0.36	0.064	0.18	< 0.05	< 0.05	0.057	< 0.05		0.16	0.19	0.084	0.064
G13S	Ammonia as N, dissolved	mg/l	0.19	0.13	0.27	0.63	0.23	0.235	0.24	0.24	0.13	0.18	0.13	0.4	< 0.1	< 0.1	0.1	< 0.1	0.14	0.13	A 0.35	< 0.05	0.39	< 0.05	0.5	0.26	0.36	0.76		0.38	0.5	< 0.05	0.094
G14D	Ammonia as N, dissolved	mg/l	1.49	1.04	1.01	1.1	0.91	0.983	0.65	1.1	0.6	0.83	1.1	1.4	0.85	0.68	1.1	1.6	1	0.59	A 1.2	0.89	0.93	1.8	1.6	0.98	0.51	0.1		0.92	0.99	0.69	0.28
G15S	Ammonia as N, dissolved	mg/l	90.9	122	118	143	129	136	130	130	140	140	90	120	120	110	110	110		110	120	140	180	130	120	120	150	250		280	280	260	180
G16D	Ammonia as N, dissolved	mg/l																		< 0.1	0.6	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
G16M	Ammonia as N, dissolved	mg/l	1010		0.23	16.6	9.04	5.98	4.6		< 0.1	130	1.3	1.4	< 0.1	3.1	17	76	45	34	72	97	26	19	65	88	40	32		22	30	28	19
G17S	Ammonia as N, dissolved	mg/l	0.13	0.23	0.24	0.38	0.21	< 0.05	< 0.1	< 0.061	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
G18D	Ammonia as N, dissolved	mg/l	0.07	0.1	0.05	0.13	0.18	0.299	0.38	< 0.061	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.12	0.54	1.5	0.34	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
G18S	Ammonia as N, dissolved	mg/l	0.6	0.34	1.03	0.26	0.25	6.9	5.8	1.9	< 0.1	< 0.1	< 0.1	15	100	170							8.6	1.7	2.8	0.74	2.2	0.29		0.16	4.9	< 0.05	< 0.05
G20D	Ammonia as N, dissolved	mg/l	0.05	0.09	0.14	0.25	0.09	0.436	< 0.1	< 0.061	0.19	< 0.1	< 0.1	0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
G33D	Ammonia as N, dissolved	mg/l	0.07	0.17	< 0.05	1.21	0.3	< 0.05	57	< 0.061	< 0.1	0.35	0.67	0.24	0.15	< 0.1	0.17	< 0.1	< 0.1	< 0.1	0.18	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
G33S	Ammonia as N, dissolved	mg/l																		< 0.1	A 0.14	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
G34D	Ammonia as N, dissolved	mg/l	0.24	0.09	< 0.05		< 0.05	0.107	< 0.1	< 0.061	< 0.1	< 0.1	< 0.1	0.16	< 0.1	< 0.1	0.14	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
G34S	Ammonia as N, dissolved	mg/l									21	17	18	15	16	17				8.3	A 5.2	6.5	4.8	1.4	3.8	5.2	3.6	4.6		4.4	9.9	24	21
G35D	Ammonia as N, dissolved	mg/l	45.5	121	24.4	638	184	40.2	< 0.1	130	270	190	15	3.8	3.1	16	11	5	3.1	4.3	3.7	4.9	16	4.2	11	120	100	32		80	13	6.3	5.4
G35S	Ammonia as N, dissolved	mg/l									10	8.7	12	18	21	22				15	25	41	42	35	21	63	81	62		52	61	6.7	43
G36S	Ammonia as N, dissolved	mg/l	0.1	0.16	< 0.05	0.14	0.16	0.162	0.11	< 0.061	< 0.1		< 0.1	< 0.1	< 0.1	< 0.1	0.16	0.11	< 0.1	< 0.1	A 0.15	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
G37D	Ammonia as N, dissolved	mg/l									1.5	2.1	2.3	1.7	1.4	1.2				1.3	1.2	1	0.93	0.67	0.78	0.71	0.49	0.16		0.095	< 0.05	< 0.05	< 0.05
G37S	Ammonia as N, dissolved	mg/l	0.1	0.21	0.12	0.27	0.17	0.157	0.51	< 0.061	0.16	< 0.1	< 0.1	0.24	< 0.1	0.23	< 0.1	< 0.1	0.19	< 0.1	0.43	< 0.05	0.17	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		0.56	0.54	0.43	0.51
G38S	Ammonia as N, dissolved	mg/l	90.9	91.5	106	183	886	69.2	68	110	74	58	62	120	85	53	44	50	63	46	310	81	52	48	40	28	15	14		30	44	38	58
G39S	Ammonia as N, dissolved	mg/l	0.68	0.54	0.1	0.78	0.51	0.55	0.25	0.57	0.21	0.24	1.3	1.1	1.3	1.6	2.5	4.5	4.4	5	9.2	7.9	7.6	7.48	7.6	9.1	5.8	7.4		8.4	7.4	6.7	5.8
G40S	Ammonia as N, dissolved	mg/l	8.9		1.44	29.9	269	26.1	13	13	17	20	9.7	12	13	13	12	13	12	12	11	16	17	20	13	15	15	19		19	23	24	24
G41D	Ammonia as N, dissolved	mg/l	23	16.3	34.4	1.16	0.36	0.221	10	0.13	1	1.2	39	33	37	92	74	47	47	45	37	31	1.2	14	0.085	< 0.05	< 0.05	0.32		0.13	< 0.05	< 0.05	< 0.05
G41M	Ammonia as N, dissolved	mg/l	144	153	152	237	190	164	170	130	0.51	100	140	60	93	72	82	130	74	120	110	130	150	140	190	180	100	11		36	1.2	0.31	0.15
G41S	Ammonia as N, dissolved	mg/l	215	160	215	272	157	109	210	220	220	250	94	91	50	68	140	86	91	100	94	120	92	127.1	110	120	160	120		120	86	93	76
R03S	Ammonia as N, dissolved	mg/l	25.3	20.1	15.6	15.3	9.85	16.1	20		10	13	11	150	130	120	170	190	170	170	160	220	200	180	220	140	91	90		58	88	41	13.8
R42S	Ammonia as N, dissolved	mg/l	1.35	1.01	0.46	2.58	0.32	1.19			1.8	1.8	1.2	0.87	0.72	0.53	2.6	2.6	0.81	1.5	2	2.3	2	1.5	2.9	2.6	1.6	1		1.1	0.77	0.58	1.9
SG1	Ammonia as N, dissolved	mg/l																		< 0.1	< 0.1	0.33	0.59	0.53	1.7	1.3	2.4	2.1		1	1.1	1	0.25
SG3	Ammonia as N, dissolved	mg/l																		< 0.1	A 0.14	< 0.05	< 0.05	< 0.05	< 0.05	2.9	< 0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
SG4	Ammonia as N, dissolved	mg/l																		0.29	0.2	0.32	0.33	< 0.05	1	< 0.05	1.3	0.72		0.32	0.48	0.62	0.2
G03M	Ammonia as N, total	mg/l		6.52				16.1				0.65				72				160				140				8.6					2.9
G09D	Ammonia as N, total	mg/l		0.17				0.13				< 0.1				0.17				0.23				0.19				0.12					< 0.05
G09M	Ammonia as N, total	mg/l		0.18				0.198				< 0.1				0.13				< 0.1				< 0.05				0.11					0.43
G119	Ammonia as N, total	mg/l																		< 0.1				< 0.05				< 0.05					< 0.05
G130	Ammonia as N, total	mg/l																		< 0.1				< 0.05				< 0.05					< 0.05
G13D	Ammonia as N, total	mg/l		0.48				0.308				< 0.1				< 0.1				< 0.1				0.19				0.15		0.15	0.13	0.1	0.052
G13S	Ammonia as N, total	mg/l		0.2				0.153				0.18				0.13				0.18				< 0.05				0.67		0.38	0.58	< 0.05	0.050
G14D	Ammonia as N, total	mg/l		1.11				0.906				0.74				0.78				0.59				2				66					0.29
G15S	Ammonia as N, total	mg/l		132				129				< 0.1				140				120				140				210					170
G16D	Ammonia as N, total	mg/l																		< 0.1				< 0.05				0.11					< 0.05
G16M	Ammonia as N, total	mg/l						4.5				170				3.2				40				17				32					18
G17S	Ammonia as N, total	mg/l		0.32				0.13				< 0.1				< 0.1				0.11				< 0.05				0.16					< 0.05
G18D	Ammonia as N, total	mg/l		0.12				0.071				< 0.1				0.41				< 0.1				< 0.05				< 0.05					< 0.05
G18S	Ammonia as N, total	mg/l		0.65				5.3				0.12				170								3.2				0.97					Q 0.059
G20D	Ammonia as N, total	mg/l		0.12				0.084				< 0.1				< 0.1				< 0.1				< 0.05				< 0.05					< 0.05
G33D	Ammonia as N, total	mg/l		0.25				0.066				< 0.1				< 0.1				< 0.1				< 0.05				0.13					< 0.05

Table 3
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ Parameters 1997-2004

Well	Parameter	Units	1stQtr97	2ndQtr97	3rdQtr97	4thQtr97	1stQtr98	2ndQtr98	3rdQtr98	4thQtr98	1stQtr99	2ndQtr99	3rdQtr99	4thQtr99	1stQtr00	2ndQtr00	3rdQtr00	4thQtr00	1stQtr01	2ndQtr01	3rdQtr01	4thQtr01	1stQtr02	2ndQtr02	3rdQtr02	4thQtr02	1stQtr03	2ndQtr03	2ndQtr03Re	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
G33S	Ammonia as N, total	mg/l																		< 0.05				< 0.05				0.12					< 0.05
G34D	Ammonia as N, total	mg/l		0.13				0.098				280				< 0.1				< 0.1				< 0.05				0.15					<Q 0.05
G34S	Ammonia as N, total	mg/l										23				20				8.9				5.823				4.1					22
G35D	Ammonia as N, total	mg/l		129				49.5				140				85				4.7				4.4				36					5.4
G35S	Ammonia as N, total	mg/l										12				15				16				33				72					42
G36S	Ammonia as N, total	mg/l		0.24				0.171				< 0.1				< 0.1				< 0.1				< 0.05				0.14					< 0.05
G37D	Ammonia as N, total	mg/l										2.2				1.2				1.3				0.68				0.14					<Q 0.05
G37S	Ammonia as N, total	mg/l		0.22				0.093				< 0.1				0.26				< 0.1				< 0.05				< 0.05					0.48
G38S	Ammonia as N, total	mg/l		105				70				82				59				48				46				12					58
G39S	Ammonia as N, total	mg/l		0.58				0.531				0.31				1.8				4.8				6.731				7.3					5.8
G40S	Ammonia as N, total	mg/l						23				18				16				13				20				19					24
G41D	Ammonia as N, total	mg/l		16.7				0.112				0.41				55				59				16				0.24					< 0.05
G41M	Ammonia as N, total	mg/l		159				167				120				81				120				120				12					0.12
G41S	Ammonia as N, total	mg/l		176				121				280				40				110				110				130					75
R03S	Ammonia as N, total	mg/l		22.4				1.84				J 13				120				180				180				76					28
R42S	Ammonia as N, total	mg/l		1.25				1.6				2				0.73				1.6				1.6				1.1					1.9
SG1	Ammonia as N, total	mg/l																		< 0.1				0.53				2.2					0.26
SG3	Ammonia as N, total	mg/l																		< 0.1				< 0.05				< 0.05					< 0.05
SG4	Ammonia as N, total	mg/l																		0.29				< 0.05				0.77					0.21
G03M	Arsenic, Dissolved	ug/l	3	< 2	< 2	< 2	< 2	< 2	< 3	< 2	< 3	< 0.84	< 3	< 3	< 3	1.9	< 2	2.4	2.6	2.5	2.9	3	3	5	8	7	2.1	< 1		< 1	< 1	< 1	1.7
G09D	Arsenic, Dissolved	ug/l	< 2.2	< 2	< 2	< 2	< 2	< 2	< 3	< 2	< 3	< 0.84	< 3	< 3	< 3	1.4	< 2	2.5	< 2	< 2	< 2	< 1	< 1	1	1	< 1	< 1	< 1		< 1	< 1	< 1	1.9
G09M	Arsenic, Dissolved	ug/l	< 2.2	< 2	< 2	< 2	< 2	< 2	< 3	< 2	< 3	< 0.84	< 3	< 3	< 3	< 0.84	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G119	Arsenic, Dissolved	ug/l																		< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G130	Arsenic, Dissolved	ug/l																		< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G13D	Arsenic, Dissolved	ug/l	< 2.2	< 2	< 2	< 2	< 2	< 2	< 3	< 2	< 3	< 0.84	< 3	< 3	< 3	1.4	< 2	< 2	< 2	< 2	< 2	2	< 1	< 1	1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G13S	Arsenic, Dissolved	ug/l	< 2.2	< 2	3.4	< 2	6.2	< 2	< 3	< 2	< 3	< 0.84	< 3	< 3	< 3	1.4	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	2	1	6	2.6		3	2	1.6	1.8
G14D	Arsenic, Dissolved	ug/l	43	35	66	61	26	17.4	42	72	67	32	110	94	67	22	12	21	56	16	32	11	7	14	4	10	5.4	10		11	6.1	3.9	20
G15S	Arsenic, Dissolved	ug/l	6.3	7	2.6	7.4	70.8	3	< 3	< 2	5.3	3.7	5.6	7	< 3	11	7.1	3.4		2.9	3.2	2	< 1	3	4	2	2.8	< 1		4.4	4.7	6.2	4.9
G16D	Arsenic, Dissolved	ug/l																		< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G16M	Arsenic, Dissolved	ug/l	0	0	< 2	< 2	< 2	< 2	< 3		< 3	3	< 3	< 3	< 3	< 3	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	2	1	< 1	< 1		< 1	< 1	< 1	< 1
G17S	Arsenic, Dissolved	ug/l	< 2.2	< 2	2.3	2.1	10.4	< 2	< 3	< 0.53	< 3	< 0.84	< 3	< 3	< 3	1	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G18D	Arsenic, Dissolved	ug/l	< 2.2	< 2	< 2	< 2	5.2	< 2	< 3	< 2	< 3	< 0.84	< 3	< 3	< 3	< 0.84	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G18S	Arsenic, Dissolved	ug/l	< 2.2	< 2	< 2	< 2	< 2	4	< 3	< 2	< 3	< 0.84	< 3	6.4	5.3	K 18							< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G20D	Arsenic, Dissolved	ug/l	< 2.2	< 2	< 2	< 2	< 2	< 2	< 3	< 2	< 3	< 0.84	< 3	< 3	< 3	< 0.84	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G33D	Arsenic, Dissolved	ug/l	< 2.2	< 2	< 2	< 2	< 2	< 2	9	< 0.53	< 3	< 0.84	< 3	< 3	< 3	< 0.84	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G33S	Arsenic, Dissolved	ug/l																		< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G34D	Arsenic, Dissolved	ug/l	< 2.2	< 2	< 2	< 2	< 2	3.1	< 3	< 0.53	< 3	< 0.84	< 3	< 3	< 3	< 0.84	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G34S	Arsenic, Dissolved	ug/l									< 3	< 0.84	< 3	< 3	< 3	< 0.84				< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G35D	Arsenic, Dissolved	ug/l	< 2.2	< 2	< 2	< 2	8.7	5.66	< 3	14	14	13	9.2	< 3	< 3	< 0.84	< 2	< 2	< 2	< 2	< 2	< 1	< 1	1	1	2	1.8	< 1		3.1	2.6	< 1	< 1
G35S	Arsenic, Dissolved	ug/l									< 3	< 0.84	< 3	< 3	< 3	1.8				< 2	< 2	< 1	< 1	< 1	< 1	1	< 1	< 1		< 1	< 1	< 1	< 1
G36S	Arsenic, Dissolved	ug/l	< 2.2	< 2	< 2	2.6	< 2	< 2	< 3	< 2	< 3	< 0.84	< 3	< 3	< 3	< 0.84	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G37D	Arsenic, Dissolved	ug/l									< 3	< 0.84	< 3	< 3	< 3	< 0.84				< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G37S	Arsenic, Dissolved	ug/l	< 2.2	< 2	3.7	< 2	< 2	< 2	< 3	< 0.53	< 3	< 0.84	< 3	< 3	< 3	< 0.84	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G38S	Arsenic, Dissolved	ug/l	< 2.2	< 2	3.2	3.2	3.1	3.44	< 3	3.3	< 3	< 0.84	5.2	6.4	7.6	5.3	3.4	5.3	5.7	4.1	4.8	4	3	6	4	2	1.5	1.7		1.9	1.8	1.6	3.4
G39S	Arsenic, Dissolved	ug/l	< 2.2	< 2	< 2	< 2	< 2	< 2	< 3	< 2	< 3	< 0.84	< 3	< 3	< 3	< 0.84	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G40S	Arsenic, Dissolved	ug/l	< 2.2	0	< 2	< 2	< 2	< 2	< 3	< 0.53	< 3	< 0.84	< 3	< 3	< 3	1	< 2	< 2	< 2	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	1
G41D	Arsenic, Dissolved	ug/l	< 2.2	< 2	< 2	2.1	< 2	< 2	< 3	< 0.53	< 3	< 0.84	< 3	< 3	< 3	1.3	< 2	< 2	2.3	< 2	< 2	< 1	< 1	< 1	< 1	< 1	< 1	< 1		< 1	< 1	< 1	< 1
G41M	Arsenic, Dissolved	ug/l	20	24	29	27	23	6	< 3	29	29	25	17	19	16	16	24	18	25	16	19	18	16	22	24	25	19	9.3		15	2.4	1.9	5.5
G41S	Arsenic, Dissolved	ug/l	7	< 2	12	4.3	9.4	< 2	6.6	14	16	13	24	21	18	24	18	26	16	22	26	23	21	25	26	31	28	25		28	28	30	31
R03S	Arsenic, Dissolved	ug/l	13	11	12	9.9	4.8	6.66	8.1		3.5	4.1	6.8	7.5	10	9.5	11	14	14	8.2	13	12	14	16	19	17	13	12		12	12	14	16
R42S	Arsenic, Dissolved	ug/l	40	23	7.8	51	13	25			19	23	11	19	21	22	26	37	28	21	24	17	18	18	21	25	23	16		27	12	21	42
SG1	Arsenic, Dissolved	ug/l																		< 2	< 2	< 1	< 1	1	2	1	< 1	1		1.3	1.1	< 1	< 1
SG3	Arsenic, Dissolved	ug/l																		< 2	< 2	< 1	< 1	< 1	1	1	< 1	< 1		1.2	1.2	< 1	< 1
SG4	Arsenic, Dissolved	ug/l																		< 2	2.1	< 1	< 1	< 1	1	< 1	< 1	< 1		1.2	< 1	< 1	< 1
G03M	Arsenic, total	ug/l		< 2				< 2				< 3				< 3				< 10				5				< 1					< 1
G09D	Arsenic, total	ug/l		< 2				< 2				< 3				< 3				< 10				1				1					2
G09M	Arsenic, total	ug/l		< 2				2.2				< 3				< 3				< 10				< 1				< 1					< 1
G119	Arsenic, total	ug/l																		47				< 1				< 1					< 1
G130	Arsenic, total	ug/l																		16				< 1				< 1					< 1
G13D	Arsenic, total	ug/l		< 2				< 2				3.9				3.3				< 10				< 1				< 1		< 1	< 1	1.2	< 1
G13S	Arsenic, total	ug/l		< 2				< 2				< 3				< 3				< 10				< 1				1.9		1.8	3.4	2.4	1.6
G14D	Arsenic, total	ug/l		36				18.2				74				62				33				12				18	12				5.7
G15S	Arsenic, total	ug/l		7				< 2				37				110				< 10				2				7.6					5.1
G16D	Arsenic, total	ug/l																		< 10				< 1				< 1					1.6
G16M	Arsenic, total	ug/l		0				< 2				5				15				< 10				< 1				< 1					< 1
G17S	Arsenic, total	ug/l		< 2				< 2				3.1				6.4				< 10				< 1				< 1					< 1
G18D	Arsenic, total	ug/l		< 2				< 2				< 3				< 3				< 10				< 1				2.1					3.2
G18S	Arsenic, total	ug/l		< 2				4.44				7.7				K 85								66				66					130
G20D	Arsenic, total	ug/l		< 2				6.22				< 3				< 3				< 10				< 1				< 1					1.2
G33D	Arsenic, total	ug/l		< 2				< 2				4.9				4				< 10				< 1				< 1					21
G33S	Arsenic, total	ug/l																		< 10				< 1				< 1					< 1
G34D	Arsenic, total	ug/l		< 2				< 2				< 3				< 3				< 10				< 1				1.6					4
G34S	Arsenic, total	ug/l										11				110				16				< 1				< 1					< 1
G35D	Arsenic, total	ug/l		5				6.55				36				3.1				< 10				2				1.5					5.7
G35S	Arsenic, total	ug/l										100				45				48				< 1				< 1					< 1
G36S	Arsenic, total	ug/l		< 2				6.66				< 3				< 3				< 10				< 1				< 1					< 1
G37D	Arsenic, total	ug/l										4.6				< 3				< 10				< 1				< 1					1.3

Table 3
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ Parameters 1997-2004

Well	Parameter	Units	1stQtr97	2ndQtr97	3rdQtr97	4thQtr97	1stQtr98	2ndQtr98	3rdQtr98	4thQtr98	1stQtr99	2ndQtr99	3rdQtr99	4thQtr99	1stQtr00	2ndQtr00	3rdQtr00	4thQtr00	1stQtr01	2ndQtr01	3rdQtr01	4thQtr01	1stQtr02	2ndQtr02	3rdQtr02	4thQtr02	1stQtr03	2ndQtr03	2ndQtr03Re	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
G37S	Arsenic, total	ug/l		< 2				3.77				6.7				8.2				< 10				< 1				< 1					< 1
G38S	Arsenic, total	ug/l		3				6.99				6.1				6.5				< 10				5				1.3					3.1
G39S	Arsenic, total	ug/l		< 2				3.5				< 3				3.5				< 10				< 1				< 1					< 1
G40S	Arsenic, total	ug/l		0				< 2				29				48				16				< 1				< 1					< 1
G41D	Arsenic, total	ug/l		< 2				< 2				< 3				< 3				< 10				< 1				< 1					< 1
G41M	Arsenic, total	ug/l		30				10				35				38				17				23				17					32
G41S	Arsenic, total	ug/l		16				< 2				26				41				30				23				28					30
R03S	Arsenic, total	ug/l		17				4.88				40				55				25				14				12					13
R42S	Arsenic, total	ug/l		21				34				96				22				21				16				16					43
SG1	Arsenic, total	ug/l																		< 10				< 1				1.7					< 1
SG3	Arsenic, total	ug/l																		< 10				< 1				1.4					< 1
SG4	Arsenic, total	ug/l																		< 10				< 1				1.3					< 1
G03M	Barium, total	ug/l		150				97.9				110				620				550				310				170					130
G09D	Barium, total	ug/l		130				132				220				200				290				350				440					440
G09M	Barium, total	ug/l		150				146				180				170				150				130				120					110
G119	Barium, total	ug/l																		510				38				32					26
G130	Barium, total	ug/l																		640				120				130					140
G13D	Barium, total	ug/l		140				151				230				200				190				160				170		160	160	160	140
G13S	Barium, total	ug/l		150				148				150				140				150				240				170		200	160	170	190
G14D	Barium, total	ug/l		370				402				500				450				740				700				840					540
G15S	Barium, total	ug/l		460				379				380				460				290				250				590					360
G16D	Barium, total	ug/l																		95				86				94					120
G16M	Barium, total	ug/l		0				374				550				490				400				280				380					350
G17S	Barium, total	ug/l		66				81.6				120				190				140				110				44					37
G18D	Barium, total	ug/l		< 56				< 56				41				41				45				45				61					62
G18S	Barium, total	ug/l		220				248				310				K 1000								1900				1900					1900
G20D	Barium, total	ug/l		71				64				68				68				81				94				89					89
G33D	Barium, total	ug/l		110				80.1				110				98				92				85				92					170
G33S	Barium, total	ug/l																		130				56				63					62
G34D	Barium, total	ug/l		< 56				< 56				32				33				31				38				55					100
G34S	Barium, total	ug/l										370				1000				310				140				190					190
G35D	Barium, total	ug/l		1200				128				560				860				230				400				180					260
G35S	Barium, total	ug/l										1000				630				790				270				280					230
G36S	Barium, total	ug/l		170				174				210				170				160				150				190					180
G37D	Barium, total	ug/l										98				53				49				43				45					51
G37S	Barium, total	ug/l		110				96.8				140				140				74				46				57					67
G38S	Barium, total	ug/l		1200				924				1100				820				810				1000				680					1100
G39S	Barium, total	ug/l		140				176				160				210				250				240				260					230
G40S	Barium, total	ug/l		0				510				490				570				300				220				280					320
G41D	Barium, total	ug/l		300				83.7				68				830				460				82				50					60
G41M	Barium, total	ug/l		570				334				390				440				430				440				160					170
G41S	Barium, total	ug/l		500				338				730				470				520				510				220					200
R03S	Barium, total	ug/l		550				383				640				1200				670				500				270					270
R42S	Barium, total	ug/l		640				501				1800				740				900				620				460					740
SG1	Barium, total	ug/l																		63				< 2				60					80
SG3	Barium, total	ug/l																		63				76				39					71
SG4	Barium, total	ug/l																		66				71				50					74
G03M	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	< 110	< 110	< 100	41	< 100	< 100	190	450	540	560	1100	1000	910	980	880	940	930	830	1200	1100	180	100		75	79	69	120
G09D	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	< 110	< 110	< 100	38	< 100	< 100	< 100	< 100	< 100	< 98	< 98	< 98	< 98	< 98	< 98	40	49	55	57	64	40	55		32	52	29	35
G09M	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	< 110	< 110	< 100	21	< 100	< 100	< 100	< 100	< 100	< 98	< 98	< 98	< 98	< 98	< 98	40	38	33	39	37	30	21		14	43	33	27
G119	Boron, Dissolved	ug/l																		< 98	< 98	34	76	14	37	35	30	17		17	27	< 10	< 10
G130	Boron, Dissolved	ug/l																		< 98	< 98	26	35	< 10	29	22	40	< 10		< 10	21	< 10	< 10
G13D	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	120	< 110	110	110	< 100	140	< 100	< 100	< 100	< 98	< 98	100	< 98	< 98	< 98	120	140	95	110	120	80	90		83	79	88	63
G13S	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	< 110	< 110	110	110	110	110	< 100	< 100	< 100	< 98	< 98	< 98	< 98	< 98	< 98	140	250	83	120	140	120	120		110	130	88	100
G14D	Boron, Dissolved	ug/l	110	< 110	< 110	< 110	< 110	< 110	< 100	96	< 100	100	120	110	130	DA 120	110	110	120	130	120	160	140	120	110	120	110	110		84	110	90	98
G15S	Boron, Dissolved	ug/l	370	380	420	370	376	354	380	360	480	360	440	430	470	430	370	400		380	440	380	710	400	390	430	700	1100		970	1500	980	780
G16D	Boron, Dissolved	ug/l																		< 98	< 98	23	32	21	24	21	20	13		< 10	21	< 10	< 10
G16M	Boron, Dissolved	ug/l	0	0	270	< 110	75	< 110	< 100		< 100	2400	< 100	< 100	< 100	110	200	520	350	170	420	500	180	86	370	600	240	130		160	190	120	87
G17S	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	< 110	< 110	< 100	29	< 100	< 100	< 100	< 100	< 100	< 98	< 98	< 98	< 98	< 98	< 98	57	59	40	56	67	60	52		60	56	40	18
G18D	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	160	< 110	< 100	21	< 100	< 100	< 100	< 100	< 100	< 98	< 98	120	< 98	< 98	< 98	21	25	13	22	26	20	16		16	27	< 10	12
G18S	Boron, Dissolved	ug/l	< 110	< 110	150	130	< 110	208	410	290	180	120	170	560	1200	K 1800							210	76	170	200	130	210		160	240	96	70
G20D	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	< 110	< 110	< 100	22	< 100	< 100	< 100	< 100	< 100	< 98	< 98	< 98	< 98	< 98	< 98	21	26	25	39	29	40	18		11	26	< 10	15
G33D	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	< 110	< 110	470	15	< 100	< 100	< 100	< 100	< 100	< 98	< 98	< 98	< 98	< 98	< 98	15	98	19	17	22	20	< 10		< 10	17	< 10	< 10
G33S	Boron, Dissolved	ug/l																		< 98	< 98	14	< 10	16	21	21	20	< 10		< 10	18	< 10	< 10
G34D	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	< 110	< 110	< 100	17	< 100	< 100	< 100	< 100	< 100	< 98	< 98	< 98	< 98	< 98	< 98	16	< 10	20	24	20	20	13		< 10	17	< 10	< 10
G34S	Boron, Dissolved	ug/l									140	150	160	140	140	110				< 98	< 98	50	27	47	57	58	50	120		150	160	100	120
G35D	Boron, Dissolved	ug/l	280	720	130	1500	1800	218	< 100	730	1400	1300	140	< 100	< 100	99	100	< 98	< 98	< 98	< 98	76	140	290	140	600	550	170		500	110	35	50
G35S	Boron, Dissolved	ug/l									< 100	< 100	< 100	140	160	DA 180				< 98	180	290	300	200	160	140	450	280		290	320	220	220
G36S	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	< 110	< 110	< 100	19	< 100	< 100	< 100	< 100	< 100	< 98	< 98	< 98	< 98	< 98	< 98	32	< 10	13	23	20	20	12		< 10	27	< 10	< 10
G37D	Boron, Dissolved	ug/l									< 100	< 100	< 100	< 100	< 100	< 98				< 98	< 98	26	10	29	31	23	30	22		18	25	< 10	< 10
G37S	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	< 110	< 110	< 100	29	< 100	< 100	< 100	< 100	< 100	< 98	< 98	< 98	< 98	< 98	< 98	47	23	41	38	42	70	64		79	95	63	83
G38S	Boron, Dissolved	ug/l	360	410	400	410	310	255	390	420	330	280	520	E 660	440	260	170	240	330	240	320	380	320	320	180	140	110	120		180	280	150	270
G39S	Boron, Dissolved	ug/l	< 110	< 110	< 110	< 110	< 110	82.9	< 100	100	100	< 100	110	120	140	130	140	140	120	140	140	130	150	140	150	140	140	130		150	160	110	110
G40S	Boron, Dissolved	ug/l	160	0	140	230	241	224	180	180	190	180	140	140	160	160	140	130	130	150	130	130	130	150	110	130	140	160		140	200	130	170
G41D	Boron, Dissolved	ug/l	120	< 110	190	< 110	< 110	< 110	< 100	23	< 100	< 100	200	190	250	290	360	250	230	280	230	220	12	100	31	14	10	18		10	26	< 10	< 10
G41M	Boron, Dissolved	ug/l	850	880	840	920	1100	1050	920	860	830	760	630	330	540	460	430	690	400	640	600	610	650	680	790	850	580	81		300	56	17	25
G41S	Boron, Dissolved	ug/l	960	970	1000	980	820	509	1100	1100	1300	1200	530	510	300	250	690	550	500	560	410	550	480	580	520	570	1000	700		620	530	400	380

Table 3
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ Parameters 1997-2004

Well	Parameter	Units	1stQtr97	2ndQtr97	3rdQtr97	4thQtr97	1stQtr98	2ndQtr98	3rdQtr98	4thQtr98	1stQtr99	2ndQtr99	3rdQtr99	4thQtr99	1stQtr00	2ndQtr00	3rdQtr00	4thQtr00	1stQtr01	2ndQtr01	3rdQtr01	4thQtr01	1stQtr02	2ndQtr02	3rdQtr02	4thQtr02	1stQtr03	2ndQtr03	2ndQtr03Re	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
R03S	Boron, Dissolved	ug/l	180	160	130	120	110	144	150		120	120	130	760	850	720	1100	1100	840	910	1000	960	1100	950	1200	990	580	410		310	280	230	180
R42S	Boron, Dissolved	ug/l	< 110	< 110	110	< 110	< 110	78.4			120	< 100	120	130	130	< 98	99	110	120	< 98	110	130	120	110	86	86	60	37		36	48	23	50
SG1	Boron, Dissolved	ug/l																		< 98	< 98	26	25	< 10	32	31	50	32		37	43	10	< 10
SG3	Boron, Dissolved	ug/l																		< 98	< 98	25	21	17	26	41	15	16		29	36	< 10	18
SG4	Boron, Dissolved	ug/l																		< 98	< 98	27	24	24	30	24	50	25		33	39	< 10	18
G03M	Boron, total	ug/l		< 110				< 110				< 98				560				980				800				95					60
G09D	Boron, total	ug/l		< 110				< 110				< 98				< 98				< 100				45				39					30
G09M	Boron, total	ug/l		< 110				< 110				< 98				< 98				< 100				33				20					41
G119	Boron, total	ug/l																		< 100				18				25					< 10
G130	Boron, total	ug/l																		< 100				17				< 10					< 10
G13D	Boron, total	ug/l		< 110				< 110				150				< 98				< 100				89				78		95	79	150	68
G13S	Boron, total	ug/l		< 110				< 110				< 98				< 98				< 100				84				120		110	120	200	98
G14D	Boron, total	ug/l		< 110				< 110				100				120				130				100				97					110
G15S	Boron, total	ug/l		400				366				370				440				350				380				1000					810
G16D	Boron, total	ug/l																		< 100				17				11					< 10
G16M	Boron, total	ug/l		0				57.2				2500				130				180				74				130					71
G17S	Boron, total	ug/l		< 110				< 110				< 98				< 98				< 100				52				45					15
G18D	Boron, total	ug/l		< 110				< 110				< 98				< 98				< 100				27				16					13
G18S	Boron, total	ug/l		< 110				241				150				K 1700								260				340					260
G20D	Boron, total	ug/l		< 110				< 110				< 98				< 98				< 100				28				21					40
G33D	Boron, total	ug/l		< 110				< 110				< 98				< 98				< 100				27				< 10					10
G33S	Boron, total	ug/l																		< 100				14				< 10					< 10
G34D	Boron, total	ug/l		< 110				< 110				< 98				< 98				< 100				17				12					14
G34S	Boron, total	ug/l										170				220				< 100				18				100					110
G35D	Boron, total	ug/l		720				212				1200				550				< 100				270				150					50
G35S	Boron, total	ug/l										140				130				110				150				270					200
G36S	Boron, total	ug/l		< 110				< 110				< 98				< 98				< 100				17				12					< 10
G37D	Boron, total	ug/l										< 98				< 98				< 100				28				24					< 10
G37S	Boron, total	ug/l		< 110				< 110				< 98				< 98				< 100				32				66					75
G38S	Boron, total	ug/l		400				259				290				260				210				290				110					260
G39S	Boron, total	ug/l		< 110				93.4				100				140				160				130				130					100
G40S	Boron, total	ug/l		0				278				230				220				130				150				150					170
G41D	Boron, total	ug/l		< 110				< 110				< 98				300				300				110				13					< 10
G41M	Boron, total	ug/l		880				1050				790				470				630				600				79					27
G41S	Boron, total	ug/l		960				541				1200				270				500				550				650					400
R03S	Boron, total	ug/l		160				151				190				810				840				920				380					200
R42S	Boron, total	ug/l		< 110				73.6				180				100				< 100				96				32					44
SG1	Boron, total	ug/l																		< 100				< 10				30					< 10
SG3	Boron, total	ug/l																		< 100				21				18					29
SG4	Boron, total	ug/l																		< 100				21				30					34
G03M	Chloride, Dissolved	mg/l	36.6	25.1	51	36.8	36.3	37	37	65	34	35	150	340	300	370	500	560	500	270	390	490	100	370	510	260	49	41		41	37	38	35
G09D	Chloride, Dissolved	mg/l	27.3	11.9	19.1	21.8	37.9	23.1	14	9.2	11	18	190	31	24	31	34	35	37	38	68	52	10	33	54	26	24	170		26	26	40	51
G09M	Chloride, Dissolved	mg/l	117	100	143	155	165	181	160	190	140	150	20	190	190	200	170	180	180	180	180	160	160	180	37	140	160	170		200	190	190	220
G119	Chloride, Dissolved	mg/l																		23	38	31	30	14	27	27	26	26		27	26	21	23
G130	Chloride, Dissolved	mg/l																		16	12	10	12	13	11	13	15	22		32	24	29	32
G13D	Chloride, Dissolved	mg/l	31.6	53.8	46.1	42.6	44.1	48.2	48	31	< 2	37	34	30	30	92	42	46	41	64	64	74	69	59	37	30	51	38		70	68	59	86
G13S	Chloride, Dissolved	mg/l	45.8	64.7	58.7	49.2	48.6	48.3	44	36	< 2	45	33	26	28	53	30	32	35	72	69	40	79	Q 43	42	31	36	39		39	43	46	38
G14D	Chloride, Dissolved	mg/l	11.8	3.4	7.3	8.4	12.8	8.35	6.4	13	32	36	90	87	40	32	76	81	52	35	41	38	38	32	63	51	41	40		37	41	32	41
G15S	Chloride, Dissolved	mg/l	474	325	473	403	398	485	410	310	340	570	350	350	410	480	410	360		310	410	360	480	310	400	310	440	710		690	760	660	510
G16D	Chloride, Dissolved	mg/l																		8	8.4	7.3	7.4	7.7	7.2	7.4	8.2	9.4		9.1	12	10	10
G16M	Chloride, Dissolved	mg/l			186	32.2	64	45.3	50		42	690	2.1	49	60	57	150	220	180	51	220	170	66	23	250	180	74	43		73	75	66	27
G17S	Chloride, Dissolved	mg/l	63	30.3	52.1	49.8	64.3	140	65	< 0.014	50	58	29	43	61	78	24	38	57	30	59	25	52	38	44	48	44	33		30	25	30	13
G18D	Chloride, Dissolved	mg/l	27.7	17.8	26.1	28	30.8	31.5	25	490	26	27	29	30	29	30	24	19	32	31	31	30	30	32	30	32	32	31		30	22	22	23
G18S	Chloride, Dissolved	mg/l	372	51.2	57.1	82	102	154	100	1000	51	63	30	520	480	750							85	33	50	37	49	27		22	43	25	34
G20D	Chloride, Dissolved	mg/l	19.7	12.9	20.4	19.8	18.9	18.6	16	16	17	20	22	20	18	23	23	23	19	21	20	17	15	18	20	26	29	28		22	35	27	32
G33D	Chloride, Dissolved	mg/l	27.5	18.2	31.3	23.9	17	20.6	200	18	22	21	19	15	14	15	12	11	11	9.5	9.8	9.9	10	11	10	14	15	13		19	16	18	17
G33S	Chloride, Dissolved	mg/l																		9.2	11	9.6	9.2	8.4	9.3	9.4	13	12		14	16	16	13
G34D	Chloride, Dissolved	mg/l	23.6	19.3	42.9	27.4	25.4	31.6	31	28	28	31	41	32	30	29	33	28	27	28	27	26	24	24	23	24	27	27		33	26	23	29
G34S	Chloride, Dissolved	mg/l									96	110	100	77	54	47				32	30	30	28	43	48	46	52	95		74	76	81	61
G35D	Chloride, Dissolved	mg/l	130	247	87.3	522	376	59.1	18	460	530	340	55	38	42	46	63	49	46	52	51	68	83	210	94	200	240	45		200	40	38	40
G35S	Chloride, Dissolved	mg/l									41	35	39	74	71	68				33	98	100	110	92	86	150	170	70		74	59	58	58
G36S	Chloride, Dissolved	mg/l	28.2	19.8	28.8	28.9	29.8	33.6	30	28	33	30	26	12	13	13	19	19	14	13	12	12	11	11	11	22	26	31		34	35	34	32
G37D	Chloride, Dissolved	mg/l									26	27	37	25	24	27				8	23	22	23	24	26	26	26	29		30	28	29	47
G37S	Chloride, Dissolved	mg/l	12.1	7.2	9.6	18.6	12.9	11.5	12	45	22	29	26	25	54	61	41	34	28	35	52	61	49	64	38	41	74	65		88	86	100	120
G38S	Chloride, Dissolved	mg/l	253	169	271	302	186	172	330	310	220	52	610	480	220	100	77	140	180	100	200	260	250	190	74	75	99	160		300	280	180	310
G39S	Chloride, Dissolved	mg/l	101	54.6	101	105	109	123	110	110	110	100	24	120	96	110	100	110	110	100	110	100	97	100	77	98	69	3.6		100	98	96	48
G40S	Chloride, Dissolved	mg/l	151		138	190	198	176	110	110	100	120	84	100	120	15	100	80	95	87	78	90	96	81	59	89	91	120		120	150	150	170
G41D	Chloride, Dissolved	mg/l	82.9	28.8	105	14.9	14.8	16.4	40	13	14	19	180	< 2	180	210	200	140	18	150	95	62	36	36	17	13	16	20		17	28	23	24
G41M	Chloride, Dissolved	mg/l	410	295	413	381	428	329	300	310	250	260	350	33	150	240	240	330	190	300	280	300	300	350	390	380	240	40		160	44	40	35
G41S	Chloride, Dissolved	mg/l	431	298	486	406	422	273	500	520	540	500	230	230	100	130	370	240	230	240	200	270	190	290	250	300	320	150		140	94	96	99
R03S	Chloride, Dissolved	mg/l	94.3	59.5	70.9	77.3	106	125	69		95	61	160	360	320	380	410	460	380	400	420	440	370	400	610	230	140	91		85	73	72	83
R42S	Chloride, Dissolved	mg/l	201	124	172	159	237	286			< 2	130	150	28	160	120	89	100	97	90	94	85	67	75	69	99	85	84		100	83	82	160
SG1	Chloride, Dissolved	mg/l																		27	29	37	26	30	30	32	32	33		37	32	30	45
SG3	Chloride, Dissolved	mg/l																		29	29	34	29	29	25	34	28	31		36	30	36	47
SG4	Chloride, Dissolved	mg/l																		31	31	37	28	30	28	26	31	35		36	32	38	47
G03M	Chloride, total	mg/l		27.1				37.9				34				370				550				380				38					35
G09D	Chloride, total	mg/l		16.5				26.5				2.5				31				36				33				170	69				49

Table 3
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ Parameters 1997-2004

Well	Parameter	Units	1stQtr97	2ndQtr97	3rdQtr97	4thQtr97	1stQtr98	2ndQtr98	3rdQtr98	4thQtr98	1stQtr99	2ndQtr99	3rdQtr99	4thQtr99	1stQtr00	2ndQtr00	3rdQtr00	4thQtr00	1stQtr01	2ndQtr01	3rdQtr01	4thQtr01	1stQtr02	2ndQtr02	3rdQtr02	4thQtr02	1stQtr03	2ndQtr03	2ndQtr03Re	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
G09M	Chloride, total	mg/l		112				192				160				200				180				190				170	170				220
G119	Chloride, total	mg/l																		23				14				25					22
G130	Chloride, total	mg/l																		16				11				21					32
G13D	Chloride, total	mg/l		54.7				45.4				32				91				68				59				66		66	76	61	65
G13S	Chloride, total	mg/l		75.5				50.2				29				55				74				50				32		38	43	49	33
G14D	Chloride, total	mg/l		4.2				7.71				36				34				40				35				42					36
G15S	Chloride, total	mg/l		324				478				20				450				310				290				740					480
G16D	Chloride, total	mg/l																		8.2				7.3				9.2					10
G16M	Chloride, total	mg/l						44.8				690				57				52				23				41					51
G17S	Chloride, total	mg/l		31.6				138				55				76				30				Q 30				29					15
G18D	Chloride, total	mg/l		19.6				31.3				26				31				31				32				31					23
G18S	Chloride, total	mg/l		55.3				158				63				610								33				30					35
G20D	Chloride, total	mg/l		14.1				17.1				20				23				20				18				29					34
G33D	Chloride, total	mg/l		22.8				20.2				42				15				9.7				8.6				12					17
G33S	Chloride, total	mg/l																		12				8.6				13					13
G34D	Chloride, total	mg/l		20				31.4				32				30				28				25				29					24
G34S	Chloride, total	mg/l										100				54				32				44				94					68
G35D	Chloride, total	mg/l		264				58.4				550				240				52				190				46					39
G35S	Chloride, total	mg/l										36				46				32				83				100					60
G36S	Chloride, total	mg/l		22.7				31.4				31				14				13				11				32					36
G37D	Chloride, total	mg/l										29				27				23				27				31					43
G37S	Chloride, total	mg/l		7.2				12				32				60				35				61				67					120
G38S	Chloride, total	mg/l		185				174				29				100				100				200				150					310
G39S	Chloride, total	mg/l		68				123				110				110				100				100				3.8					37
G40S	Chloride, total	mg/l						171				100				5.5				87				100				110					170
G41D	Chloride, total	mg/l		42.5				16.2				20				220				160				38				18					23
G41M	Chloride, total	mg/l		300				323				28				240				300				360				41					39
G41S	Chloride, total	mg/l		332				338				520				130				240				290				150					95
R03S	Chloride, total	mg/l		61.8				123				57				360				410				400				99					84
R42S	Chloride, total	mg/l		123				288				120				120				91				74				86					170
SG1	Chloride, total	mg/l																		28				31				35					52
SG3	Chloride, total	mg/l																		30				31				32					45
SG4	Chloride, total	mg/l																		30				29				37					48
G03M	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G09D	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G09M	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G119	Ethylbenzene	ug/l																		< 1				< 1				< 1					< 1
G130	Ethylbenzene	ug/l																		< 1				< 1				< 1					< 1
G13D	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1		< 1	< 1	< 1	< 1
G13S	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1		< 1	< 1	< 1	< 1
G14D	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				5.9				7				< 1					< 1
G15S	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G16D	Ethylbenzene	ug/l																		< 1				< 1				< 1					< 1
G16M	Ethylbenzene	ug/l						< 5				5.4				< 1				< 1				< 1				< 1					< 1
G17S	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G18D	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G18S	Ethylbenzene	ug/l		< 5				< 5				< 1				5.2								< 1				< 1					< 1
G20D	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G33D	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G33S	Ethylbenzene	ug/l																		< 1				< 1				< 1					< 1
G34D	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G34S	Ethylbenzene	ug/l										< 1				< 1				< 1				< 1				< 1					< 1
G35D	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G35S	Ethylbenzene	ug/l										< 1				< 1				< 1				< 1				< 1					< 1
G36S	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G37D	Ethylbenzene	ug/l										< 1				< 1				< 1				< 1				< 1					< 1
G37S	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G38S	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G39S	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G40S	Ethylbenzene	ug/l						< 5				< 1				< 1				< 1				< 1				< 1					< 1
G41D	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G41M	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
G41S	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
R03S	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
R42S	Ethylbenzene	ug/l		< 5				< 5				< 1				< 1				< 1				< 1				< 1					< 1
SG1	Ethylbenzene	ug/l																		< 1				< 1				< 1					< 1
SG3	Ethylbenzene	ug/l																		< 1				< 1				< 1					< 1
SG4	Ethylbenzene	ug/l																		< 1				< 1				< 1					< 1
G03M	Fluoride, total	mg/l		0.13				0.113				0.65				< 0.1				0.49				0.35				< 0.25					< 0.25
G09D	Fluoride, total	mg/l		< 0.1				0.104				0.49				< 0.1				0.47				< 0.25				< 0.25					< 0.25
G09M	Fluoride, total	mg/l		< 0.1				0.128				0.45				< 0.1				0.48				0.91				0.79					< 0.25
G119	Fluoride, total	mg/l																		0.49				< 0.25				< 0.25					< 0.25
G130	Fluoride, total	mg/l																		0.5				0.28				< 0.25					< 0.25
G13D	Fluoride, total	mg/l		< 0.1				< 0.1				0.78				< 0.1				0.47				< 0.25				< 0.25		< 0.25	< 0.25	< 0.25	< 0.25
G13S	Fluoride, total	mg/l		0.11				< 0.1				0.84				< 0.1				0.46				< 0.25				< 0.25		< 0.25	< 0.25	< 0.25	< 0.25
G14D	Fluoride, total	mg/l		< 0.1				0.108				0.82				< 0.1				0.41				< 0.25				< 0.25					< 0.25
G15S	Fluoride, total	mg/l		0.11				0.106				0.65				< 0.1				0.48				0.28				< 0.25					< 0.25

Table 3
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ Parameters 1997-2004

Well	Parameter	Units	1stQtr97	2ndQtr97	3rdQtr97	4thQtr97	1stQtr98	2ndQtr98	3rdQtr98	4thQtr98	1stQtr99	2ndQtr99	3rdQtr99	4thQtr99	1stQtr00	2ndQtr00	3rdQtr00	4thQtr00	1stQtr01	2ndQtr01	3rdQtr01	4thQtr01	1stQtr02	2ndQtr02	3rdQtr02	4thQtr02	1stQtr03	2ndQtr03	2ndQtr03Re	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
G16D	Fluoride, total	mg/l																		0.53				0.3				< 0.25					< 0.25
G16M	Fluoride, total	mg/l						0.116				0.79				< 0.1				0.54				0.29				< 0.25					< 0.25
G17S	Fluoride, total	mg/l		< 0.1				< 0.1				< 0.1				< 0.1				0.51				< 0.25				< 0.25					< 0.25
G18D	Fluoride, total	mg/l		< 0.1				< 0.1				0.87				0.47				0.49				< 0.25				< 0.25					< 0.25
G18S	Fluoride, total	mg/l		0.15				0.123				0.66				2.2								0.25				< 0.25					< 0.25
G20D	Fluoride, total	mg/l		0.11				< 0.1				0.64				0.5				0.51				0.25				< 0.25					< 0.25
G33D	Fluoride, total	mg/l		0.15				0.158				< 0.1				0.47				0.48				0.29				< 0.25					< 0.25
G33S	Fluoride, total	mg/l																		0.49				0.3				< 0.25					< 0.25
G34D	Fluoride, total	mg/l		< 0.1				0.11				< 0.1				0.47				0.48				< 0.25				< 0.25					< 0.25
G34S	Fluoride, total	mg/l										< 0.1				0.47				0.47				< 0.25				< 0.25					< 0.25
G35D	Fluoride, total	mg/l		0.15				0.199				< 0.1				< 0.1				0.45				0.25				< 0.25					< 0.25
G35S	Fluoride, total	mg/l										0.12				0.47				0.45				< 0.25				0.25					< 0.25
G36S	Fluoride, total	mg/l		0.13				0.122				0.77				0.47				0.45				0.29				< 0.25					< 0.25
G37D	Fluoride, total	mg/l										< 0.1				0.46				0.5				< 0.25				< 0.25					< 0.25
G37S	Fluoride, total	mg/l		< 0.1				< 0.1				< 0.1				< 0.1				0.49				< 0.25				< 0.25					< 0.25
G38S	Fluoride, total	mg/l		0.19				0.188				< 0.1				0.53				0.54				< 0.25				< 0.25					< 0.25
G39S	Fluoride, total	mg/l		< 0.1				< 0.1				0.91				< 0.1				0.45				< 0.25				< 0.25					< 0.25
G40S	Fluoride, total	mg/l						0.102				0.76				< 0.1				0.47				< 0.25				< 0.25					< 0.25
G41D	Fluoride, total	mg/l		0.13				0.125				1				< 0.1				0.54				0.27				< 0.25					< 0.25
G41M	Fluoride, total	mg/l		0.16				0.278				0.63				< 0.1				0.55				< 0.25				< 0.25					< 0.25
G41S	Fluoride, total	mg/l		0.18				0.192				0.69				< 0.1				0.51				< 0.25				0.32					0.263
R03S	Fluoride, total	mg/l		0.12				0.106				0.71				< 0.1				0.58				0.34				0.29					< 0.25
R42S	Fluoride, total	mg/l		< 0.1				< 0.1				0.81				0.81				0.42				< 0.25				< 0.25					0.281
SG1	Fluoride, total	mg/l																		0.49				0.3				< 0.25					0.277
SG3	Fluoride, total	mg/l																		0.49				0.32				< 0.25					0.26
SG4	Fluoride, total	mg/l																		0.55				0.29				< 0.25					0.275
G03M	Nitrate as N, dissolved	mg/l	6.96	8.52	7.36	7.68	8.98	8.49	7.9	9.1	8.1	9	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.68	4.6	7.9	< 0.2	< 0.02	< 0.02	< 0.2	< 0.02	< 0.02	1.6	5.5		7	8.8	7.8	8.6
G09D	Nitrate as N, dissolved	mg/l	1.3	0.93	0.84	0.84	0.84	0.53	0.5	0.28	0.59	< 0.2	2.1	< 0.2	0.22	< 0.2	< 0.2	0.79	< 0.2	1.6	< 0.2	< 0.02	< 0.02	< 0.2	< 0.02	0.046	< 0.02	< 0.02		0.044	0.042	0.13	< 0.02
G09M	Nitrate as N, dissolved	mg/l	0.1	3.25	3.85	2.29	1.45	2.33	2.6	2.3	2.2	0.9	< 0.2	0.24	< 0.2	1.1	1.7	2.9	1.3	1.6	< 0.2	0.025	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.048		< 0.02	< 0.2	3.9	0.057
G119	Nitrate as N, dissolved	mg/l																		7.8	20	18	14	10	15	14	15	15		15	13	12	14
G130	Nitrate as N, dissolved	mg/l																		4.2	6.6	9.6	6	4.7	4.2	6.8	9	9.9		12	12	11	H 10
G13D	Nitrate as N, dissolved	mg/l	1.55	1.12	2.01	1.16	0.11	1.74	0.44	0.25	0.94	< 0.2	< 0.2	0.28	9.6	< 0.2	< 0.2	0.3	< 0.2	< 0.2	0.49	0.36	4.1	1.1	1.6	4	< 0.02	0.055		0.25	0.03	< 0.02	0.06
G13S	Nitrate as N, dissolved	mg/l	0.11	0.16	0.11	< 0.1	< 0.1	< 0.1	< 0.05	< 0.026	< 0.2	0.32	< 0.2	0.22	8.6	< 0.2	0.37	1.8	1	0.76	< 0.2	5	0.42	Q 6.1	< 0.02	0.28	< 0.02	0.075		0.049	0.034	0.24	< 0.02
G14D	Nitrate as N, dissolved	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.026	< 0.2	< 0.05	< 0.2	< 0.2	0.47	< 0.2	< 0.2	0.22	< 0.2	< 0.2	< 0.2	< 0.02	< 0.1	0.05	< 0.02	< 0.02	< 0.02	< 0.02		0.048	0.031	< 0.02	0.041
G15S	Nitrate as N, dissolved	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.084	0.06	< 0.2	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	4		7.9	0.57	0.033	< 0.02	H< 0.2	< 0.02	0.045	< 0.02	0.61		0.047	0.26	< 0.02	< 0.02
G16D	Nitrate as N, dissolved	mg/l																		2.2	3	2.1	2.3	2.4	2.1	2.2	2.6	2.5		3.1	3.8	H 2.1	3.6
G16M	Nitrate as N, dissolved	mg/l			0.58	1.1	< 0.1	5.86	8.2		4.8	0.4	< 0.2	< 0.2	0.34	0.58	2.7	3.6	< 0.2	2.2	0.2	0.022	2.9	3.8	< 0.02	0.062	3	4.2		3.8	3	H 4.6	4.1
G17S	Nitrate as N, dissolved	mg/l	13.3	5.46	10.9	< 0.1	< 0.1	7.13	20	25	17	4.1	3.3	6.7	4.8	1.7	0.92	5.5	7.7	1.1	4.8	1.9	1.2	1.8	3.8	4.5	6.5	4.2		1.3	9.8	H 0.83	3.3
G18D	Nitrate as N, dissolved	mg/l	10.4	11.7	10.7	8.86	12.7	10.5	11	11	10	11	11	13	12	12	10	7.2	12	11	12	11	10	10	9.6	10	10	9.7		9.4	8.5	H 7.9	7.4
G18S	Nitrate as N, dissolved	mg/l	0.4	6.51	5.03	3.22	0.3	13.1	7.5	4.3	18	5.9	< 0.2	< 0.2	0.63	< 0.2							8.8	6.5	4.4	6.3	2.8	H 37		3	< 0.2	H 6	13
G20D	Nitrate as N, dissolved	mg/l	5.13	4.24	5.57	3.24	5.73	3.91	3.8	4.2	3.8	4.7	3.8	4.5	4.2	4.8	4.8	8.9	3.8	4.2	3.6	4	3.6	3.7	4.4	5	5.2	4.5		0.43	6	4.6	4.8
G33D	Nitrate as N, dissolved	mg/l	1.19	11.5	8.67	10.9	< 0.1	6.58	0.089	10	9.4	12	7.7	7.8	5.4	4.5	4.8	7.5	7.7	3.3	3.6	3.4	3.9	3.7	4.1	6.1	8.3	7.4		0.97	8.5	9	9.6
G33S	Nitrate as N, dissolved	mg/l																		2.2	4.1	3.2	3.1	3.2	3.6	3.4	6.7	6.5		0.76	8.9	7.8	7.7
G34D	Nitrate as N, dissolved	mg/l	0.77	8.67	4.65	8.32	< 0.1	5.8	6.8	8.9	7.8	8.7	7.5	8.8	9.4	10	9.3	11	10	9.1	9.4	9.1	9.3	9.5	9	8.8	9	7.9		8.8	8.7	H 8.9	9
G34S	Nitrate as N, dissolved	mg/l									1.8	1.2	1.1	4.8	6.2	5.7				6.7	7.2	7.2	7.5	6.2	5.8	6.2	6.6	2		2.6	2.7	3.5	4.3
G35D	Nitrate as N, dissolved	mg/l	1.92	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	10	2.1	< 0.2	0.065	< 0.2	3.4	4.5	1	3.7	5.3	5.8	5.3	5.9	5.1	3	0.077	3.3	< 0.2	< 0.02	< 0.02		< 0.02	0.38	6.2	7.2
G35S	Nitrate as N, dissolved	mg/l									4.7	4.4	0.57	0.38	0.43	4.8				1.1	0.39	0.12	0.14	0.1	0.18	< 0.02	< 0.02	< 0.02		< 0.02	< 0.02	H< 0.02	< 0.02
G36S	Nitrate as N, dissolved	mg/l	9.67	11.1	11	11.4	11.5	9.57	13	11	10	11	9.3	7	6.3	6.8	8.8	6.6	7.2	6.5	5.3	5.5	5.2	5.2	5	8.9	10	11		12	12	12	11
G37D	Nitrate as N, dissolved	mg/l									9.1	1	7.6	8.1	8.4	11				9.9	9.6	10	H 10	9.7	10	8.8	10	11		11	10	8.7	8
G37S	Nitrate as N, dissolved	mg/l	6.55	5.44	0.22	< 0.1	8.39	1.13	6.2	4.7	5.5	5.8	5.8	6.8	3.4	2.7	1.6	4.7	5.7	2.7	6.1	5.7	6.1	1.9	4.4	5	3.8	4.4		2.8	1.8	1.5	H 1.1
G38S	Nitrate as N, dissolved	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.556	< 0.05	0.03	2.3	0.3	< 0.2	0.43	< 0.2	< 0.2	< 0.2	0.57	< 0.2	0.36	0.6	< 0.02	R 0.58	0.073	< 0.02	0.61	2.9	3		1.3	1.4	2.5	1.6
G39S	Nitrate as N, dissolved	mg/l	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	0.1	0.037	< 0.2	0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	12	0.28	0.31	0.81	0.085	0.17	< 0.02	< 0.02	0.2	< 0.02	< 0.02		0.043	< 0.02	< 0.02	0.078
G40S	Nitrate as N, dissolved	mg/l	0.89		1.89	0.36	< 0.1	0.238	1.6	0.43	0.88	1.2	2.1	1.1	1	0.89	2.3	3.2	2.3	2.6	2.4	1.2	0.36	1.1	4	1.5	0.5	0.14		0.075	< 0.2	H< 0.02	0.41
G41D	Nitrate as N, dissolved	mg/l	2.3	3.96	1.5	6.78	7.98	5.64	4.9	7.3	6.3	6.7	2.1	2.5	2	0.25	1.1	7.3	6.2	1.5	2	2.9	Q 18	3.4	5.5	5.4	5.2	6.8		4.6	8.8	7.2	8.6
G41M	Nitrate as N, dissolved	mg/l	0.18	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.026	2.1	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.44	< 0.2	< 0.2	0.25	0.076	0.074	0.061	< 0.02	< 0.02	< 0.02	0.52		0.051	7.8	6.6	3.6
G41S	Nitrate as N, dissolved	mg/l	0.44	< 0.1	< 0.1	< 0.1	< 0.1	0.182	0.16	0.065	< 1	< 0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	1.5	< 0.2	< 0.2	< 0.2	5.3	0.32	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		0.043	0.033	< 0.02	< 0.02
R03S	Nitrate as N, dissolved	mg/l	0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.235	0.3		0.5	0.088	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.42	4.9	< 0.2	0.23	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	H< 0.02		0.043	< 0.2	< 0.02	< 0.02
R42S	Nitrate as N, dissolved	mg/l	< 0.1	< 0.1	0.35	< 0.1	< 0.1	0.118			< 0.2	< 0.05	3.3	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	0.28	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		< 0.02	0.034	< 0.02	0.063
SG1	Nitrate as N, dissolved	mg/l																		9.7	3.2	5	5.8	11	5.2	4.5	4.9	2.1		2.8	2.2	H 3.9	16
SG3	Nitrate as N, dissolved	mg/l																		9.7	3.8	0.46	6.7	11	5.3	4.1	4.7	2.1		2.7	1.7	H 4	16
SG4	Nitrate as N, dissolved	mg/l																		10	3.5	5.9	6.4	11	5.1	4.5	5.1	2.3		3	2.1	H 4	16
G03M	Nitrate as N, total	mg/l		8.43				9.21				9.5				< 0.2				< 0.2				< 0.2				5.3					8.6
G09D	Nitrate as N, total	mg/l		1.27				0.611				0.29				< 0.2				< 0.2				< 0.2				< 0.02					< 0.02
G09M	Nitrate as N, total	mg/l		3.43				2.1				2.6				1.3				1.2				< 0.02				0.054					0.047
G119	Nitrate as N, total	mg/l																		7.8				10				14					14
G130	Nitrate as N, total	mg/l																		4.3				4.5				9.9					H 10
G13D	Nitrate as N, total	mg/l		1.11				1.75				< 0.05				0.24				< 0.2				1.4				0.054		0.24	< 0.02	< 0.02	0.05
G13S	Nitrate as N, total	mg/l		0.32				< 0.1				0.3				< 0.2				0.74				6.9				0.078		0.048	< 0.02	0.17	0.066
G14D	Nitrate as N, total	mg/l		< 0.1				0.169				< 0.05				< 0.2				< 0.2				< 0.02				< 0.02					< 0.02
G15S	Nitrate as N, total	mg/l		< 0.1				< 0.1				< 0.05				< 0.2				< 0.2				H< 0.2				0.63					< 0.02
G16D	Nitrate as N, total	mg/l																		2.2				2.6				2.8					3.6
G16M	Nitrate as N, total	mg/l						6.2				0.38				0.68				4.1				3.8				4					H 8.6
G17S	Nitrate as N, total	mg/l		5.53				7.95				1.7				1.8				1.1				1.5				3.9					H 3.6
G18D	Nitrate as N, total	mg/l		11.9				11.1				11				12				11				11				9.6					7.5
G18S	Nitrate as N, total	mg/l		6.66				14.1				6.4				< 0.2								7				H 27					13
G20D	Nitrate as N, total	mg/l		4.54				4.6				4.6				4.8				4.1				3.8				4.5					5
G33D	Nitrate as N, total	mg/l		12.1				7.29				1.6				4.4				3.4				3.6				7.3					9.6

Table 3
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ Parameters 1997-2004

Well	Parameter	Units	1stQtr97	2ndQtr97	3rdQtr97	4thQtr97	1stQtr98	2ndQtr98	3rdQtr98	4thQtr98	1stQtr99	2ndQtr99	3rdQtr99	4thQtr99	1stQtr00	2ndQtr00	3rdQtr00	4thQtr00	1stQtr01	2ndQtr01	3rdQtr01	4thQtr01	1stQtr02	2ndQtr02	3rdQtr02	4thQtr02	1stQtr03	2ndQtr03	2ndQtr03Re	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
G33S	Nitrate as N, total	mg/l																		3.7				3.3				7.1					8.3
G34D	Nitrate as N, total	mg/l		9.17				5.56				6.9				9.9				9.1				9.3				8.2					8.8
G34S	Nitrate as N, total	mg/l										1.6				5.1				6.7				6				2.2					4.1
G35D	Nitrate as N, total	mg/l		< 0.1				< 0.1				< 0.2				2.2				5.4				0.073				< 0.02					7.1
G35S	Nitrate as N, total	mg/l										3.6				1.1				4.4				0.094				8.2					< 0.02
G36S	Nitrate as N, total	mg/l		11.6				11				11				6.8				6.5				5.3				11					12
G37D	Nitrate as N, total	mg/l										8.9				11				9.2				11				11					7.7
G37S	Nitrate as N, total	mg/l		5.7				5.27				3.9				2.7				2.8				1.8				4.6					H 1
G38S	Nitrate as N, total	mg/l		< 0.1				0.488				6.9				< 0.2				2.2				0.089				3					1.7
G39S	Nitrate as N, total	mg/l		0.11				< 0.1				0.21				< 0.2				0.3				< 0.02				< 0.02					0.075
G40S	Nitrate as N, total	mg/l						0.264				1.2				0.82				2.4				1.1				0.13					< 0.02
G41D	Nitrate as N, total	mg/l		4.08				5.77				6.9				0.25				1.1				4.9				6.2					8.2
G41M	Nitrate as N, total	mg/l		< 0.1				< 0.1				< 0.05				< 0.2				< 0.2				< 0.02				0.32					3.8
G41S	Nitrate as N, total	mg/l		< 0.1				< 0.1				< 0.05				< 0.2				< 0.2				< 0.02				< 0.02					< 0.02
R03S	Nitrate as N, total	mg/l		< 0.1				< 0.1				0.078				< 0.2				< 0.2				< 0.02				H< 0.02					0.041
R42S	Nitrate as N, total	mg/l		< 0.1				0.138				< 0.05				< 0.2				< 0.2				< 0.02				< 0.02					< 0.02
SG1	Nitrate as N, total	mg/l																		9.7				11				1.8					16
SG3	Nitrate as N, total	mg/l																		9.7				11				2.1					16
SG4	Nitrate as N, total	mg/l																		9.8				11				2.5					15
G03M	Potassium, total	mg/l		8				3.42				3.9				38				88				63				13					5.8
G09D	Potassium, total	mg/l		1.5				< 2				0.94				0.73				0.89				0.64				1					0.57
G09M	Potassium, total	mg/l		< 1.1				< 2				0.89				0.84				0.7				0.6				0.68					0.76
G119	Potassium, total	mg/l																		12				0.76				1.5					1.2
G130	Potassium, total	mg/l																		7.9				0.56				0.74					0.78
G13D	Potassium, total	mg/l		5.2				4.78				11				5.8				4.8				11				10		9	6.1	9.8	4.7
G13S	Potassium, total	mg/l		4.8				6.81				5.3				4				4				23				11		11	10	9.2	10
G14D	Potassium, total	mg/l		3.1				2.3				2.2				2.3				2.3				2.4				2.7					3.4
G15S	Potassium, total	mg/l		57				60.9				56				60				59				48				110					83
G16D	Potassium, total	mg/l																		1.2				0.92				1.1					2.1
G16M	Potassium, total	mg/l						7.08				170				18				18				10				19					14
G17S	Potassium, total	mg/l		2				3.61				6.4				10				6.1				1.4				2.2					1.9
G18D	Potassium, total	mg/l		3.4				2.34				3				2.8				3				2.6				3.4					3.5
G18S	Potassium, total	mg/l		7.3				15.9				15				K 69								34				51					74
G20D	Potassium, total	mg/l		1.4				< 2				1.6				1.7				1.5				2.6				2.5					2.4
G33D	Potassium, total	mg/l		2.3				< 2				2.2				1.2				1.1				0.7				0.92					4.8
G33S	Potassium, total	mg/l																		3.3				0.61				0.65					0.61
G34D	Potassium, total	mg/l		2.5				< 2				1.9				1.7				1.8				1.6				2.9					5.3
G34S	Potassium, total	mg/l										17				31				11				4.8				5.1					11
G35D	Potassium, total	mg/l		65				34				100				46				7.5				24				25					10
G35S	Potassium, total	mg/l										24				21				20				19				27					20
G36S	Potassium, total	mg/l		1.8				< 2				1.4				0.94				0.86				0.65				0.94					0.9
G37D	Potassium, total	mg/l										6.7				3.3				2.8				2				2.2					2.7
G37S	Potassium, total	mg/l		2.7				2.51				12				12				5.1				3.1				4.8					5.1
G38S	Potassium, total	mg/l		46				37.8				37				30				1.2				25				12					29
G39S	Potassium, total	mg/l		4.2				5.02				5.6				9.4				8.9				8.6				9.5					8.9
G40S	Potassium, total	mg/l						30.2				30				16				18				16				19					22
G41D	Potassium, total	mg/l		9.4				< 2				1.9				25				25				6.5				1.3					1
G41M	Potassium, total	mg/l		80				81.7				62				49				58				49				10					2.9
G41S	Potassium, total	mg/l		84				54.8				100				33				52				53				56					46
R03S	Potassium, total	mg/l		18				14				23				82				91				81				44					25
R42S	Potassium, total	mg/l		3.4				3.74				18				2.5				1.2				0.61				0.63					1
SG1	Potassium, total	mg/l																		1.1				1.1				2.5					1.4
SG3	Potassium, total	mg/l																		1.1				1				1.3					1.1
SG4	Potassium, total	mg/l																		1.2				0.77				1.8					1.3
G03M	Sodium, total	mg/l		17				10.9				12				150				260				170				17					13
G09D	Sodium, total	mg/l		16				16.7				10				10				18				17				85					24
G09M	Sodium, total	mg/l		41				53				57				66				70				65				68					74
G119	Sodium, total	mg/l																		8.8				5.4				7.6					6.9
G130	Sodium, total	mg/l																		7.2				4.5				4.6					9.3
G13D	Sodium, total	mg/l		33				33.8				45				37				39				23				32		34	35	35	40
G13S	Sodium, total	mg/l		52				36.1				33				28				39				18				22		22	24	36	33
G14D	Sodium, total	mg/l		12				17.1				12				19				19				14				12					15
G15S	Sodium, total	mg/l		170				175				170				180				130				140				350					240
G16D	Sodium, total	mg/l																		4.7				4.1				4.4					4.6
G16M	Sodium, total	mg/l						14.6				470				29				37				14				27					20
G17S	Sodium, total	mg/l		18				27.2				30				23				10				20				19					10
G18D	Sodium, total	mg/l		9.1				9.17				8.6				9.3				11				10				11					8
G18S	Sodium, total	mg/l		55				76.1				41				K 350								22				30					22
G20D	Sodium, total	mg/l		8				6.36				8.1				7.6				6.7				4.7				6.6					6.3
G33D	Sodium, total	mg/l		9.1				5.92				7.3				5.3				5.3				3.9				4.3					6.6
G33S	Sodium, total	mg/l																		6.1				4.5				4.2					4.4
G34D	Sodium, total	mg/l		6.2				5.83				6.1				6.3				6.5				6.1				4.1					3.3
G34S	Sodium, total	mg/l										48				32				14				12				42					30
G35D	Sodium, total	mg/l		160				28.1				18				140				28				83				25					14
G35S	Sodium, total	mg/l										20				24				22				42				61					39
G36S	Sodium, total	mg/l		9.8				9.25				11				4.6				5.2				4.1				9.8					11
G37D	Sodium, total	mg/l										9.8				8.5				8				7.6				9.4					9.9

Table 3
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ Parameters 1997-2004

Well	Parameter	Units	1stQtr97	2ndQtr97	3rdQtr97	4thQtr97	1stQtr98	2ndQtr98	3rdQtr98	4thQtr98	1stQtr99	2ndQtr99	3rdQtr99	4thQtr99	1stQtr00	2ndQtr00	3rdQtr00	4thQtr00	1stQtr01	2ndQtr01	3rdQtr01	4thQtr01	1stQtr02	2ndQtr02	3rdQtr02	4thQtr02	1stQtr03	2ndQtr03	2ndQtr03Re	3rdQtr03	4thQtr03	1stQtr04	2ndQtr04
G37S	Sodium, total	mg/l		4.7				4.56				6.1				11				7				15				25					45
G38S	Sodium, total	mg/l		99				57.8				83				52				4.7				97				44					94
G39S	Sodium, total	mg/l		45				42				45				47				58				47				47					45
G40S	Sodium, total	mg/l						89.1				63				63				44				45				52					62
G41D	Sodium, total	mg/l		28				4.72				6.6				88				60				17				6.3					6.1
G41M	Sodium, total	mg/l		180				164				150				100				140				160				16					13
G41S	Sodium, total	mg/l		190				116				280				51				120				150				95					51
R03S	Sodium, total	mg/l		37				44.7				43				160				160				210				58					30
R42S	Sodium, total	mg/l		43				71.8				72				55				54				50				29					43
SG1	Sodium, total	mg/l																		11				9.9				16					14
SG3	Sodium, total	mg/l																		11				9.4				14					13
SG4	Sodium, total	mg/l																		11				8.9				15					13
G03M	Tetrahydrofuran	ug/l		< 5				< 5				< 5				21				43				34				< 5					< 5
G09D	Tetrahydrofuran	ug/l		< 5				< 5				< 5				< 5				< 5				< 5				< 5					< 5
G09M	Tetrahydrofuran	ug/l		< 5				< 5				< 5				< 5				< 5				< 5				< 5					< 5
G119	Tetrahydrofuran	ug/l																		< 5				< 5				< 5					< 5
G130	Tetrahydrofuran	ug/l																		< 5				< 5				< 5					< 5
G13D	Tetrahydrofuran	ug/l		< 5				< 5				< 5				< 5				< 5				< 5				< 5		< 5	< 5	< 5	< 5
G13S	Tetrahydrofuran	ug/l		< 5				< 5				< 5				< 5				< 5				20				< 5		< 5	< 5	< 5	< 5
G14D	Tetrahydrofuran	ug/l		< 5				< 5				< 5				< 5				< 5				5				< 5					< 5
G15S	Tetrahydrofuran	ug/l		51				39				34				29				22				91				85	74				56
G16D	Tetrahydrofuran	ug/l																		< 5				< 5				< 5					< 5
G16M	Tetrahydrofuran	ug/l						< 5				59				< 5				< 5				< 5				< 5					< 5
G17S	Tetrahydrofuran	ug/l		< 5				< 5				< 5				< 5				< 5				< 5				< 5					< 5
G18D	Tetrahydrofuran	ug/l		< 5				< 5				< 5				< 5				< 5				< 5				< 5					< 5
G18S	Tetrahydrofuran	ug/l		< 5				21				< 5				240								< 5				< 5					< 5
G20D	Tetrahydrofuran	ug/l		< 5				< 5				< 5				< 5				< 5				< 5				< 5					< 5
G33D	Tetrahydrofuran	ug/l		< 5				< 5				< 5				< 5				< 5				< 5				< 5					< 5
G33S	Tetrahydrofuran	ug/l																		< 5				< 5				< 5					< 5
G34D	Tetrahydrofuran	ug/l		< 5				< 5				< 5				< 5				< 5				< 5				< 5					< 5
G34S	Tetrahydrofuran	ug/l										< 5				< 5				< 5				< 5				< 5					< 5
G35D	Tetrahydrofuran	ug/l		27				< 5				16				< 5				< 5				18				< 5					< 5
G35S	Tetrahydrofuran	ug/l										< 5				< 5				< 5				< 5				< 5					< 5
G36S	Tetrahydrofuran	ug/l		< 5				< 5				< 5				< 5				< 5				< 5				< 5					< 5
G37D	Tetrahydrofuran	ug/l										< 5				< 5				< 5				< 5				< 5					< 5
G37S	Tetrahydrofuran	ug/l		< 5				< 5				< 5				< 5				< 5				< 5				< 5					8
G38S	Tetrahydrofuran	ug/l		13				12				18				< 5				< 5				10				12	22				17
G39S	Tetrahydrofuran	ug/l		6				< 5				< 5				< 5				< 5				< 5				< 5					< 5
G40S	Tetrahydrofuran	ug/l						< 5				< 5				< 5				< 5				< 5				< 5					8
G41D	Tetrahydrofuran	ug/l		6				< 5				< 5				13				11				< 5				< 5					< 5
G41M	Tetrahydrofuran	ug/l		37				30				22				14				21				32				< 5					< 5
G41S	Tetrahydrofuran	ug/l		23				26				48				5.0				13				26				9	10				< 5
R03S	Tetrahydrofuran	ug/l		< 5				< 5				< 5				29				28				34				6	< 5				< 5
R42S	Tetrahydrofuran	ug/l		10				6				< 5				< 5				< 5				< 5				< 5					< 5
SG1	Tetrahydrofuran	ug/l																		< 5				< 5				< 5					< 5
SG3	Tetrahydrofuran	ug/l																		< 5				< 5				< 5					< 5
SG4	Tetrahydrofuran	ug/l																		< 5				< 5				< 5					< 5

Notes: A shaded box indicates a detection above the AGQS value.
A list of Laboratory Data Qualifiers is supplied in Appendix J.

Table 4
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ parameters prior to 1997

Well	Parameter	Units	4thQtr84	1stQtr85	1stQtr88	2ndQtr88	3rdQtr88	1stQtr90	2ndQtr90	1stQtr92	3rdQtr93	4thQtr93	1stQtr94	2ndQtr94	3rdQtr94	4thQtr94	1stQtr95	2ndQtr95	2ndQtr96	4thQtr96
G09D	1,2,3-Trichlorobenzene	ug/l									ND	ND	ND 5							
G09D	1,2,4-Trichlorobenzene	ug/l			ND	ND					ND	ND	ND 5							
G09D	1,4-Dichlorobenzene	ug/l	5.5	0.6		3	4.2	ND	ND	ND	ND	ND	ND 5							
G09D	Ammonia as N, dissolved	mg/l																		
G09D	Ammonia as N, total	mg/l									ND	0.17	ND							0.7
G09D	Arsenic, Dissolved	ug/l	< 10	< 10		2	ND						ND 2							< 2.2
G09D	Arsenic, total	ug/l								< 169	1	ND								
G09D	Barium, total	ug/l																		
G09D	Barium, dissolved	ug/l	210	350		265	207				ND	140	140							
G09D	Boron, Dissolved	ug/l									ND	ND	ND 100							< 110
G09D	Boron, total	ug/l																		
G09D	Chloride, Dissolved	mg/l																		
G09D	Chloride, total	mg/l	25	35		62	60	73	70	14	36	30	ND							110
G09D	Ethylbenzene	ug/l	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND 5							
G09D	Fluoride, total	mg/l																		
G09D	Nitrate as N, dissolved	mg/l																		
G09D	Nitrate as N, total	mg/l	ND	ND	ND	ND	ND	ND	ND		1.03	0.41	1.95							3.5
G09D	Potassium, total	mg/l																		
G09D	Sodium, total	mg/l	ND	ND		27	ND			0.6	16	17.1	19.6							
G09D	Tetrahydrofuran	ug/l																		
G09M	1,2,3-Trichlorobenzene	ug/l									1	5	5							
G09M	1,2,4-Trichlorobenzene	ug/l				ND					1	5	5							
G09M	1,4-Dichlorobenzene	ug/l	0.3	4.6		9	7	ND	ND	ND	1	5	5							
G09M	Ammonia as N, dissolved	mg/l									0.001	0.1	ND							
G09M	Ammonia as N, total	mg/l																		0.32
G09M	Arsenic, Dissolved	ug/l	< 10	< 10		ND	ND			ND	1	2	2							< 2.2
G09M	Arsenic, total	ug/l																		
G09M	Barium, total	ug/l																		
G09M	Barium, dissolved	ug/l	200	280		172	188			ND	200	140	170							
G09M	Boron, Dissolved	ug/l									50	100	100							< 110
G09M	Boron, total	ug/l																		
G09M	Chloride, Dissolved	mg/l																		
G09M	Chloride, total	mg/l	19	19		28	27	20	10	16	12	34	ND							27
G09M	Ethylbenzene	ug/l	ND	ND		ND	0.2	ND	ND	ND	1	5	5							
G09M	Fluoride, total	mg/l																		
G09M	Nitrate as N, dissolved	mg/l																		
G09M	Nitrate as N, total	mg/l	ND	ND		ND	ND	ND	ND		2.32	2.84	2.84							1.95
G09M	Potassium, total	mg/l																		
G09M	Sodium, total	mg/l	ND	ND		14	ND			0.632	10	17.8	17.1							
G09M	Tetrahydrofuran	ug/l																		
G119	1,2,3-Trichlorobenzene	ug/l																		
G119	1,2,4-Trichlorobenzene	ug/l										ND								
G119	1,4-Dichlorobenzene	ug/l				ND	ND					ND						ND		
G119	Ammonia as N, dissolved	mg/l																		
G119	Ammonia as N, total	mg/l																		
G119	Arsenic, Dissolved	ug/l				ND	ND					ND						ND		
G119	Arsenic, total	ug/l																		
G119	Barium, total	ug/l																		
G119	Barium, dissolved	ug/l				19	33					25						20		
G119	Boron, Dissolved	ug/l																ND		
G119	Boron, total	ug/l																		
G119	Chloride, Dissolved	mg/l																		
G119	Chloride, total	mg/l				3	8					17						10		
G119	Ethylbenzene	ug/l				ND	ND					ND						ND		
G119	Fluoride, total	mg/l																		
G119	Nitrate as N, dissolved	mg/l																		

Table 4
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ parameters prior to 1997

Well	Parameter	Units	4thQtr84	1stQtr85	1stQtr88	2ndQtr88	3rdQtr88	1stQtr90	2ndQtr90	1stQtr92	3rdQtr93	4thQtr93	1stQtr94	2ndQtr94	3rdQtr94	4thQtr94	1stQtr95	2ndQtr95	2ndQtr96	4thQtr96
G119	Nitrate as N, total	mg/l				ND	ND											0.06		
G119	Potassium, total	mg/l																		
G119	Sodium, total	mg/l				ND	ND					4.14						3.52		
G119	Tetrahydrofuran	ug/l																		
G14D	1,2,3-Trichlorobenzene	ug/l														ND				
G14D	1,2,4-Trichlorobenzene	ug/l														ND				
G14D	1,4-Dichlorobenzene	ug/l				45	63	ND	ND	16				12	11	8				
G14D	Ammonia as N, dissolved	mg/l																		
G14D	Ammonia as N, total	mg/l												1500	ND	1.52				1.16
G14D	Arsenic, Dissolved	ug/l				ND	20			17.6				ND	ND	12				49
G14D	Arsenic, total	ug/l																		
G14D	Barium, total	ug/l																		
G14D	Barium, dissolved	ug/l				742	###			488				ND	ND	380				
G14D	Boron, Dissolved	ug/l												####	200	130				< 110
G14D	Boron, total	ug/l																		
G14D	Chloride, Dissolved	mg/l																		
G14D	Chloride, total	mg/l				42	44	176	134	143				####	####	76				7.8
G14D	Ethylbenzene	ug/l				2.1	ND	ND	ND	ND				ND	ND	ND				
G14D	Fluoride, total	mg/l																		
G14D	Nitrate as N, dissolved	mg/l												ND	ND	ND				
G14D	Nitrate as N, total	mg/l				ND	ND	ND	ND					ND	ND	0.02				0.11
G14D	Potassium, total	mg/l																		
G14D	Sodium, total	mg/l				ND	ND			78.3				ND	ND	63.2				
G14D	Tetrahydrofuran	ug/l																		
G16D	1,2,3-Trichlorobenzene	ug/l																ND		
G16D	1,2,4-Trichlorobenzene	ug/l																ND		
G16D	1,4-Dichlorobenzene	ug/l																ND		
G16D	Ammonia as N, dissolved	mg/l																		
G16D	Ammonia as N, total	mg/l																3.66		
G16D	Arsenic, Dissolved	ug/l																ND		
G16D	Arsenic, total	ug/l																		
G16D	Barium, total	ug/l																		
G16D	Barium, dissolved	ug/l																90		
G16D	Boron, Dissolved	ug/l																ND		
G16D	Boron, total	ug/l																		
G16D	Chloride, Dissolved	mg/l																		
G16D	Chloride, total	mg/l																17		
G16D	Ethylbenzene	ug/l																ND		
G16D	Fluoride, total	mg/l																		
G16D	Nitrate as N, dissolved	mg/l																		
G16D	Nitrate as N, total	mg/l																3.42		
G16D	Potassium, total	mg/l																		
G16D	Sodium, total	mg/l																4.3		
G16D	Tetrahydrofuran	ug/l																		
G16M	1,2,3-Trichlorobenzene	ug/l																		
G16M	1,2,4-Trichlorobenzene	ug/l				ND						ND	ND							
G16M	1,4-Dichlorobenzene	ug/l				ND	ND	ND	ND			4	ND					ND		
G16M	Ammonia as N, dissolved	mg/l																		
G16M	Ammonia as N, total	mg/l																		
G16M	Arsenic, Dissolved	ug/l				ND	ND					ND	ND		ND			ND		
G16M	Arsenic, total	ug/l																		
G16M	Barium, total	ug/l																		
G16M	Barium, dissolved	ug/l				ND	50					44	22					40		
G16M	Boron, Dissolved	ug/l																ND		
G16M	Boron, total	ug/l																		
G16M	Chloride, Dissolved	mg/l																		

Table 4
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ parameters prior to 1997

Well	Parameter	Units	4thQtr84	1stQtr85	1stQtr88	2ndQtr88	3rdQtr88	1stQtr90	2ndQtr90	1stQtr92	3rdQtr93	4thQtr93	1stQtr94	2ndQtr94	3rdQtr94	4thQtr94	1stQtr95	2ndQtr95	2ndQtr96	4thQtr96
G16M	Chloride, total	mg/l				7	7	7	7			31	24		26			13		
G16M	Ethylbenzene	ug/l				ND	ND	ND	ND			ND	ND					ND		
G16M	Fluoride, total	mg/l																		
G16M	Nitrate as N, dissolved	mg/l																		
G16M	Nitrate as N, total	mg/l				ND	ND	ND	ND									4.87		
G16M	Potassium, total	mg/l																		
G16M	Sodium, total	mg/l				ND	ND					5.4	4.32					4.64		
G16M	Tetrahydrofuran	ug/l																		
G16S	1,2,3-Trichlorobenzene	ug/l																		
G16S	1,2,4-Trichlorobenzene	ug/l				ND						ND	ND							
G16S	1,4-Dichlorobenzene	ug/l				ND	ND	ND	ND			ND	ND					ND		
G16S	Ammonia as N, dissolved	mg/l																		
G16S	Ammonia as N, total	mg/l																		57.9
G16S	Arsenic, Dissolved	ug/l				ND	ND					ND	ND		ND			ND		< 2.2
G16S	Arsenic, total	ug/l																		
G16S	Barium, total	ug/l																		
G16S	Barium, dissolved	ug/l				170	288					430	273					240		
G16S	Boron, Dissolved	ug/l																ND		630
G16S	Boron, total	ug/l																		
G16S	Chloride, Dissolved	mg/l																		
G16S	Chloride, total	mg/l				41	101	39	38			119	33		44			38		380
G16S	Ethylbenzene	ug/l				ND	ND	ND	ND			ND	ND					ND		
G16S	Fluoride, total	mg/l																		
G16S	Nitrate as N, dissolved	mg/l																		
G16S	Nitrate as N, total	mg/l				ND	ND	ND	ND									8.63		< 0.1
G16S	Potassium, total	mg/l																		
G16S	Sodium, total	mg/l				11	ND					55.3	11.9					12.4		
G16S	Tetrahydrofuran	ug/l																		
G17S	1,2,3-Trichlorobenzene	ug/l																		
G17S	1,2,4-Trichlorobenzene	ug/l				ND						ND							ND	
G17S	1,4-Dichlorobenzene	ug/l				ND	ND					ND						ND	ND	
G17S	Ammonia as N, dissolved	mg/l																		
G17S	Ammonia as N, total	mg/l																	0.12	1
G17S	Arsenic, Dissolved	ug/l				ND	ND					ND			ND			ND	5	< 2.2
G17S	Arsenic, total	ug/l																		
G17S	Barium, total	ug/l																		
G17S	Barium, dissolved	ug/l				ND	68					58						70	460	
G17S	Boron, Dissolved	ug/l																ND		< 110
G17S	Boron, total	ug/l																		
G17S	Chloride, Dissolved	mg/l																		
G17S	Chloride, total	mg/l				28	26					162			120			229		47
G17S	Ethylbenzene	ug/l				ND	ND					ND						ND	ND	
G17S	Fluoride, total	mg/l																		
G17S	Nitrate as N, dissolved	mg/l																		
G17S	Nitrate as N, total	mg/l				ND												4.08		8.38
G17S	Potassium, total	mg/l					ND													
G17S	Sodium, total	mg/l				8.4	ND					15.8						42.8		
G17S	Tetrahydrofuran	ug/l																		
G18D	1,2,3-Trichlorobenzene	ug/l																		
G18D	1,2,4-Trichlorobenzene	ug/l				ND														
G18D	1,4-Dichlorobenzene	ug/l				ND	ND											ND		
G18D	Ammonia as N, dissolved	mg/l																		
G18D	Ammonia as N, total	mg/l																		0.05
G18D	Arsenic, Dissolved	ug/l				ND	ND					ND						ND		< 2.2
G18D	Arsenic, total	ug/l																		
G18D	Barium, total	ug/l																		

Table 4
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ parameters prior to 1997

Well	Parameter	Units	4thQtr84	1stQtr85	1stQtr88	2ndQtr88	3rdQtr88	1stQtr90	2ndQtr90	1stQtr92	3rdQtr93	4thQtr93	1stQtr94	2ndQtr94	3rdQtr94	4thQtr94	1stQtr95	2ndQtr95	2ndQtr96	4thQtr96
G18D	Barium, dissolved	ug/l				ND	32					38						50		
G18D	Boron, Dissolved	ug/l																ND		< 110
G18D	Boron, total	ug/l																		
G18D	Chloride, Dissolved	mg/l																		
G18D	Chloride, total	mg/l				12	14					24						22		25
G18D	Ethylbenzene	ug/l				ND	ND											ND		
G18D	Fluoride, total	mg/l																		
G18D	Nitrate as N, dissolved	mg/l																		
G18D	Nitrate as N, total	mg/l				ND	ND											11.8		12.2
G18D	Potassium, total	mg/l																		
G18D	Sodium, total	mg/l				22	ND					6.29						8.62		
G18D	Tetrahydrofuran	ug/l																		
G18S	1,2,3-Trichlorobenzene	ug/l																		
G18S	1,2,4-Trichlorobenzene	ug/l																		
G18S	1,4-Dichlorobenzene	ug/l					ND											ND		
G18S	Ammonia as N, dissolved	mg/l																		
G18S	Ammonia as N, total	mg/l																		1.25
G18S	Arsenic, Dissolved	ug/l					ND					ND						ND		< 2.2
G18S	Arsenic, total	ug/l																		
G18S	Barium, total	ug/l																		
G18S	Barium, dissolved	ug/l					467					136						180		
G18S	Boron, Dissolved	ug/l																ND		< 110
G18S	Boron, total	ug/l																		
G18S	Chloride, Dissolved	mg/l																		
G18S	Chloride, total	mg/l					33					23						314		64
G18S	Ethylbenzene	ug/l					ND											ND		
G18S	Fluoride, total	mg/l																		
G18S	Nitrate as N, dissolved	mg/l																		
G18S	Nitrate as N, total	mg/l					ND											4.21		< 0.1
G18S	Potassium, total	mg/l																		
G18S	Sodium, total	mg/l					ND					15.7						102		
G18S	Tetrahydrofuran	ug/l																		
G20D	1,2,3-Trichlorobenzene	ug/l									ND	ND	ND							
G20D	1,2,4-Trichlorobenzene	ug/l									ND	ND	ND							
G20D	1,4-Dichlorobenzene	ug/l								ND	ND	ND	ND							
G20D	Ammonia as N, dissolved	mg/l																		
G20D	Ammonia as N, total	mg/l									ND	ND	ND							0.19
G20D	Arsenic, Dissolved	ug/l								ND	ND	ND	ND							2.4
G20D	Arsenic, total	ug/l																		
G20D	Barium, total	ug/l																		
G20D	Barium, dissolved	ug/l								64	ND	110	100							
G20D	Boron, Dissolved	ug/l									ND	ND	ND							< 110
G20D	Boron, total	ug/l																		
G20D	Chloride, Dissolved	mg/l																		
G20D	Chloride, total	mg/l								14	14	12	ND							16
G20D	Ethylbenzene	ug/l								ND	ND	ND	ND							
G20D	Fluoride, total	mg/l																		
G20D	Nitrate as N, dissolved	mg/l																		
G20D	Nitrate as N, total	mg/l									1.78	2.32	2.59							4.31
G20D	Potassium, total	mg/l																		
G20D	Sodium, total	mg/l								8.8	6	4.94	4.2							
G20D	Tetrahydrofuran	ug/l																		
G33D	1,2,3-Trichlorobenzene	ug/l																		
G33D	1,2,4-Trichlorobenzene	ug/l																		
G33D	1,4-Dichlorobenzene	ug/l																ND		
G33D	Ammonia as N, dissolved	mg/l																		

Table 4
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ parameters prior to 1997

Well	Parameter	Units	4thQtr84	1stQtr85	1stQtr88	2ndQtr88	3rdQtr88	1stQtr90	2ndQtr90	1stQtr92	3rdQtr93	4thQtr93	1stQtr94	2ndQtr94	3rdQtr94	4thQtr94	1stQtr95	2ndQtr95	2ndQtr96	4thQtr96
G33D	Ammonia as N, total	mg/l																		0.1
G33D	Arsenic, Dissolved	ug/l																ND		< 2.2
G33D	Arsenic, total	ug/l																		
G33D	Barium, total	ug/l																		
G33D	Barium, dissolved	ug/l																80		
G33D	Boron, Dissolved	ug/l																ND		< 110
G33D	Boron, total	ug/l																		
G33D	Chloride, Dissolved	mg/l																		
G33D	Chloride, total	mg/l																21		24
G33D	Ethylbenzene	ug/l																ND		
G33D	Fluoride, total	mg/l																		
G33D	Nitrate as N, dissolved	mg/l																		
G33D	Nitrate as N, total	mg/l																12		12.6
G33D	Potassium, total	mg/l																		
G33D	Sodium, total	mg/l																5.76		
G33D	Tetrahydrofuran	ug/l																		
G33S	1,2,3-Trichlorobenzene	ug/l																		
G33S	1,2,4-Trichlorobenzene	ug/l																		
G33S	1,4-Dichlorobenzene	ug/l																ND		
G33S	Ammonia as N, dissolved	mg/l																		
G33S	Ammonia as N, total	mg/l																		
G33S	Arsenic, Dissolved	ug/l																ND		
G33S	Arsenic, total	ug/l																		
G33S	Barium, total	ug/l																		
G33S	Barium, dissolved	ug/l																80		
G33S	Boron, Dissolved	ug/l																ND		
G33S	Boron, total	ug/l																		
G33S	Chloride, Dissolved	mg/l																		
G33S	Chloride, total	mg/l																15		
G33S	Ethylbenzene	ug/l																ND		
G33S	Fluoride, total	mg/l																		
G33S	Nitrate as N, dissolved	mg/l																		
G33S	Nitrate as N, total	mg/l																9.07		
G33S	Potassium, total	mg/l																		
G33S	Sodium, total	mg/l																3.78		
G33S	Tetrahydrofuran	ug/l																		
G34D	1,2,3-Trichlorobenzene	ug/l																		
G34D	1,2,4-Trichlorobenzene	ug/l																		
G34D	1,4-Dichlorobenzene	ug/l																ND		
G34D	Ammonia as N, dissolved	mg/l																		
G34D	Ammonia as N, total	mg/l																		0.1
G34D	Arsenic, Dissolved	ug/l																ND		2.7
G34D	Arsenic, total	ug/l																		
G34D	Barium, total	ug/l																		
G34D	Barium, dissolved	ug/l																50		
G34D	Boron, Dissolved	ug/l																ND		< 110
G34D	Boron, total	ug/l																		
G34D	Chloride, Dissolved	mg/l																		
G34D	Chloride, total	mg/l																27		23
G34D	Ethylbenzene	ug/l																ND		
G34D	Fluoride, total	mg/l																		
G34D	Nitrate as N, dissolved	mg/l																		
G34D	Nitrate as N, total	mg/l																7.92		8.83
G34D	Potassium, total	mg/l																		
G34D	Sodium, total	mg/l																7.05		
G34D	Tetrahydrofuran	ug/l																		

Table 4
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ parameters prior to 1997

Well	Parameter	Units	4thQtr84	1stQtr85	1stQtr88	2ndQtr88	3rdQtr88	1stQtr90	2ndQtr90	1stQtr92	3rdQtr93	4thQtr93	1stQtr94	2ndQtr94	3rdQtr94	4thQtr94	1stQtr95	2ndQtr95	2ndQtr96	4thQtr96
G34S	1,2,3-Trichlorobenzene	ug/l																		
G34S	1,2,4-Trichlorobenzene	ug/l																		
G34S	1,4-Dichlorobenzene	ug/l																ND		
G34S	Ammonia as N, dissolved	mg/l																		
G34S	Ammonia as N, total	mg/l																24.4		
G34S	Arsenic, Dissolved	ug/l																ND		
G34S	Arsenic, total	ug/l																		
G34S	Barium, total	ug/l																		
G34S	Barium, dissolved	ug/l																250		
G34S	Boron, Dissolved	ug/l																ND		
G34S	Boron, total	ug/l																		
G34S	Chloride, Dissolved	mg/l																		
G34S	Chloride, total	mg/l																81		
G34S	Ethylbenzene	ug/l																ND		
G34S	Fluoride, total	mg/l																		
G34S	Nitrate as N, dissolved	mg/l																		
G34S	Nitrate as N, total	mg/l																1.26		
G34S	Potassium, total	mg/l																		
G34S	Sodium, total	mg/l																37.8		
G34S	Tetrahydrofuran	ug/l																		
G35D	1,2,3-Trichlorobenzene	ug/l																ND		
G35D	1,2,4-Trichlorobenzene	ug/l																ND		
G35D	1,4-Dichlorobenzene	ug/l																ND		
G35D	Ammonia as N, dissolved	mg/l																		
G35D	Ammonia as N, total	mg/l																121		8.5
G35D	Arsenic, Dissolved	ug/l																ND		< 2.2
G35D	Arsenic, total	ug/l																		
G35D	Barium, total	ug/l																		
G35D	Barium, dissolved	ug/l																560		
G35D	Boron, Dissolved	ug/l																710		< 110
G35D	Boron, total	ug/l																		
G35D	Chloride, Dissolved	mg/l																		
G35D	Chloride, total	mg/l																324		31
G35D	Ethylbenzene	ug/l																ND		
G35D	Fluoride, total	mg/l																		
G35D	Nitrate as N, dissolved	mg/l																		
G35D	Nitrate as N, total	mg/l																50		5
G35D	Potassium, total	mg/l																		
G35D	Sodium, total	mg/l																133		
G35D	Tetrahydrofuran	ug/l																		
G35S	1,2,3-Trichlorobenzene	ug/l																ND		
G35S	1,2,4-Trichlorobenzene	ug/l																ND		
G35S	1,4-Dichlorobenzene	ug/l																ND		
G35S	Ammonia as N, dissolved	mg/l																		
G35S	Ammonia as N, total	mg/l																6.1		
G35S	Arsenic, Dissolved	ug/l																ND		
G35S	Arsenic, total	ug/l																		
G35S	Barium, total	ug/l																		
G35S	Barium, dissolved	ug/l																240		
G35S	Boron, Dissolved	ug/l																100		
G35S	Boron, total	ug/l																		
G35S	Chloride, Dissolved	mg/l																		
G35S	Chloride, total	mg/l																41		
G35S	Ethylbenzene	ug/l																ND		
G35S	Fluoride, total	mg/l																		
G35S	Nitrate as N, dissolved	mg/l																		

Table 4
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ parameters prior to 1997

Well	Parameter	Units	4thQtr84	1stQtr85	1stQtr88	2ndQtr88	3rdQtr88	1stQtr90	2ndQtr90	1stQtr92	3rdQtr93	4thQtr93	1stQtr94	2ndQtr94	3rdQtr94	4thQtr94	1stQtr95	2ndQtr95	2ndQtr96	4thQtr96
G35S	Nitrate as N, total	mg/l																7.09		
G35S	Potassium, total	mg/l																		
G35S	Sodium, total	mg/l																27.7		
G35S	Tetrahydrofuran	ug/l																		
G36S	1,2,3-Trichlorobenzene	ug/l																		
G36S	1,2,4-Trichlorobenzene	ug/l																		
G36S	1,4-Dichlorobenzene	ug/l																ND		
G36S	Ammonia as N, dissolved	mg/l																		
G36S	Ammonia as N, total	mg/l																		0.14
G36S	Arsenic, Dissolved	ug/l																ND		< 2.2
G36S	Arsenic, total	ug/l																		
G36S	Barium, total	ug/l																		
G36S	Barium, dissolved	ug/l																160		
G36S	Boron, Dissolved	ug/l																ND		< 110
G36S	Boron, total	ug/l																		
G36S	Chloride, Dissolved	mg/l																		
G36S	Chloride, total	mg/l																28		27
G36S	Ethylbenzene	ug/l																ND		
G36S	Fluoride, total	mg/l																		
G36S	Nitrate as N, dissolved	mg/l																		
G36S	Nitrate as N, total	mg/l																12.7		12.7
G36S	Potassium, total	mg/l																		
G36S	Sodium, total	mg/l																6.22		
G36S	Tetrahydrofuran	ug/l																		
G37D	1,2,3-Trichlorobenzene	ug/l																		
G37D	1,2,4-Trichlorobenzene	ug/l																		
G37D	1,4-Dichlorobenzene	ug/l																ND		
G37D	Ammonia as N, dissolved	mg/l																		
G37D	Ammonia as N, total	mg/l																6.11		
G37D	Arsenic, Dissolved	ug/l																ND		
G37D	Arsenic, total	ug/l																		
G37D	Barium, total	ug/l																		
G37D	Barium, dissolved	ug/l																70		
G37D	Boron, Dissolved	ug/l																ND		
G37D	Boron, total	ug/l																		
G37D	Chloride, Dissolved	mg/l																		
G37D	Chloride, total	mg/l																25		
G37D	Ethylbenzene	ug/l																ND		
G37D	Fluoride, total	mg/l																		
G37D	Nitrate as N, dissolved	mg/l																		
G37D	Nitrate as N, total	mg/l																9.98		
G37D	Potassium, total	mg/l																		
G37D	Sodium, total	mg/l																8.85		
G37D	Tetrahydrofuran	ug/l																		
G37S	1,2,3-Trichlorobenzene	ug/l																		
G37S	1,2,4-Trichlorobenzene	ug/l																		
G37S	1,4-Dichlorobenzene	ug/l																ND		
G37S	Ammonia as N, dissolved	mg/l																		
G37S	Ammonia as N, total	mg/l																		0.55
G37S	Arsenic, Dissolved	ug/l																ND		< 2.2
G37S	Arsenic, total	ug/l																		
G37S	Barium, total	ug/l																		
G37S	Barium, dissolved	ug/l																50		
G37S	Boron, Dissolved	ug/l																ND		< 110
G37S	Boron, total	ug/l																		
G37S	Chloride, Dissolved	mg/l																		

Table 4
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ parameters prior to 1997

Well	Parameter	Units	4thQtr84	1stQtr85	1stQtr88	2ndQtr88	3rdQtr88	1stQtr90	2ndQtr90	1stQtr92	3rdQtr93	4thQtr93	1stQtr94	2ndQtr94	3rdQtr94	4thQtr94	1stQtr95	2ndQtr95	2ndQtr96	4thQtr96
G37S	Chloride, total	mg/l																41		14
G37S	Ethylbenzene	ug/l																ND		
G37S	Fluoride, total	mg/l																		
G37S	Nitrate as N, dissolved	mg/l																		
G37S	Nitrate as N, total	mg/l																1.58		6.98
G37S	Potassium, total	mg/l																		
G37S	Sodium, total	mg/l																8.09		
G37S	Tetrahydrofuran	ug/l																		
G38S	1,2,3-Trichlorobenzene	ug/l																		
G38S	1,2,4-Trichlorobenzene	ug/l																		
G38S	1,4-Dichlorobenzene	ug/l																		
G38S	Ammonia as N, dissolved	mg/l																		
G38S	Ammonia as N, total	mg/l																		104
G38S	Arsenic, Dissolved	ug/l																		4.5
G38S	Arsenic, total	ug/l																		
G38S	Barium, total	ug/l																		
G38S	Boron, Dissolved	ug/l																		400
G38S	Boron, total	ug/l																		
G38S	Chloride, Dissolved	mg/l																		
G38S	Chloride, total	mg/l																		280
G38S	Ethylbenzene	ug/l																		
G38S	Fluoride, total	mg/l																		
G38S	Nitrate as N, dissolved	mg/l																		
G38S	Nitrate as N, total	mg/l																		0.16
G38S	Potassium, total	mg/l																		
G38S	Sodium, total	mg/l																		
G38S	Tetrahydrofuran	ug/l																		
G39S	1,2,3-Trichlorobenzene	ug/l																		
G39S	1,2,4-Trichlorobenzene	ug/l																		
G39S	1,4-Dichlorobenzene	ug/l																		
G39S	Ammonia as N, dissolved	mg/l																		
G39S	Ammonia as N, total	mg/l																		0.69
G39S	Arsenic, Dissolved	ug/l																		2.3
G39S	Arsenic, total	ug/l																		
G39S	Barium, total	ug/l																		
G39S	Boron, Dissolved	ug/l																		< 110
G39S	Boron, total	ug/l																		
G39S	Chloride, Dissolved	mg/l																		
G39S	Chloride, total	mg/l																		93
G39S	Ethylbenzene	ug/l																		
G39S	Fluoride, total	mg/l																		
G39S	Nitrate as N, dissolved	mg/l																		< 0.1
G39S	Nitrate as N, total	mg/l																		
G39S	Potassium, total	mg/l																		
G39S	Sodium, total	mg/l																		
G39S	Tetrahydrofuran	ug/l																		
G40S	1,2,3-Trichlorobenzene	ug/l																		
G40S	1,2,4-Trichlorobenzene	ug/l																		
G40S	1,4-Dichlorobenzene	ug/l																		
G40S	Ammonia as N, dissolved	mg/l																		
G40S	Ammonia as N, total	mg/l																		7
G40S	Arsenic, Dissolved	ug/l																		< 2.2
G40S	Arsenic, total	ug/l																		
G40S	Barium, total	ug/l																		
G40S	Boron, Dissolved	ug/l																		< 110
G40S	Boron, total	ug/l																		

Table 4
Winnebago Reclamation Service, Inc.
Analytical Results for GMZ parameters prior to 1997

Well	Parameter	Units	4thQtr84	1stQtr85	1stQtr88	2ndQtr88	3rdQtr88	1stQtr90	2ndQtr90	1stQtr92	3rdQtr93	4thQtr93	1stQtr94	2ndQtr94	3rdQtr94	4thQtr94	1stQtr95	2ndQtr95	2ndQtr96	4thQtr96
G40S	Chloride, Dissolved	mg/l																		
G40S	Chloride, total	mg/l																		96
G40S	Ethylbenzene	ug/l																		
G40S	Fluoride, total	mg/l																		
G40S	Nitrate as N, dissolved	mg/l																		
G40S	Nitrate as N, total	mg/l																		2.67
G40S	Potassium, total	mg/l																		
G40S	Sodium, total	mg/l																		
G40S	Tetrahydrofuran	ug/l																		
G41D	1,2,3-Trichlorobenzene	ug/l																ND		
G41D	1,2,4-Trichlorobenzene	ug/l																ND		
G41D	1,4-Dichlorobenzene	ug/l																ND		
G41D	Ammonia as N, dissolved	mg/l																		
G41D	Ammonia as N, total	mg/l																		59
G41D	Arsenic, Dissolved	ug/l																ND		< 2.2
G41D	Arsenic, total	ug/l																		
G41D	Barium, total	ug/l																		
G41D	Barium, dissolved	ug/l																60		
G41D	Boron, Dissolved	ug/l																ND		280
G41D	Boron, total	ug/l																		
G41D	Chloride, Dissolved	mg/l																		
G41D	Chloride, total	mg/l																ND		190
G41D	Ethylbenzene	ug/l																ND		
G41D	Fluoride, total	mg/l																		
G41D	Nitrate as N, dissolved	mg/l																		
G41D	Nitrate as N, total	mg/l																6.28		0.52
G41D	Potassium, total	mg/l																		
G41D	Sodium, total	mg/l																5.07		
G41D	Tetrahydrofuran	ug/l																		
R42S	1,2,3-Trichlorobenzene	ug/l																		
R42S	1,2,4-Trichlorobenzene	ug/l				ND						ND	ND							
R42S	1,4-Dichlorobenzene	ug/l				4.5	3.1	ND	ND			ND	ND					ND		
R42S	Ammonia as N, dissolved	mg/l																		
R42S	Ammonia as N, total	mg/l																1		1.5
R42S	Arsenic, Dissolved	ug/l				19	40					45	25.1					40		92
R42S	Arsenic, total	ug/l																		
R42S	Barium, total	ug/l																		
R42S	Barium, dissolved	ug/l				298	366					407	347					360		
R42S	Boron, Dissolved	ug/l																ND		< 110
R42S	Boron, total	ug/l																		
R42S	Chloride, Dissolved	mg/l																		
R42S	Chloride, total	mg/l				40	48	178	191			35	38					110		200
R42S	Ethylbenzene	ug/l				2.1	0.3	ND	ND			ND	ND					ND		
R42S	Fluoride, total	mg/l																		
R42S	Nitrate as N, dissolved	mg/l																		
R42S	Nitrate as N, total	mg/l				ND	ND	ND	ND									12.7		< 0.1
R42S	Potassium, total	mg/l																		
R42S	Sodium, total	mg/l				ND	ND					21.3	20.5					16.6		
R42S	Tetrahydrofuran	ug/l																		

Table 5
Winnebago Reclamation Service, Inc.
Analytical Results for New Piezometers

Well	Parameter	Units	AGQS	3/22/2004	4/22/2004
MW-12-03	1,2,3-Trichlorobenzene	ug/l	5	< 1	< 1
MW-12-03	1,2,4-Trichlorobenzene	ug/l	5	< 1	< 1
MW-12-03	1,4-Dichlorobenzene	ug/l	5	< 1	< 1
MW-12-03	Arsenic	ug/l	10	10	
MW-12-03	Arsenic, Dissolved	ug/l	2	< 1	< 1
MW-12-03	Barium	ug/l	225180.6	120	
MW-12-03	Boron	ug/l	200	< 10	
MW-12-03	Boron, Dissolved	ug/l	98	11	23
MW-12-03	Chloride	mg/l	87.51	15	
MW-12-03	Chloride, Dissolved	mg/l	87.51	19	8.5
MW-12-03	Ethylbenzene	ug/l	5	< 1	< 1
MW-12-03	Fluoride	mg/l	273.35	< 0.25	
MW-12-03	Nitrate as N	mg/l	11.74	2.4	
MW-12-03	Nitrate as N, Diss.	mg/l	11.74	2.3	1.7
MW-12-03	Nitrogen, Ammonia as N	mg/l	900	< 0.05	1.1
MW-12-03	Nitrogen, Ammonia as N, Diss.	mg/l	0.9	< 0.05	< 0.05
MW-12-03	Potassium	mg/l	29.01	4.2	
MW-12-03	Sodium	mg/l	164.79	4.5	
MW-12-03	Tetrahydrofuran	ug/l	42	< 5	< 5
MW-14-03	1,2,3-Trichlorobenzene	ug/l	5	< 1	< 1
MW-14-03	1,2,4-Trichlorobenzene	ug/l	5	< 1	< 1
MW-14-03	1,4-Dichlorobenzene	ug/l	5	< 1	< 1
MW-14-03	Arsenic	ug/l	10	2.6	< 1
MW-14-03	Arsenic, Dissolved	ug/l	2	< 1	< 1
MW-14-03	Barium	ug/l	225180.6	71	31
MW-14-03	Boron	ug/l	200	12	17
MW-14-03	Boron, Dissolved	ug/l	98	12	20
MW-14-03	Chloride	mg/l	87.51	23	25
MW-14-03	Chloride, Dissolved	mg/l	87.51	10	25
MW-14-03	Ethylbenzene	ug/l	5	< 1	< 1
MW-14-03	Fluoride	mg/l	273.35	< 0.25	< 0.25
MW-14-03	Nitrate as N	mg/l	11.74	9.1	9.4
MW-14-03	Nitrate as N, Diss.	mg/l	11.74	6.2	9.7
MW-14-03	Nitrogen, Ammonia as N	mg/l	900	< 0.05	< 0.05
MW-14-03	Nitrogen, Ammonia as N, Diss.	mg/l	0.9	< 0.05	< 0.05
MW-14-03	Potassium	mg/l	29.01	0.98	1.2
MW-14-03	Sodium	mg/l	164.79	9.9	9
MW-14-03	Tetrahydrofuran	ug/l	42	< 5	< 5
MW-16S-04	1,2,3-Trichlorobenzene	ug/l	5	< 1	< 1
MW-16S-04	1,2,4-Trichlorobenzene	ug/l	5	< 1	< 1
MW-16S-04	1,4-Dichlorobenzene	ug/l	5	< 1	< 1
MW-16S-04	Arsenic	ug/l	10	< 1	31
MW-16S-04	Arsenic, Dissolved	ug/l	2	< 1	< 1
MW-16S-04	Barium	ug/l	225180.6	33	370
MW-16S-04	Boron	ug/l	200	22	150
MW-16S-04	Boron, Dissolved	ug/l	98	24	31
MW-16S-04	Chloride	mg/l	87.51	3.1	19
MW-16S-04	Chloride, Dissolved	mg/l	87.51	3.1	18
MW-16S-04	Ethylbenzene	ug/l	5	< 1	< 1
MW-16S-04	Fluoride	mg/l	273.35	< 0.25	< 0.25
MW-16S-04	Nitrate as N	mg/l	11.74	0.8	12
MW-16S-04	Nitrate as N, Diss.	mg/l	11.74	0.8	12
MW-16S-04	Nitrogen, Ammonia as N	mg/l	900	< 0.05	< 0.05
MW-16S-04	Nitrogen, Ammonia as N, Diss.	mg/l	0.9	< 0.05	< 0.05
MW-16S-04	Potassium	mg/l	29.01	1.8	29
MW-16S-04	Sodium	mg/l	164.79	8.6	6.5
MW-16S-04	Tetrahydrofuran	ug/l	42	< 5	< 5

Note: Highlighed cells indicate exceedence of AGQS.

Table 5
Winnebago Reclamation Service, Inc.
Analytical Results for New Piezometers

Well	Parameter	Units	AGQS	3/22/2004	4/22/2004
MW-21-04	1,2,3-Trichlorobenzene	ug/l	5	< 1	< 1
MW-21-04	1,2,4-Trichlorobenzene	ug/l	5	< 1	< 1
MW-21-04	1,4-Dichlorobenzene	ug/l	5	< 1	< 1
MW-21-04	Arsenic	ug/l	10	1.4	53
MW-21-04	Arsenic, Dissolved	ug/l	2	1.5	1.5
MW-21-04	Barium	ug/l	225180.6	60	390
MW-21-04	Boron	ug/l	200	22	130
MW-21-04	Boron, Dissolved	ug/l	98	17	34
MW-21-04	Chloride	mg/l	87.51	5.6	6
MW-21-04	Chloride, Dissolved	mg/l	87.51	5.8	6.2
MW-21-04	Ethylbenzene	ug/l	5	< 1	< 1
MW-21-04	Fluoride	mg/l	273.35	< 0.25	< 0.25
MW-21-04	Nitrate as N	mg/l	11.74	< 0.02	< 0.02
MW-21-04	Nitrate as N, Diss.	mg/l	11.74	< 0.02	< 0.02
MW-21-04	Nitrogen, Ammonia as N	mg/l	900	< 0.05	< 0.05
MW-21-04	Nitrogen, Ammonia as N, Diss.	mg/l	0.9	< 0.05	< 0.05
MW-21-04	Potassium	mg/l	29.01	0.91	23
MW-21-04	Sodium	mg/l	164.79	5.3	6.9
MW-21-04	Tetrahydrofuran	ug/l	42	< 5	< 5
MW-24-04	1,2,3-Trichlorobenzene	ug/l	5	< 1	< 1
MW-24-04	1,2,4-Trichlorobenzene	ug/l	5	< 1	< 1
MW-24-04	1,4-Dichlorobenzene	ug/l	5	< 1	< 1
MW-24-04	Arsenic	ug/l	10	< 1	2.6
MW-24-04	Arsenic, Dissolved	ug/l	2	< 1	< 1
MW-24-04	Barium	ug/l	225180.6	59	83
MW-24-04	Boron	ug/l	200	22	32
MW-24-04	Boron, Dissolved	ug/l	98	17	29
MW-24-04	Chloride	mg/l	87.51	9.2	9.9
MW-24-04	Chloride, Dissolved	mg/l	87.51	7.8	11
MW-24-04	Ethylbenzene	ug/l	5	< 1	< 1
MW-24-04	Fluoride	mg/l	273.35	< 0.25	< 0.25
MW-24-04	Nitrate as N	mg/l	11.74	5.2	6.1
MW-24-04	Nitrate as N, Diss.	mg/l	11.74	5.7	6
MW-24-04	Nitrogen, Ammonia as N	mg/l	900	< 0.05	< 0.05
MW-24-04	Nitrogen, Ammonia as N, Diss.	mg/l	0.9	< 0.05	< 0.05
MW-24-04	Potassium	mg/l	29.01	2	4
MW-24-04	Sodium	mg/l	164.79	3.7	3.9
MW-24-04	Tetrahydrofuran	ug/l	42	< 5	< 5
MW-3S-03	1,2,3-Trichlorobenzene	ug/l	5	< 1	< 1
MW-3S-03	1,2,4-Trichlorobenzene	ug/l	5	< 1	< 1
MW-3S-03	1,4-Dichlorobenzene	ug/l	5	< 1	< 1
MW-3S-03	Arsenic	ug/l	10	15	12
MW-3S-03	Arsenic, Dissolved	ug/l	2	< 1	< 1
MW-3S-03	Barium	ug/l	225180.6	210	120
MW-3S-03	Boron	ug/l	200	63	110
MW-3S-03	Boron, Dissolved	ug/l	98	24	75
MW-3S-03	Chloride	mg/l	87.51	28	26
MW-3S-03	Chloride, Dissolved	mg/l	87.51	28	26
MW-3S-03	Ethylbenzene	ug/l	5	< 1	< 1
MW-3S-03	Fluoride	mg/l	273.35	< 0.25	< 0.25
MW-3S-03	Nitrate as N	mg/l	11.74	11	11
MW-3S-03	Nitrate as N, Diss.	mg/l	11.74	11	10
MW-3S-03	Nitrogen, Ammonia as N	mg/l	900	< 0.05	< 0.05
MW-3S-03	Nitrogen, Ammonia as N, Diss.	mg/l	0.9	< 0.05	< 0.05
MW-3S-03	Potassium	mg/l	29.01	11	6.7
MW-3S-03	Sodium	mg/l	164.79	9.5	8.2
MW-3S-03	Tetrahydrofuran	ug/l	42	< 5	< 5

Note: Highlighed cells indicate exceedence of AGQS.

Table 5
Winnebago Reclamation Service, Inc.
Analytical Results for New Piezometers

Well	Parameter	Units	AGQS	3/22/2004	4/22/2004
MW-4S-03	1,2,3-Trichlorobenzene	ug/l	5	< 1	< 1
MW-4S-03	1,2,4-Trichlorobenzene	ug/l	5	< 1	< 1
MW-4S-03	1,4-Dichlorobenzene	ug/l	5	< 1	< 1
MW-4S-03	Arsenic	ug/l	10	20	6.5
MW-4S-03	Arsenic, Dissolved	ug/l	2	< 1	< 1
MW-4S-03	Barium	ug/l	225180.6	180	180
MW-4S-03	Boron	ug/l	200	42	24
MW-4S-03	Boron, Dissolved	ug/l	98	< 10	29
MW-4S-03	Chloride	mg/l	87.51	20	16
MW-4S-03	Chloride, Dissolved	mg/l	87.51	16	15
MW-4S-03	Ethylbenzene	ug/l	5	< 1	< 1
MW-4S-03	Fluoride	mg/l	273.35	< 0.25	< 0.25
MW-4S-03	Nitrate as N	mg/l	11.74	13	11
MW-4S-03	Nitrate as N, Diss.	mg/l	11.74	11	11
MW-4S-03	Nitrogen, Ammonia as N	mg/l	900	< 0.05	< 0.05
MW-4S-03	Nitrogen, Ammonia as N, Diss.	mg/l	0.9	< 0.05	< 0.05
MW-4S-03	Potassium	mg/l	29.01	8	3.3
MW-4S-03	Sodium	mg/l	164.79	4.3	4.3
MW-4S-03	Tetrahydrofuran	ug/l	42	< 5	< 5
MW-5S-03	1,2,3-Trichlorobenzene	ug/l	5	< 1	< 1
MW-5S-03	1,2,4-Trichlorobenzene	ug/l	5	< 1	< 1
MW-5S-03	1,4-Dichlorobenzene	ug/l	5	< 1	< 1
MW-5S-03	Arsenic	ug/l	10	290	38
MW-5S-03	Arsenic, Dissolved	ug/l	2	< 1	< 1
MW-5S-03	Barium	ug/l	225180.6	1500	250
MW-5S-03	Boron	ug/l	200	140	78
MW-5S-03	Boron, Dissolved	ug/l	98	16	28
MW-5S-03	Chloride	mg/l	87.51	57	62
MW-5S-03	Chloride, Dissolved	mg/l	87.51	62	62
MW-5S-03	Ethylbenzene	ug/l	5	< 1	< 1
MW-5S-03	Fluoride	mg/l	273.35	< 0.25	< 0.25
MW-5S-03	Nitrate as N	mg/l	11.74	9.6	10
MW-5S-03	Nitrate as N, Diss.	mg/l	11.74	9.4	10
MW-5S-03	Nitrogen, Ammonia as N	mg/l	900	< 0.05	2.3
MW-5S-03	Nitrogen, Ammonia as N, Diss.	mg/l	0.9	< 0.05	< 0.05
MW-5S-03	Potassium	mg/l	29.01	53	16
MW-5S-03	Sodium	mg/l	164.79	24	25
MW-5S-03	Tetrahydrofuran	ug/l	42	< 5	< 5
MW-7S-03	1,2,3-Trichlorobenzene	ug/l	5	< 1	< 1
MW-7S-03	1,2,4-Trichlorobenzene	ug/l	5	< 1	< 1
MW-7S-03	1,4-Dichlorobenzene	ug/l	5	< 1	< 1
MW-7S-03	Arsenic	ug/l	10	< 1	2.6
MW-7S-03	Arsenic, Dissolved	ug/l	2	< 1	1.2
MW-7S-03	Barium	ug/l	225180.6	44	54
MW-7S-03	Boron	ug/l	200	25	26
MW-7S-03	Boron, Dissolved	ug/l	98	16	31
MW-7S-03	Chloride	mg/l	87.51	22	22
MW-7S-03	Chloride, Dissolved	mg/l	87.51	21	23
MW-7S-03	Ethylbenzene	ug/l	5	< 1	< 1
MW-7S-03	Fluoride	mg/l	273.35	< 0.25	< 0.25
MW-7S-03	Nitrate as N	mg/l	11.74	7.8	8.4
MW-7S-03	Nitrate as N, Diss.	mg/l	11.74	7.4	8.6
MW-7S-03	Nitrogen, Ammonia as N	mg/l	900	< 0.05	< 0.05
MW-7S-03	Nitrogen, Ammonia as N, Diss.	mg/l	0.9	< 0.05	< 0.05
MW-7S-03	Potassium	mg/l	29.01	1.7	2.4
MW-7S-03	Sodium	mg/l	164.79	7.6	11
MW-7S-03	Tetrahydrofuran	ug/l	42	< 5	< 5

Note: Highlighed cells indicate exceedence of AGQS.

APPENDICES

APPENDIX A

LPC-PA1 AND LPC-PA16 FORMS

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601

ROD R. BLAGOJEVICH, GOVERNOR RENEE CIPRIANO, DIRECTOR

General Application for Permit (LPC-PA1)

This form must be used for any application for permit, except for landscape waste composting or hazardous waste management facilities regulated in accordance with RCRA, Subtitle C from the Bureau of Land. One original and two (2) photocopies, or three (3) if applicable, of all permit application forms must be submitted. Attach the original and appropriate number of copies of any necessary plans, specifications, reports, etc. to fully support and describe the activities or modifications being proposed. Attach sufficient information to demonstrate compliance with all applicable regulatory requirements. Incomplete applications will be rejected. Please refer to the instructions for further guidance.

Note: Permit applications which are hand-delivered to the Bureau of Land, Permit Section must be delivered to 1021 North Grand Avenue East between the hours of 8:30 a.m. to 5:00 p.m., Monday through Friday (excluding State holidays).

Please type or print legibly.

I. SITE IDENTIFICATION

Name: Winnebago Reclamation Service Site # (Illinois EPA): 2 0 1 8 0 8 0 0 0 1

Physical Site Location (street, road, etc.): 8403 Lindenwood Road

City, Zip Code: Rockford, 61109 County: Winnebago

Existing DE/OP Permit Nos. (if applicable): 1991-138-LF

II. OWNER/OPERATOR IDENTIFICATION

	OWNER	OPERATOR
Name:	Winnebago Reclamation Service, Inc.	Winnebago Reclamation Service, Inc.
Address:	4920 Forest Hills Road Loves Park, IL 61111	4920 Forest Hills Road Loves Park, IL 61111
Contact Name:	Tom Hilbert	Tom Hilbert
Phone #:	(815) 381-5646	(815) 381-5646

III. PERMIT APPLICATION IDENTIFICATION

TYPE SUBMISSION/REVIEW PERIOD:
- _ New Landfill/180 days (35 IAC Part 813)
- _ Landfill Expansion/180 days (35 IAC Part 813)
- _ Sign. Mod to Operate/90 days (35 IAC Part 813)
- X Other Sign. Mod/90 days (35 IAC Part 813)
- _ Renewal of Landfill 90 days (35 IAC Part 813)
- _ Developmental/90 days (35 IAC Part 807)
- _ Operating/45 days (35 IAC Part 807)
- _ Supplemental/90 days (35 IAC Part 807)
- _ Permit Transfer/90 days (35 IAC Part 807)
- _ Renewal of Experimental Permit (35 IAC Part 807)

TYPE FACILITY:
- X Landfill
- _ Land Treatment
- _ Transfer Station
- _ Treatment
- _ Storage
- _ Incinerator
- _ Composting
- _ Recycling/Reclamation
- _ Other (Specify)

TYPE WASTE:
- X General Municipal Refuse
- _ Hazardous
- X Special (Non-hazardous)
- _ Chemical Only (exc. putrescible)
- _ Inert Only (exc. chemical and putrescible)
- _ Used Oil
- _ Potentially Infectious Medical Waste
- _ Landscape Waste
- _ Other (Specify)

DESCRIPTION OF THIS PERMIT REQUEST: (Include a brief narrative description here.)

Significant modification for groundwater management zone evaluation.

IL 532-1887
LPC 350 Rev. 2/03

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center

IV. COMPLETENESS REQUIREMENTS

The following items must be checked Yes, No or N/A. Each item will be reviewed by the log clerk. Blank items will result in rejection of the application. Please refer to the instructions for further guidance.

1 Have all required public notice letters been mailed in accordance with the LPC-PA16 instructions? (If so, provide a list of those recipients of the required public notice letters for Illinois EPA retention.) Such retention shall not imply any Illinois EPA review and/or confirmation of the list.) — x Yes __ No __ N/A

2 a. Is the Siting Certification Form (LPC-PA8) completed and enclosed? — __ Yes __ No x N/A

b Is siting approval currently under litigation? __ Yes x No __ N/A

3 a. Is a closure, and if necessary a post closure, plan covering these activities being submitted, or — __ Yes x No __ N/A

b has one already been approved? (Provide permit number 1991-138-LF.) — x Yes __ No __ N/A

4 a. For waste disposal sites only: Has any employee, owner, operator, officer or director of the owner or operator had a prior conduct certification denied, canceled or revoked? — __ Yes x No __ N/A

b. Have you included a demonstration of how you comply or intend to comply with 35 Ill. Adm. Code Part 745? — __ Yes __ No x N/A

5 a. Is land ownership held in beneficial trust? — __ Yes x No __ N/A

b If yes, is a beneficial trust certification form (LPC-PA9) completed and enclosed? — __ Yes __ No x N/A

6. a. Does the application contain information or proposals regarding the hydrogeology; groundwater monitoring, modeling or classification; a groundwater impact assessment; or vadose zone monitoring for which you are requesting approval? — x Yes __ No __ N/A

b. If yes, have you submitted a third (3rd) copy of the application (4 total) and supporting documents? — x Yes

V. SIGNATURES (Original signatures required. Signature stamps or applications transmitted electronically or by facsimile are not acceptable.)

All applications shall be signed by the person designated below as a duly authorized representative of the owner and/or operator.
Corporation - By a principal executive officer of at least the level of vice-president.
Partnership or Sole Proprietorship - By a general partner or the proprietor, respectively.
Government - By either a principal executive officer or a ranking elected official.

A person is a duly authorized representative of the owner and operator only if:
1. They meet the criteria above or the authorization has been granted in writing by a person described above; and
2. is submitted with this application (a copy of a previously submitted authorization can be used).

I hereby affirm that all information contained in this Application is true and accurate to the best of my knowledge and belief.

I do herein swear that I am a duly authorized representative of owner/operator and I am authorized to sign this permit application form.

Owner Signature: [signature] Title: V. P. Date: 7-6-2004
Owner FEIN or S.S. Number: 36-2917437

Operator Signature: [signature] Title: V. P. Date: 7-6-2004
Operator FEIN or S.S. Number: 36-2917437

Notary: Subscribe and sworn before me this 6th day of July, 2004
Notary Signature: Debra A Jackson Notary Seal:
My commission expires on: 5-17-08

OFFICIAL SEAL
DEBRA A JACKSON
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES:05/17/08

Engineer Signature: Sean C. Clusch Title: Project Engineer Date: 7/15/2004
Engineer Address: Andrews Environmental Engineering, Inc.
3535 Mayflower Boulevard
Springfield, Illinois 62707

Engineer Seal: SEAL 062-053724 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

Expires 11/30/2005

Engineer Phone No. 217, 787-2334

All information submitted as part of the Application is available to the public except those specifically designated by the Applicant to be treated confidentially as a trade secret or secret process in accordance with Section 7(a) of the Environmental Protection Act and applicable Rules and Regulations of the Illinois Pollution Control Board and applicable Illinois EPA rules and guidelines.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601

ROD R. BLAGOJEVICH, GOVERNOR RENEE CIPRIANO, DIRECTOR

Honorable Dave Syverson
Senate District 34
200 South Wyman St.
Suite 302
Rockford, IL 61101

NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

Date: JUL 15 2004

To Elected Officials and Concerned Citizens:

The purpose of this notice is to inform you that a permit application has been submitted to the IEPA, Bureau of Land, for a solid waste project described below. You are not obligated to respond to this notice, however, if you have any comments, please submit them in writing to the address below, or call the Permit Section at 217/524-3300, within twenty-one (21) days.

Illinois Environmental Protection Agency
Bureau of Land, Permit Section (#33)
1021 North Grand Avenue East, Post Office Box 19276
Springfield, Illinois 62794-9276

The permit application, which is identified below, is for a project described at the bottom of this page.

SITE IDENTIFICATION

Site Name: Winnebago Reclamation Service, Inc. Site # (IEPA): 2018080001

Address: 8403 Lindenwood Road

City: Rockford, IL 61109 County: Winnebago

TYPE PERMIT SUBMISSIONS:		TYPE FACILITY:		TYPE WASTE:	
New Landfill		Landfill	X	General Municipal Refuse	X
Landfill Expansion		Land Treatment		Hazardous	
First Significant Modification		Transfer Station		Special (Non-Hazardous)	X
Significant Modification to Operate		Treatment Facility		Chemical Only (exec. putrescible)	
Other Significant Modification	X	Storage		Inert Only (exec. chem. & putrescible)	
Renewal of Landfill		Incinerator		Used Oil	
Development		Composting		Solvents	
Operating		Recycling/Reclamation		Landscape/Yard Waste	
Supplemental		Other		Other (Specify _____)	
Transfer					
Name Change					
Generic					

DESCRIPTION OF PROJECT:
Significant modification addressing permit condition VIII.22 Permit Modification No. 24.

Please retain a copy for your own use.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

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IL 532 0334
LPC 040 Rev Feb. 03

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601

ROD R. BLAGOJEVICH, GOVERNOR RENEE CIPRIANO, DIRECTOR

The Honorable Dave Winters
Representative District 68
3444 N. Main Street
Suite 80
Rockford, IL 61103

NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

Date: JUL 15 2004

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City: Rockford, IL 61109 County: Winnebago

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New Landfill		Landfill	X	General Municipal Refuse	X
Landfill Expansion		Land Treatment		Hazardous	
First Significant Modification		Transfer Station		Special (Non-Hazardous)	X
Significant Modification to Operate		Treatment Facility		Chemical Only (exec. putrescible)	
Other Significant Modification	X	Storage		Inert Only (exec. chem. & putrescible)	
Renewal of Landfill		Incinerator		Used Oil	
Development		Composting		Solvents	
Operating		Recycling/Reclamation		Landscape/Yard Waste	
Supplemental		Other		Other (Specify _____)	
Transfer					
Name Change					
Generic					

DESCRIPTION OF PROJECT:

Significant modification addressing permit condition VIII.22 Permit Modification No. 24.

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IL 532 0334
LPC 040 Rev Feb 03

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JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601

ROD R. BLAGOJEVICH, GOVERNOR RENEE CIPRIANO, DIRECTOR

Paul A. Logli
Winnebago County Administration Bldg.
404 Elm Street
Rockford, IL 61101

NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

Date: JUL 15 2004

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Bureau of Land, Permit Section (#33)
1021 North Grand Avenue East, Post Office Box 19276
Springfield, Illinois 62794-9276

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First Significant Modification		Transfer Station		Special (Non-Hazardous)	X
Significant Modification to Operate		Treatment Facility		Chemical Only (exec. putrescible)	
Other Significant Modification	X	Storage		Inert Only (exec. chem. & putrescible)	
Renewal of Landfill		Incinerator		Used Oil	
Development		Composting		Solvents	
Operating		Recycling/Reclamation		Landscape/Yard Waste	
Supplemental		Other		Other (Specify _____)	
Transfer					
Name Change					
Generic					

DESCRIPTION OF PROJECT:

Significant modification addressing permit condition VIII.22 Permit Modification No. 24.

Please retain a copy for your own use.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

IEPA 0279 Ip 300
IL 532 0334
LPC 040 Rev. Feb 03

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601

ROD R. BLAGOJEVICH, GOVERNOR RENEE CIPRIANO, DIRECTOR

Kristine Cohn
Winnebago County Administration Bldg.
404 Elm Street
Rockford, IL 61101

NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

Date: JUL 15 2004

To Elected Officials and Concerned Citizens:

The purpose of this notice is to inform you that a permit application has been submitted to the IEPA, Bureau of Land, for a solid waste project described below. You are not obligated to respond to this notice, however, if you have any comments, please submit them in writing to the address below, or call the Permit Section at 217/524-3300, within twenty-one (21) days.

Illinois Environmental Protection Agency
Bureau of Land, Permit Section (#33)
1021 North Grand Avenue East, Post Office Box 19276
Springfield, Illinois 62794-9276

The permit application, which is identified below, is for a project described at the bottom of this page.

SITE IDENTIFICATION

Site Name: Winnebago Reclamation Service, Inc. Site # (IEPA): 2018080001

Address: 8403 Linderwood Road

City: Rockford, IL 61109 County: Winnebago

TYPE PERMIT SUBMISSIONS:		TYPE FACILITY:		TYPE WASTE:	
New Landfill		Landfill	X	General Municipal Refuse	X
Landfill Expansion		Land Treatment		Hazardous	
First Significant Modification		Transfer Station		Special (Non-Hazardous)	X
Significant Modification to Operate		Treatment Facility		Chemical Only (exec. putrescible)	
Other Significant Modification	X	Storage		Inert Only (exec. chem. & putrescible)	
Renewal of Landfill		Incinerator		Used Oil	
Development		Composting		Solvents	
Operating		Recycling/Reclamation		Landscape/Yard Waste	
Supplemental		Other		Other (Specify _____)	
Transfer					
Name Change					
Generic					

DESCRIPTION OF PROJECT:
Significant modification addressing permit condition VIII.22 Permit Modification No. 24.

Please retain a copy for your own use.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. *This form has been approved* by the Forms Management Center.

IL 532-0234
LPC-PA16 Rev. Feb. 03

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST. P.O. BOX 19276. SPRINGFIELD, ILLINOIS 62794-9276
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601
ROD R. BLAGOJEVICH, GOVERNOR RENEE CIPRIANO, DIRECTOR

Sharon Baumgartner
Village Clerk
Village of New Millford
6771 11th Street
Rockford, IL 61109

NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

Date: JUL 15 2004

To Elected Officials and Concerned Citizens:

The purpose of this notice is to inform you that a permit application has been submitted to the IEPA, Bureau of Land, for a solid waste project described below. You are not obligated to respond to this notice, however, if you have any comments, please submit them in writing to the address below, or call the Permit Section at 217/524-3300, within twenty-one (21) days.

Illinois Environmental Protection Agency
Bureau of Land, Permit Section (#33)
1021 North Grand Avenue East, Post Office Box 19276
Springfield, Illinois 62794-9276

The permit application, which is identified below, is for a project described at the bottom of this page.

SITE IDENTIFICATION

Site Name: Winnebago Reclamation Service, Inc. Site # (IEPA): 2018080001

Address: 8403 Lindenwood Road

City: Rockford, IL 61109 County: Winnebago

TYPE PERMIT SUBMISSIONS:		TYPE FACILITY:		TYPE WASTE:	
New Landfill		Landfill	X	General Municipal Refuse	X
Landfill Expansion		Land Treatment		Hazardous	
First Significant Modification		Transfer Station		Special (Non-Hazardous)	X
Significant Modification to Operate		Treatment Facility		Chemical Only (exec. putrescible)	
Other Significant Modification	X	Storage		Inert Only (exec. chem. & putrescible)	
Renewal of Landfill		Incinerator		Used Oil	
Development		Composting		Solvents	
Operating		Recycling/Reclamation		Landscape/Yard Waste	
Supplemental		Other		Other (Specify _____)	
Transfer					
Name Change					
Generic					

DESCRIPTION OF PROJECT:

Significant modification addressing permit condition VIII.22 Permit Modification No. 24.

Please retain a copy for your own use.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

IL 532-0334
LPC-PA16 Rev. Feb 03

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276
JAMES R. THOMPSON CENTER, 100 WEST RANDOLPH, SUITE 11-300, CHICAGO, IL 60601

ROD R. BLAGOJEVICH, GOVERNOR RENEE CIPRIANO, DIRECTOR

NOTICE OF APPLICATION FOR PERMIT TO MANAGE WASTE (LPC-PA16)

Date: JUL 15 2004

To Elected Officials and Concerned Citizens:

The purpose of this notice is to inform you that a permit application has been submitted to the IEPA, Bureau of Land, for a solid waste project described below. You are not obligated to respond to this notice, however, if you have any comments, please submit them in writing to the address below, or call the Permit Section at 217/524-3300, within twenty-one (21) days.

Illinois Environmental Protection Agency
Bureau of Land, Permit Section (#33)
1021 North Grand Avenue East, Post Office Box 19276
Springfield, Illinois 62794-9276

The permit application, which is identified below, is for a project described at the bottom of this page.

SITE IDENTIFICATION

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Address: 8403 Lindenwood Road

City: Rockford, IL 61109 County: Winnebago

TYPE PERMIT SUBMISSIONS:		TYPE FACILITY:		TYPE WASTE:	
New Landfill		Landfill	X	General Municipal Refuse	X
Landfill Expansion		Land Treatment		Hazardous	
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Significant Modification to Operate		Treatment Facility		Chemical Only (exec. putrescible)	
Other Significant Modification	X	Storage		Inert Only (exec. chem. & putrescible)	
Renewal of Landfill		Incinerator		Used Oil	
Development		Composting		Solvents	
Operating		Recycling/Reclamation		Landscape/Yard Waste	
Supplemental		Other		Other (Specify _____)	
Transfer					
Name Change					
Generic					

DESCRIPTION OF PROJECT:

Significant modification addressing permit condition VIII.22 Permit Modification No. 24.

Please retain a copy for your own use.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

[illegible]
IL 532 0034
[illegible] Rev Feb 03

APPENDIX B

GROUNDWATER INVESTIGATIONS AND SUBMITTALS

Previous Investigations and Submittals

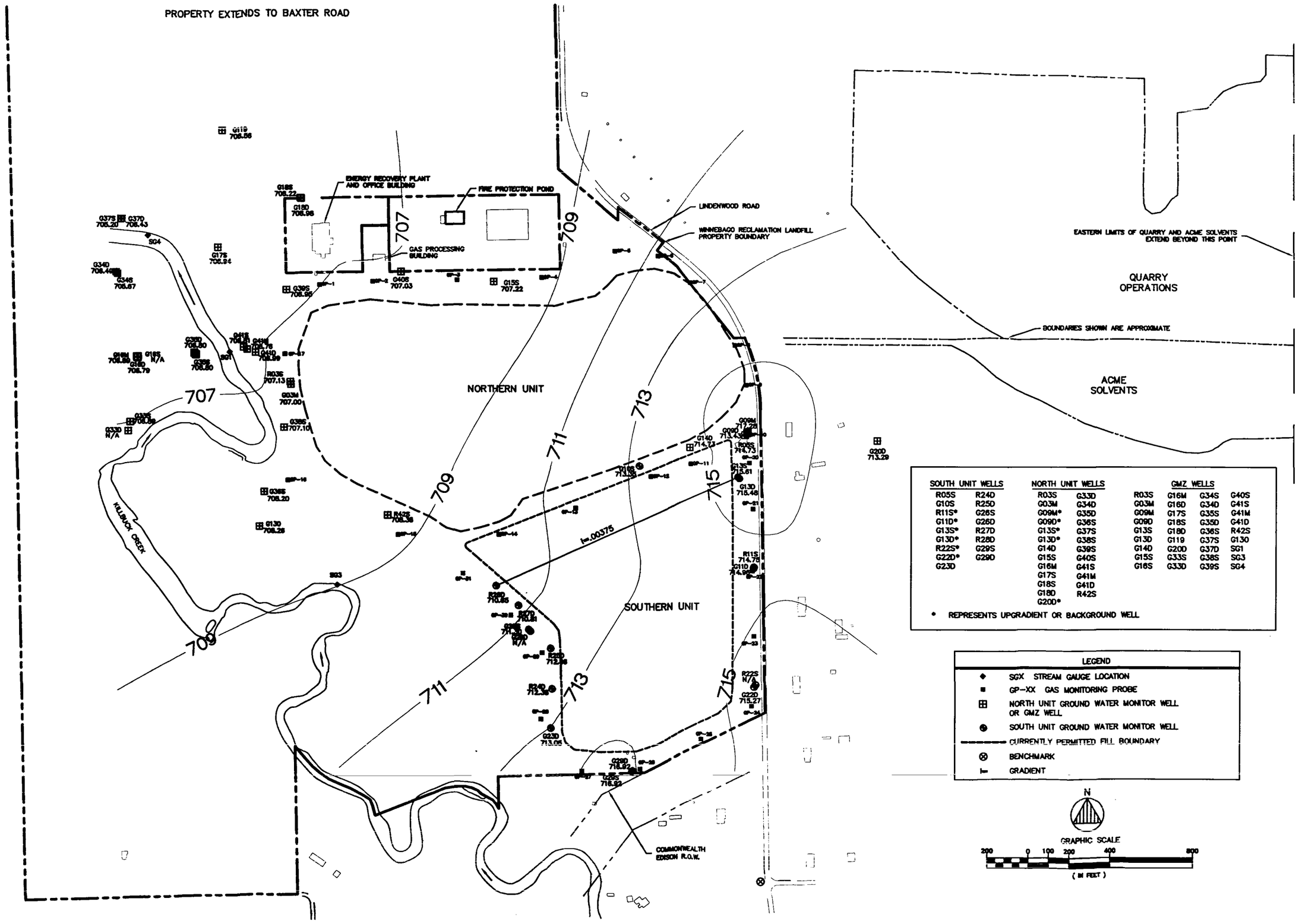
Pertaining to Hydrogeologic and Groundwater Quality Evaluations

1. March 1983 – Extent of Source of Groundwater Contamination – Acme Solvents Pagel's Pit Area Near Morristown, Illinois – Ecology and Environment.
2. September 1984 - Remedial Investigation, Acme Solvent Superfund Site, Winnebago County, Illinois, E.C. Jordan Company.
3. March 1985 – Supplemental Investigation, Winnebago Reclamation Landfill, Rockford, Illinois, Warzyn Engineering, Inc.
4. October 1989 – Interim Groundwater Quality Evaluation, Winnebago Reclamation Landfill, Rockford, Illinois, Warzyn, Inc.
5. June 1990 - Record of Decision, Pagel's Pit Site, Winnebago County, Illinois, US EPA.
6. March 1991 – Remedial Investigation, Winnebago Reclamation Landfill, Rockford, Illinois, Warzyn, Inc.
7. March 1991 – Feasibility Study, Winnebago Reclamation Landfill, Rockford, Illinois, Warzyn, Inc.
8. November 1991 – Work Plan, Southeast Corner Operable Unit, Winnebago Reclamation Landfill, Rockford, Illinois, Warzyn, Inc.
9. July 1992 – Phase I and IA Investigation Report, Southeast Corner Operable Unit, Winnebago Reclamation Landfill, Rockford, Illinois, Warzyn, Inc.
10. November 1992 – Consent Decree
11. September 1993 – by Warzyn, Inc.
    a) Remedial Design/Remedial Action Work Plan
    b) Remedial Design/Remedial Action Quality Assurance Project Plan
    c) Remedial Design/Remedial Action Health and Safety Plan
    d) Groundwater Remedial Design Work Plan
12. January 1994 – Technical Memorandum – Round 1 Pre-design Groundwater Sampling Results and Recommendations for Placement of New Monitoring Wells, Winnebago Reclamation Landfill (Pagel's Landfill), Rockford, Illinois, Warzyn, Inc.
13. May 1994 – Landfill Management, Closure and Monitoring Remedial Design Work Plan, Winnebago Reclamation Landfill Site (Pagel's Landfill), Wiinnebago County, Illinois, Winnebago Reclamation Service Inc.
14. June 1994 – Pumping Test Plan, Winnebago Reclamation Landfill, Rockford, Illinois, Warzyn, Inc.
15. April 1995 – Groundwater Remedial Alternative Analysis and Preliminary Design, Winnebago Reclamation Landfill, GeoTrans, Inc.
16. July 1995 – Application for Significant Modification to Permit for an Existing Unit, Winnebago Reclamation Service, Inc., Pagel Landfill Facility, Rockford, Winnebago County, Illinois, Andrews Environmental Engineering.

17. July 1995 – Application for Significant Modification to Permit, by GeoTrans, Inc.
    a) Report of Hydrogeological Investigation
    b) Groundwater Monitoring Plan
    c) Groundwater Impact Assessment
18. November 1995 – Groundwater Remedial Alternative Analysis and Preliminary Design, Winnebago Reclamation Landfill, GeoTrans, Inc.
19. May 1997 – Groundwater Monitoring to Evaluate Effectiveness of Source Reduction and Natural Attenuation Remedial Measures, Winnebago Reclamation Landfill, GeoTrans, Inc.
20. 1998 – Annual Groundwater Monitoring Review to Evaluate Effectiveness of Source Reduction and Natural Attenuation Remedial Measures, by HSI GeoTrans, Inc.
21. 1989 – Groundwater Summary Report to Evaluate Effectiveness of Source Reduction and Natural Attenuation Remedial Measures, by HSI GeoTrans, Inc.
22. July 2002 – Performance Assessment of Remedial Measures, submitted to USEPA, by Andrews Environmental Engineering, Inc.
23. September 2002 – First Five-Year Review Report for Pagel's Pit Superfund Site Rockford, Winnebago County, Illinois, by USEPA Region 5.
24. December 2002 – Significant Modification Permit Application Renewal, by Feezor Engineering, Inc. and Andrews Environmental Engineering, Inc.
25. June 2003 – Pagel Landfill South Unit Expansion Significant Modification Permit Application, by Feezor Engineering, Inc. and Andrews Environmental Engineering, Inc.

APPENDIX C

POTENTIOMETRIC SURFACE MAPS



SOUTH UNIT WELLS	
R05S	R24D
G10S	R25D
R11S*	G26S
G11D*	G26D
G13S*	R27D
G13D*	R28D
R22S*	G29S
G22D*	G29D
G23D	

NORTH UNIT WELLS	
R03S	G33D
G03M	G34D
G09M*	G35D
G09D*	G36S
G13S*	G37S
G13D*	G38S
G14D	G39S
G15S	G40S
G16M	G41S
G17S	G41M
G18S	G41D
G18D	R42S
G20D*	

GMZ WELLS			
R03S	G16M	G34S	G40S
G03M	G16D	G34D	G41S
G09M	G17S	G35S	G41M
G09D	G18S	G35D	G41D
G13S	G18D	G36S	R42S
G13D	G119	G37S	G130
G14D	G20D	G37D	SG1
G15S	G33S	G38S	SG3
G16S	G33D	G39S	SG4

* REPRESENTS UPGRADIENT OR BACKGROUND WELL

LEGEND	
◆	SGX STREAM GAUGE LOCATION
■	GP-XX GAS MONITORING PROBE
⊞	NORTH UNIT GROUND WATER MONITOR WELL OR GMZ WELL
⊕	SOUTH UNIT GROUND WATER MONITOR WELL
———	CURRENTLY PERMITTED FILL BOUNDARY
⊗	BENCHMARK
⊢	GRADIENT

REVISIONS			
NO.	DATE	DESCRIPTION	BY

ANDREWS ENVIRONMENTAL ENGINEERING INC.
3535 Mayflower Blvd., Springfield, IL 62707
Tel (217) 787-2334 Fax (217) 787-9465
Pontiac, IL • Warrenville, IL • Indianapolis, IN

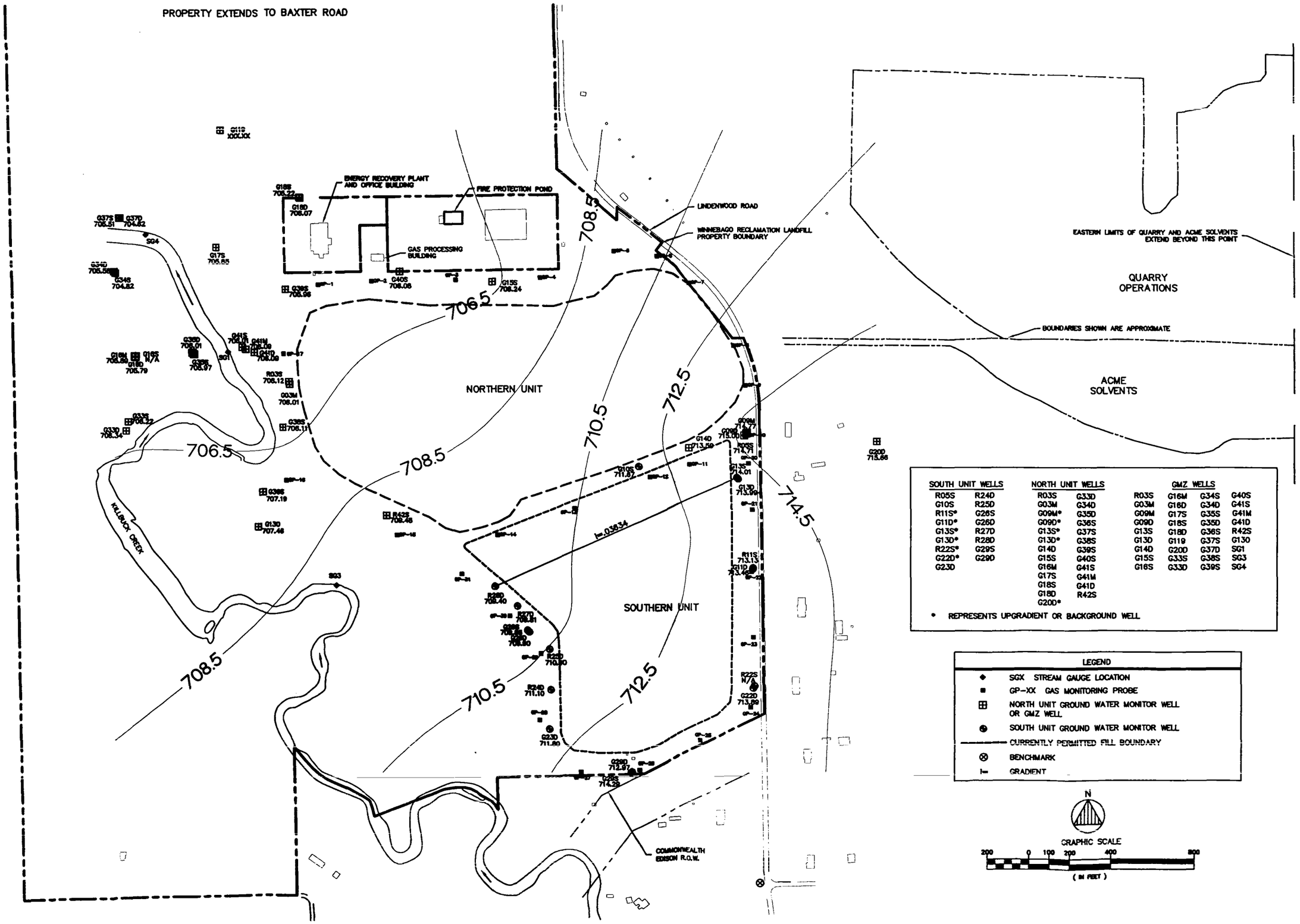
APPROVED BY: SRH
DRAWN BY: LJE
DESIGNED BY: SRH

POTENTIOMETRIC SURFACE MAP – 2ND QUARTER 2004

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004
PROJECT #: 90-114
FILE:
SHEET NUMBER: 1

©2004 Andrews Environmental Engineering Inc.



SOUTH UNIT WELLS	
R05S	R24D
G10S	R25D
R11S*	G26S
G11D*	G26D
G13S*	R27D
G13D*	R28D
R22S*	G29S
G22D*	G29D
G23D	

NORTH UNIT WELLS	
R03S	G33D
G03M	G34D
G09M*	G35D
G09D*	G36S
G13S*	G37S
G13D*	G38S
G14D	G39S
G15S	G40S
G16M	G41S
G17S	G41M
G18S	G41D
G18D	R42S
G20D*	

GMZ WELLS			
R03S	G16M	G34S	G40S
G03M	G18D	G34D	G41S
G09M	G17S	G35S	G41M
G09D	G18S	G35D	G41D
G13S	G18D	G36S	R42S
G13D	G119	G37S	G130
G14D	G20D	G37D	SG1
G15S	G33S	G38S	SG3
G16S	G33D	G39S	SG4

* REPRESENTS UPGRADIENT OR BACKGROUND WELL

LEGEND	
◆	SGX STREAM GAUGE LOCATION
■	GP-XX GAS MONITORING PROBE
⊞	NORTH UNIT GROUND WATER MONITOR WELL OR GMZ WELL
⊕	SOUTH UNIT GROUND WATER MONITOR WELL
———	CURRENTLY PERMITTED FILL BOUNDARY
⊗	BENCHMARK
i=	GRADIENT

N

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)

NO.	DATE	REVISIONS DESCRIPTION	BY

ANDREWS ENVIRONMENTAL ENGINEERING INC.
3535 Mayflower Blvd., Springfield, IL 62707
Tel (217) 787-2334 Fax (217) 787-9495
Pontiac, IL • Warrenville, IL • Indianapolis, IN

APPROVED BY: SRH DESIGNED BY: LJE DRAWN BY: LJE

POTENTIOMETRIC SURFACE MAP – 1ST QUARTER 2004

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004

PROJECT ID: 90-114

FILE: [illegible]

SHEET NUMBER: 2

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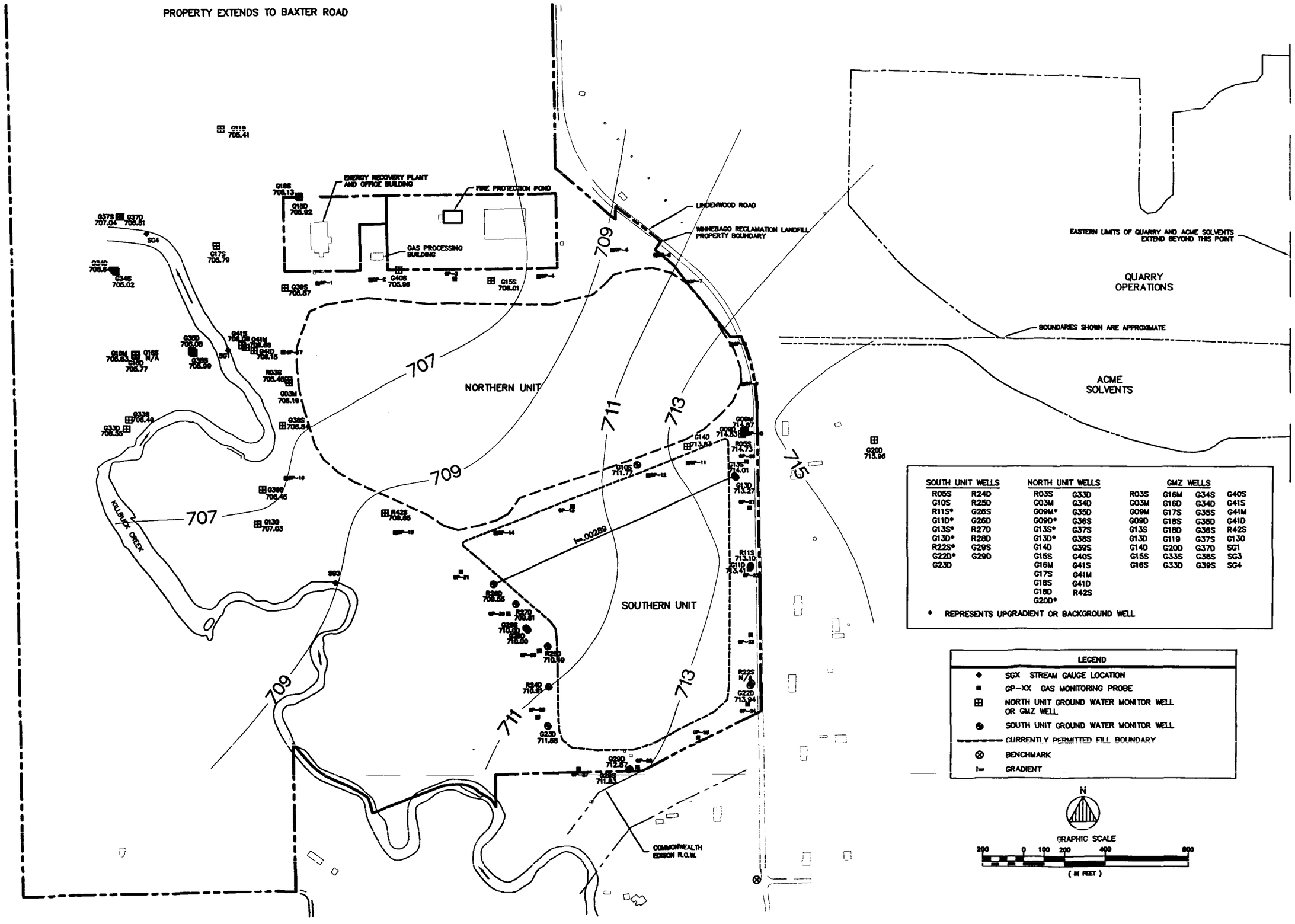

NO.	DATE	REVISIONS DESCRIPTION	BY

ANDREWS ENVIRONMENTAL ENGINEERING INC.
3535 Mayflower Blvd., Springfield, IL 62707
Tel (217) 787-2334 Fax (217) 787-9495
Pontiac, IL • Warrenville, IL • Indianapolis, IN

SRH DESIGNED BY: SRH DRAWN BY: LJE APPROVED BY:

POTENTIOMETRIC SURFACE MAP – 4TH QUARTER 2003

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004
PROJECT ID: 90-114
FILE:
SHEET NUMBER: 3

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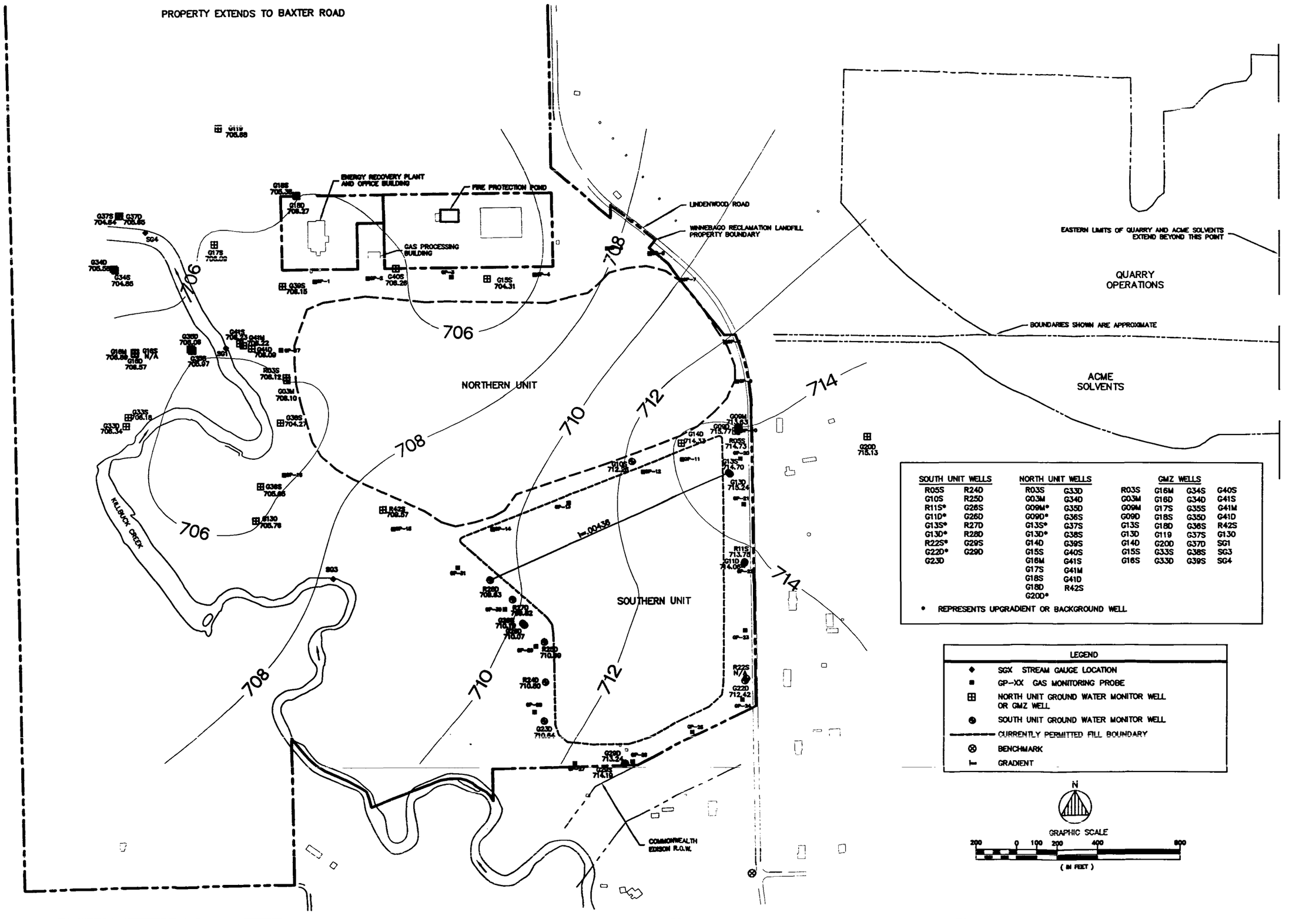

SOUTH UNIT WELLS	
R05S	R24D
G10S	R25D
R11S*	G26S
G11D*	G26D
G13S*	R27D
G13D*	R28D
R22S*	G29S
G22D*	G29D
G23D	

NORTH UNIT WELLS	
R03S	G33D
G03M	G34D
G09M*	G35D
G09D*	G36S
G13S*	G37S
G13D*	G38S
G14D	G39S
G15S	G40S
G16M	G41S
G17S	G41M
G18S	G41D
G18D	R42S
G20D*	

GMZ WELLS			
R03S	G16M	G34S	G40S
G03M	G16D	G34D	G41S
G09M	G17S	G35S	G41M
G09D	G18S	G35D	G41D
G13S	G18D	G36S	R42S
G13D	G119	G37S	G130
G14D	G20D	G37D	SG1
G15S	G33S	G38S	SG3
G16S	G33D	G39S	SG4

* REPRESENTS UPGRADIENT OR BACKGROUND WELL

LEGEND	
◆	SGX STREAM GAUGE LOCATION
■	GP-XX GAS MONITORING PROBE
⊞	NORTH UNIT GROUND WATER MONITOR WELL OR GMZ WELL
⊕	SOUTH UNIT GROUND WATER MONITOR WELL
———	CURRENTLY PERMITTED FILL BOUNDARY
⊗	BENCHMARK
i=	GRADIENT

NO.	DATE	REVISIONS DESCRIPTION	BY

ANDREWS ENVIRONMENTAL ENGINEERING INC.
3535 Mayflower Blvd., Springfield, IL 62707
Tel (217) 787-2334 Fax (217) 787-9465
Pontiac, IL • Warrenville, IL • Indianapolis, IN

DESIGNED BY: SRH DRAWN BY: LJE
APPROVED BY: SRH

POTENTIOMETRIC SURFACE MAP – 3RD QUARTER 2003

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004
PROJECT ID: 90-114
FILE:
SHEET NUMBER: 4

©2004 Andrews Environmental Engineering Inc.

PROPERTY EXTENDS TO BAXTER ROAD

ENERGY RECOVERY PLANT AND OFFICE BUILDING

FIRE PROTECTION POND

GAS PROCESSING BUILDING

LINDENWOOD ROAD

WINNEBAGO RECLAMATION LANDFILL PROPERTY BOUNDARY

NORTHERN UNIT

SOUTHERN UNIT

KILLBUCK CREEK

I = 0.0128

COMMONWEALTH EDISON R.O.W.

LEGEND

- GAS MONITORING PROBE
- NORTH UNIT GROUND WATER MONITOR WELL
- SOUTH UNIT GROUND WATER MONITOR WELL
- CURRENTLY PERMITTED FILL BOUNDARY
- BENCHMARK
- GRADIENT LINE

N

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)

REVISIONS			
NO.	DATE	DESCRIPTION	BY
1	8-25-01	ADDED NOTE, DELETED G145 & G140 DESIGNATIONS	BJH
2	6-23-03	G135 & G13D MEASURING POINT ELEVATIONS RESURVEYED	LJJ

ANDREWS ENVIRONMENTAL ENGINEERING INC.
3535 Mayflower Blvd., Springfield, IL 62707
Tel (217) 787-2334 Fax (217) 787-9445
Pontiac, IL • Warrenville, IL • Indianapolis, IN

APPROVED BY: LJE

POTENTIOMETRIC SURFACE MAP - 4/23/03

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JULY 2003

PROJECT #: 90-114

FILE: [illegible]

SHEET NUMBER: 5

DESIGNED BY: LJJ DRAWN BY: LJJ

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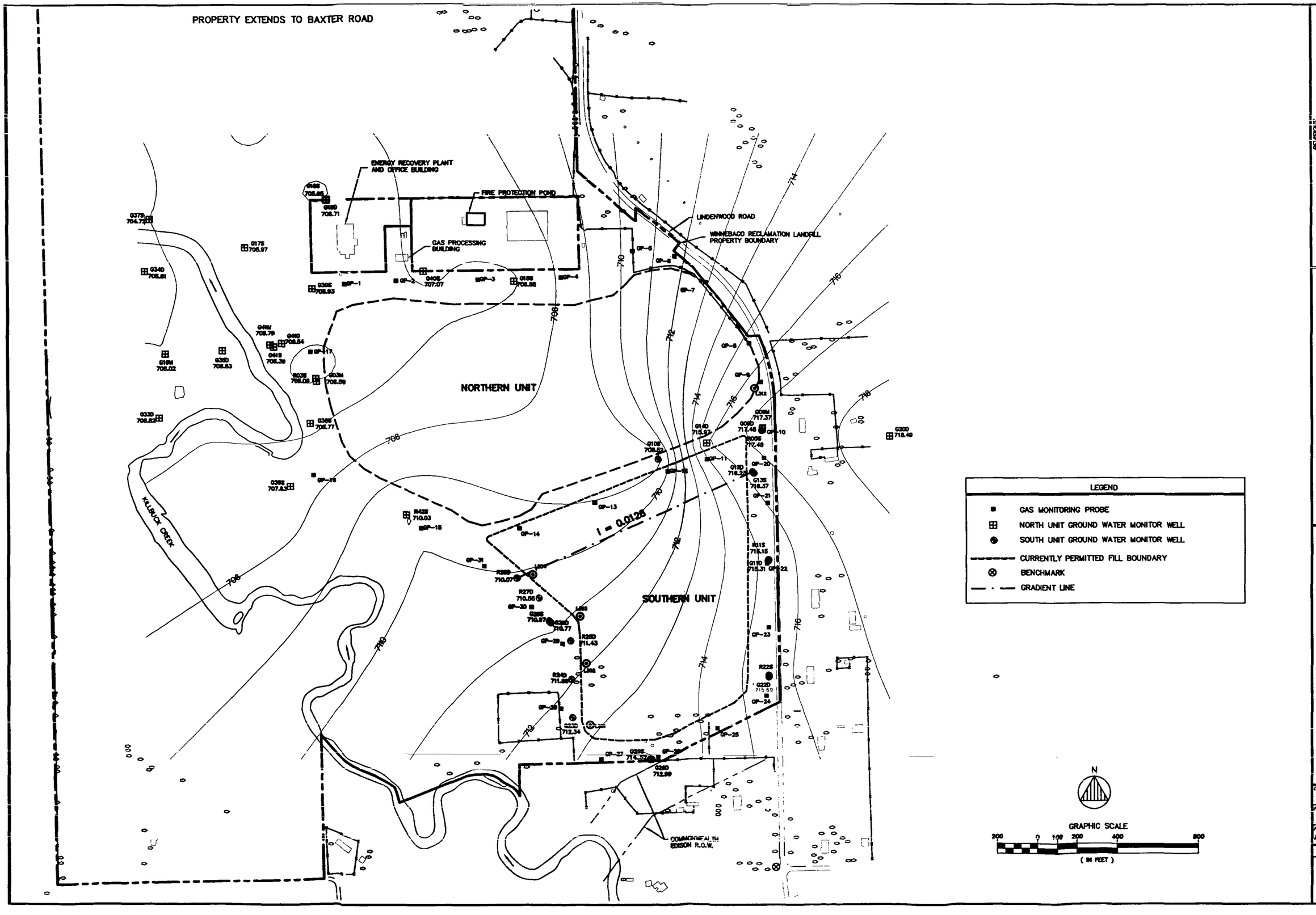

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	6-25-01	ADDED NOT: DELETED GAS & G44D DESIGNATIONS	BJH
2	6-23-03	G13S & G13D MEASURING POINT ELEVATIONS	LLJ
		RESURVEYED	

ANDREWS ENVIRONMENTAL ENGINEERING INC.
3535 Mayflower Blvd., Springfield, IL 62707
Tel (217) 787-2334 Fax (217) 787-9495
Pontiac, IL • Warrenville, IL • Indianapolis, IN

APPROVED BY: LLJ DESIGNED BY: LLJ DRAWN BY: LJE

POTENTIOMETRIC SURFACE MAP - 1/08/03

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JULY 2003
PROJECT ID: 90-114
FILE:
SHEET NUMBER: 6

APPENDIX D

DRAWING NO. WLM-04

SDMS US EPA Region V

Imagery Insert Form

Document ID: 301302

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DRAWING #WLM-04

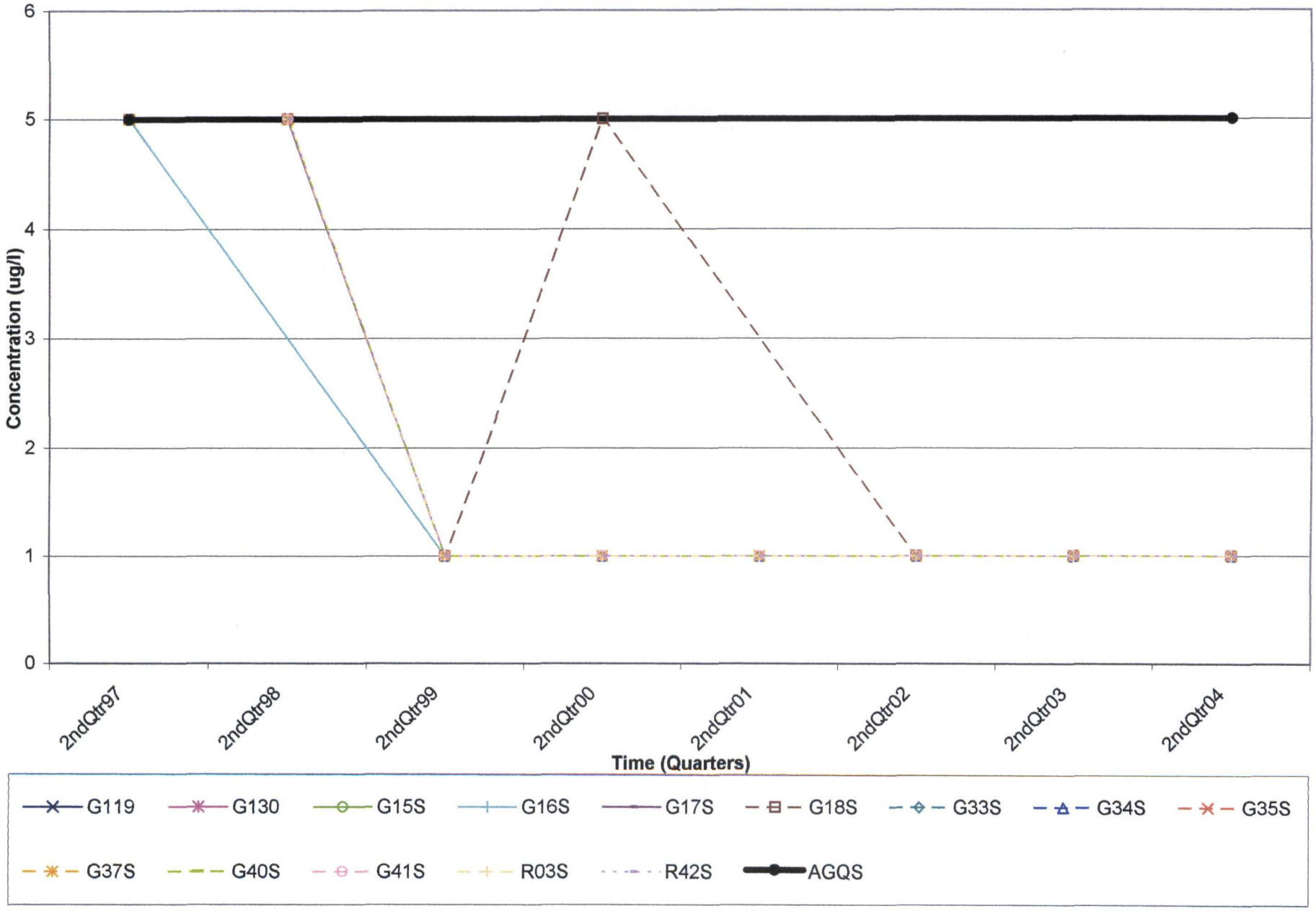
☐ Document is available at the EPA Region 5 Records Center.

Specify Type of Document(s) / Comments:

APPENDIX E

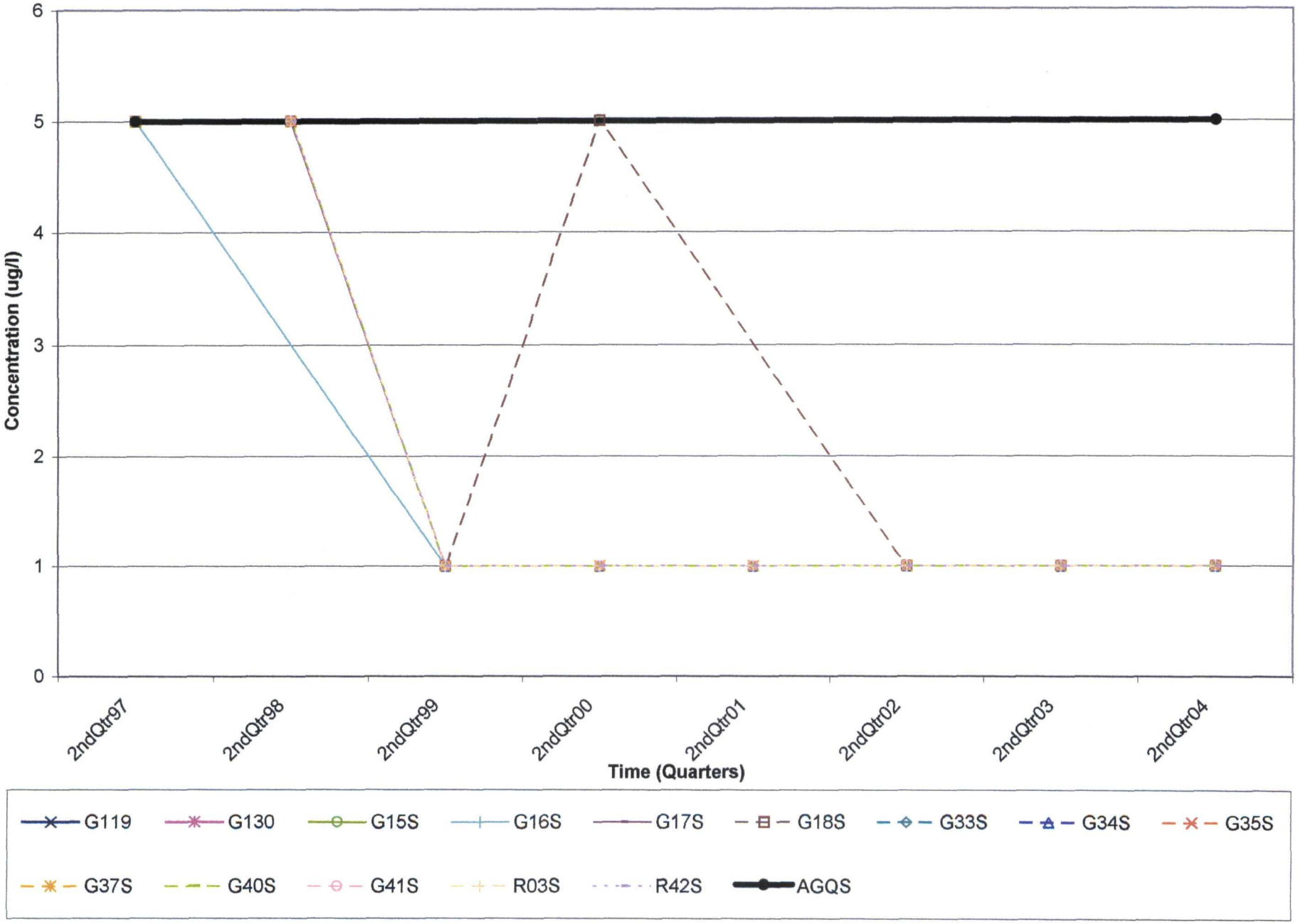
UPPER ZONE TREND GRAPHS

Winnebago Reclamation - Upper Zone Wells
1,2,3-Trichlorobenzene



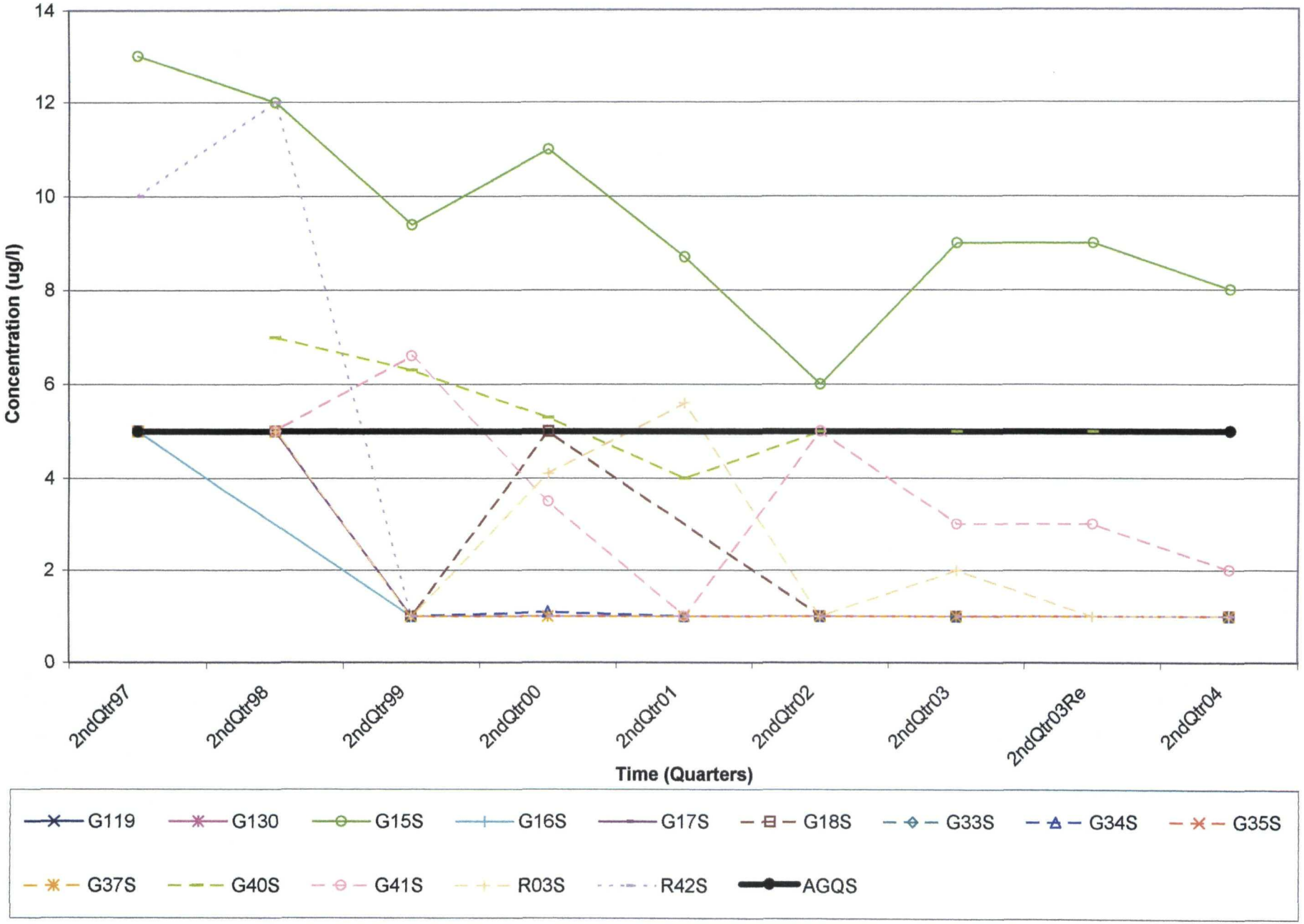
GMZ Graphs 2004 Upper Sand color
1,2,3-TCB

Winnebago Reclamation - Upper Zone Wells
1,2,4-Trichlorobenzene



GMZ Graphs 2004 Upper Sand color
1,2,4-TCB

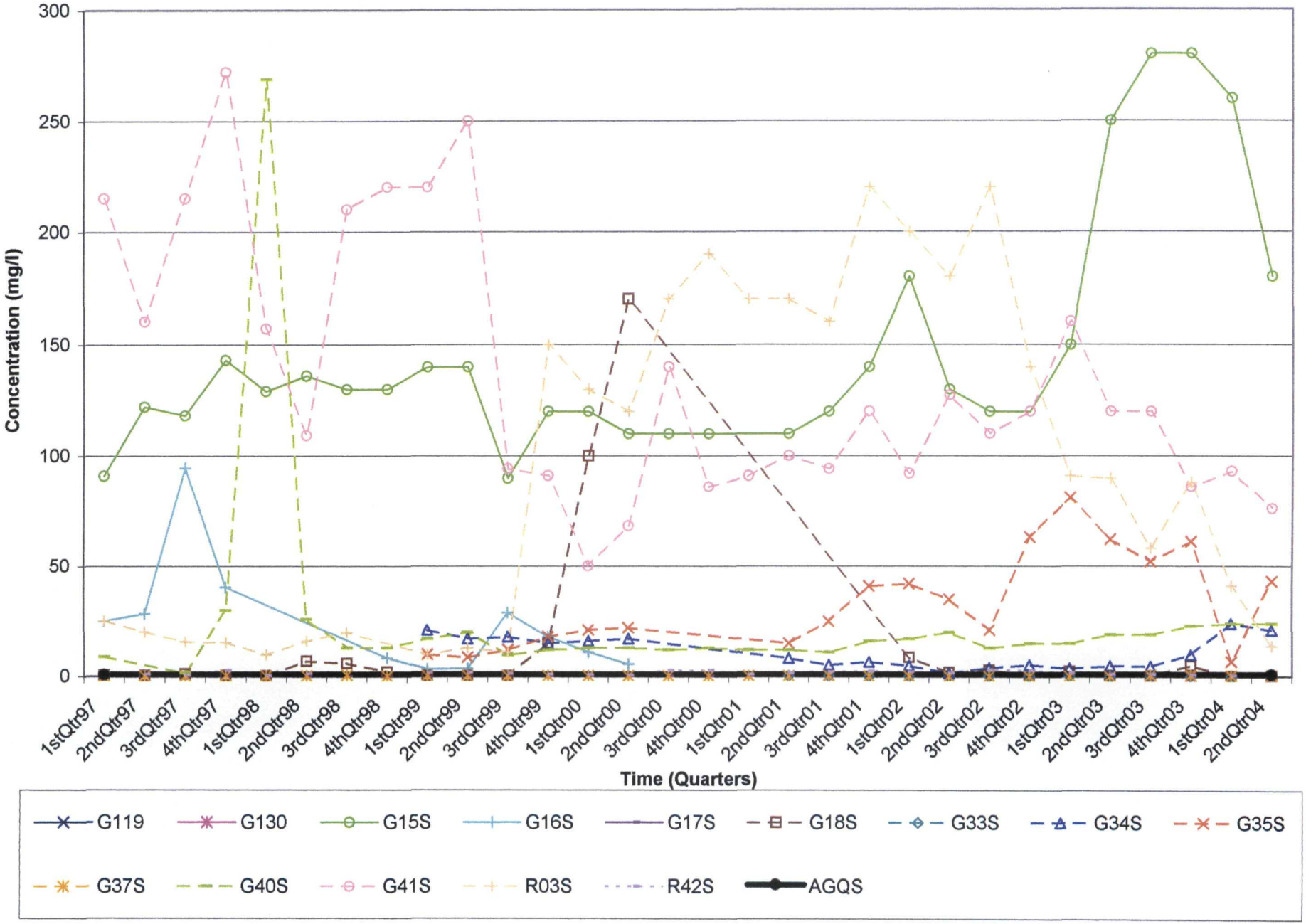
Winnebago Reclamation - Upper Zone Wells
1,4-Dichlorobenzene



GMZ Graphs 2004 Upper Sand color
1,4-DCB

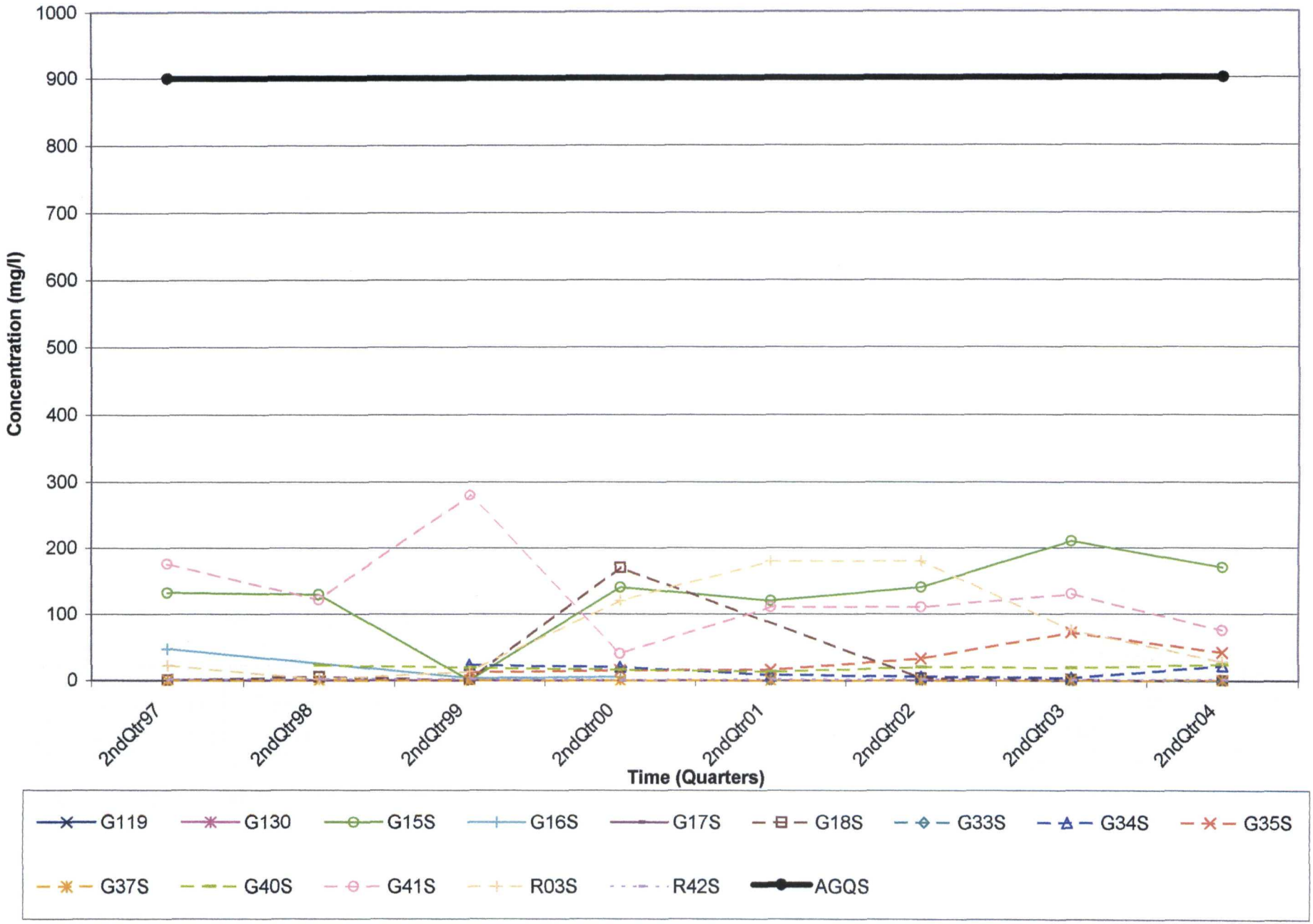
Winnebago Reclamat - Upper Zone Wells

Ammonia as N, dissolved



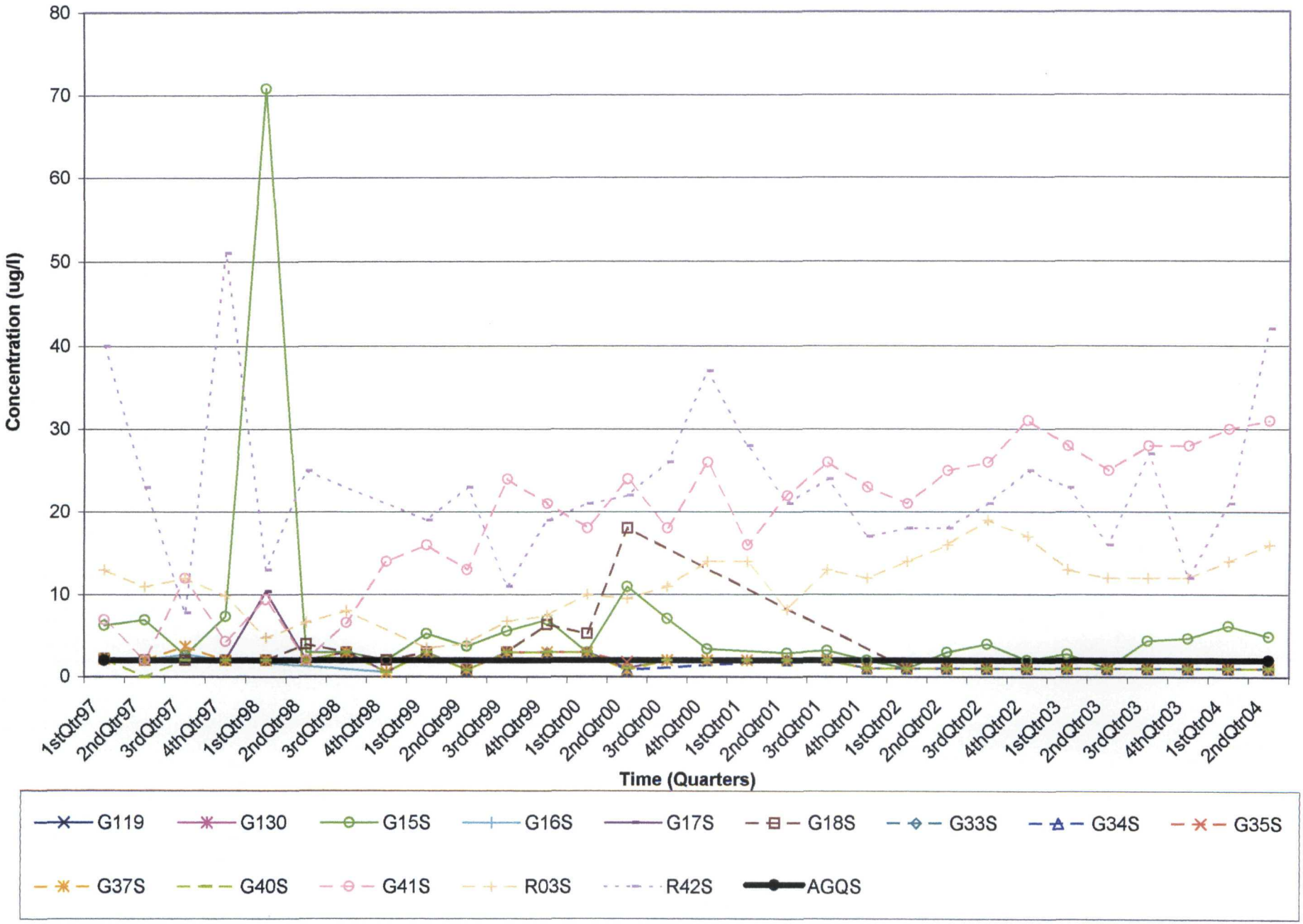
GMZ Graphs 2004 Upper Sand color
NH3,d

Winnebago Reclamation - Upper Zone Wells
Ammonia as N, total



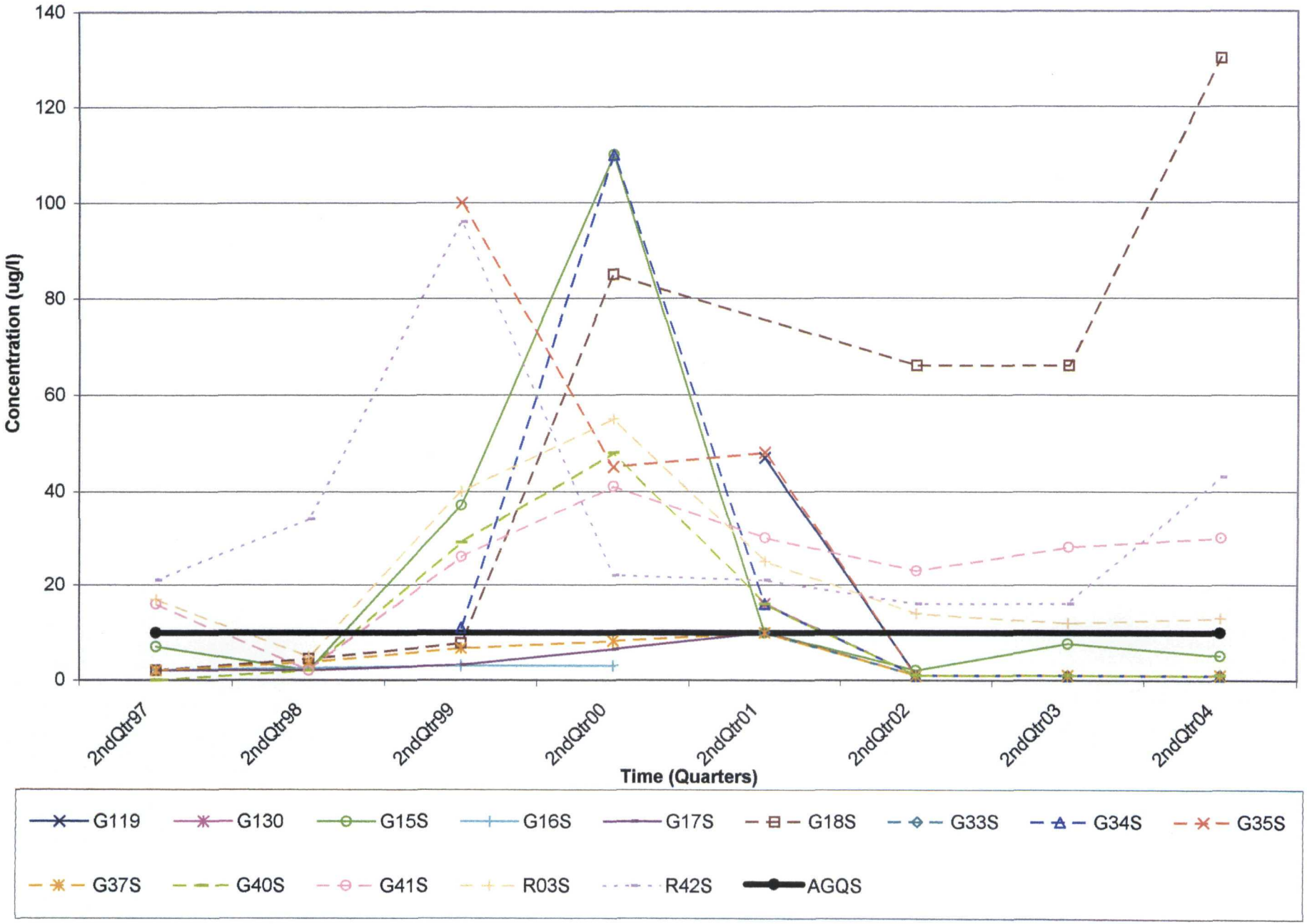
GMZ Graphs 2004 Upper Sand color
NH3,t

Winnebago Reclamation - Upper Zone Wells
Dissolved Arsenic



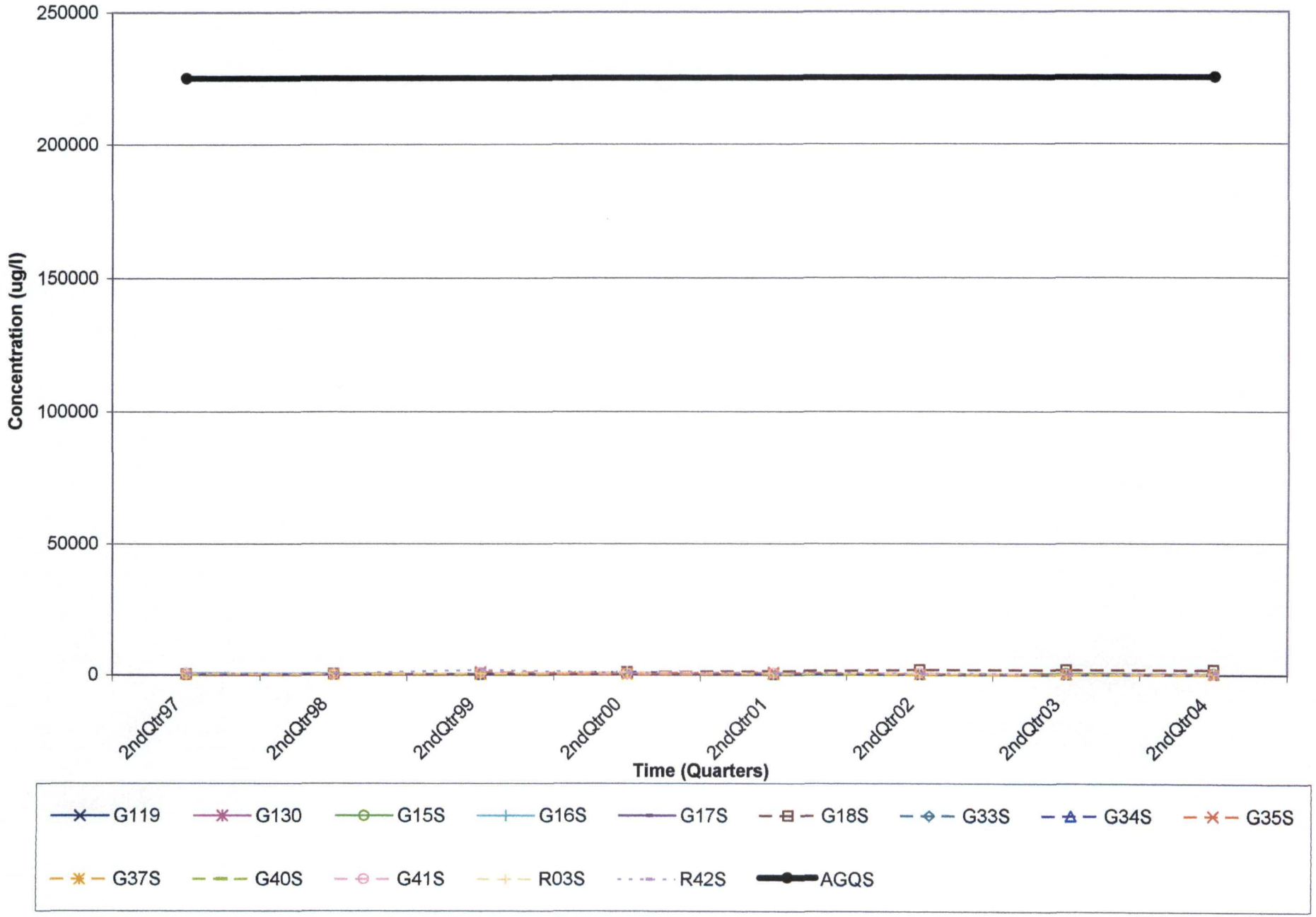
GMZ Graphs 2004 Upper Sand color
As,d

Winnebago Reclamation - Upper Zone Wells
Total Arsenic



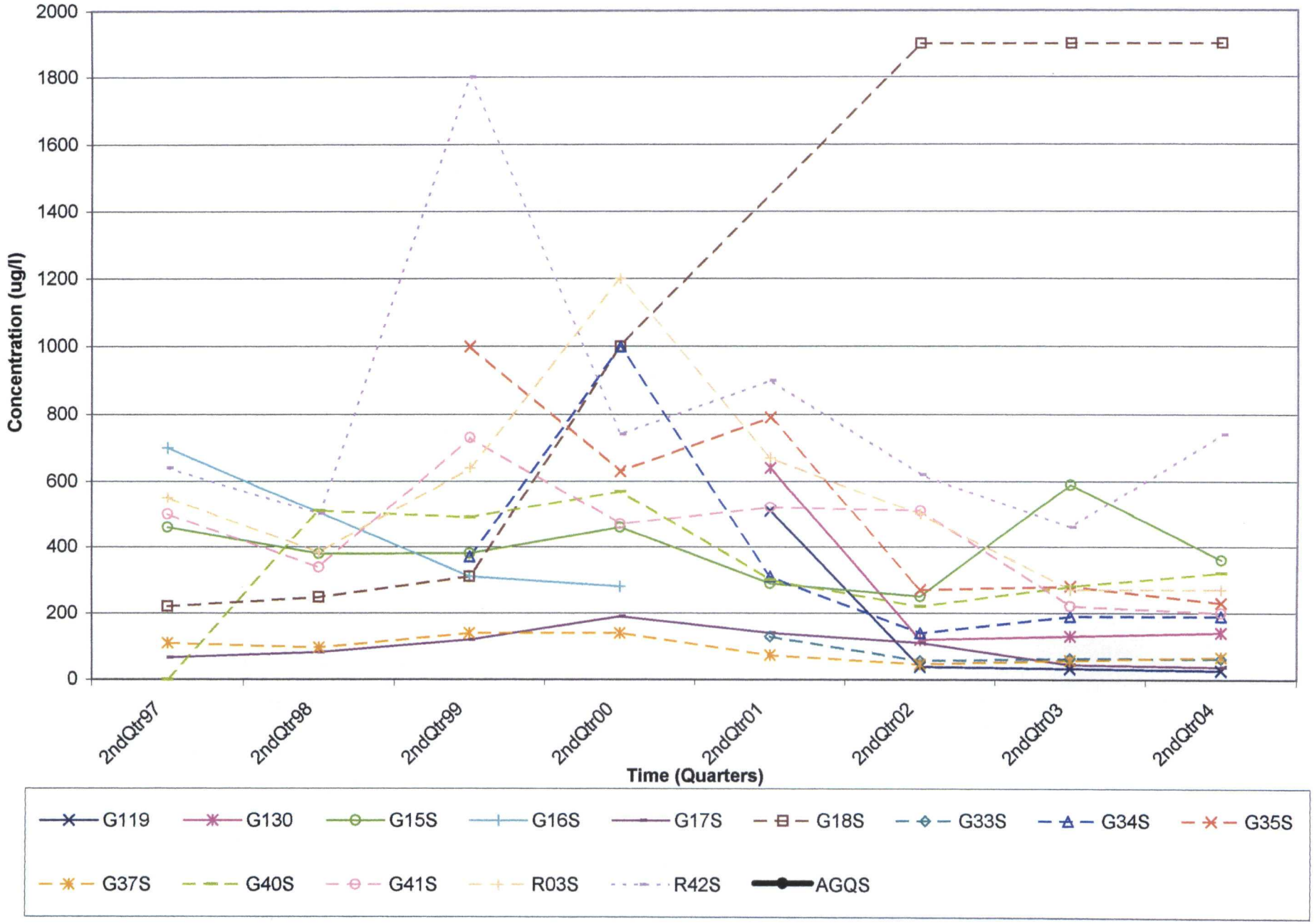
GMZ Graphs 2004 Upper Sand color
As,t

Winnebago Reclamation - Upper Zone Wells
Total Barium



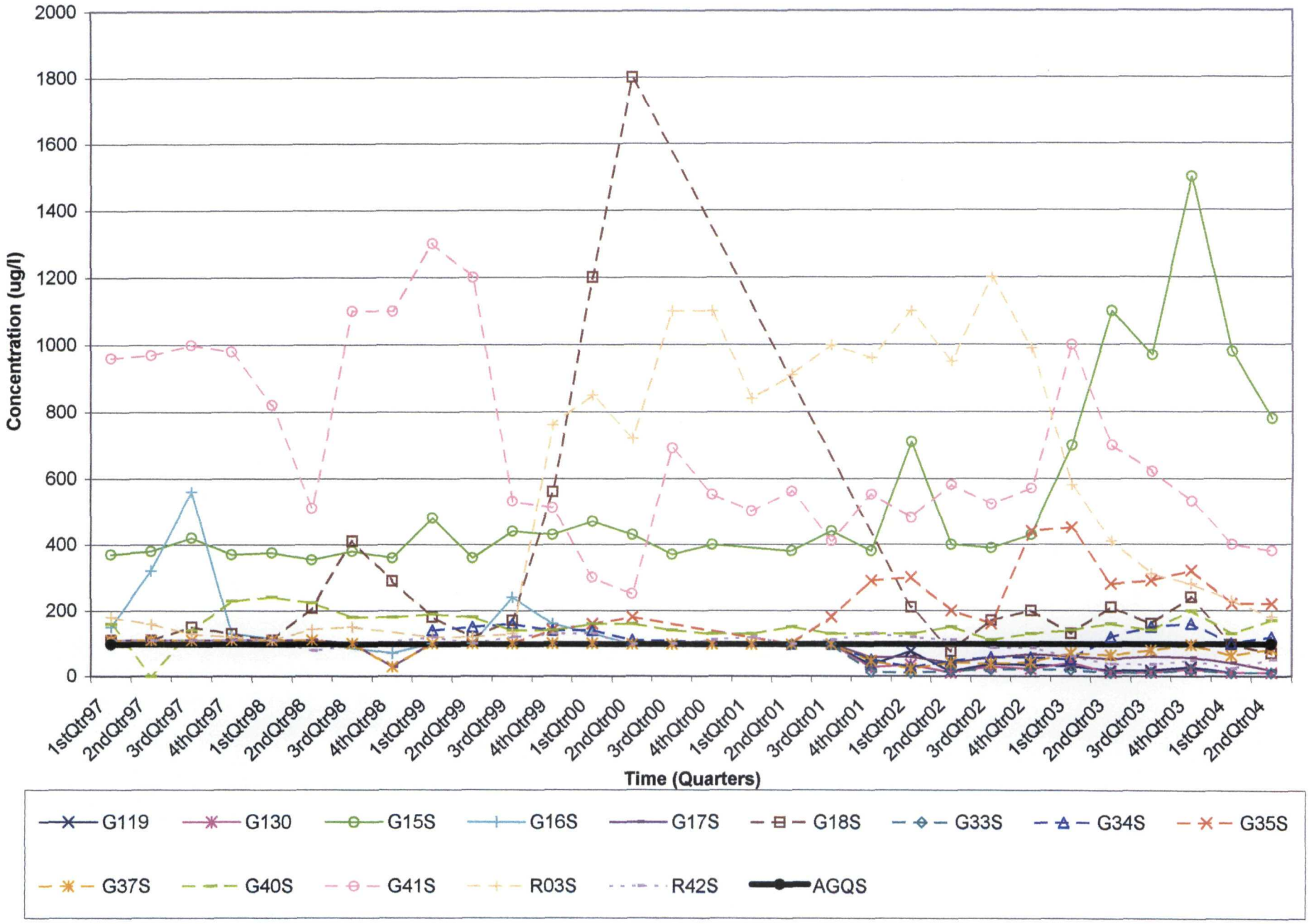
GMZ Graphs 2004 Upper Sand color
Ba,t

Winnebago Reclamation - Upper Zone Wells
Total Barium



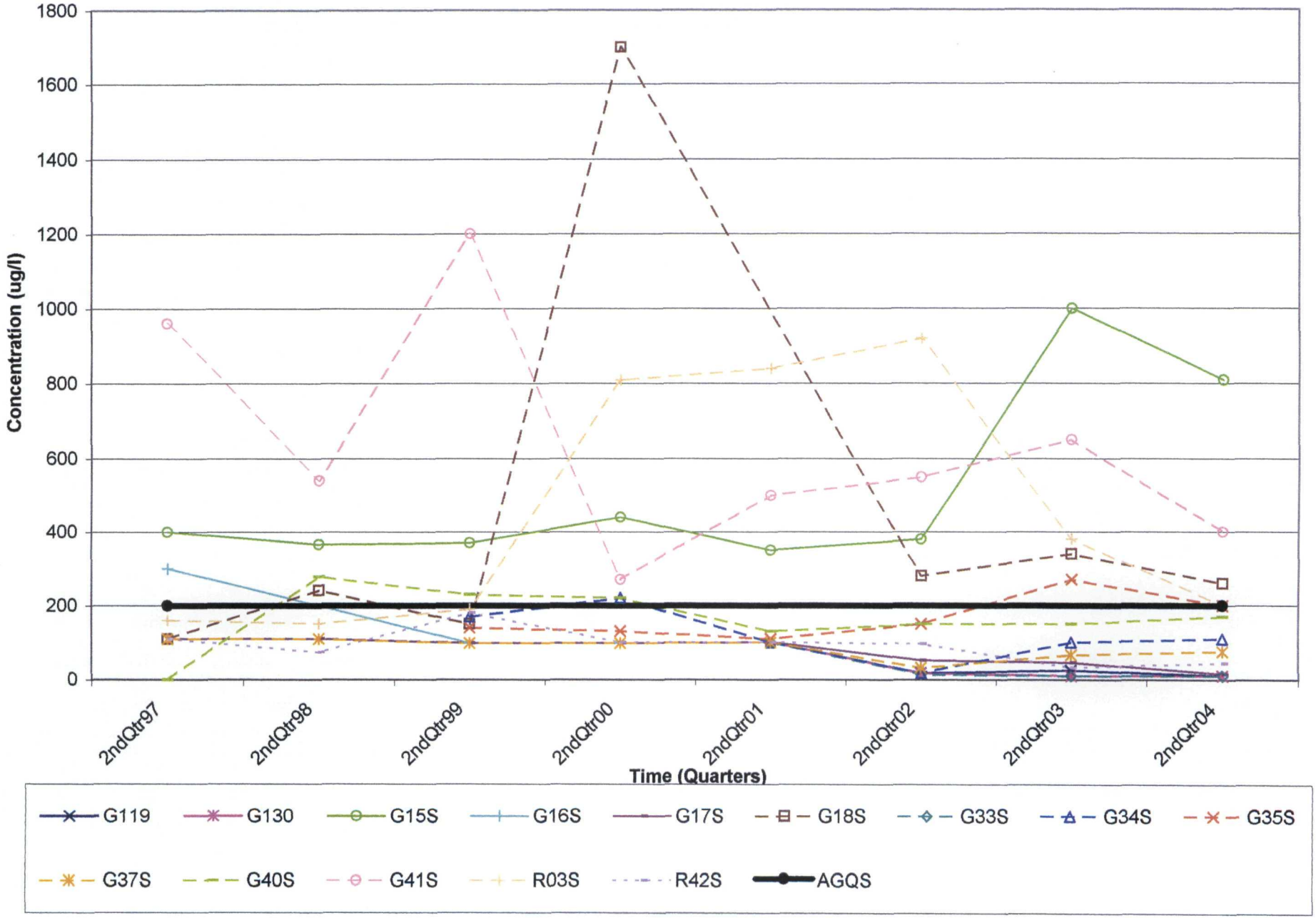
GMZ Graphs 2004 Upper Sand color
Ba,t scale

Winnebago Reclamation - Upper Zone Wells
Dissolved Boron



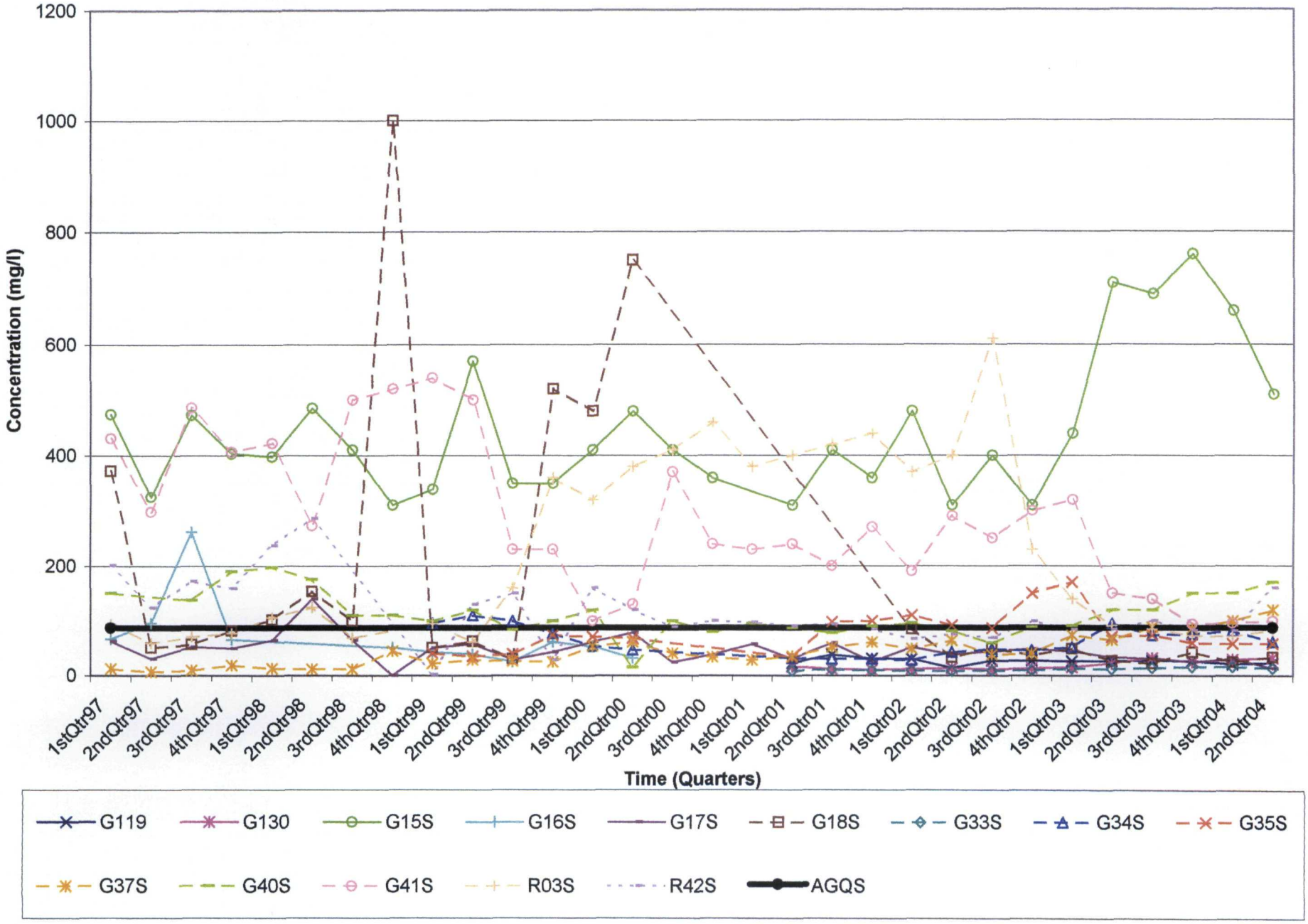
GMZ Graphs 2004 Upper Sand color
B,d

Winnebago Reclamation - Upper Zone Wells
Total Boron



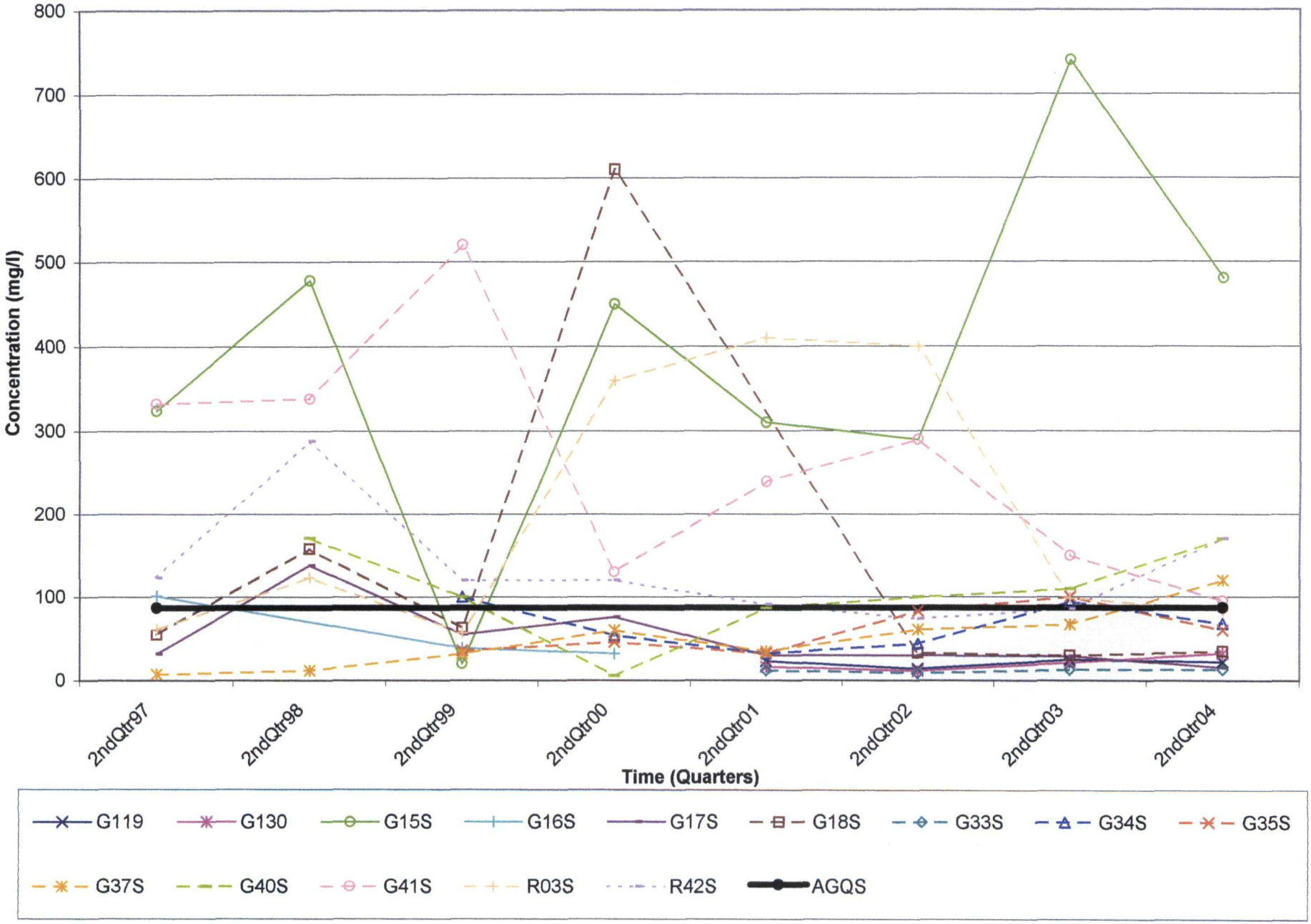
GMZ Graphs 2004 Upper Sand color
B,t

Winnebago Reclamation - Upper Zone Wells
Dissolved Chloride



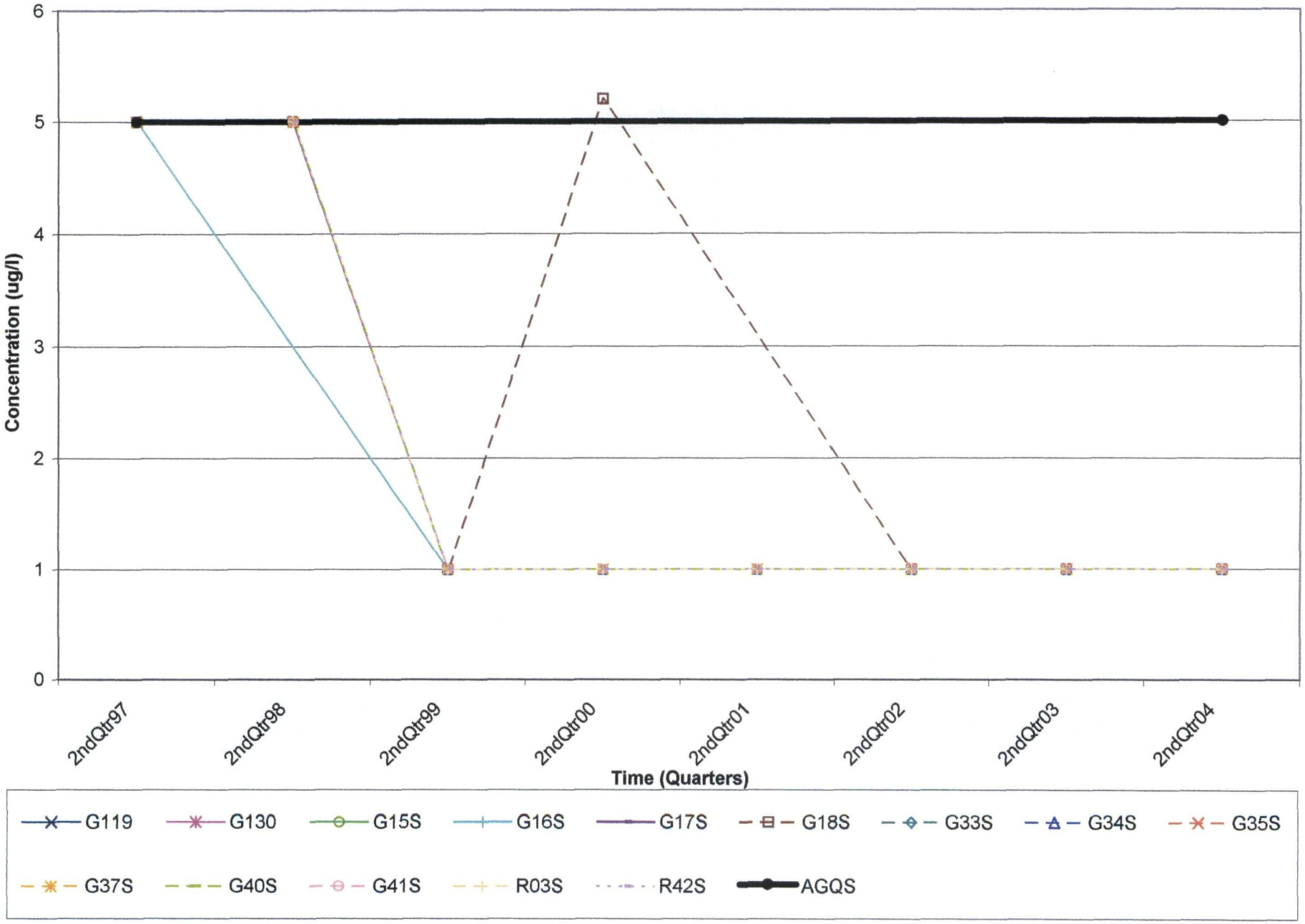
GMZ Graphs 2004 Upper Sand color
Cl,d

Winnebago Reclamation - Upper Zone Wells
Total Chloride



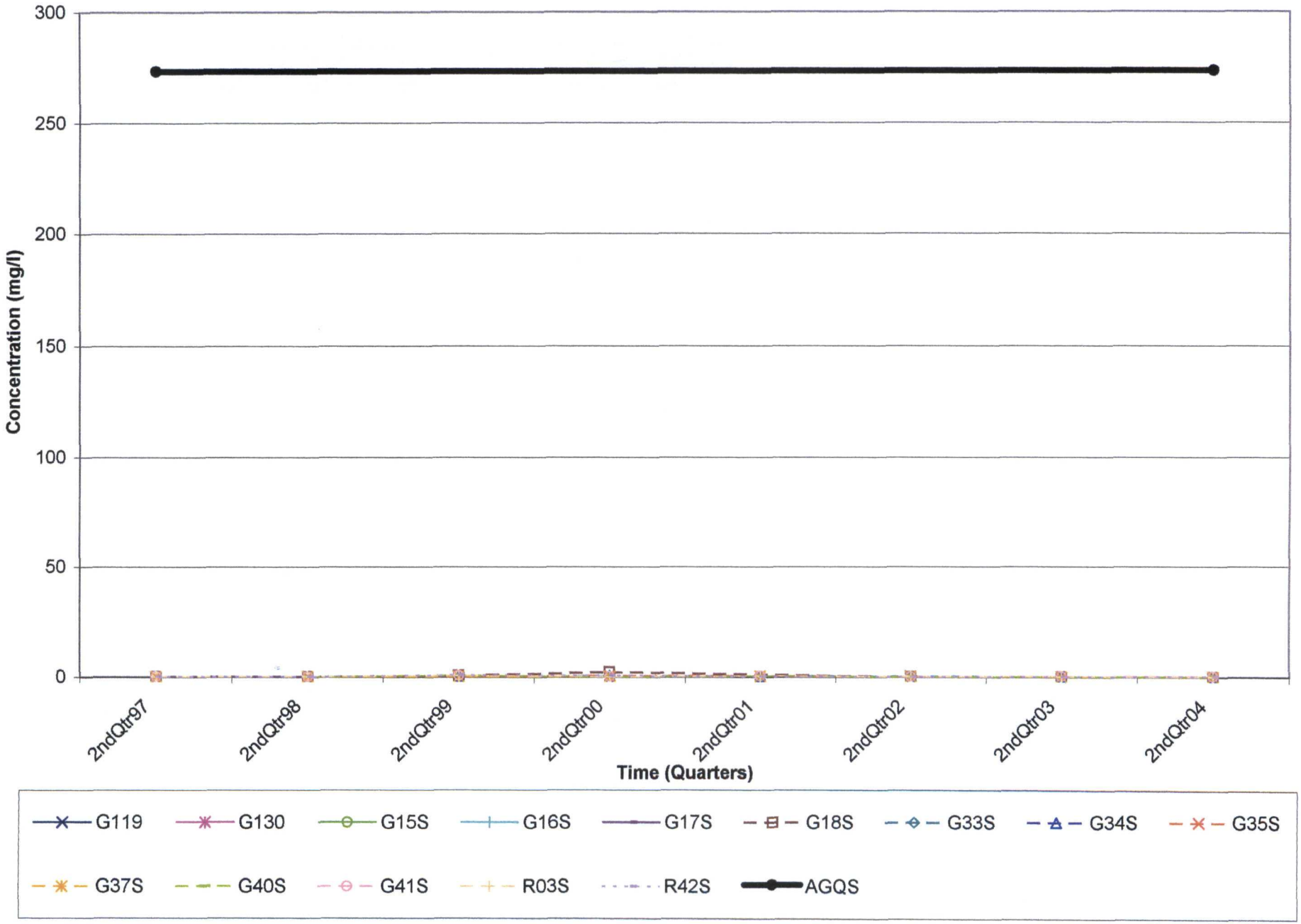
GMZ Graphs 2004 Upper Sand color
Cl,t

Winnebago Reclamation - Upper Zone Wells
Ethylbenzene



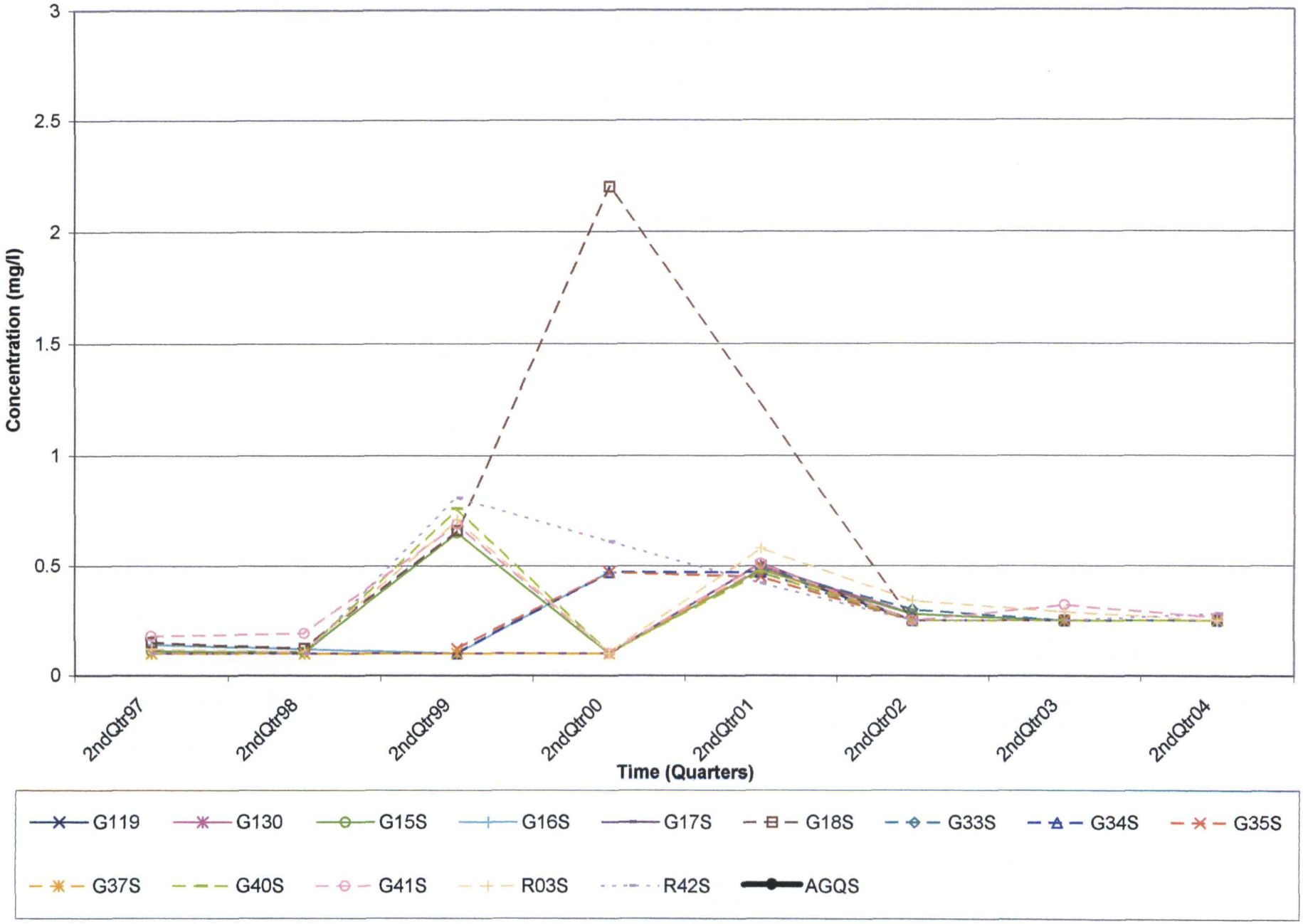
GMZ Graphs 2004 Upper Sand color
Ethylbenzene

Winnebago Reclamation - Upper Zone Wells
Total Fluoride



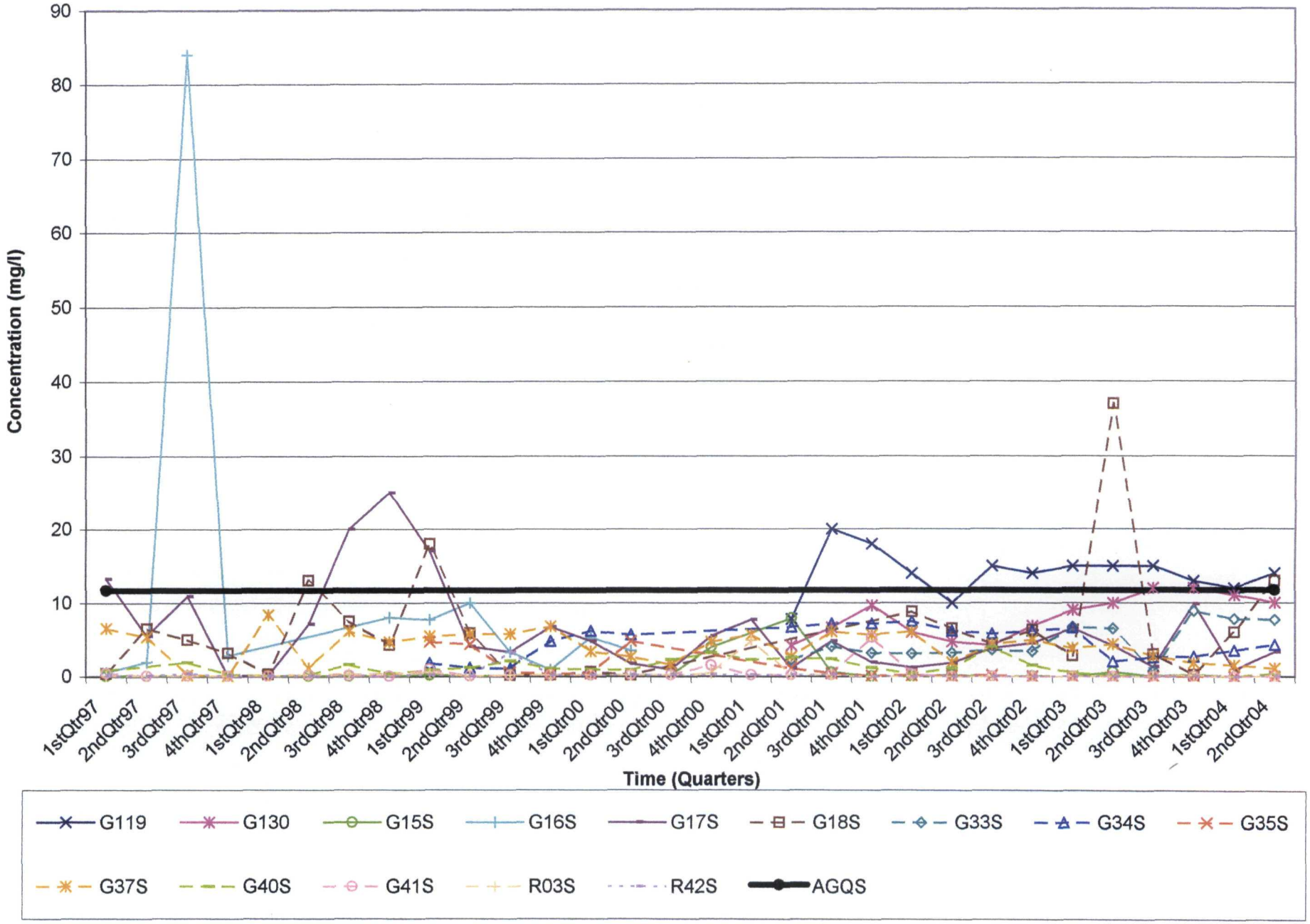
GMZ Graphs 2004 Upper Sand color
Fluoride

Winnebago Reclamation - Upper Zone Wells
Total Fluoride



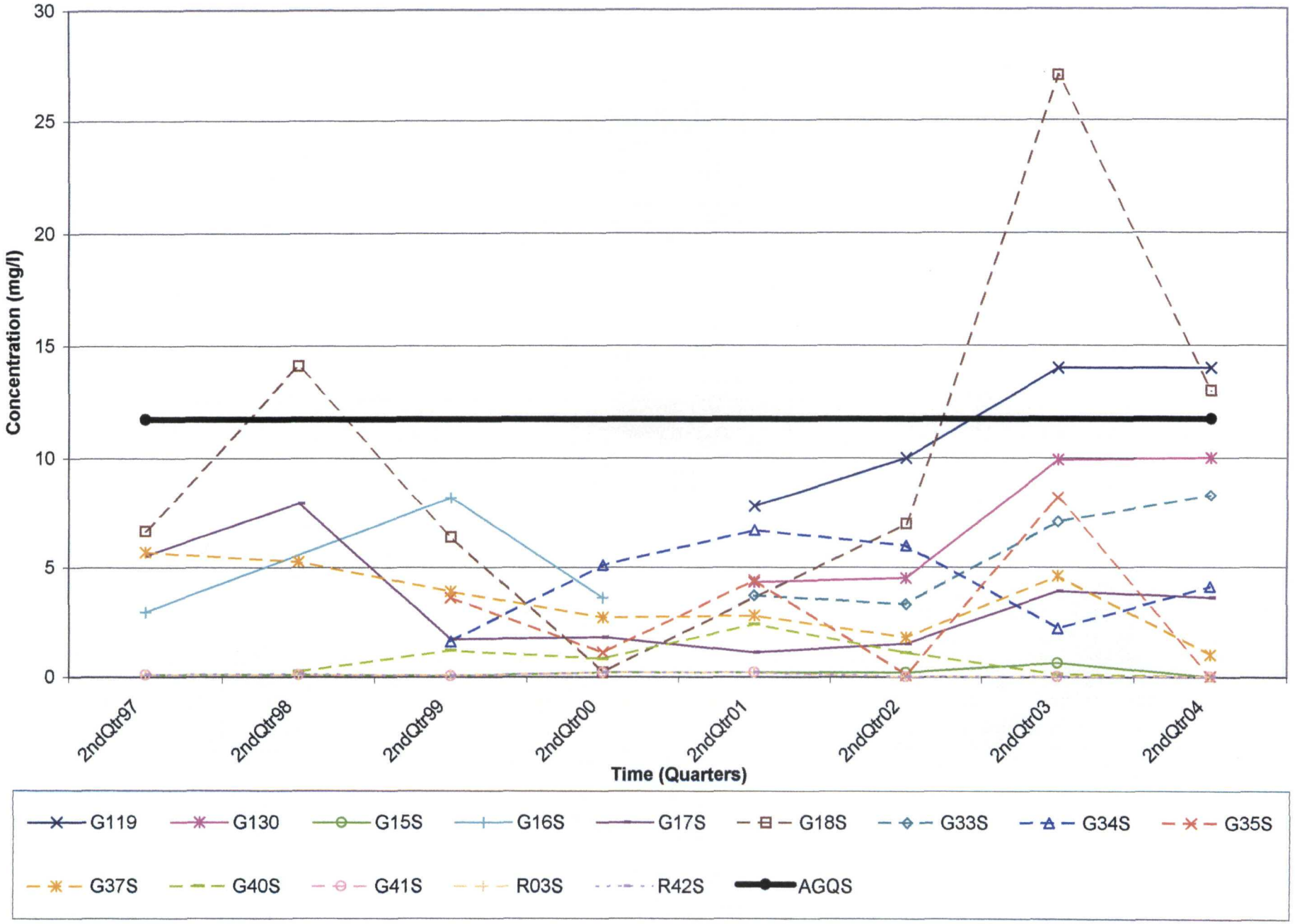
GMZ Graphs 2004 Upper Sand color
Fluoride scale

Winnebago Reclamation - Upper Zone Wells
Dissolved Nitrate



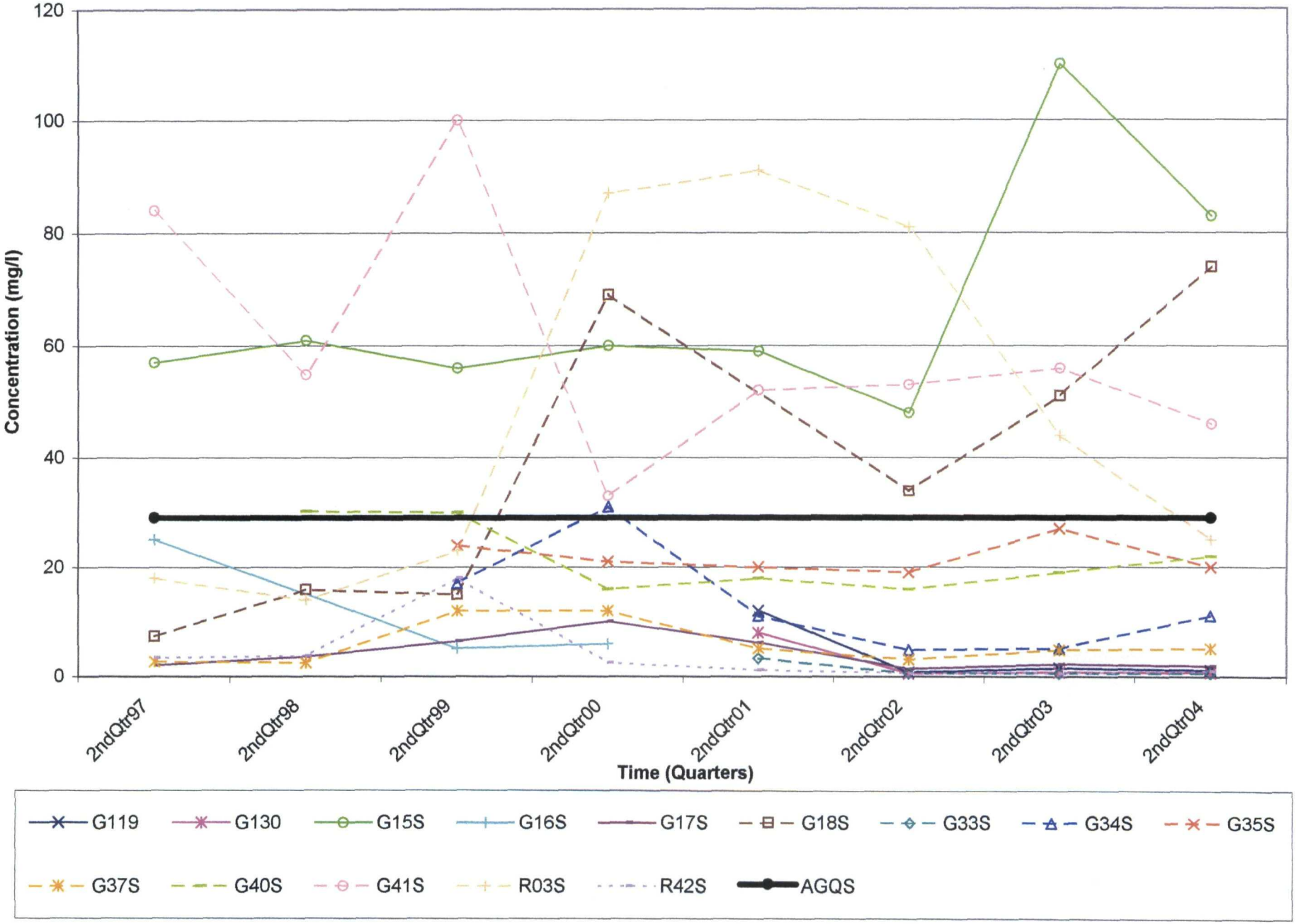
GMZ Graphs 2004 Upper Sand color
Nitrate,d

Winnebago Reclamation - Upper Zone Wells
Total Nitrate



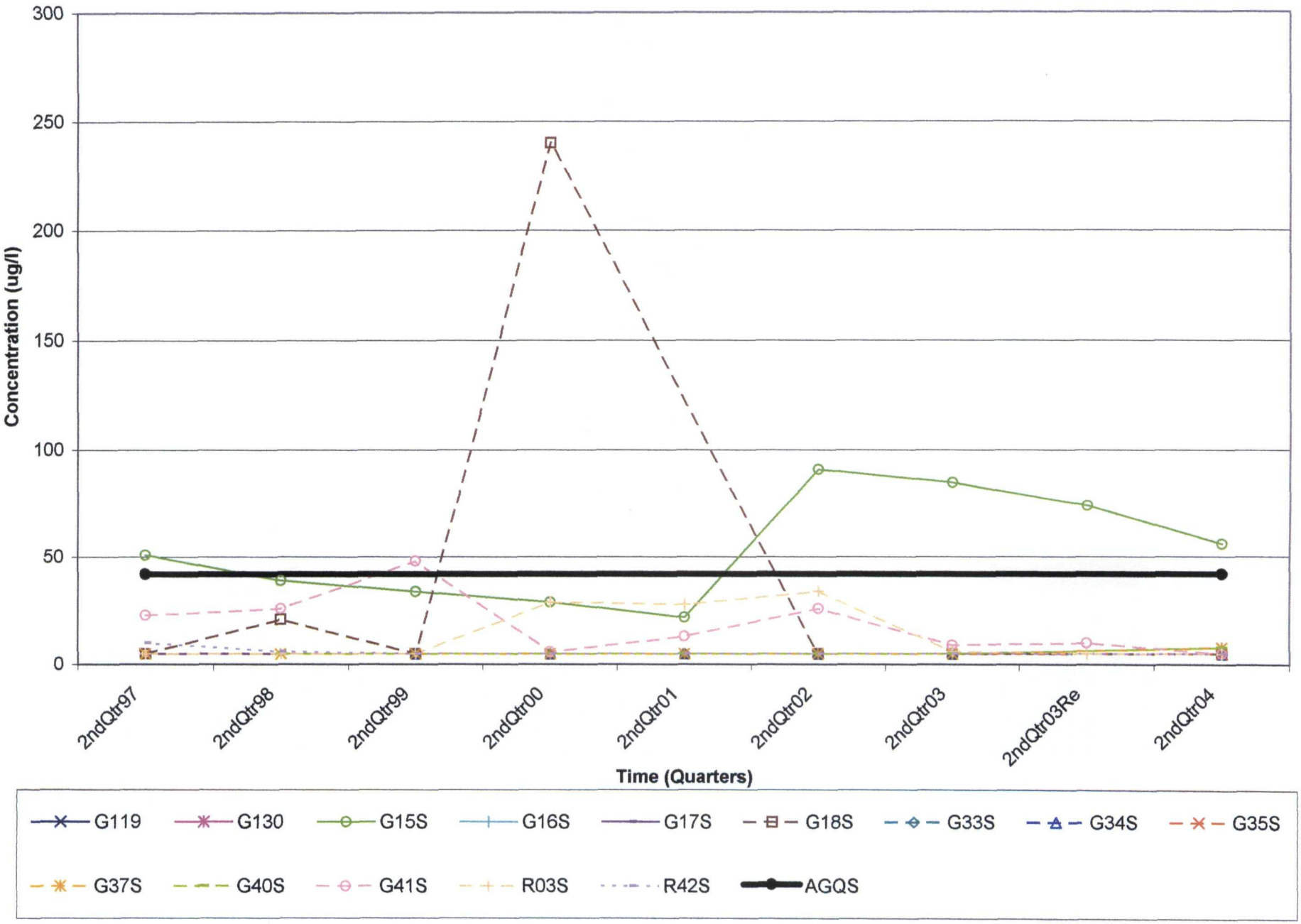
GMZ Graphs 2004 Upper Sand color
Nitrate

Winnebago Reclamation - Upper Zone Wells
Total Potassium



GMZ Graphs 2004 Upper Sand color
Potassium

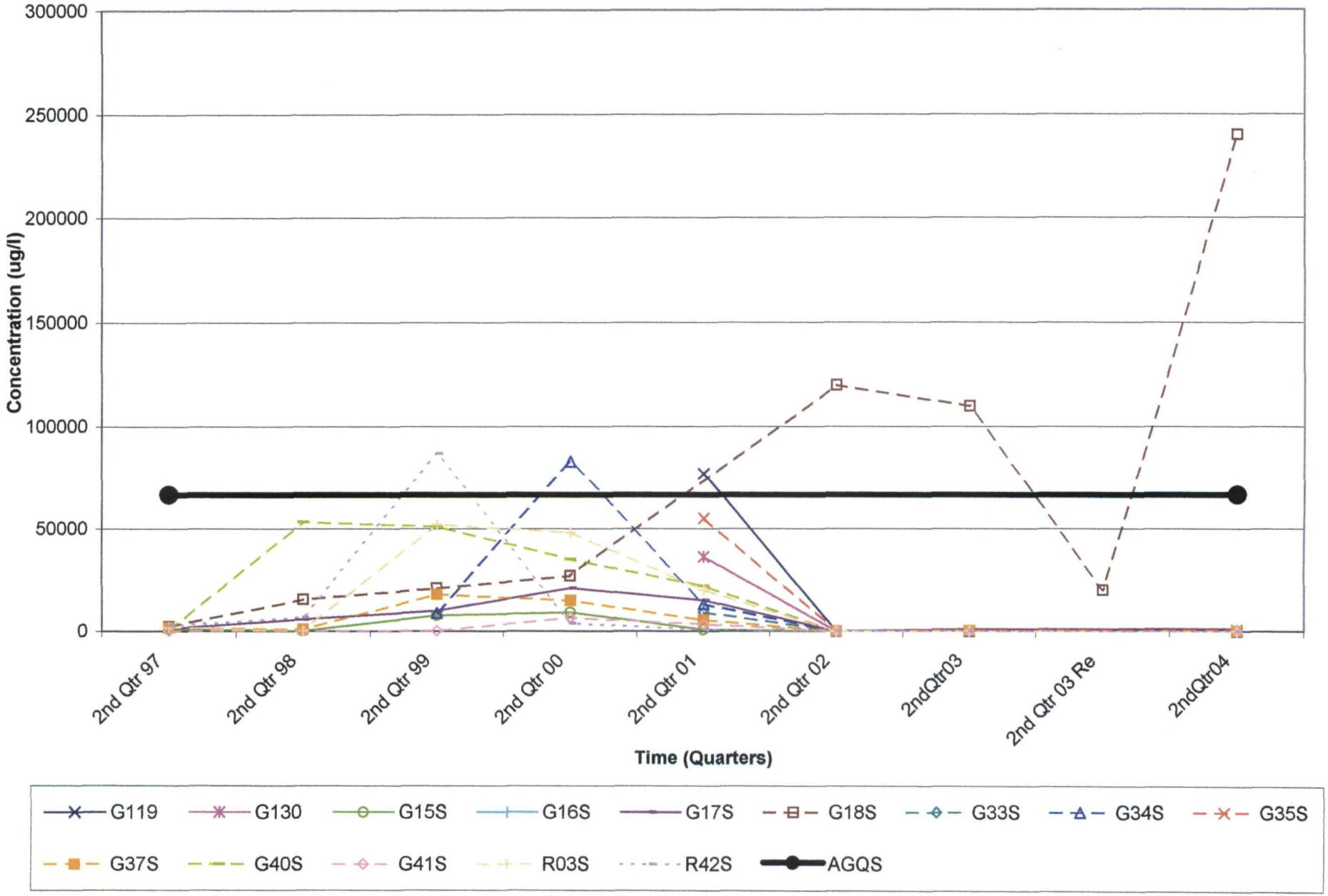
Winnebago Reclamation - Upper Zone Wells
Tetrahydrofuran



GMZ Graphs 2004 Upper Sand color
Tetrahydrofuran

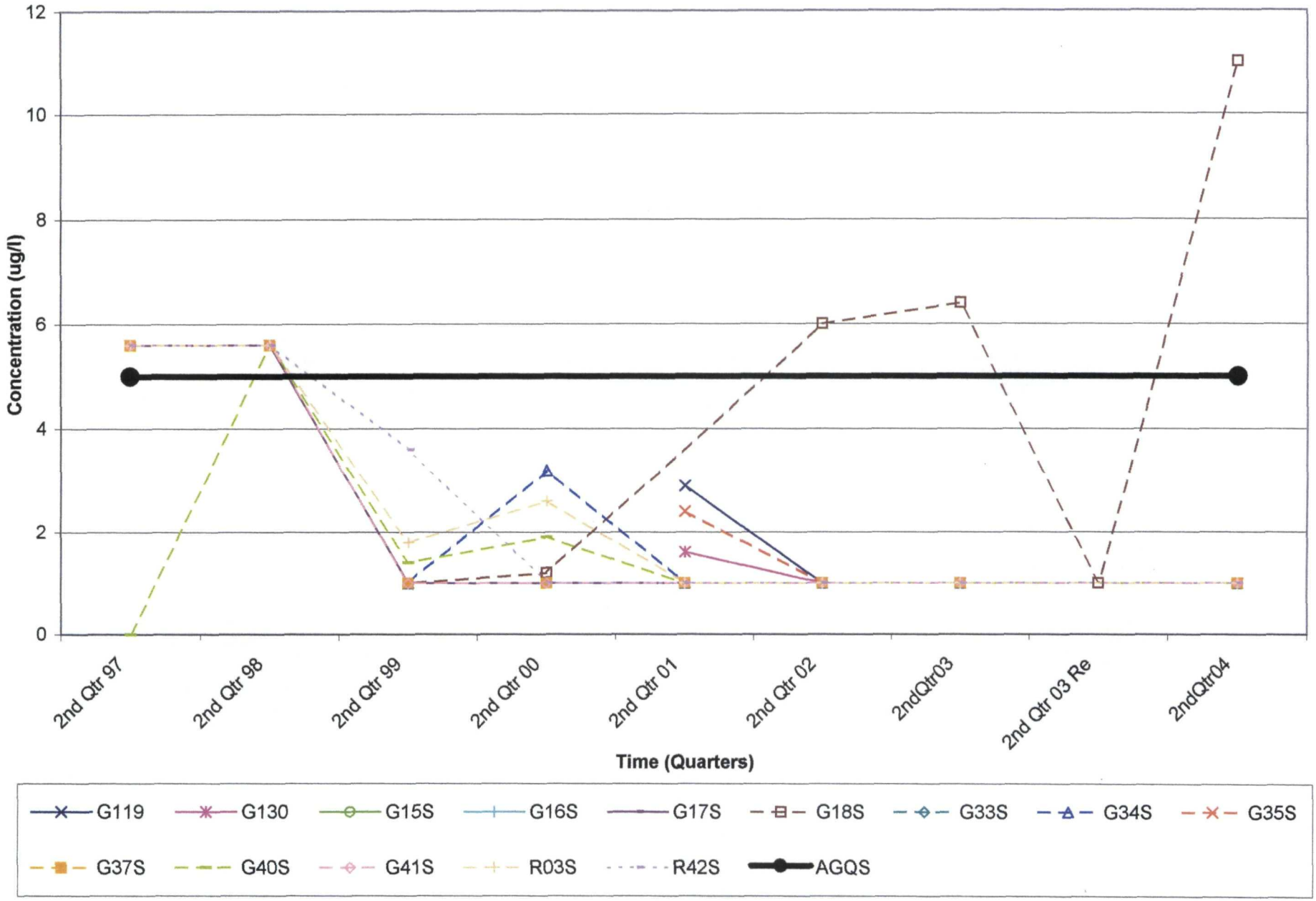
Non-GMZ Parameter Specific Trend Graphs

Winnebago Reclamation - Upper Zone Wells
Total Aluminum



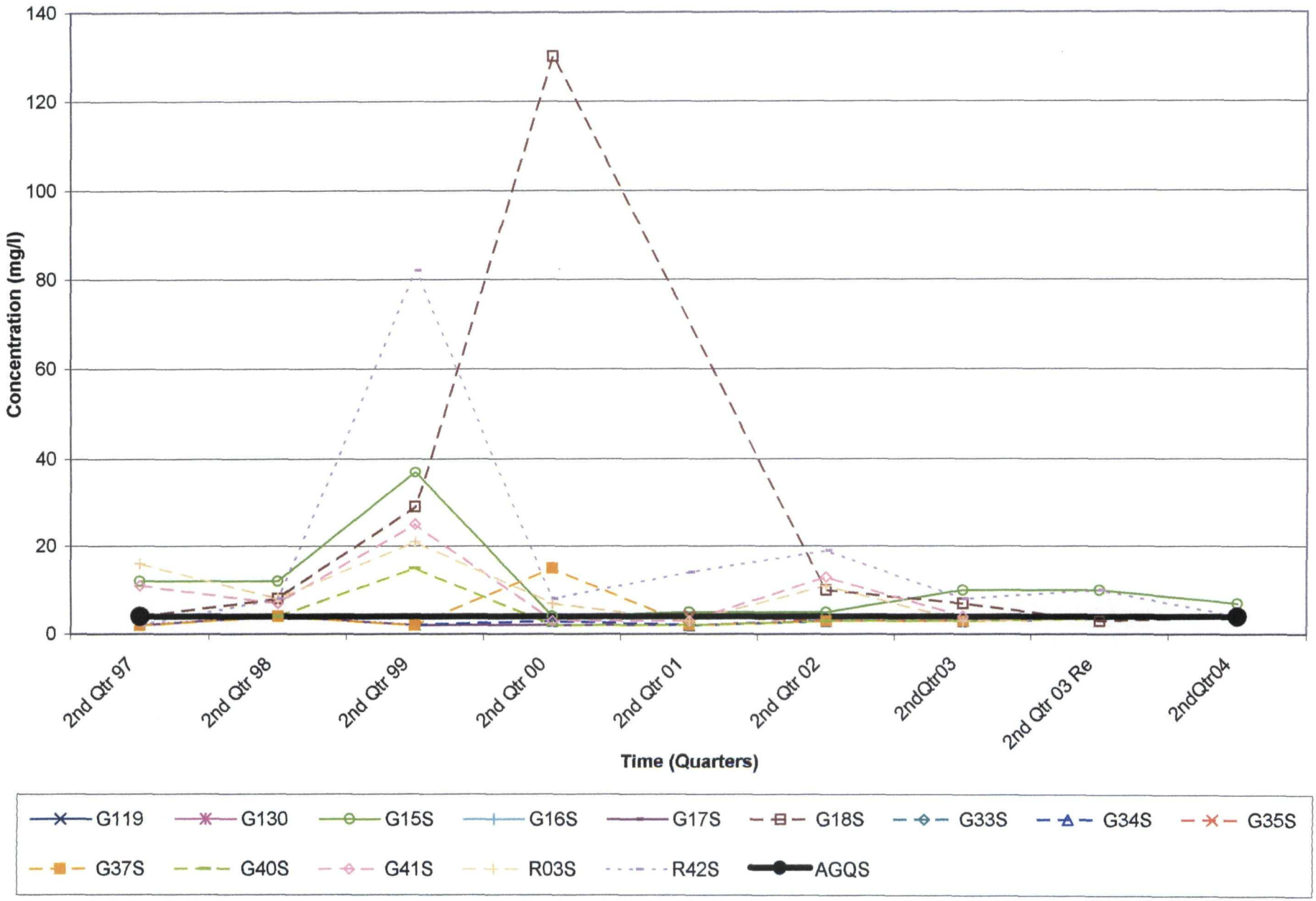
Exceedence Graphs Non GMZ Parameters Upper Sand
Al

Winnebago Reclamation - Upper Zone Wells
Total Beryllium



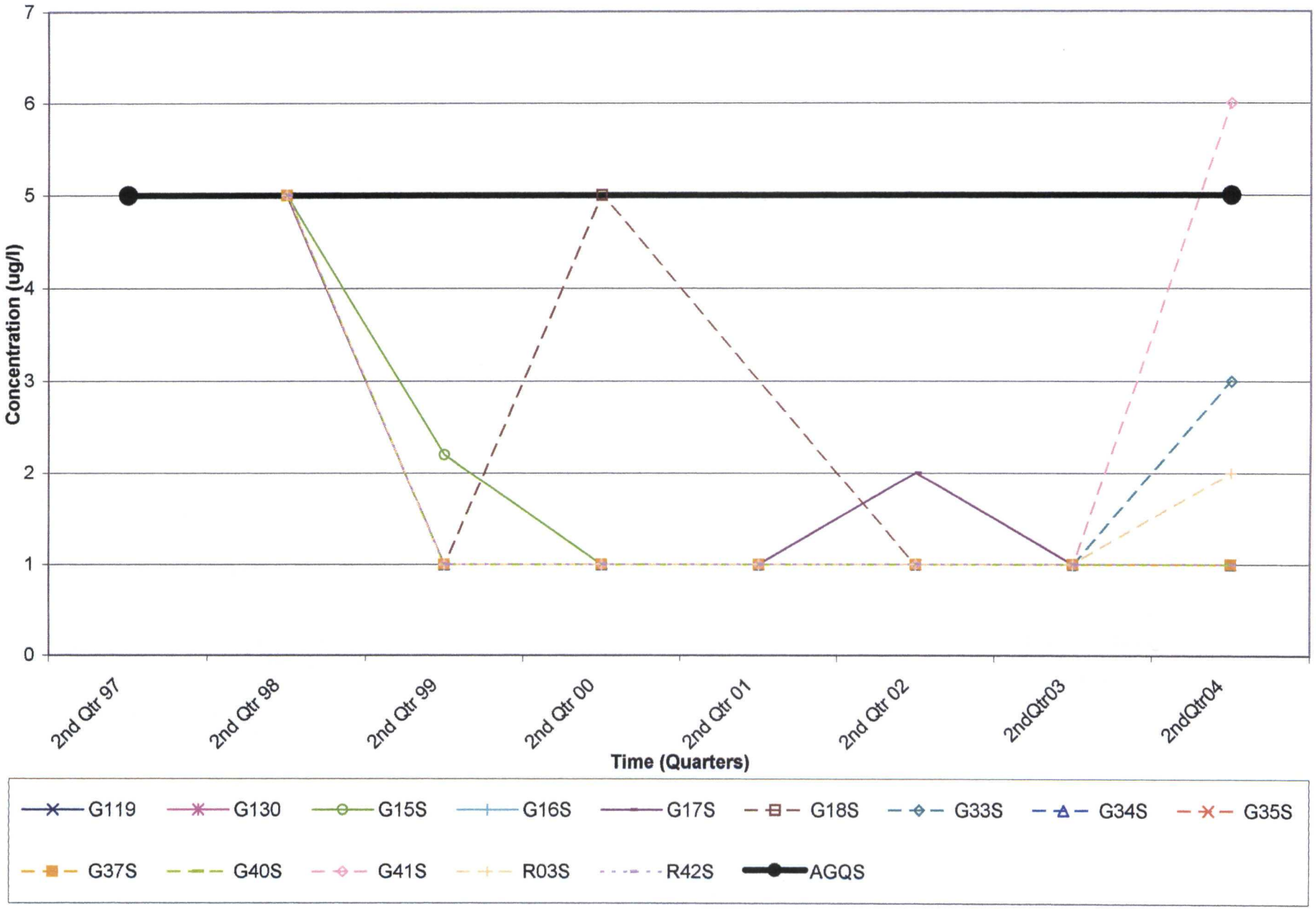
Exceedence Graphs Non GMZ Parameters Upper Sand
Be

Winnebago Reclamation - Upper Zone Wells
Biochemical Oxygen Demand



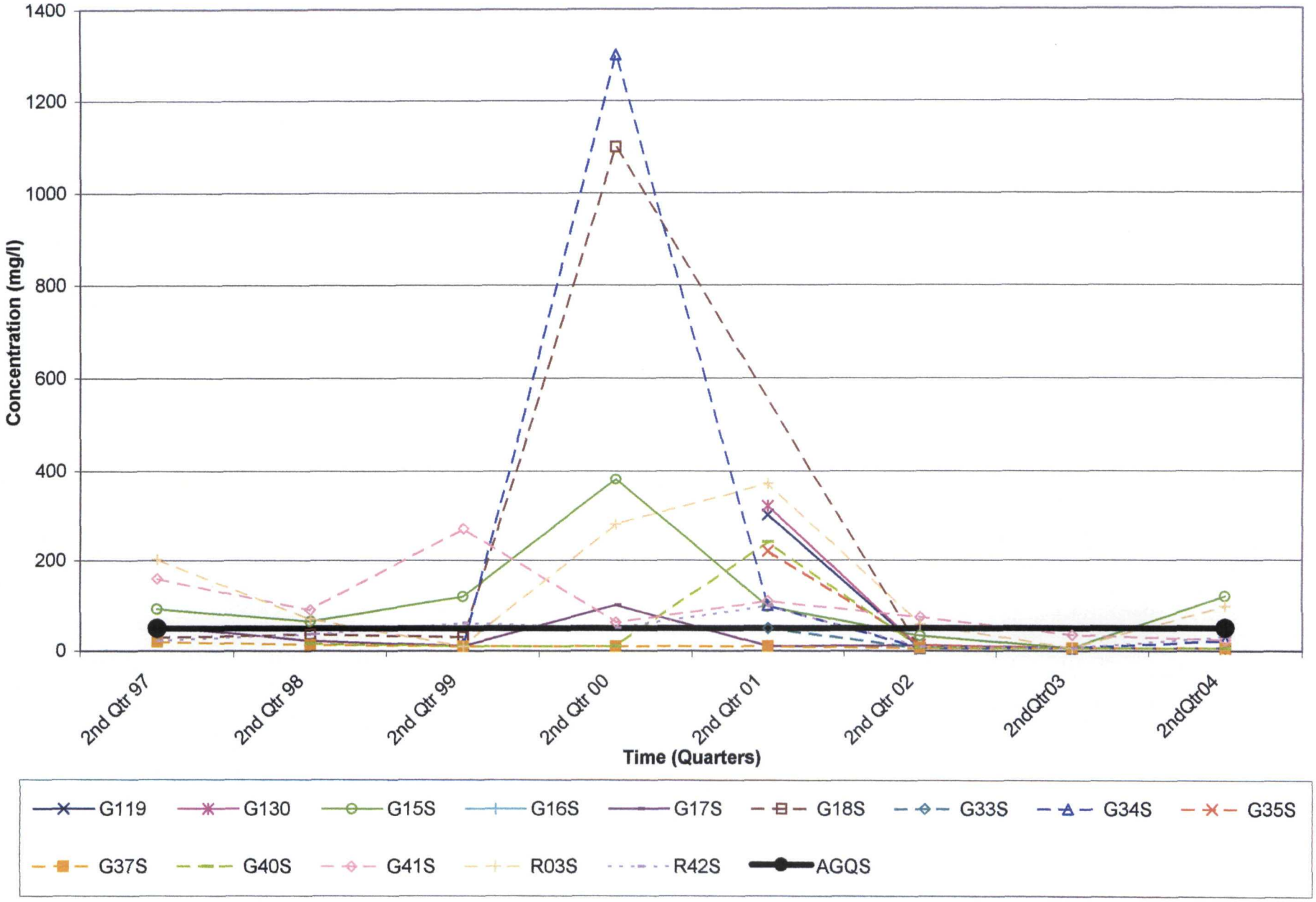
Exceedence Graphs Non GMZ Parameters Upper Sand
BOD

Winnebago Reclamation - Upper Zone Wells
Carbon Disulfide



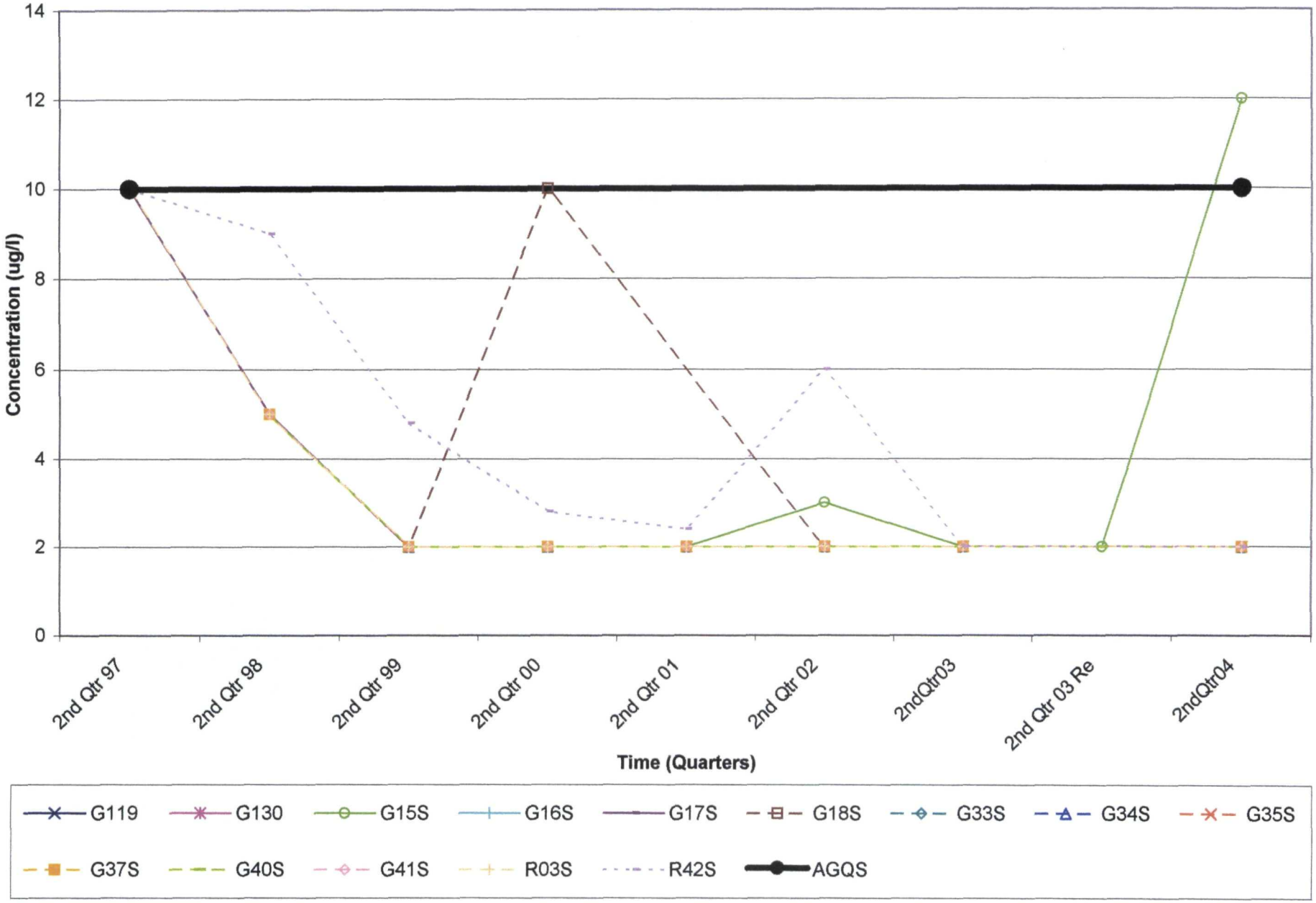
Exceedence Graphs Non GMZ Parameters Upper Sand
Carbon Disulfide

Winnebago Reclamation - Upper Zone Wells
Chemical Oxygen Demand



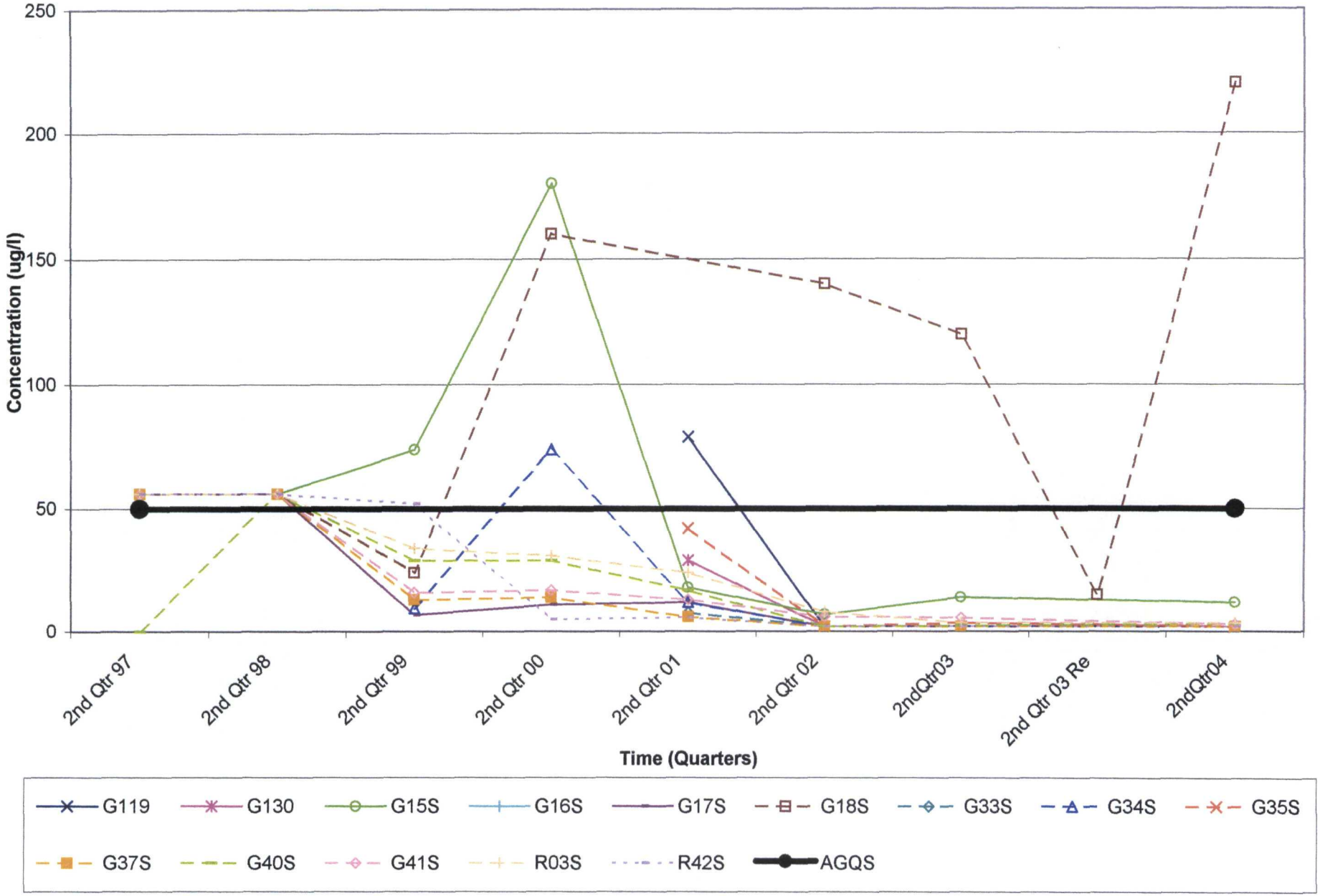
Exceedence Graphs Non GMZ Parameters Upper Sand
COD

Winnebago Reclamation - Upper Zone Wells
Chloroethane



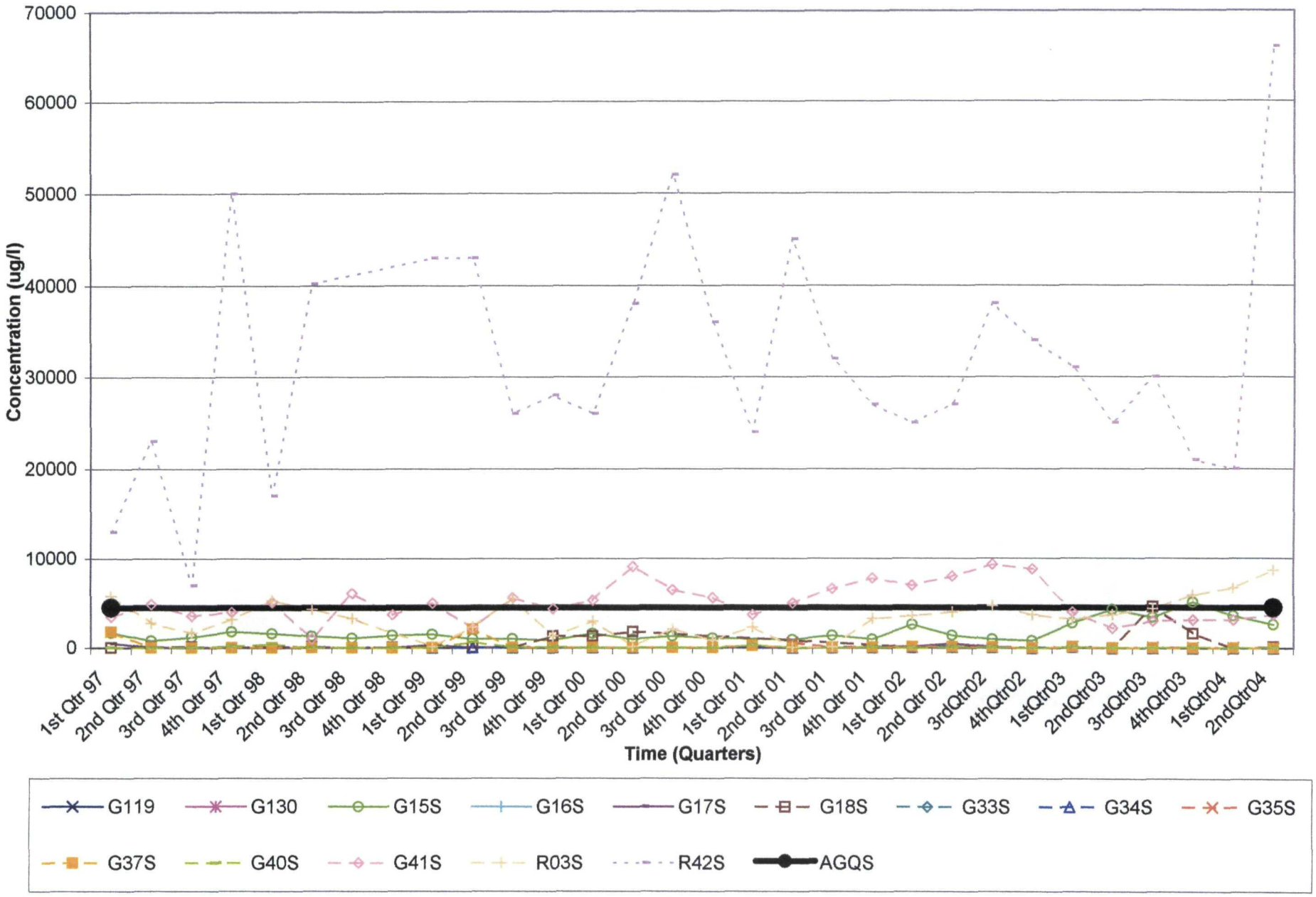
Exceedence Graphs Non GMZ Parameters Upper Sand
Chloroethane

Winnebago Reclamation - Upper Zone Wells
Total Cobalt



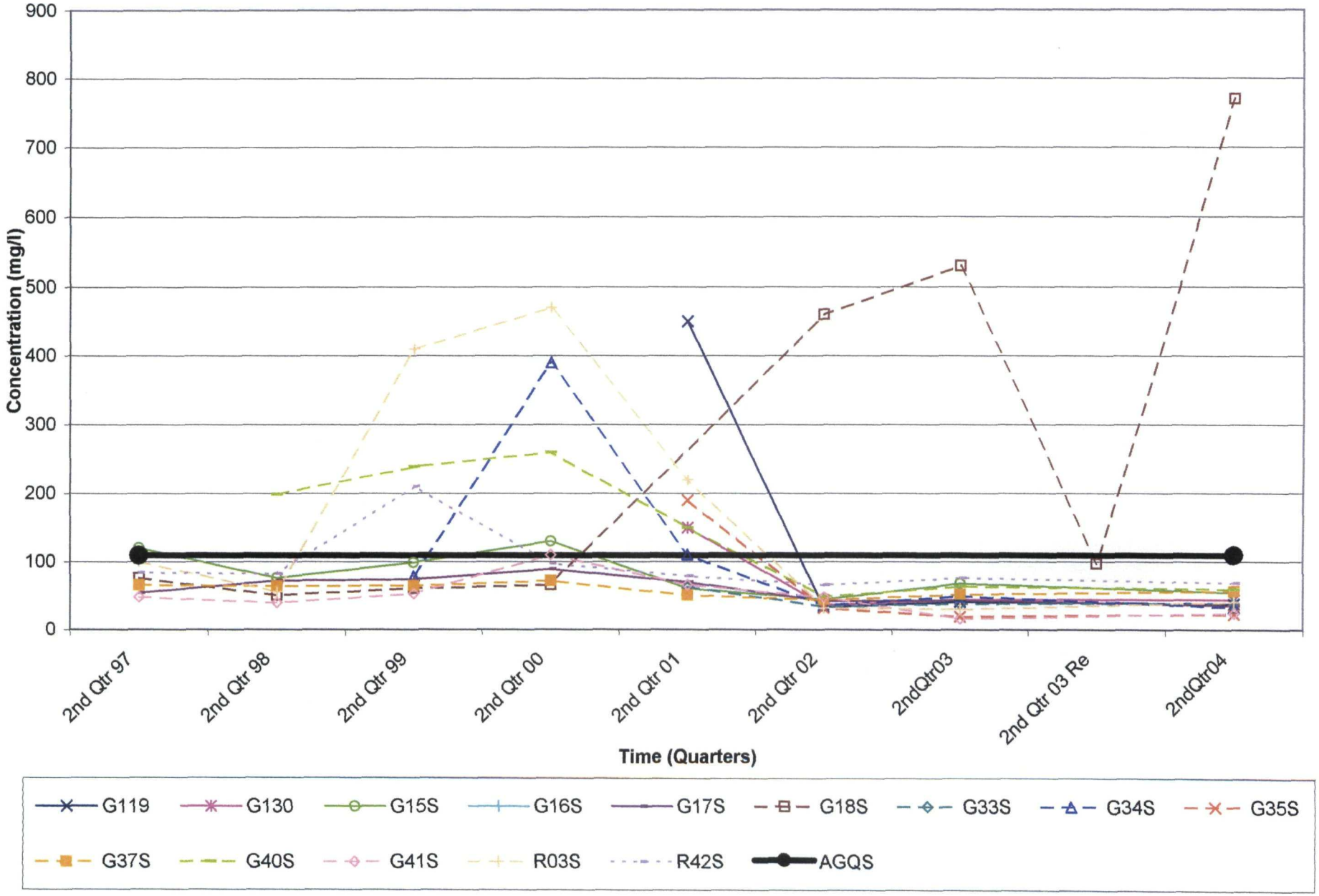
Exceedence Graphs Non GMZ Parameters Upper Sand
Co

Winnebago Reclamation - Upper Zone Wells
Dissolved Iron



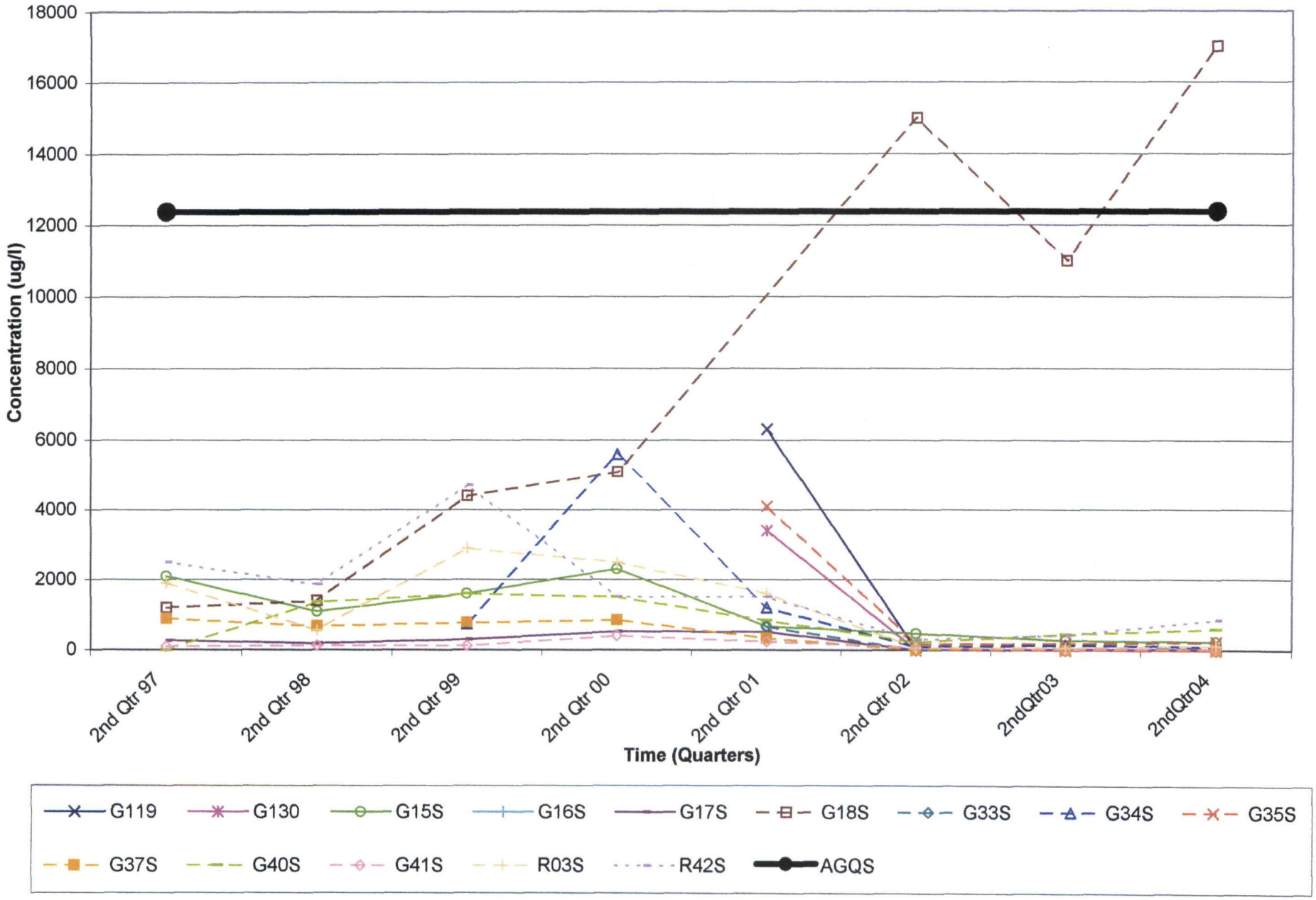
Exceedence Graphs Non GMZ Parameters Upper Sand
Fe,d

Winnebago Reclamation - Upper Zone Wells
Total Magnesium



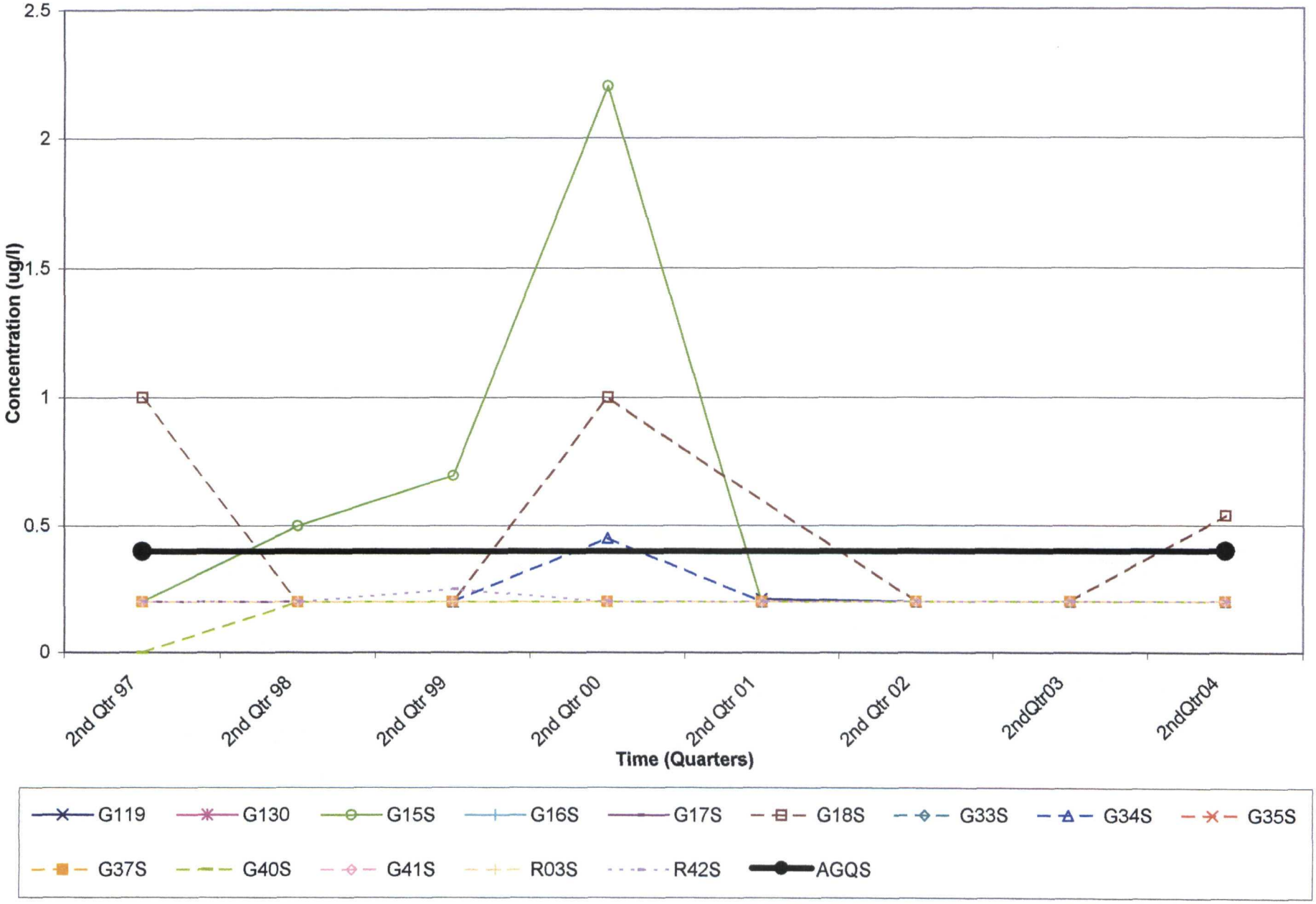
Exceedence Graphs Non GMZ Parameters Upper Sand
Mg

Winnebago Reclamation - Upper Zone Wells
Total Manganese



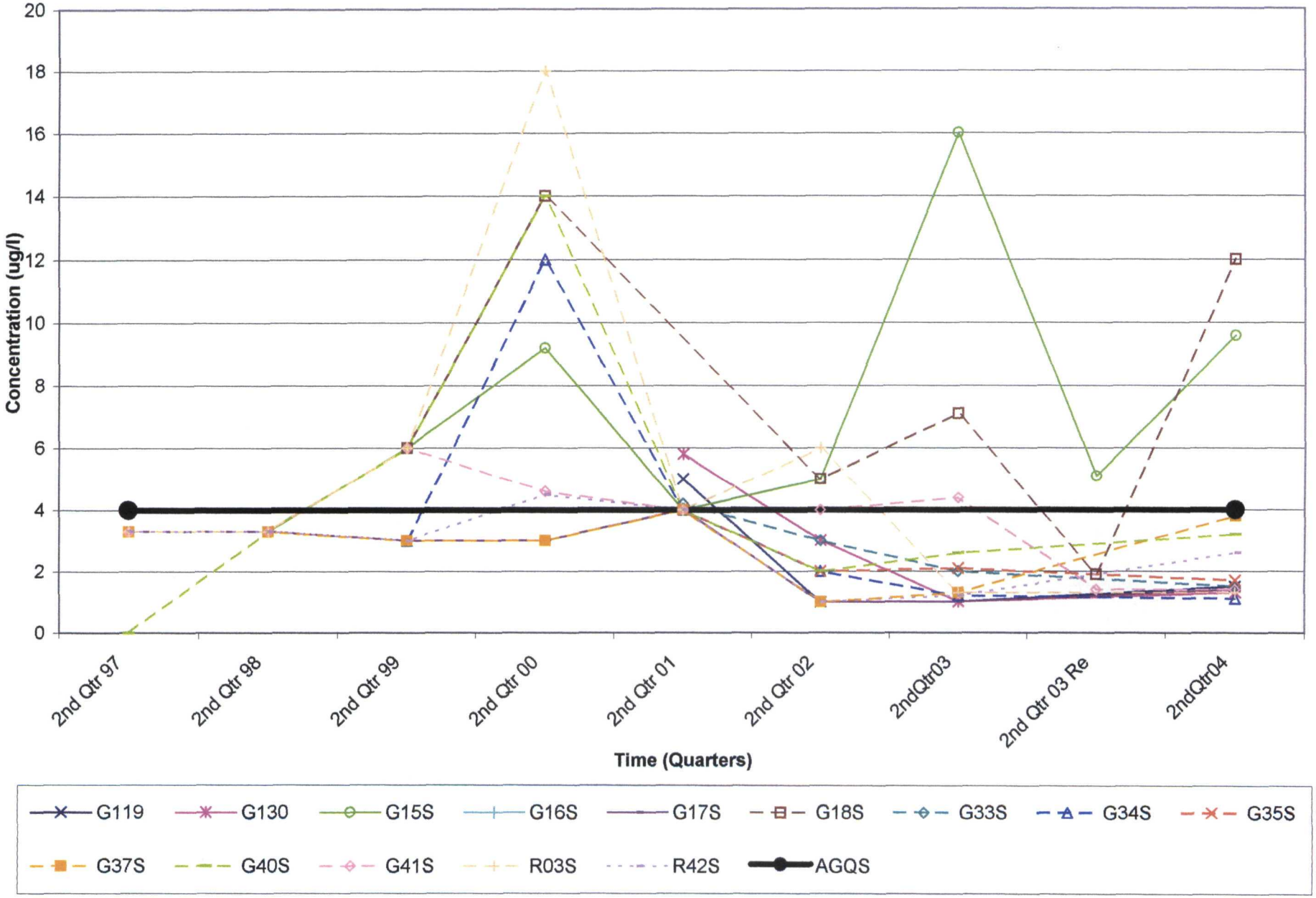
Exceedence Graphs Non GMZ Parameters Upper Sand
Mn

Winnebago Reclamation - Upper Zone Wells
Total Mercury



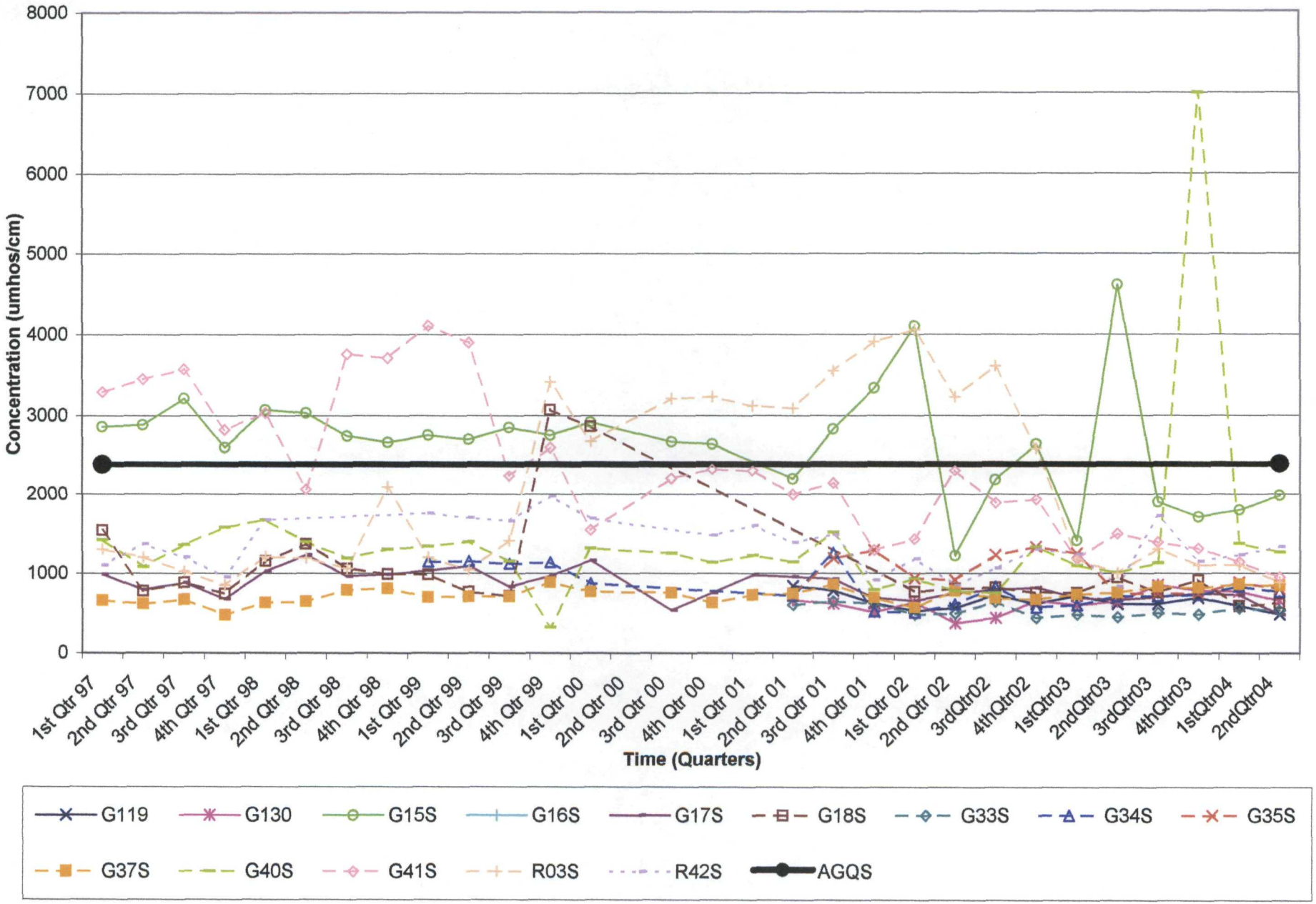
Exceedence Graphs Non GMZ Parameters Upper Sand
Hg

Winnebago Reclamation - Upper Zone Wells
Total Selenium



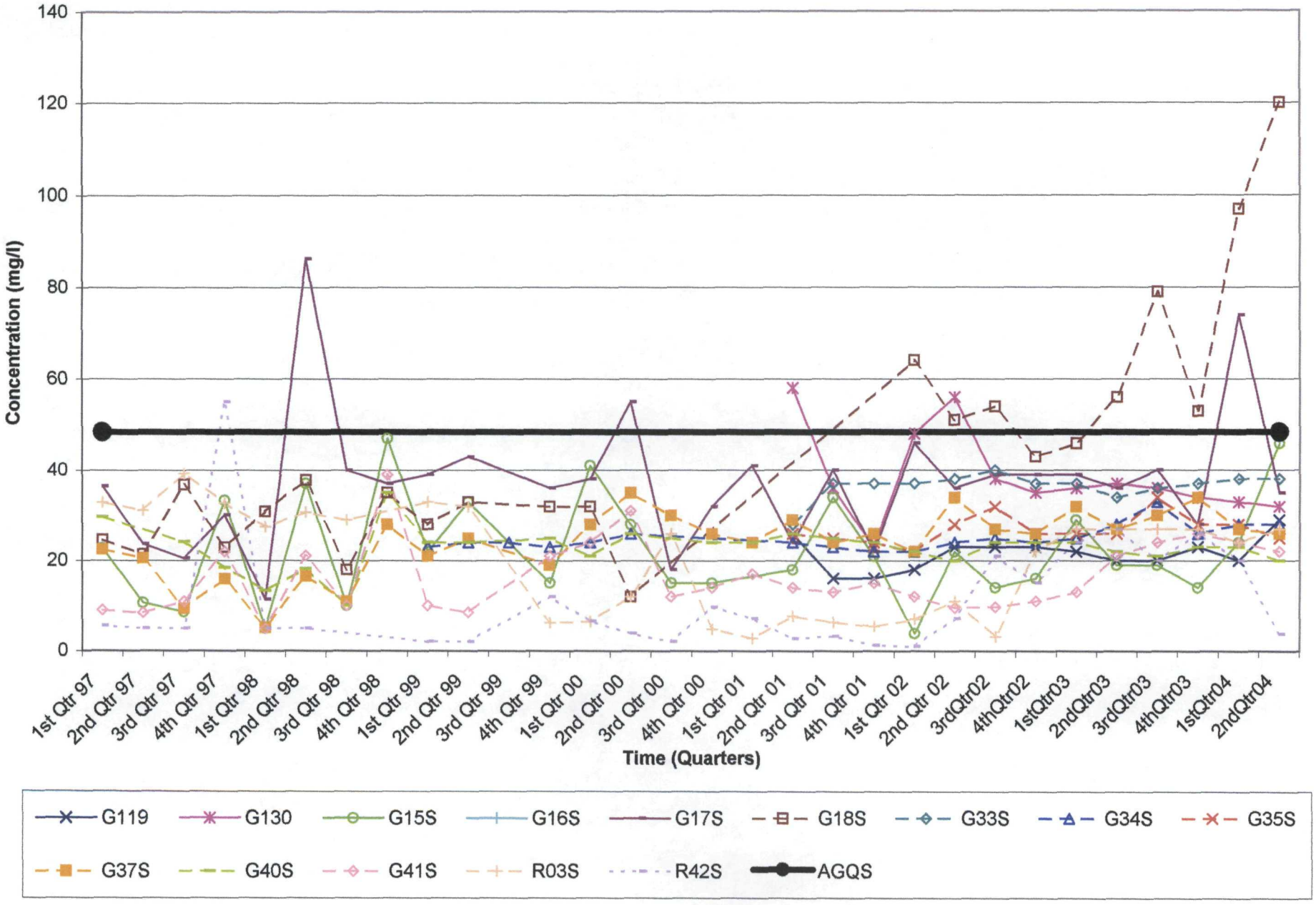
Exceedence Graphs Non GMZ Parameters Upper Sand
Se

Winnebago Reclamation - Upper Zone Wells
Specific Conductance



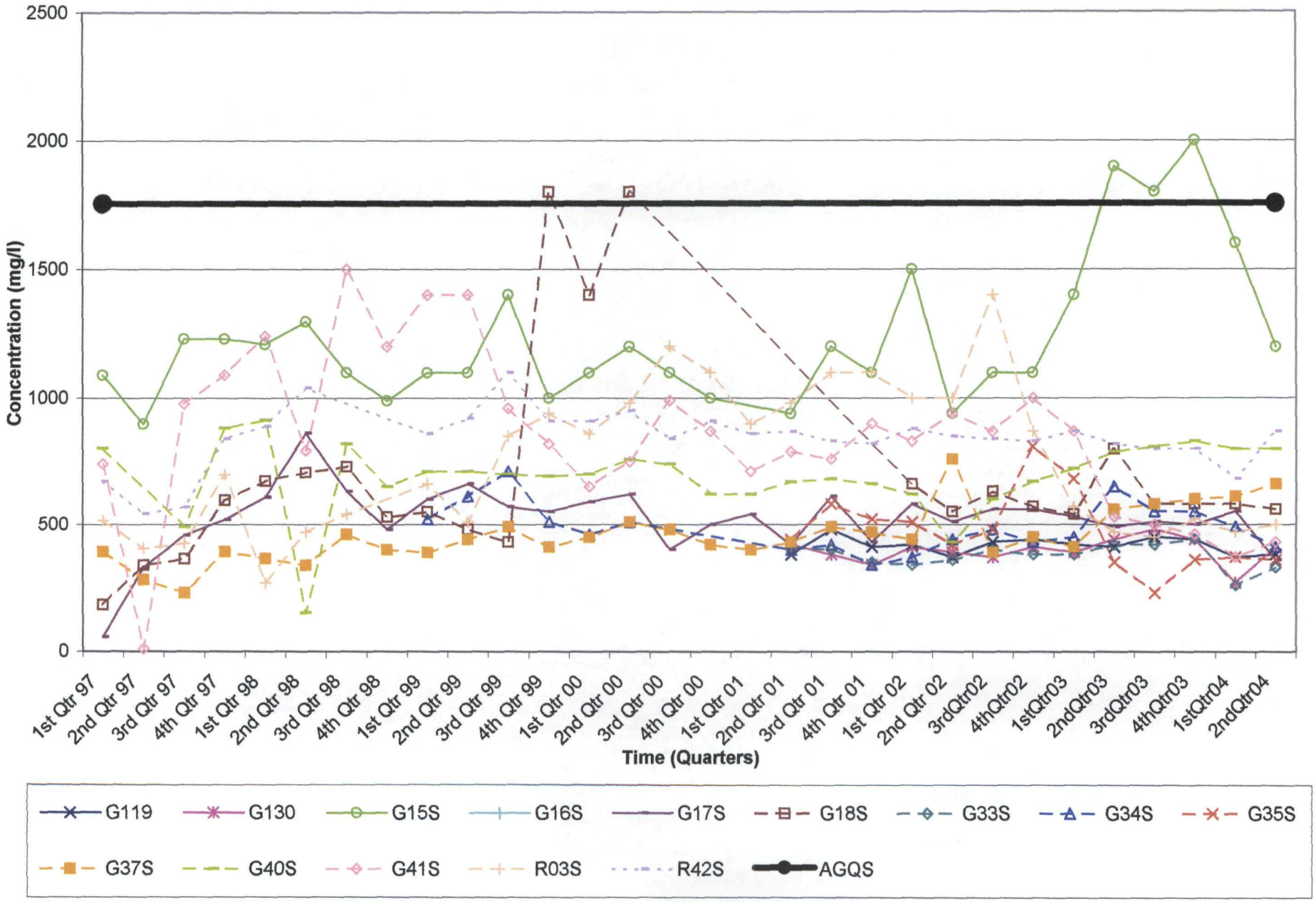
Exceedence Graphs Non GMZ Parameters Upper Sand
SC

Winnebago Reclamation - Upper Zone Wells
Dissolved Sulfate



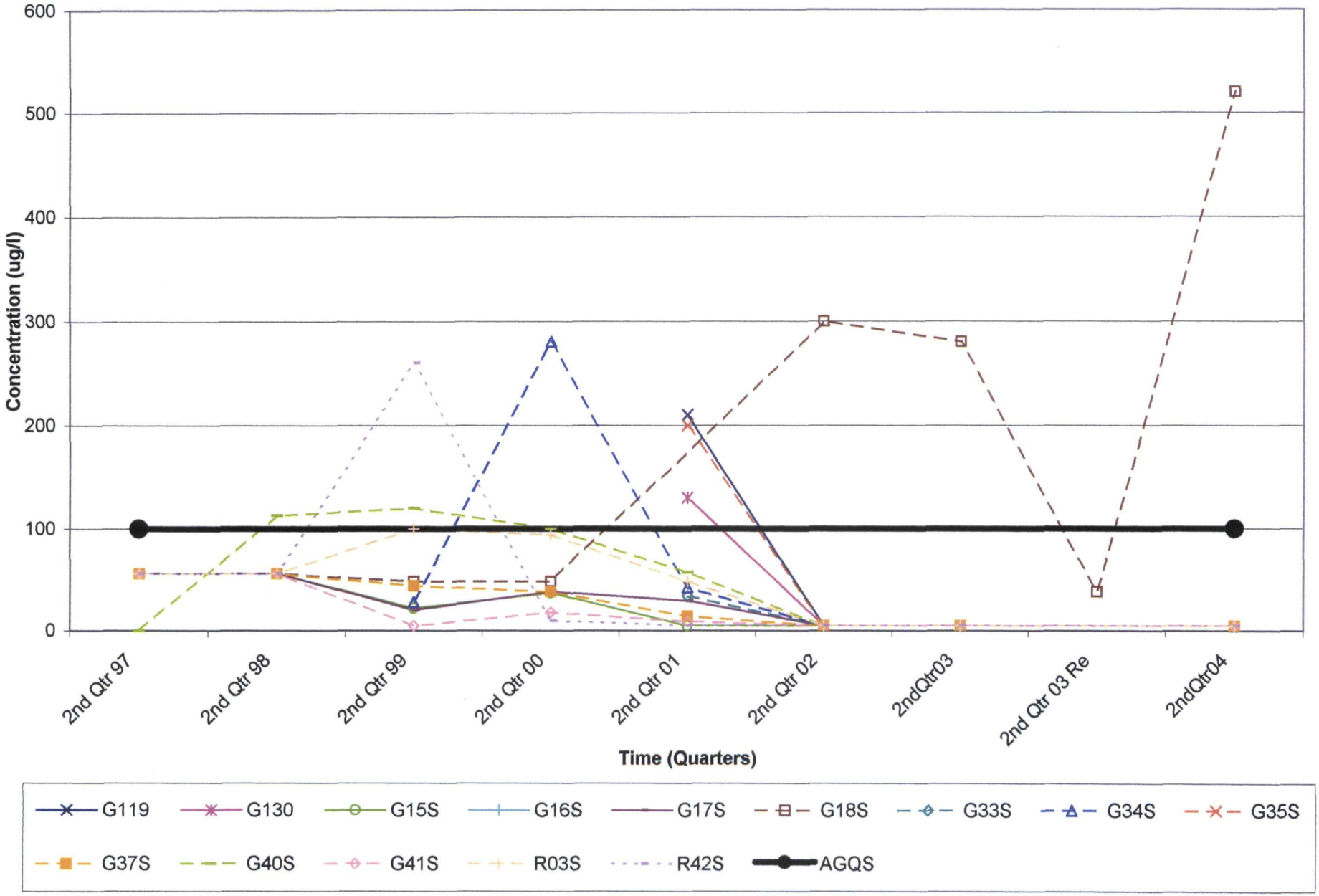
Exceedence Graphs Non GMZ Parameters Upper Sand
Sulfate,d

Winnebago Reclamation - Upper Zone Wells
Total Dissolved Solids



Exceedence Graphs Non GMZ Parameters Upper Sand
TDS

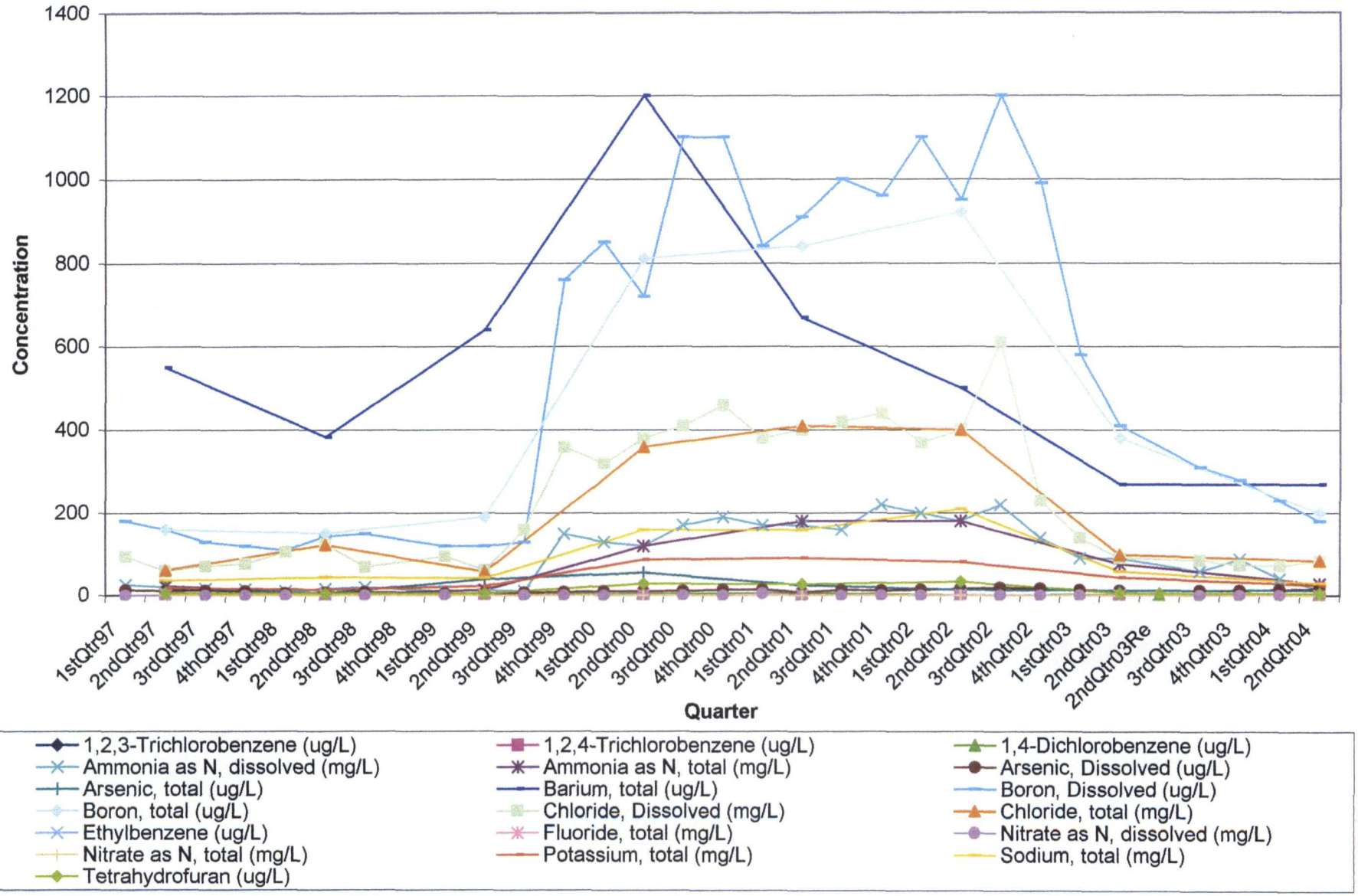
Winnebago Reclamation - Upper Zone Wells
Total Vanadium



Well Specific Trend Graphs

Winnebago Reclamation

Well R03S



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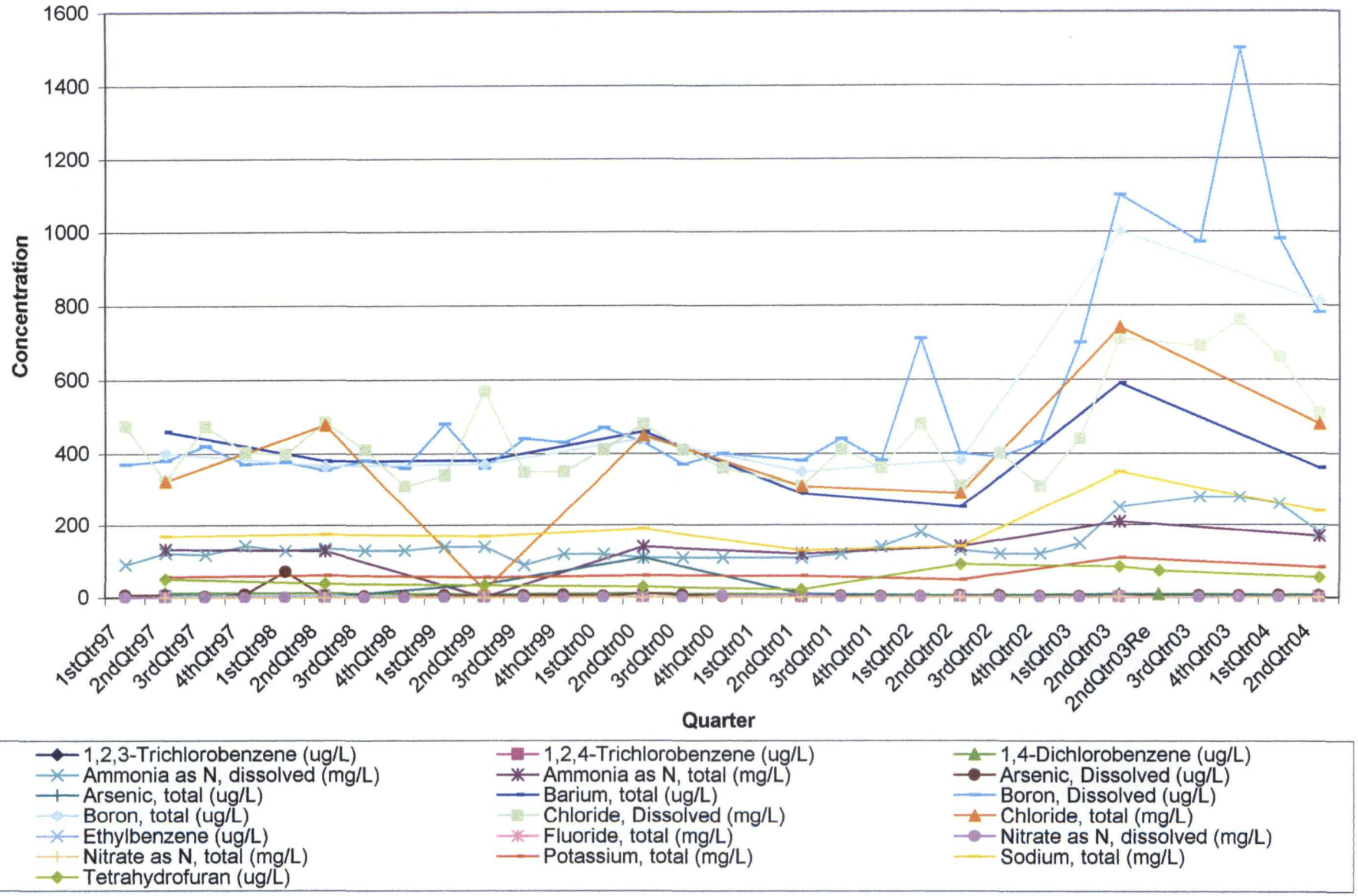
GMZ Graphs 2004 by Well 7-1-04
R03S

Winnebago Reclamation

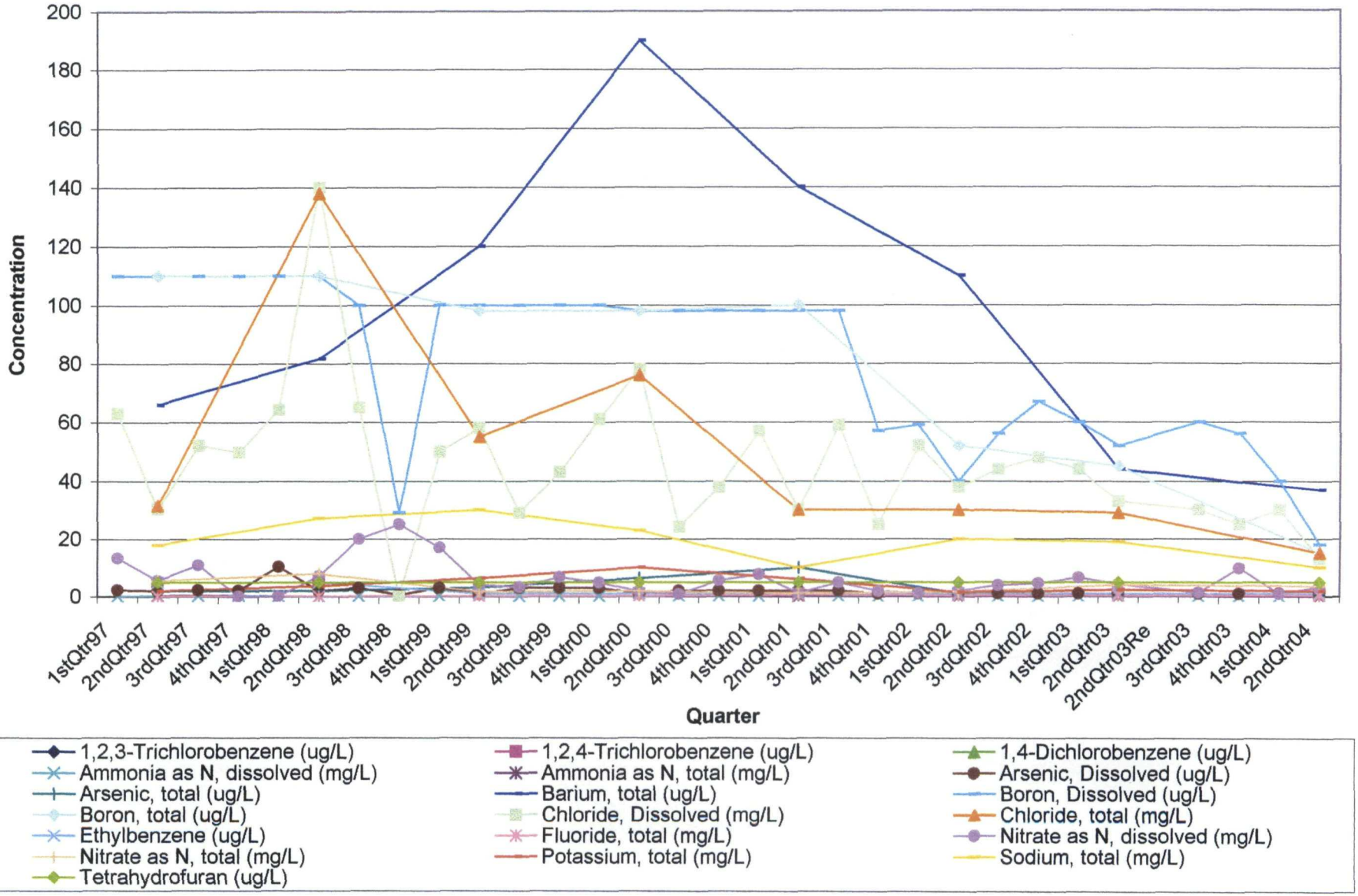
Well G15S



1,2,3-Trichlorobenzene (ug/L)	1,2,4-Trichlorobenzene (ug/L)	1,4-Dichlorobenzene (ug/L)
Ammonia as N, dissolved (mg/L)	Ammonia as N, total (mg/L)	Arsenic, Dissolved (ug/L)
Arsenic, total (ug/L)	Barium, total (ug/L)	Boron, Dissolved (ug/L)
Boron, total (ug/L)	Chloride, Dissolved (mg/L)	Chloride, total (mg/L)
Ethylbenzene (ug/L)	Fluoride, total (mg/L)	Nitrate as N, dissolved (mg/L)
Nitrate as N, total (mg/L)	Potassium, total (mg/L)	Sodium, total (mg/L)
Tetrahydrofuran (ug/L)		

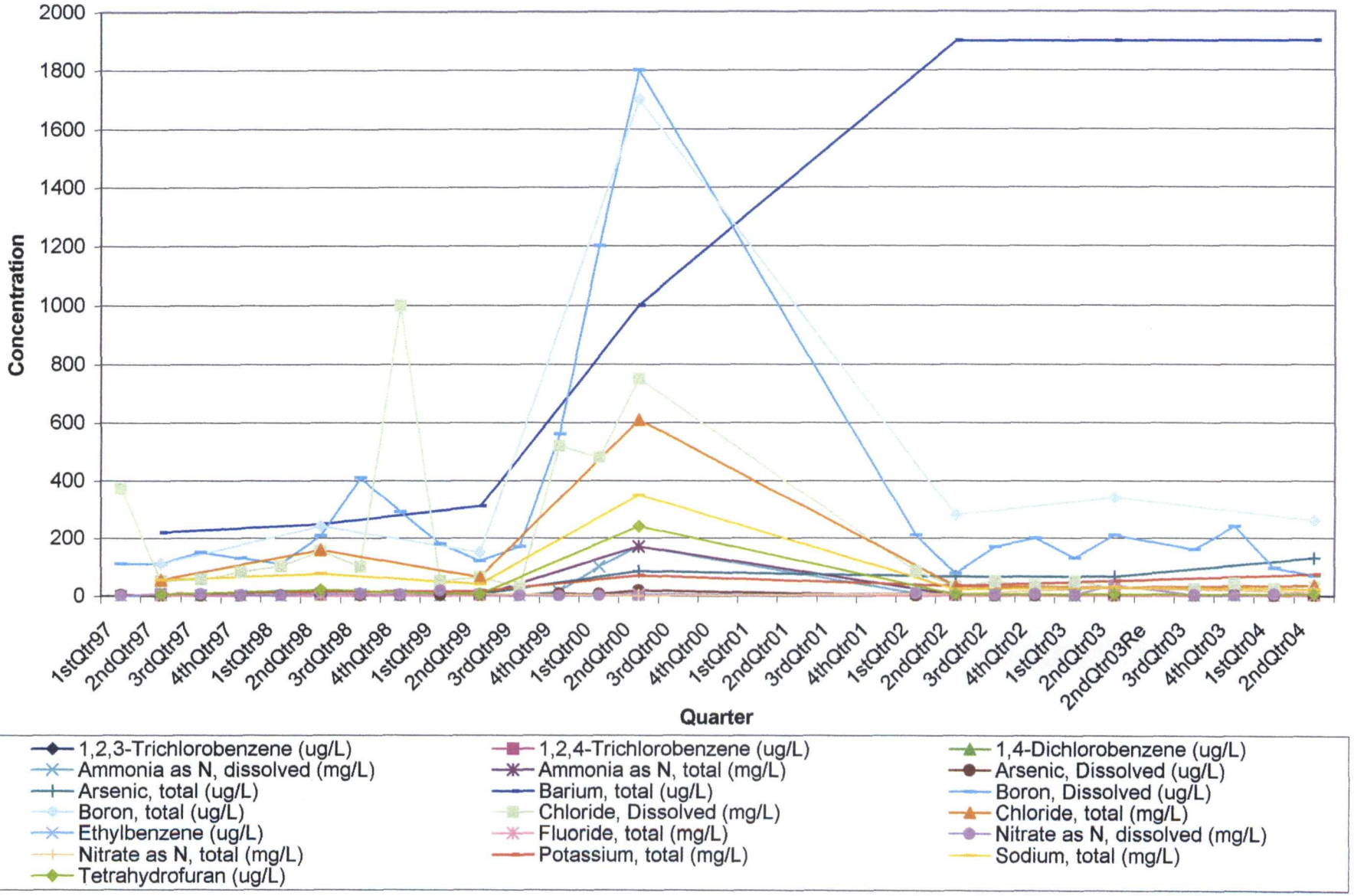
Winnebago Reclamation

Well G17S



Winnebago Reclamation

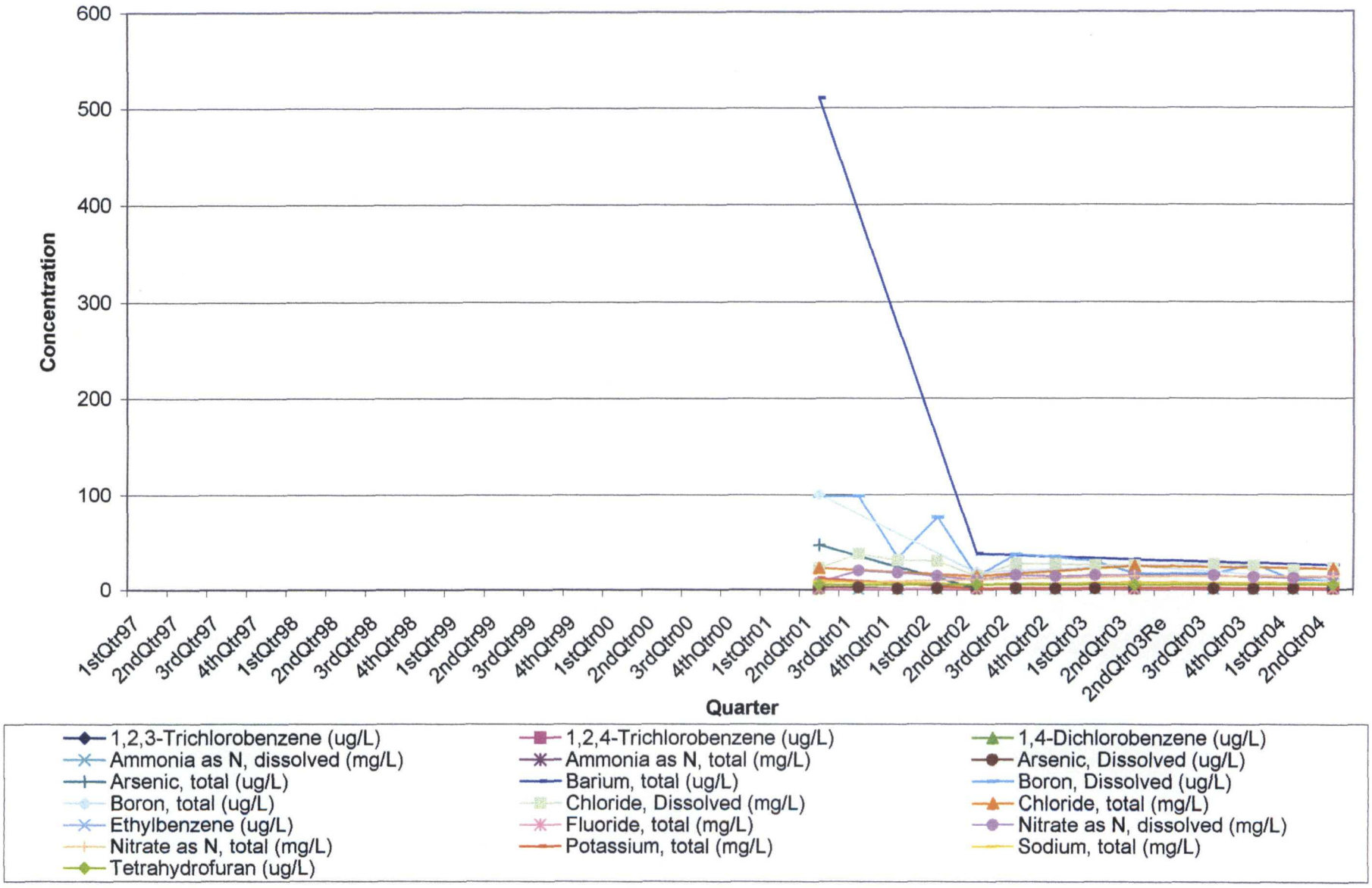
Well G18S



1,2,3-Trichlorobenzene (ug/L)	1,2,4-Trichlorobenzene (ug/L)	1,4-Dichlorobenzene (ug/L)
Ammonia as N, dissolved (mg/L)	Ammonia as N, total (mg/L)	Arsenic, Dissolved (ug/L)
Arsenic, total (ug/L)	Barium, total (ug/L)	Boron, Dissolved (ug/L)
Boron, total (ug/L)	Chloride, Dissolved (mg/L)	Chloride, total (mg/L)
Ethylbenzene (ug/L)	Fluoride, total (mg/L)	Nitrate as N, dissolved (mg/L)
Nitrate as N, total (mg/L)	Potassium, total (mg/L)	Sodium, total (mg/L)
Tetrahydrofuran (ug/L)		

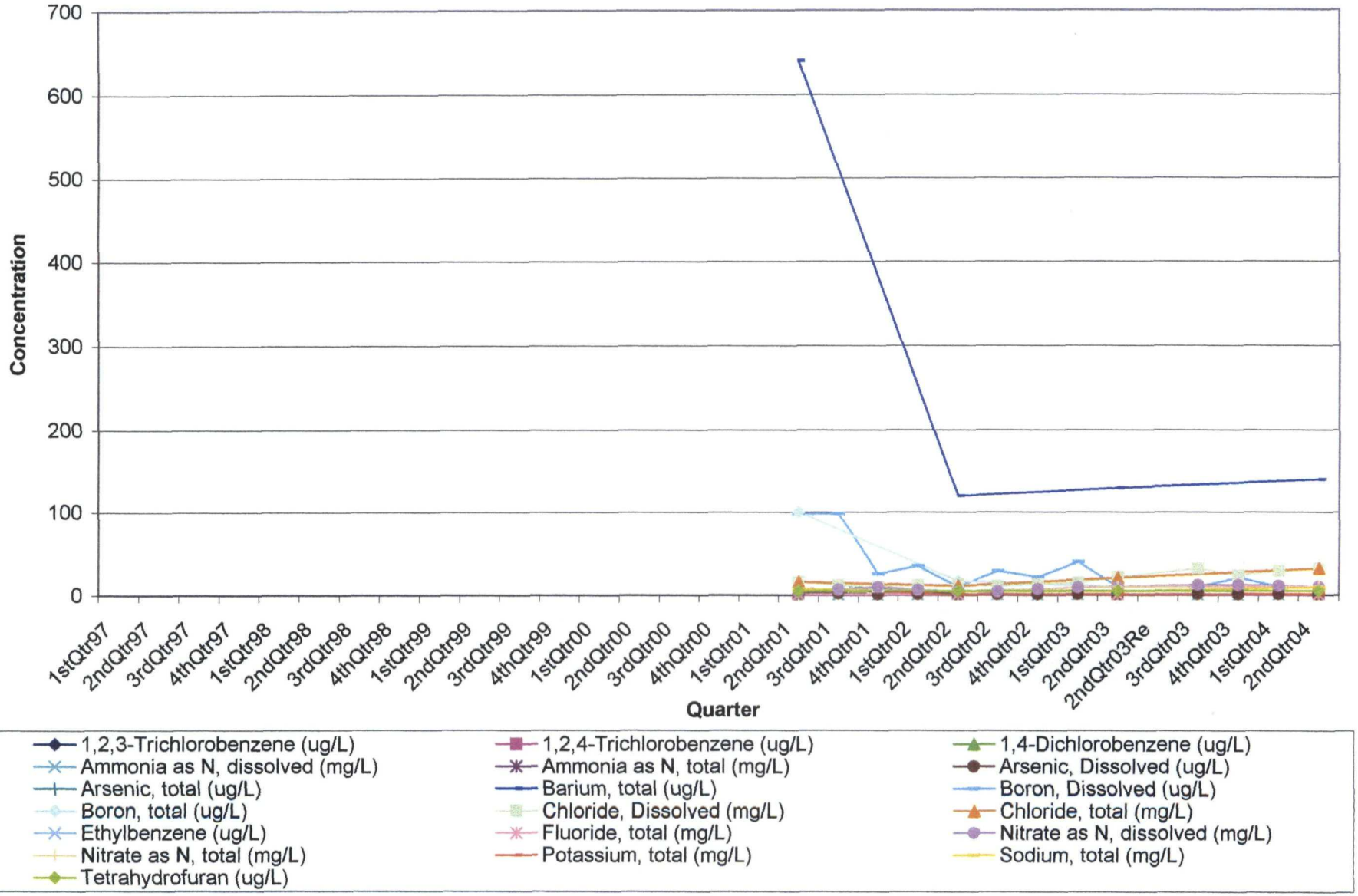
Winnebago Reclamation

Well G119



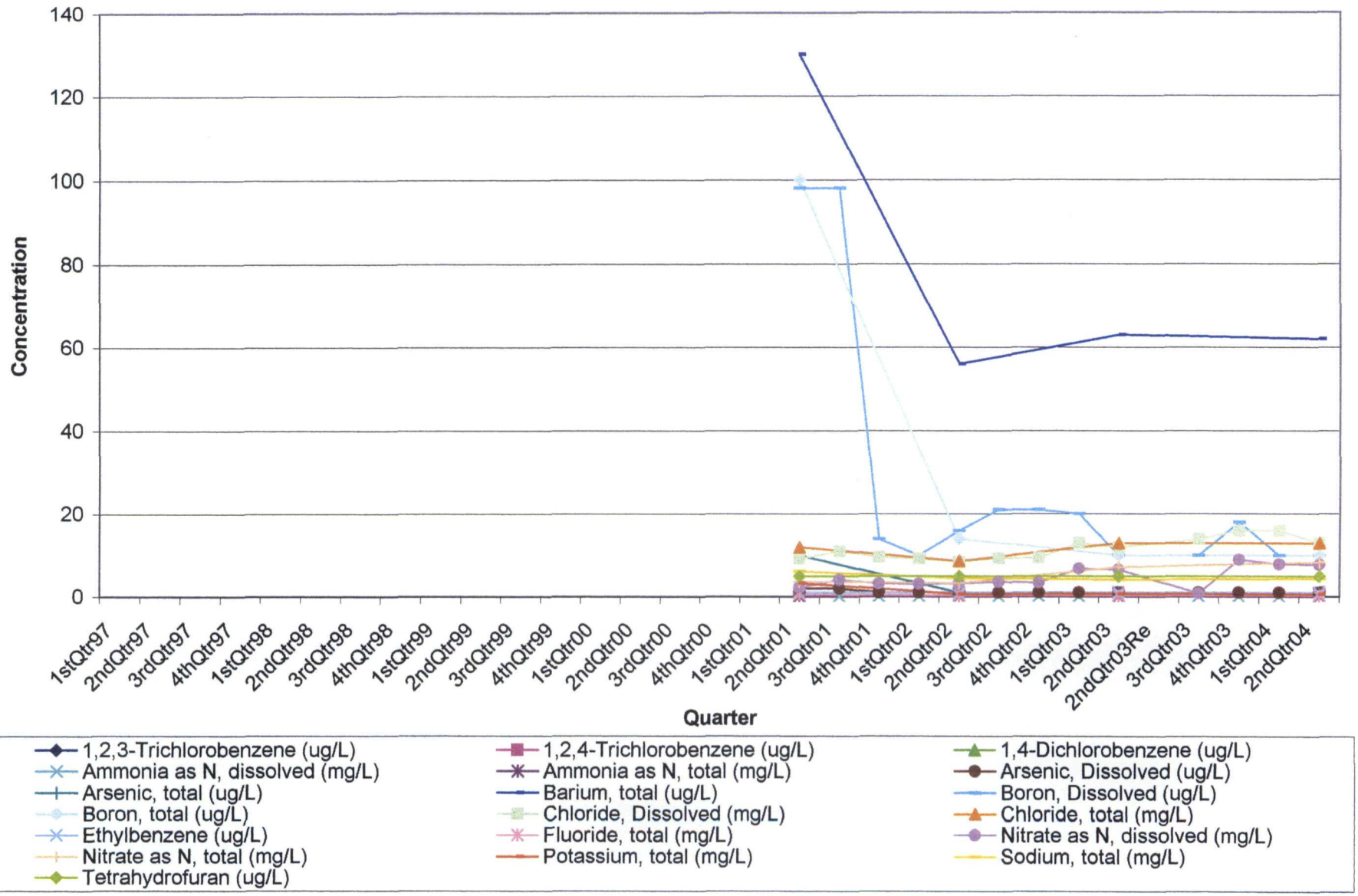
Winnebago Reclamation

Well G130



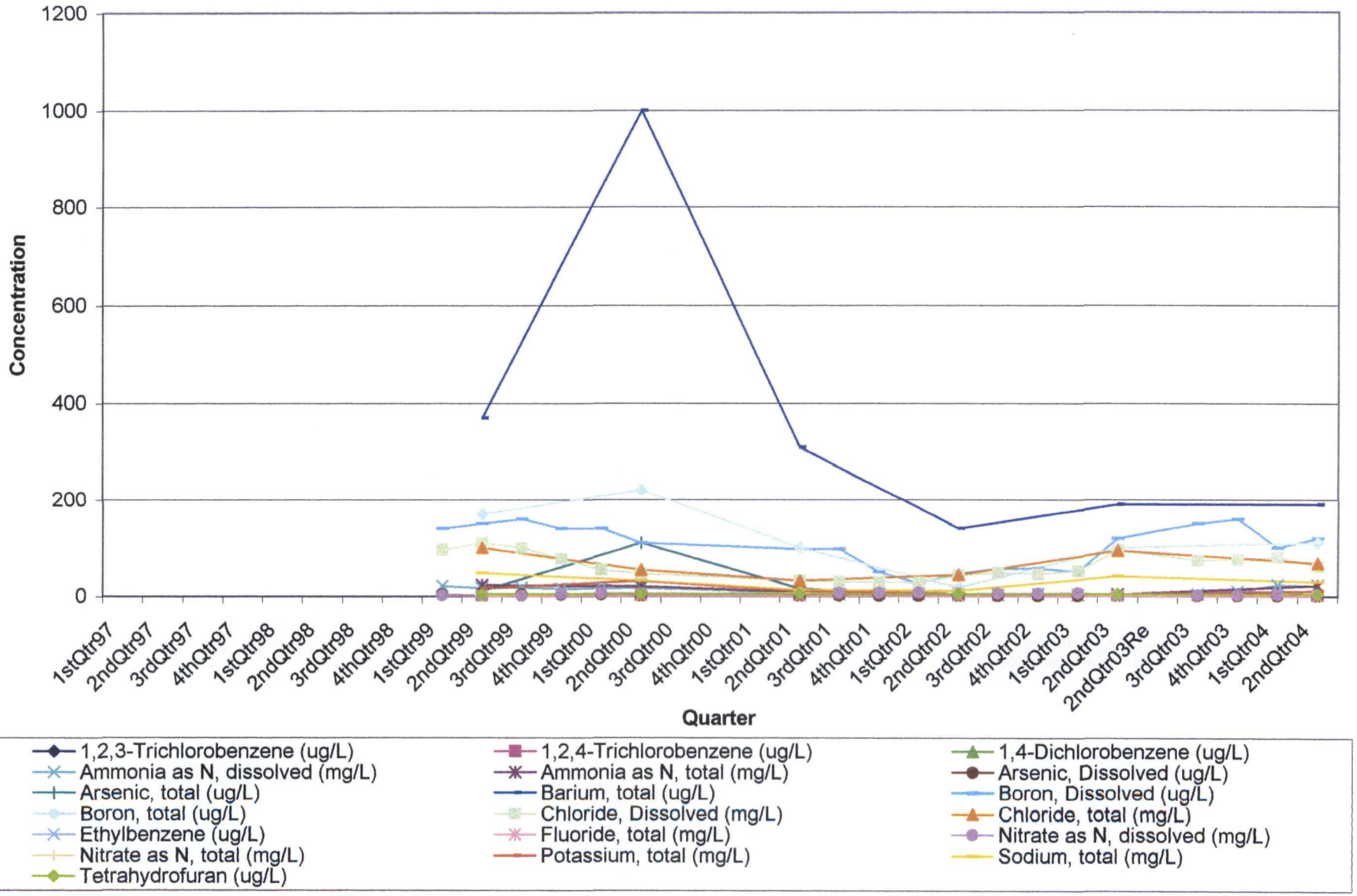
Winnebago Reclamation

Well G33S



Winnebago Reclamation

Well G34S



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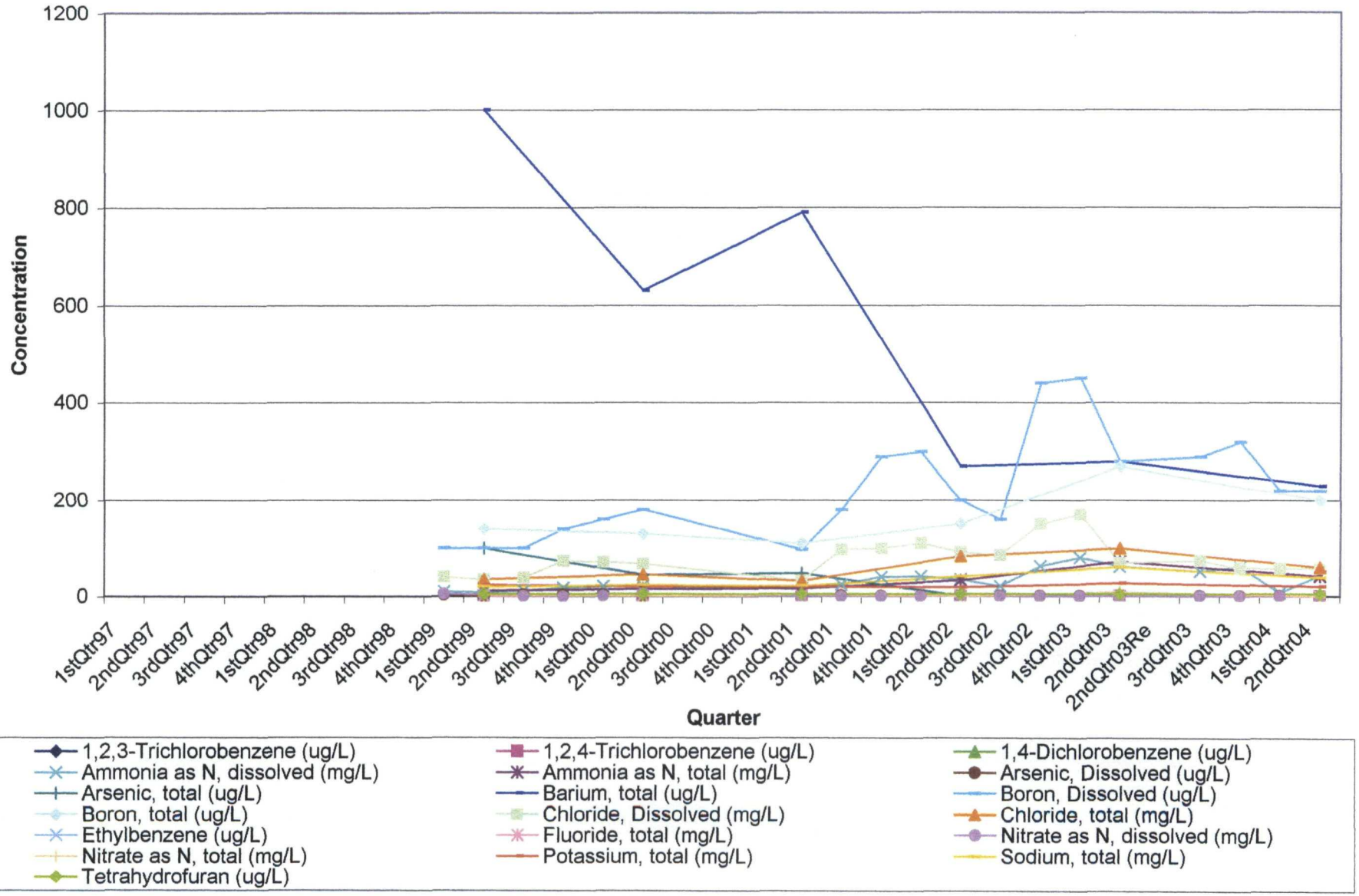
GMZ Graphs 2004 by Well 7-1-04
G34S

Winnebago Reclamation

Well G35S

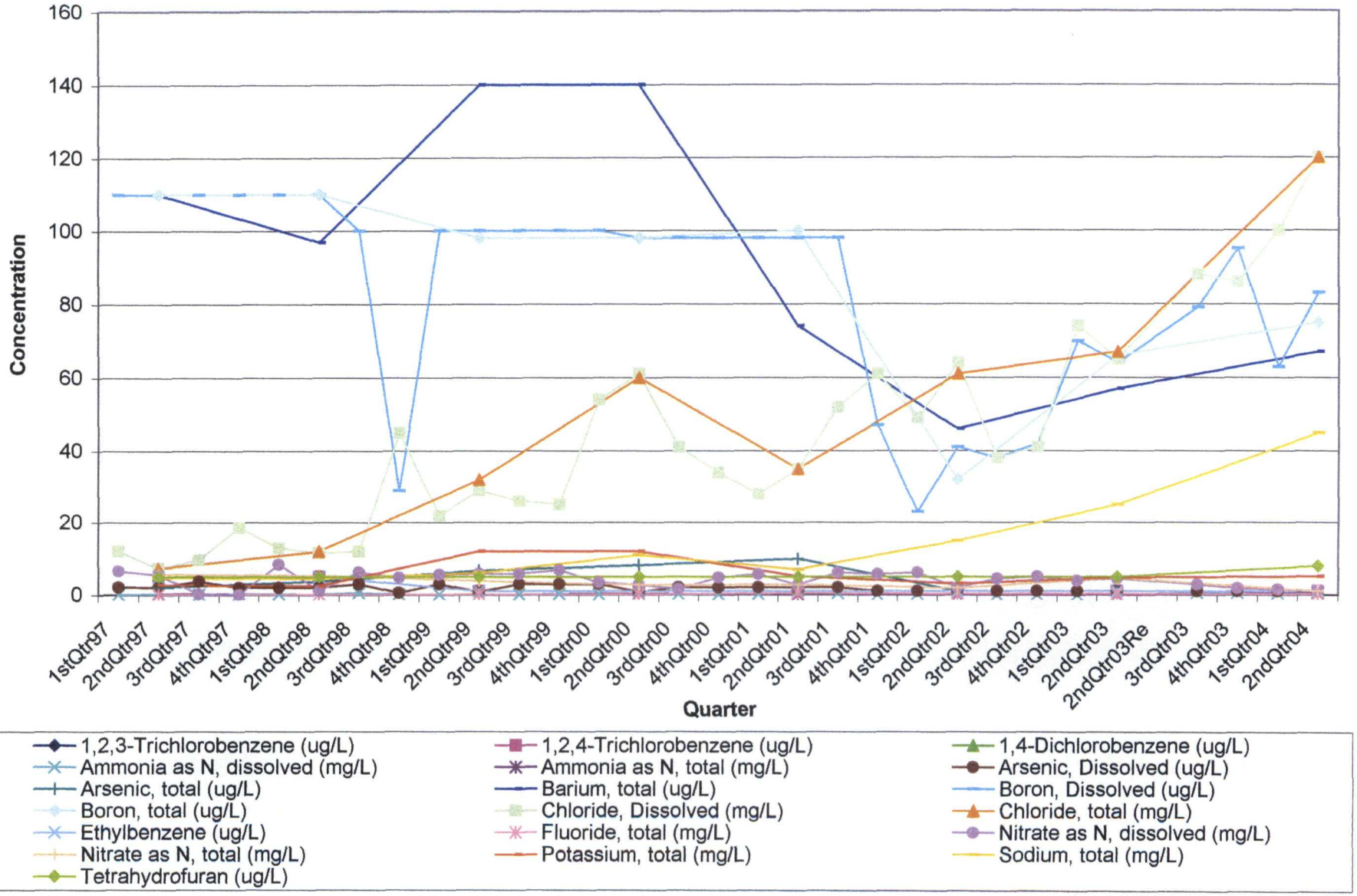


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G35S

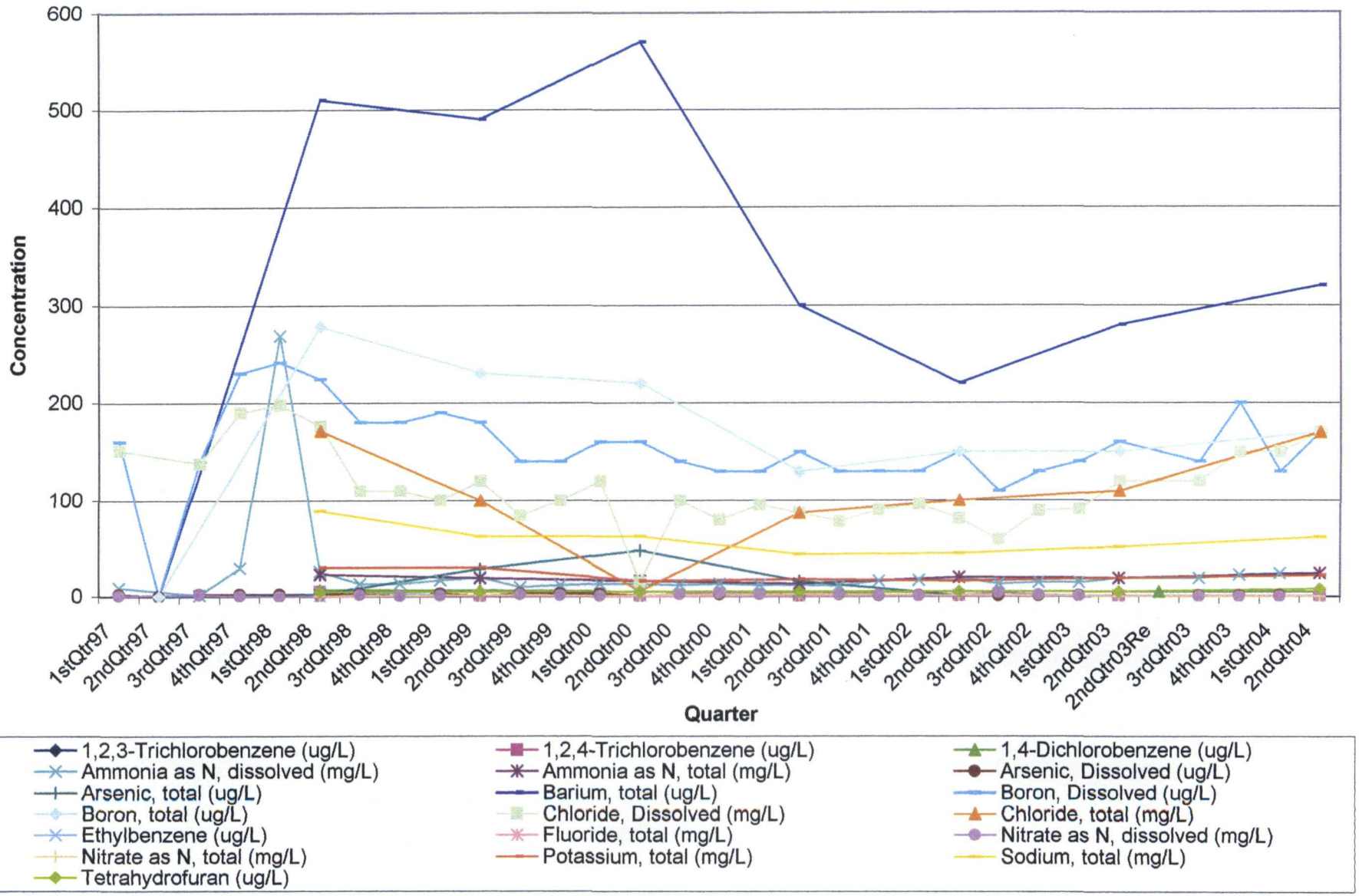
Winnebago Reclamation

Well G37S



Winnebago Reclamation

Well G40S

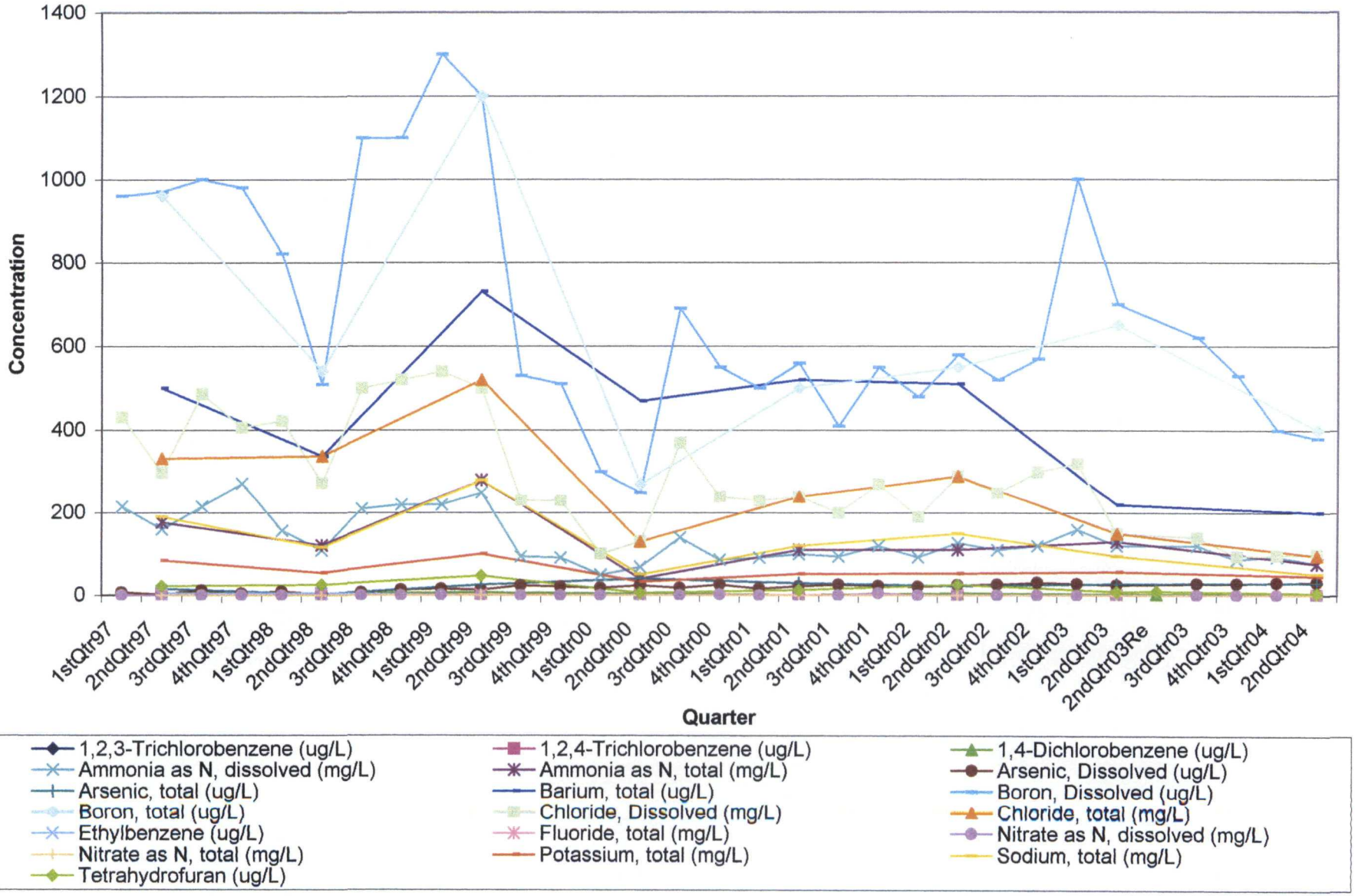


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G40S

Winnebago Reclamation

Well G41S

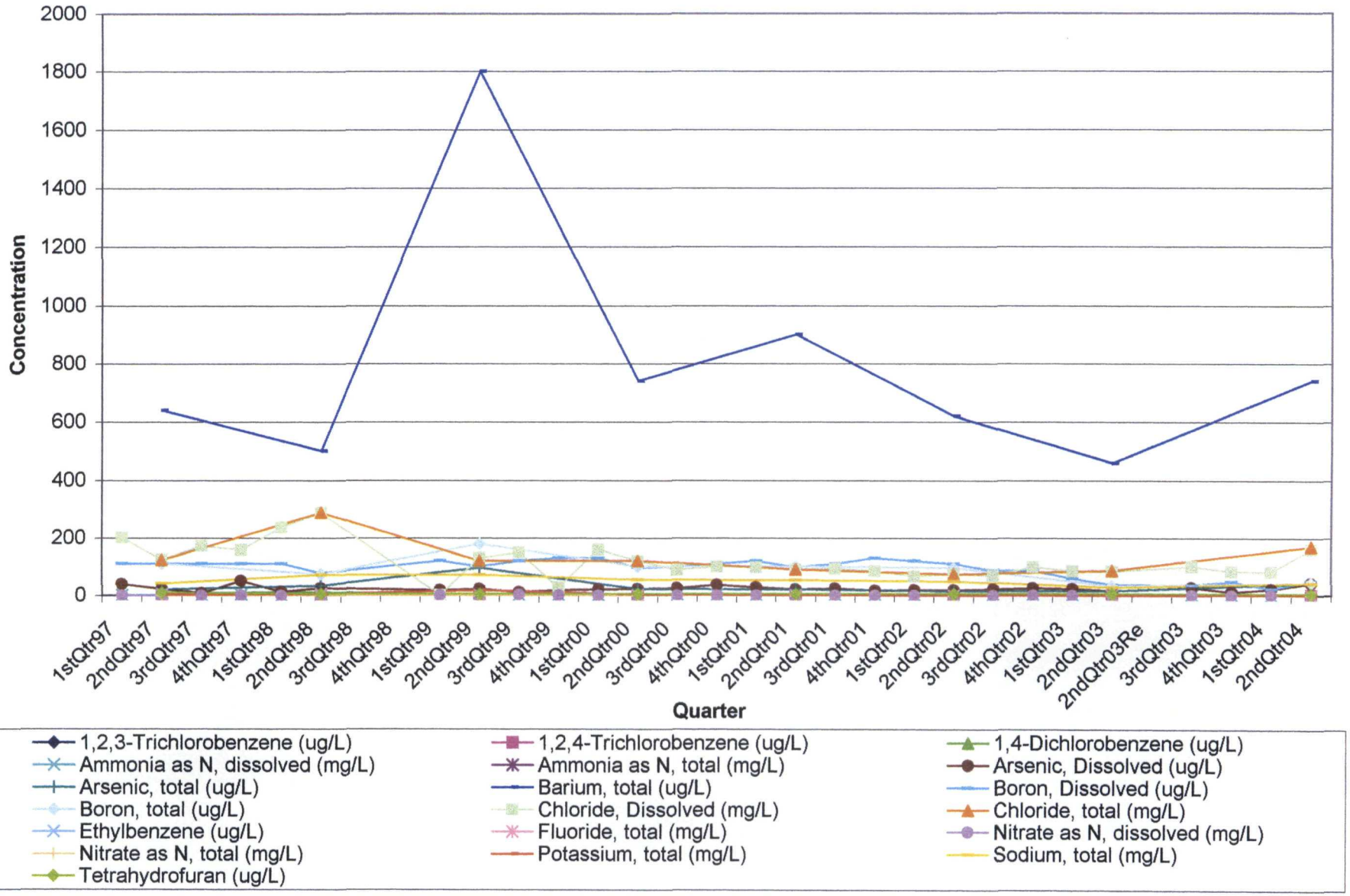


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G41S

Winnebago Reclamation

Well R42S

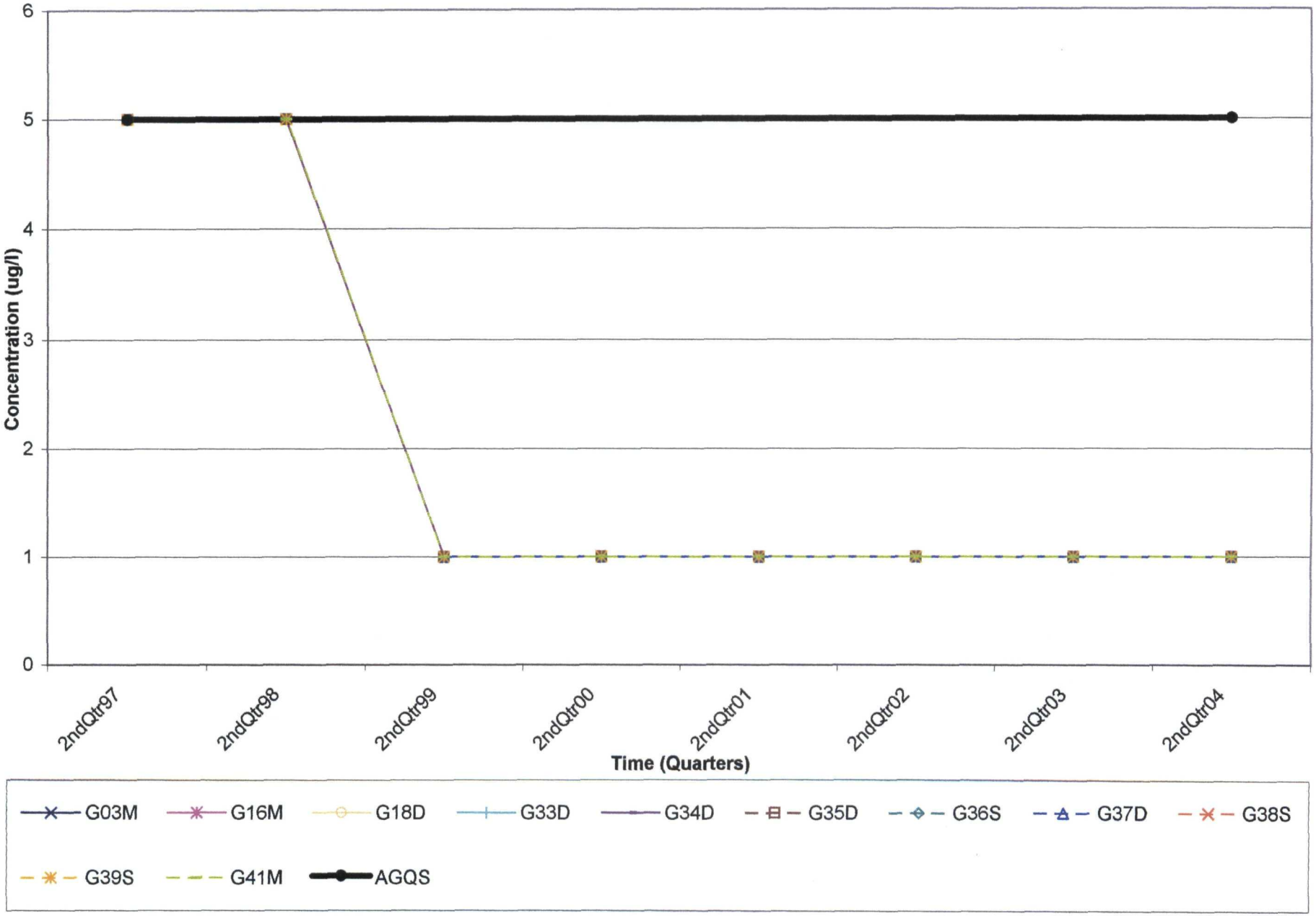


APPENDIX F

LOWER ZONE TREND GRAPHS

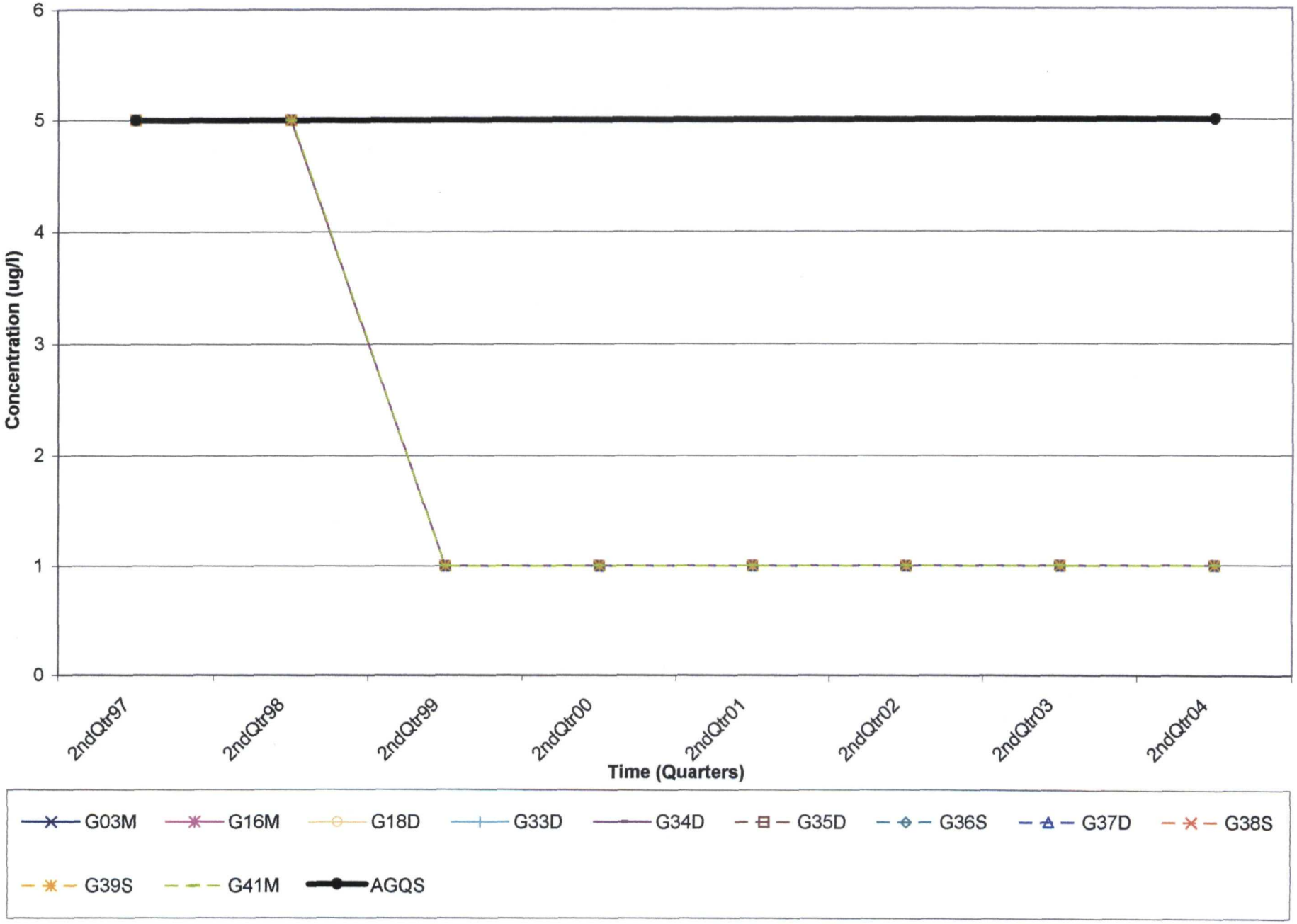
GMZ Parameter Specific Trend Graphs

Winnebago Reclamation - Lower Zone Wells
1,2,3-Trichlorobenzene



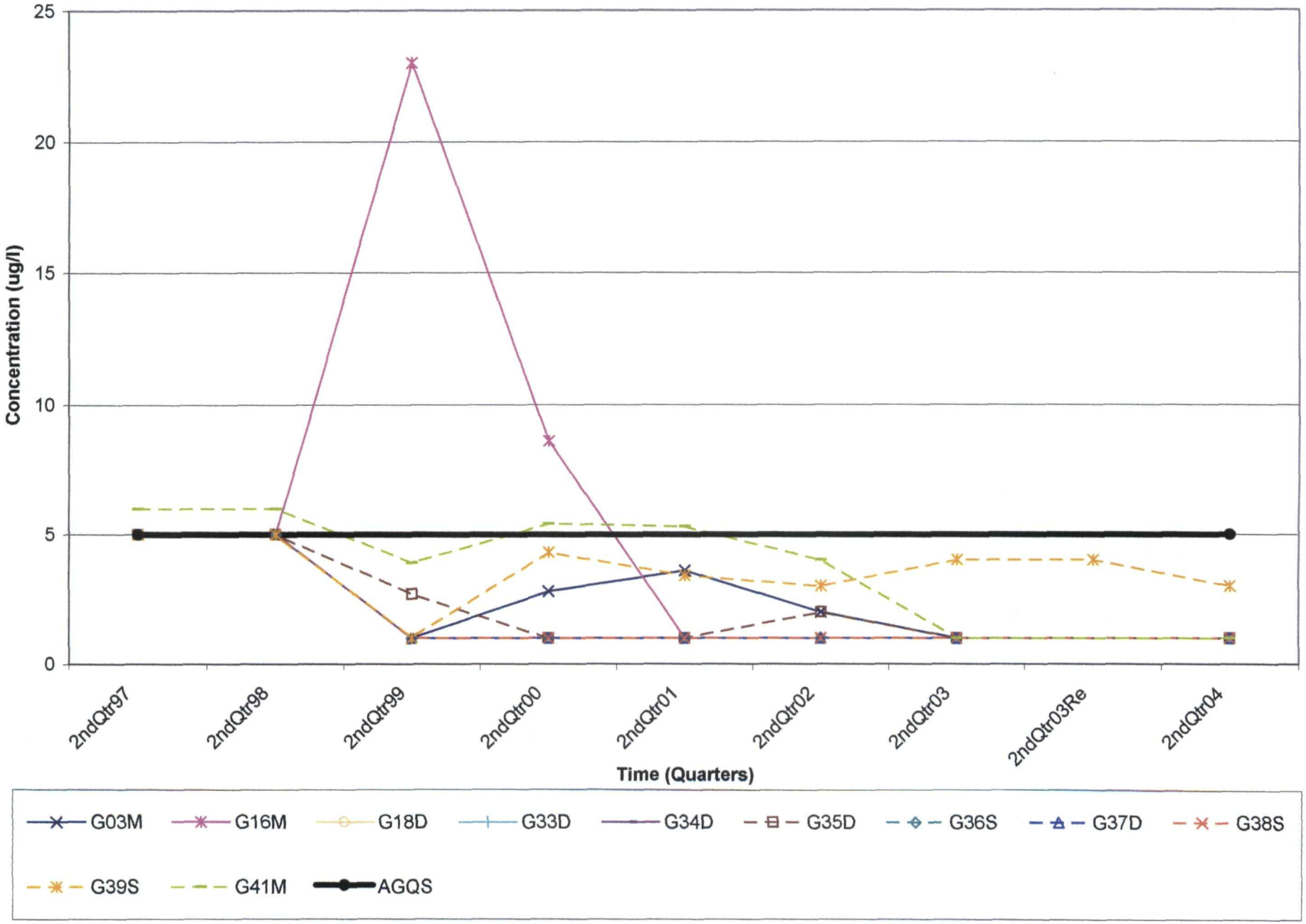
GMZ Graphs 2004 Lower Sand color
1,2,3-TCB

Winnebago Reclamation - Lower Zone Wells
1,2,4-Trichlorobenzene



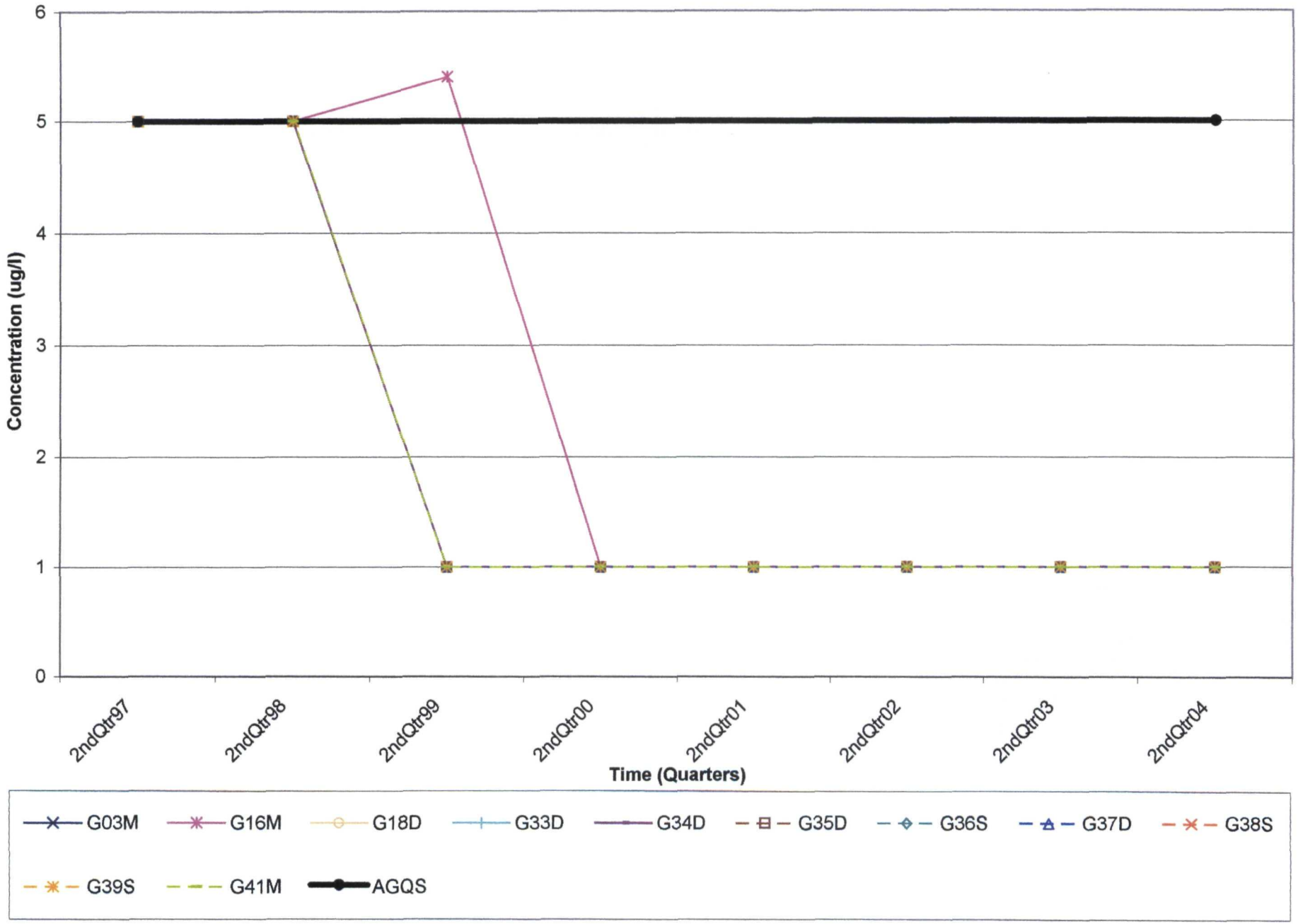
GMZ Graphs 2004 Lower Sand color
1,2,4-TCB

Winnebago Reclamation - Lower Zone Wells
1,4-Dichlorobenzene



GMZ Graphs 2004 Lower Sand color
1,4-DCB

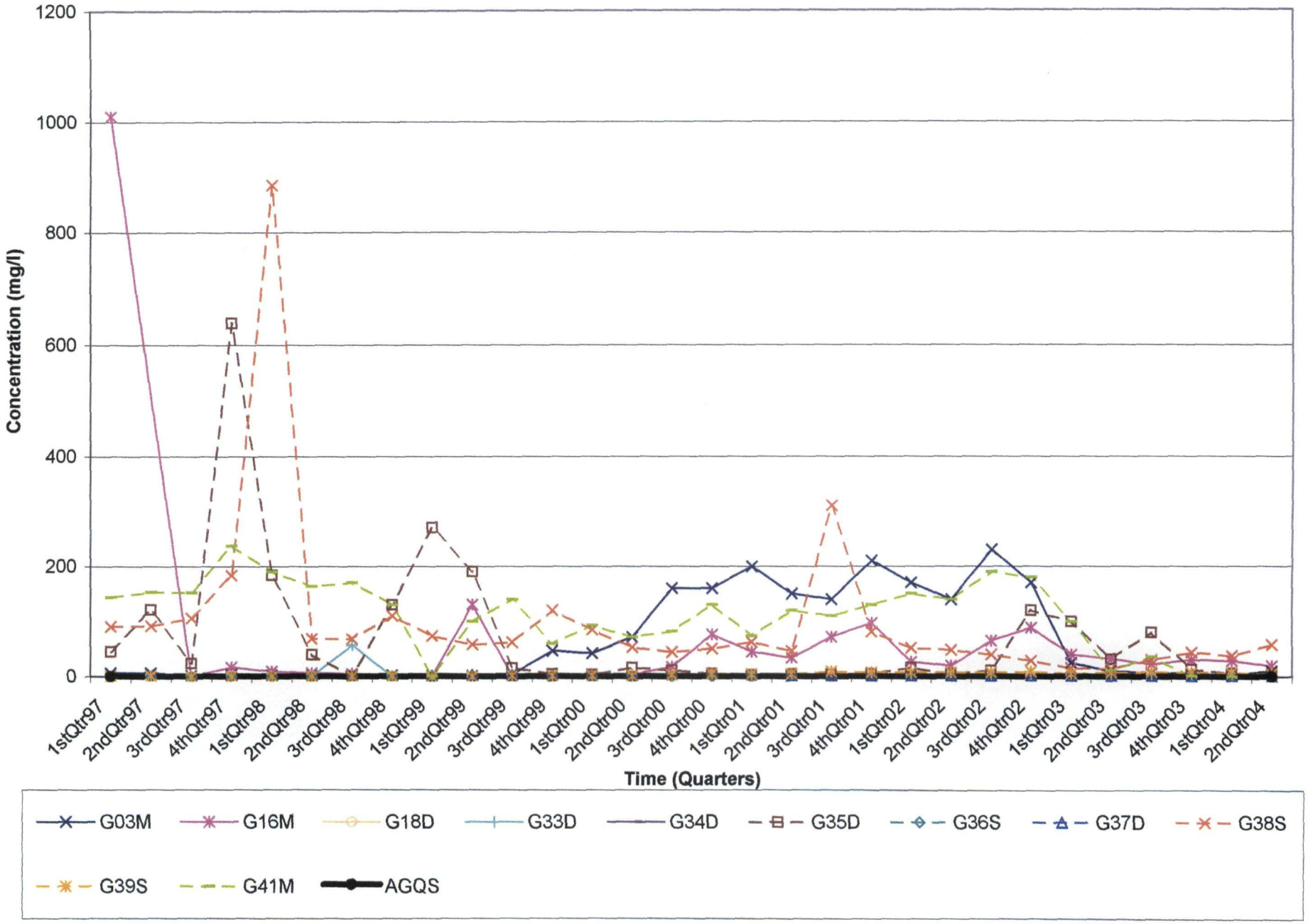
Winnebago Reclamation - Lower Zone Wells
Ethylbenzene



GMZ Graphs 2004 Lower Sand color
Ethylbenzene

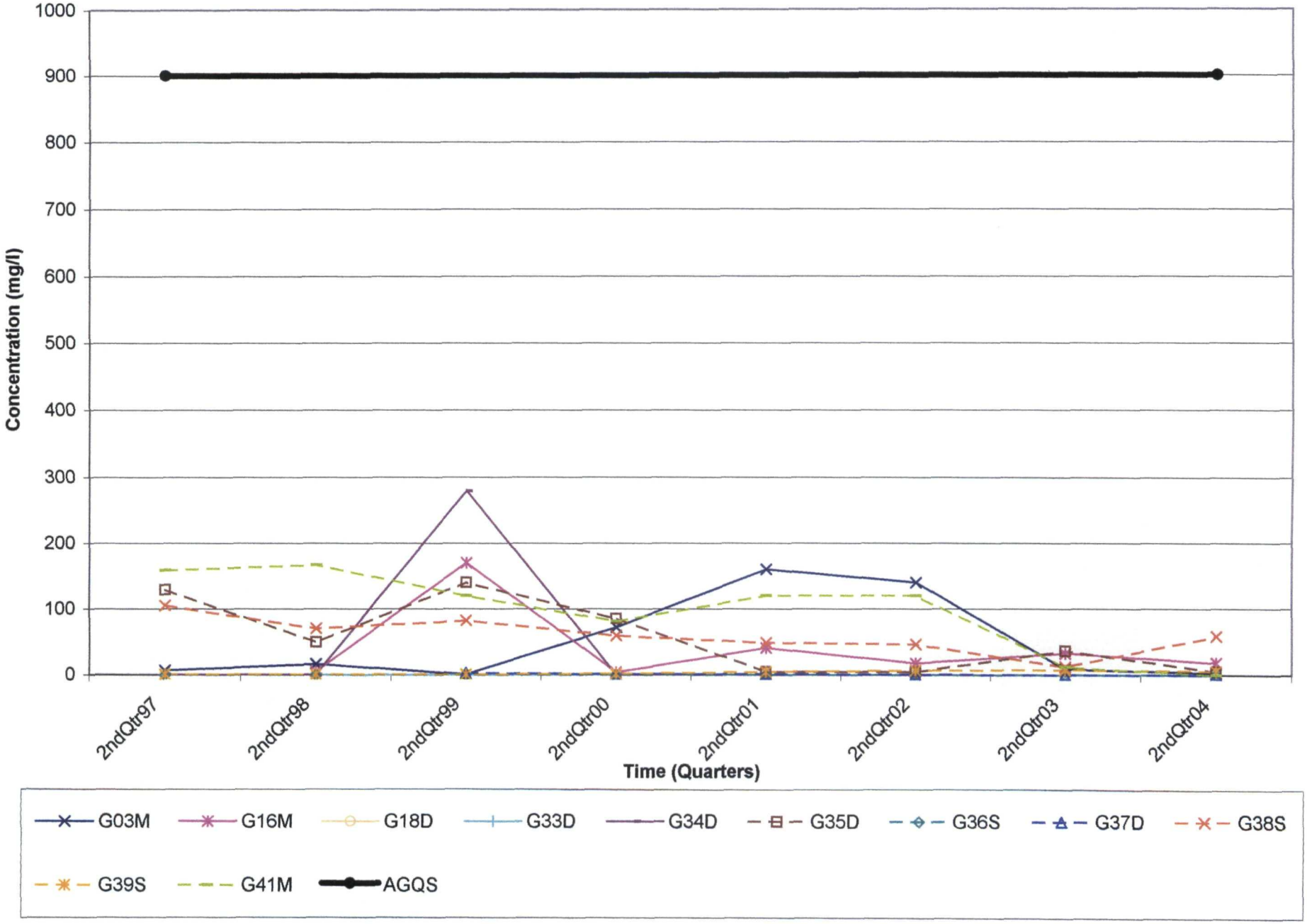
Winnebago Reclamation - Lower Zone Wells

Ammonia as N, dissolved



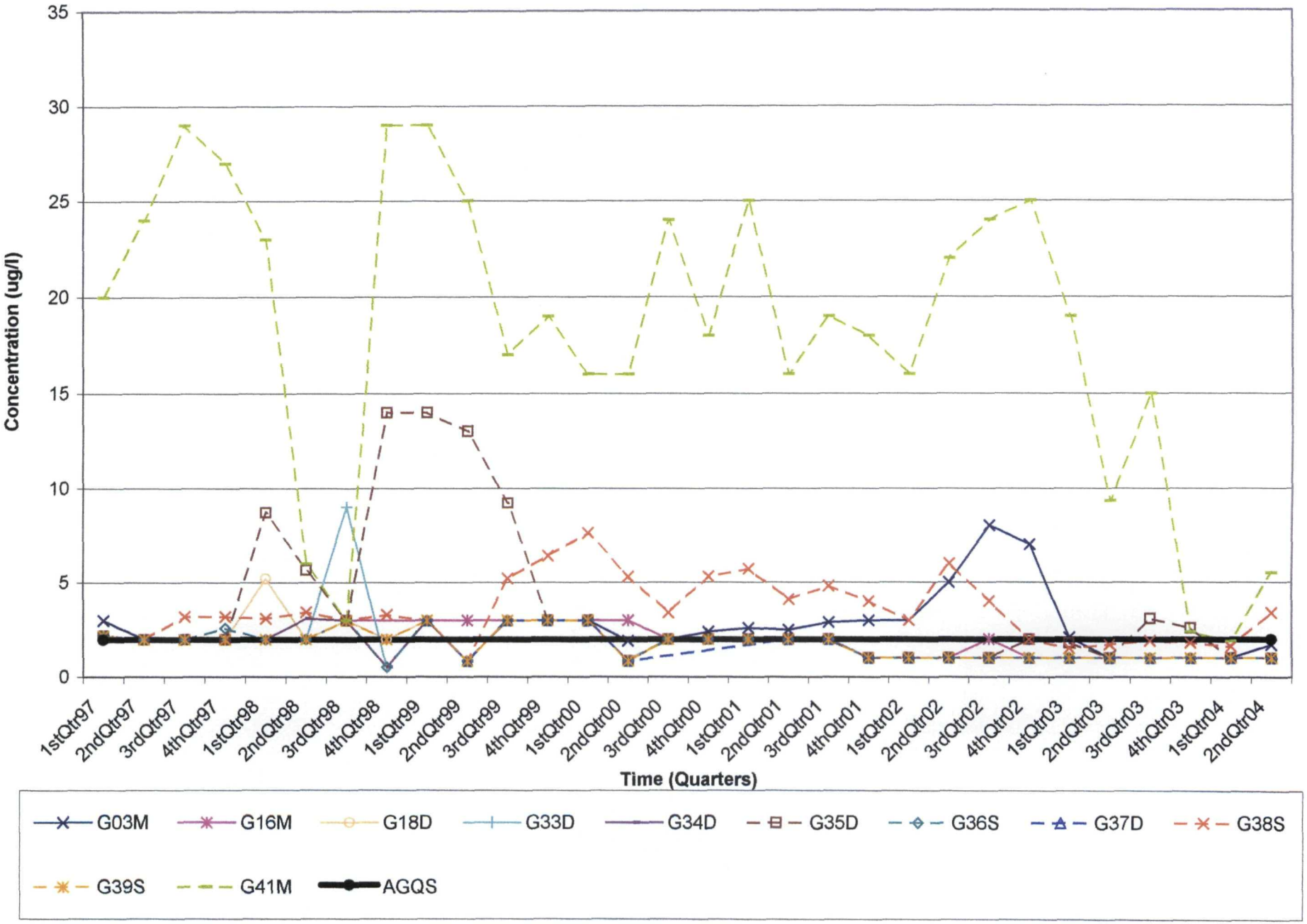
GMZ Graphs 2004 Lower Sand color
NH3,d

Winnebago Reclamation - Lower Zone Wells
Ammonia as N, total



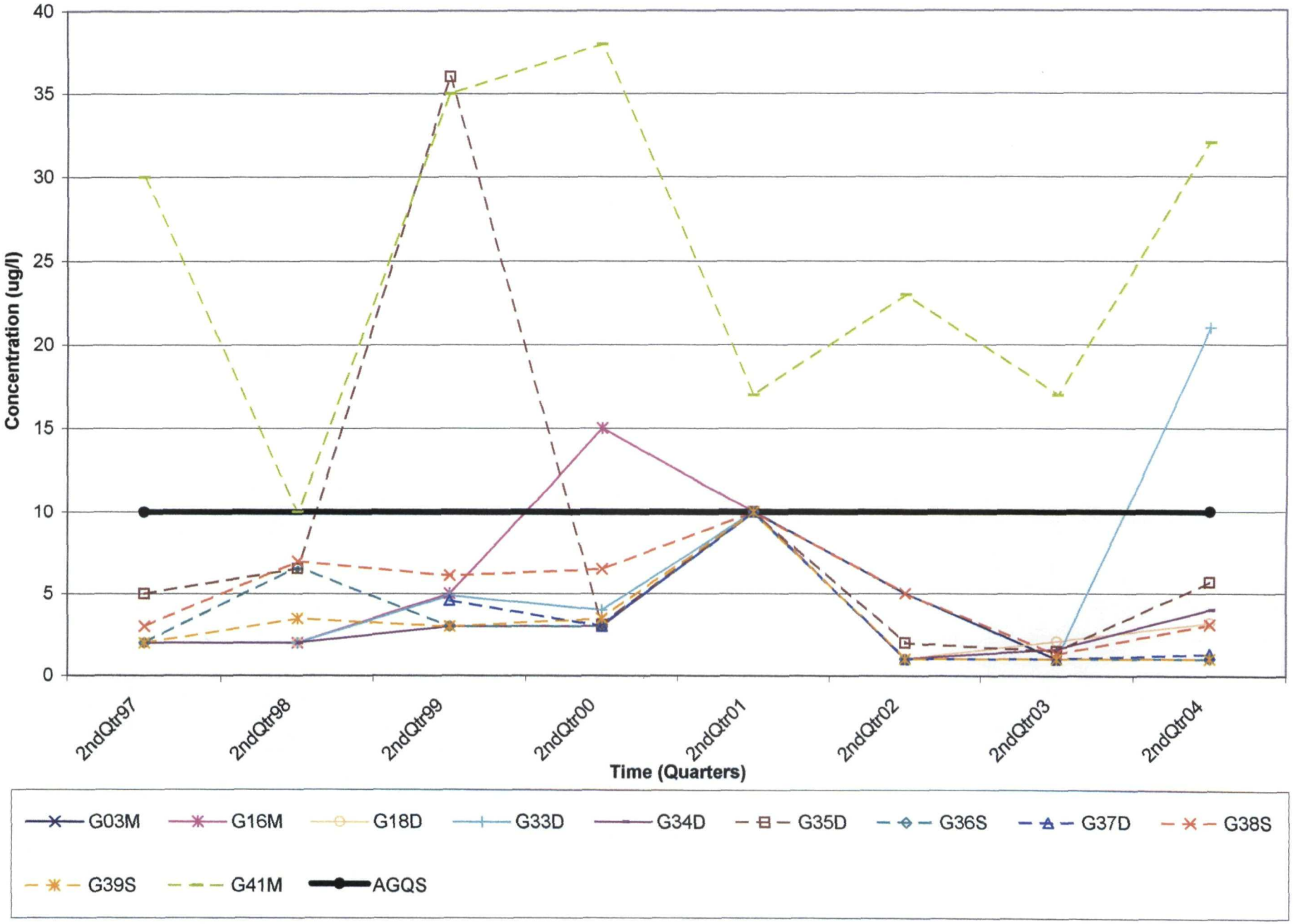
GMZ Graphs 2004 Lower Sand color
NH3,t

Winnebago Reclamation - Lower Zone Wells
Dissolved Arsenic



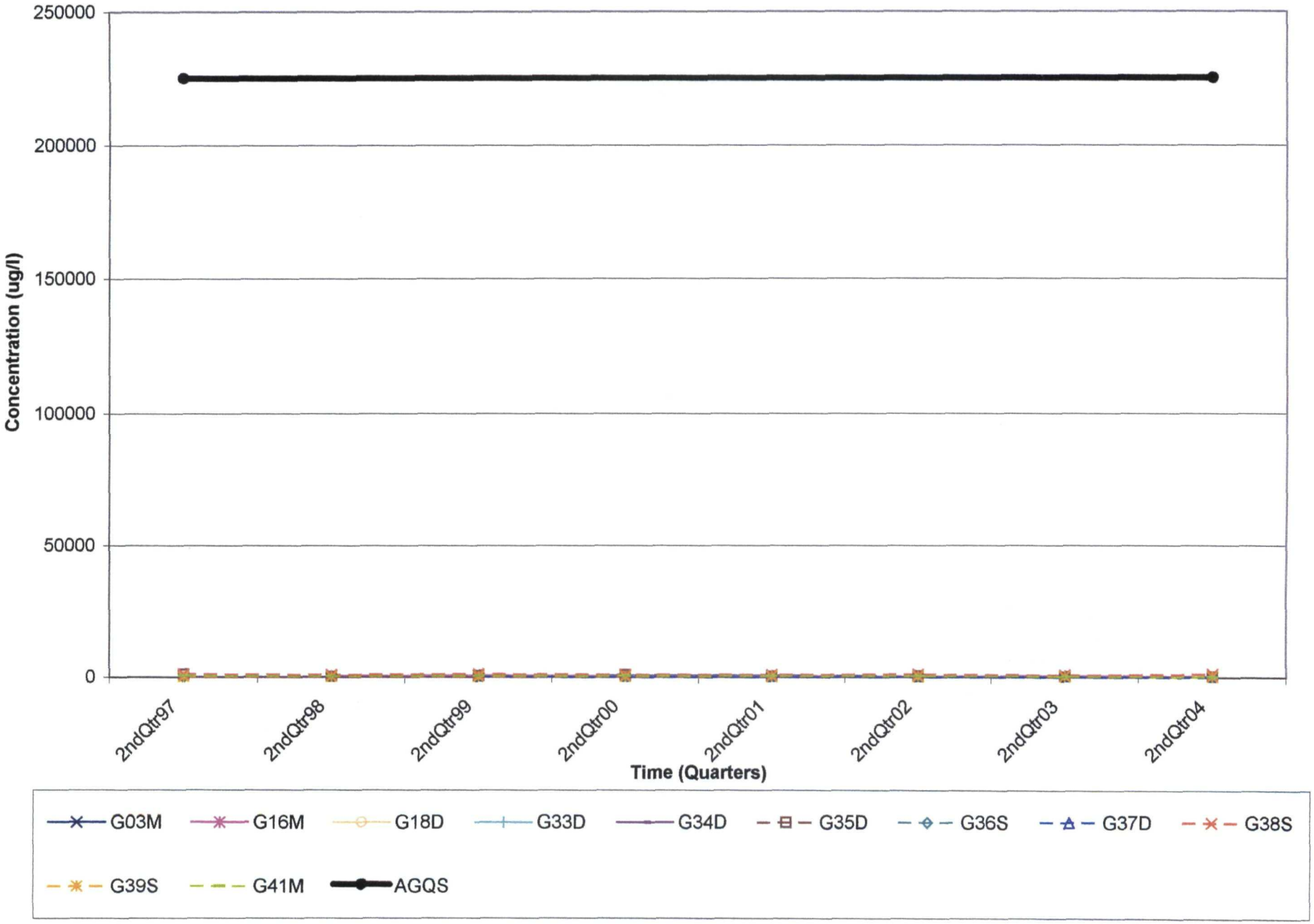
GMZ Graphs 2004 Lower Sand color
As,d

Winnebago Reclamation - Lower Zone Wells
Total Arsenic



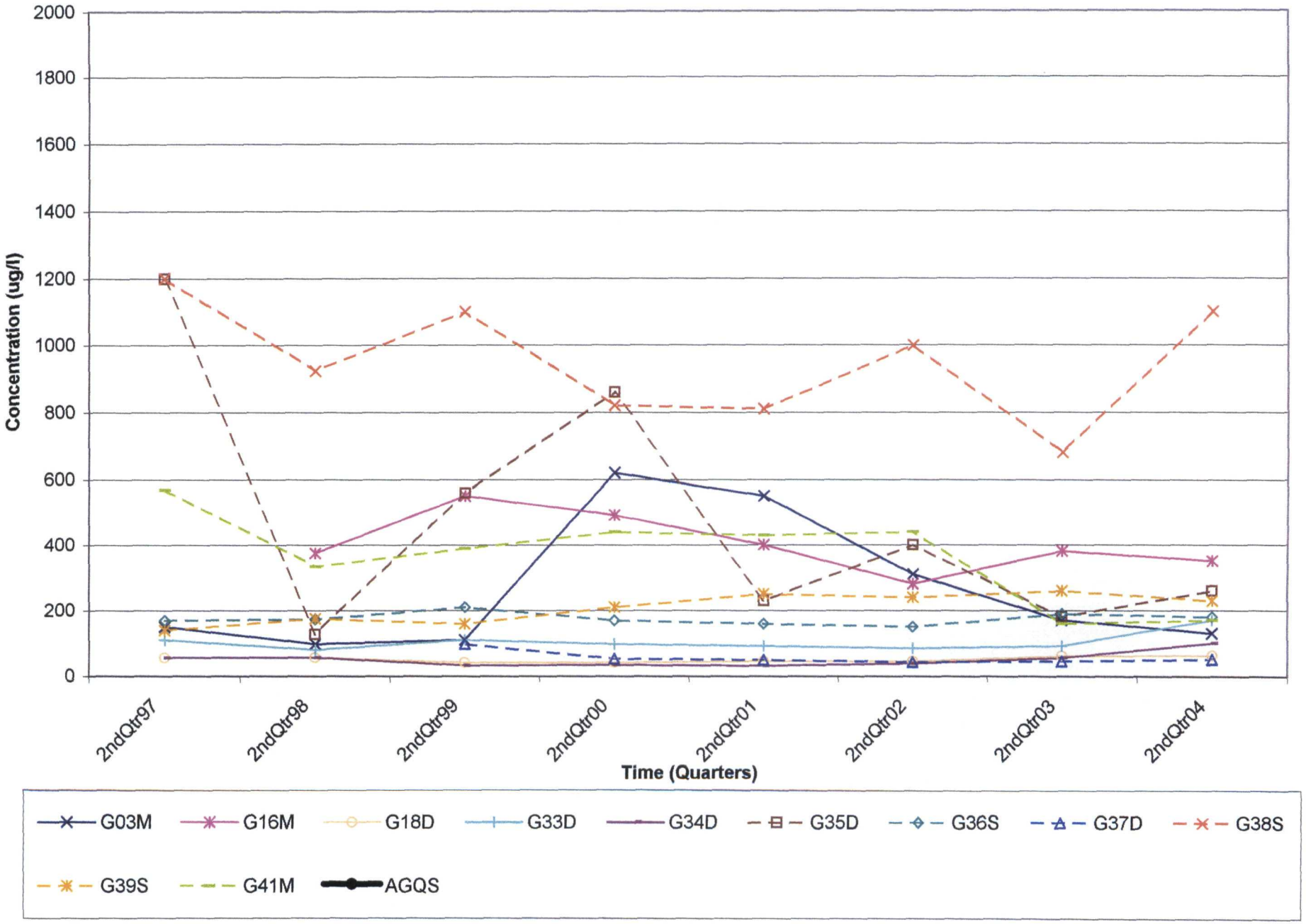
GMZ Graphs 2004 Lower Sand color
As,t

Winnebago Reclamation - Lower Zone Wells
Total Barium



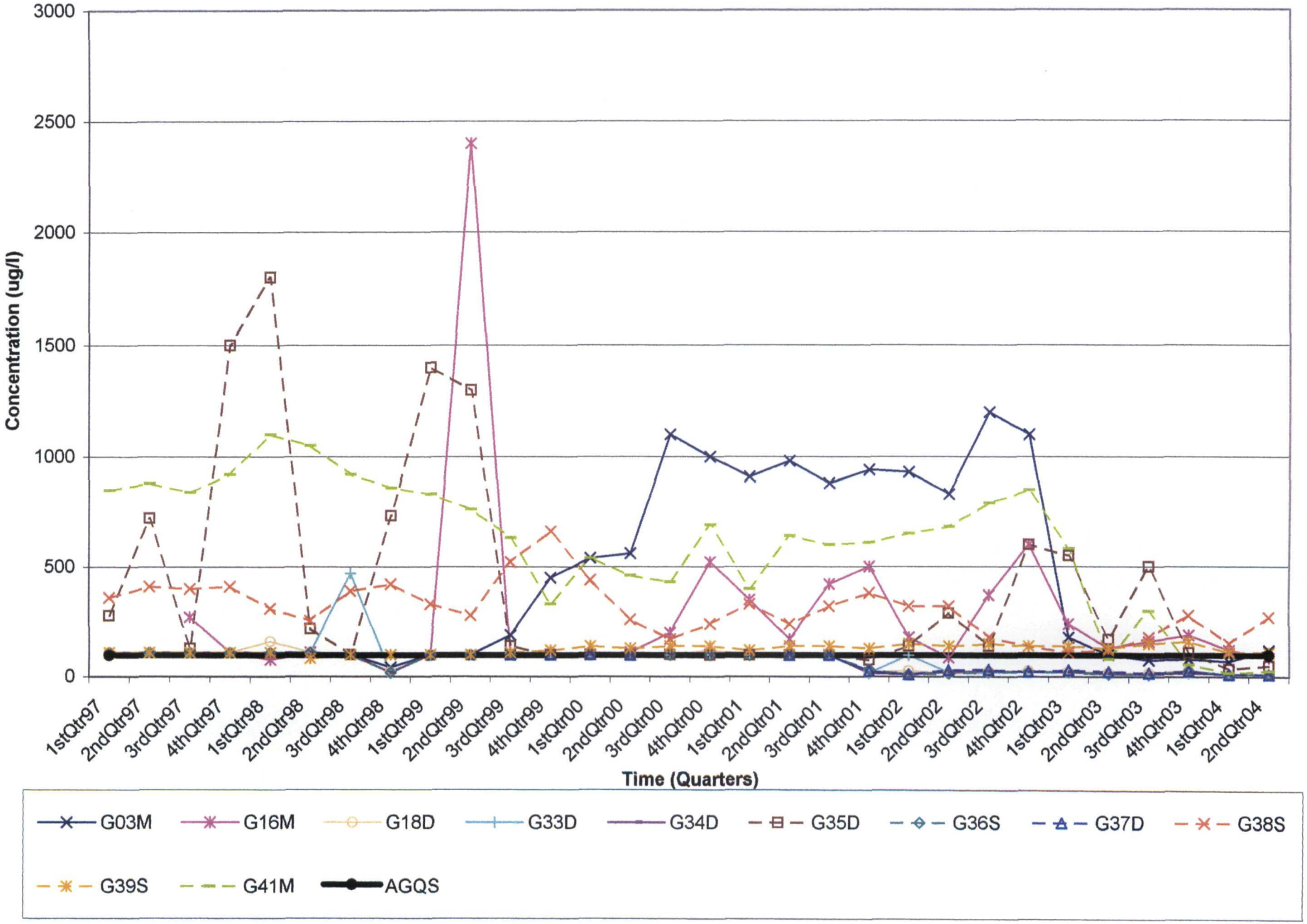
GMZ Graphs 2004 Lower Sand color
Ba,t

Winnebago Reclamation - Lower Zone Wells
Total Barium



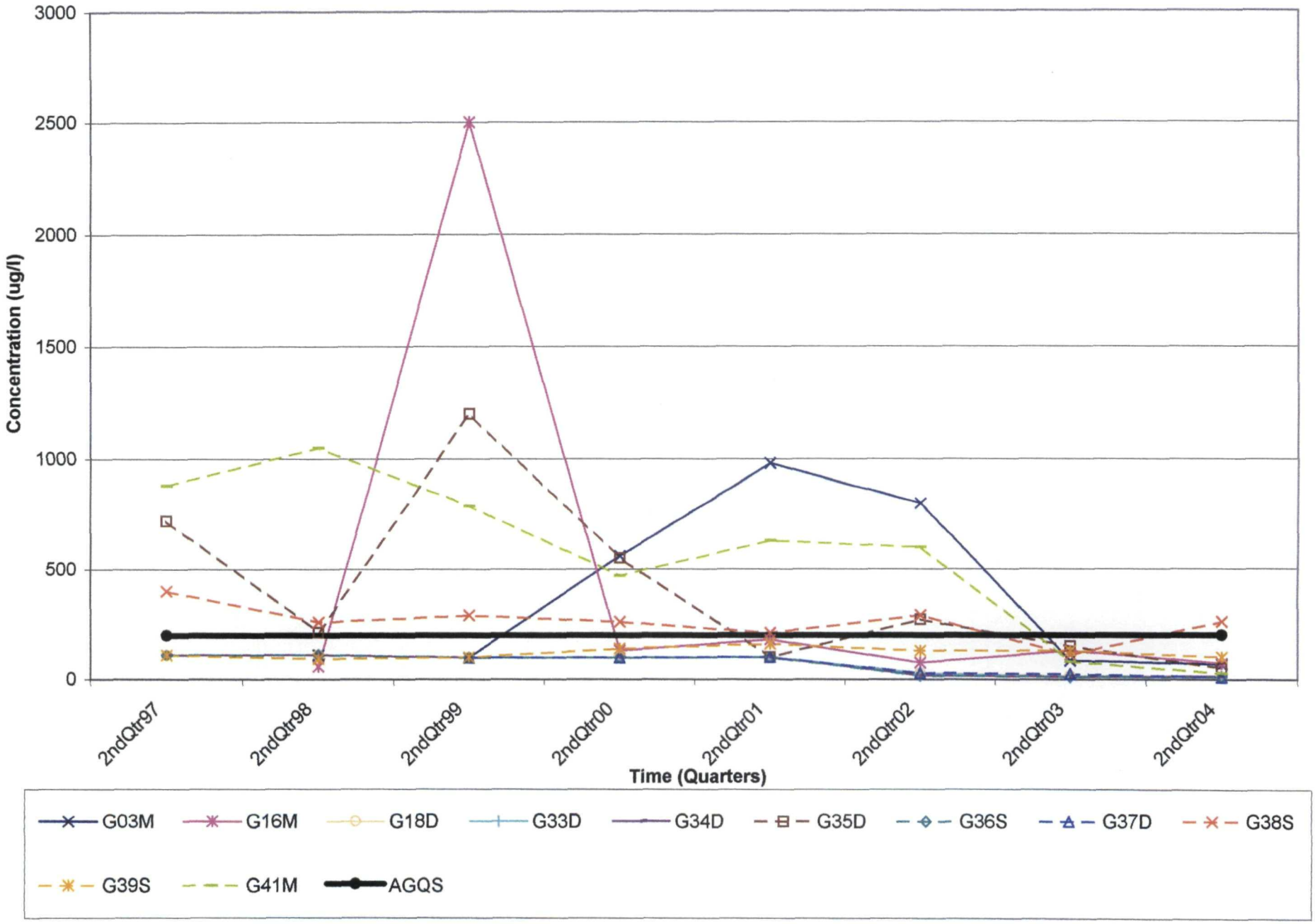
GMZ Graphs 2004 Lower Sand color
Ba,t scale

Winnebago Reclamation - Lower Zone Wells
Dissolved Boron



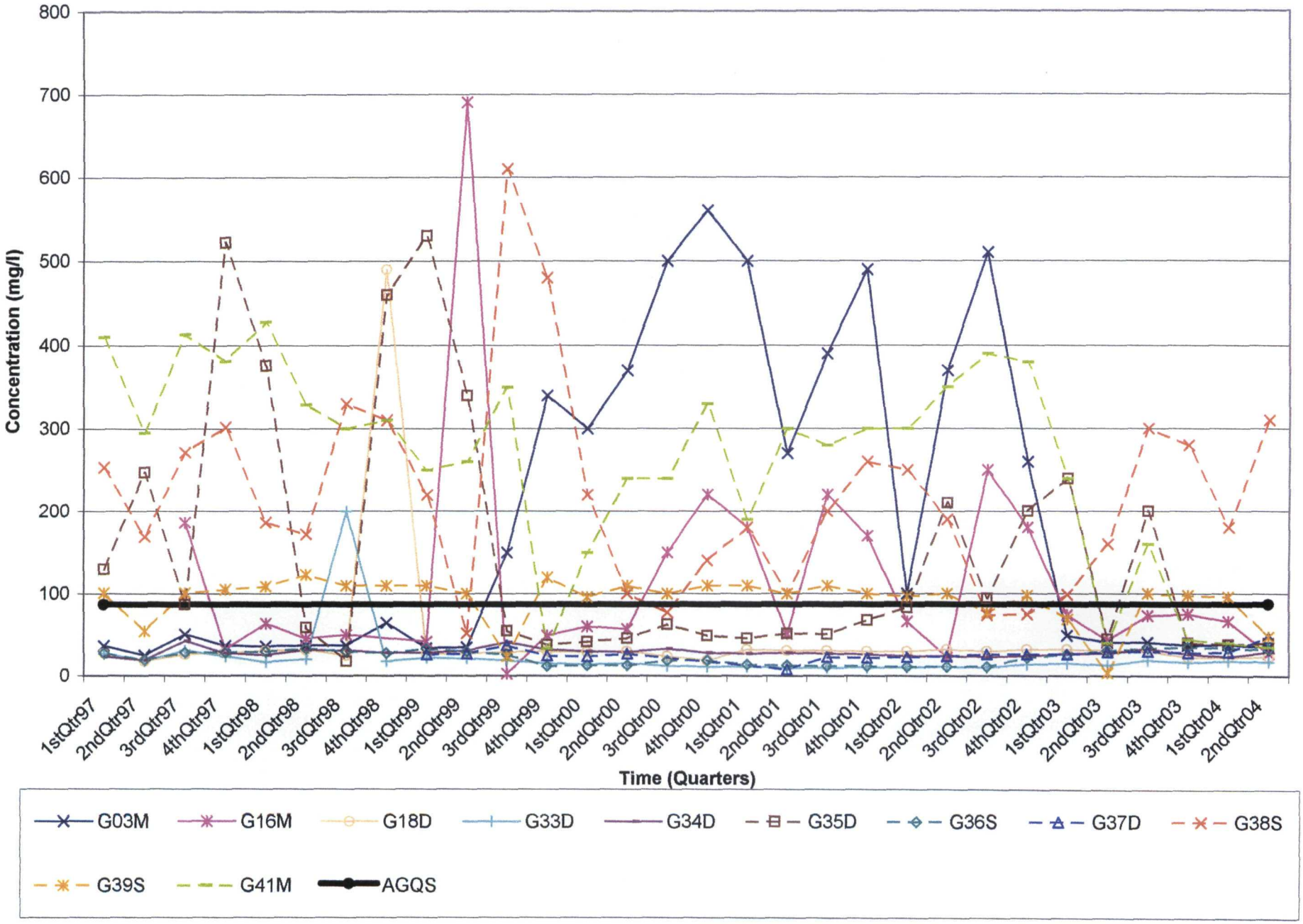
GMZ Graphs 2004 Lower Sand color B,d

Winnebago Reclamation - Lower Zone Wells
Total Boron



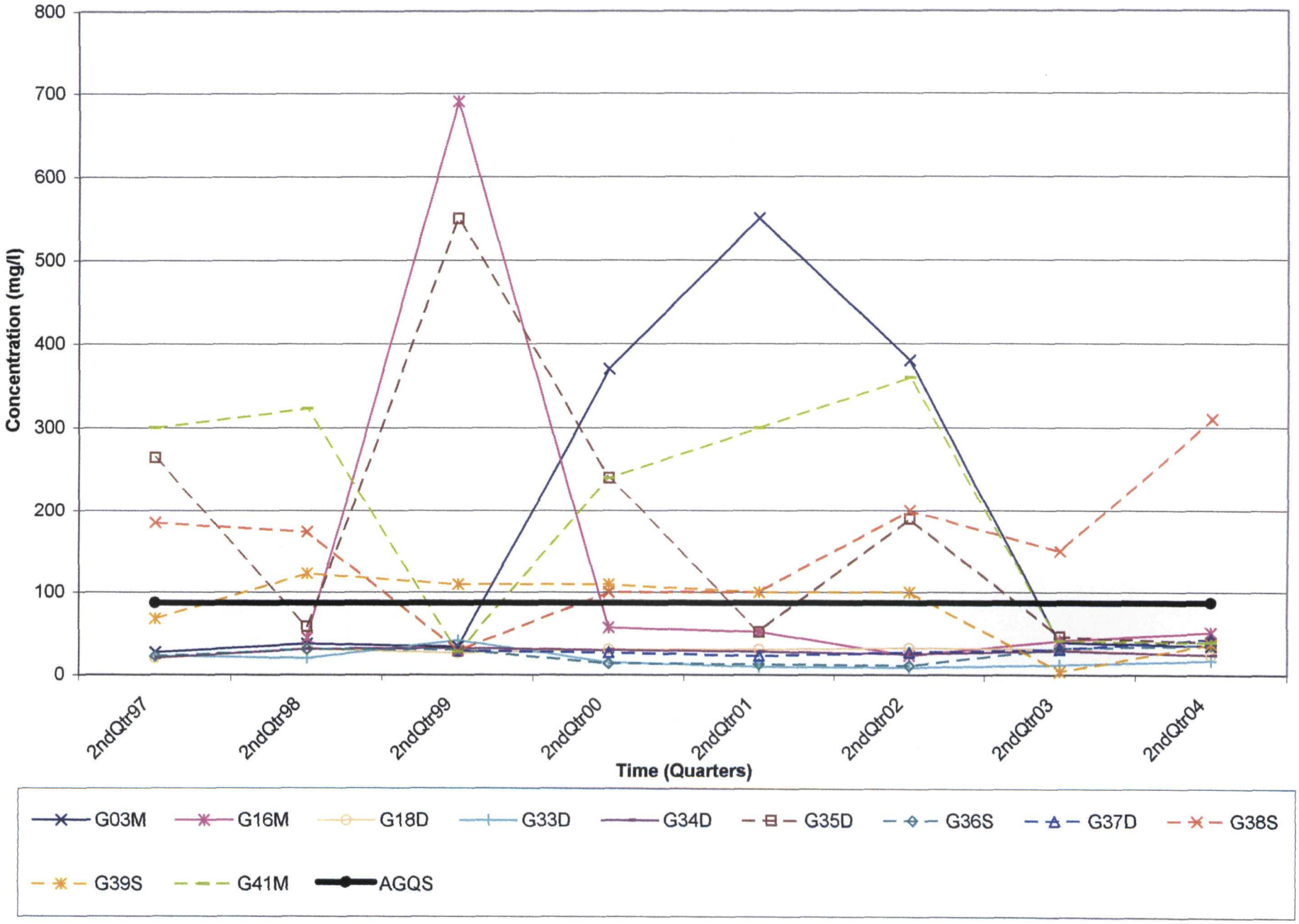
GMZ Graphs 2004 Lower Sand color
B,t

Winnebago Reclamation - Lower Zone Wells
Dissolved Chloride



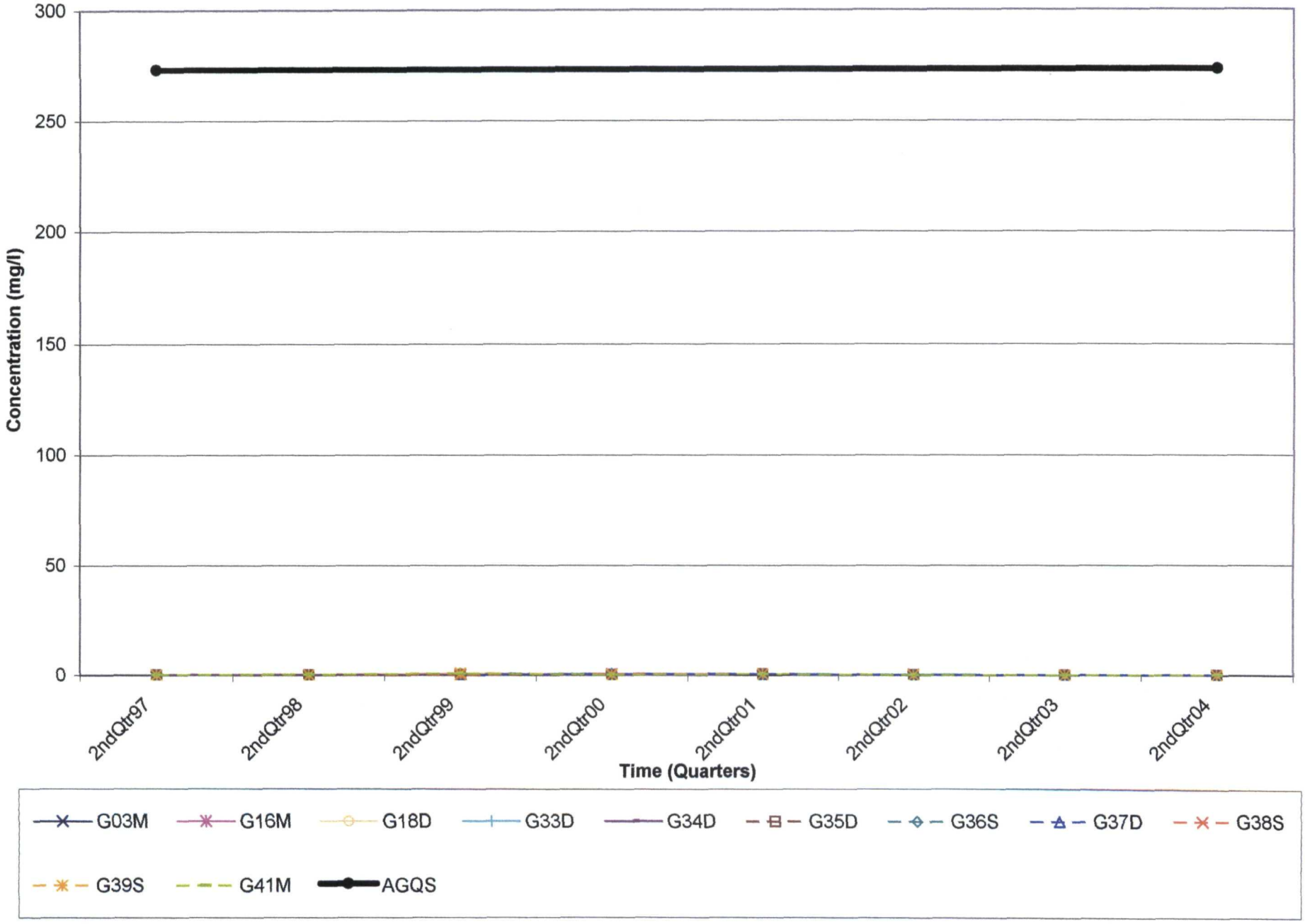
GMZ Graphs 2004 Lower Sand color
Cl,d

Winnebago Reclamation - Lower Zone Wells
Total Chloride



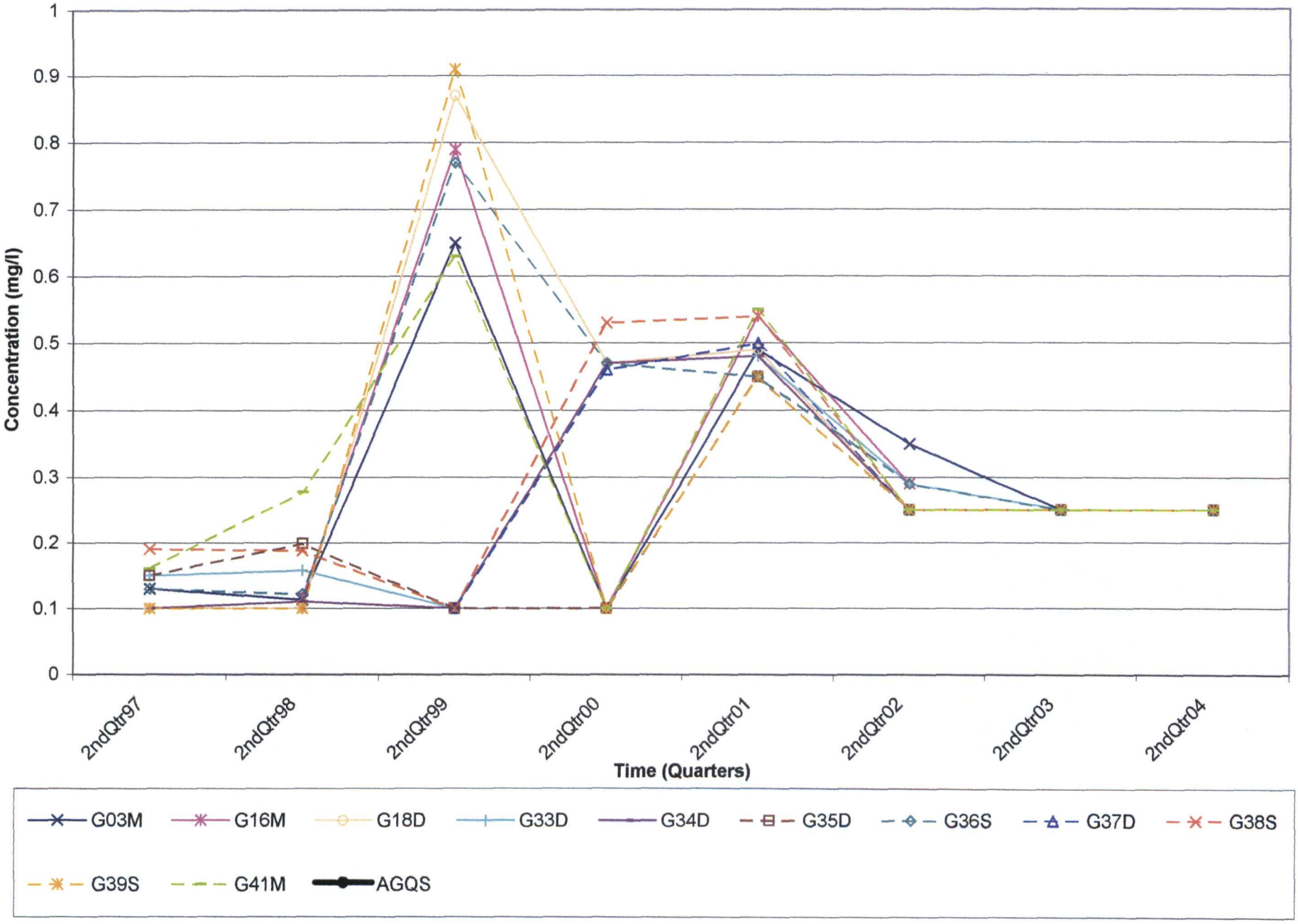
GMZ Graphs 2004 Lower Sand color
Cl,t

Winnebago Reclamation - Lower Zone Wells
Total Fluoride



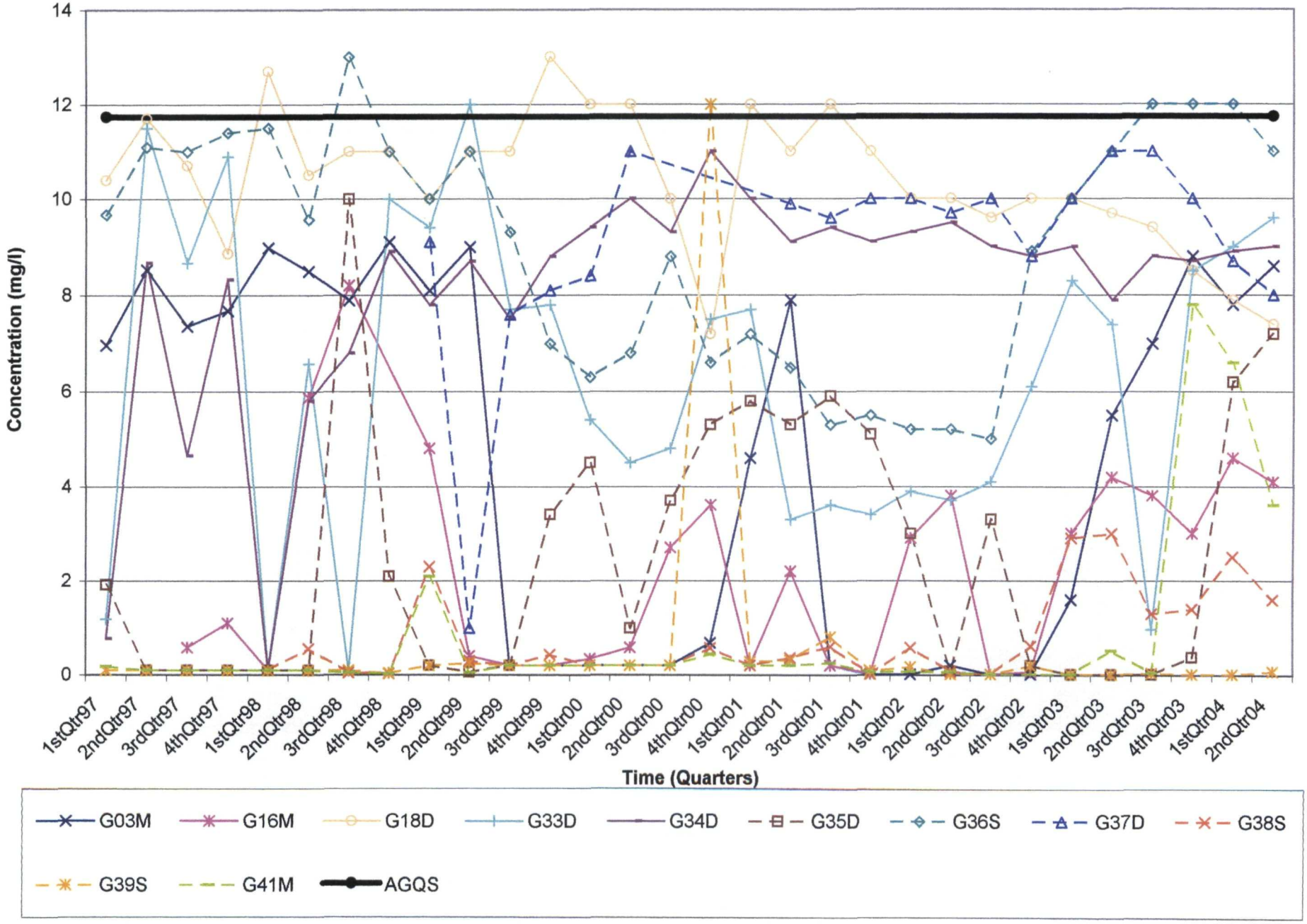
GMZ Graphs 2004 Lower Sand color
Fluoride

Winnebago Reclamation - Lower Zone Wells
Total Fluoride



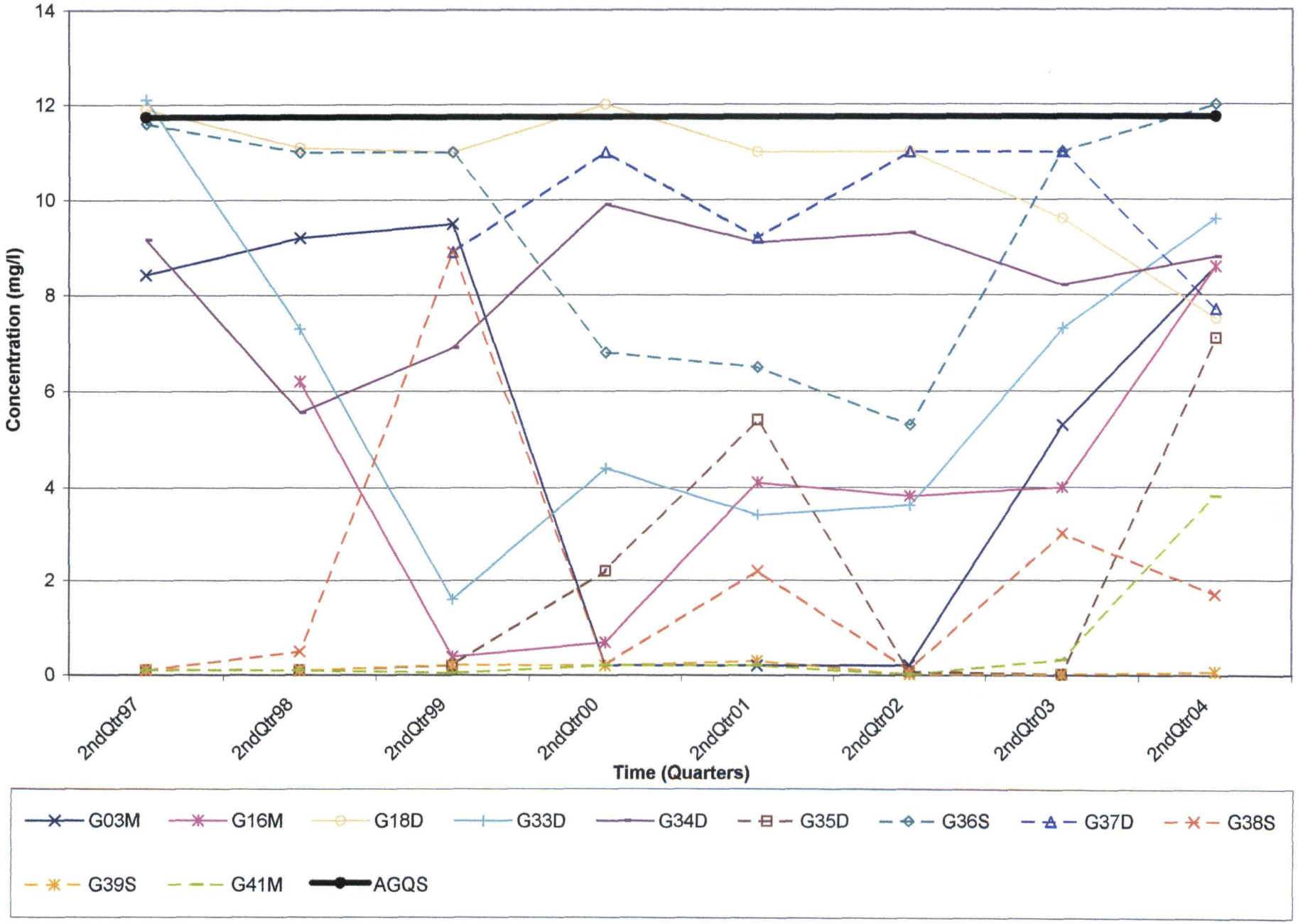
GMZ Graphs 2004 Lower Sand color
Fluoride scale

Winnebago Reclamation - Lower Zone Wells
Dissolved Nitrate



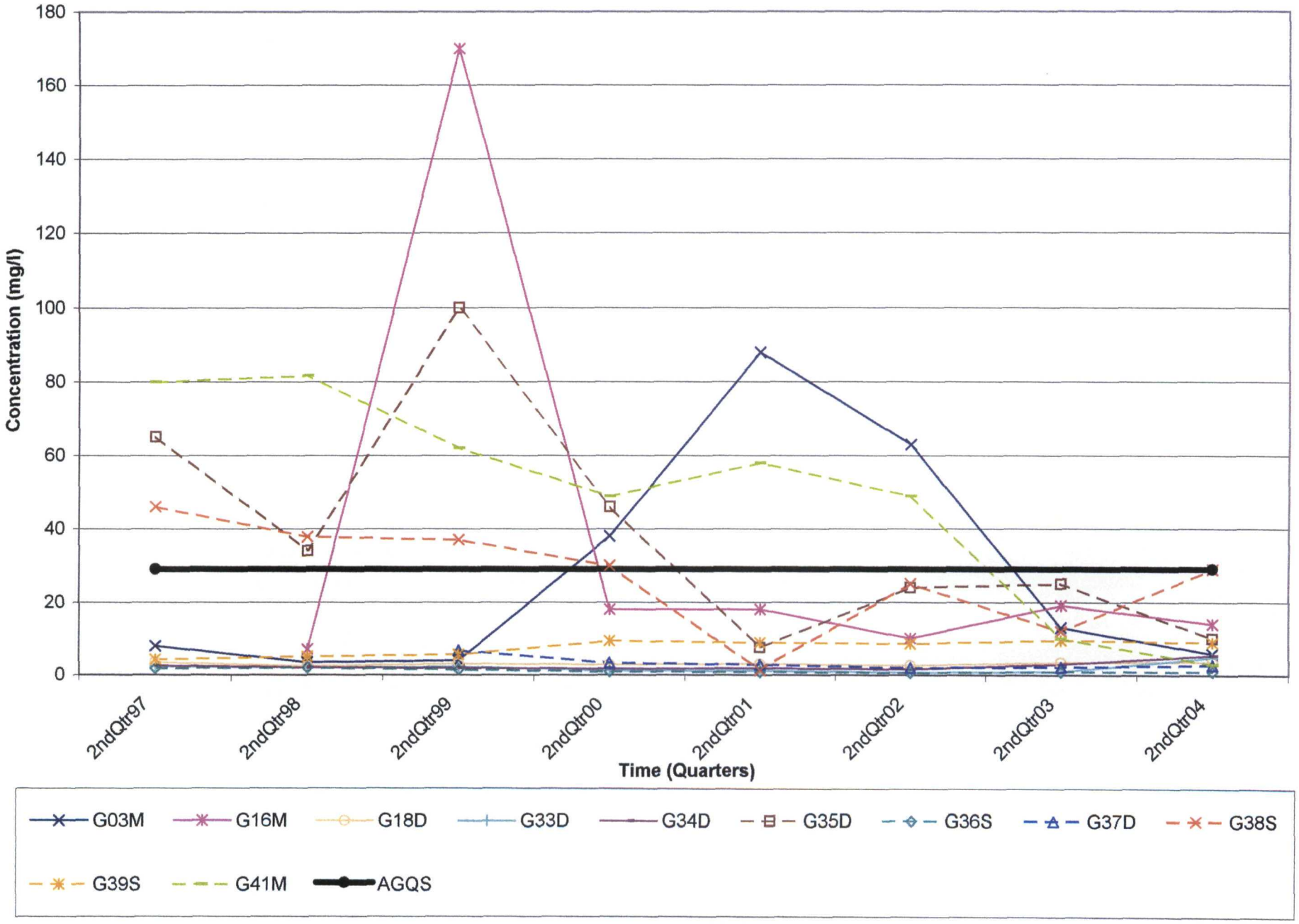
GMZ Graphs 2004 Lower Sand color
Nitrate,d

Winnebago Reclamation - Lower Zone Wells
Total Nitrate



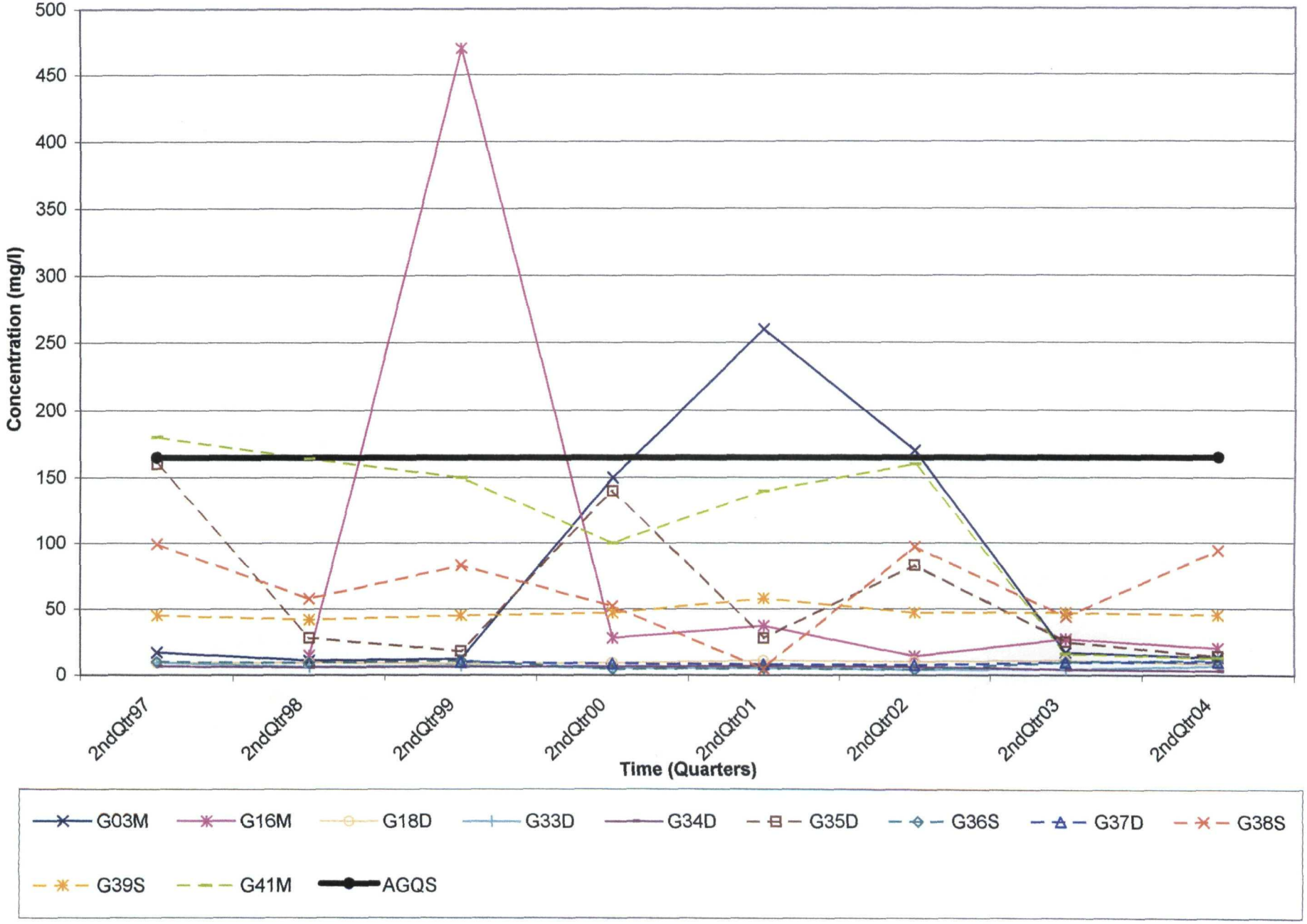
GMZ Graphs 2004 Lower Sand color
Nitrate

Winnebago Reclamation - Lower Zone Wells
Total Potassium



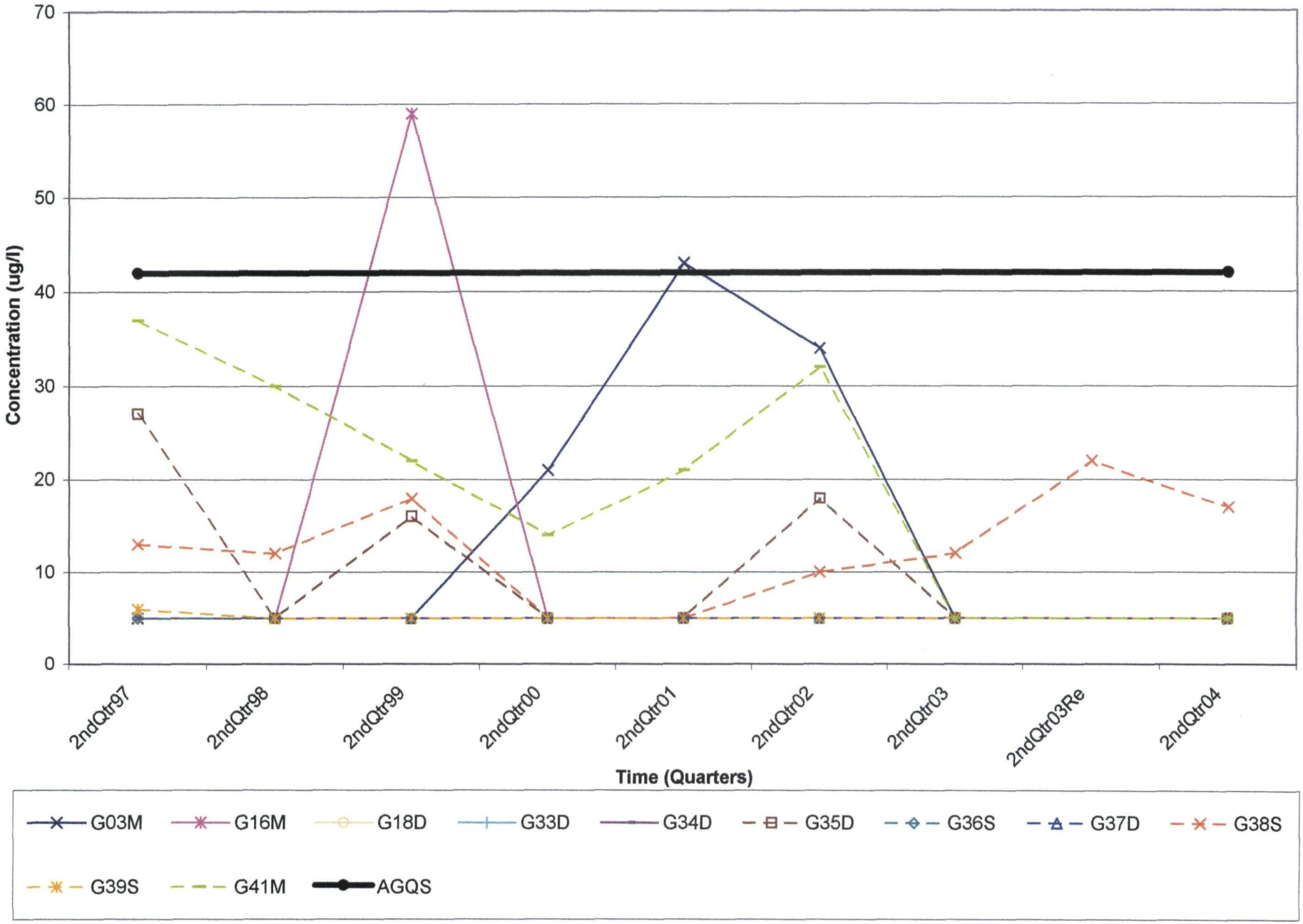
GMZ Graphs 2004 Lower Sand color
Potassium

Winnebago Reclamation - Lower Zone Wells
Total Sodium



GMZ Graphs 2004 Lower Sand color
Sodium

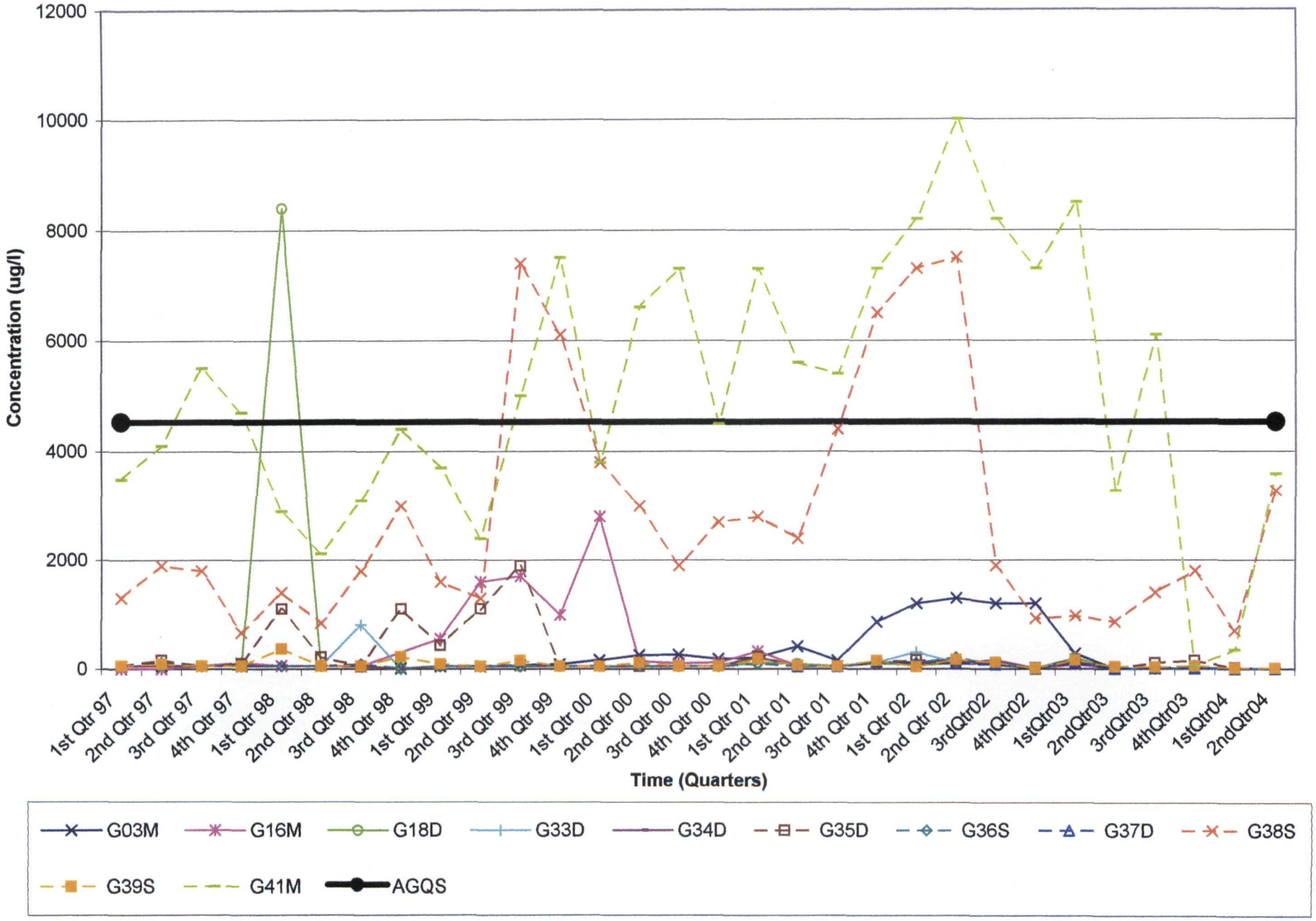
Winnebago Reclamation - Lower Zone Wells
Tetrahydrofuran



GMZ Graphs 2004 Lower Sand color
Tetrahydrofuran

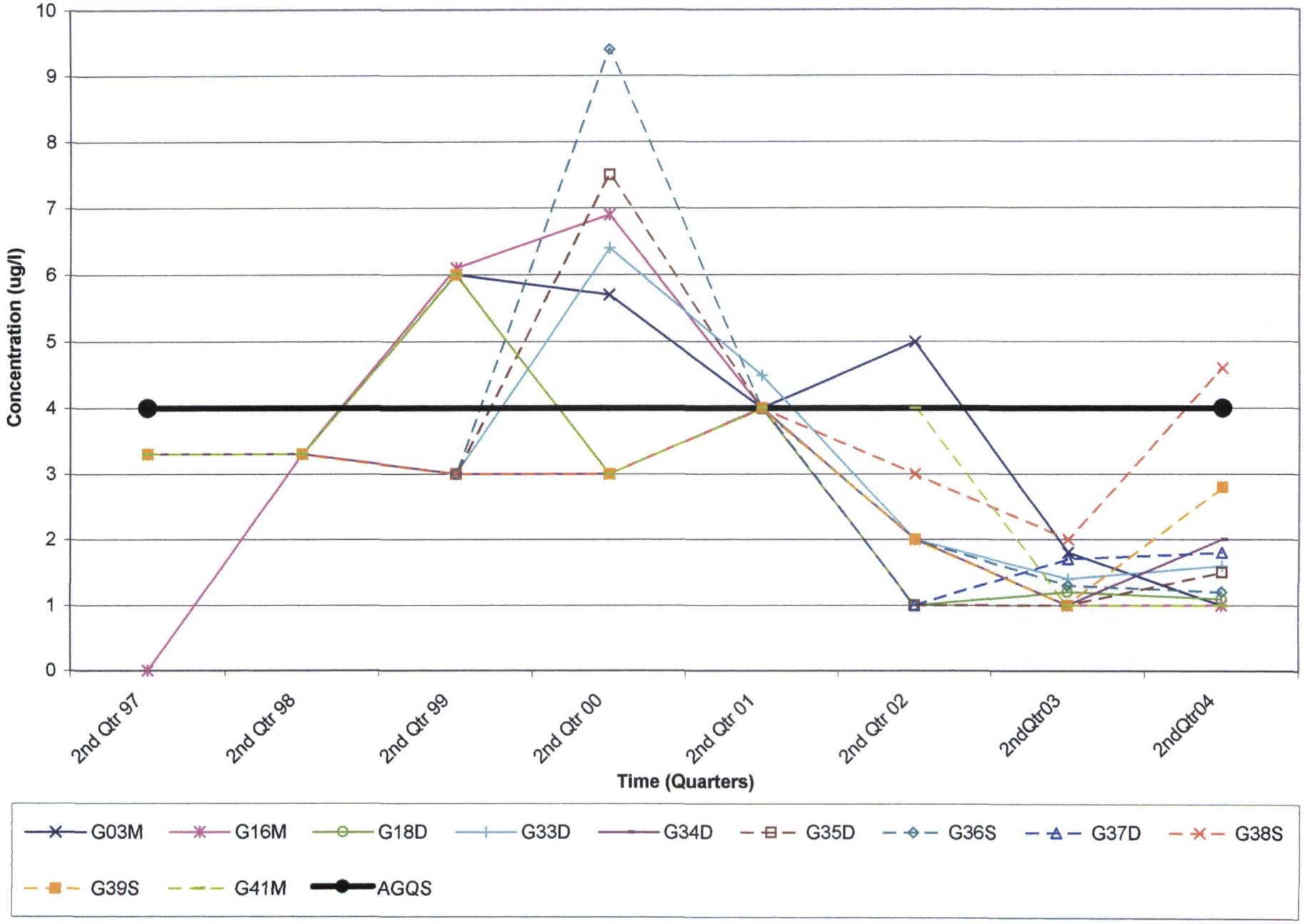
Non-GMZ Parameter Specific Trend Graphs

Winnebago Reclamation - Lower Zone Wells
Dissolved Iron



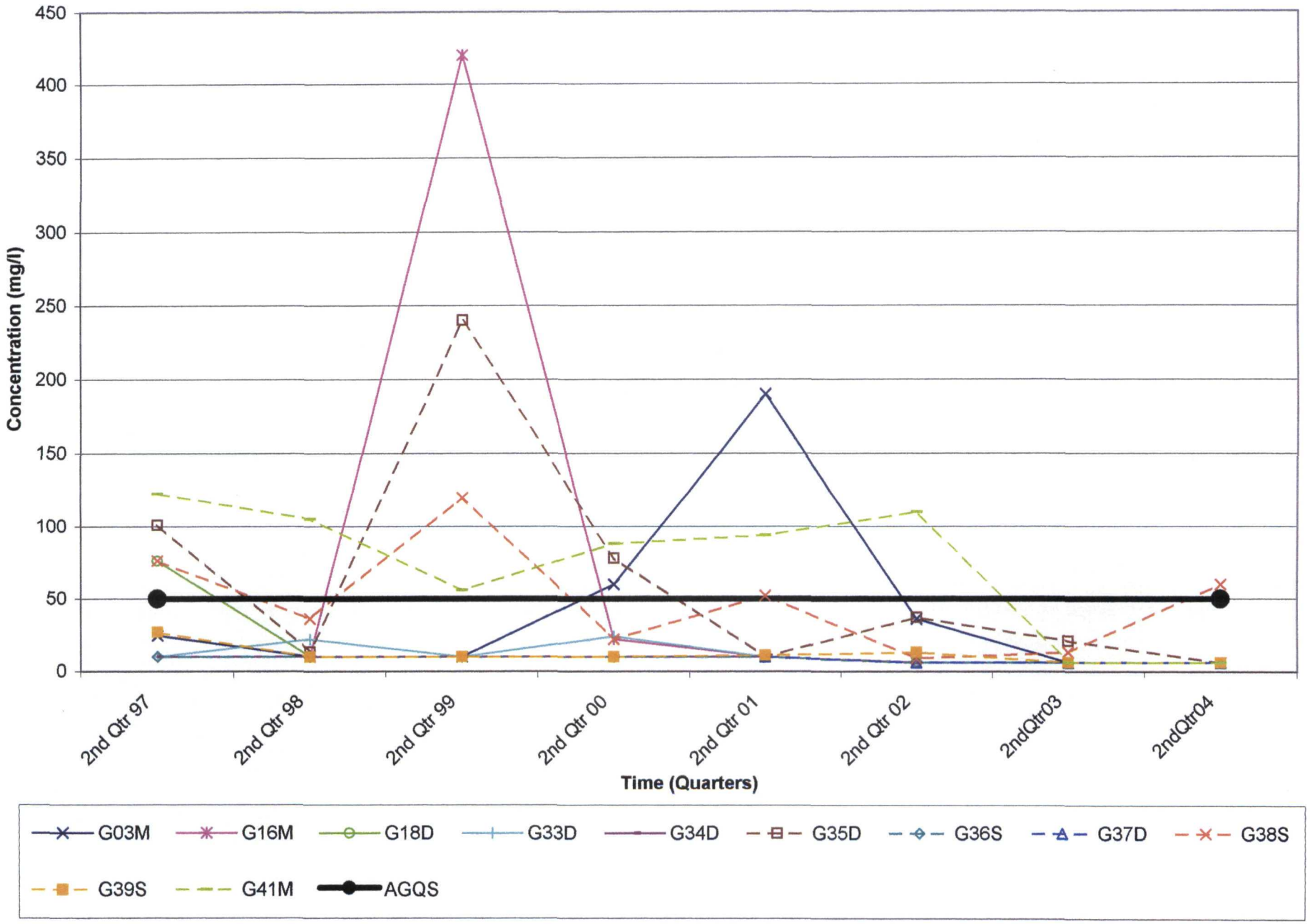
Exceedence Graphs Non GMZ Parameters Lower Sand
Fe,d

Winnebago Reclamation - Lower Zone Wells
Total Selenium



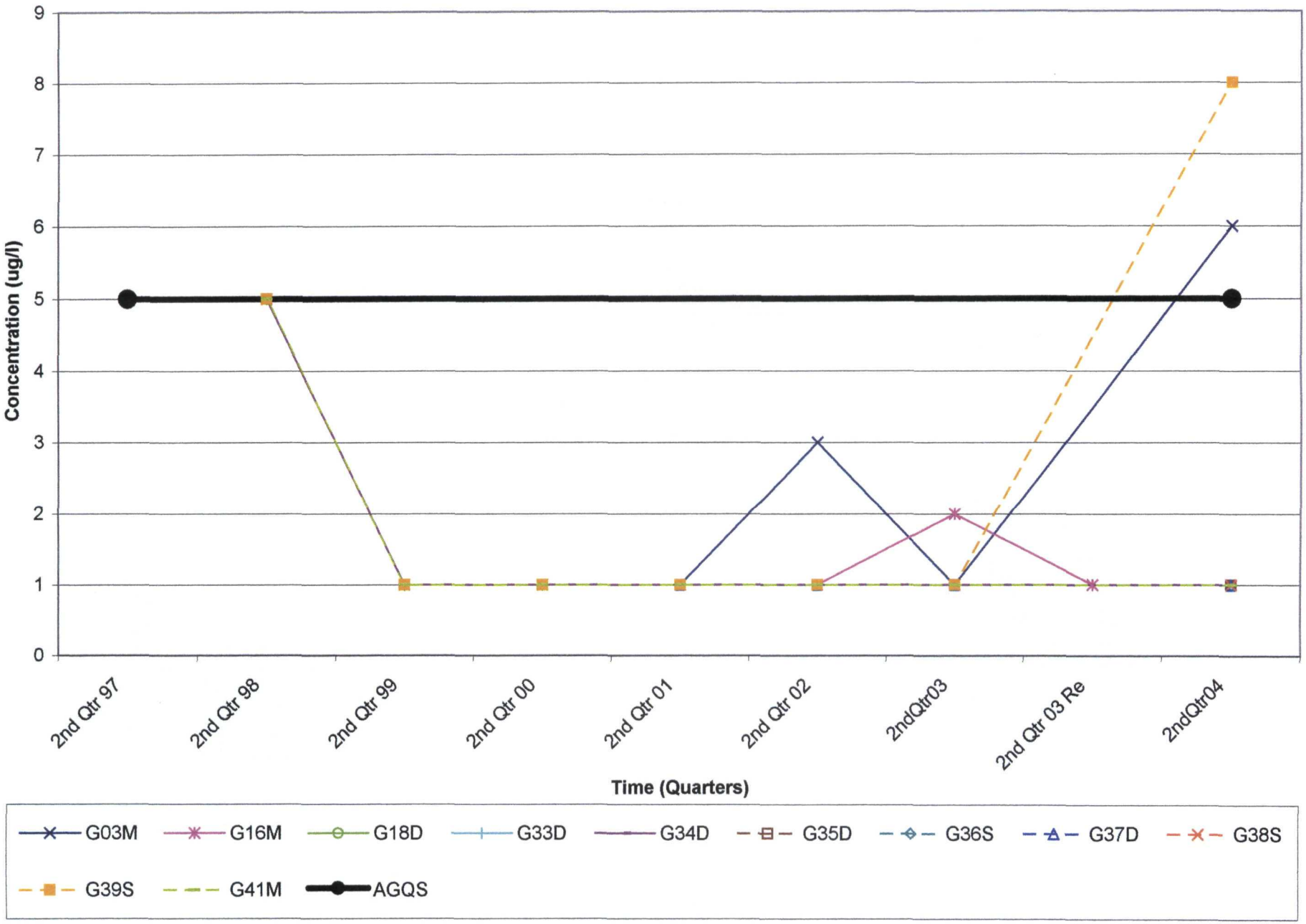
Exceedence Graphs Non GMZ Parameters Lower Sand
Se

Winnebago Reclamation - Lower Zone Wells
Chemical Oxygen Demand



Exceedence Graphs Non GMZ Parameters Lower Sand
COD

Winnebago Reclamation - Lower Zone Wells
Carbon Disulfide

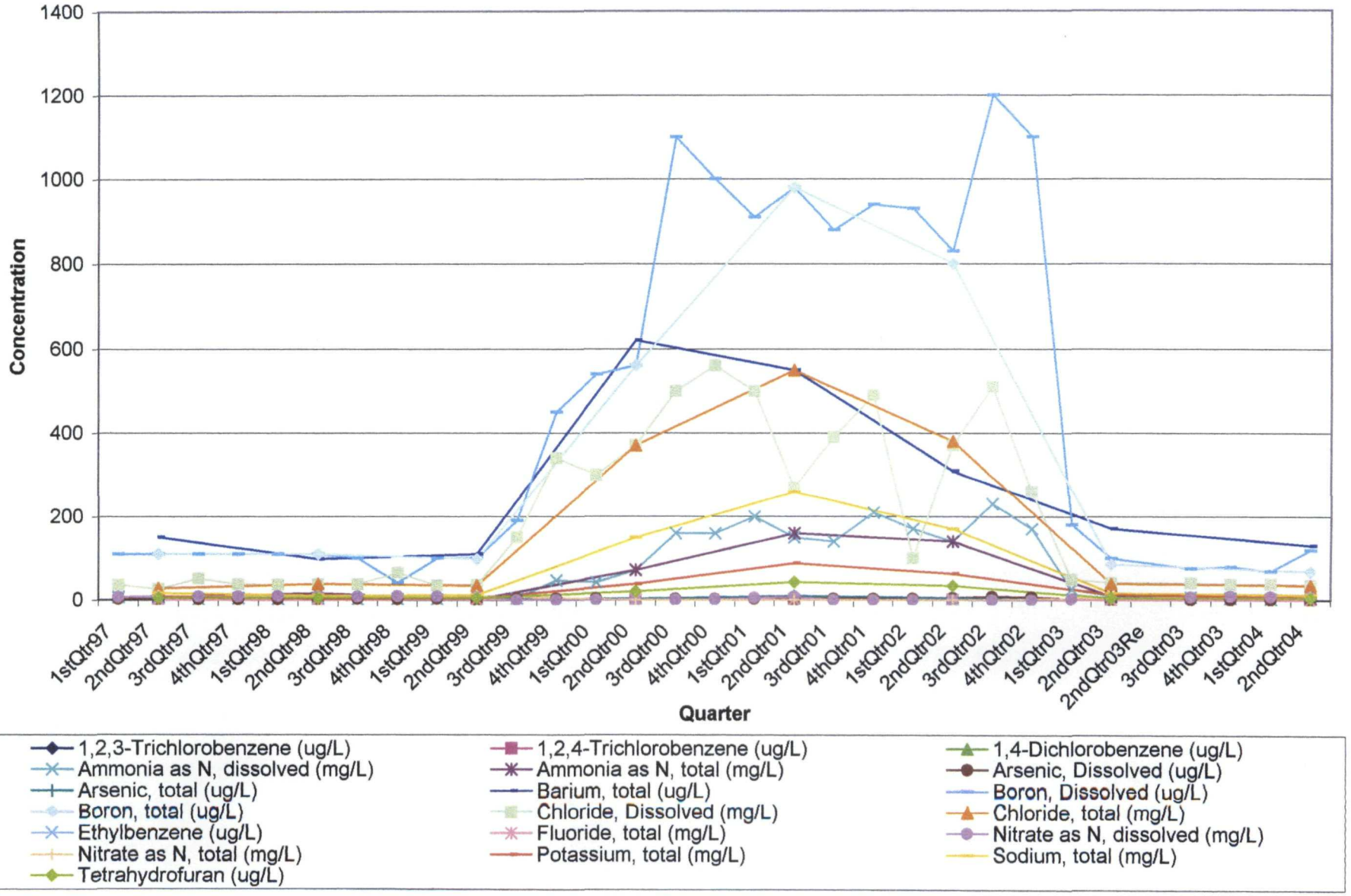


Exceedence Graphs Non GMZ Parameters Lower Sand
Carbon Disulfide

Well Specific Trend Graphs

Winnebago Reclamation

Well G03M

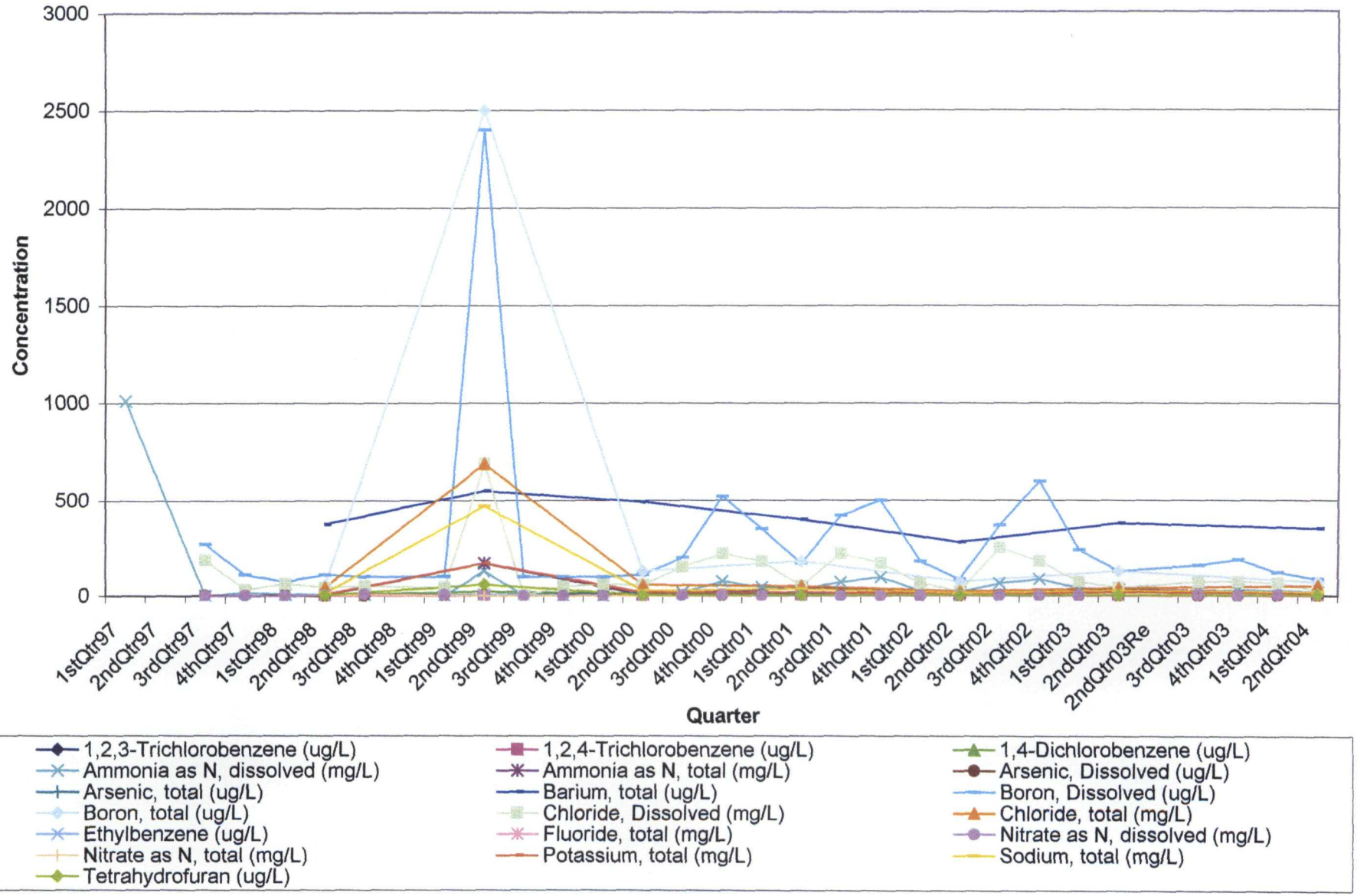


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G03M

Winnebago Reclamation

Well G16M

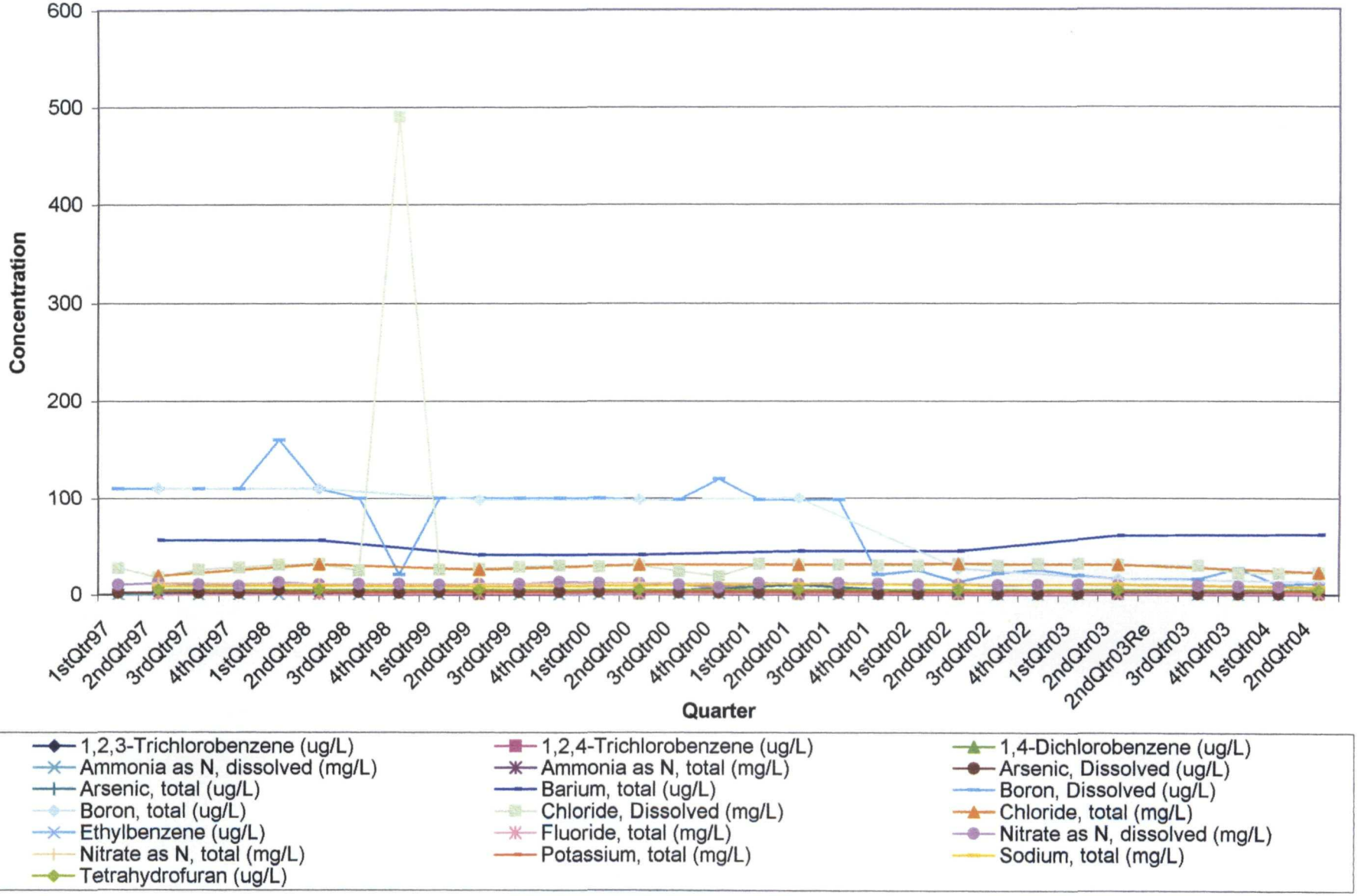


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G16M

Winnebago Reclamation

Well G18D

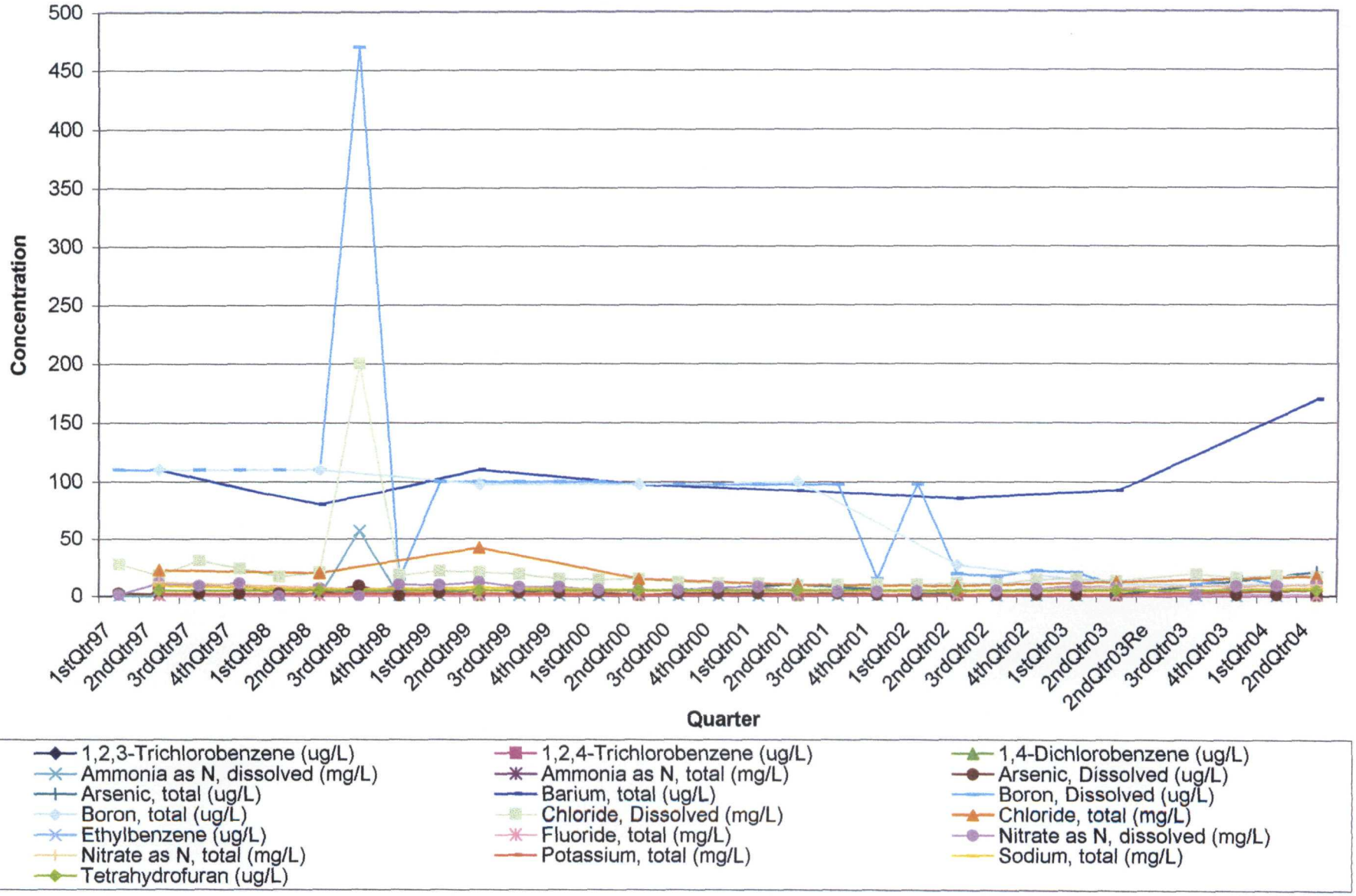


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G18D

Winnebago Reclamation

Well G33D

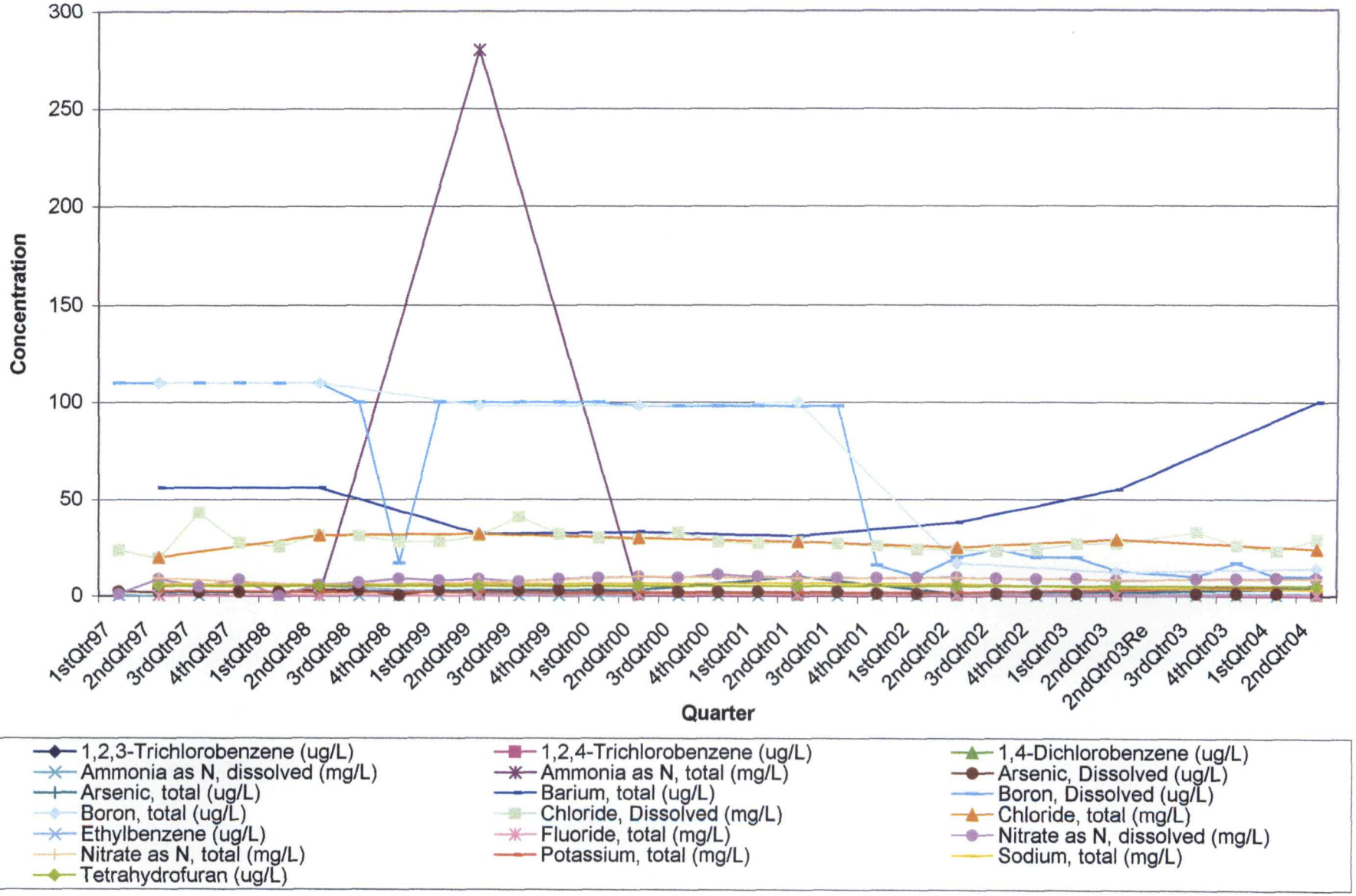


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G33D

Winnebago Reclamation

Well G34D

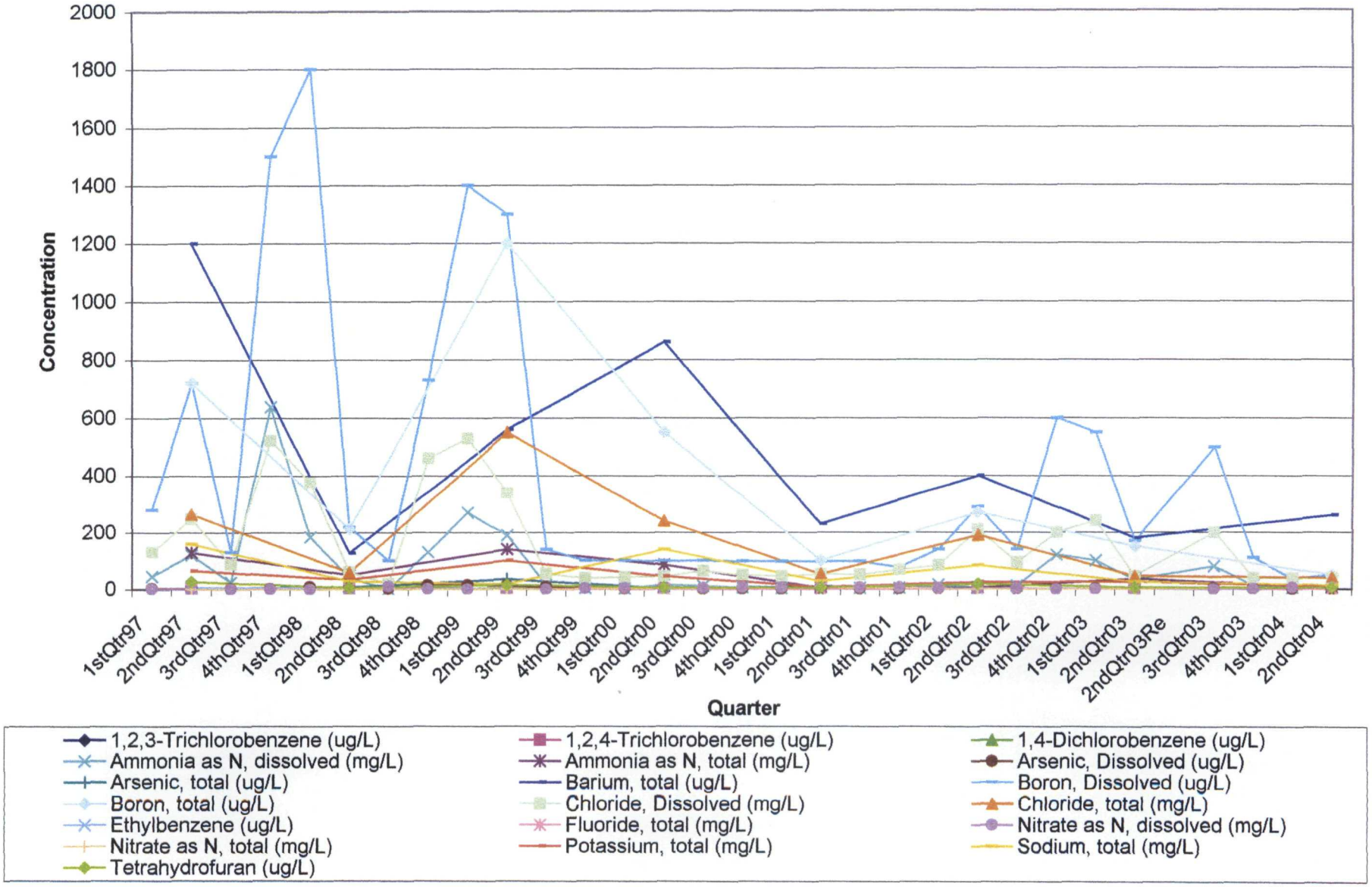


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G34D

Winnebago Reclamation

Well G35D

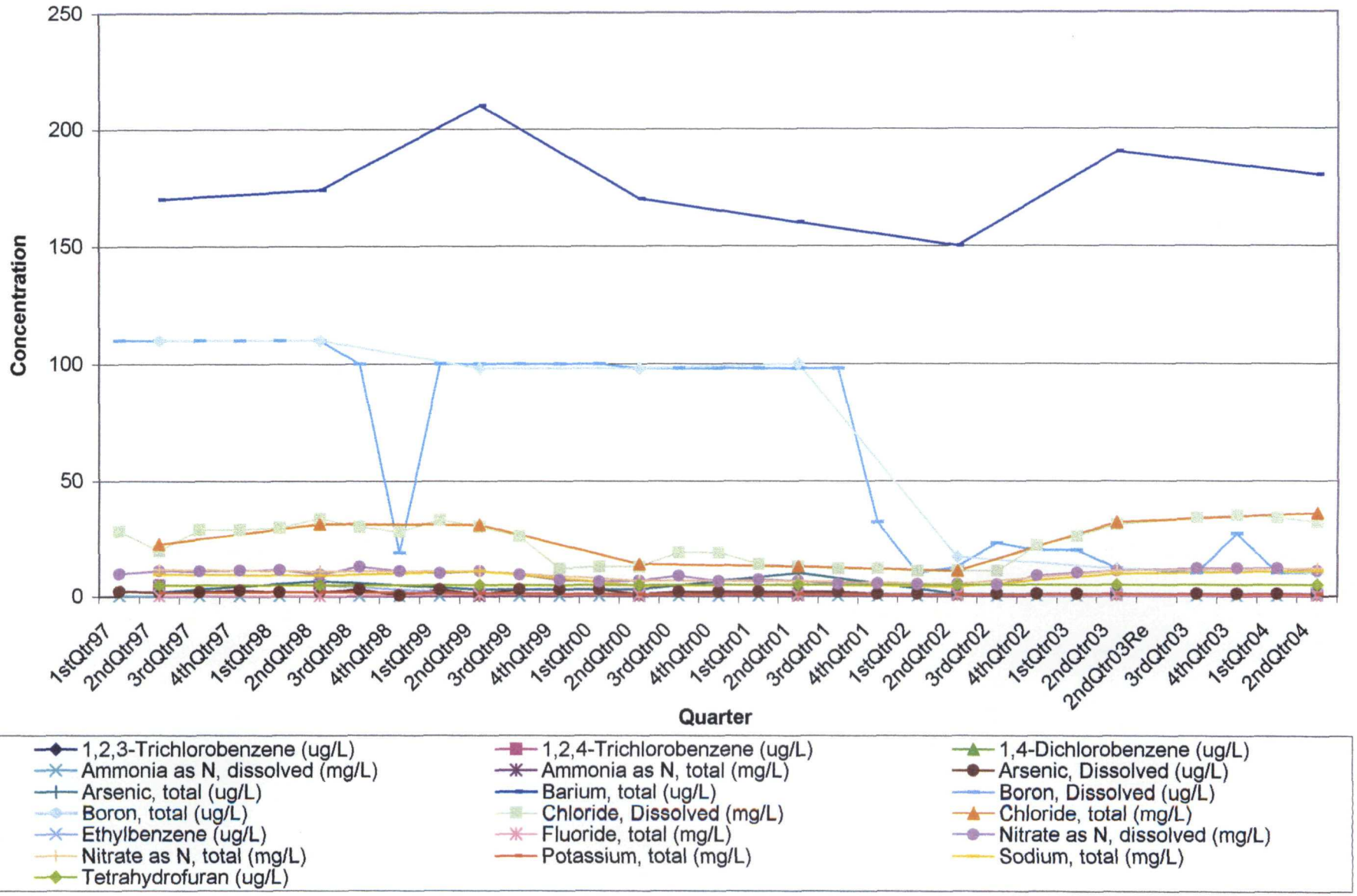


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G35D

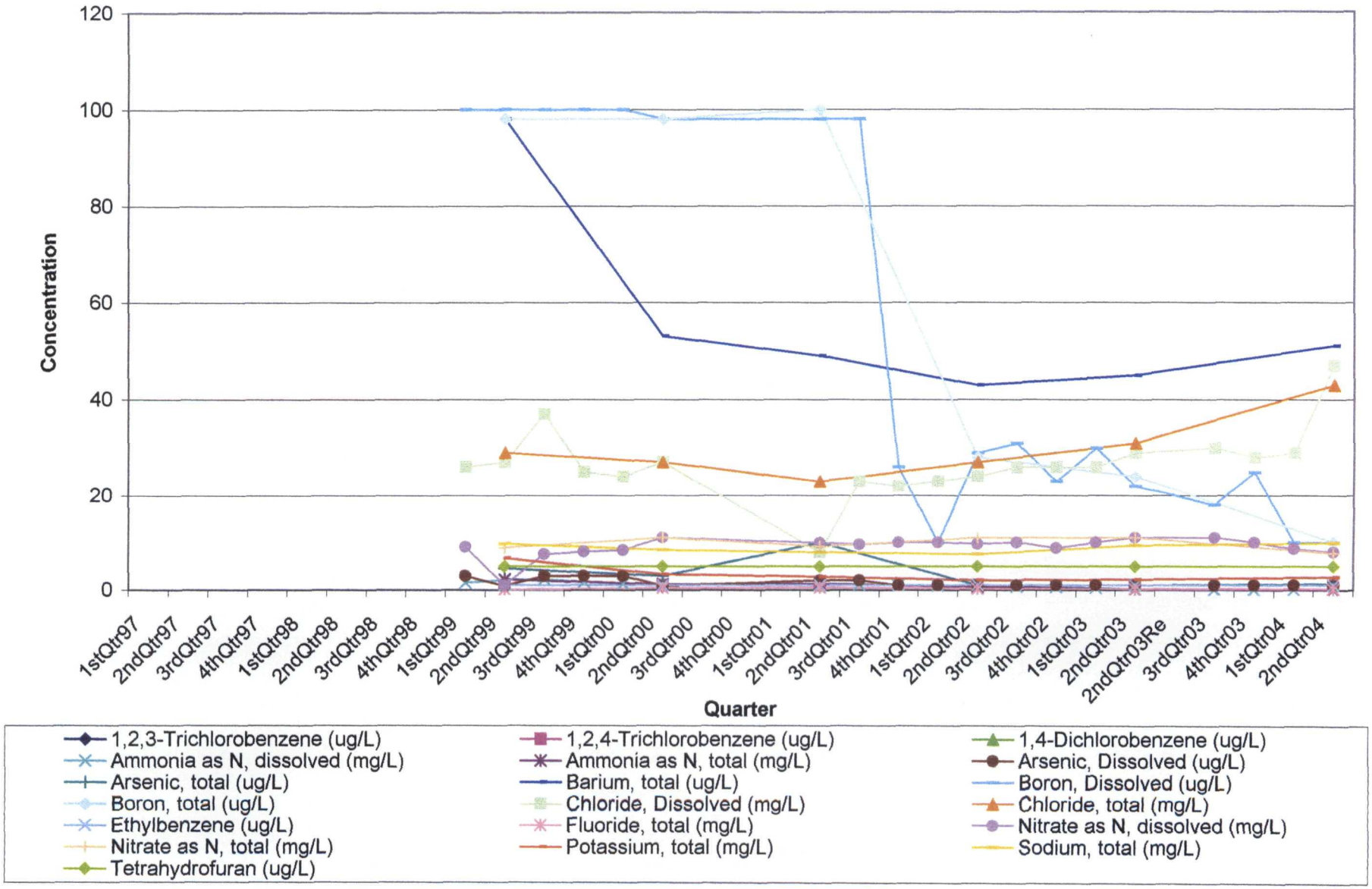
Winnebago Reclamation

Well G36S



Winnebago Reclamation

Well G37D

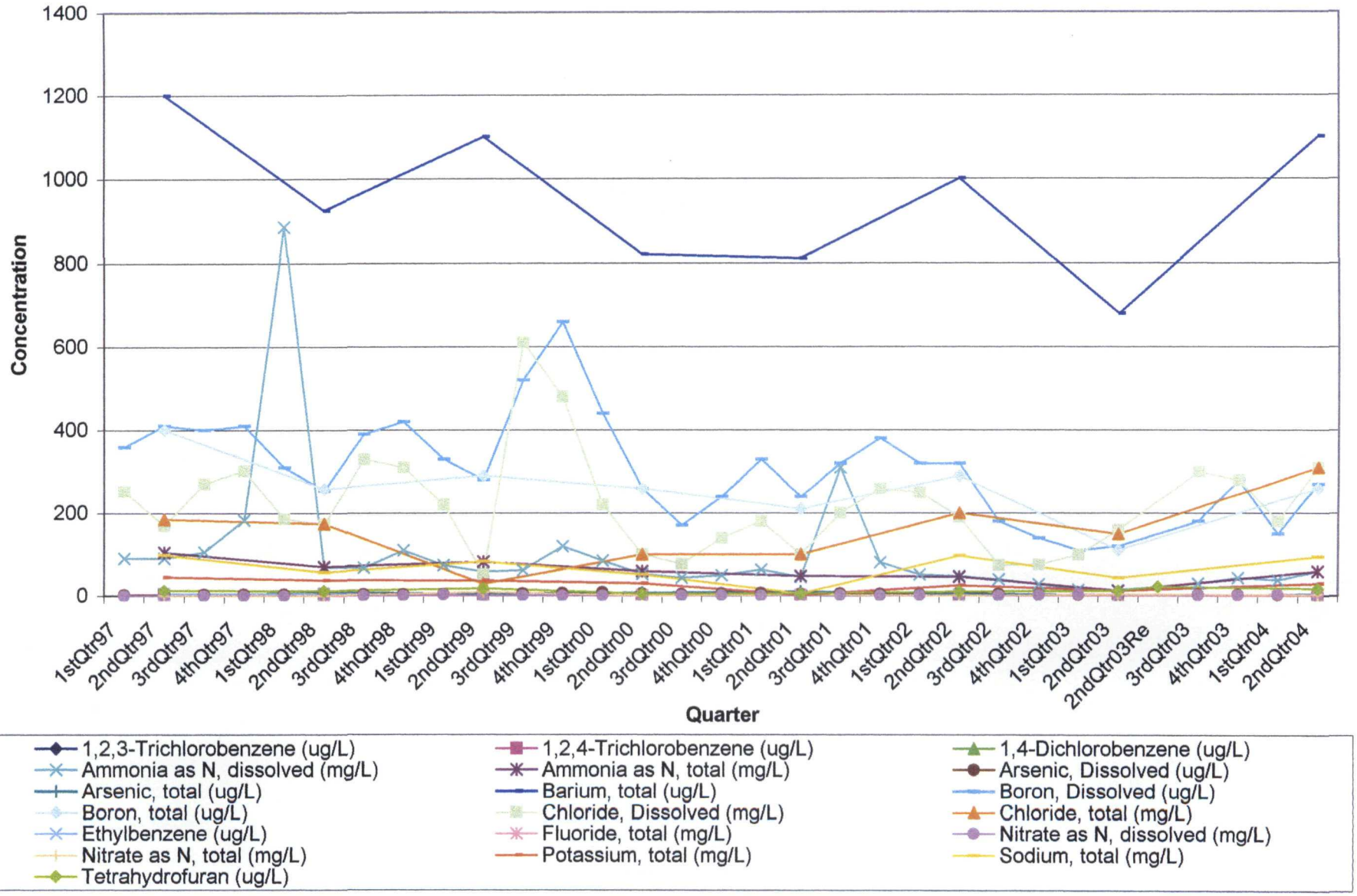


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G37D

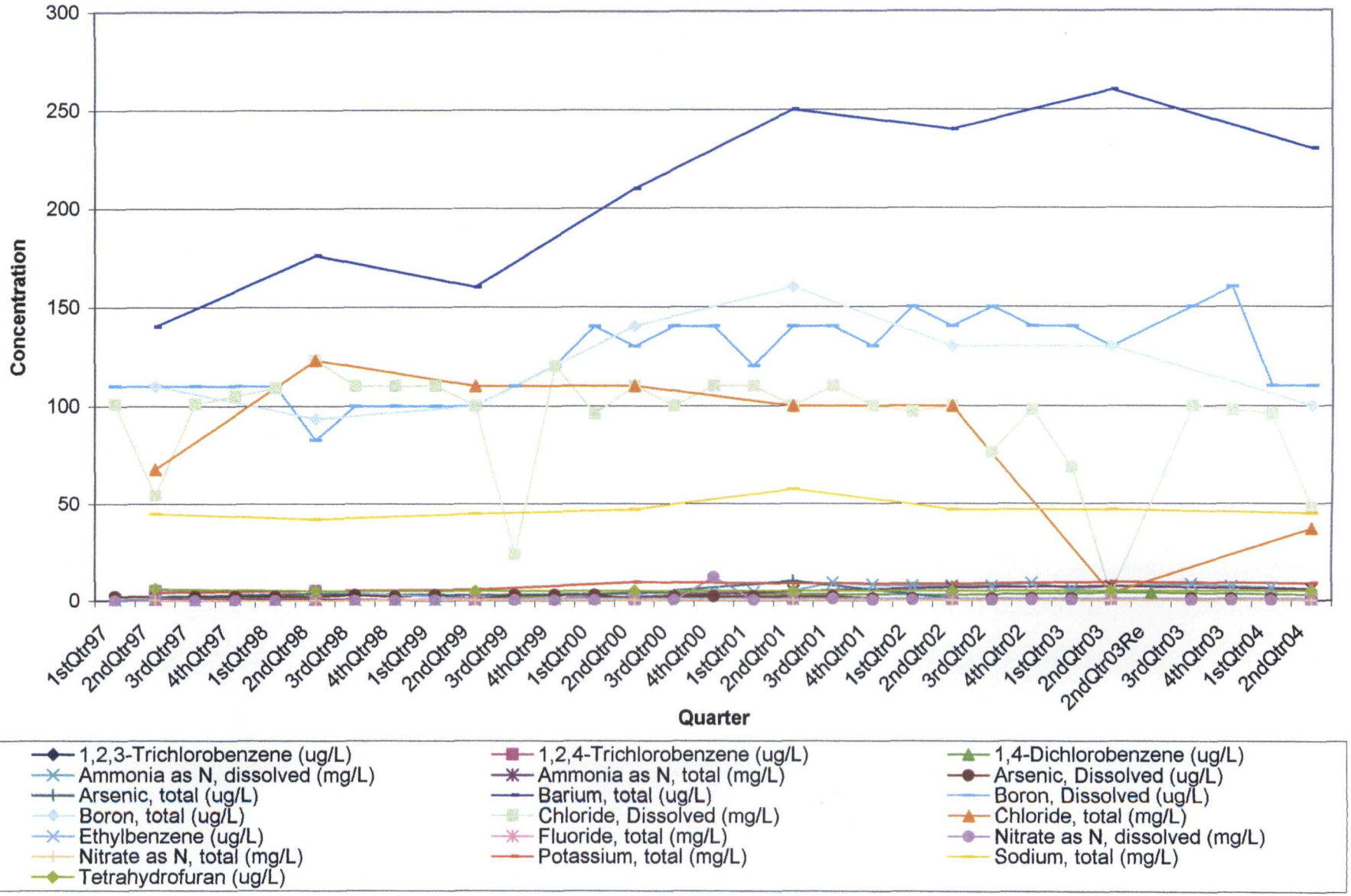
Winnebago Reclamation

Well G38S



Winnebago Reclamation

Well G39S

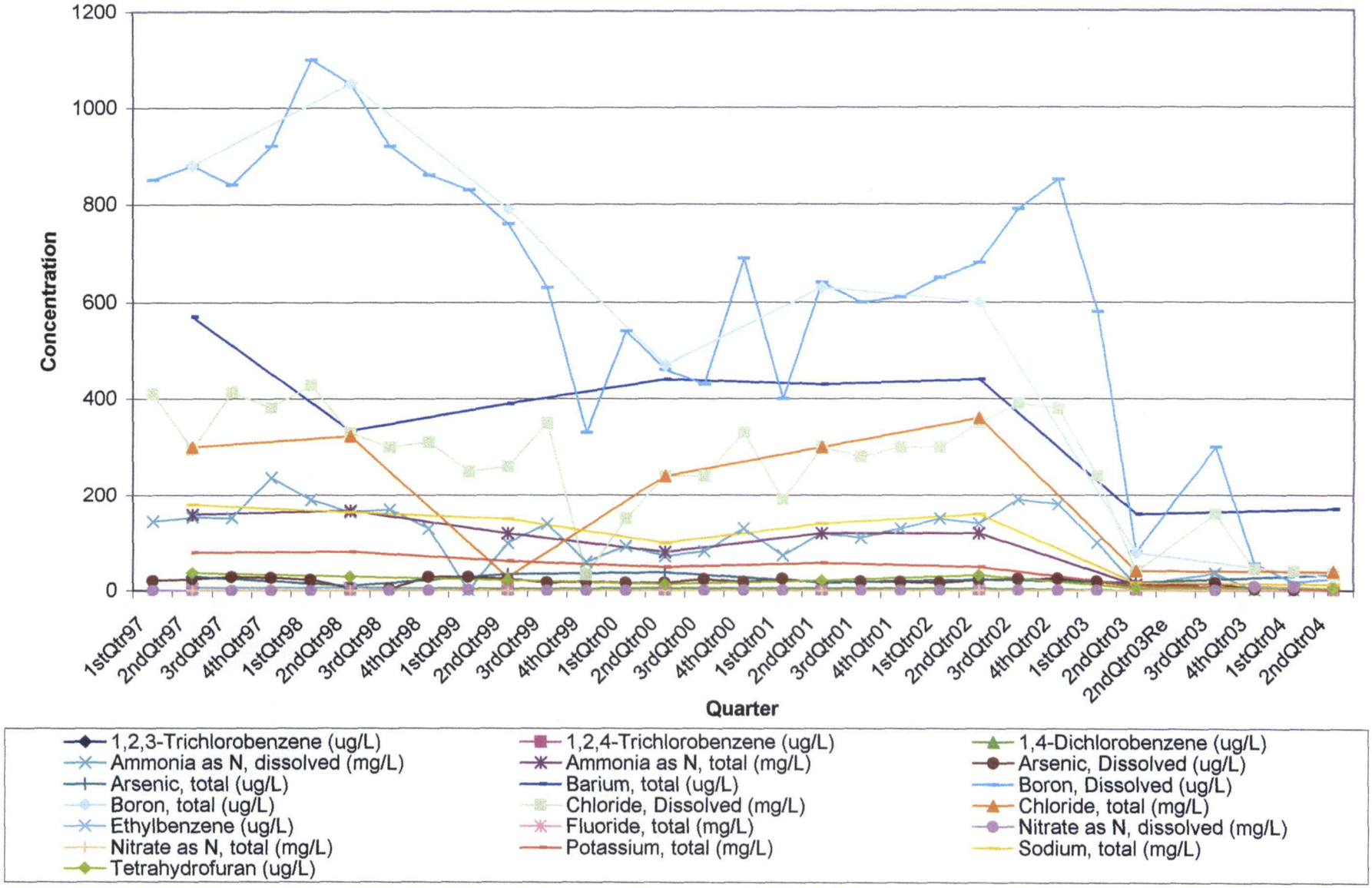


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G39S

Winnebago Reclamation

Well G41M



Andrews Environmental Engineering, Inc.

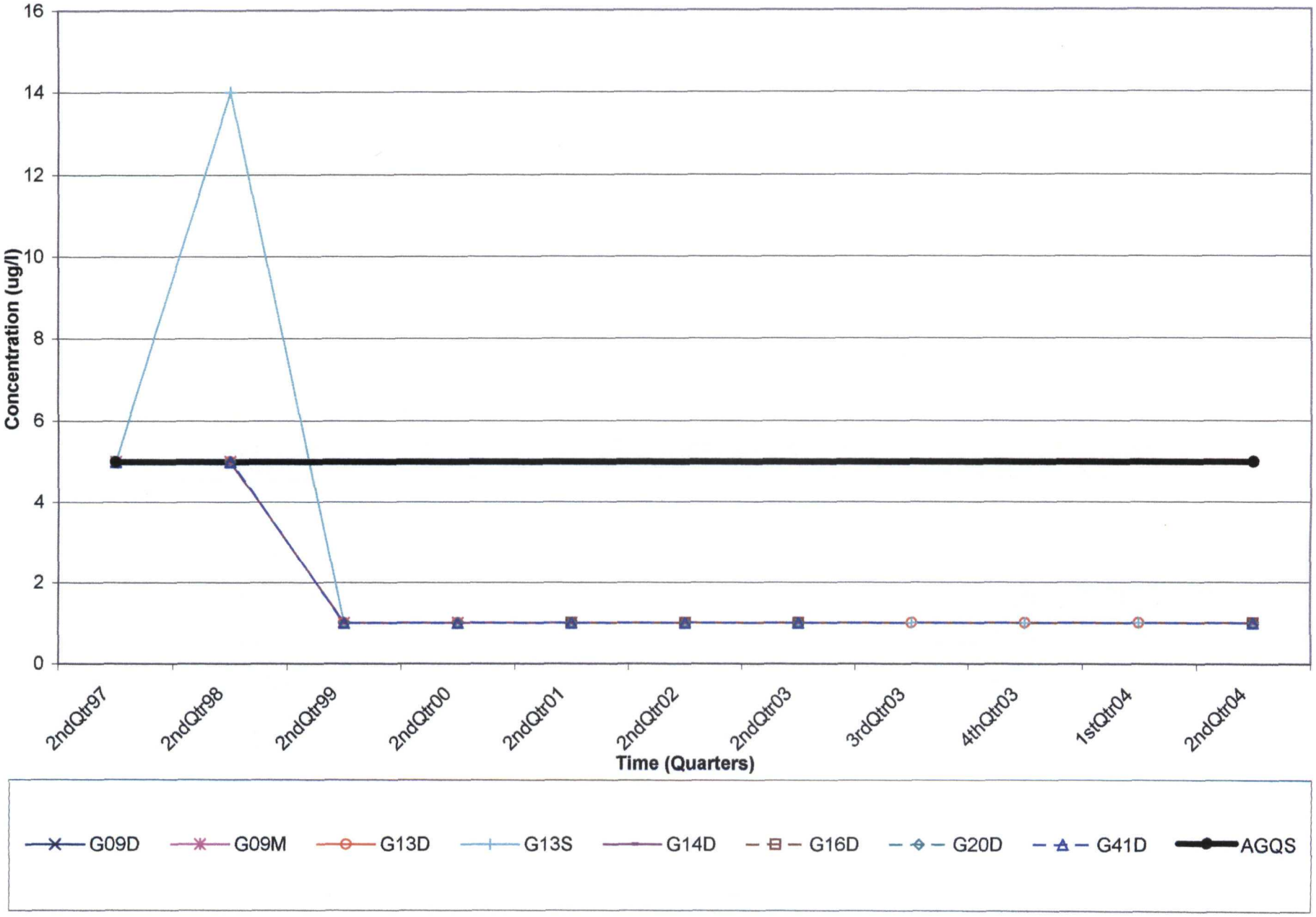
GMZ Graphs 2004 by Well 7-1-04
G41M

APPENDIX G

BEDROCK TREND GRAPHS

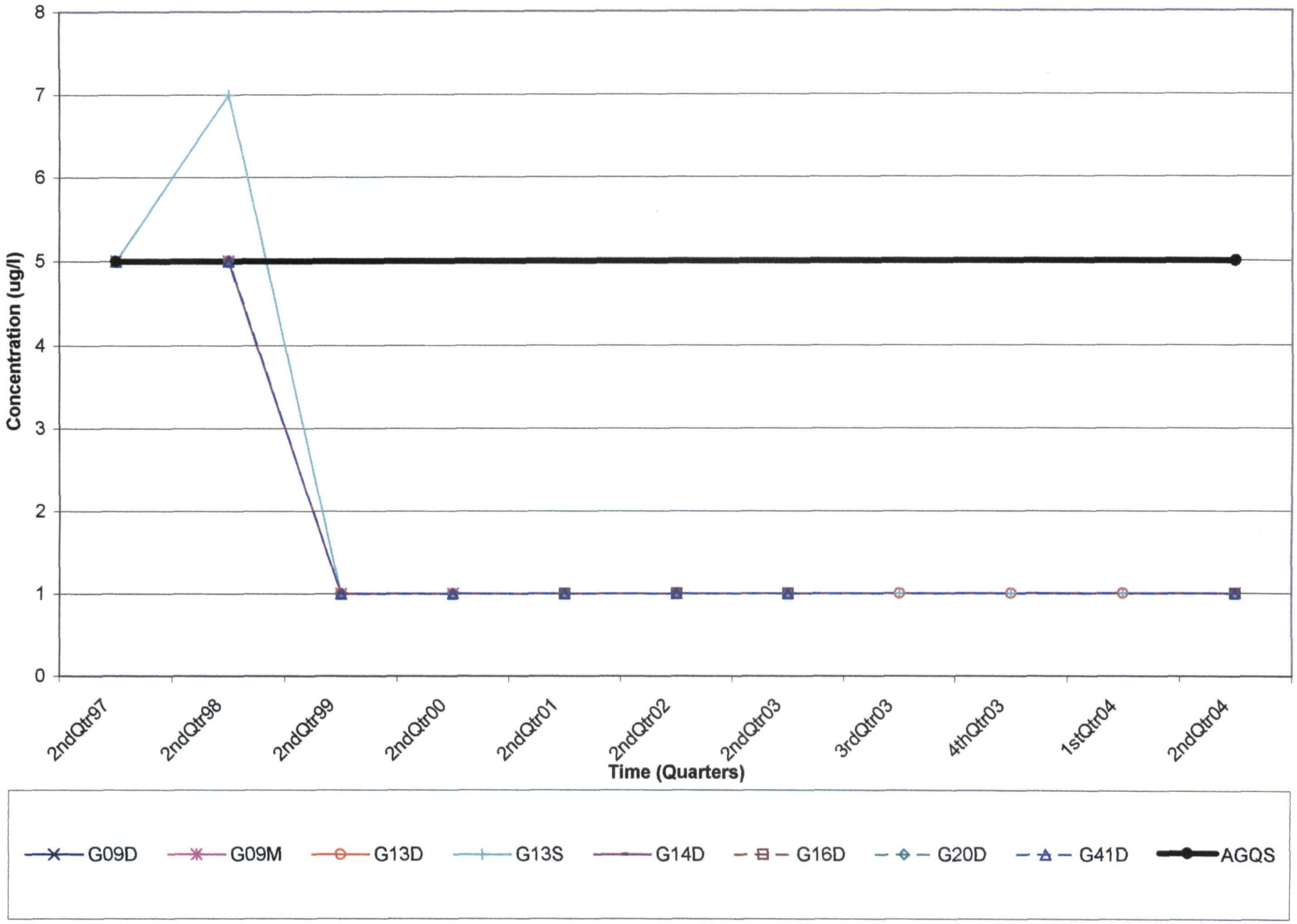
GMZ Parameter Specific Trend Graphs

Winnebago Reclamation - Bedrock Wells
1,2,3-Trichlorobenzene



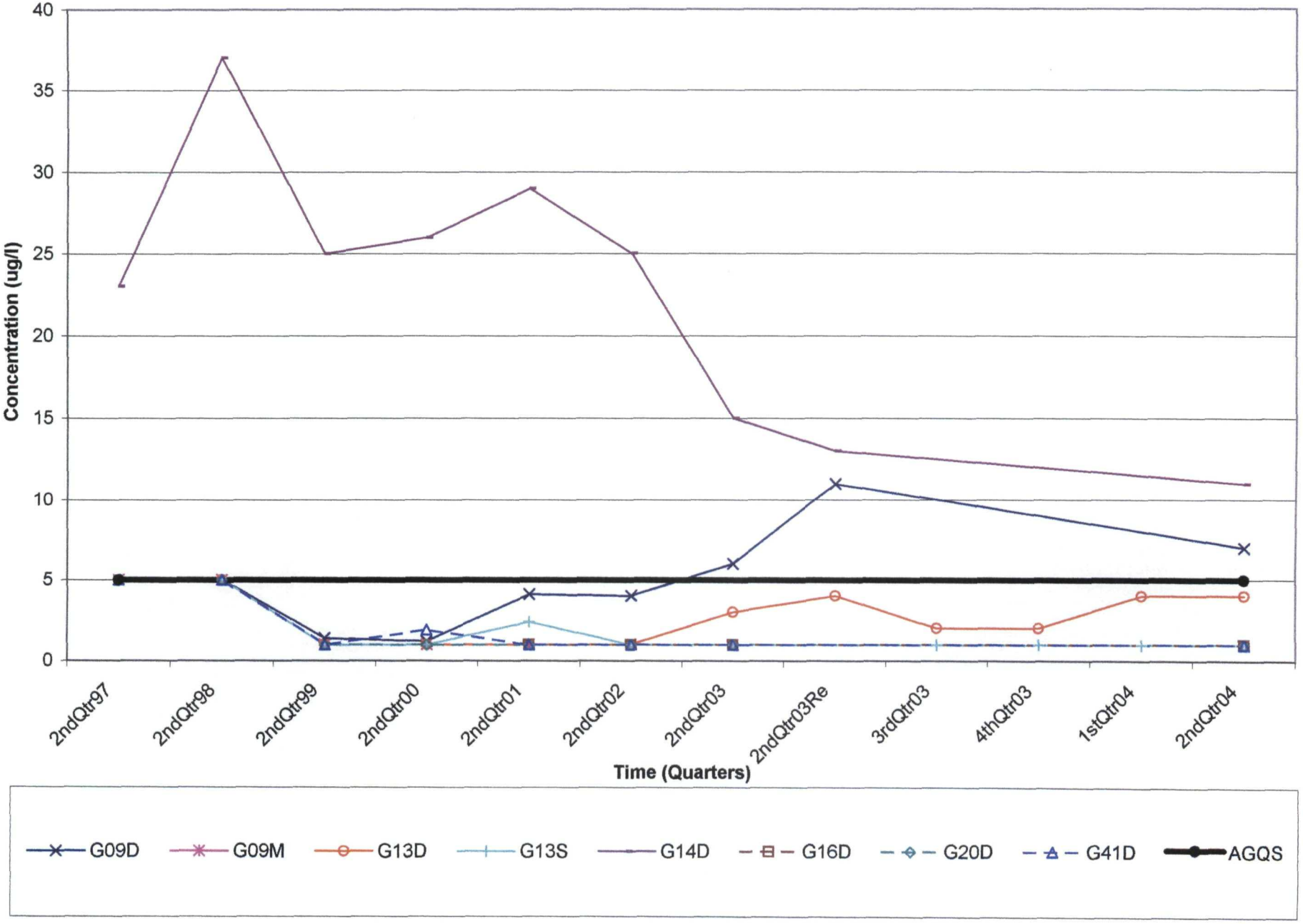
GMZ Graphs 2004 Bedrock color
1,2,3-TCB

Winnebago Reclamation - Bedrock Wells
1,2,4-Trichlorobenzene



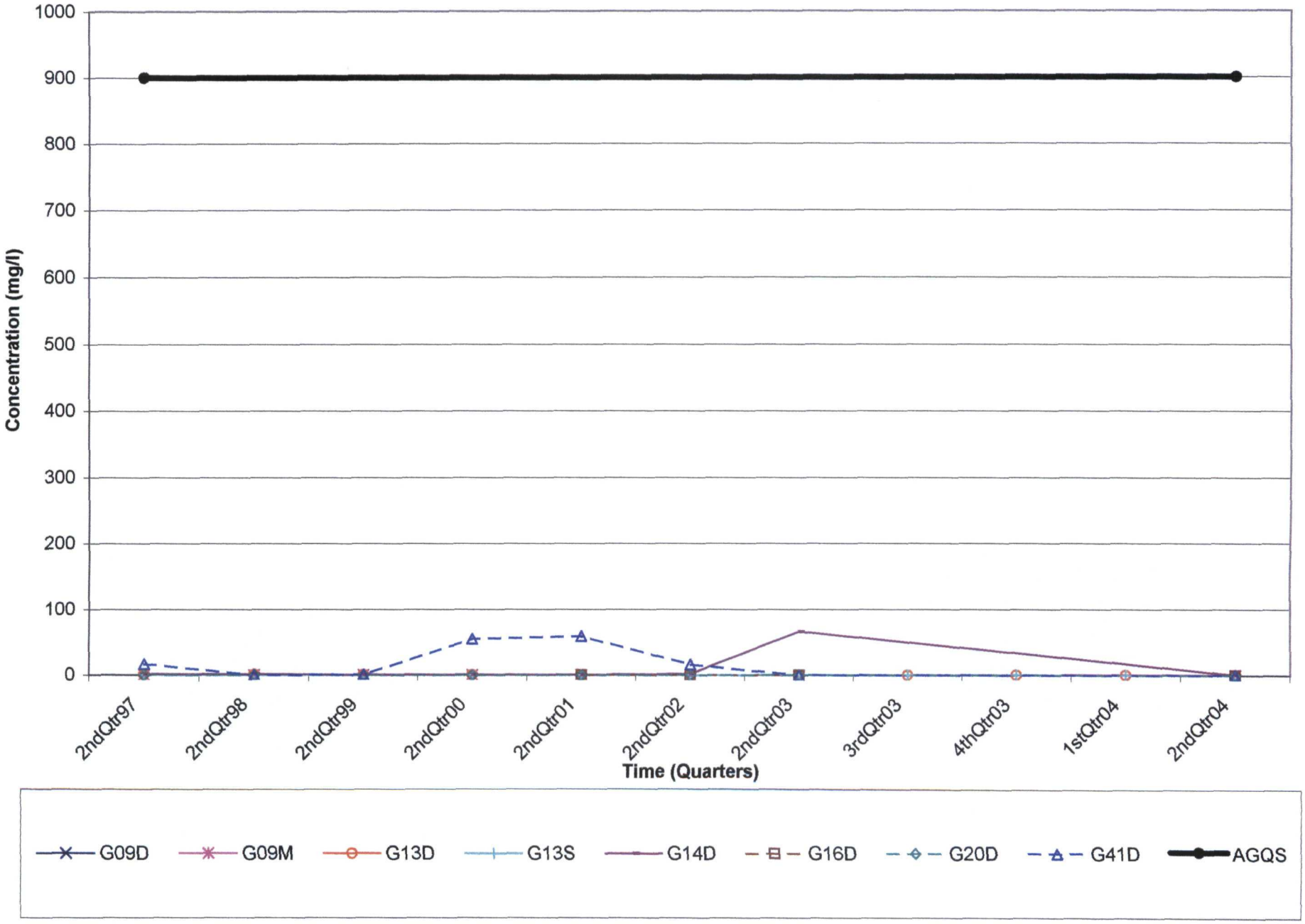
GMZ Graphs 2004 Bedrock color
1,2,4-TCB

Winnebago Reclamation - Bedrock Wells
1,4-Dichlorobenzene



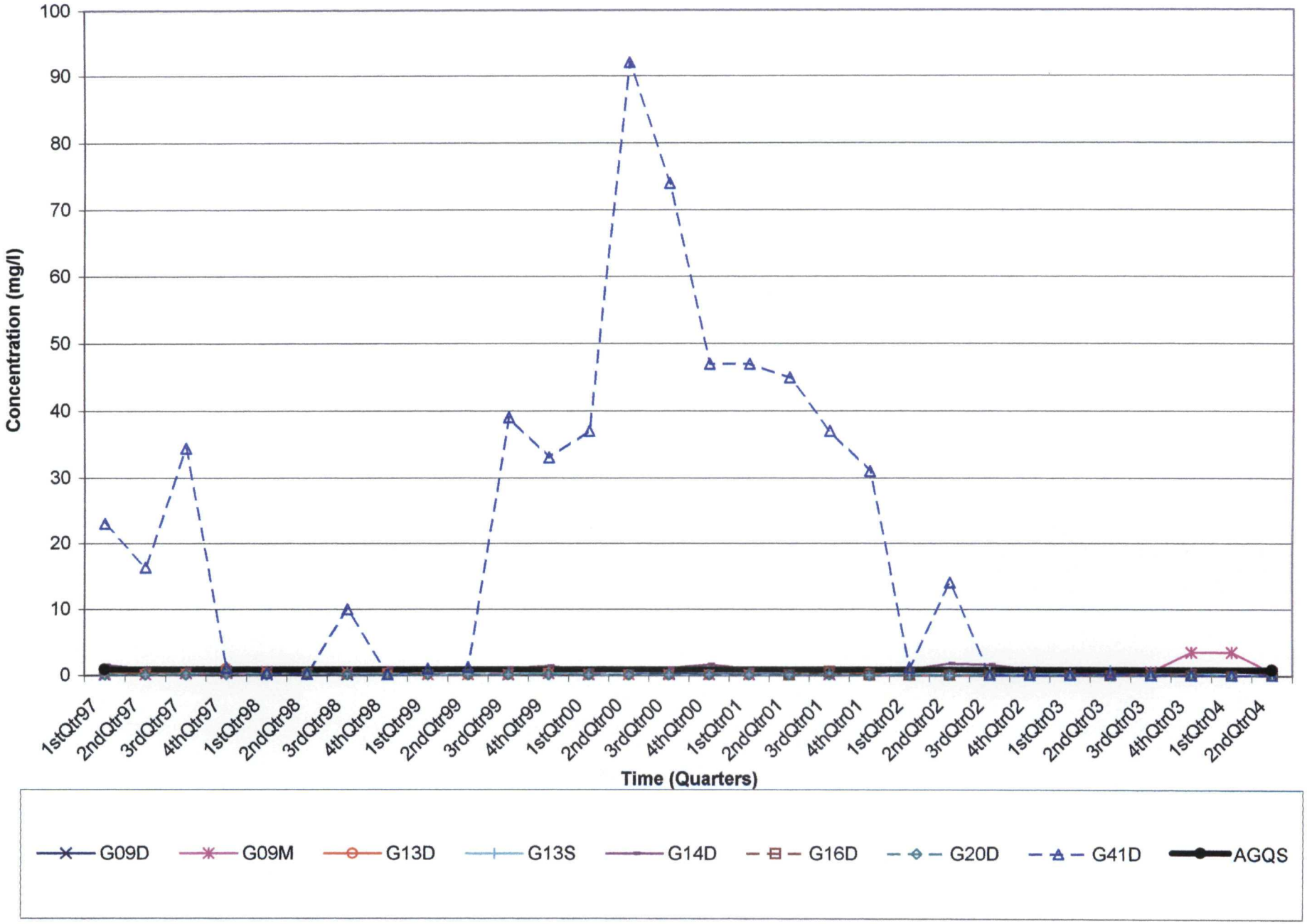
GMZ Graphs 2004 Bedrock color
1,4-DCB

Winnebago Reclamation - Bedrock Wells
Ammonia as N, total



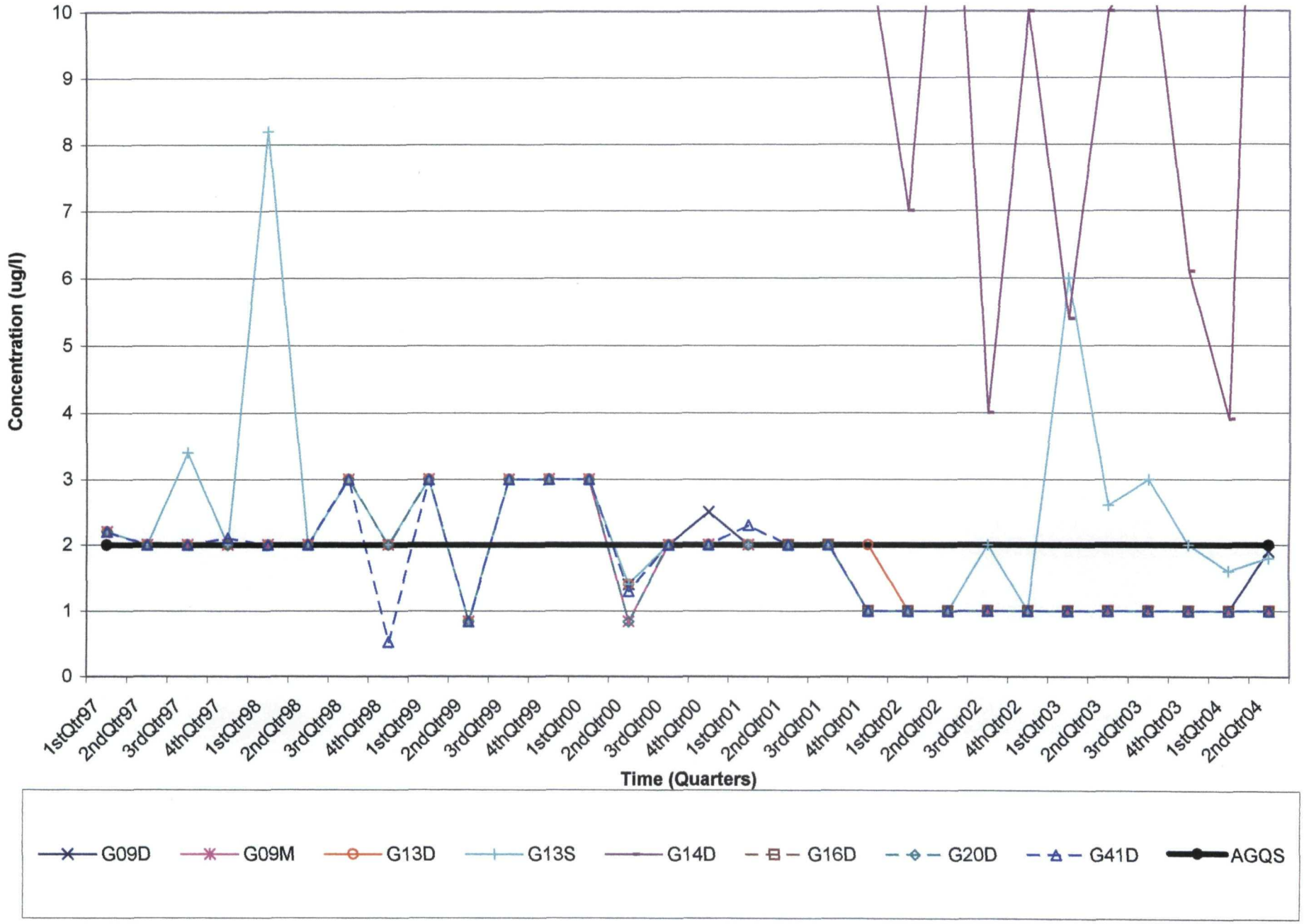
GMZ Graphs 2004 Bedrock color
NH3,t

Winnebago Reclamation - Bedrock Wells
Ammonia as N, dissolved



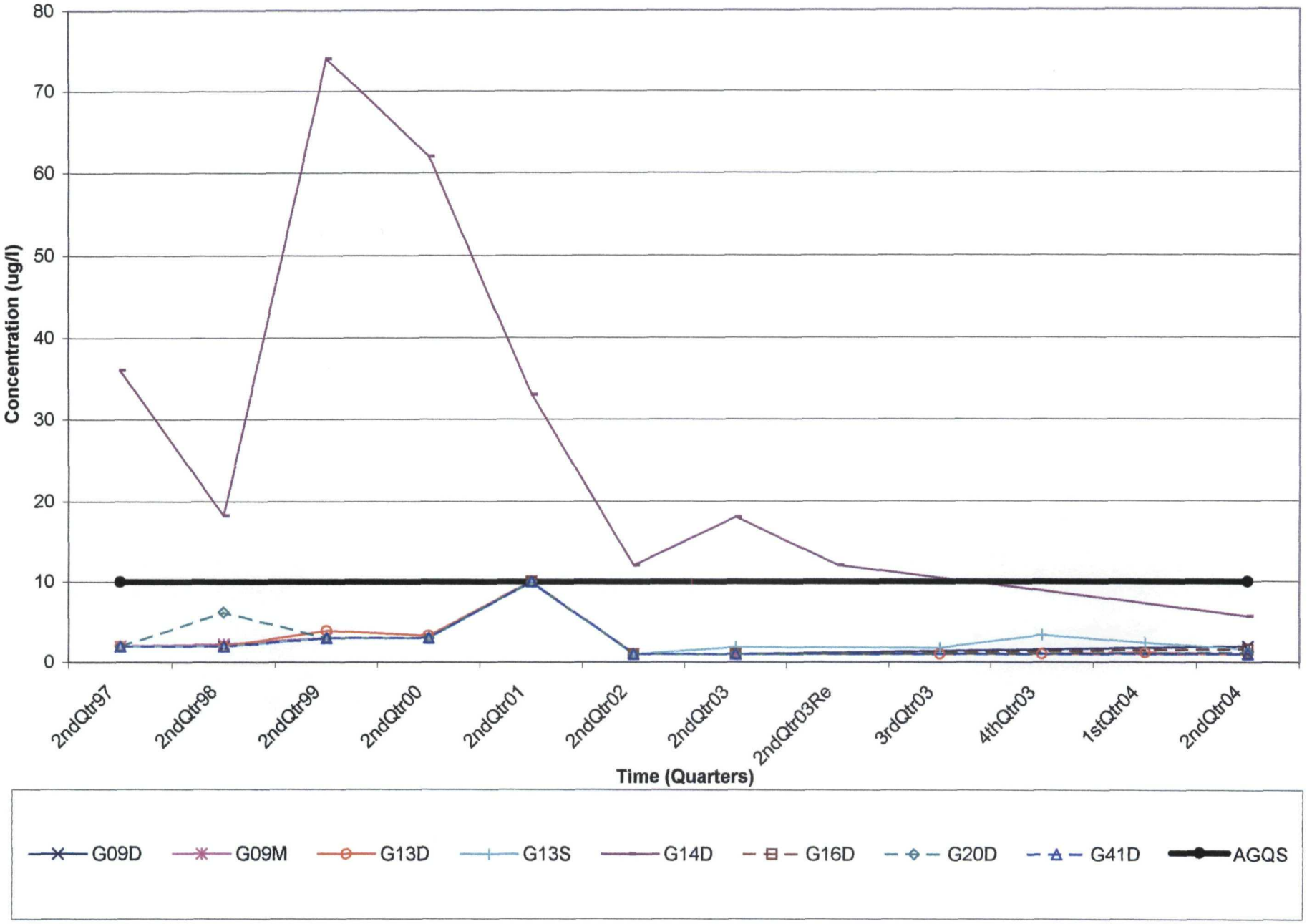
GMZ Graphs 2004 Bedrock color
NH3,d

Winnebago Reclamation - Bedrock Wells
Dissolved Arsenic



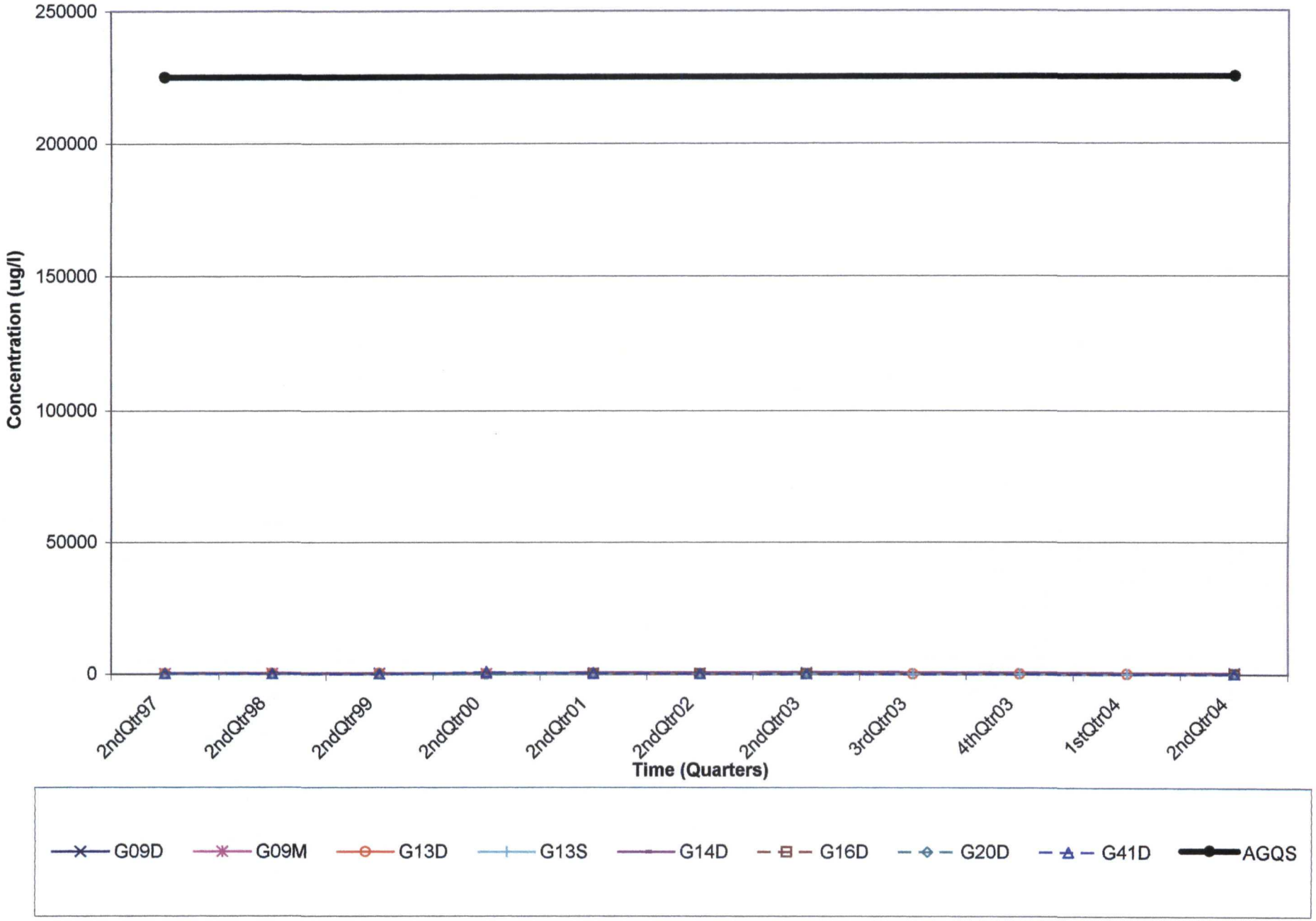
GMZ Graphs 2004 Bedrock color
As,d scale

Winnebago Reclamation - Bedrock Wells
Total Arsenic



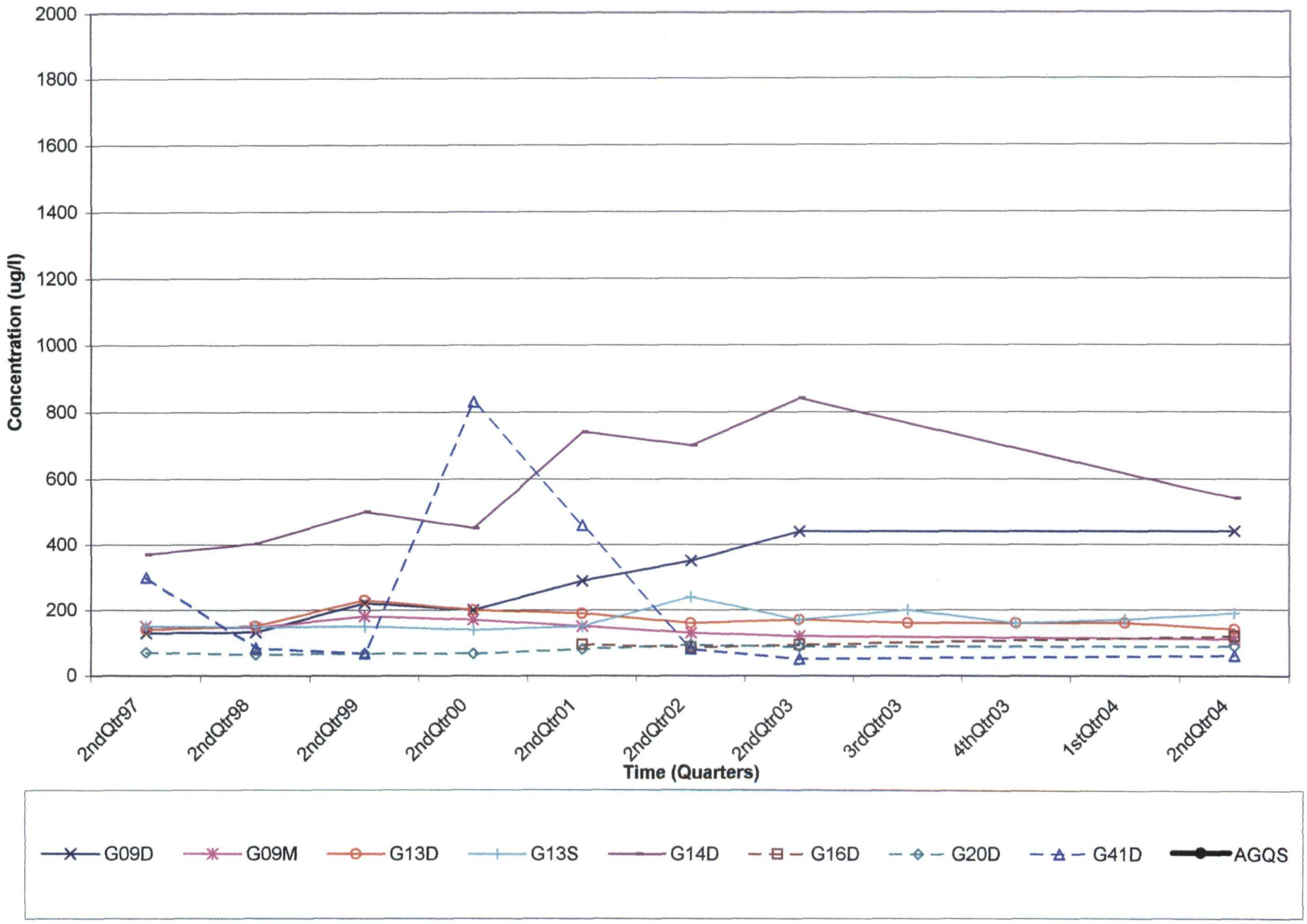
GMZ Graphs 2004 Bedrock color
As,t

Winnebago Reclamation - Bedrock Wells
Total Barium



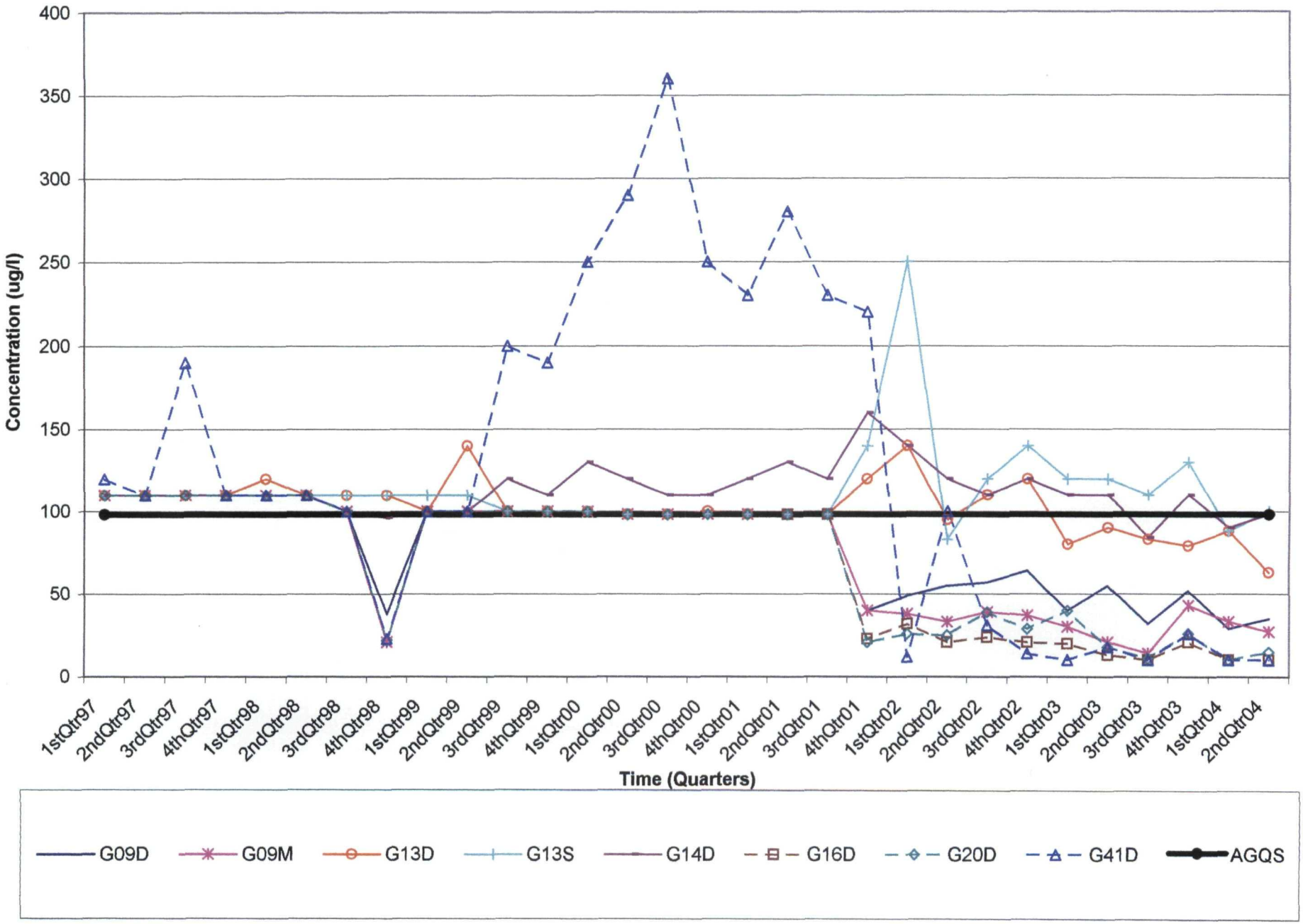
GMZ Graphs 2004 Bedrock color
Ba,t

Winnebago Reclamation - Bedrock Wells
Total Barium



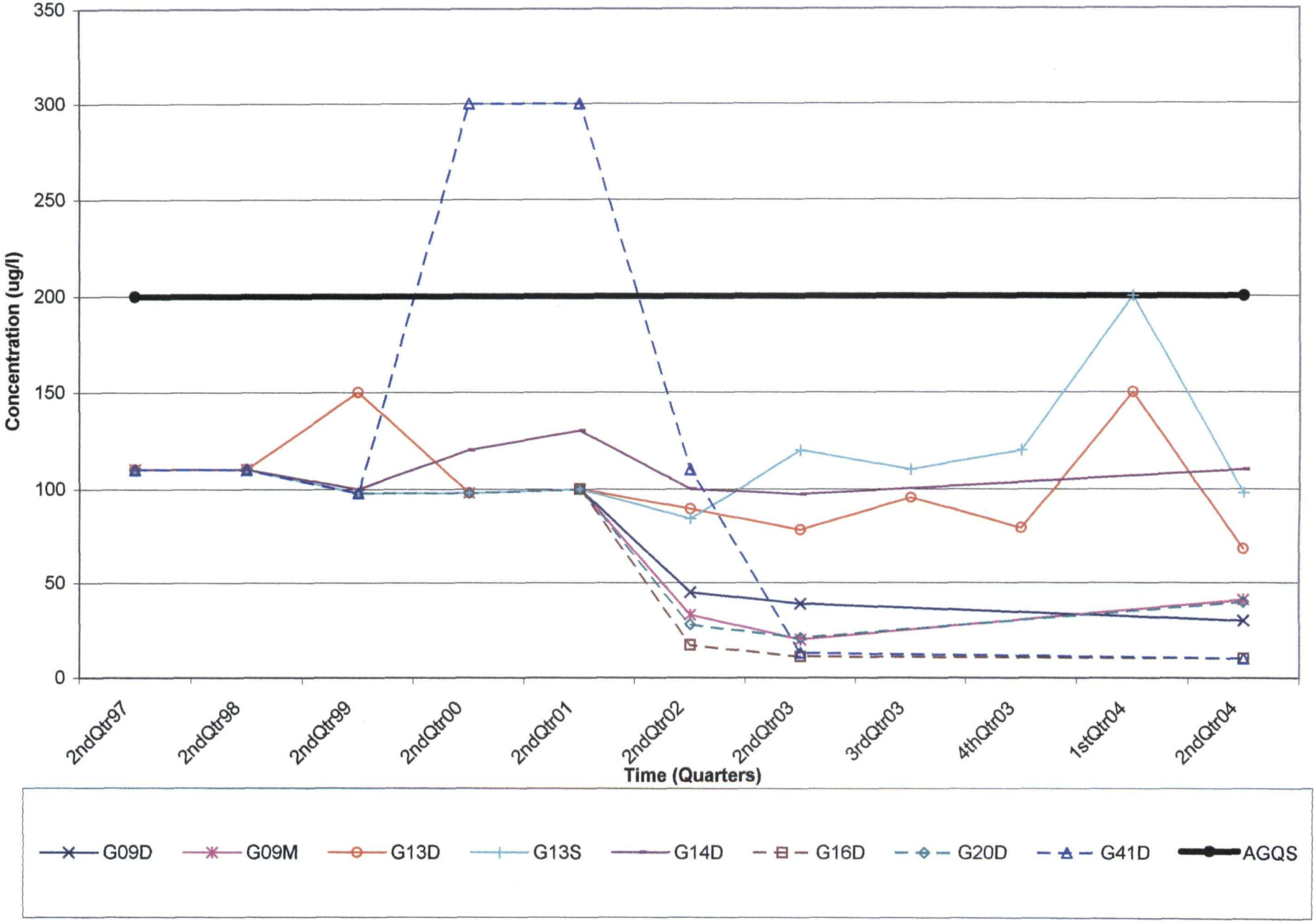
GMZ Graphs 2004 Bedrock color
Ba,t scale

Winnebago Reclamation - Bedrock Wells
Dissolved Boron



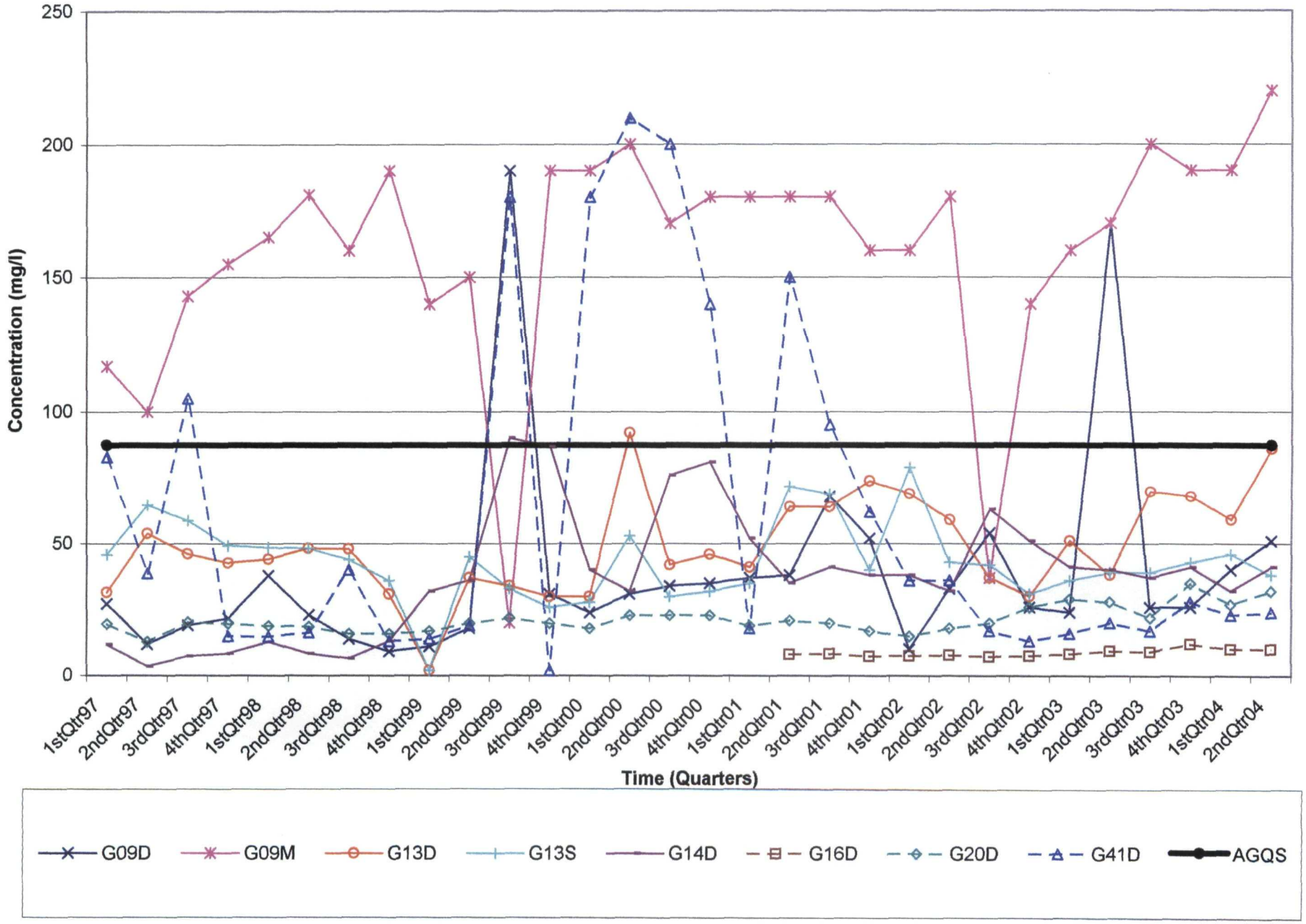
GMZ Graphs 2004 Bedrock color
B,d

Winnebago Reclamation - Bedrock Wells
Total Boron



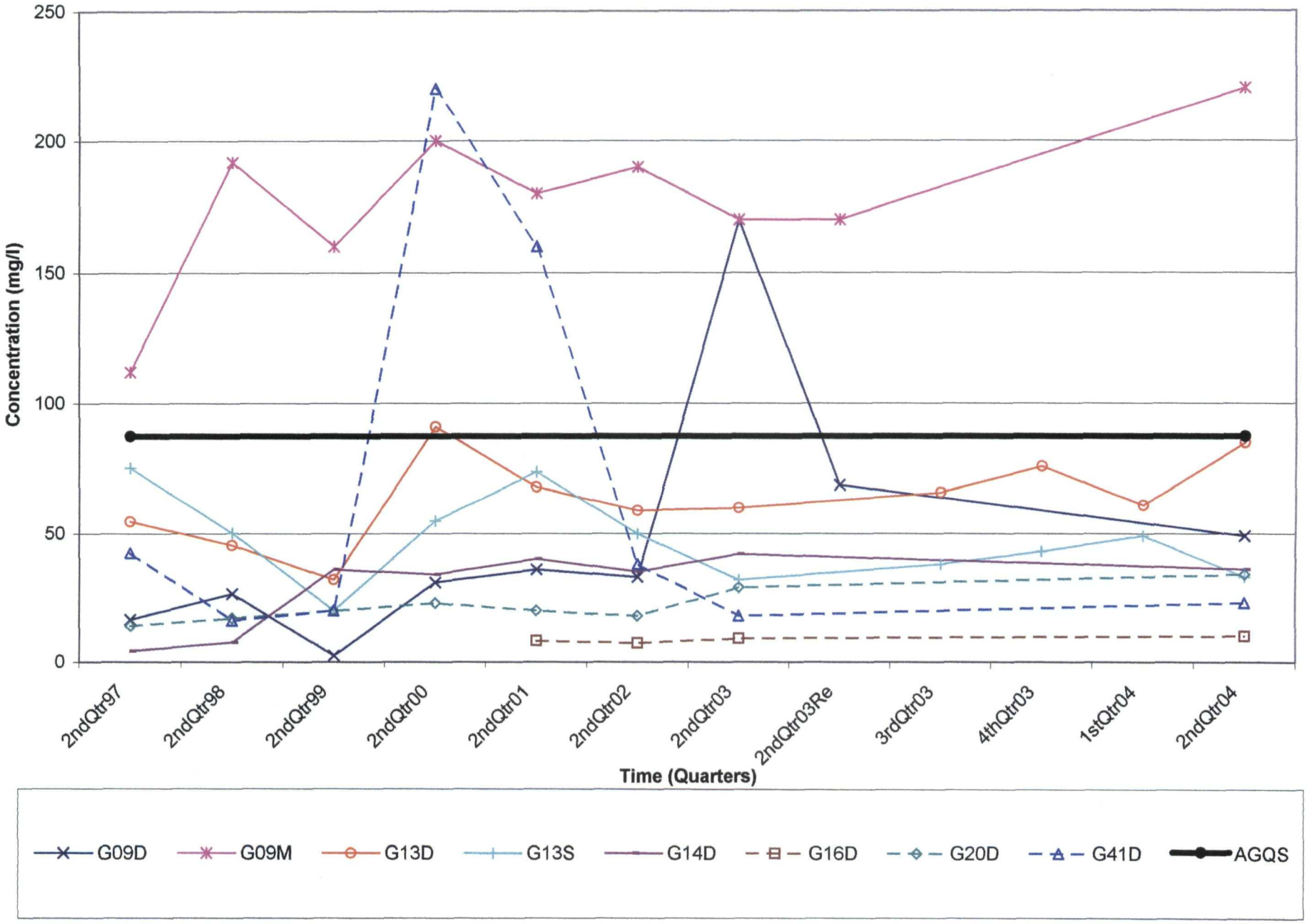
GMZ Graphs 2004 Bedrock color
B,t

Winnebago Reclamation - Bedrock Wells
Dissolved Chloride



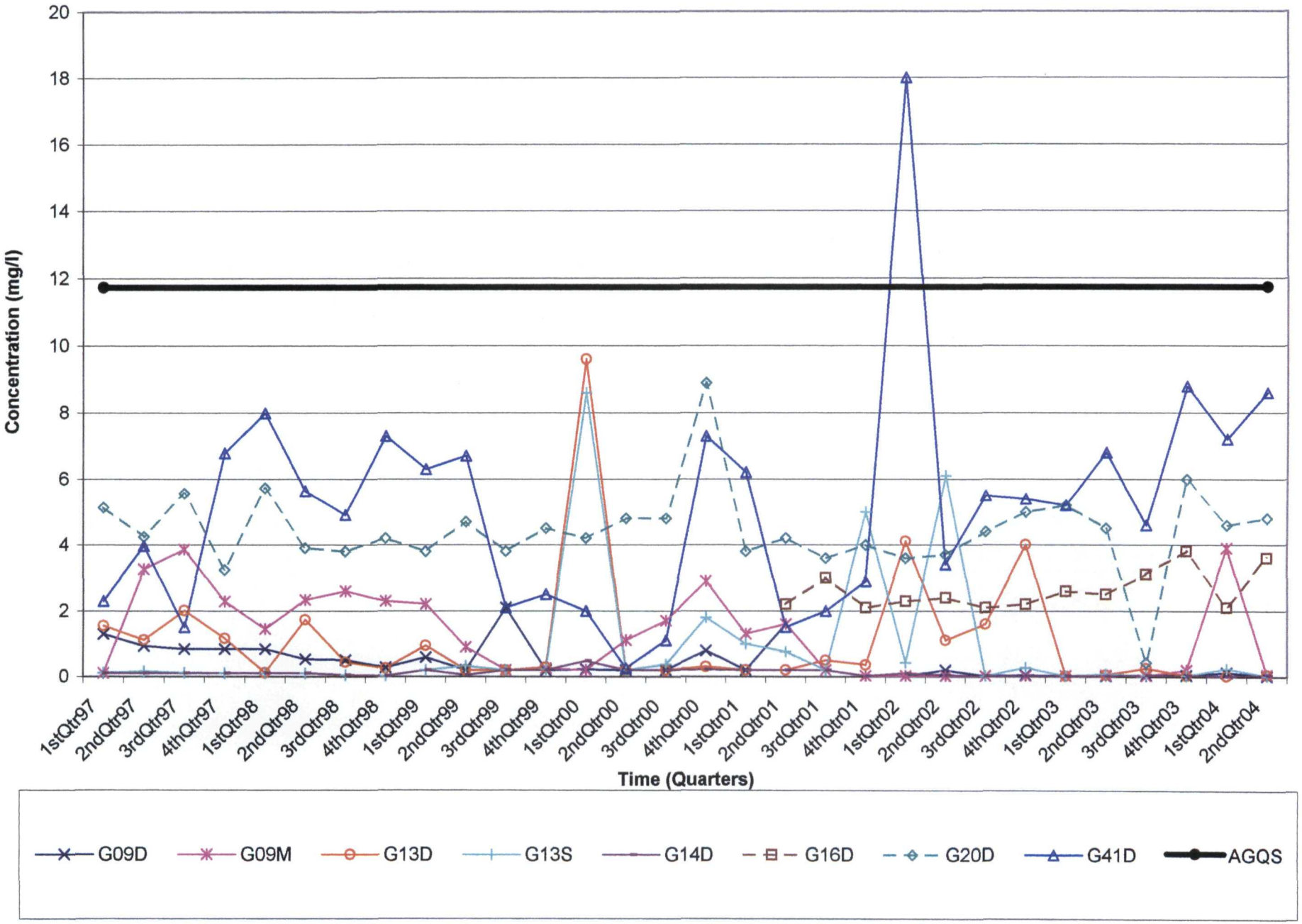
GMZ Graphs 2004 Bedrock color
Cl,d

Winnebago Reclamation - Bedrock Wells
Total Chloride



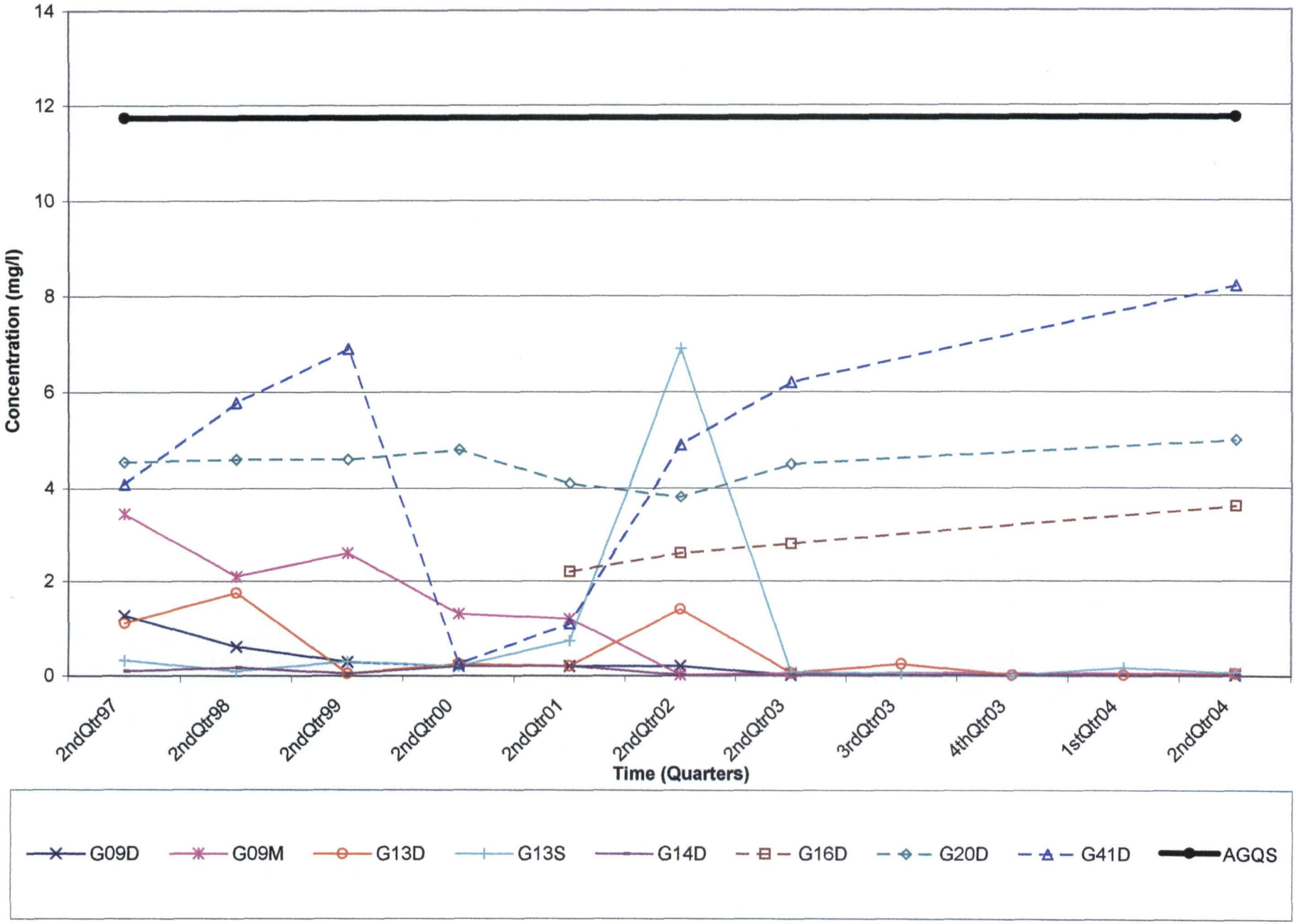
GMZ Graphs 2004 Bedrock color
Cl,t

Winnebago Reclamation - Bedrock Wells
Dissolved Nitrate



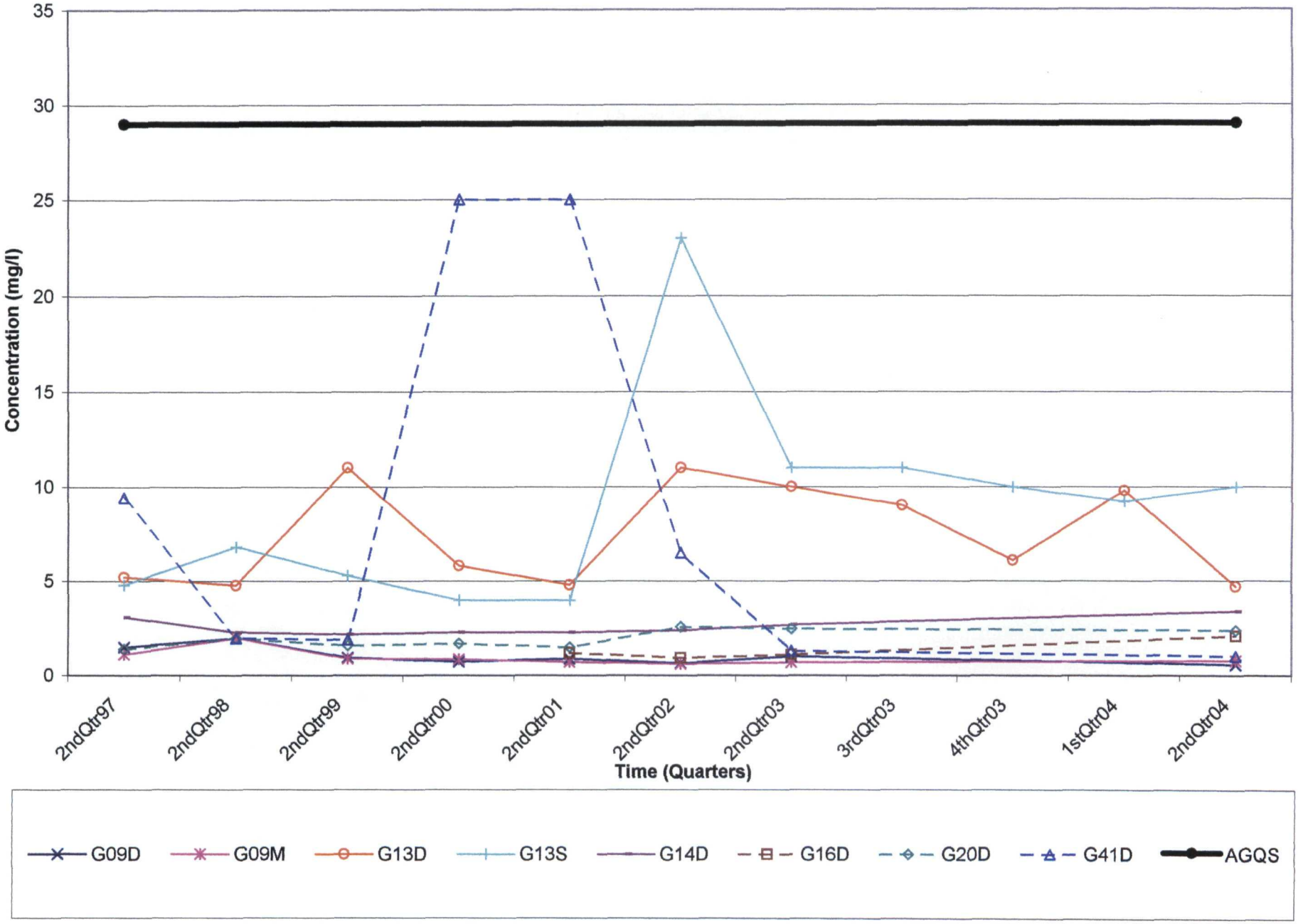
GMZ Graphs 2004 Bedrock color
Nitrate,d

Winnebago Reclamation - Bedrock Wells
Total Nitrate



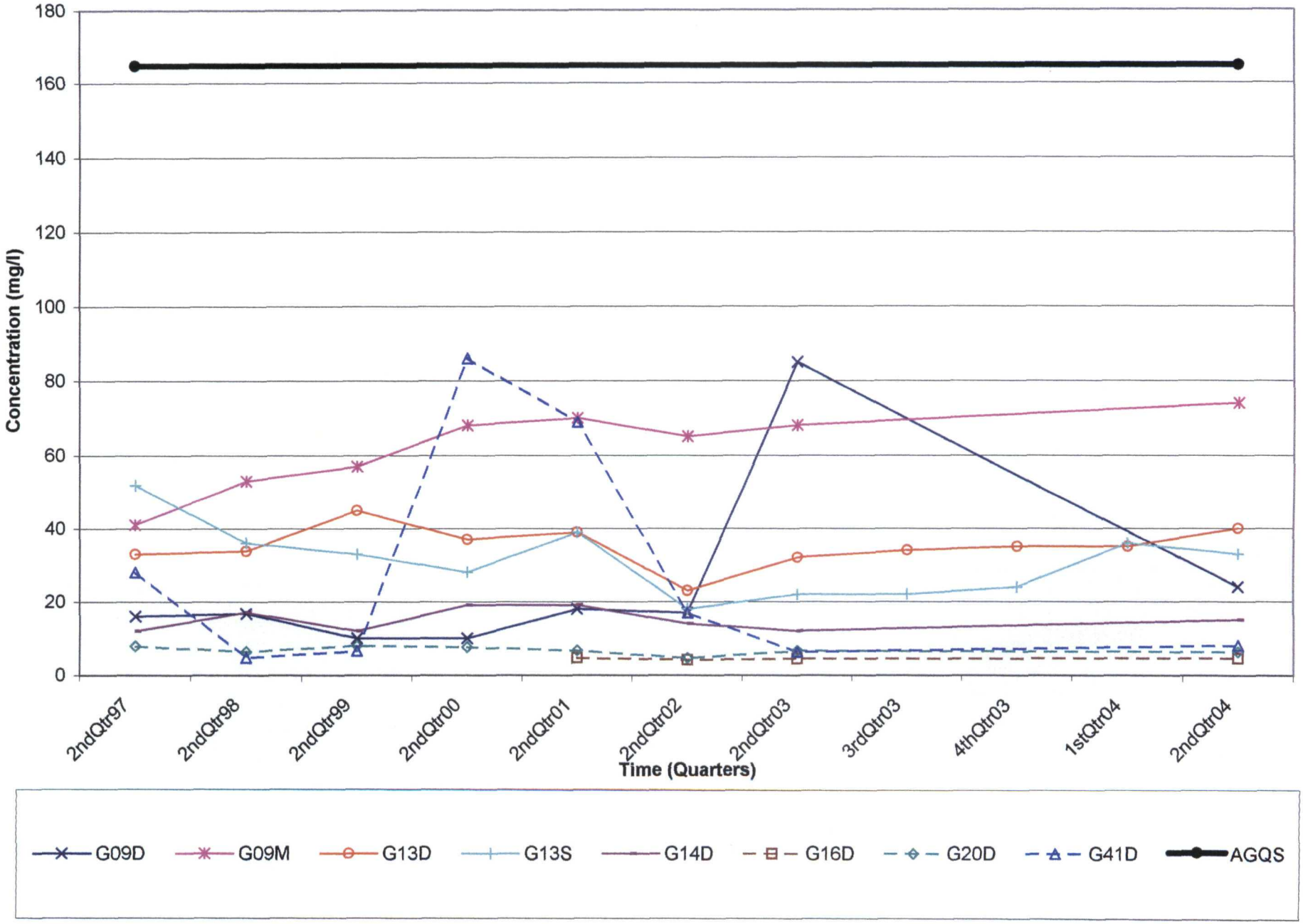
GMZ Graphs 2004 Bedrock color
Nitrate

Winnebago Reclamation - Bedrock Wells
Total Potassium



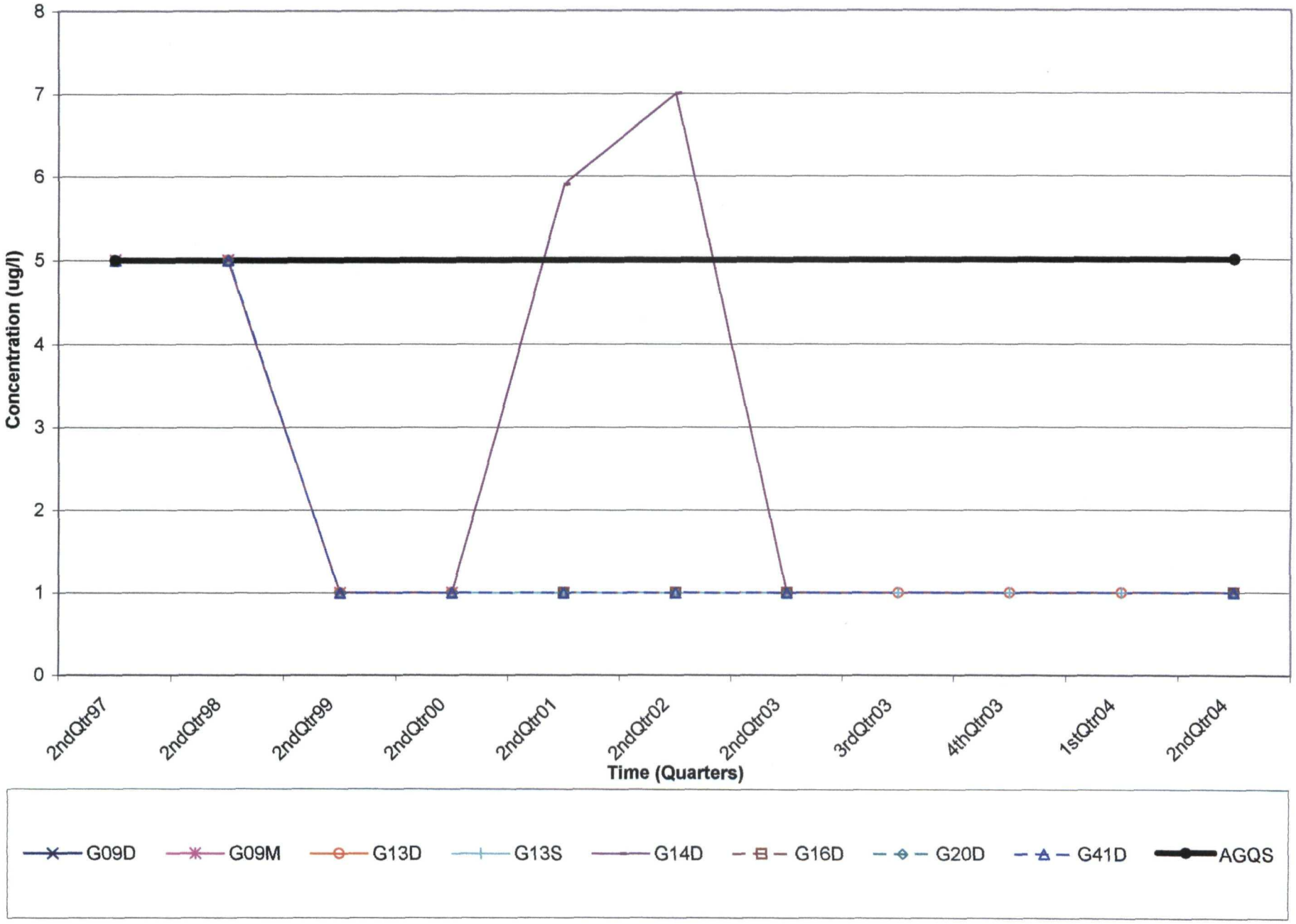
GMZ Graphs 2004 Bedrock color
Potassium

Winnebago Reclamation - Bedrock Wells
Total Sodium



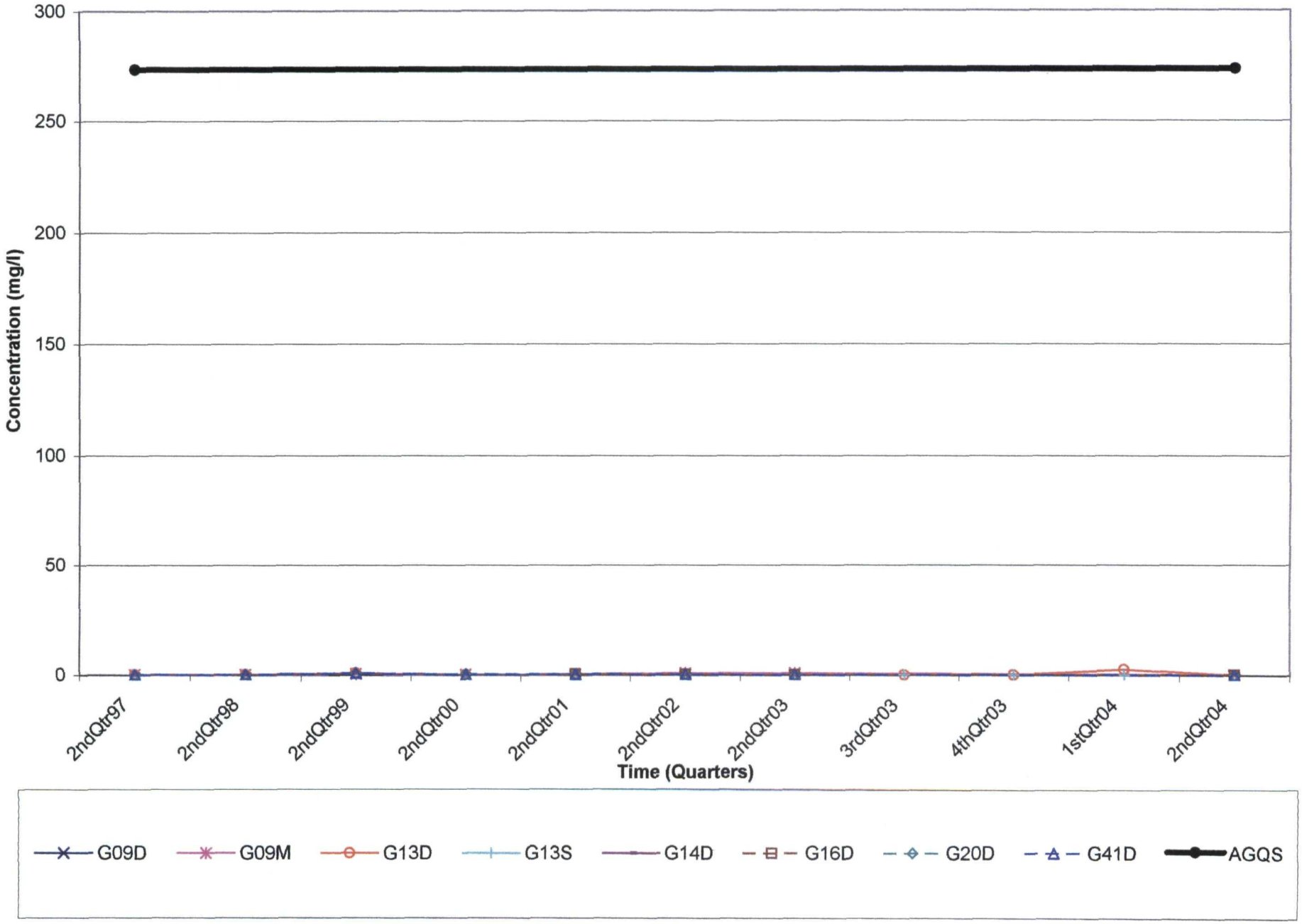
GMZ Graphs 2004 Bedrock color
Sodium

Winnebago Reclamation - Bedrock Wells
Ethylbenzene



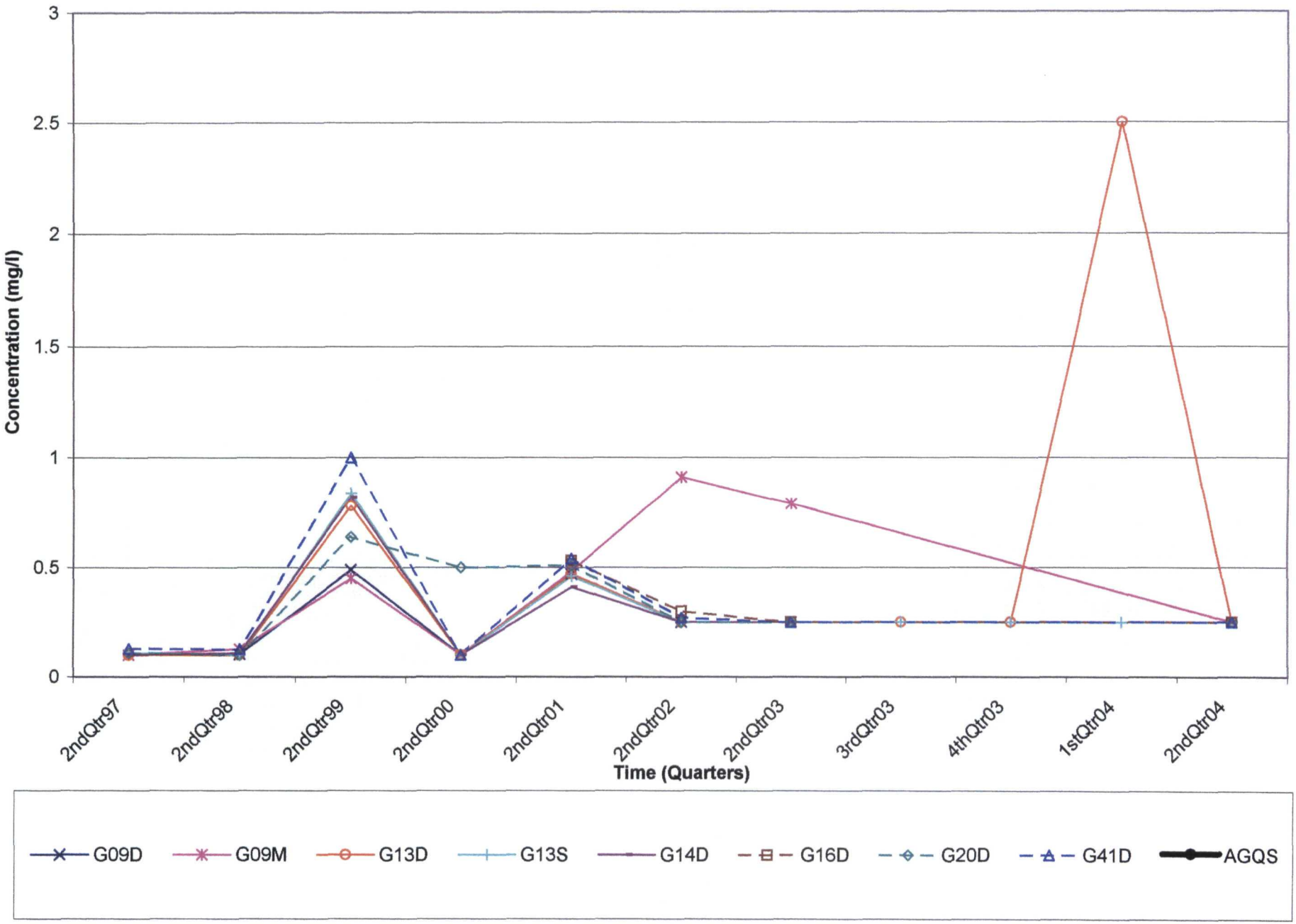
GMZ Graphs 2004 Bedrock color
Ethylbenzene

Winnebago Reclamation - Bedrock Wells
Total Fluoride



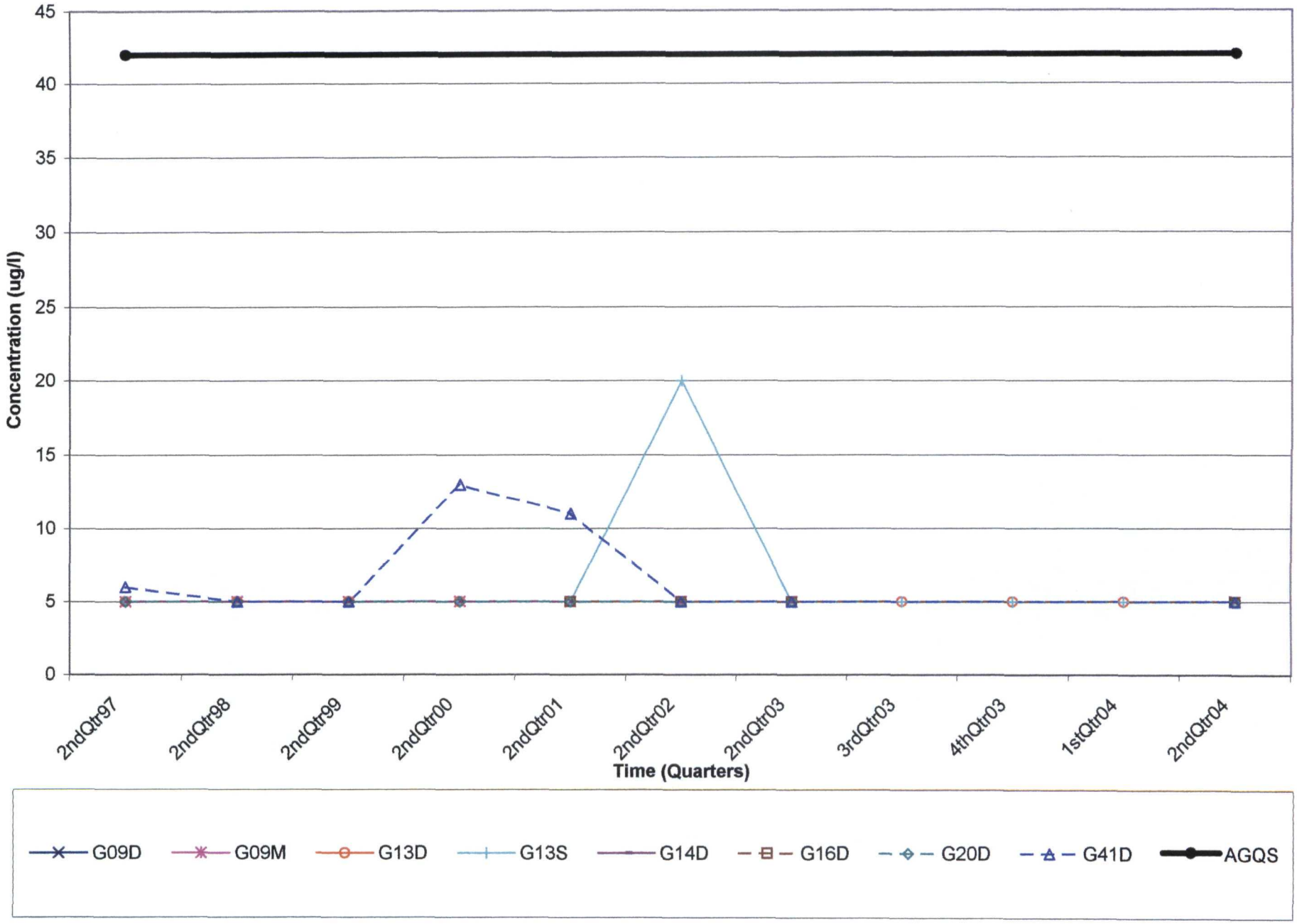
GMZ Graphs 2004 Bedrock color
Fluoride

Winnebago Reclamation - Bedrock Wells
Total Fluoride



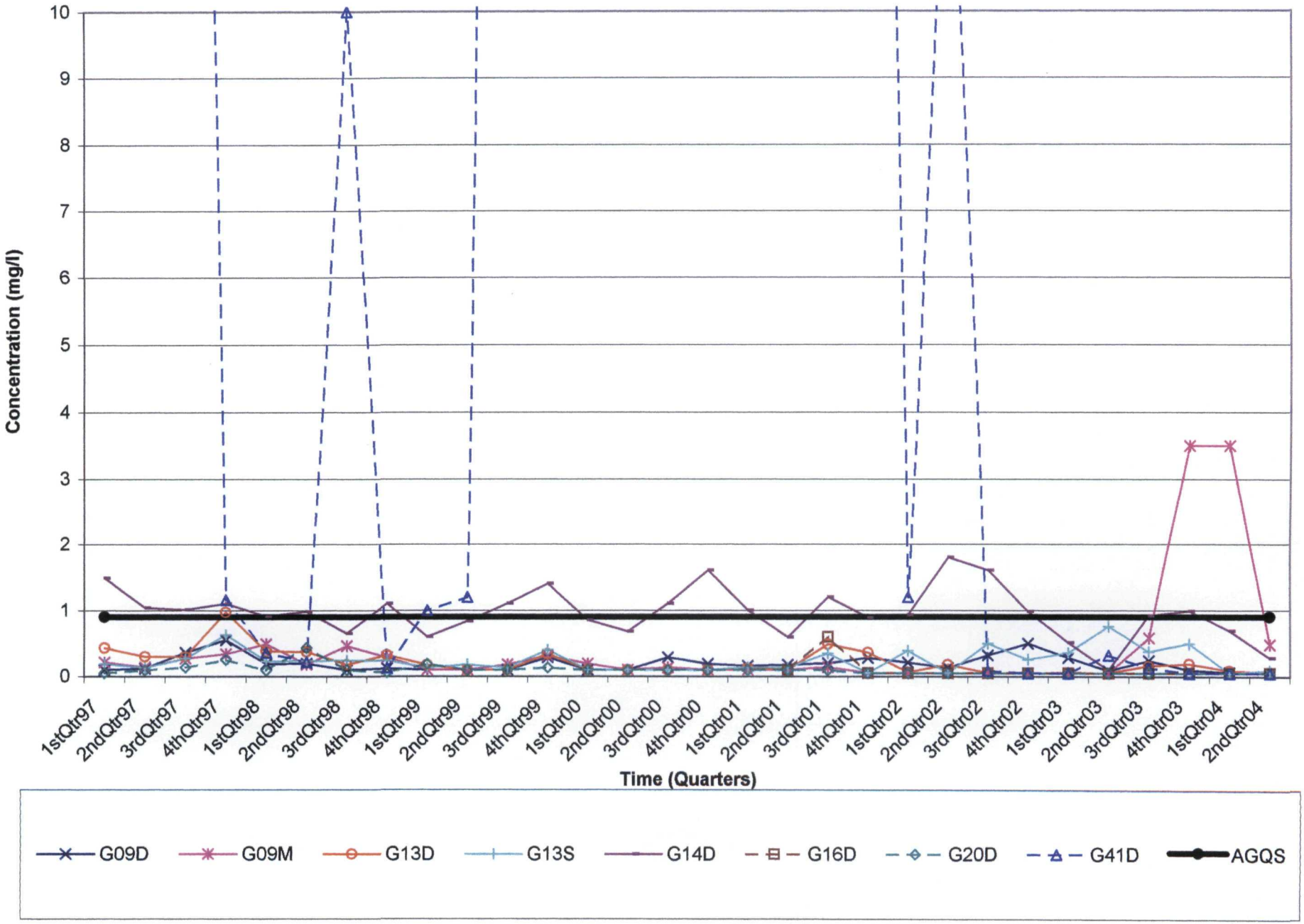
GMZ Graphs 2004 Bedrock color
Fluoride scale

Winnebago Reclamation - Bedrock Wells
Tetrahydrofuran



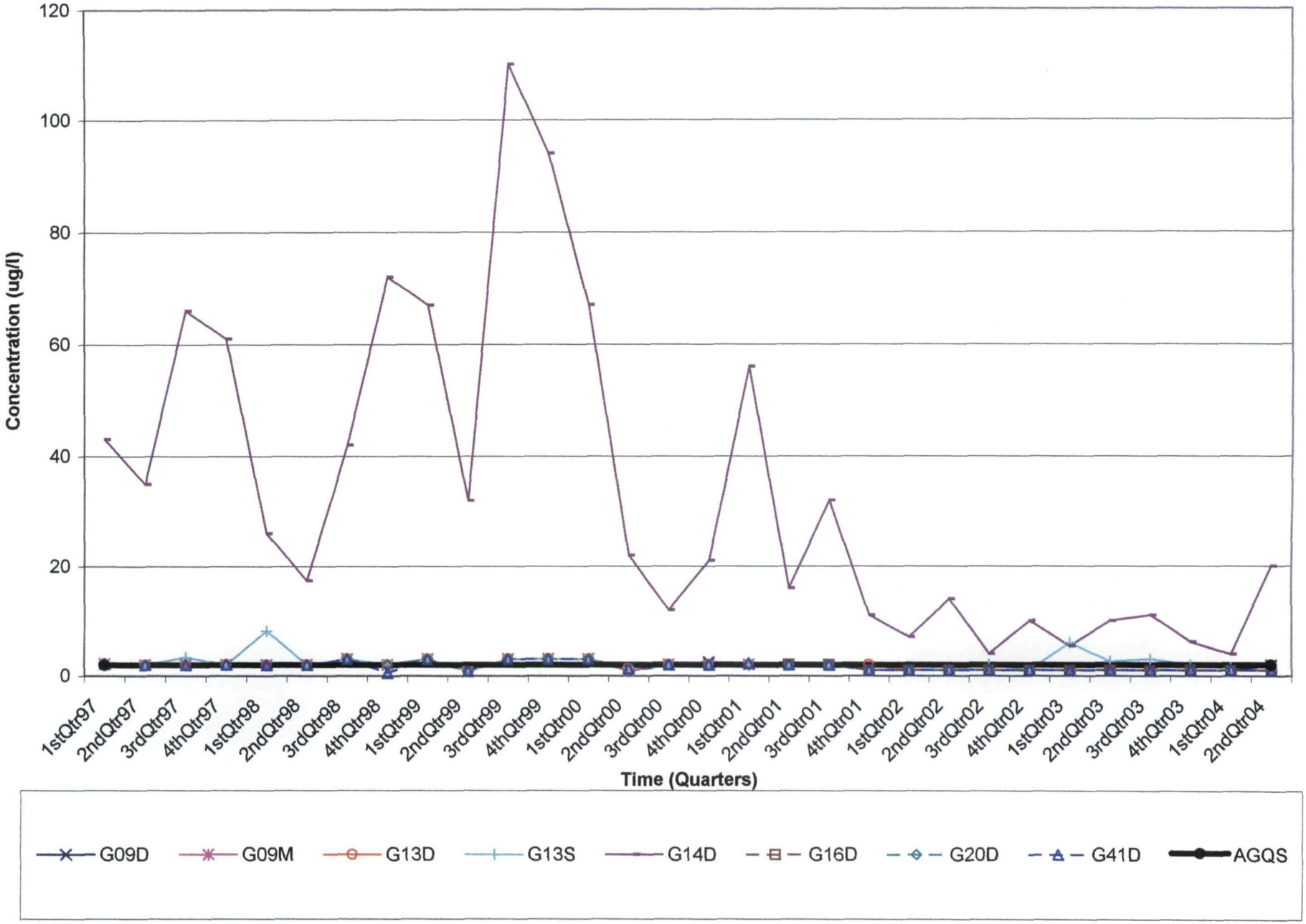
GMZ Graphs 2004 Bedrock color
Tetrahydrofuran

Winnebago Reclamation - Bedrock Wells
Ammonia as N, dissolved



GMZ Graphs 2004 Bedrock color
NH3,d scale

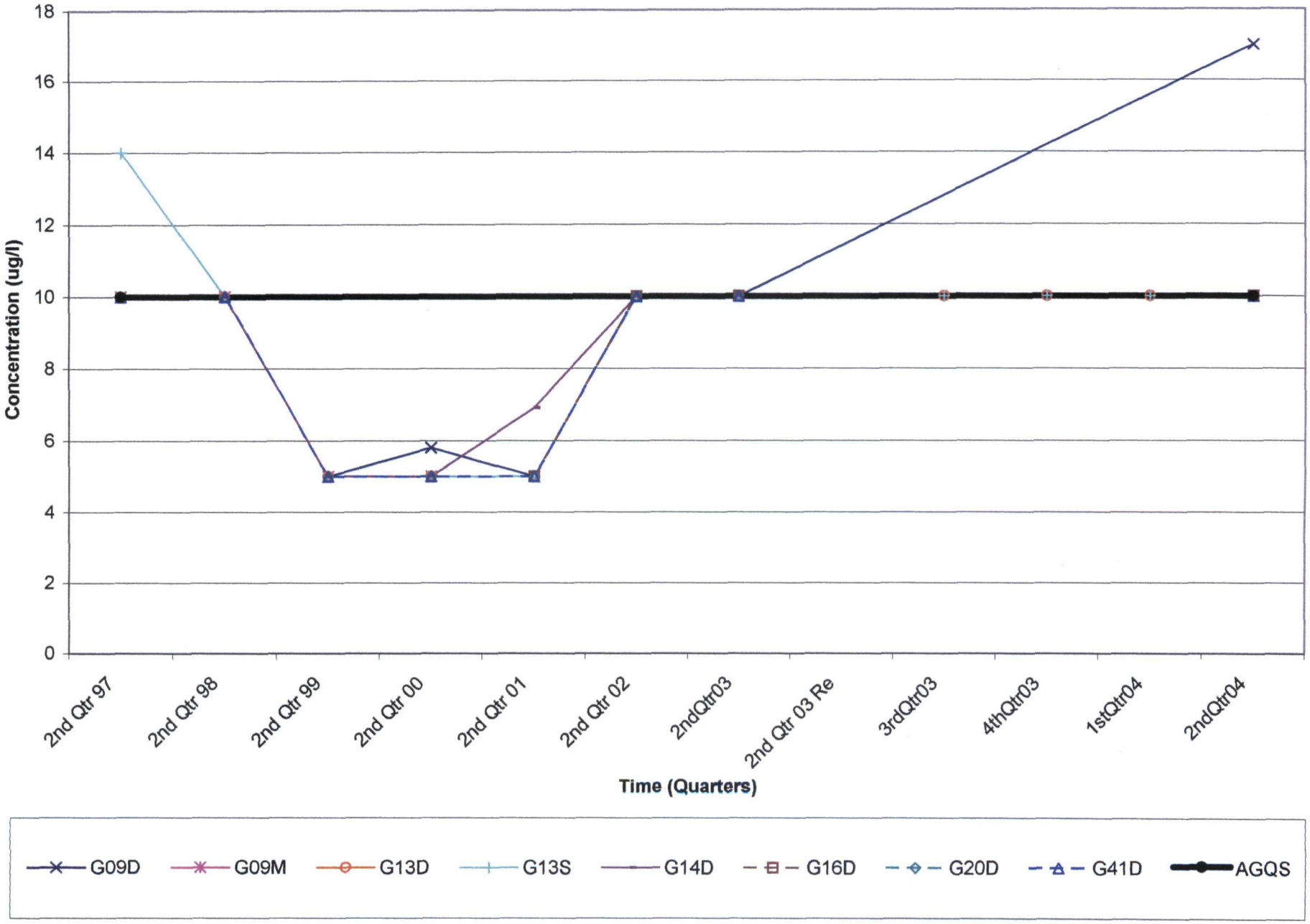
Winnebago Reclamation - Bedrock Wells
Dissolved Arsenic



GMZ Graphs 2004 Bedrock color
As,d

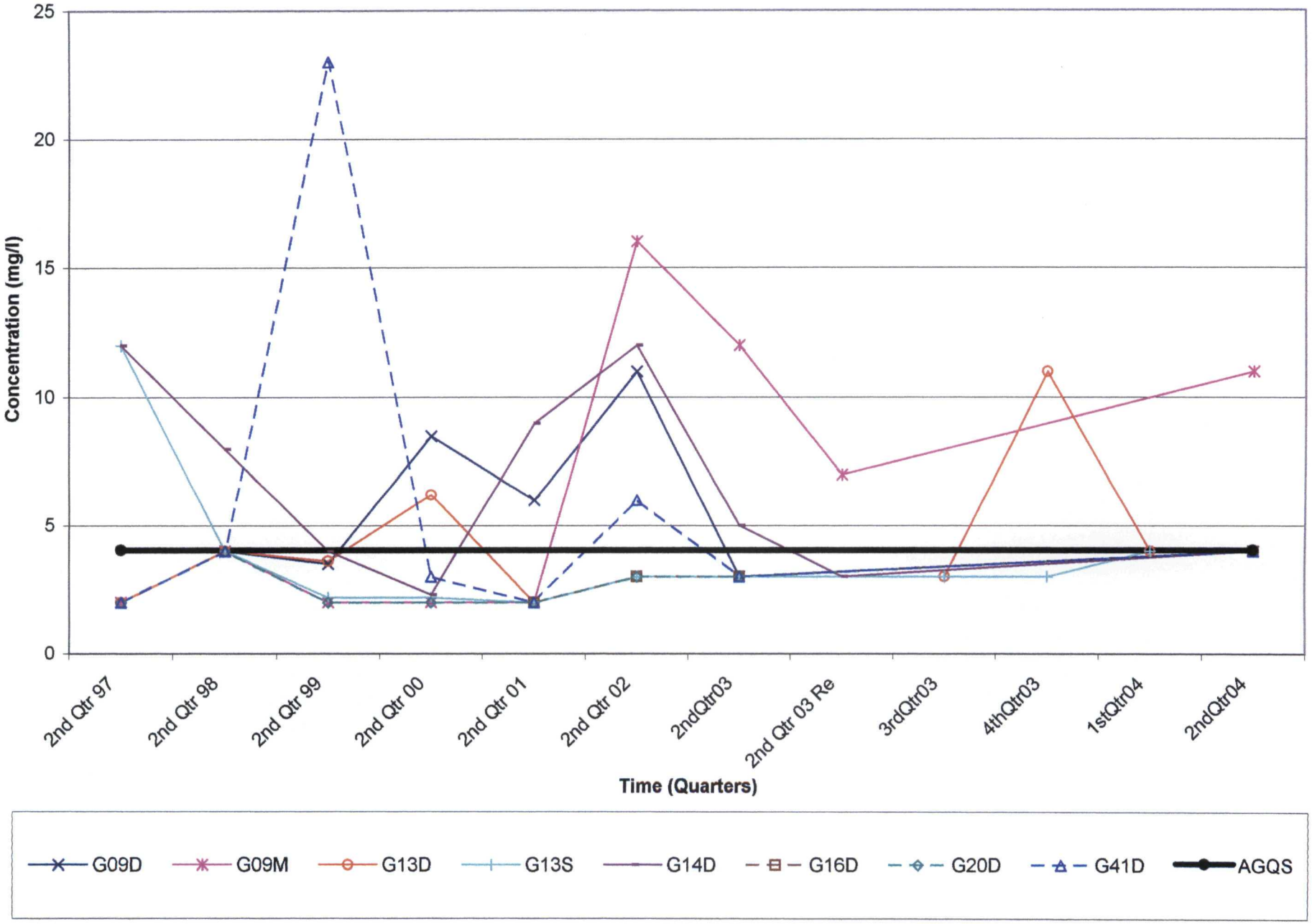
Non-GMZ Parameter Specific Trend Graphs

Winnebago Reclamation - Bedrock Wells
Acetone



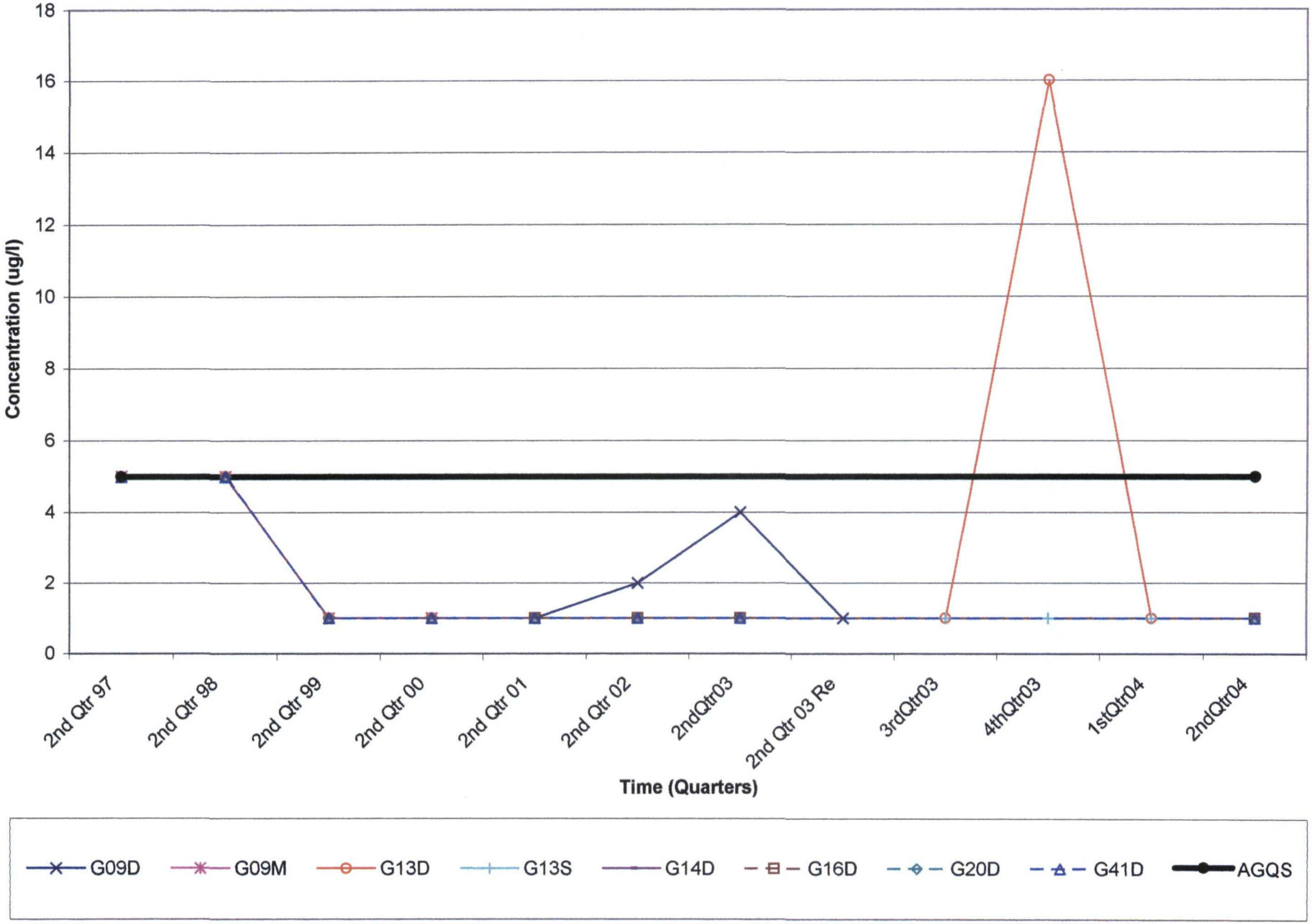
Exceedence Graphs Non GMZ Parameters Bedrock
Acetone

Winnebago Reclamation - Bedrock Wells
Biochemical Oxygen Demand



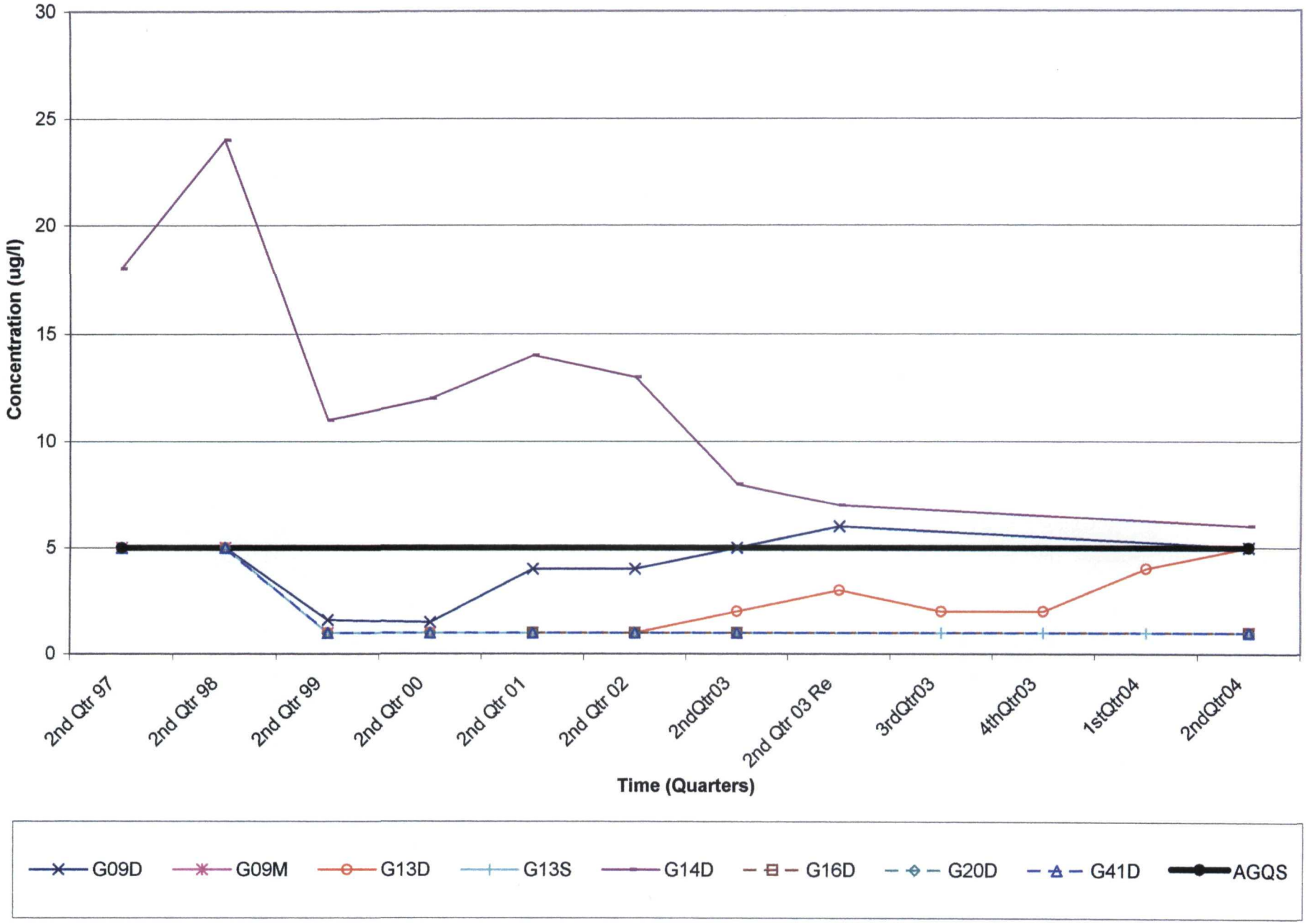
Exceedence Graphs Non GMZ Parameters Bedrock
BOD

Winnebago Reclamation - Bedrock Wells
Carbon Disulfide



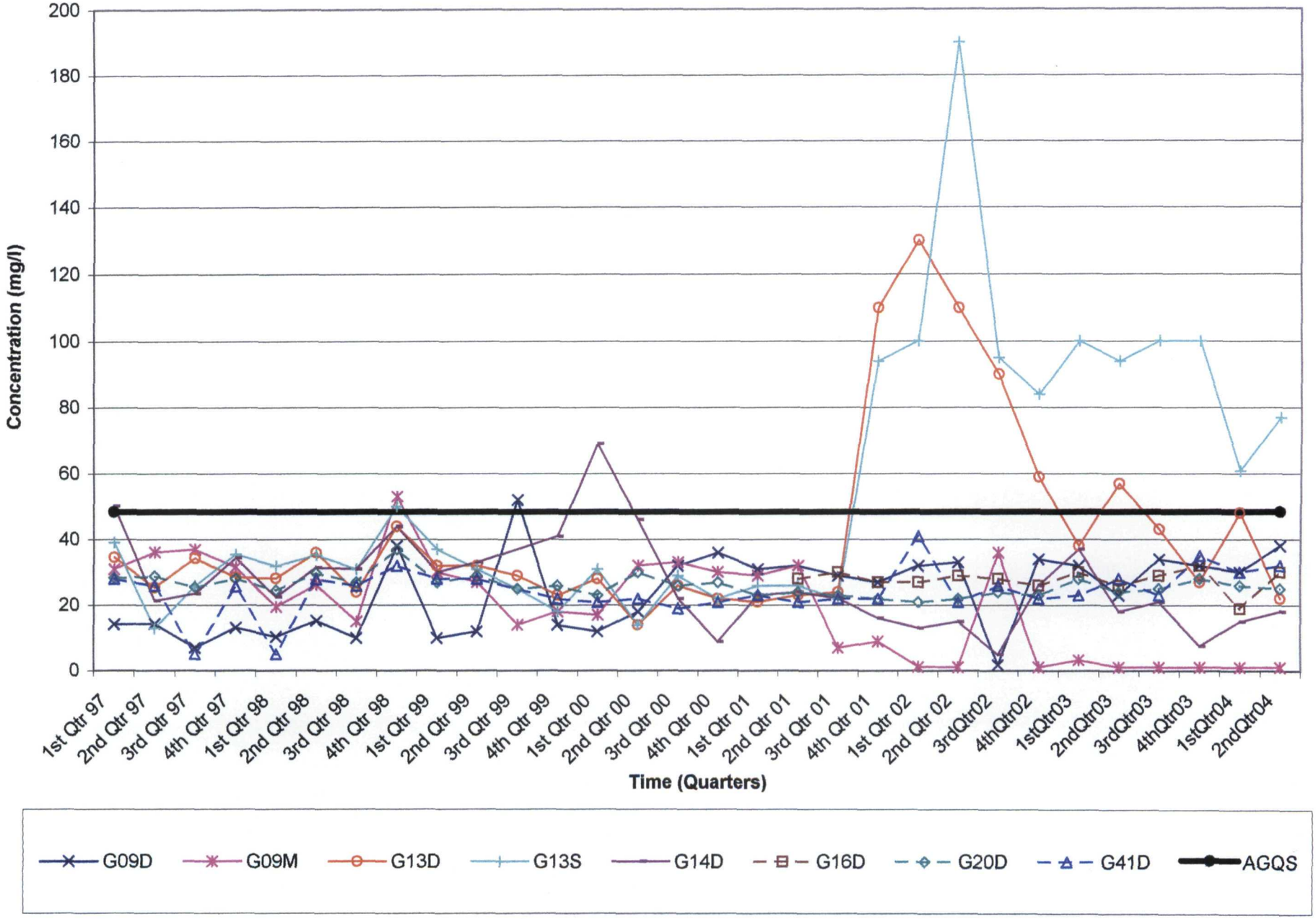
Exceedence Graphs Non GMZ Parameters Bedrock
Carbon Disulfide

Winnebago Reclamation - Bedrock Wells
Chlorobenzene



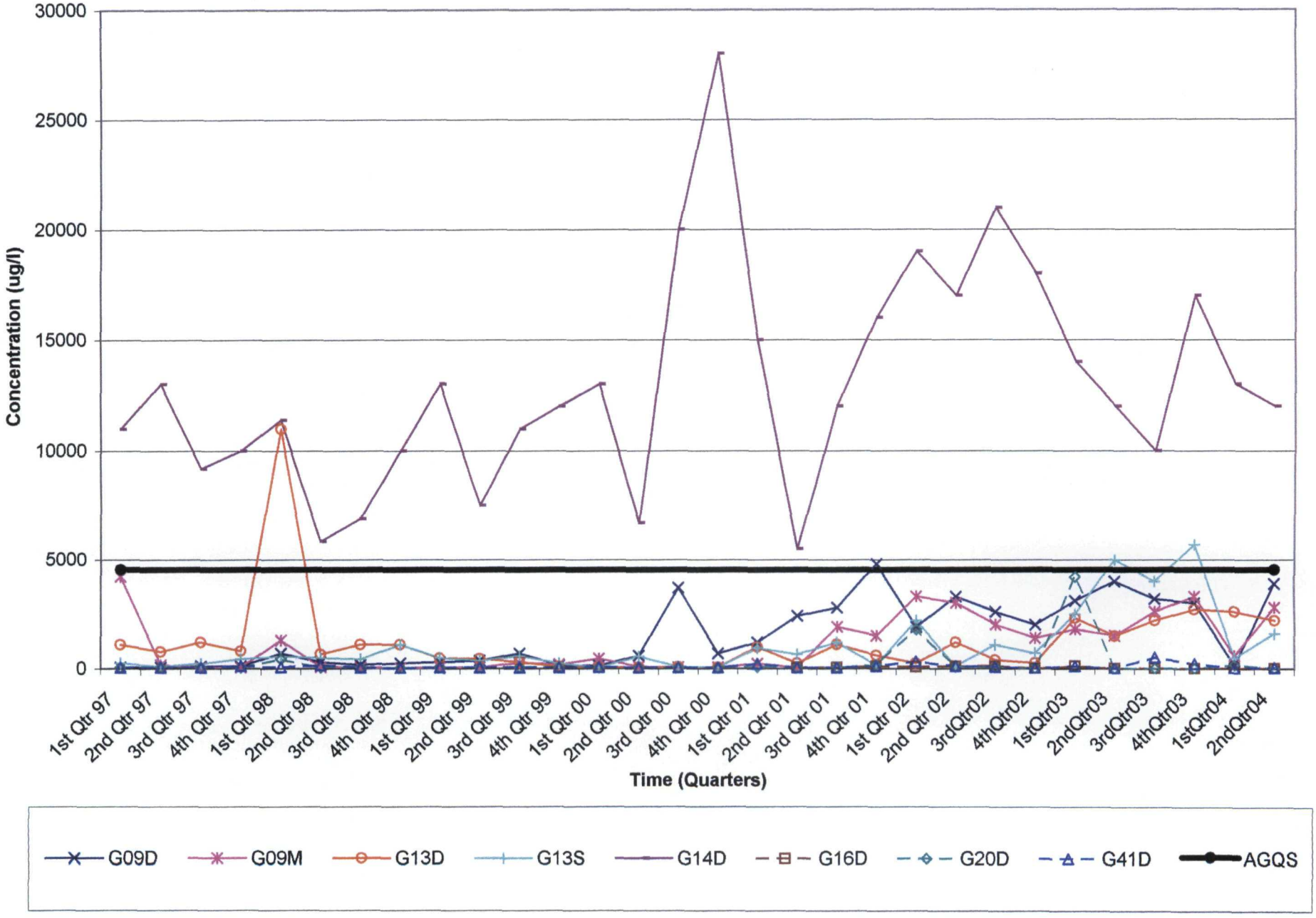
Exceedence Graphs Non GMZ Parameters Bedrock
Chlorobenzene

Winnebago Reclamation - Bedrock Wells
Dissolved Sulfate



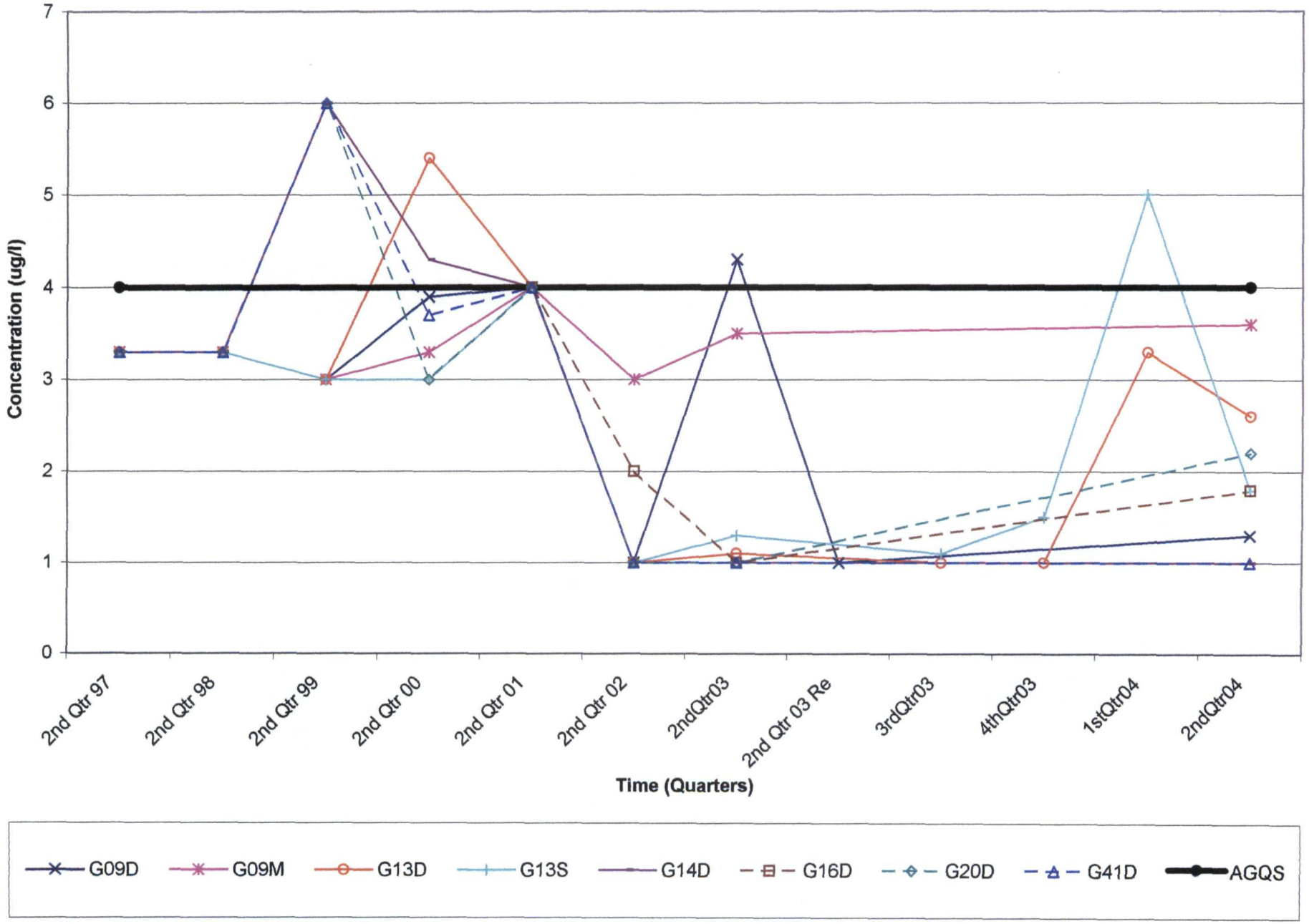
Exceedence Graphs Non GMZ Parameters Bedrock
Sulfate,d

Winnebago Reclamation - Bedrock Wells
Dissolved Iron



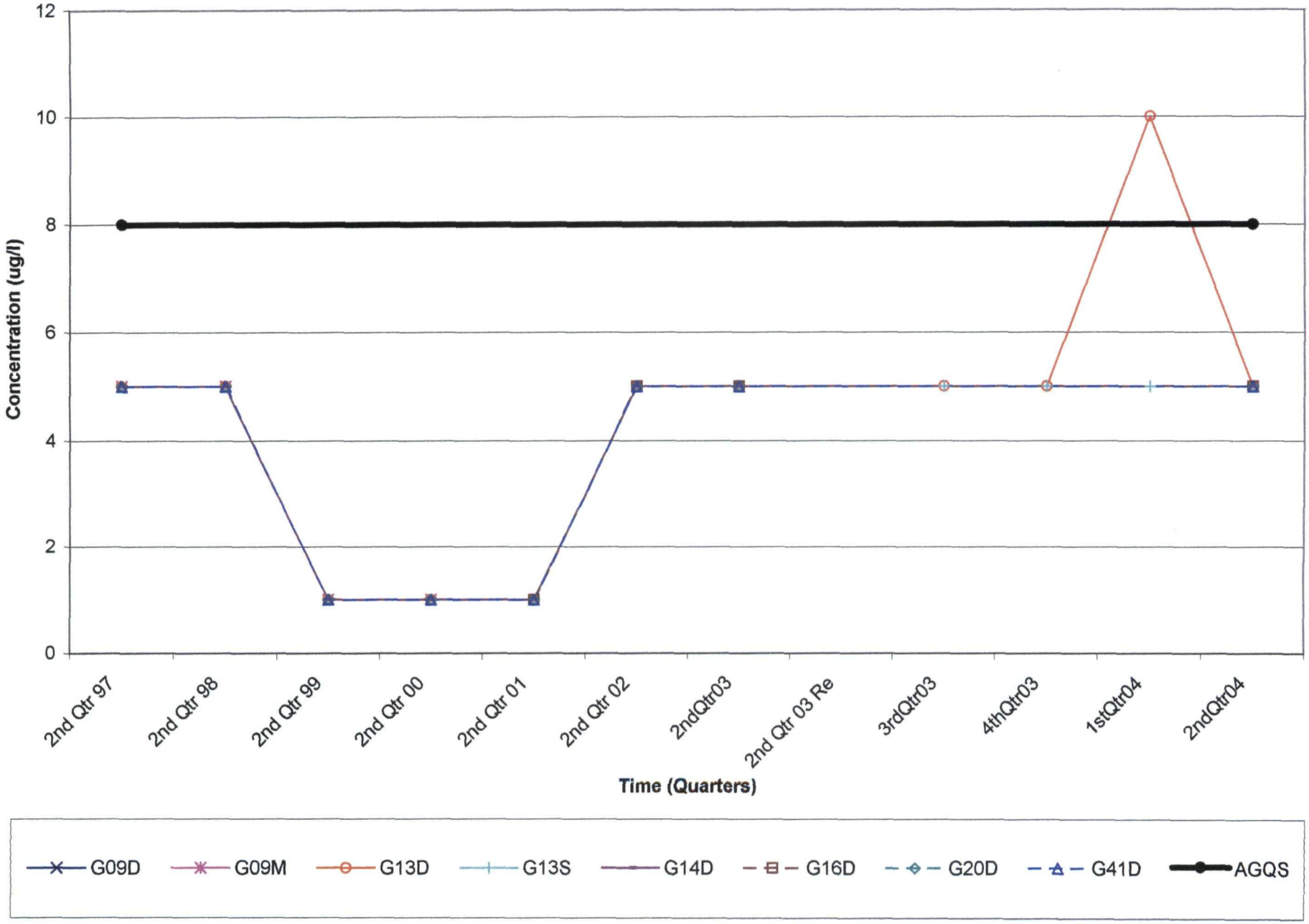
Exceedence Graphs Non GMZ Parameters Bedrock
Fe,d

Winnebago Reclamation - Bedrock Wells
Selenium



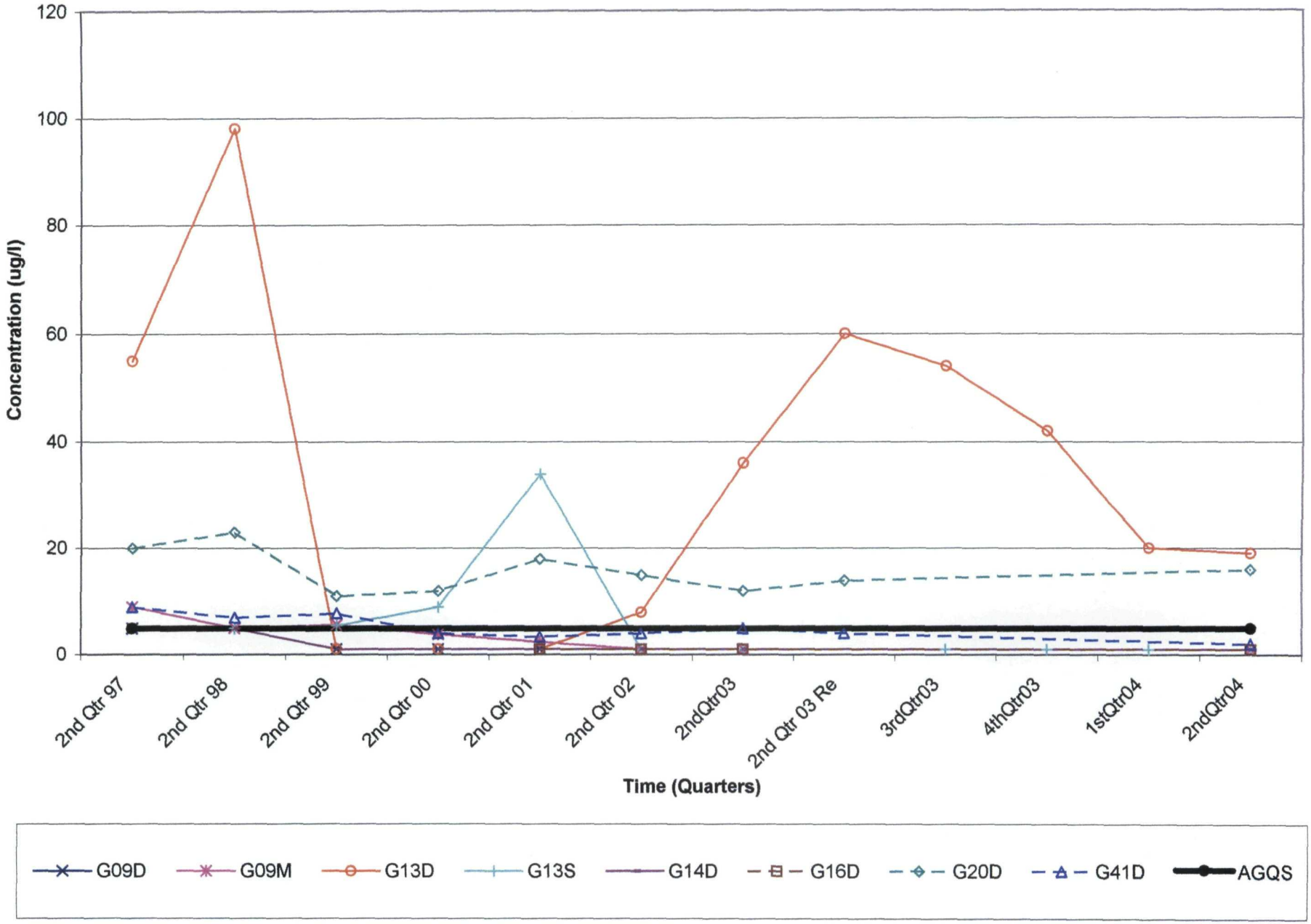
Exceedence Graphs Non GMZ Parameters Bedrock
Se

Winnebago Reclamation - Bedrock Wells
Methylene Chloride



Exceedence Graphs Non GMZ Parameters Bedrock
Methylene Chloride

Winnebago Reclamation - Bedrock Wells
cis-1,2-Dichloroethene

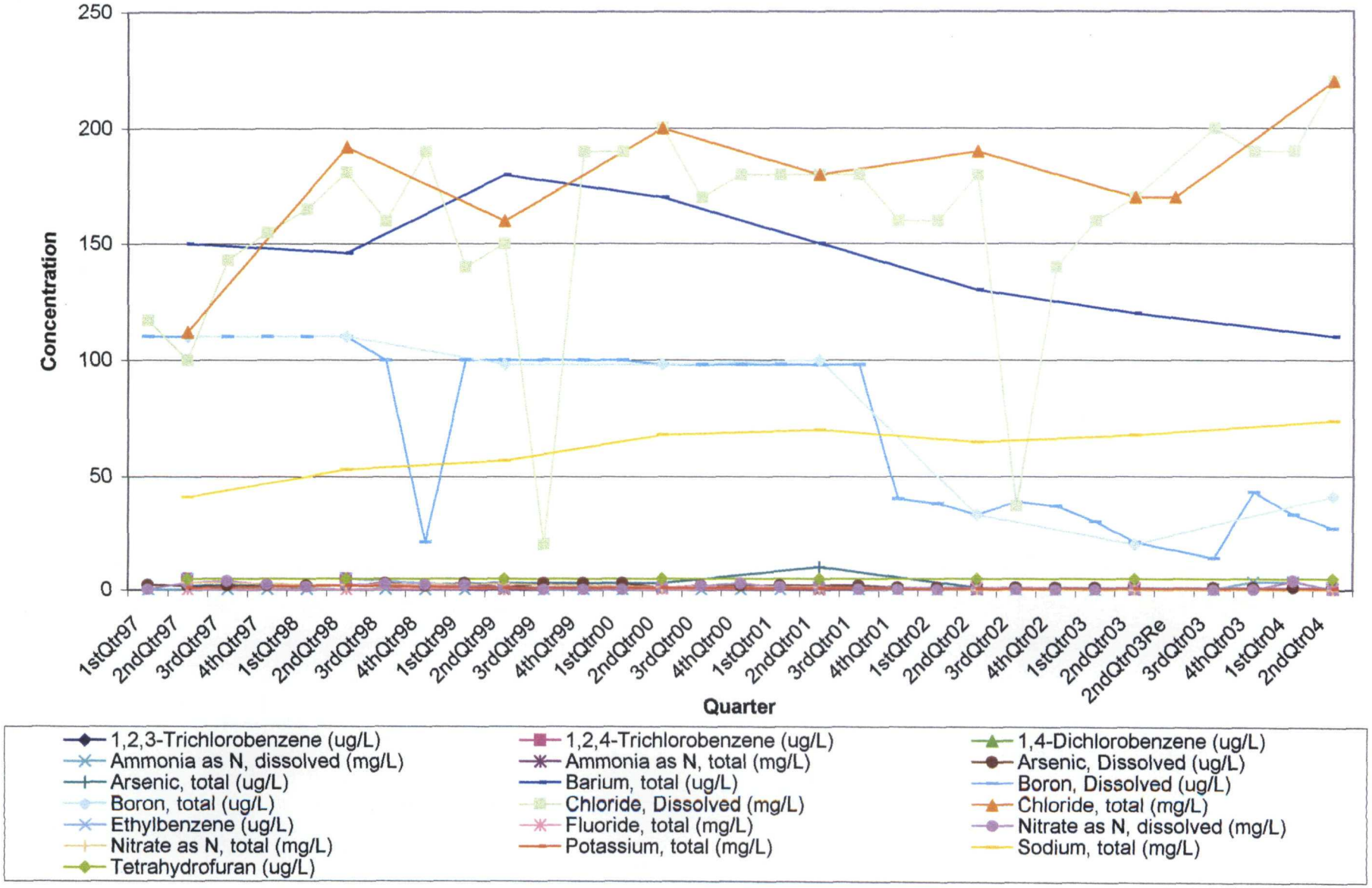


Exceedence Graphs Non GMZ Parameters Bedrock
cis-1,2-DCE

Well Specific Trend Graphs

Winnebago Reclamation

Well G09M

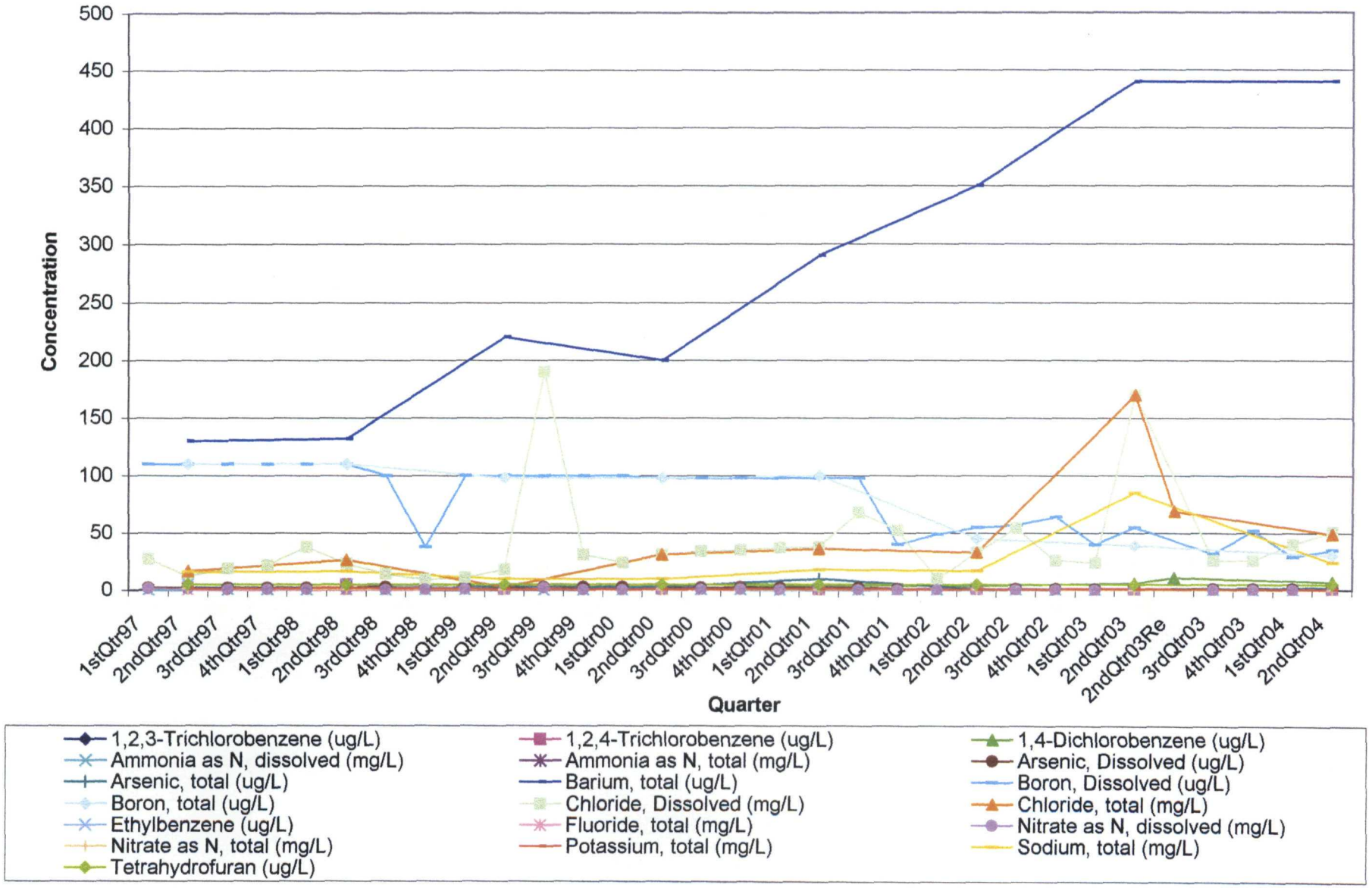


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G09M

Winnebago Reclamation

Well G09D

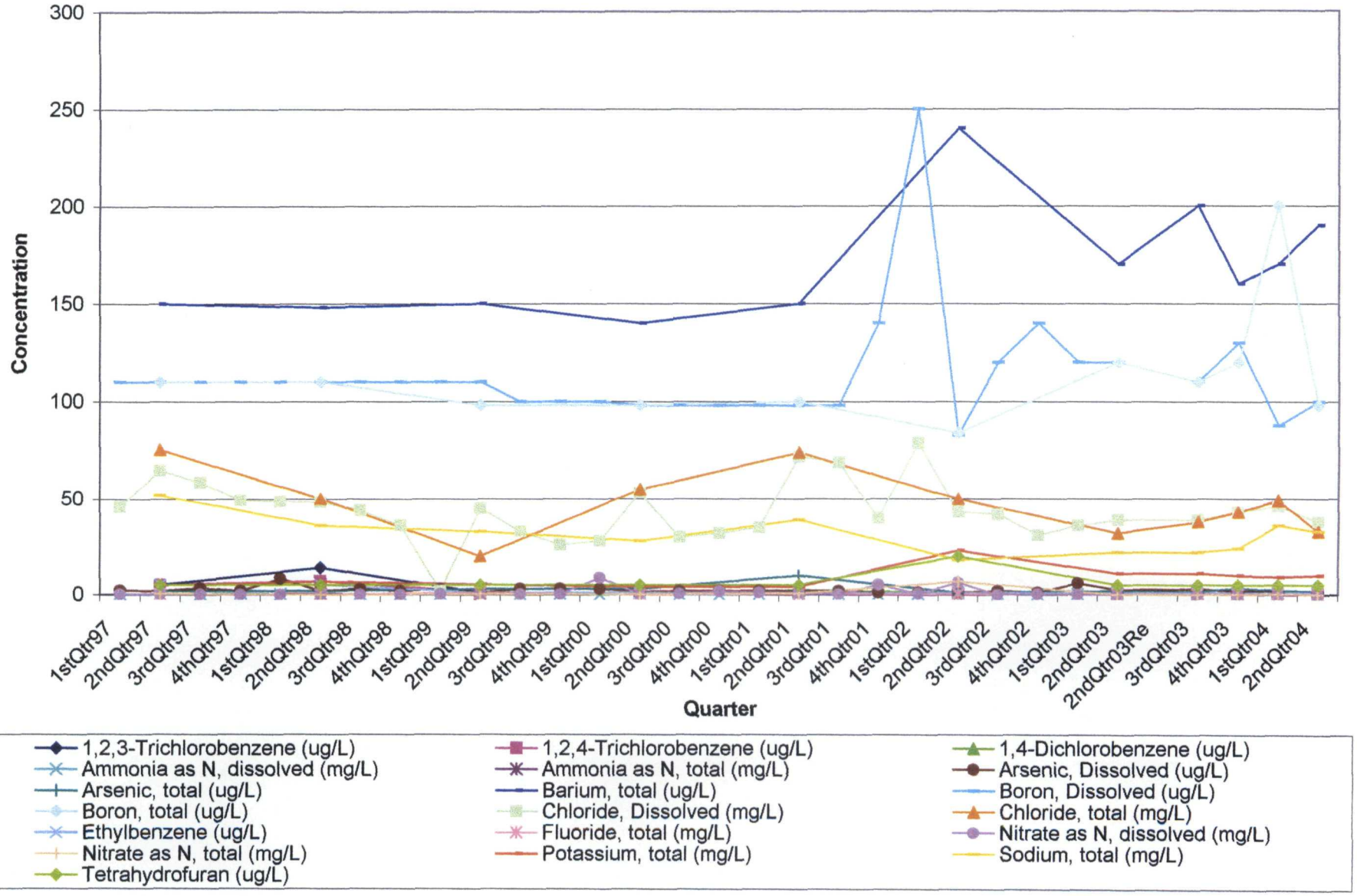


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G09D

Winnebago Reclamation

Well G13S

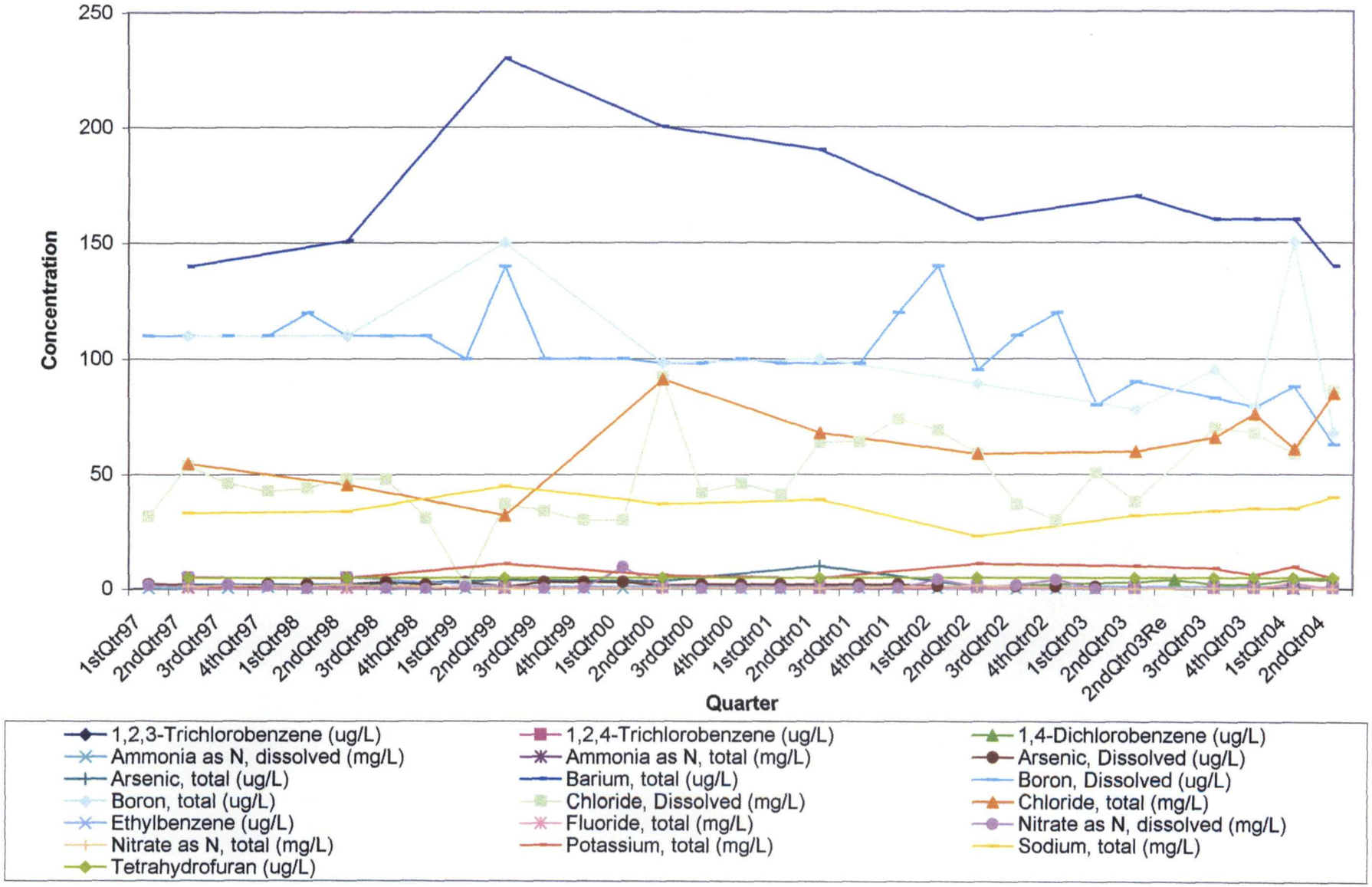


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G13S

Winnebago Reclamation

Well G13D



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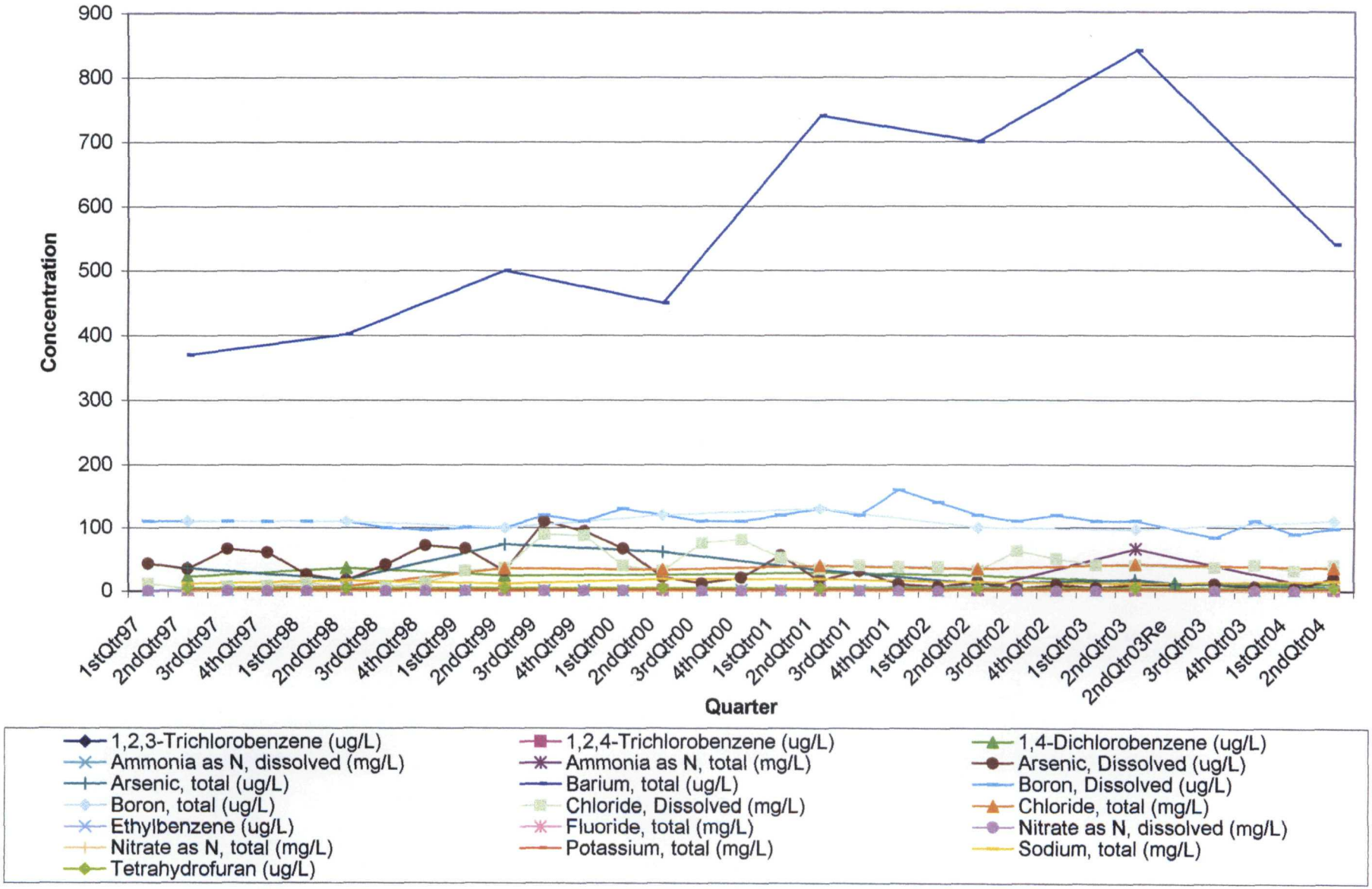
GMZ Graphs 2004 by Well 7-1-04
G13D

Winnebago Reclamation

Well G14D



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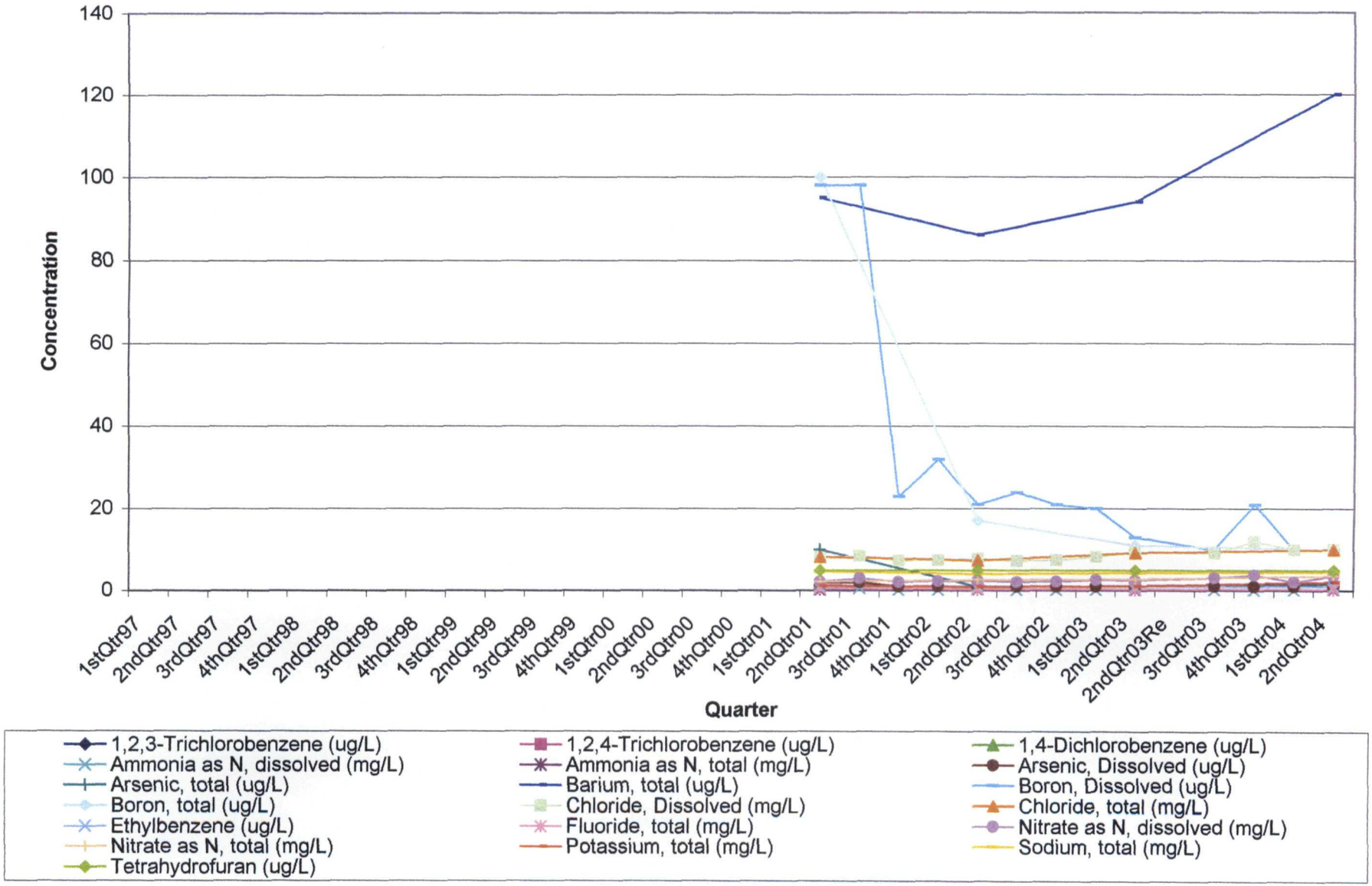
GMZ Graphs 2004 by Well 7-1-04
G14D

Winnebago Reclamation

Well G16D

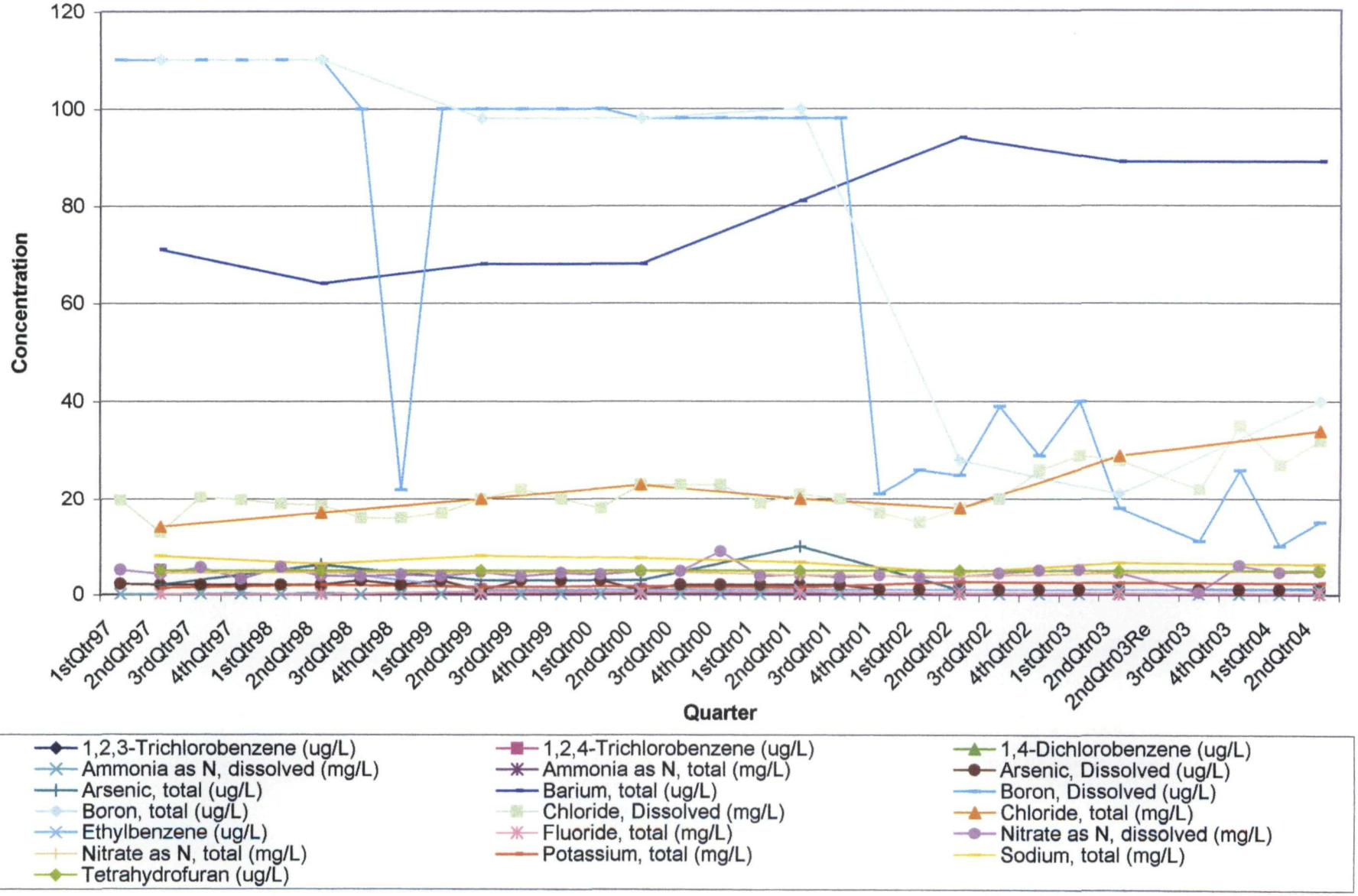


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G16D

Winnebago Reclamation

Well G20D

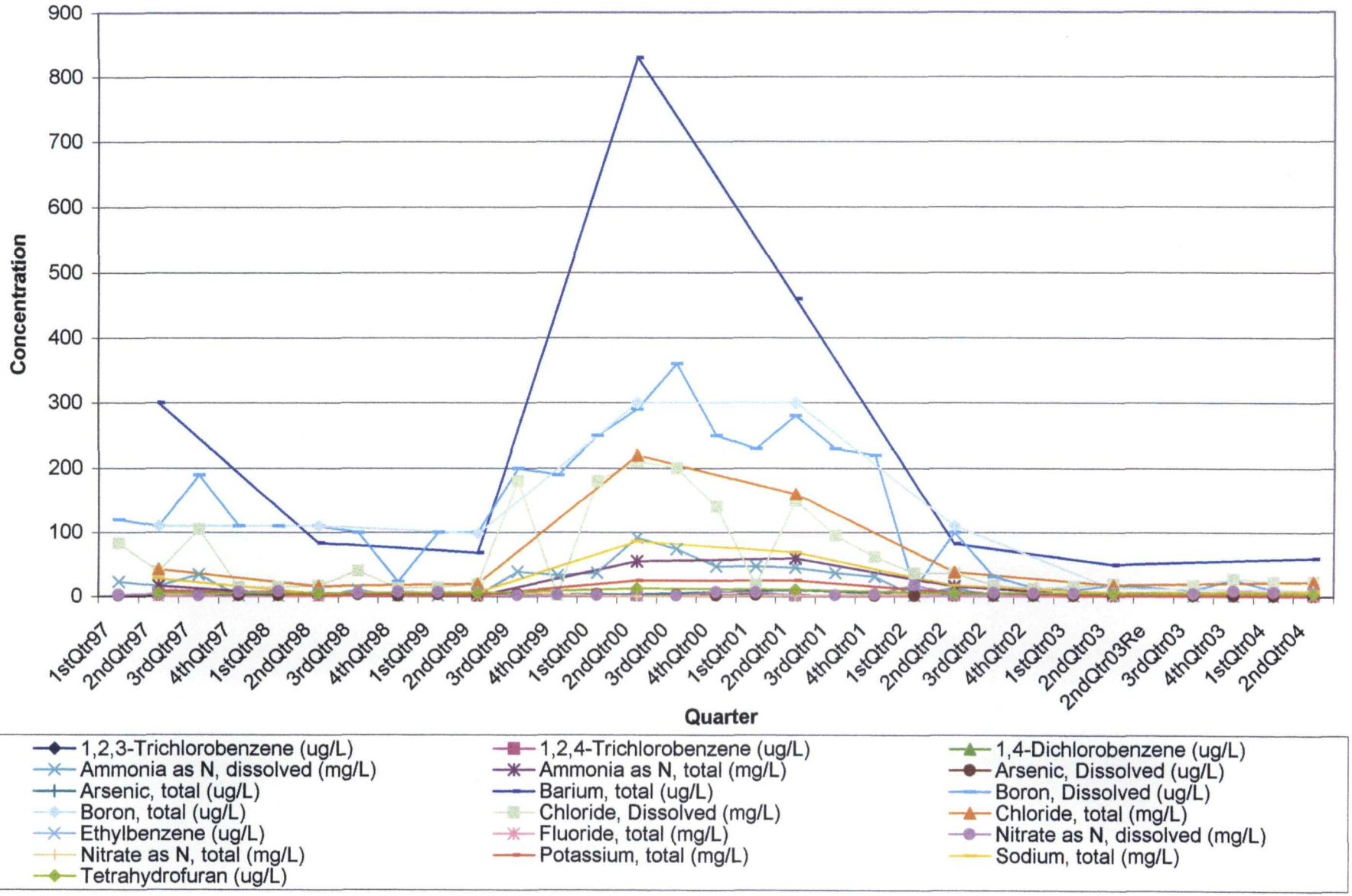


Andrews Environmental Engineering, Inc.

GMZ Graphs 2004 by Well 7-1-04
G20D

Winnebago Reclamation

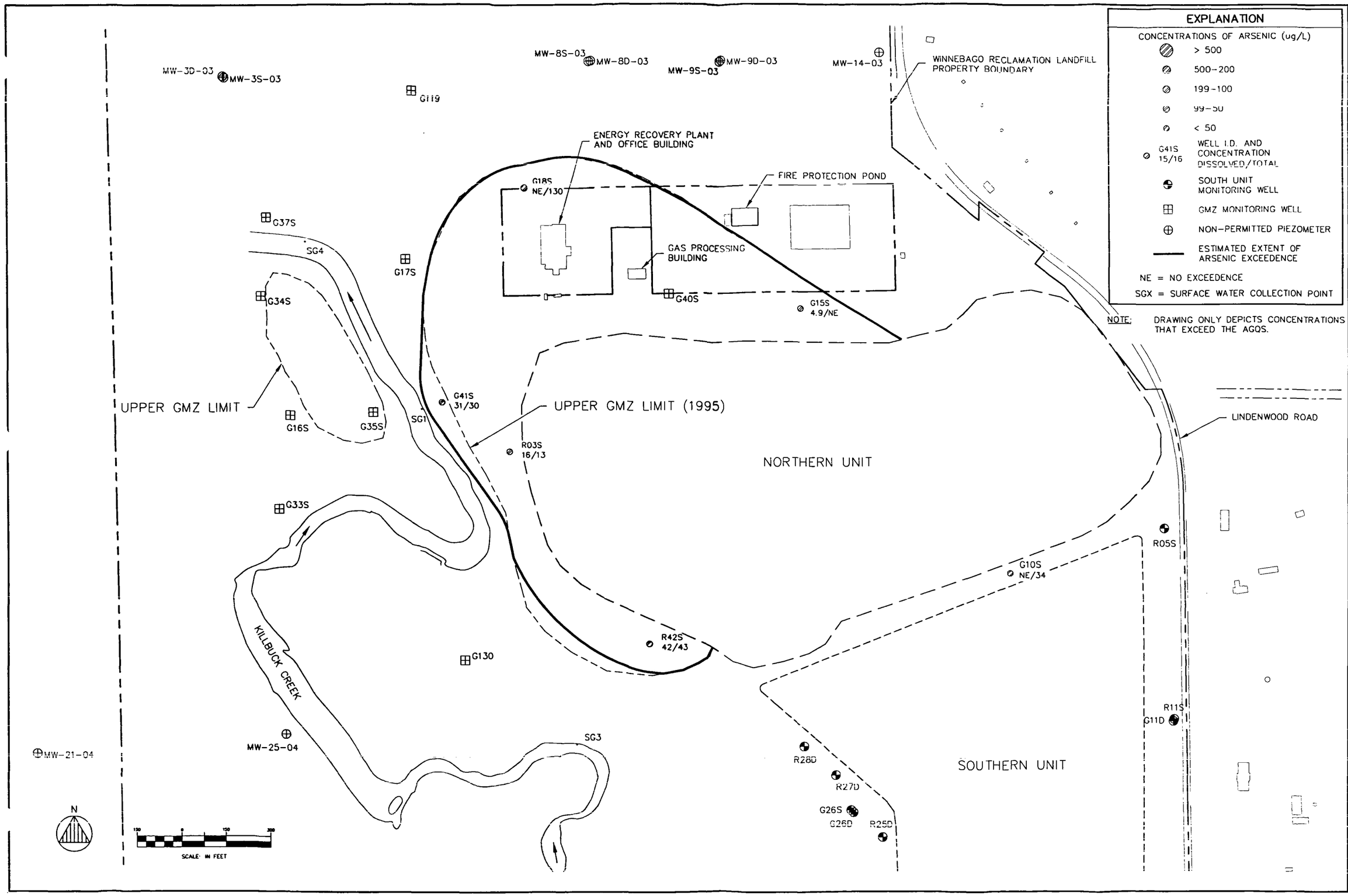
Well G41D



1,2,3-Trichlorobenzene (ug/L)	1,2,4-Trichlorobenzene (ug/L)	1,4-Dichlorobenzene (ug/L)
Ammonia as N, dissolved (mg/L)	Ammonia as N, total (mg/L)	Arsenic, Dissolved (ug/L)
Arsenic, total (ug/L)	Barium, total (ug/L)	Boron, Dissolved (ug/L)
Boron, total (ug/L)	Chloride, Dissolved (mg/L)	Chloride, total (mg/L)
Ethylbenzene (ug/L)	Fluoride, total (mg/L)	Nitrate as N, dissolved (mg/L)
Nitrate as N, total (mg/L)	Potassium, total (mg/L)	Sodium, total (mg/L)
Tetrahydrofuran (ug/L)		

APPENDIX H

UPPER ZONE CONCENTRATION EXCEEDENCE MAPS



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APPROVED BY: SRH | DESIGNED BY: SRH | DRAWN BY: LJE

2ND QUARTER 2004 ARSENIC EXCEEDENCES
UPPER ZONE

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004
PROJECT ID: 90-114
FILE: J:\DWG\XT\GMZ_UPPER ZONE 06-25-04
SHEET NUMBER: 1

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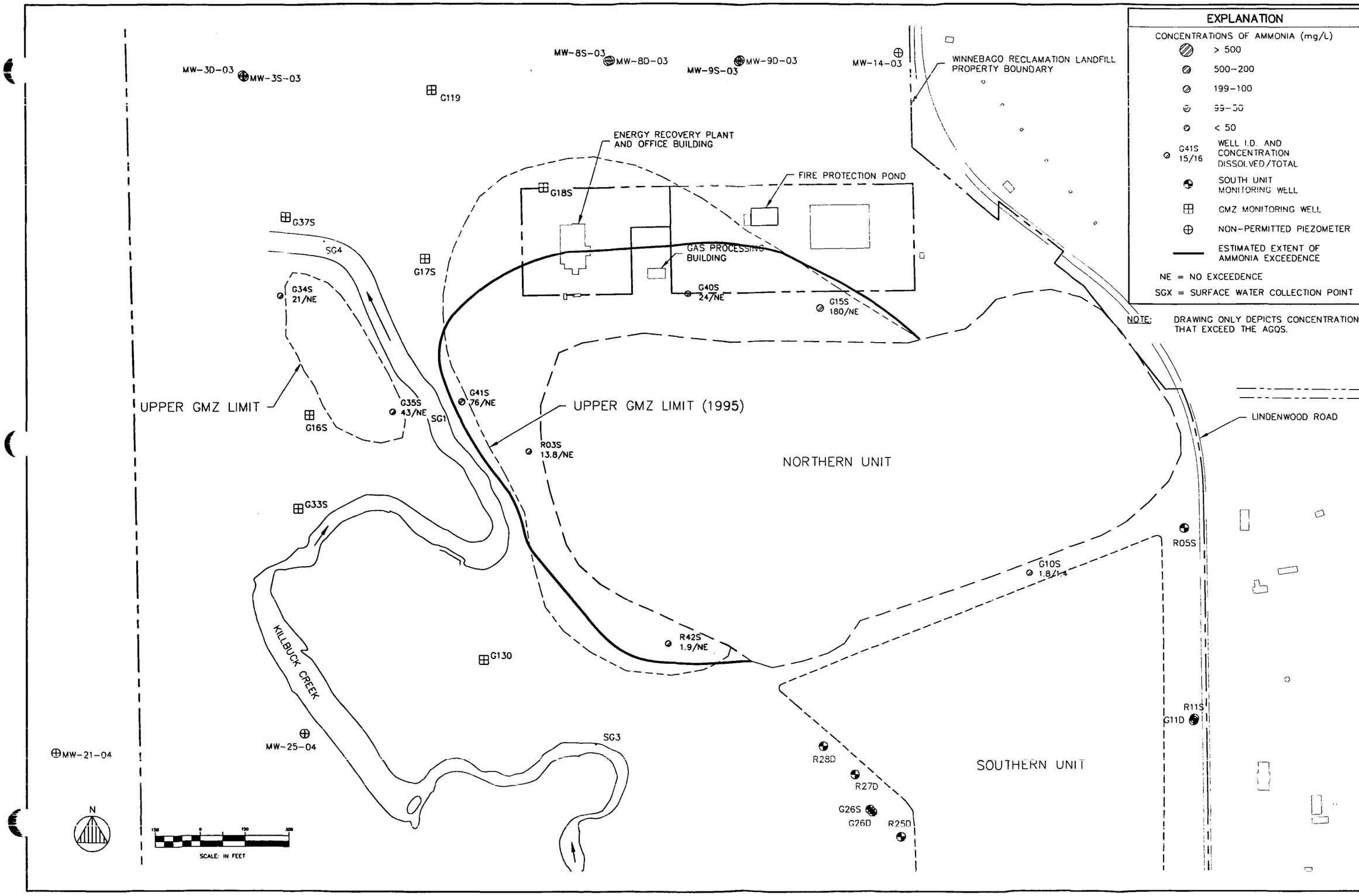

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2ND QUARTER 2004 AMMONIA EXCEEDENCES
UPPER ZONE

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PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

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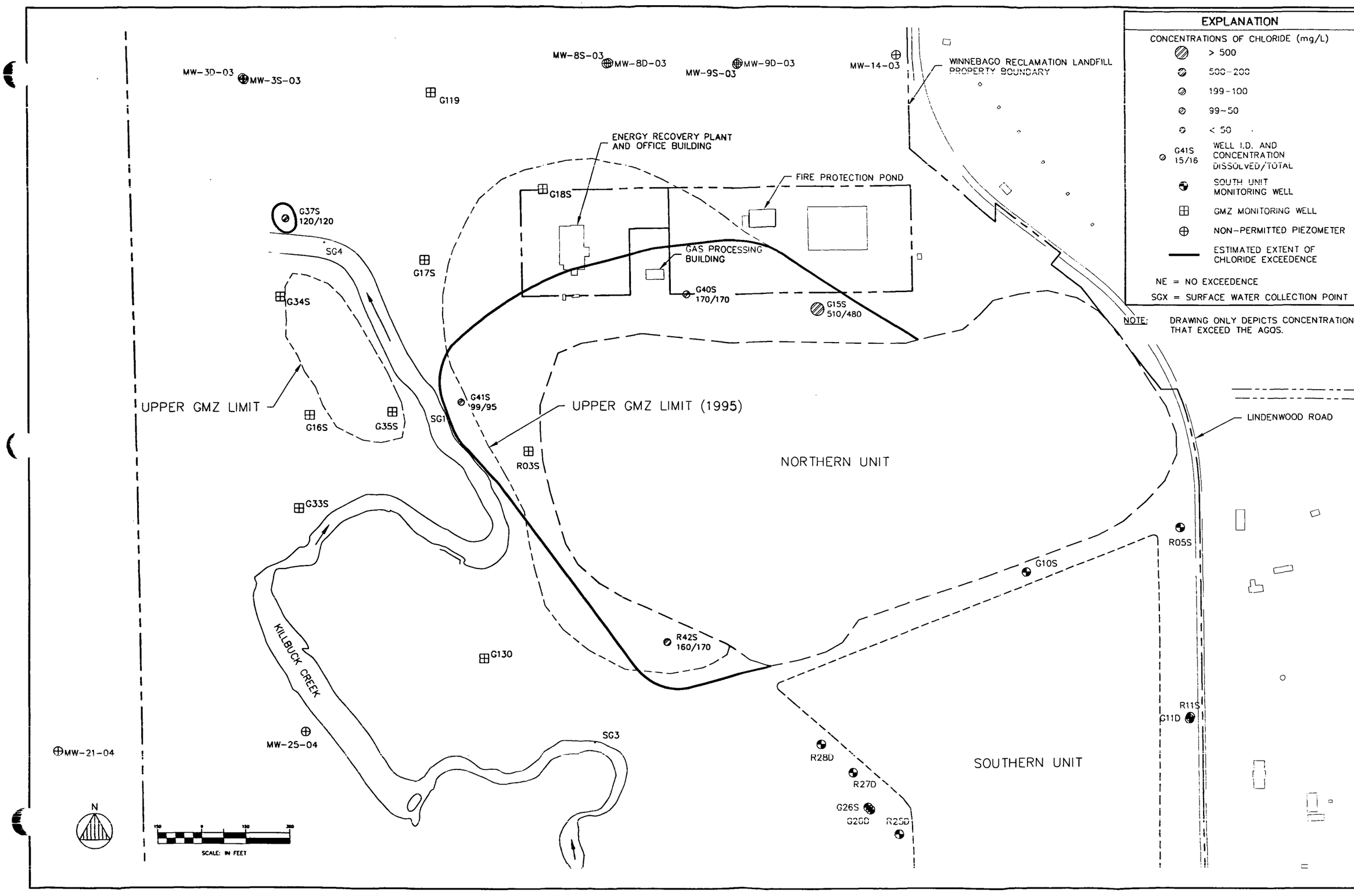

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2ND QUARTER 2004 CHLORIDE EXCEEDENCES
UPPER ZONE

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PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

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PROJECT ID: 90-114
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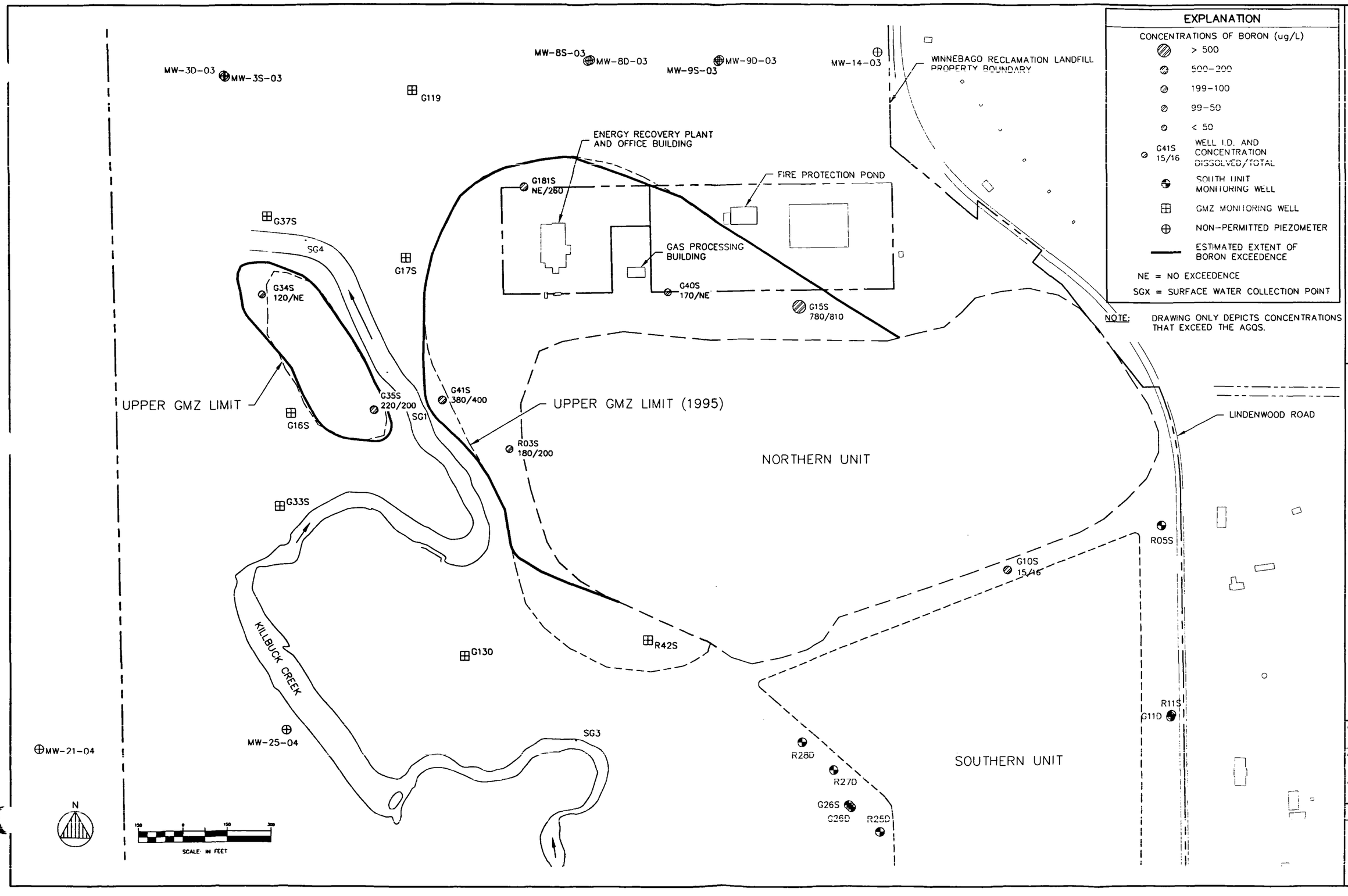

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2ND QUARTER 2004 BORON EXCEEDENCES
UPPER ZONE

PLANS PREPARED FOR
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PROJECT ID: 90-114
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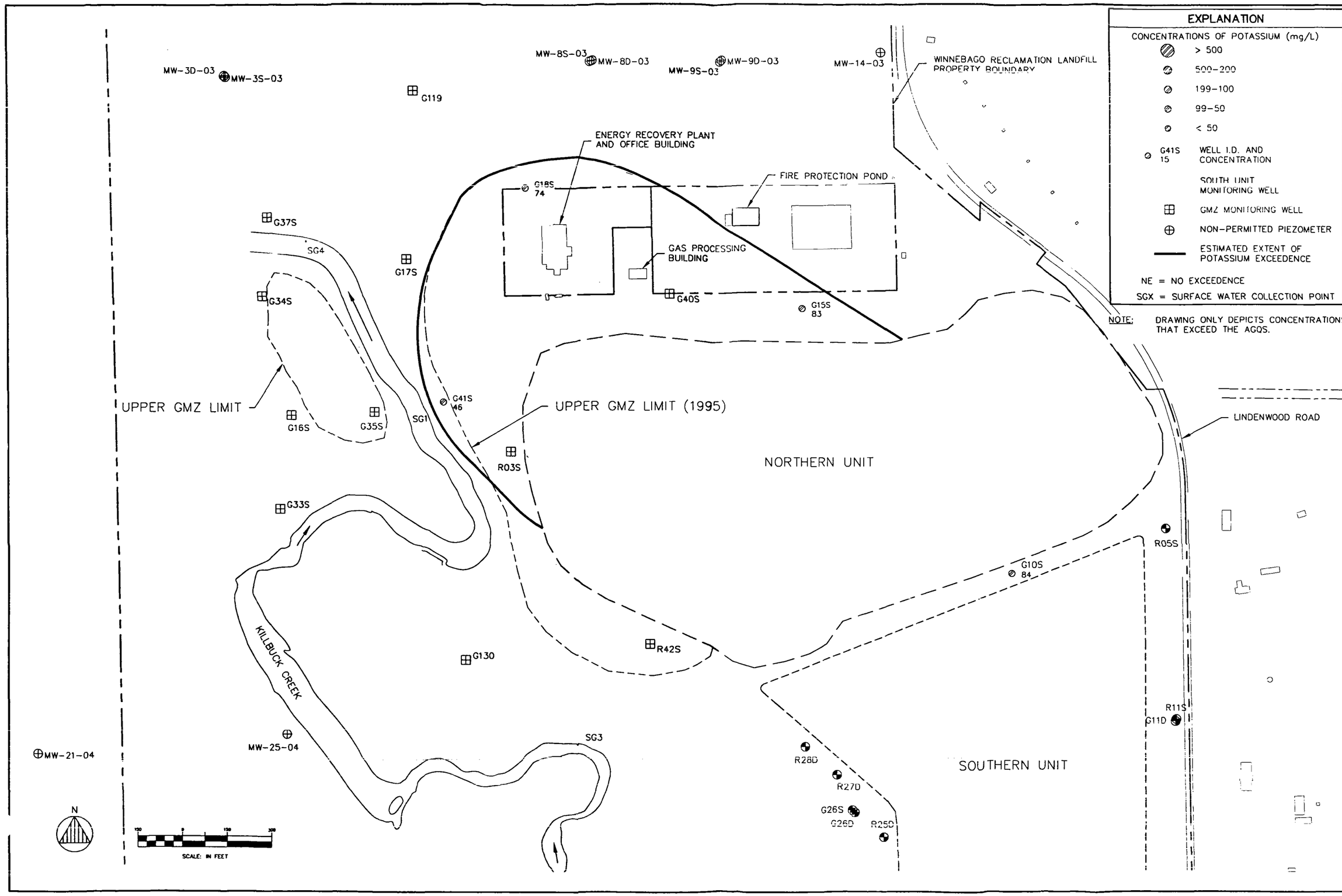

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2ND QUARTER 2004 TOTAL POTASSIUM EXCEEDENCES
UPPER ZONE

PLANS PREPARED FOR
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PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

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PROJECT ID: 90-114
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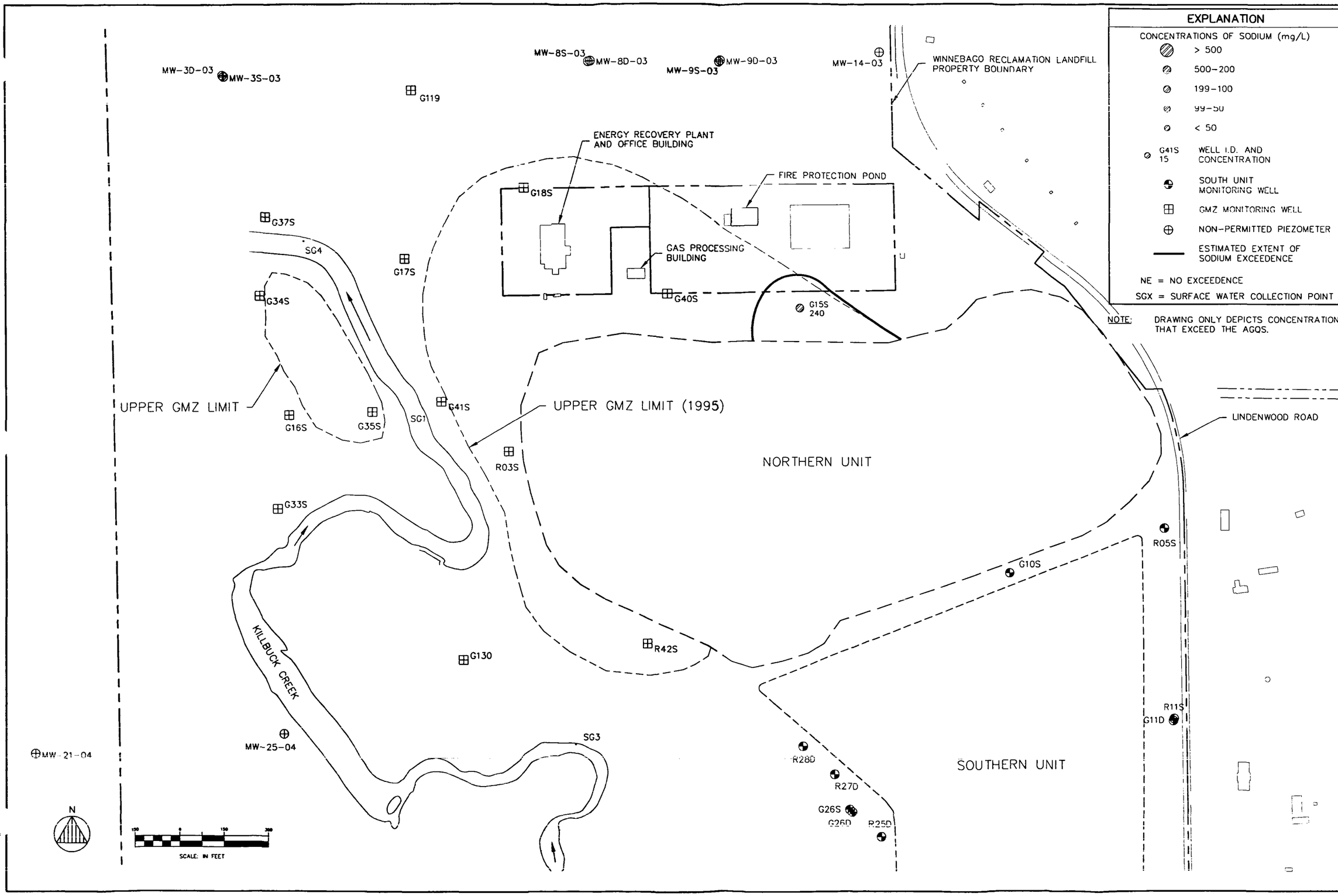

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2ND QUARTER 2004 TOTAL SODIUM EXCEEDENCES
UPPER ZONE

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PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004
PROJECT ID: 90-114
FILE: J:\DWG\XY\GMZ_UPPER ZONE 06-25-04
SHEET NUMBER: 6

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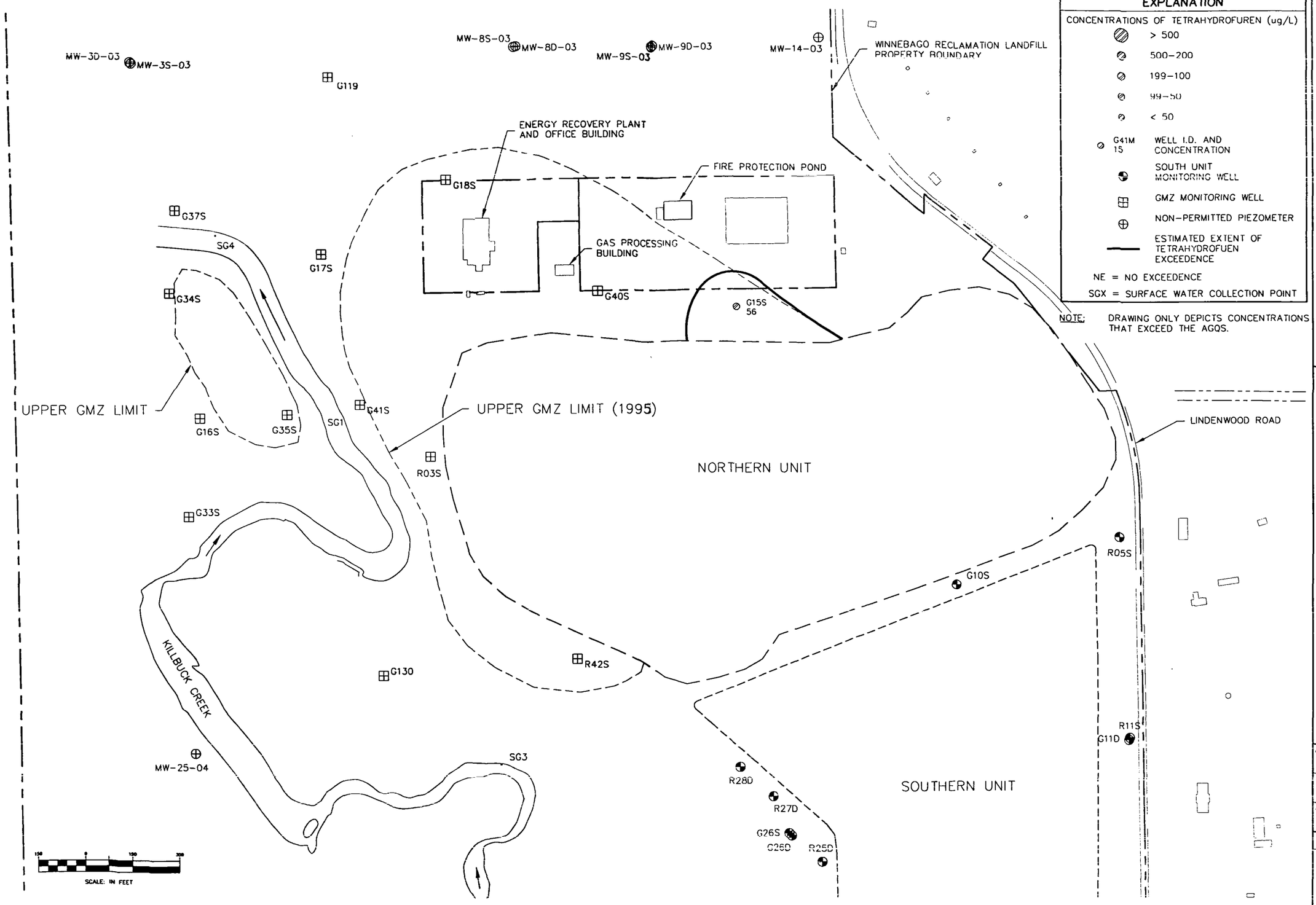

EXPLANATION

CONCENTRATIONS OF TETRAHYDROFUREN (ug/L)

- > 500
- 500–200
- 199–100
- 99–50
- < 50
- G41M 15 — WELL I.D. AND CONCENTRATION
- SOUTH UNIT MONITORING WELL
- GMZ MONITORING WELL
- NON-PERMITTED PIEZOMETER
- ESTIMATED EXTENT OF TETRAHYDROFUEN EXCEEDENCE

NE = NO EXCEEDENCE

SGX = SURFACE WATER COLLECTION POINT

NOTE: DRAWING ONLY DEPICTS CONCENTRATIONS THAT EXCEED THE AGQS.

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2ND QUARTER 2004 TETRAHYDROFURAN EXCEEDENCES UPPER ZONE

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PROJECT ID: 90-114

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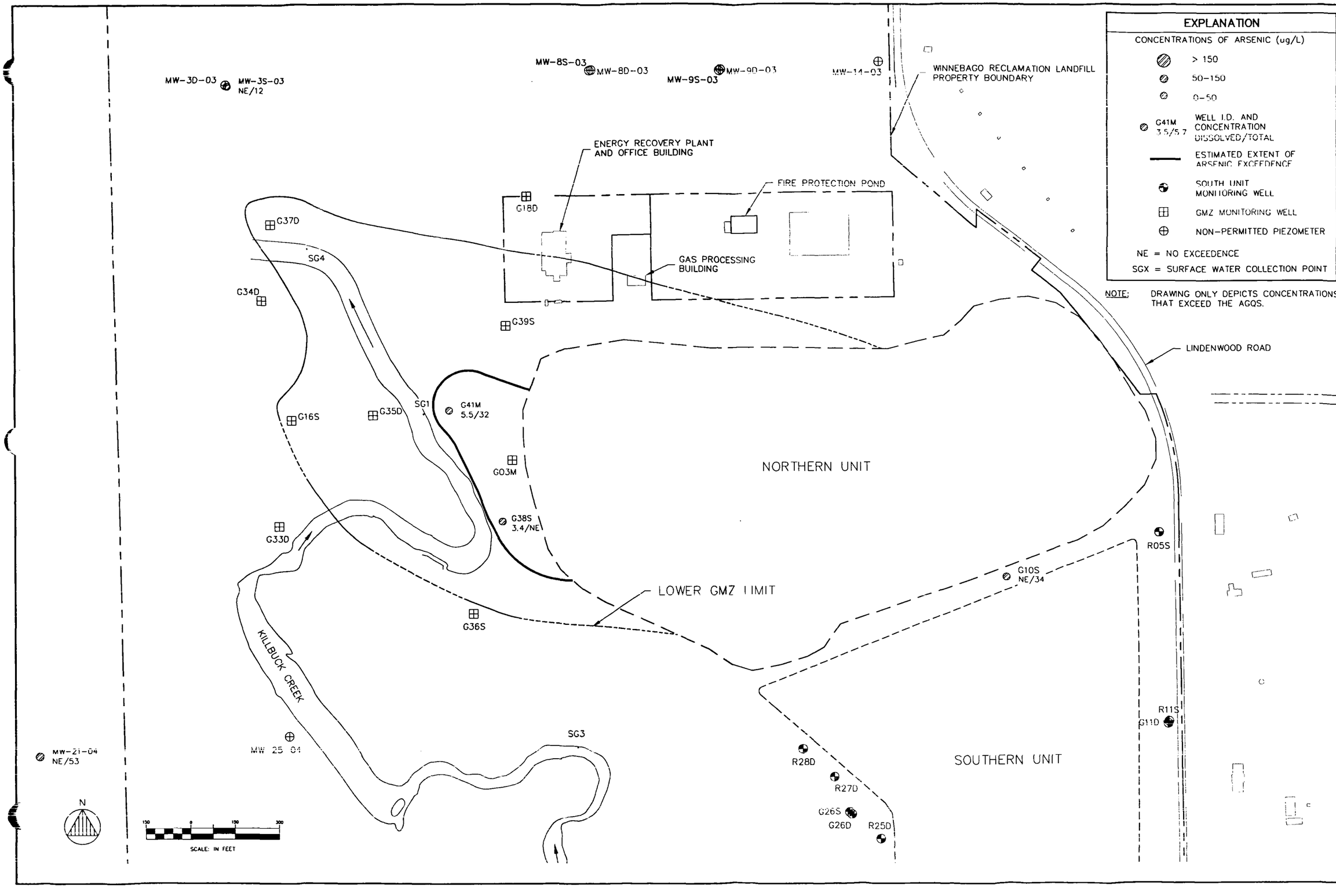
APPENDIX I

LOWER ZONE CONCENTRATION EXCEEDENCE MAPS



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2ND QUARTER 2004 ARSENIC EXCEEDENCES
LOWER ZONE

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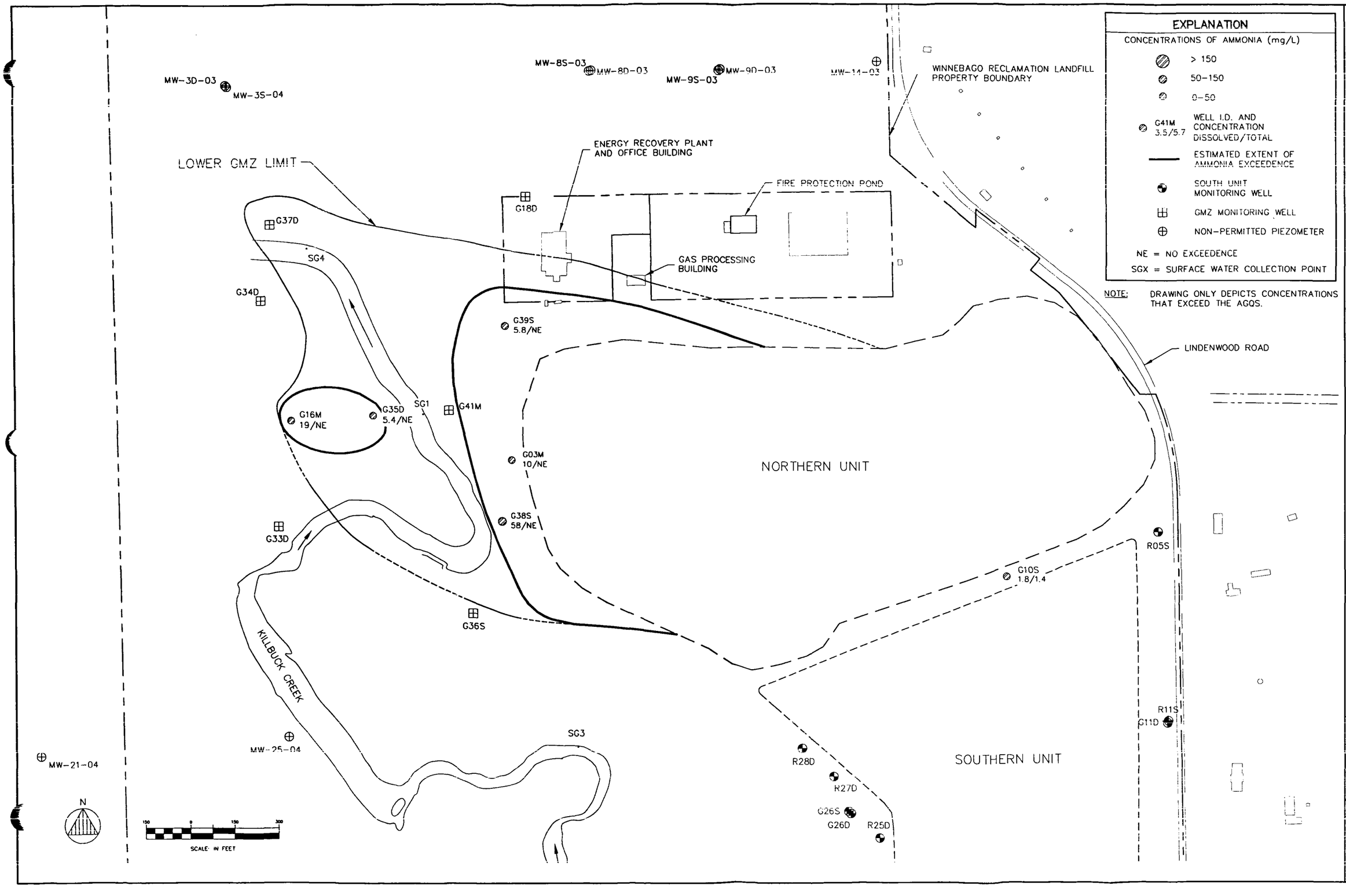

EXPLANATION

CONCENTRATIONS OF AMMONIA (mg/L)

- > 150
- 50–150
- 0–50
- G41M 3.5/5.7 — WELL I.D. AND CONCENTRATION DISSOLVED/TOTAL
- ESTIMATED EXTENT OF AMMONIA EXCEEDENCE
- SOUTH UNIT MONITORING WELL
- GMZ MONITORING WELL
- NON-PERMITTED PIEZOMETER

NE = NO EXCEEDENCE

SGX = SURFACE WATER COLLECTION POINT

NOTE: DRAWING ONLY DEPICTS CONCENTRATIONS THAT EXCEED THE AGQS.

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APPROVED BY:	SRH	DESIGNED BY	SRH	DRAWN BY:	LJE

2ND QUARTER 2004 AMMONIA EXCEEDENCES LOWER ZONE

PLANS PREPARED FOR
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PROJECT ID: 90-114

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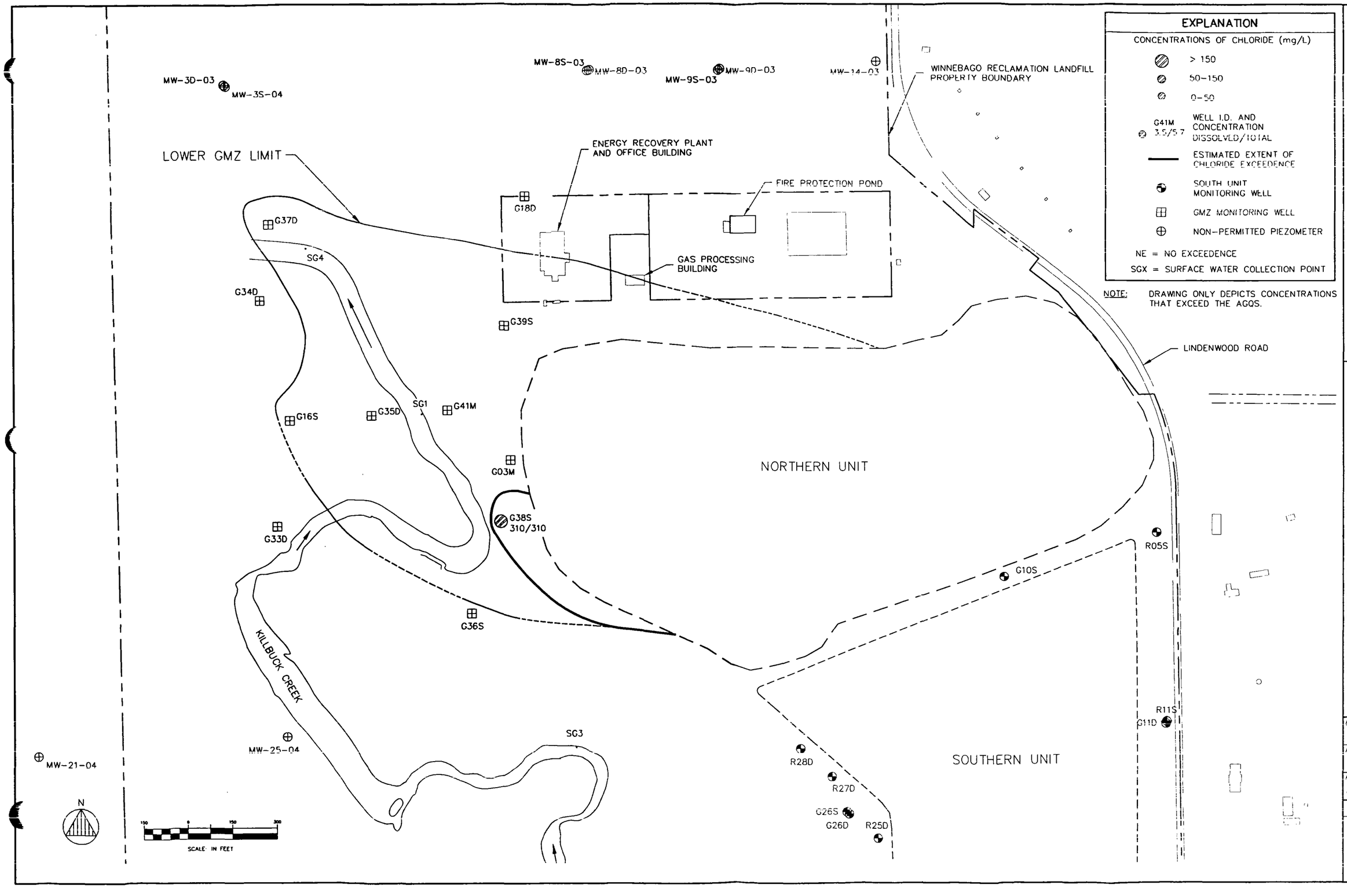

EXPLANATION

CONCENTRATIONS OF CHLORIDE (mg/L)

- > 150
- 50–150
- 0–50
- G41M 3.5/5.7 — WELL I.D. AND CONCENTRATION DISSOLVED/TOTAL
- ESTIMATED EXTENT OF CHLORIDE EXCEEDENCE
- SOUTH UNIT MONITORING WELL
- GMZ MONITORING WELL
- NON-PERMITTED PIEZOMETER

NE = NO EXCEEDENCE

SGX = SURFACE WATER COLLECTION POINT

NOTE: DRAWING ONLY DEPICTS CONCENTRATIONS THAT EXCEED THE AGQS.

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APPROVED BY: SRH | DESIGNED BY: SRH | DRAWN BY: LJE

2ND QUARTER 2004 CHLORIDE EXCEEDENCES LOWER ZONE

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004

PROJECT ID: 90-114

FILE: J:\DWG\AT\QAQ_LOWER ZONE 06-23-04

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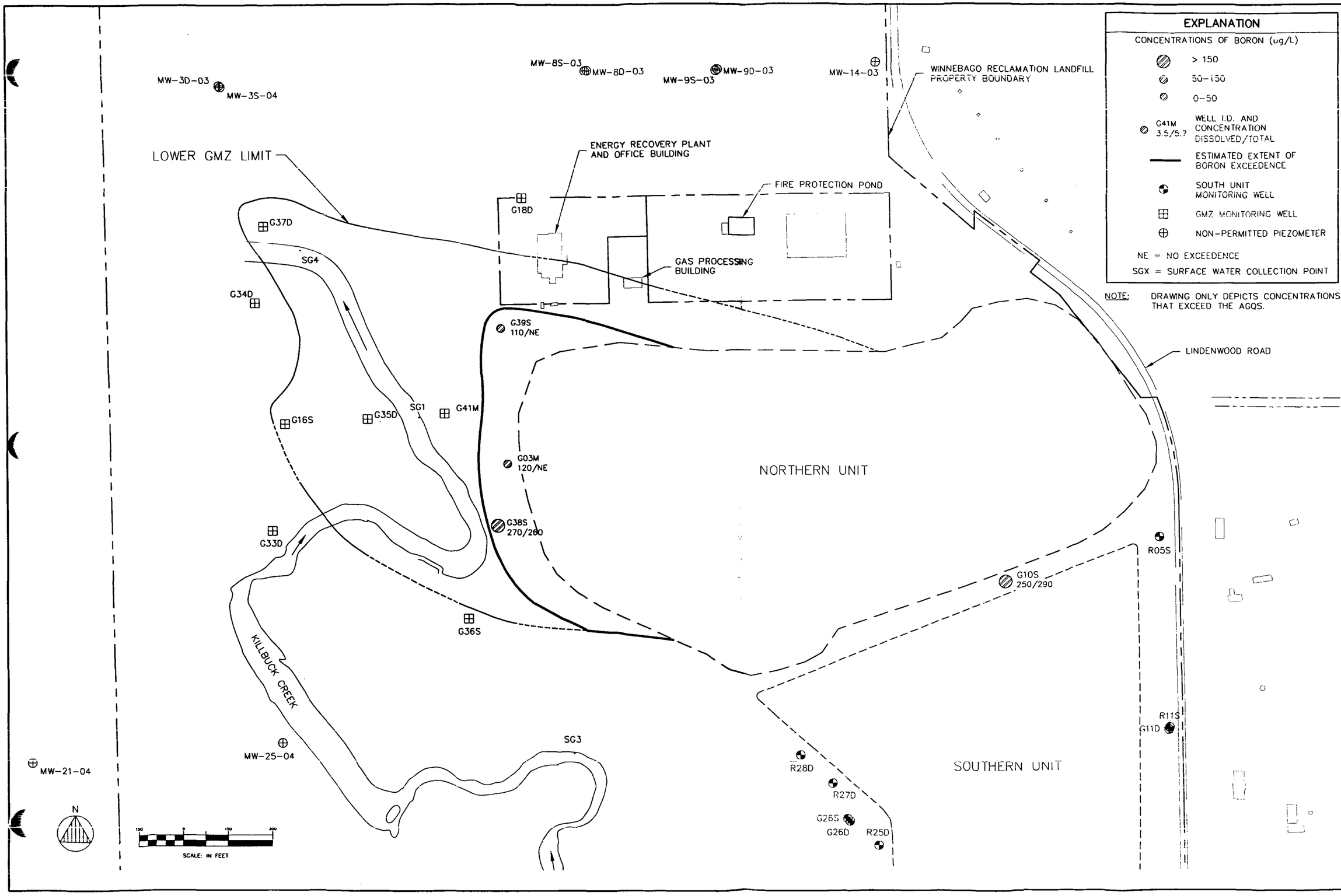

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APPROVED BY: SRH | DESIGNED BY: SRH | DRAWN BY: LJE

2ND QUARTER 2004 BORON EXCEEDENCES
LOWER ZONE

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004
PROJECT ID: 90-114
FILE: [illegible]
SHEET NUMBER: 4

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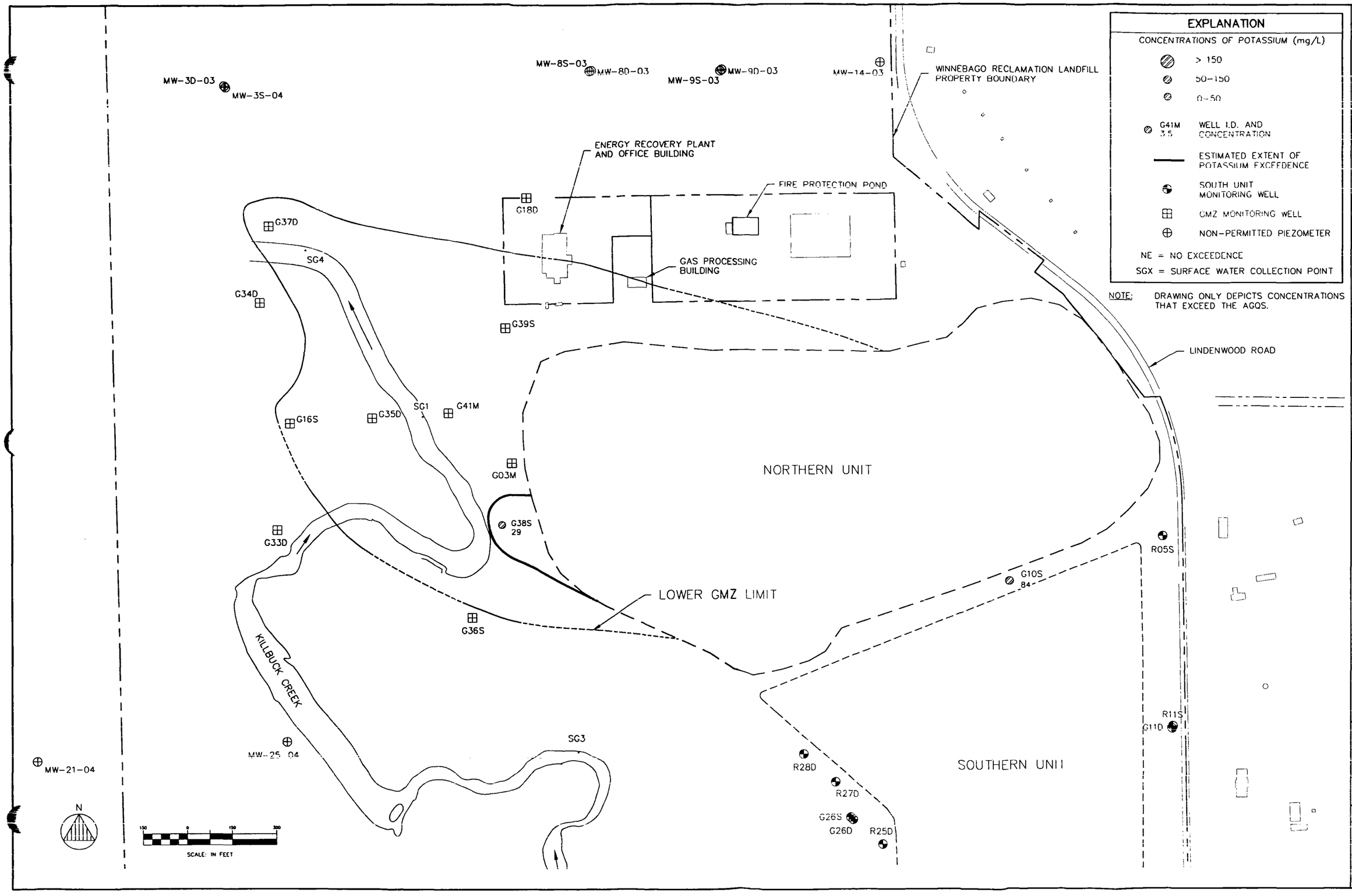

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APPROVED BY: SRH | DESIGNED BY: SRH | DRAWN BY: LJE

2ND QUARTER 2004 TOTAL POTASSIUM EXCEEDENCES
LOWER ZONE

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004
PROJECT ID: 90-114
FILE: J:\DWG\KI\GMZ_LOWER ZONE 06-23-04
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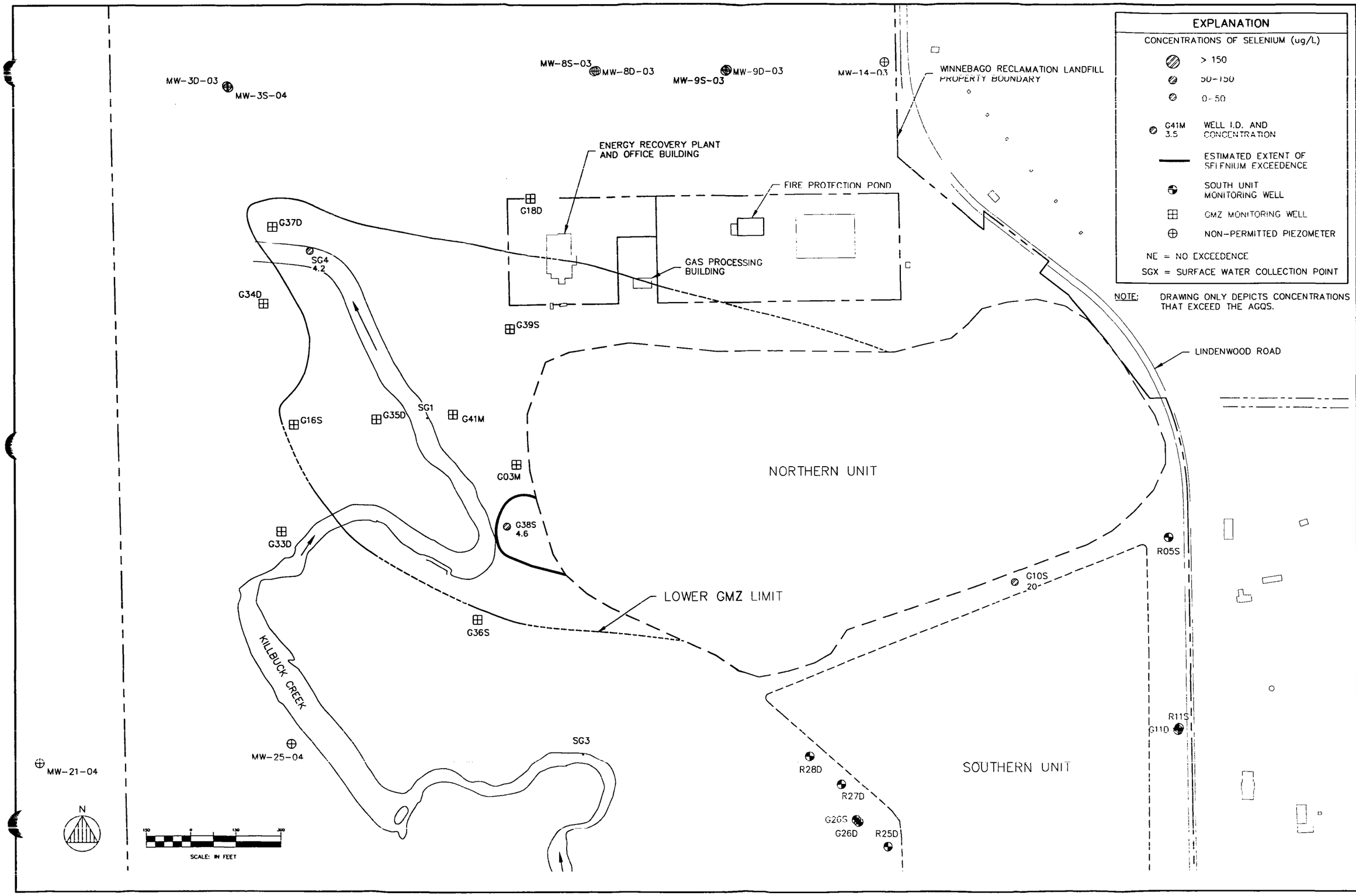

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2ND QUARTER 2004 SELENIUM EXCEEDENCES
LOWER ZONE

PLANS PREPARED FOR
WINNEBAGO RECLAMATION SERVICE, INC.
PAGEL LANDFILL FACILITY
ROCKFORD, WINNEBAGO COUNTY, ILLINOIS

DATE: JUNE 2004
PROJECT ID: 90-114
FILE: J:\DWG\XT\GMZ_LOWER ZONE 06-23-04
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