PALOS VERDES LANDFILL
REMEDIAL INVESTIGATION REPORT

APPENDIX E.3

CONTAMINANT TRANSPORT REPORT
(DAMES & MOORE, INC.) (CONTINUED)

APPENDIX F

PREDICTIVE ANALYSIS RESULTS

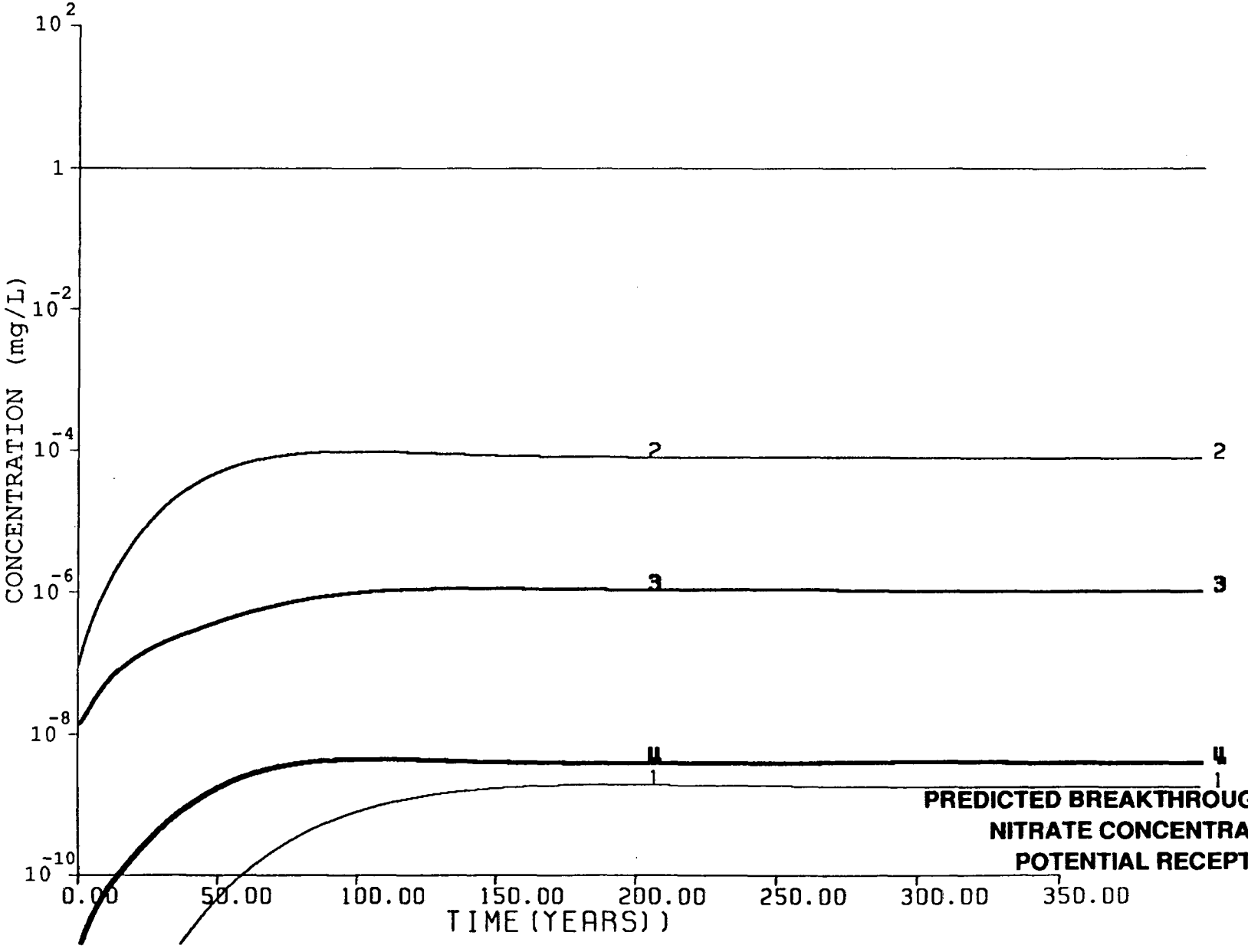

Figure F.1a

PREDICTED BREAKTHROUGH CURVES OF NITRATE CONCENTRATION (mg/l) AT POTENTIAL RECEPTORS, LAYER 1

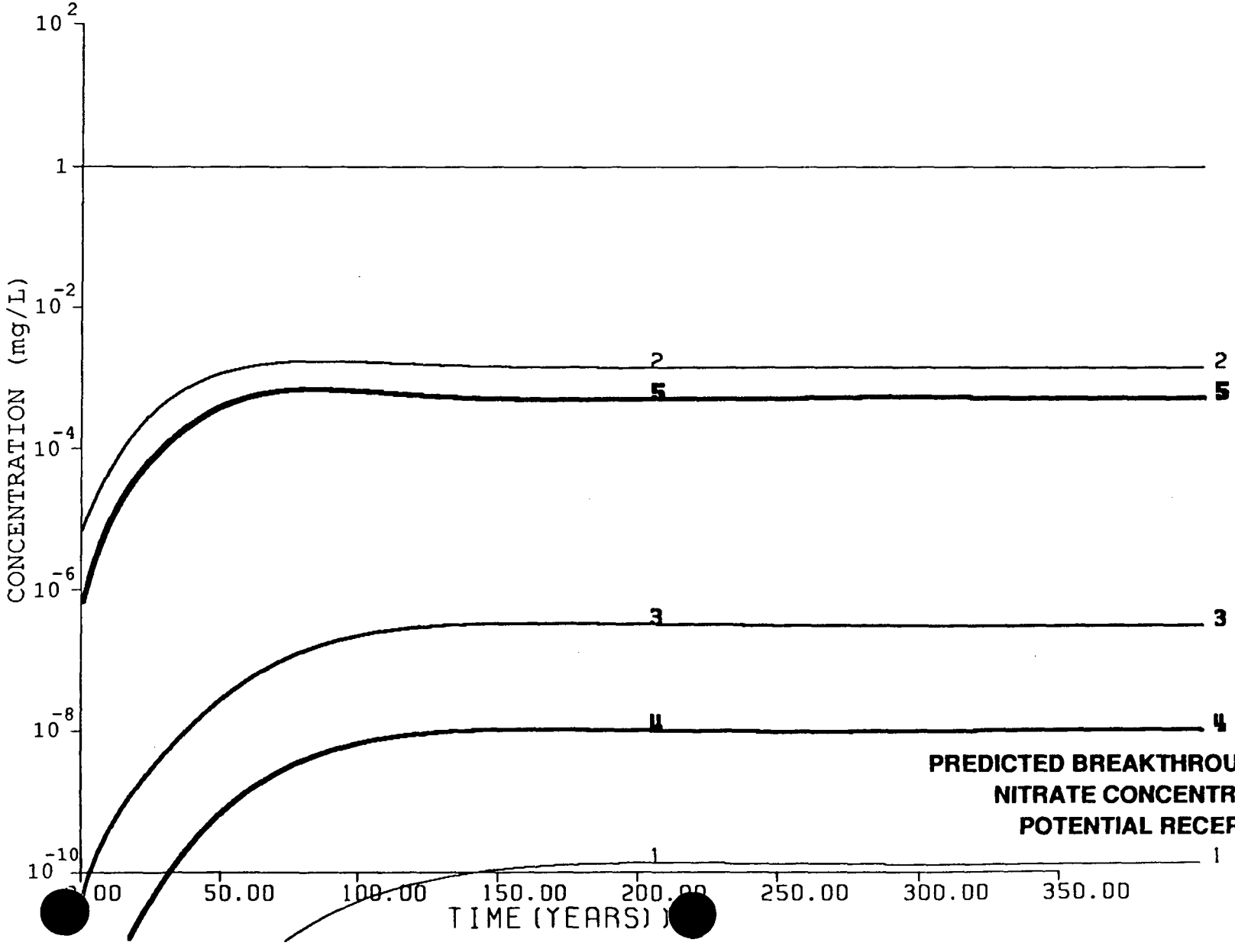

Figure F.1b

PREDICTED BREAKTHROUGH CURVES OF NITRATE CONCENTRATION (mg/l) AT POTENTIAL RECEPTORS, LAYER 2

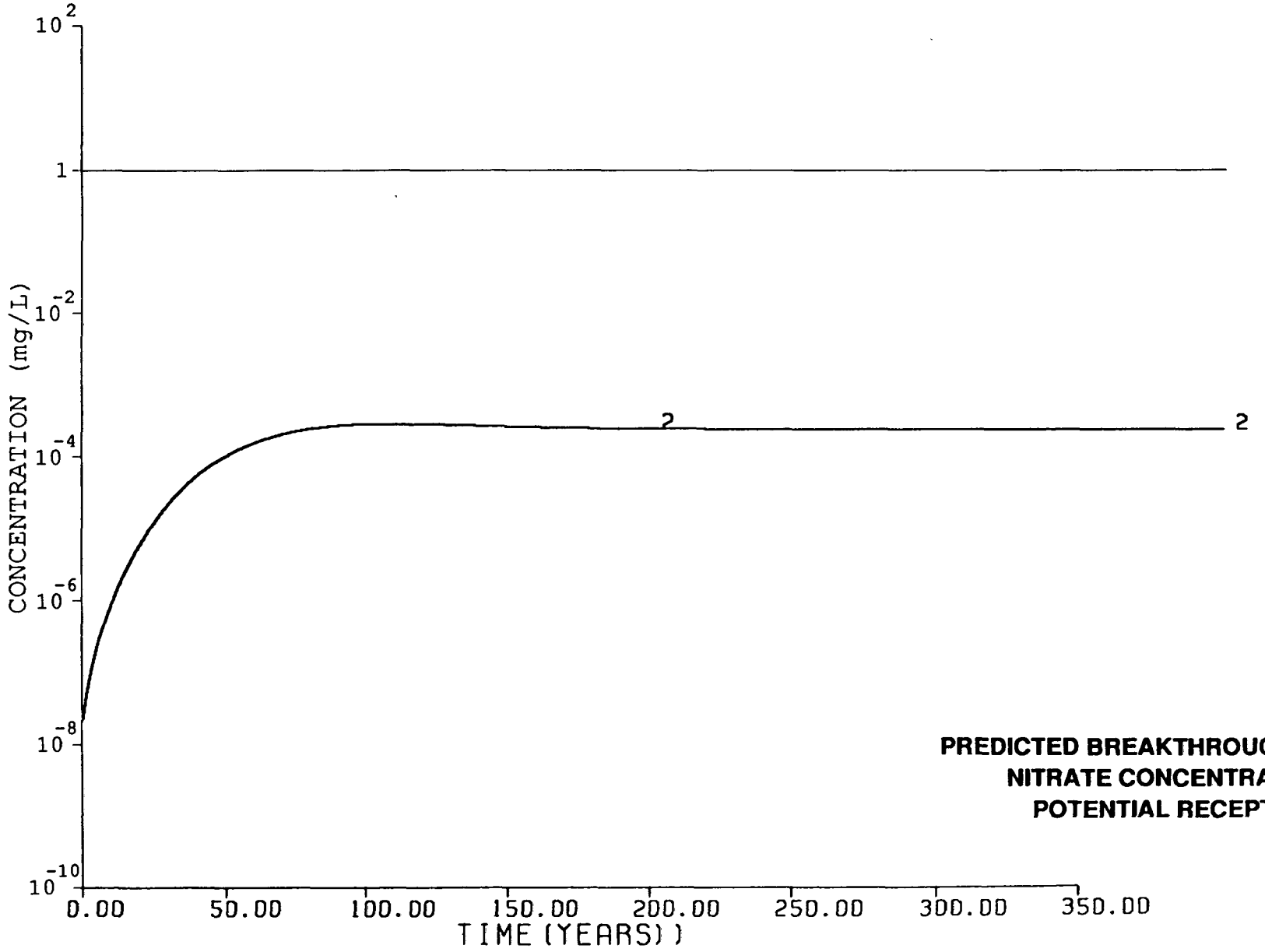

Figure F.1c

PREDICTED BREAKTHROUGH CURVES OF NITRATE CONCENTRATION (mg/l) AT POTENTIAL RECEPTORS, LAYER 3

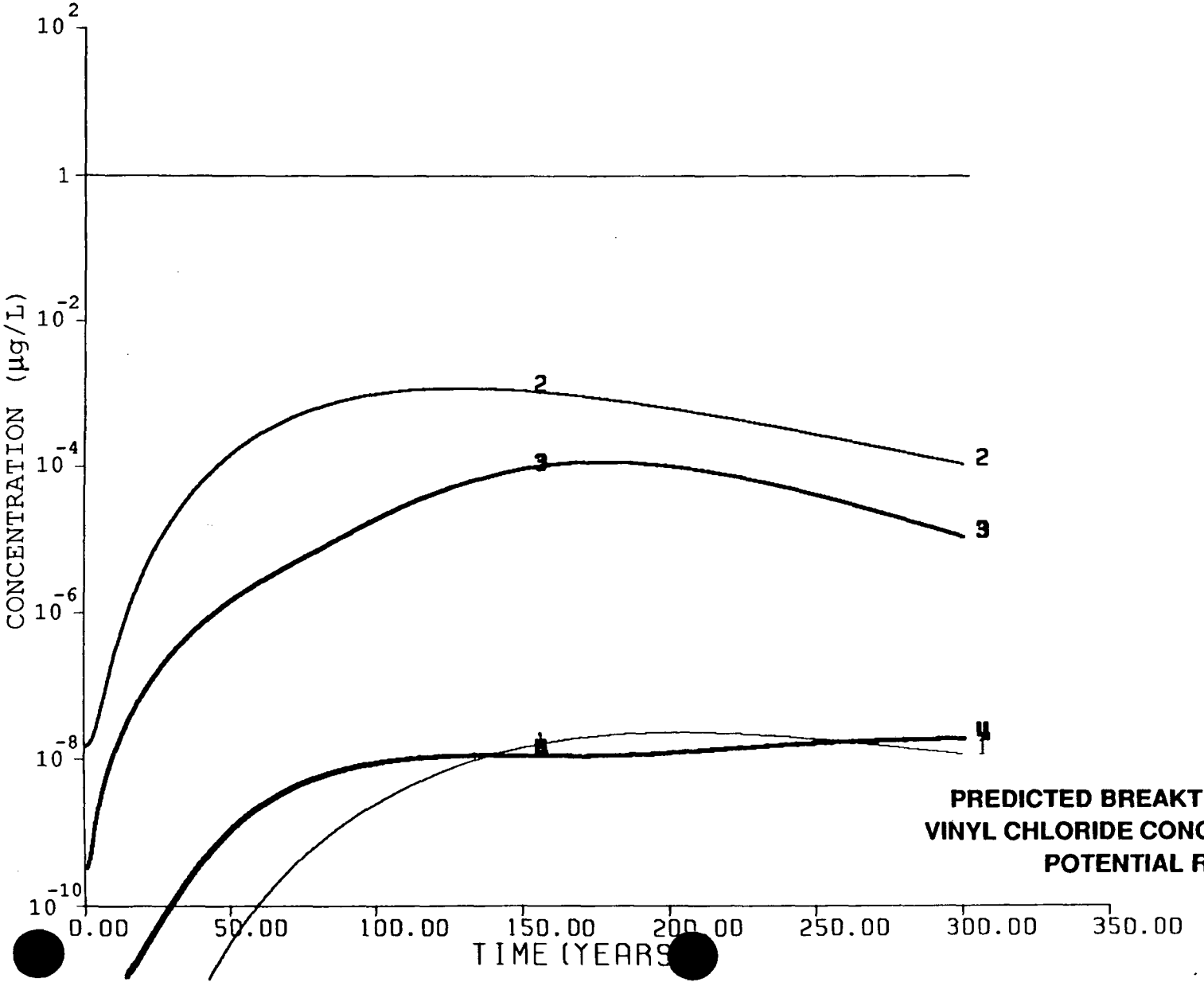

Figure F.2a

PREDICTED BREAKTHROUGH CURVES OF VINYL CHLORIDE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 1

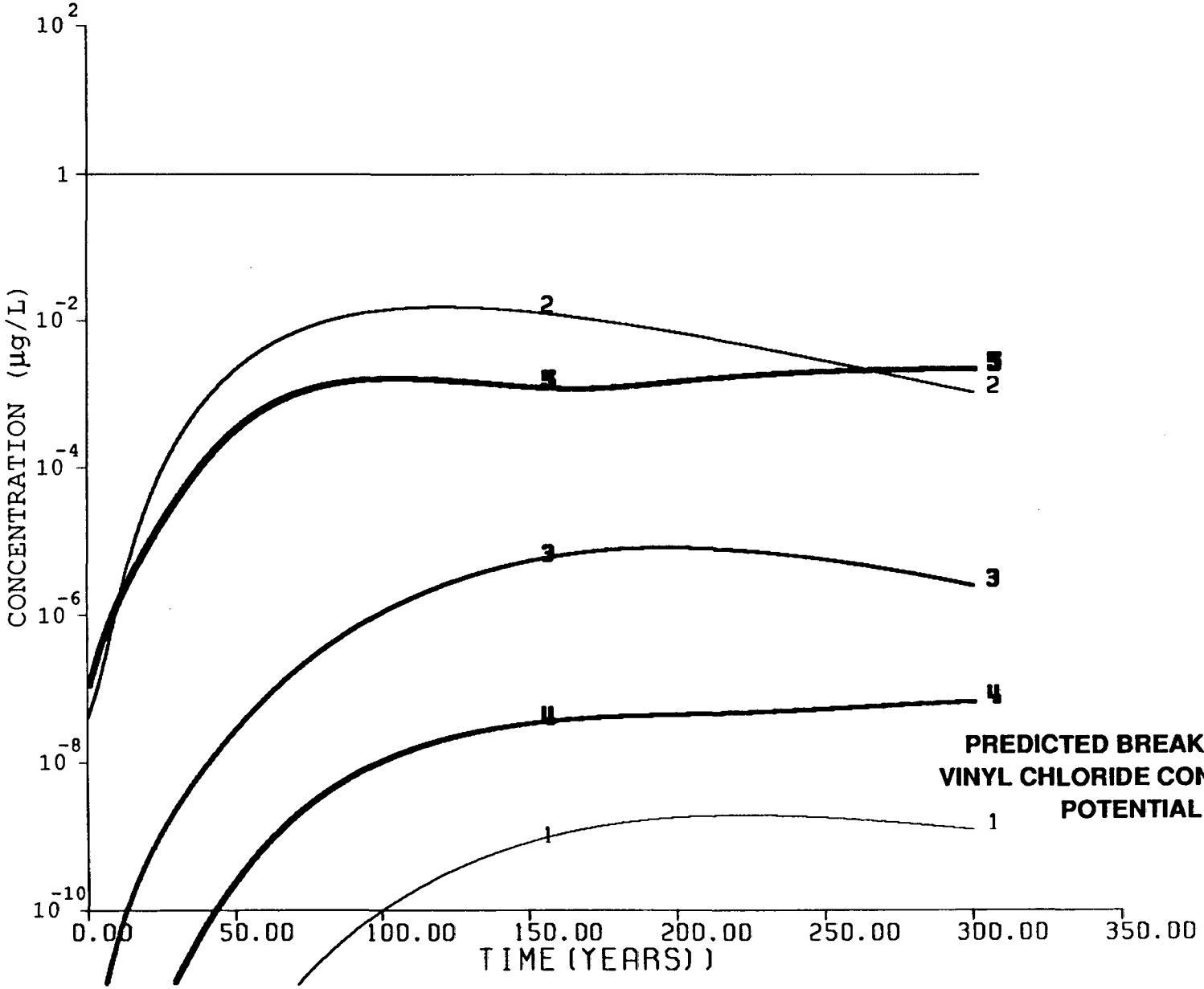

Figure F.2b

PREDICTED BREAKTHROUGH CURVES OF VINYL CHLORIDE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 2

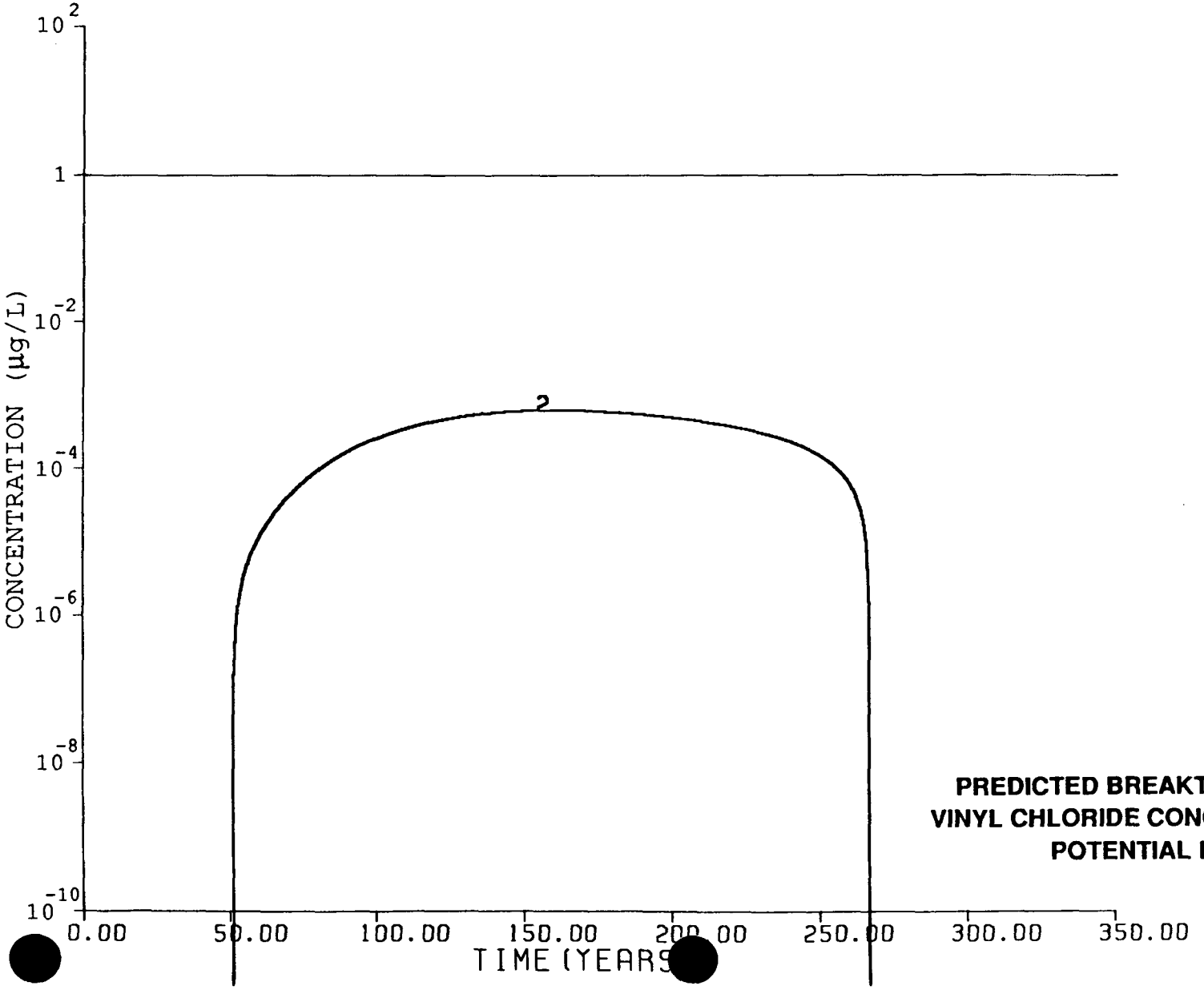

Figure F.2c

PREDICTED BREAKTHROUGH CURVES OF VINYL CHLORIDE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 3

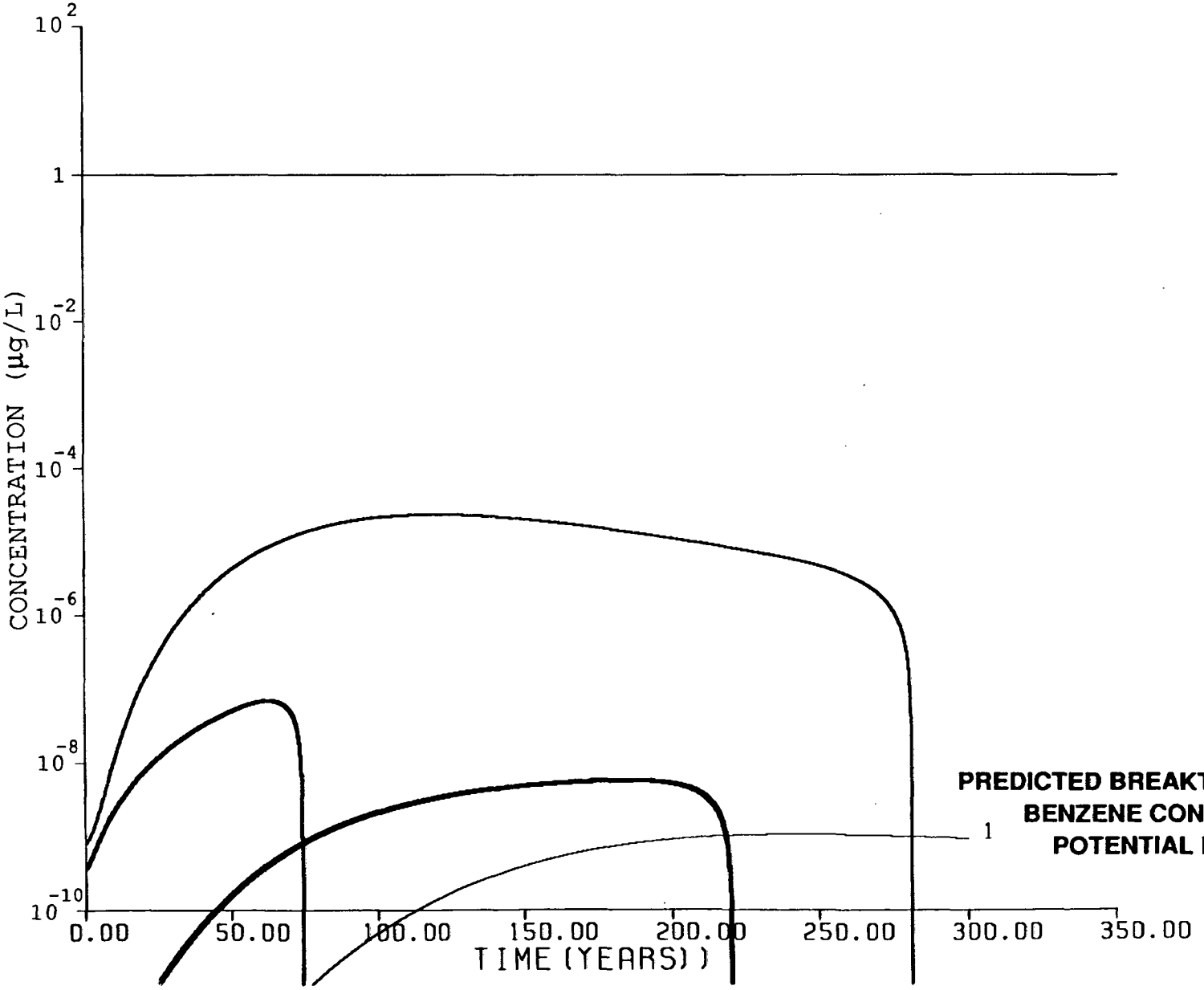

Figure F.3a

PREDICTED BREAKTHROUGH CURVES OF BENZENE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 1

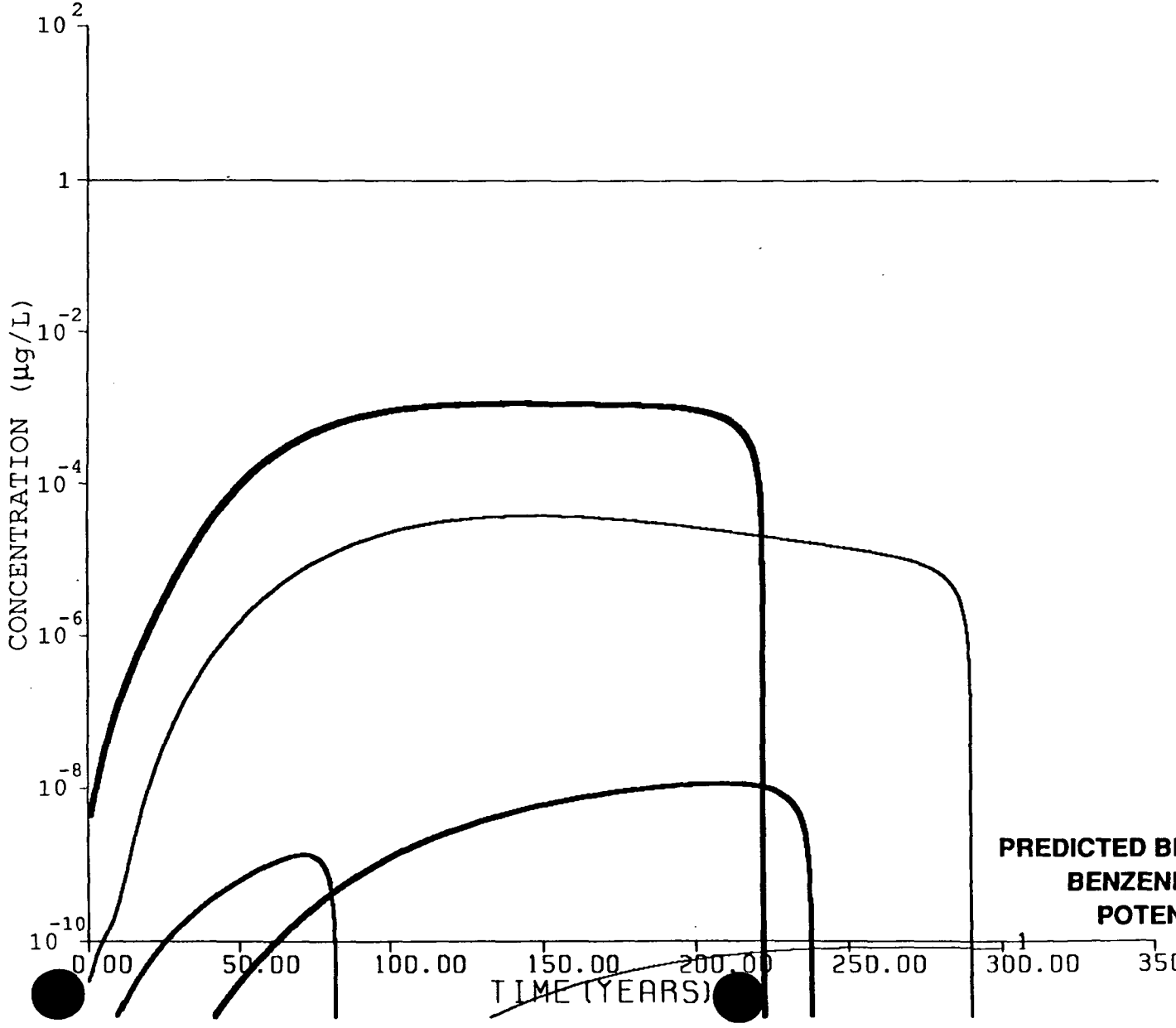

Figure F.3b

PREDICTED BREAKTHROUGH CURVES OF BENZENE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 2

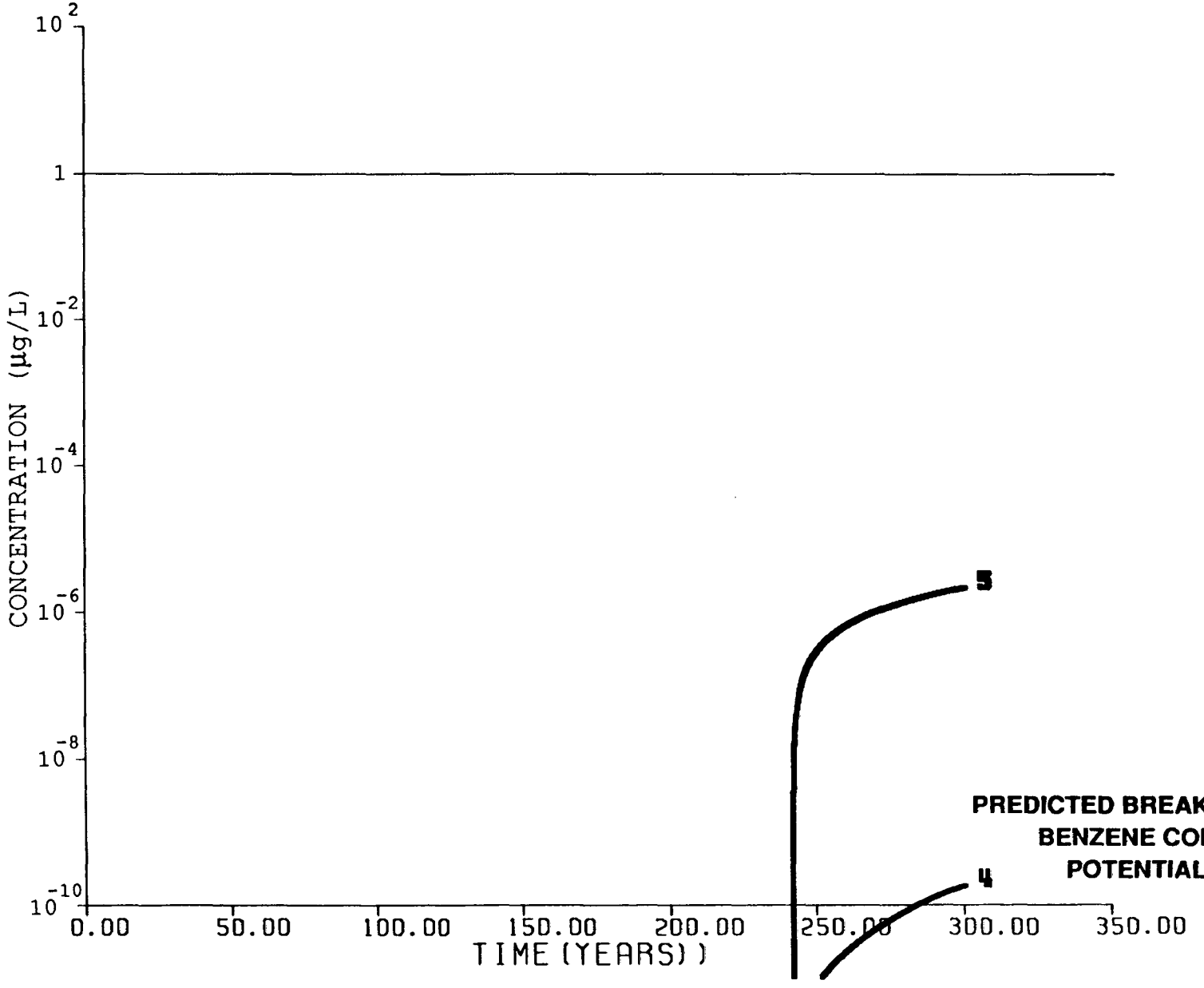

Figure F.3c

PREDICTED BREAKTHROUGH CURVES OF BENZENE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 3

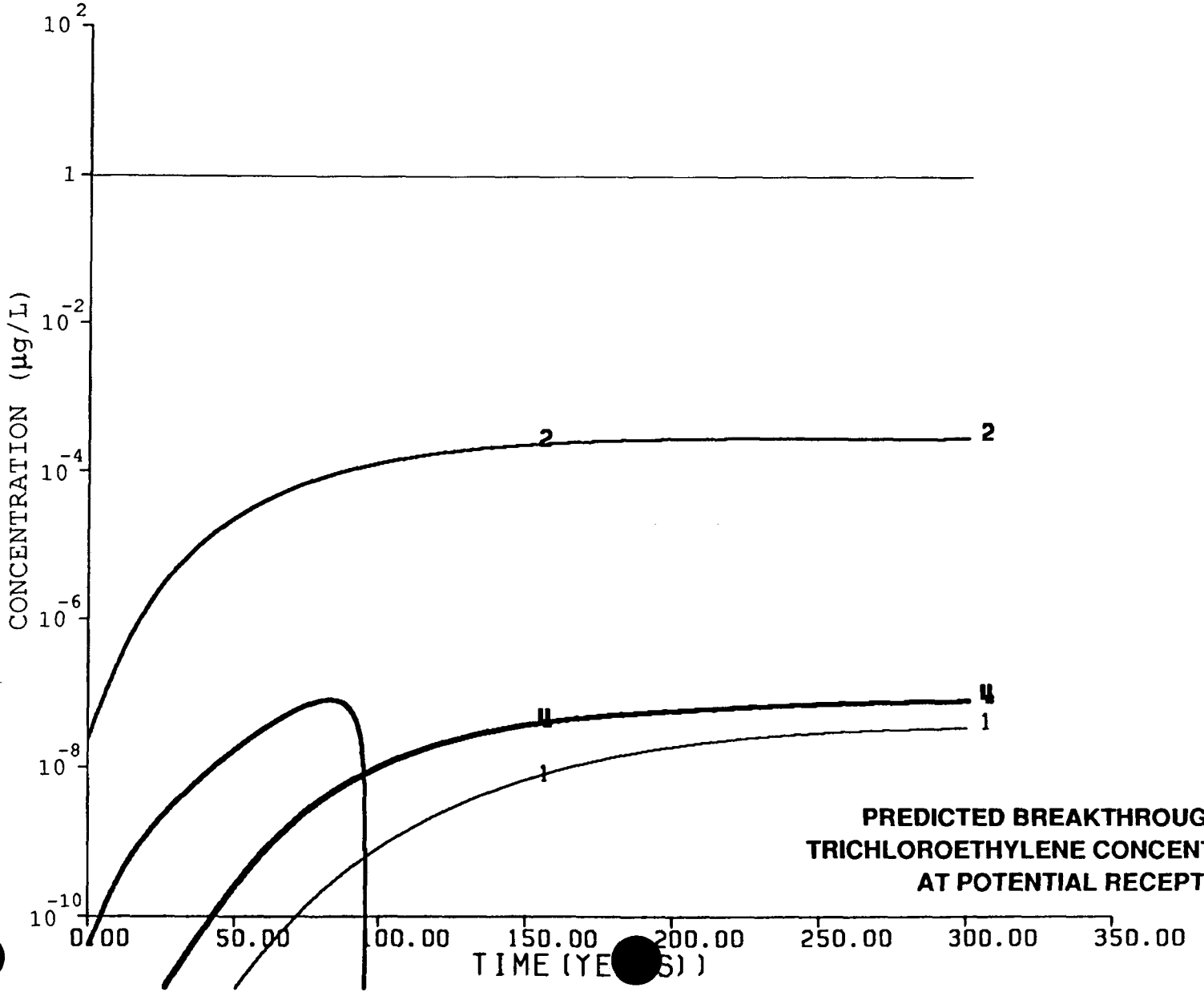

Figure F.4a

PREDICTED BREAKTHROUGH CURVES OF TRICHLOROETHYLENE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 1

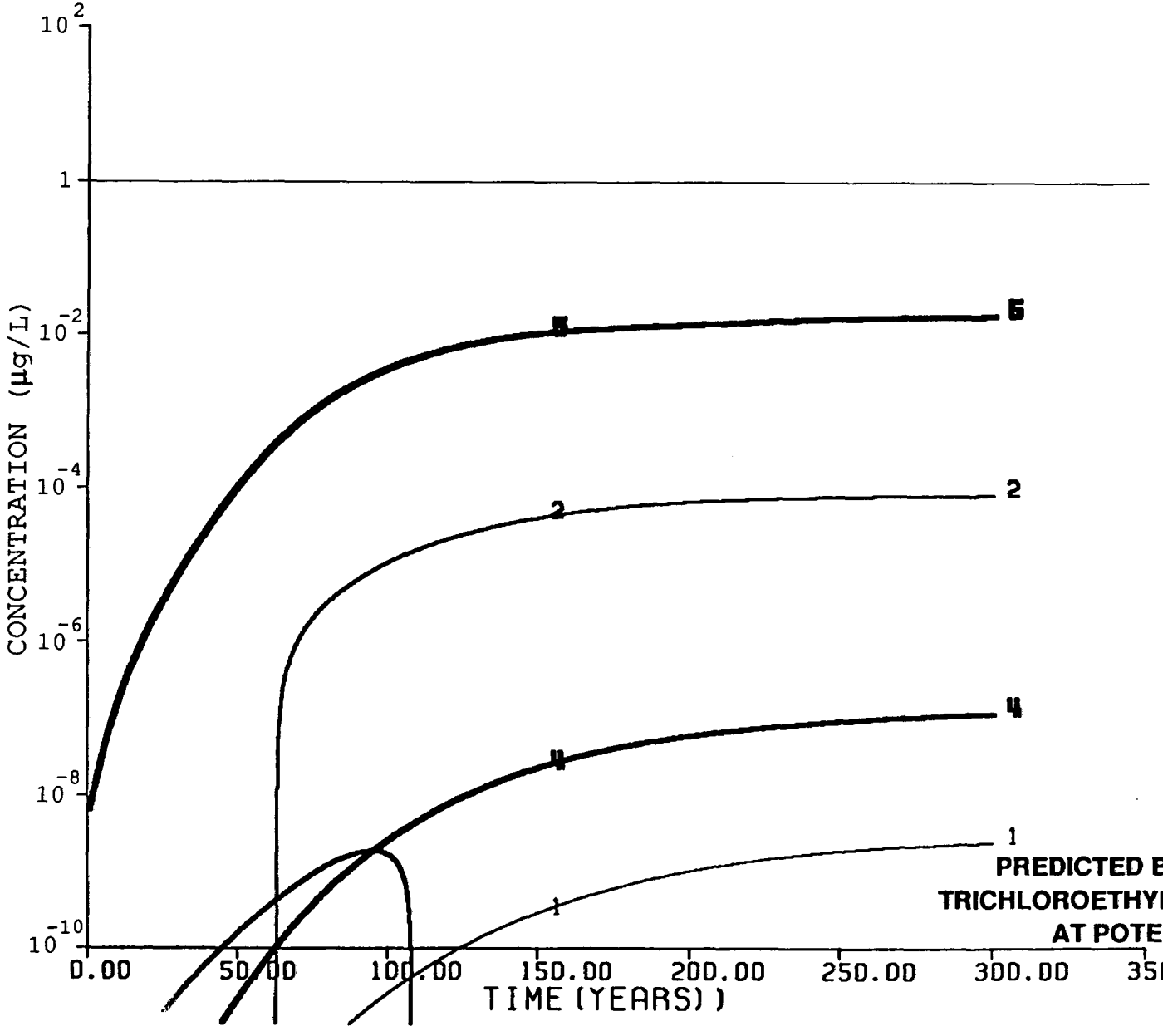

Figure F.4b

PREDICTED BREAKTHROUGH CURVES OF TRICHLOROETHYLENE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 2

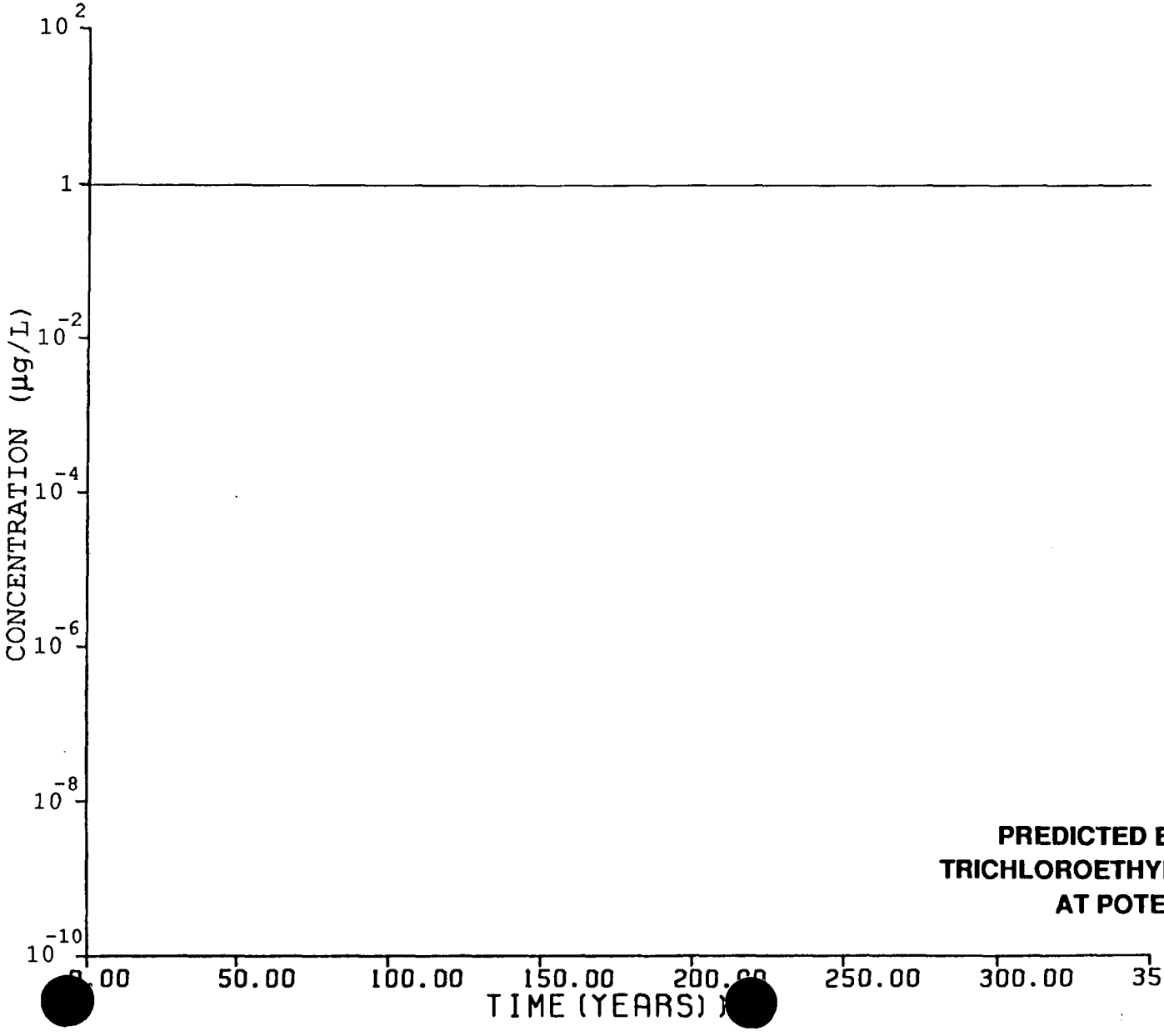

Figure F.4c

PREDICTED BREAKTHROUGH CURVES OF TRICHLOROETHYLENE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 3

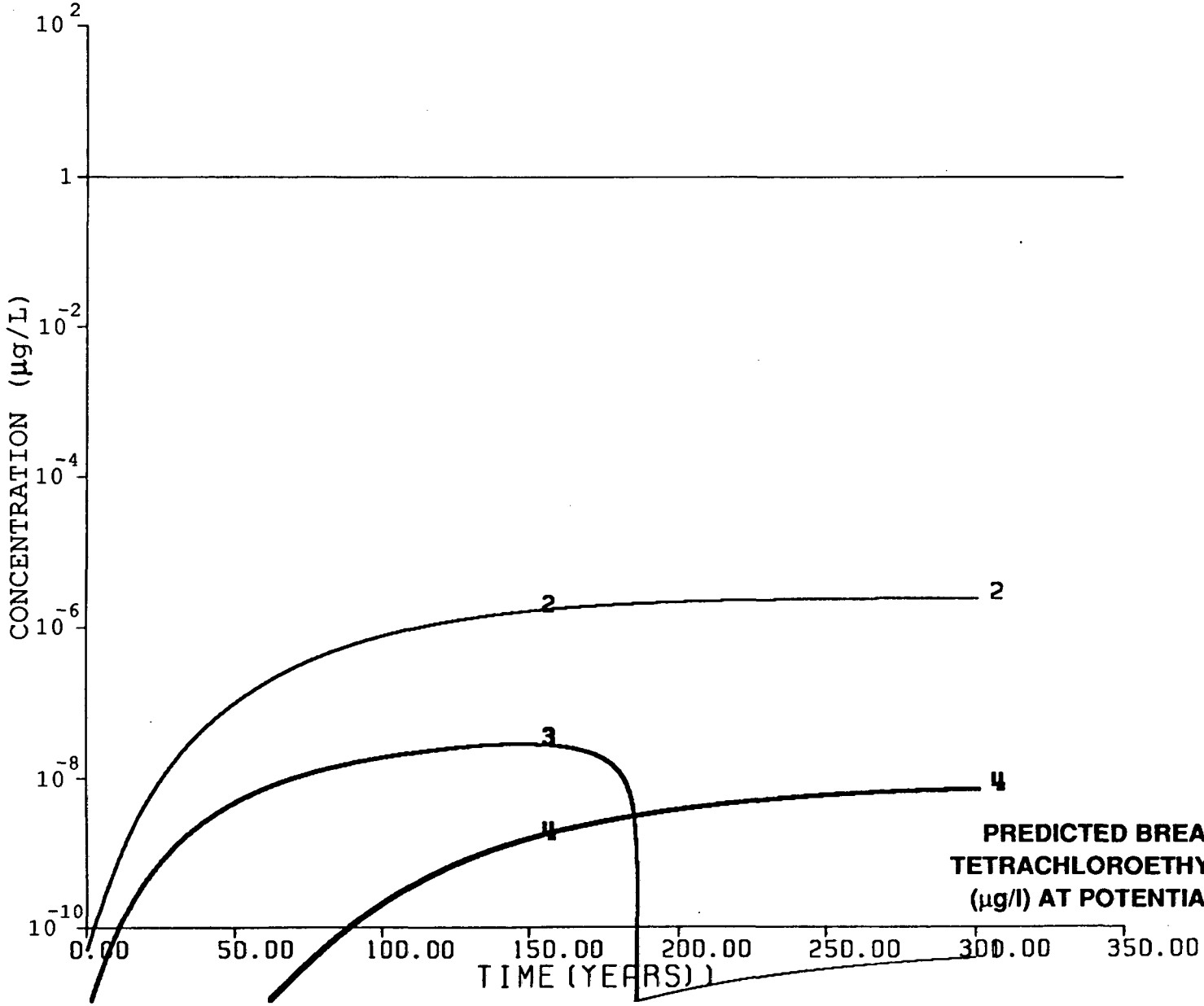

Figure F.5a

PREDICTED BREAKTHROUGH CURVES OF TETRACHLOROETHYLENE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 1

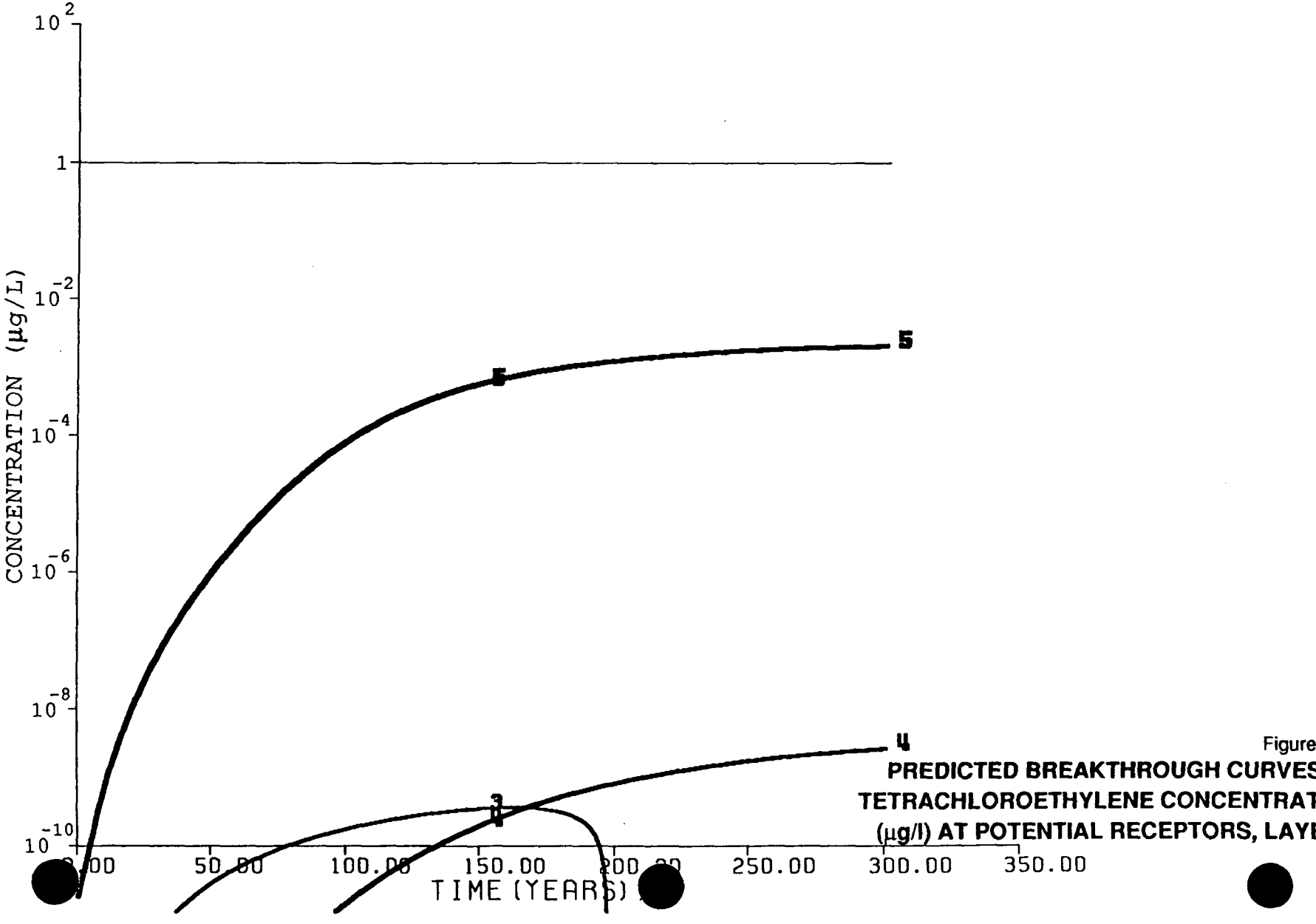

Figure F.5b
PREDICTED BREAKTHROUGH CURVES OF TETRACHLOROETHYLENE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 2

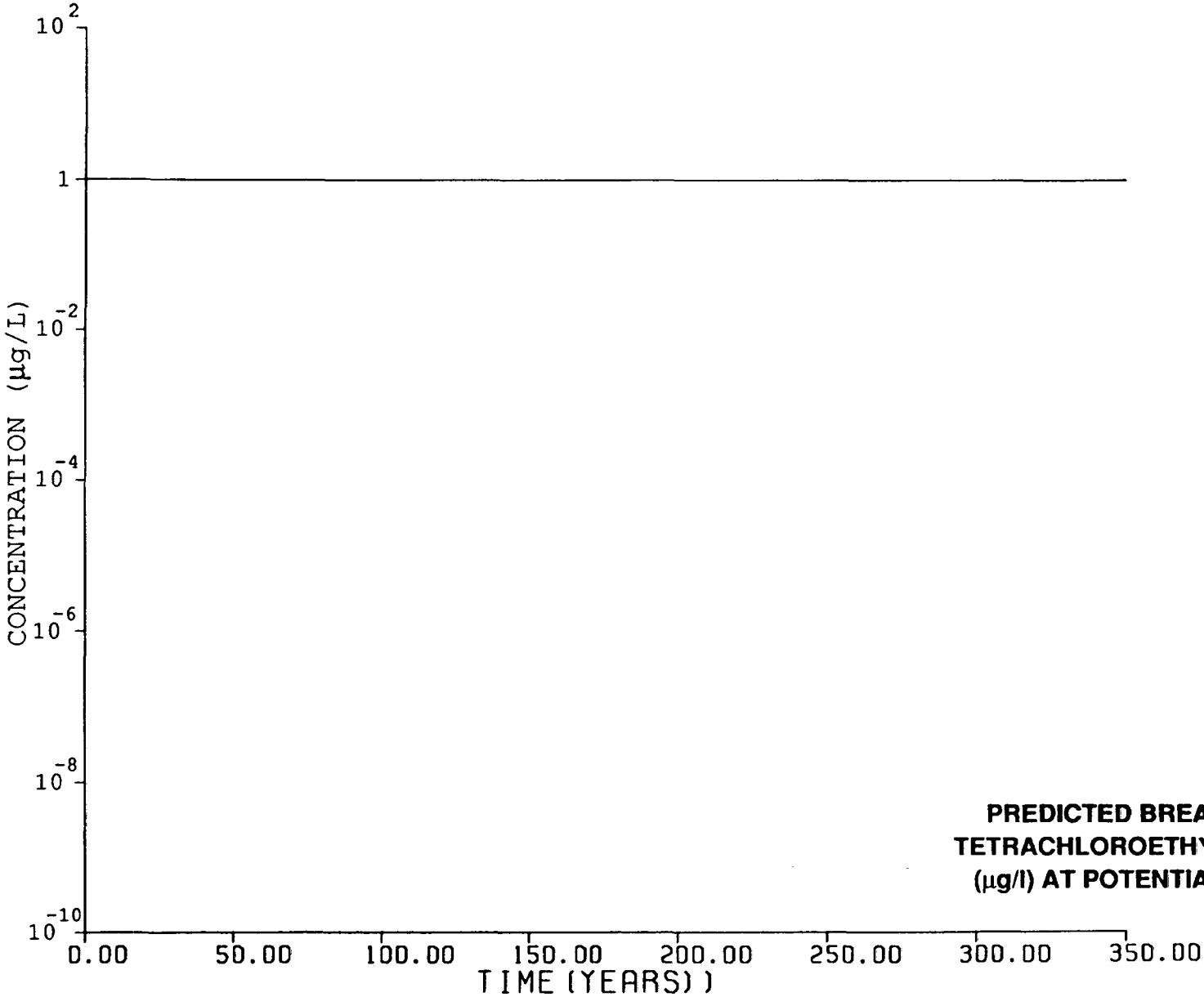

Figure F.5c

PREDICTED BREAKTHROUGH CURVES OF TETRACHLOROETHYLENE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 3

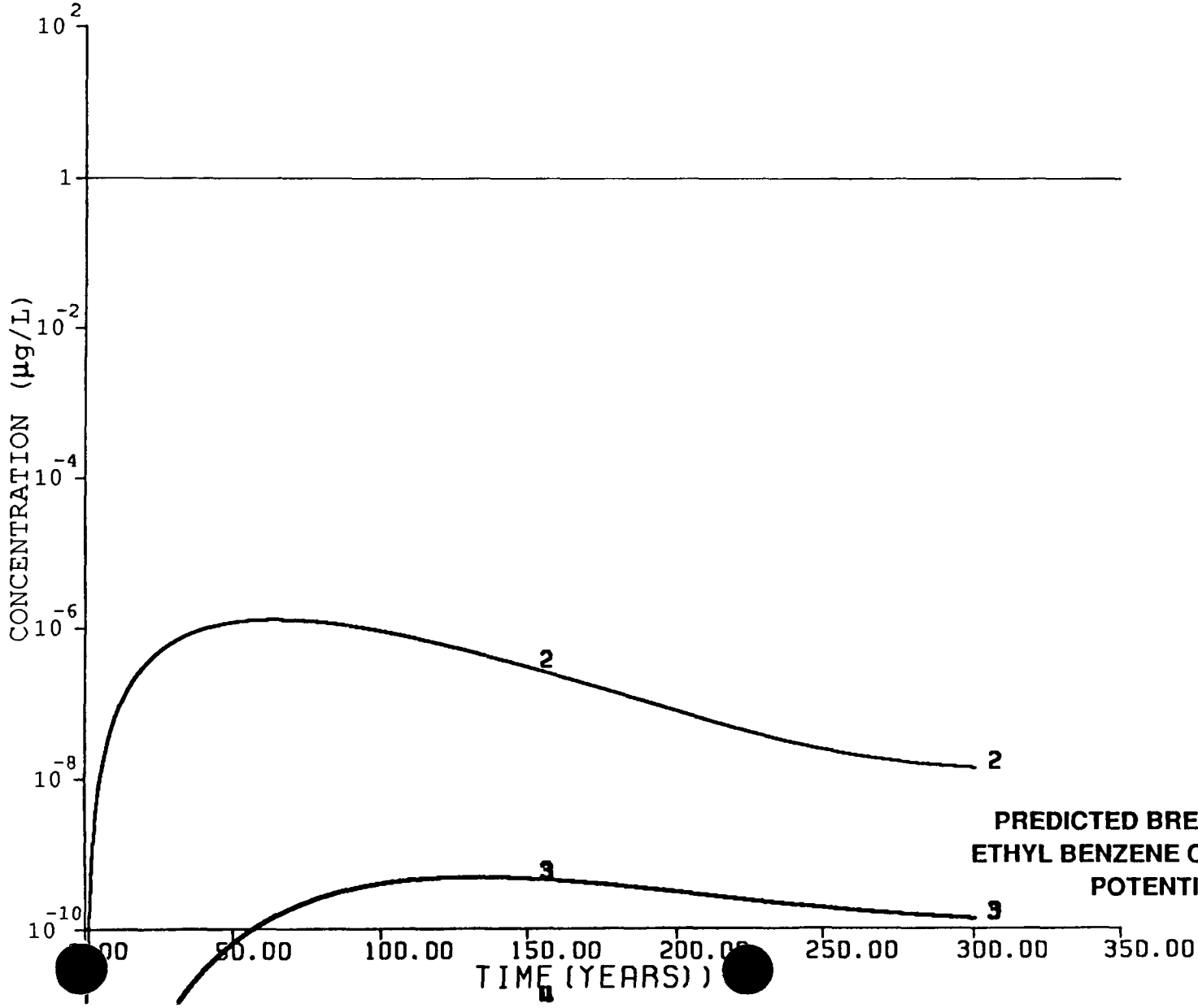

Figure F.6a

PREDICTED BREAKTHROUGH CURVES OF ETHYL BENZENE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 1

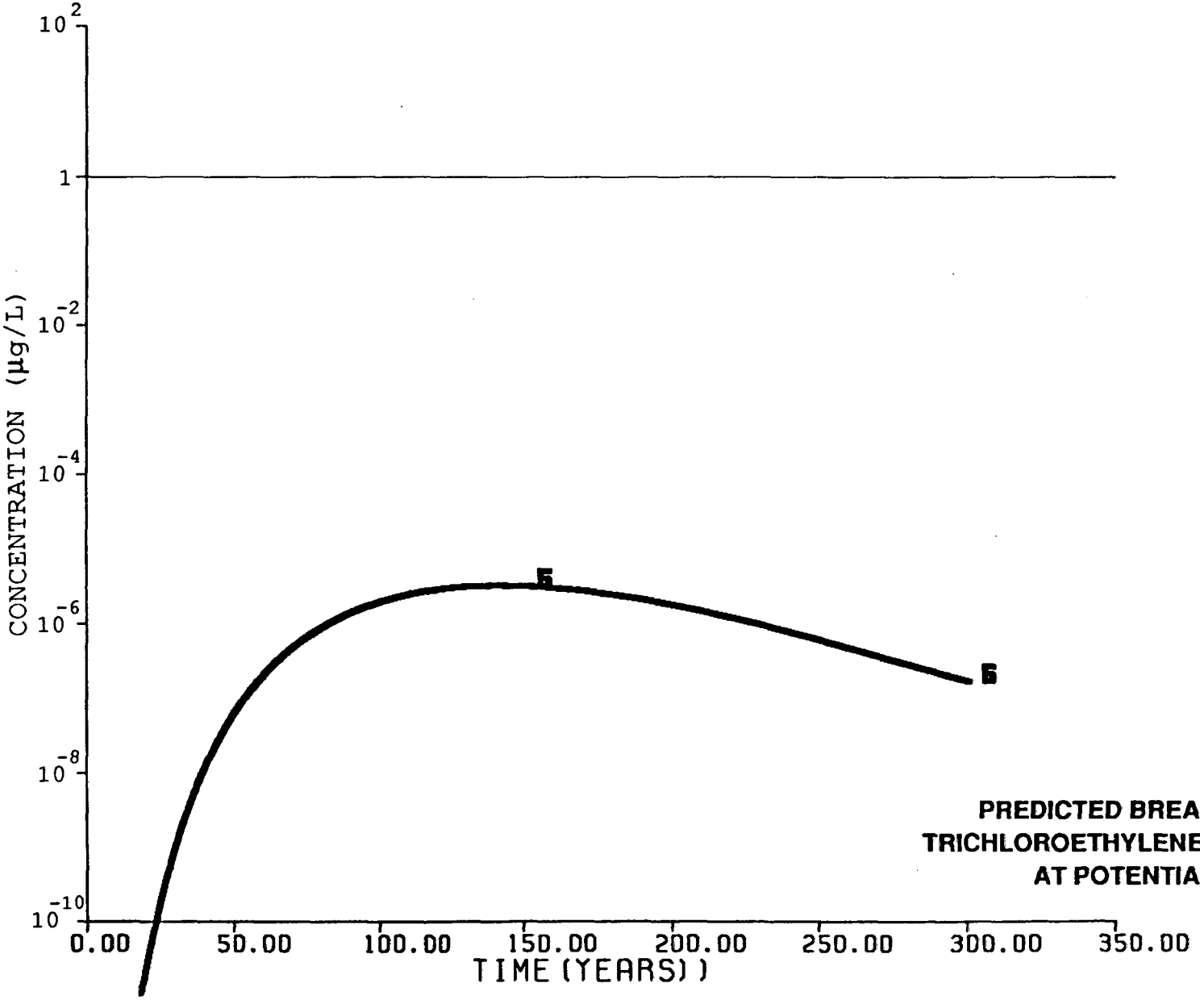

Figure F.6b

PREDICTED BREAKTHROUGH CURVES OF TRICHLOROETHYLENE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 2

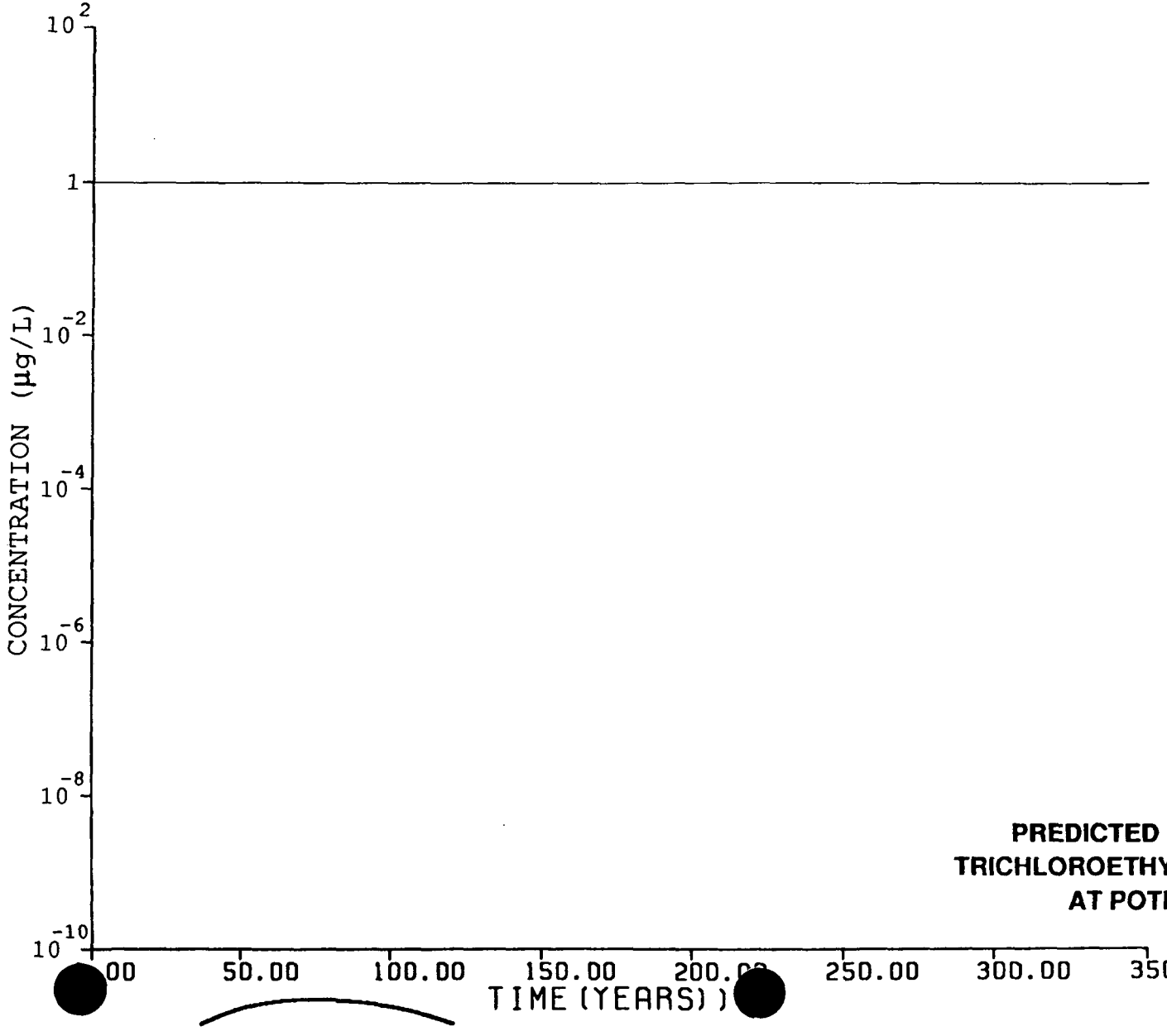

Figure F.6c

PREDICTED BREAKTHROUGH CURVES OF TRICHLOROETHYLENE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 3

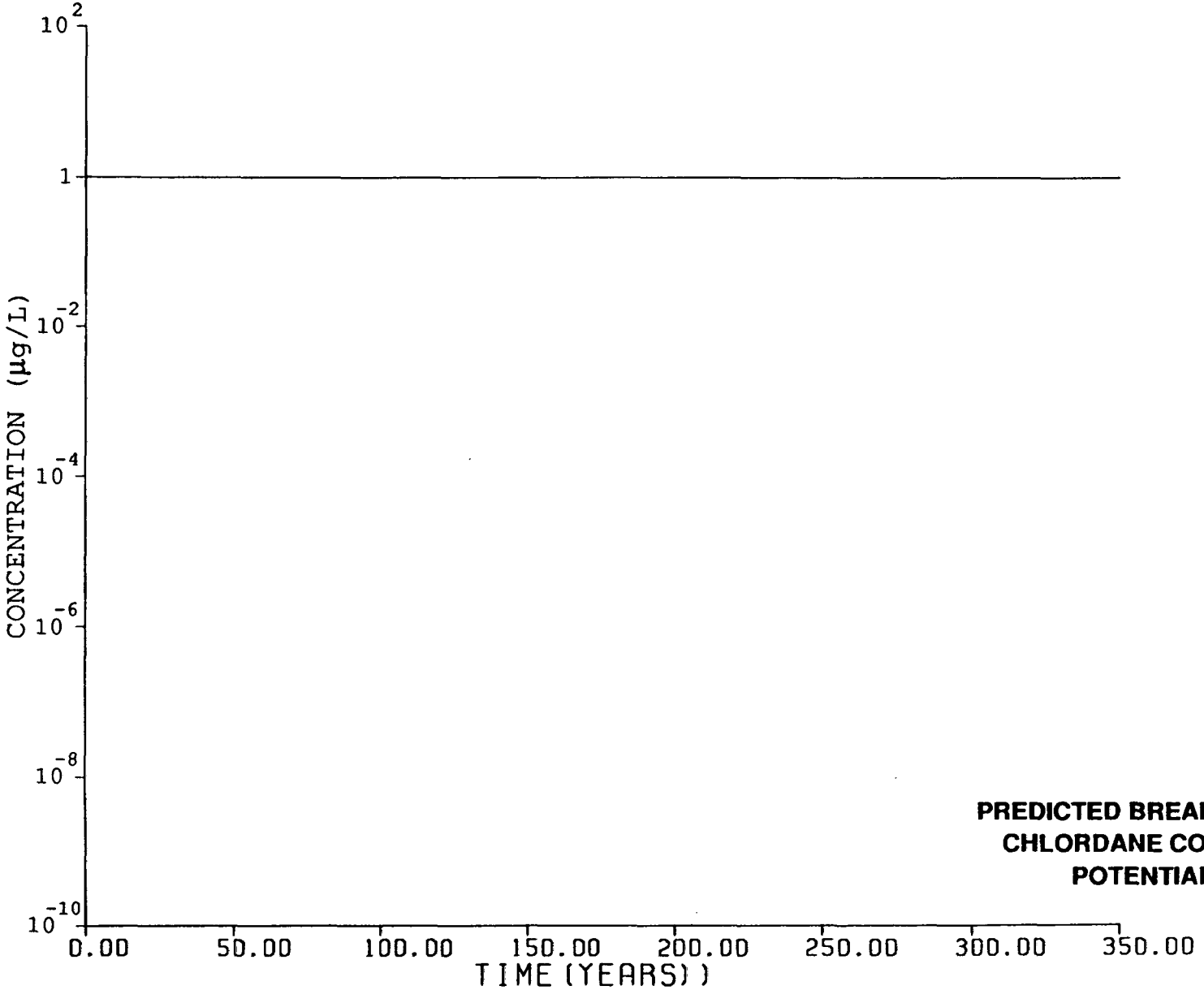

Figure F.7a

PREDICTED BREAKTHROUGH CURVES OF CHLORDANE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 1

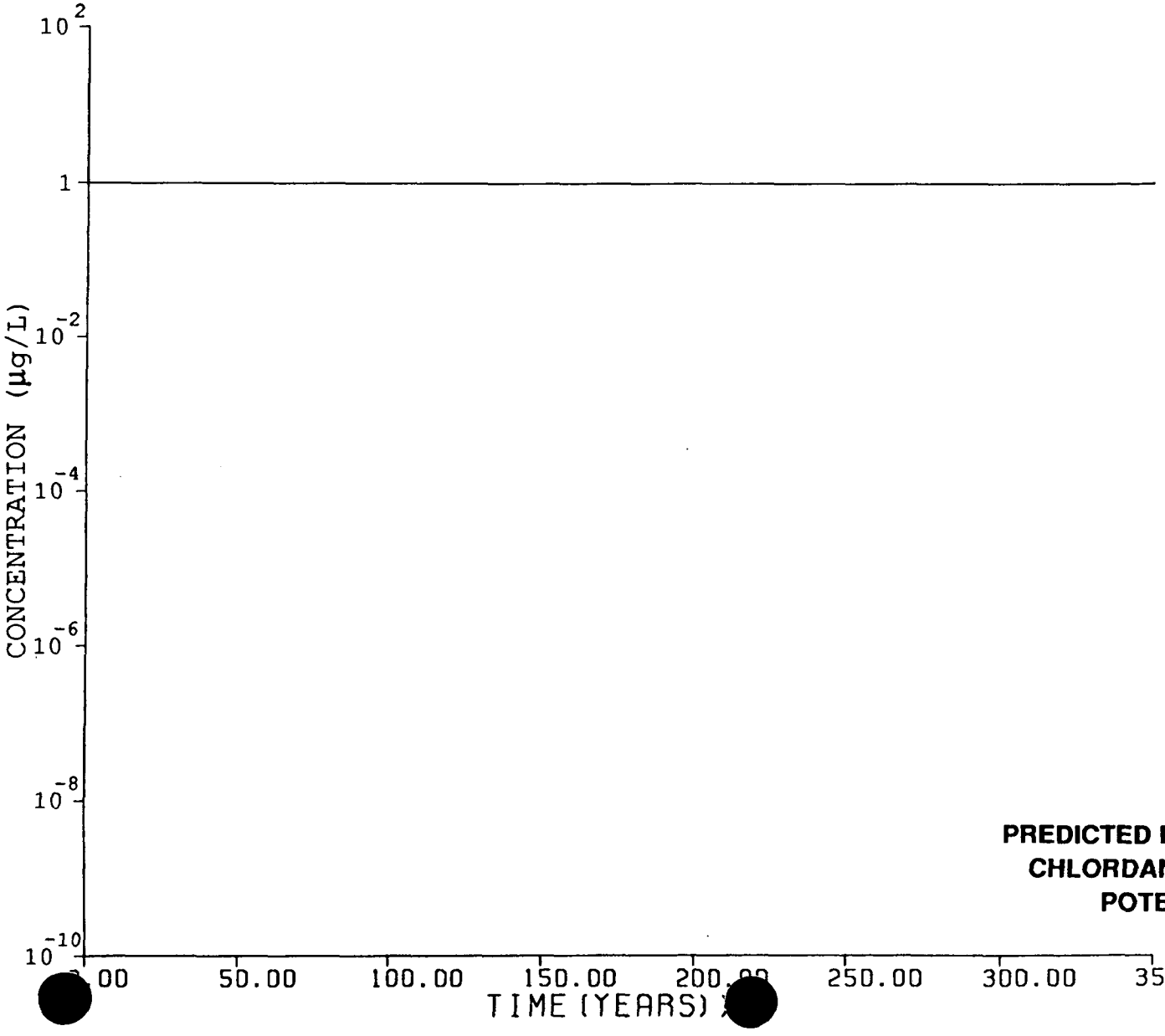

Figure F.7b

PREDICTED BREAKTHROUGH CURVES OF CHLORDANE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 2

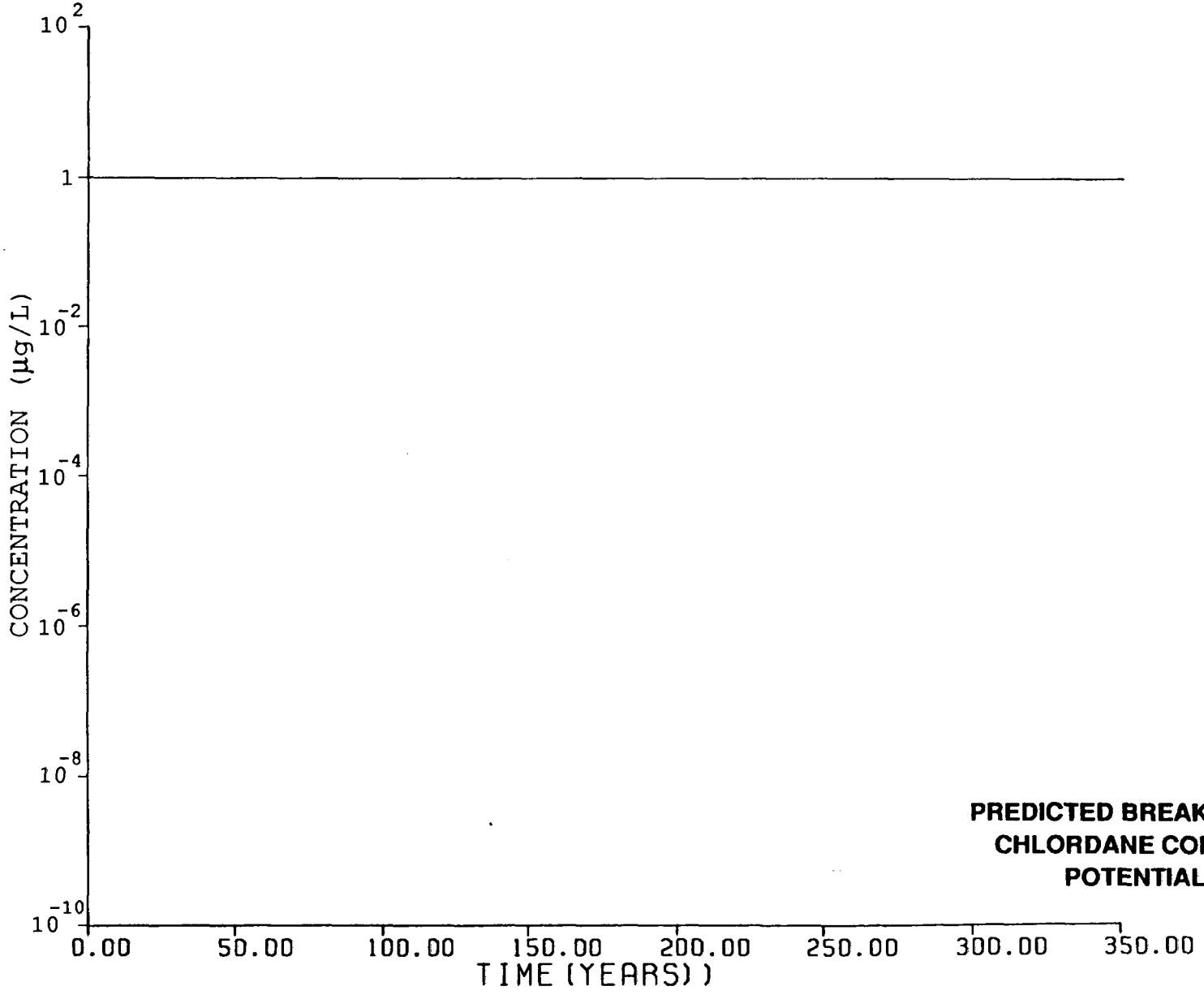

Figure F.7c

PREDICTED BREAKTHROUGH CURVES OF CHLORDANE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 3

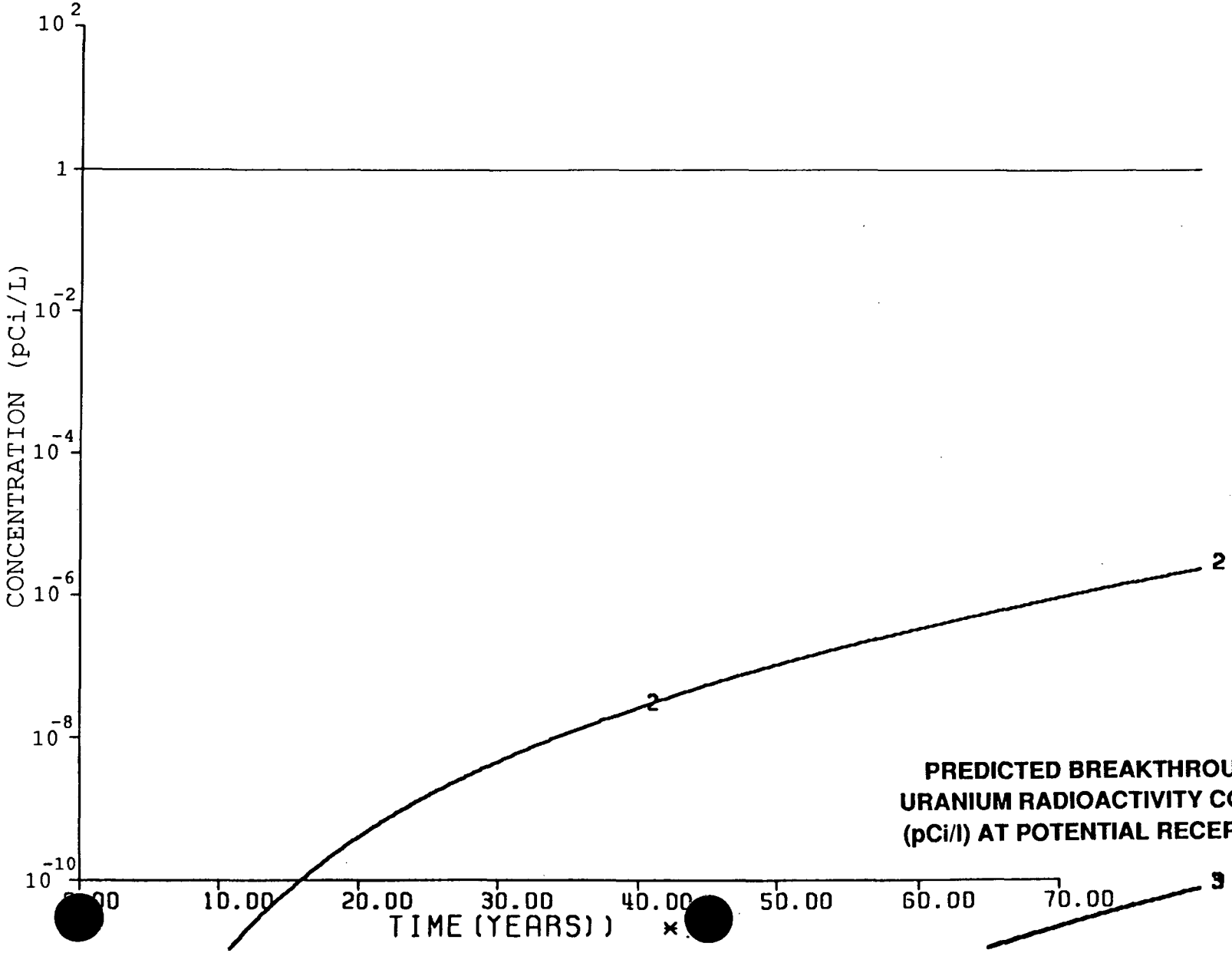

Figure F.8a

PREDICTED BREAKTHROUGH CURVES OF URANIUM RADIOACTIVITY CONCENTRATION (pCi/l) AT POTENTIAL RECEPTORS, LAYER 1

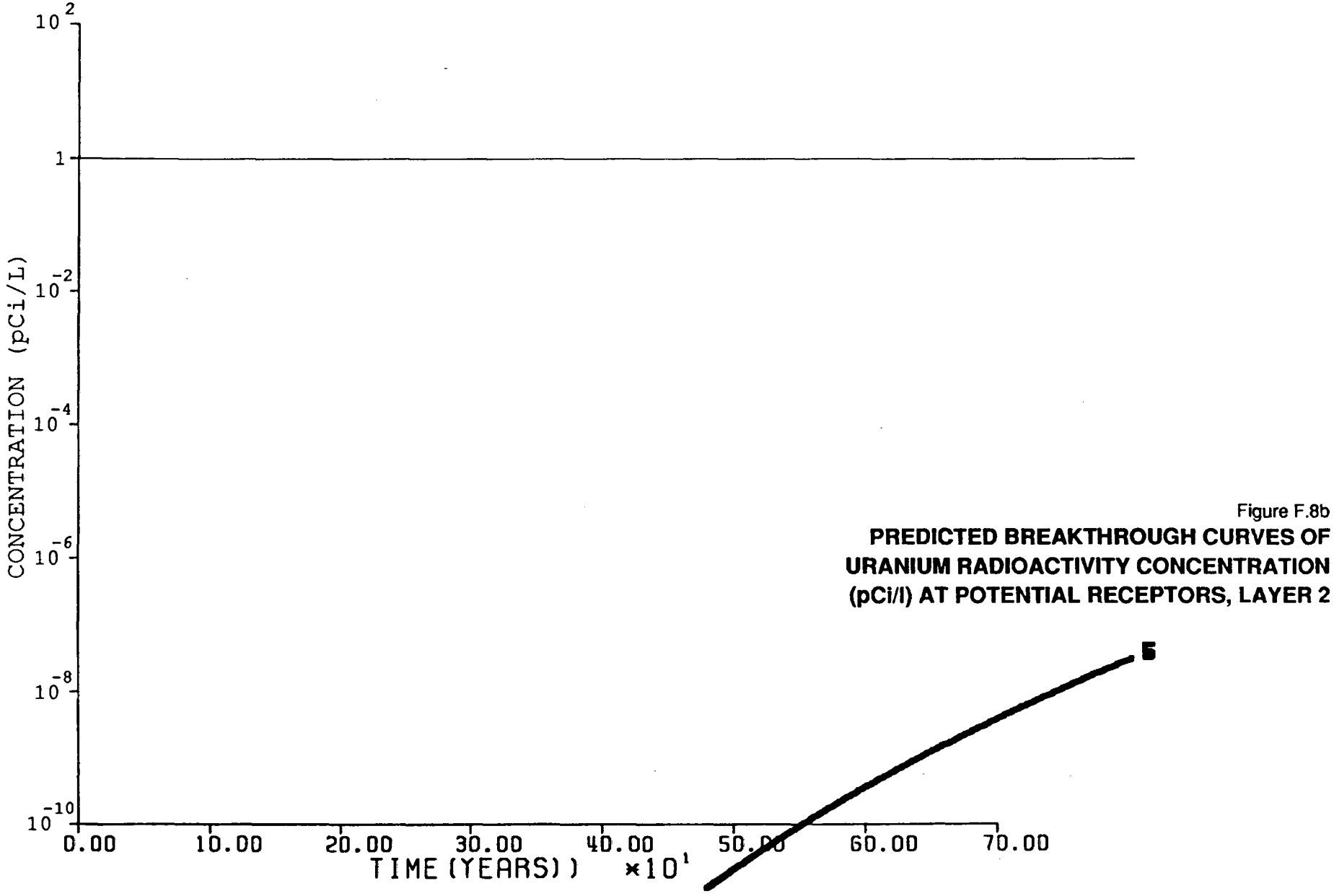

Figure F.8b

PREDICTED BREAKTHROUGH CURVES OF URANIUM RADIOACTIVITY CONCENTRATION (pCi/l) AT POTENTIAL RECEPTORS, LAYER 2

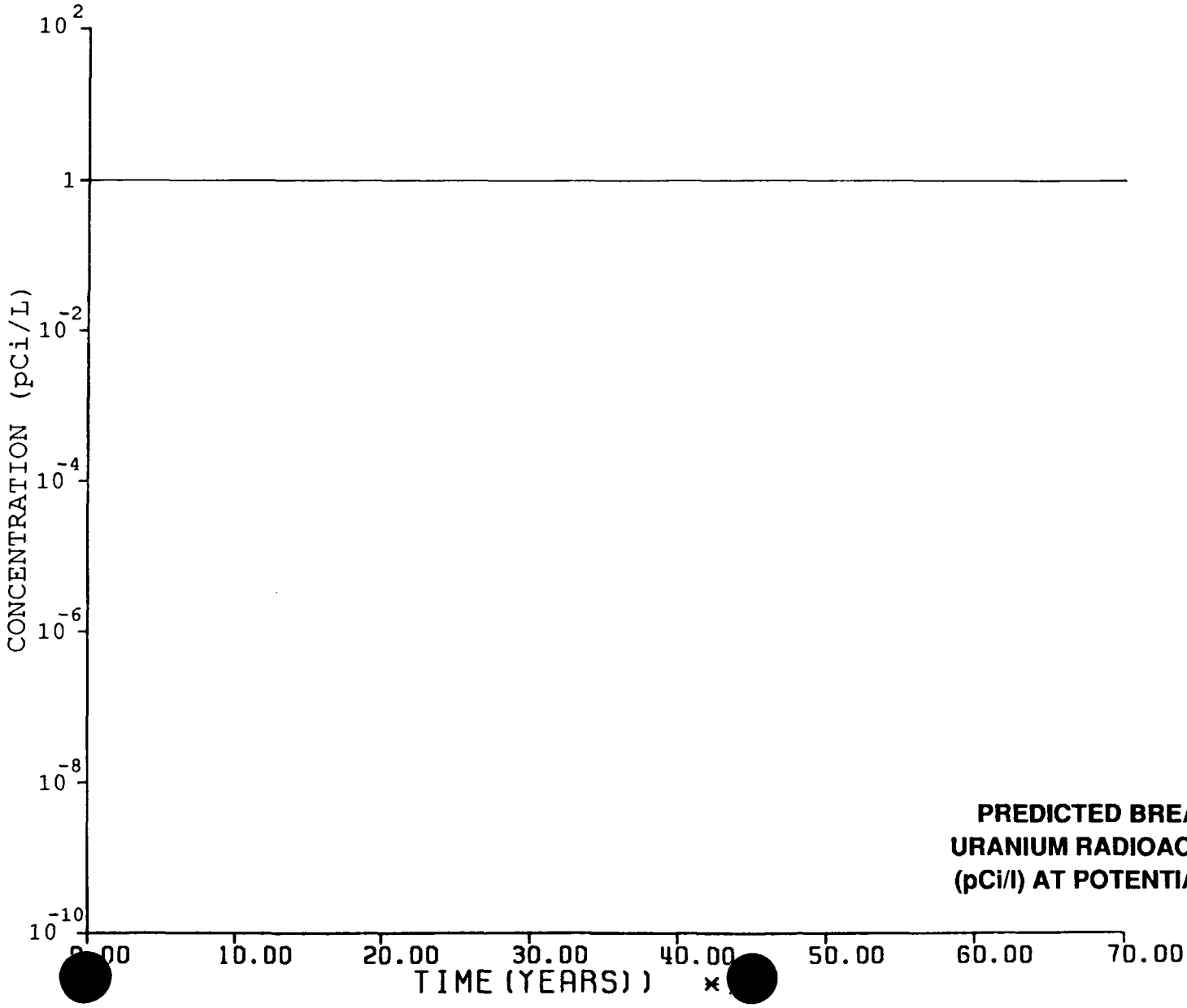

Figure F.8c

PREDICTED BREAKTHROUGH CURVES OF URANIUM RADIOACTIVITY CONCENTRATION (pCi/l) AT POTENTIAL RECEPTORS, LAYER 3

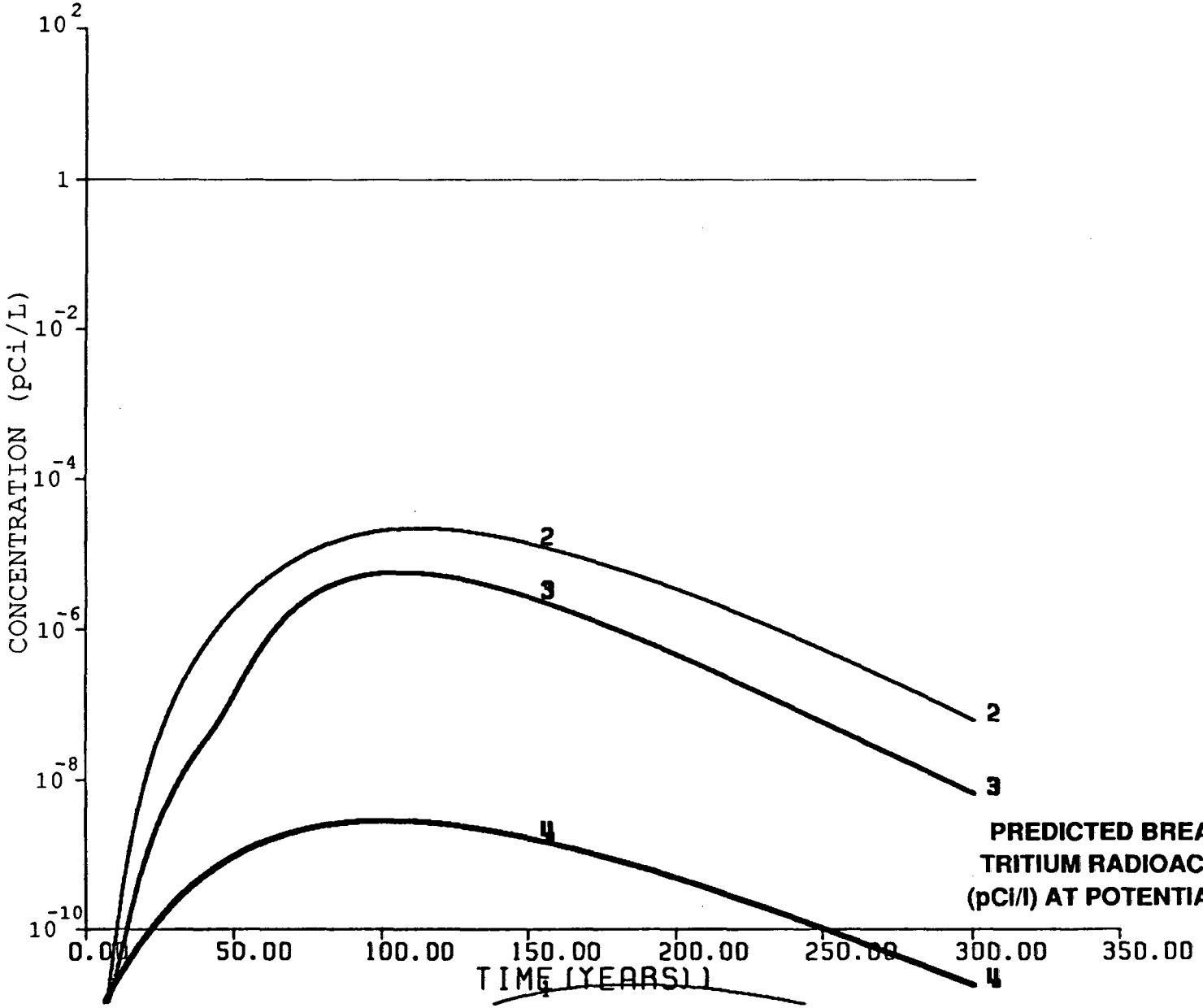

Figure F.9a

PREDICTED BREAKTHROUGH CURVES OF TRITIUM RADIOACTIVITY CONCENTRATION (pCi/l) AT POTENTIAL RECEPTORS, LAYER 1

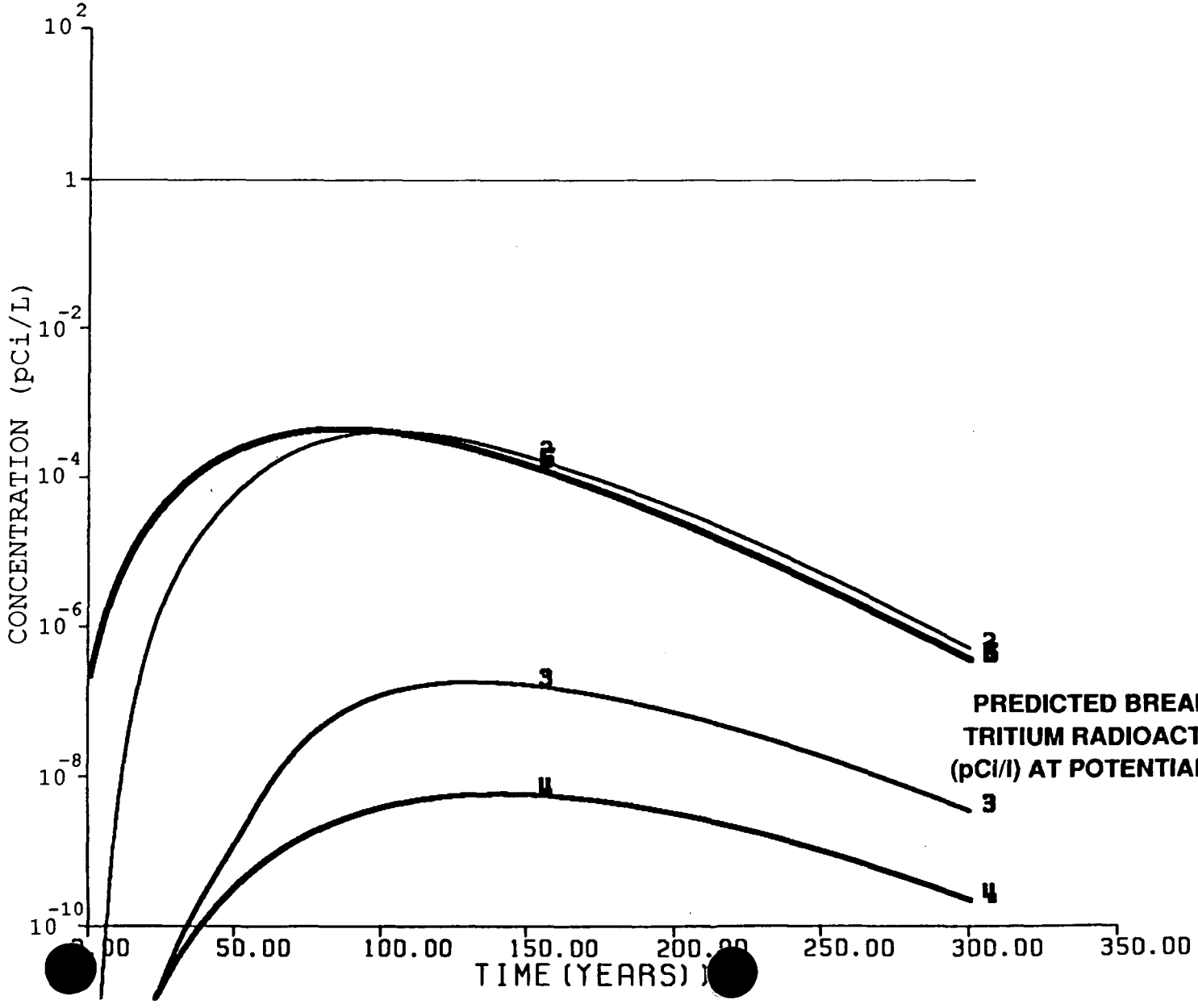

Figure F.9b

PREDICTED BREAKTHROUGH CURVES OF TRITIUM RADIOACTIVITY CONCENTRATION (pCi/l) AT POTENTIAL RECEPTORS, LAYER 2

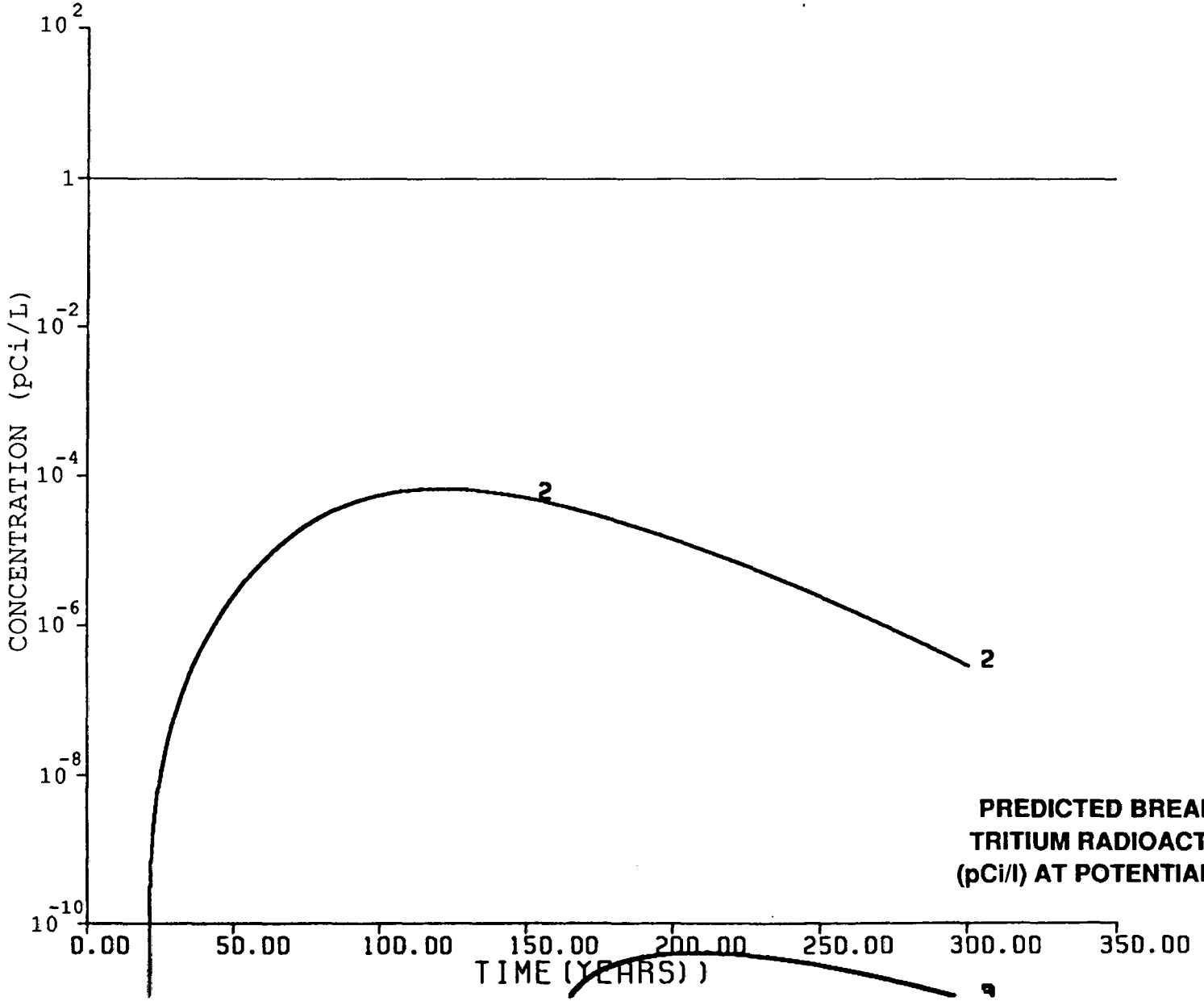

Figure F.9c

PREDICTED BREAKTHROUGH CURVES OF TRITIUM RADIOACTIVITY CONCENTRATION (pCi/l) AT POTENTIAL RECEPTORS, LAYER 3

APPENDIX G

SENSITIVITY ANALYSIS

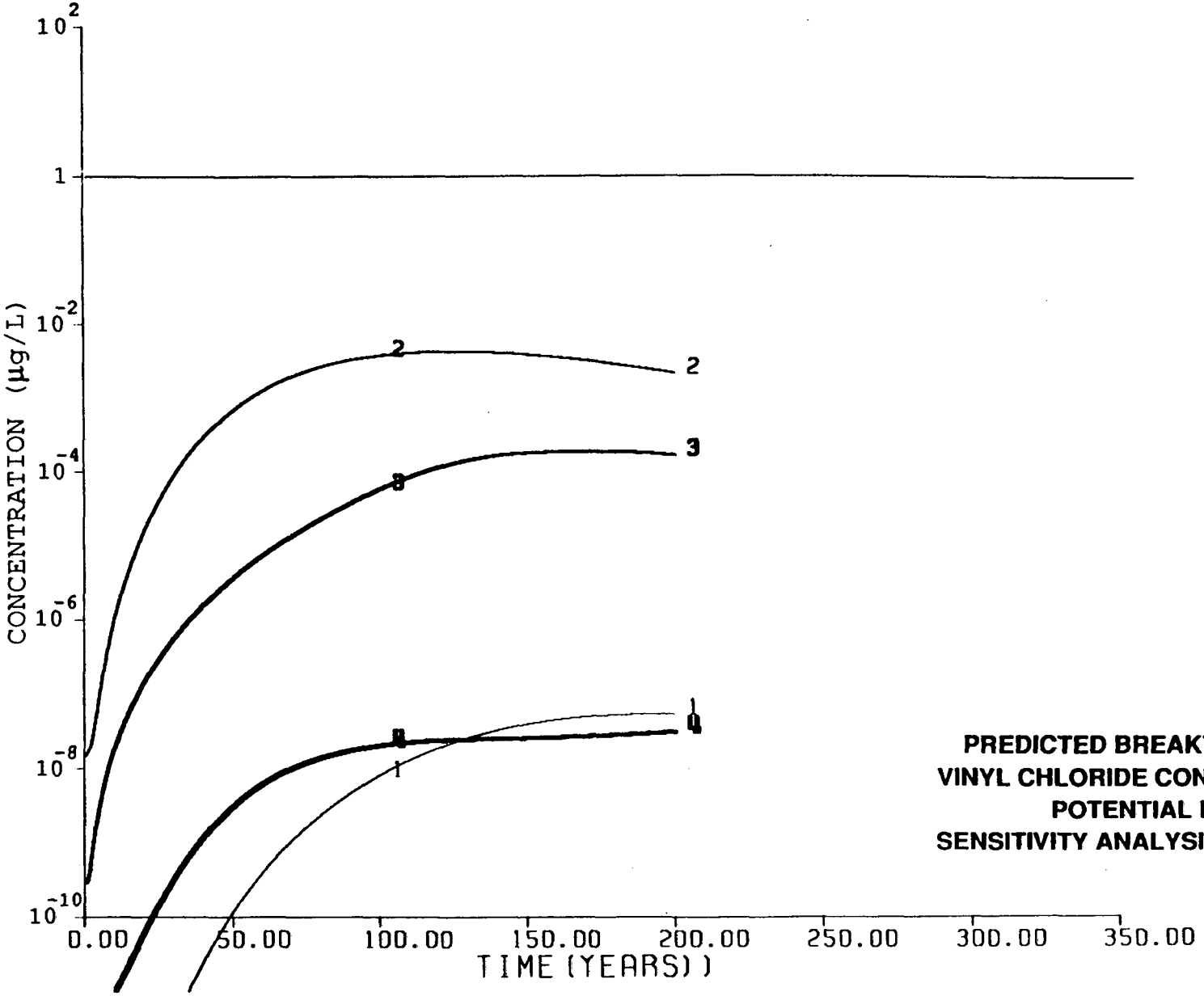

Figure G.1a

PREDICTED BREAKTHROUGH CURVES OF VINYL CHLORIDE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 1, SENSITIVITY ANALYSIS CASE 1, AL = 100 FT.

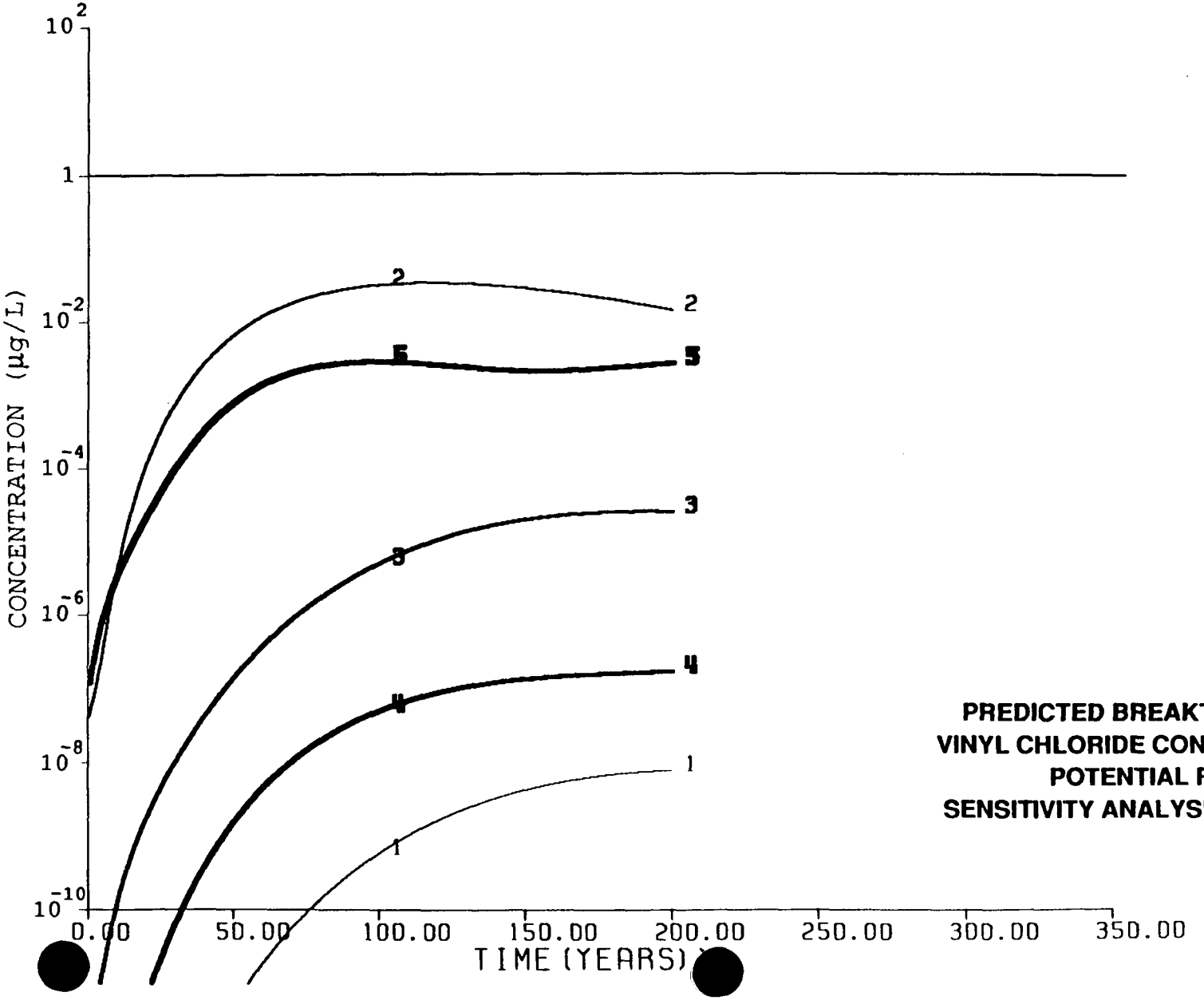

Figure G.1b

PREDICTED BREAKTHROUGH CURVES OF VINYL CHLORIDE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 2, SENSITIVITY ANALYSIS CASE1, AL = 100 FT.

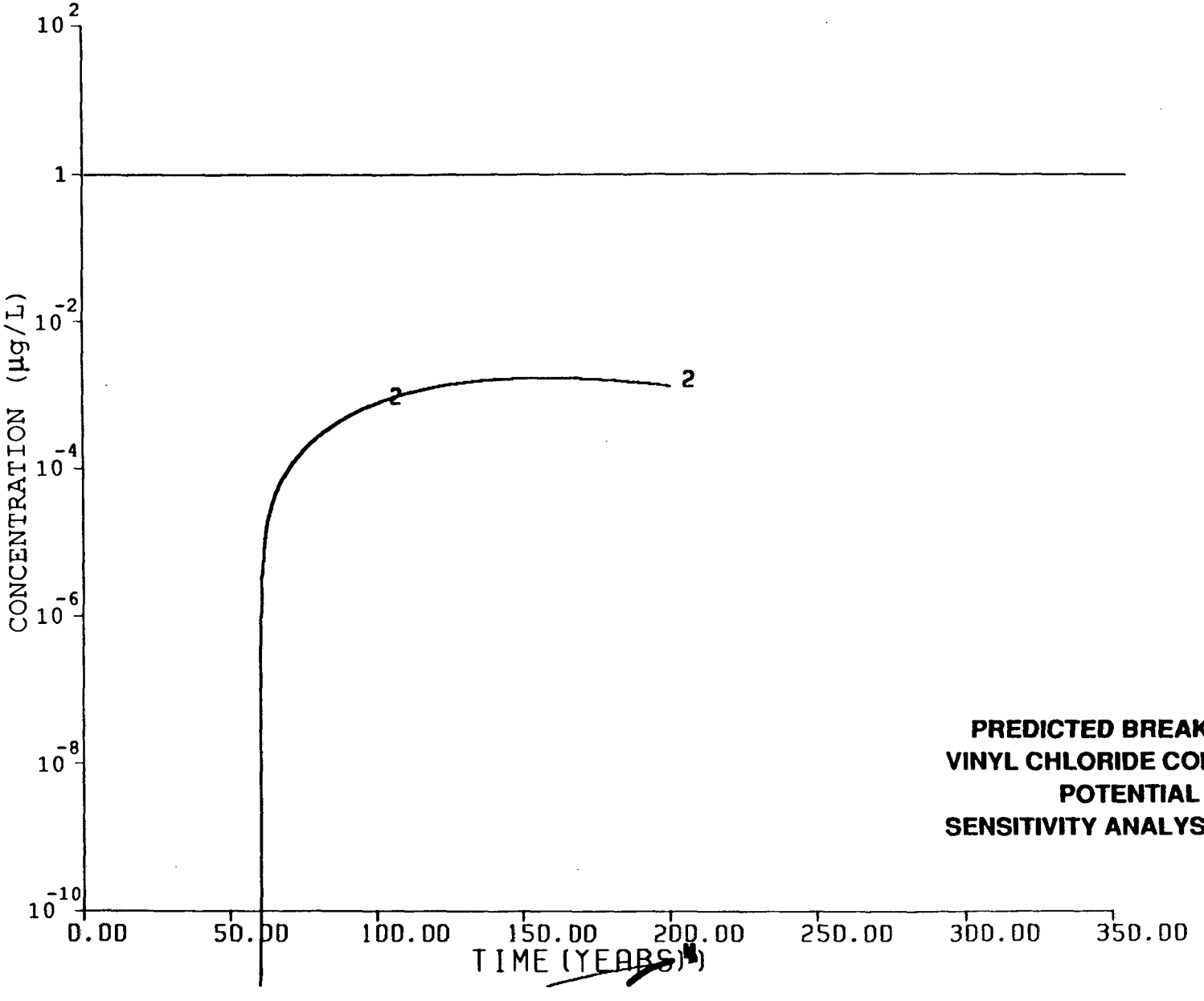

Figure G.1c

PREDICTED BREAKTHROUGH CURVES OF VINYL CHLORIDE CONCENTRATION (µg/l) AT POTENTIAL RECEPTORS, LAYER 2, SENSITIVITY ANALYSIS CASE 1, AL = 100 FT.

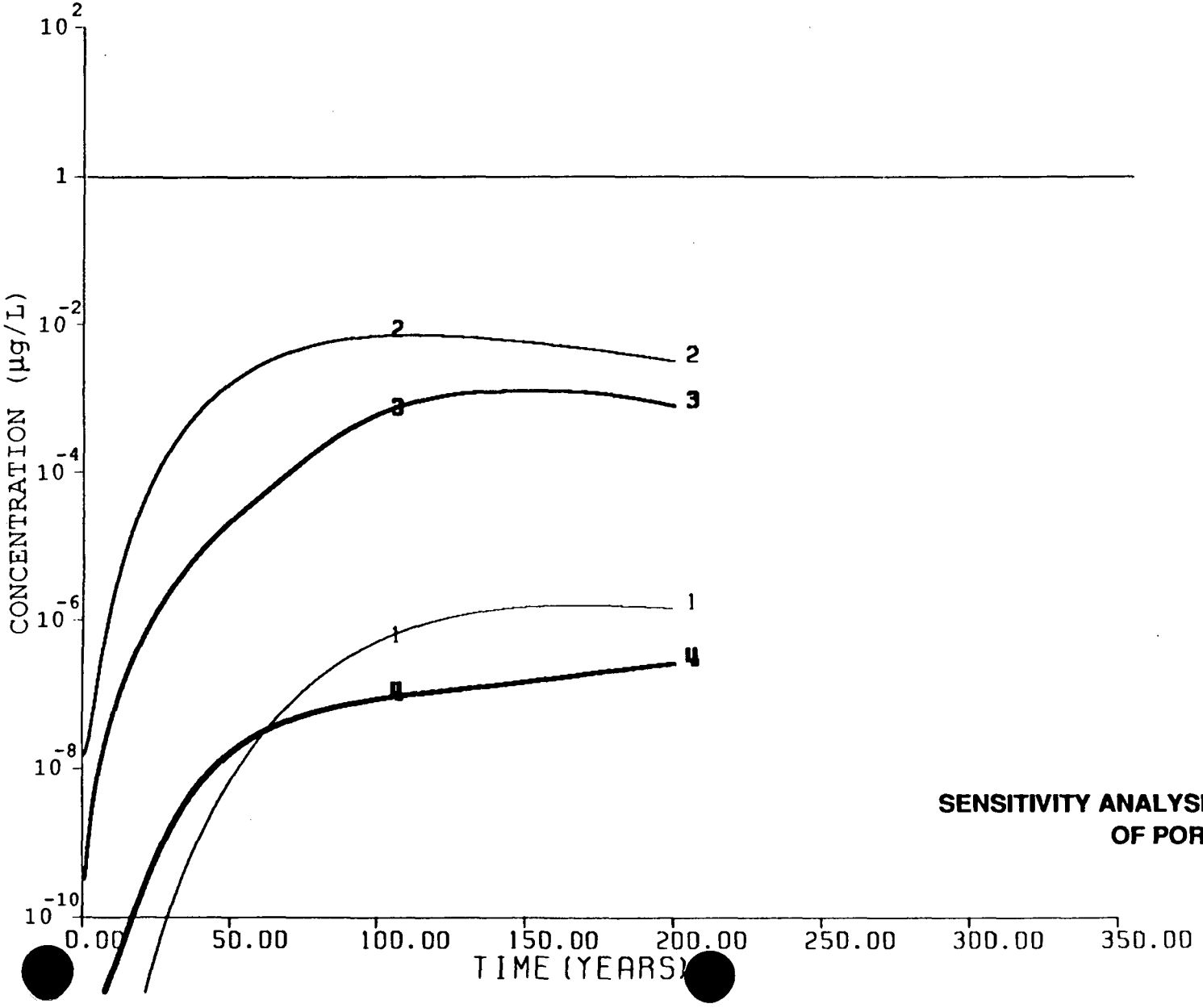

Figure G.2a

SENSITIVITY ANALYSIS CASE 2, REDUCTION OF POROSITY BY 50 PERCENT

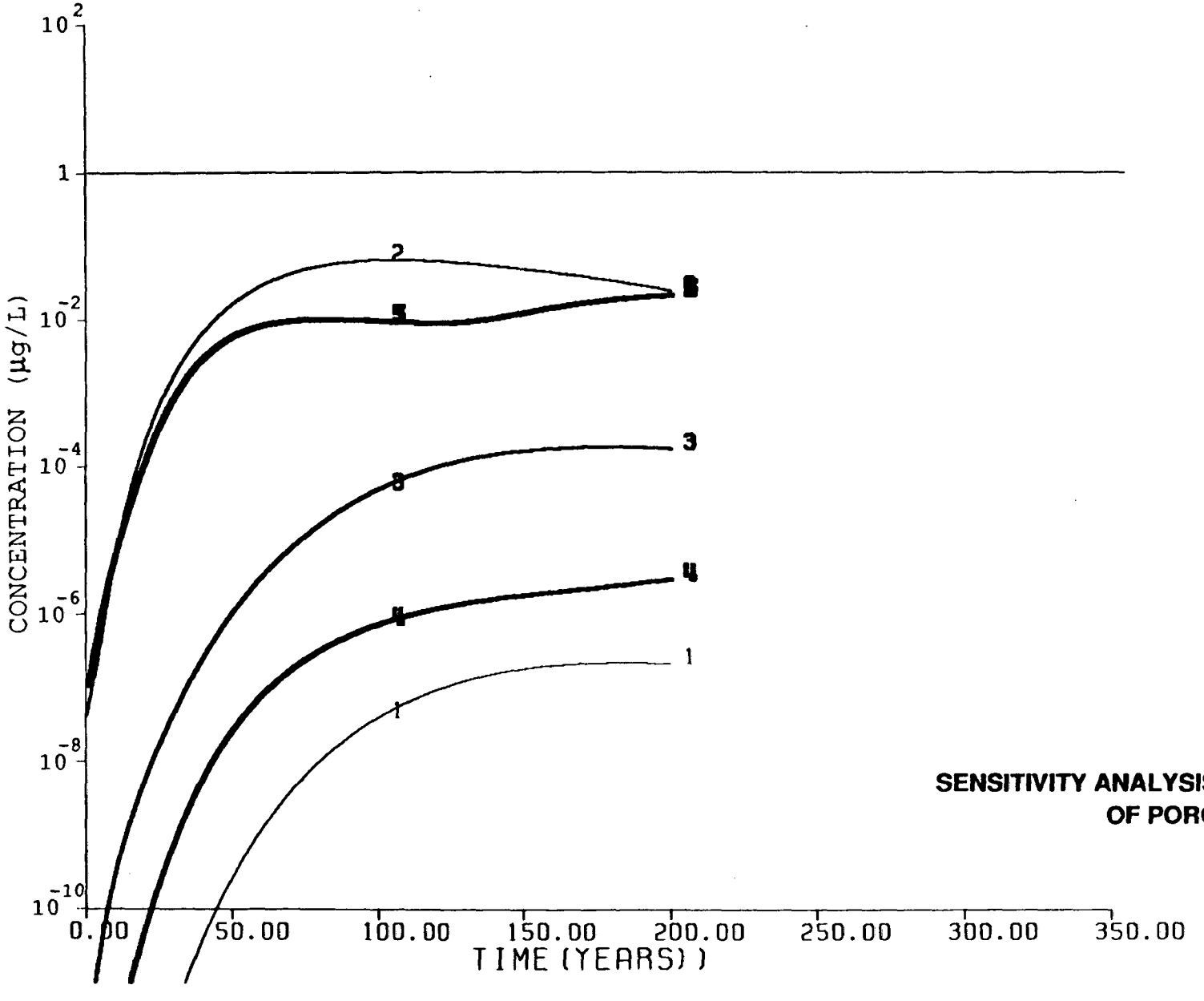

Figure G.2b

SENSITIVITY ANALYSIS CASE 2, REDUCTION OF POROSITY BY 50 PERCENT

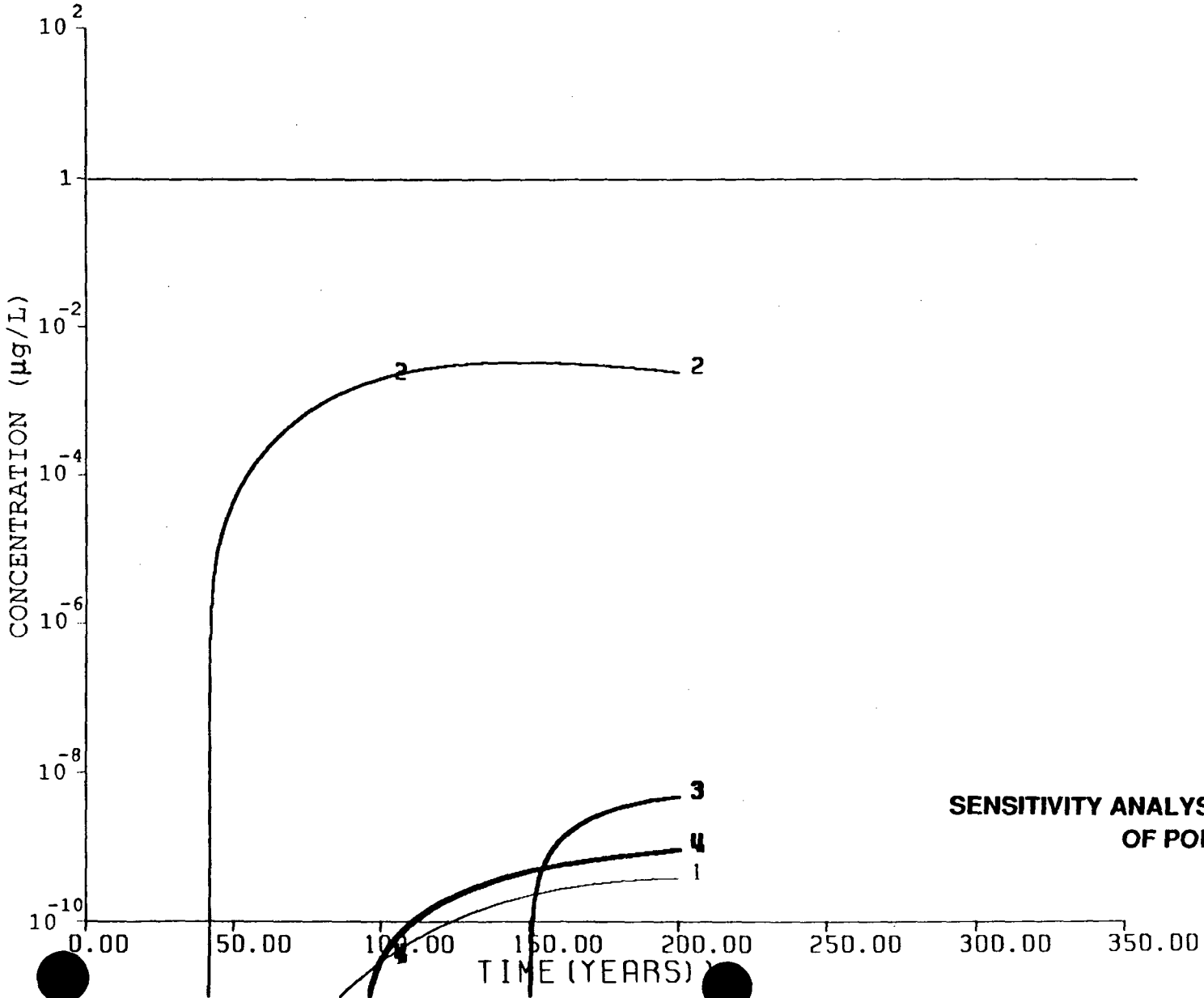

Figure G.2c

SENSITIVITY ANALYSIS CASE 2, REDUCTION OF POROSITY BY 50 PERCENT

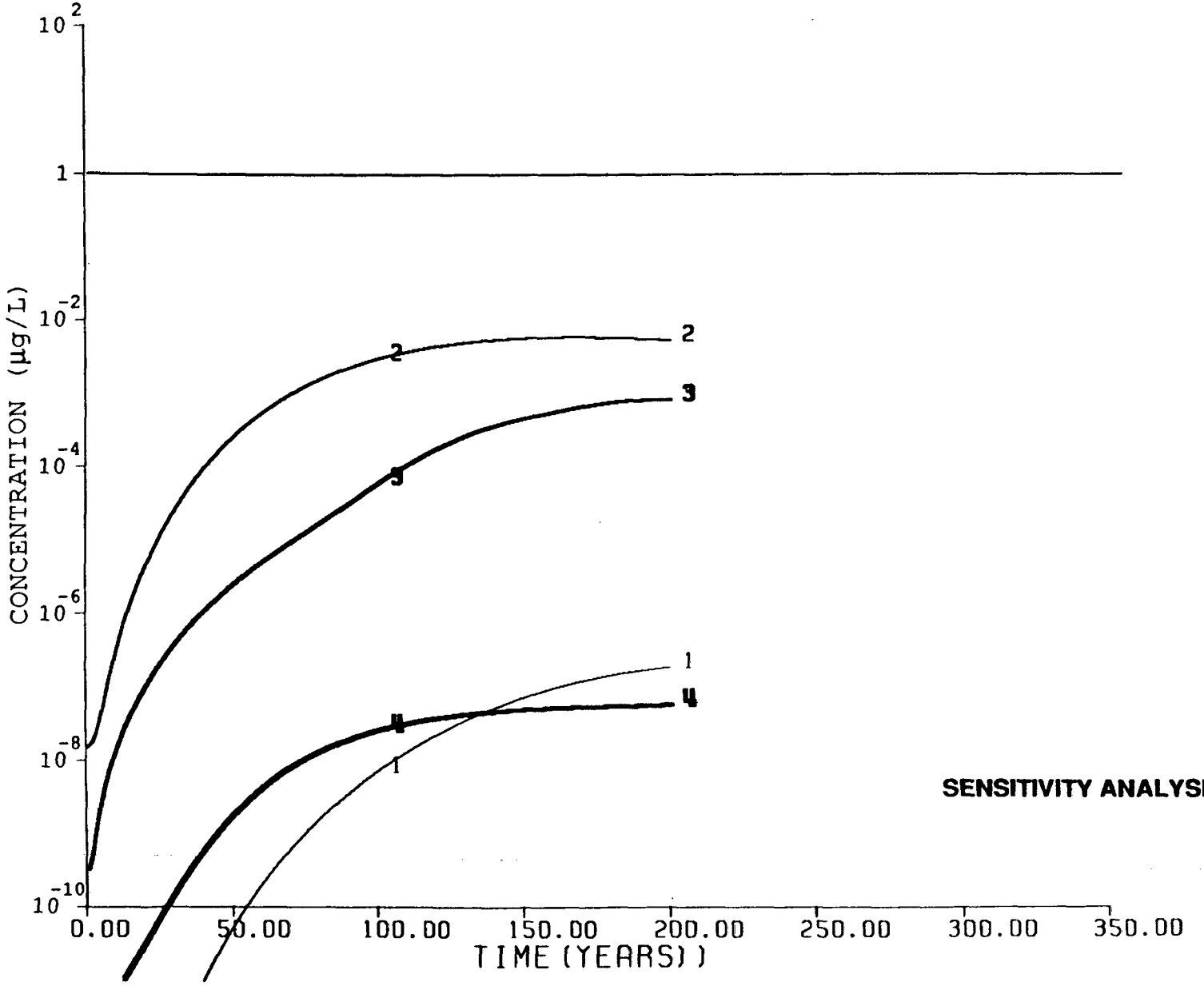

Figure G.3a

SENSITIVITY ANALYSIS CASE 3, WITH HALF LIFE OF 22 YEARS

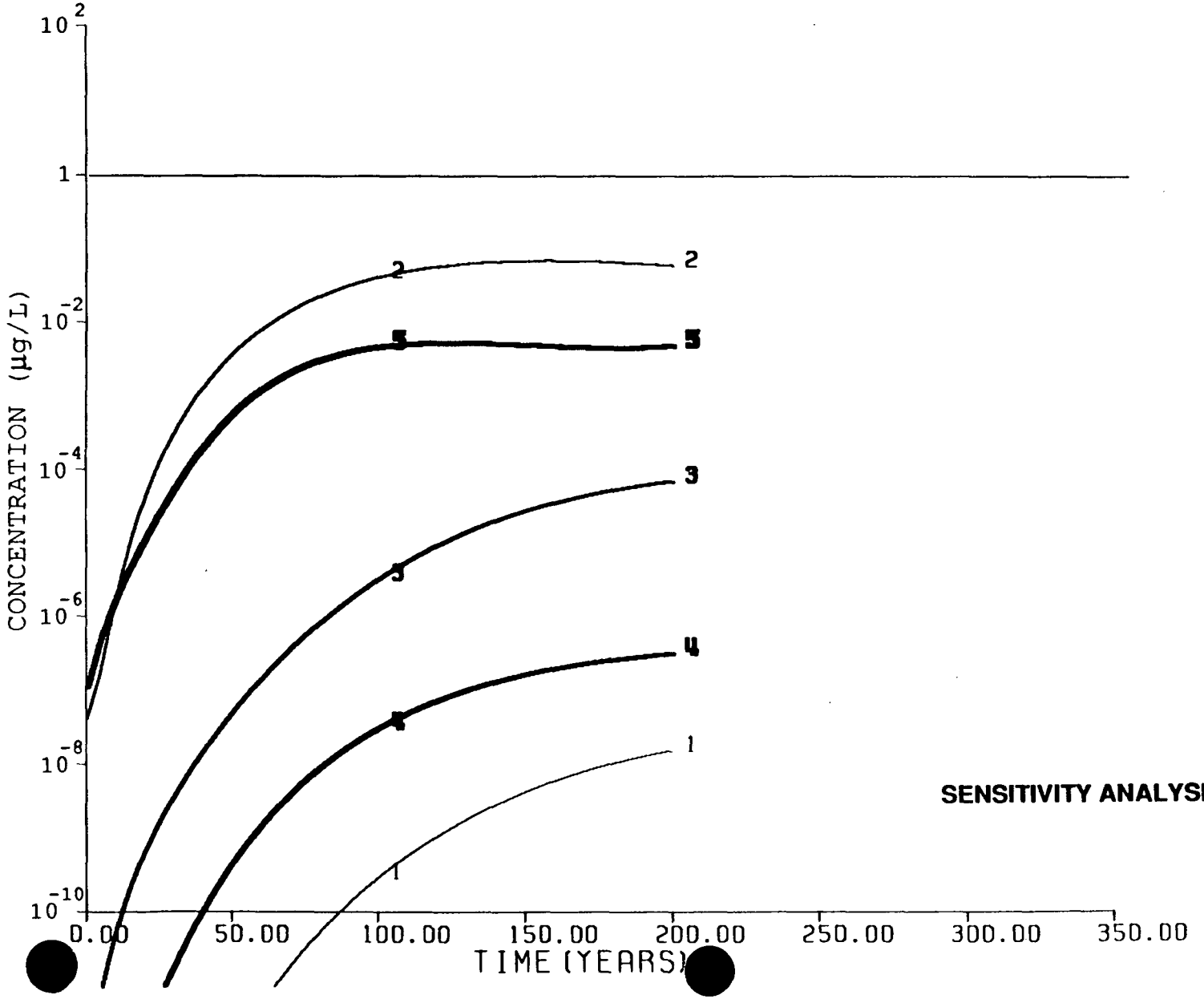

Figure G.3b

SENSITIVITY ANALYSIS CASE 3, WITH HALF LIFE OF 22 YEARS

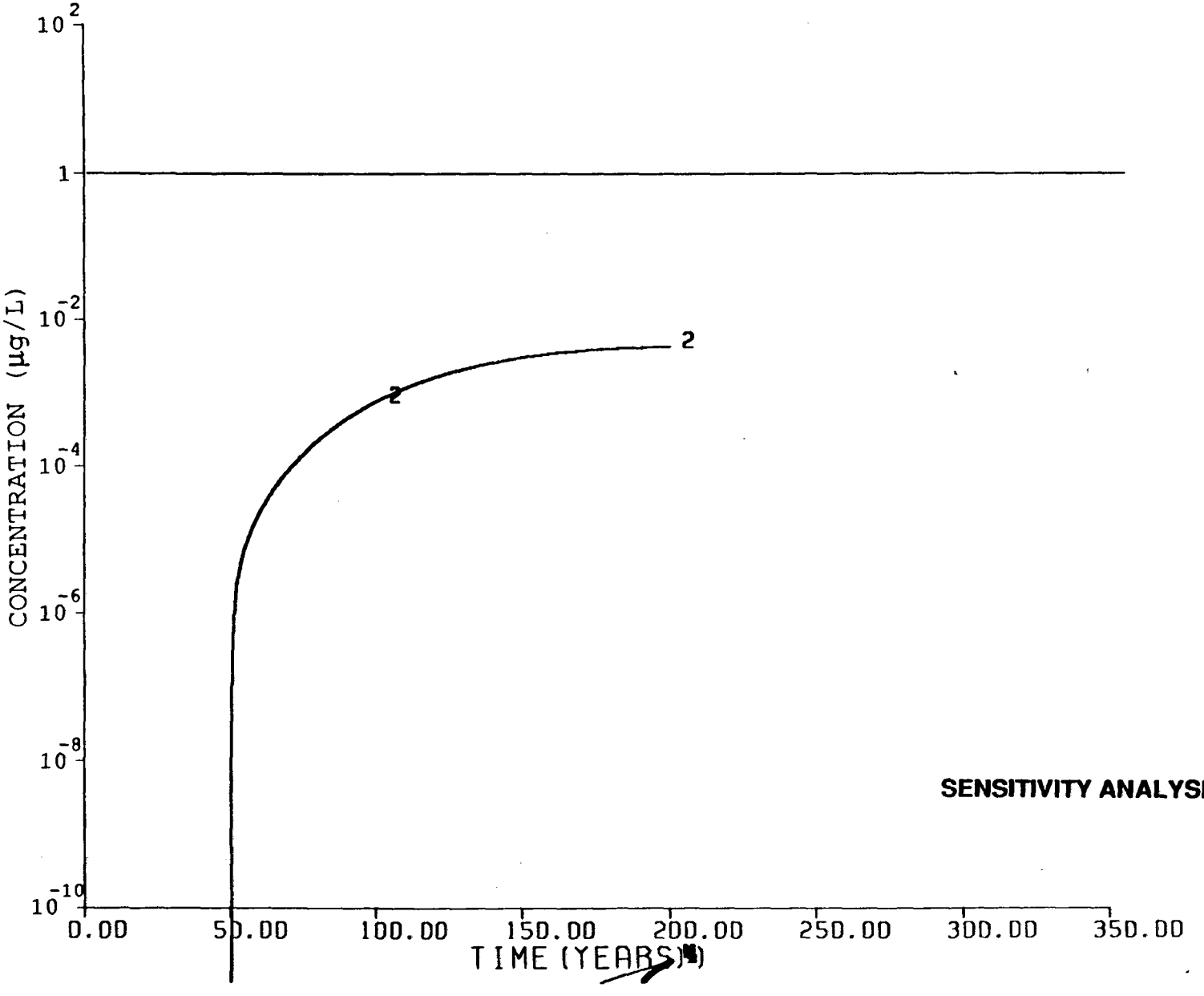

Figure G.3c

SENSITIVITY ANALYSIS CASE 3, WITH HALF LIFE OF 22 YEARS

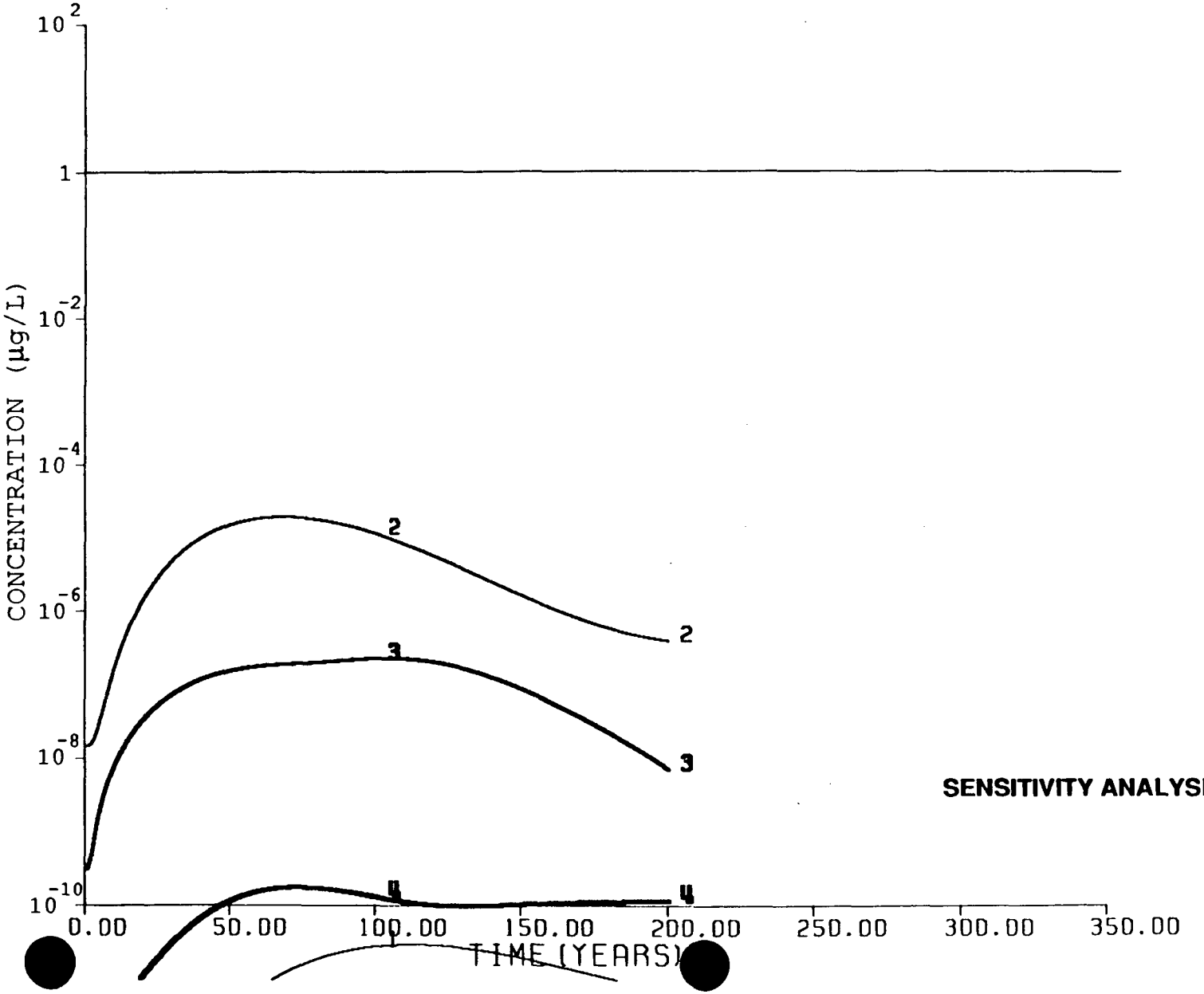

Figure G.4a

SENSITIVITY ANALYSIS CASE 4, WITH HALF LIFE OF 22 YEARS

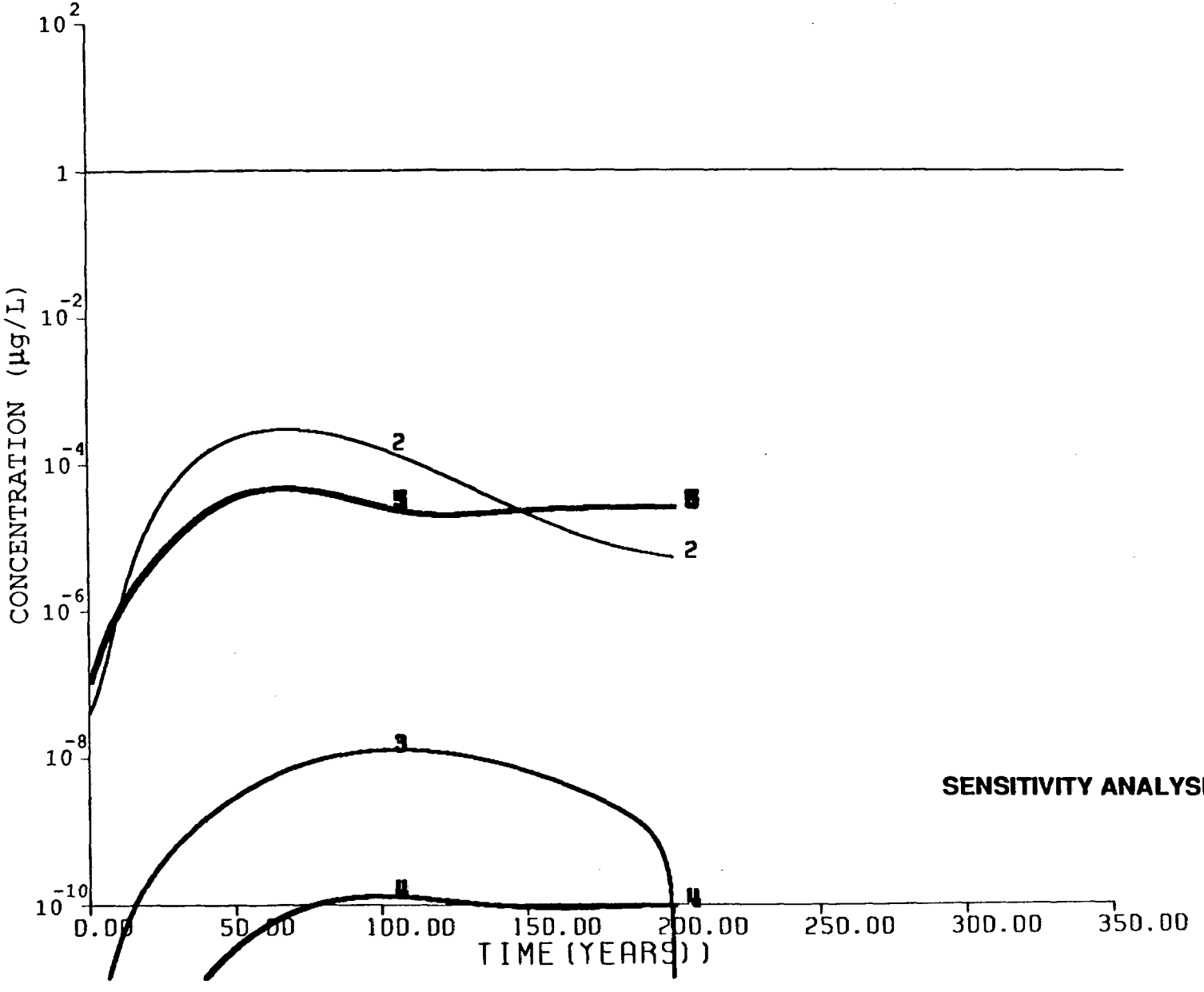

Figure G.4b

SENSITIVITY ANALYSIS CASE 4, WITH HALF LIFE OF 22 YEARS

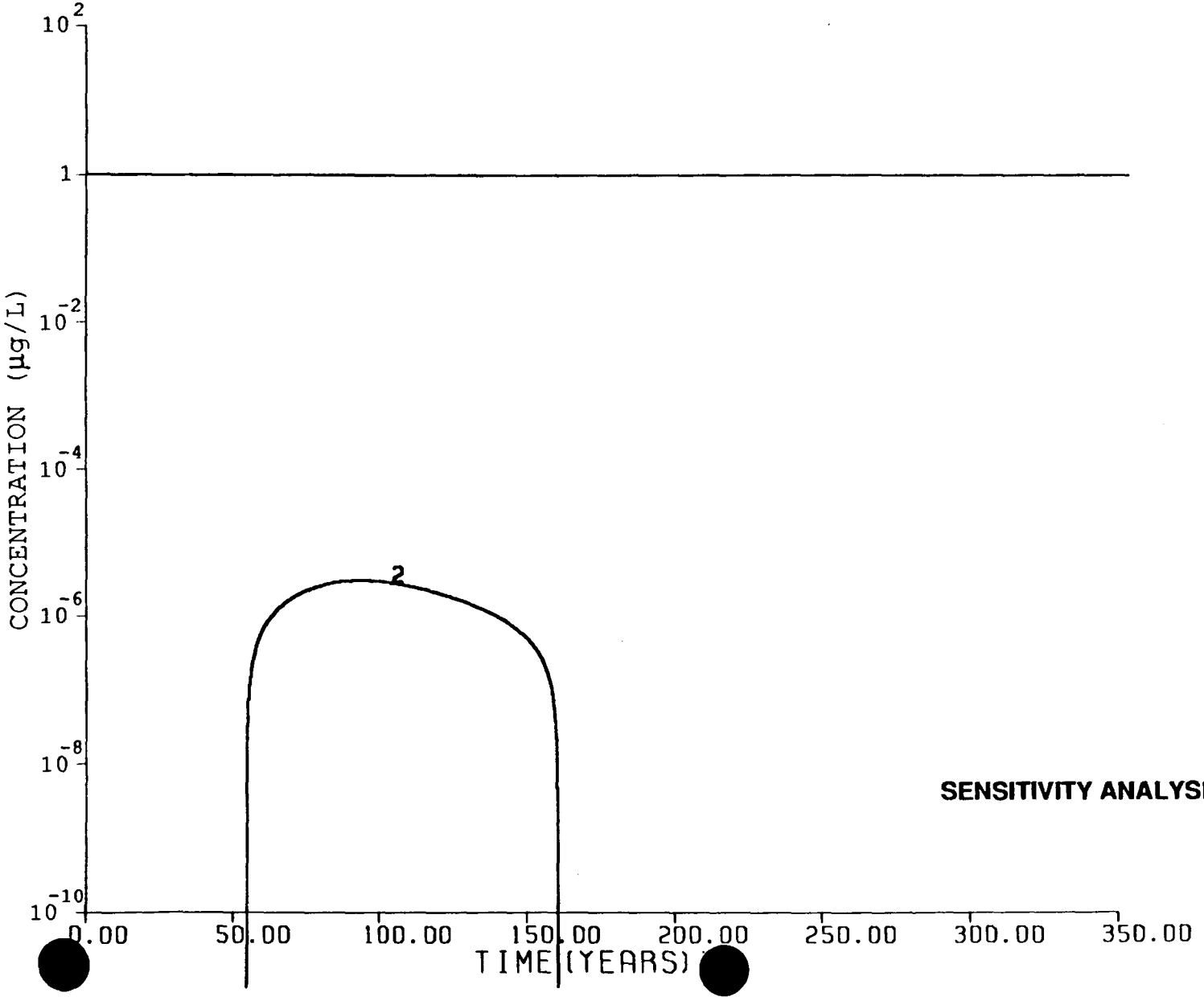

Figure G.4c

SENSITIVITY ANALYSIS CASE 4, WITH HALF LIFE OF 22 YEARS

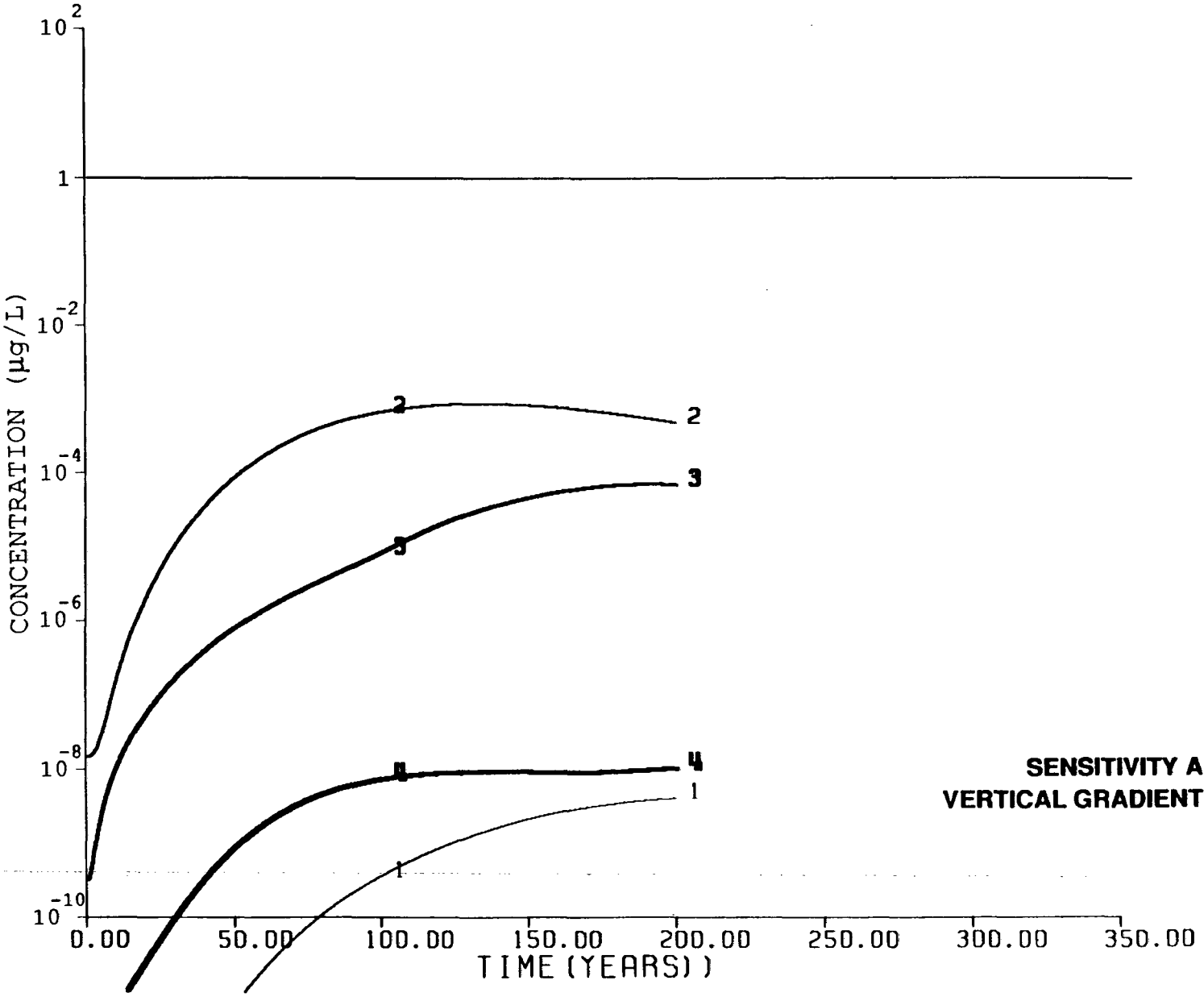

Figure G.5a

SENSITIVITY ANALYSIS CASE 5, WITH VERTICAL GRADIENT INTRODUCED ON SIDE BOUNDARIES

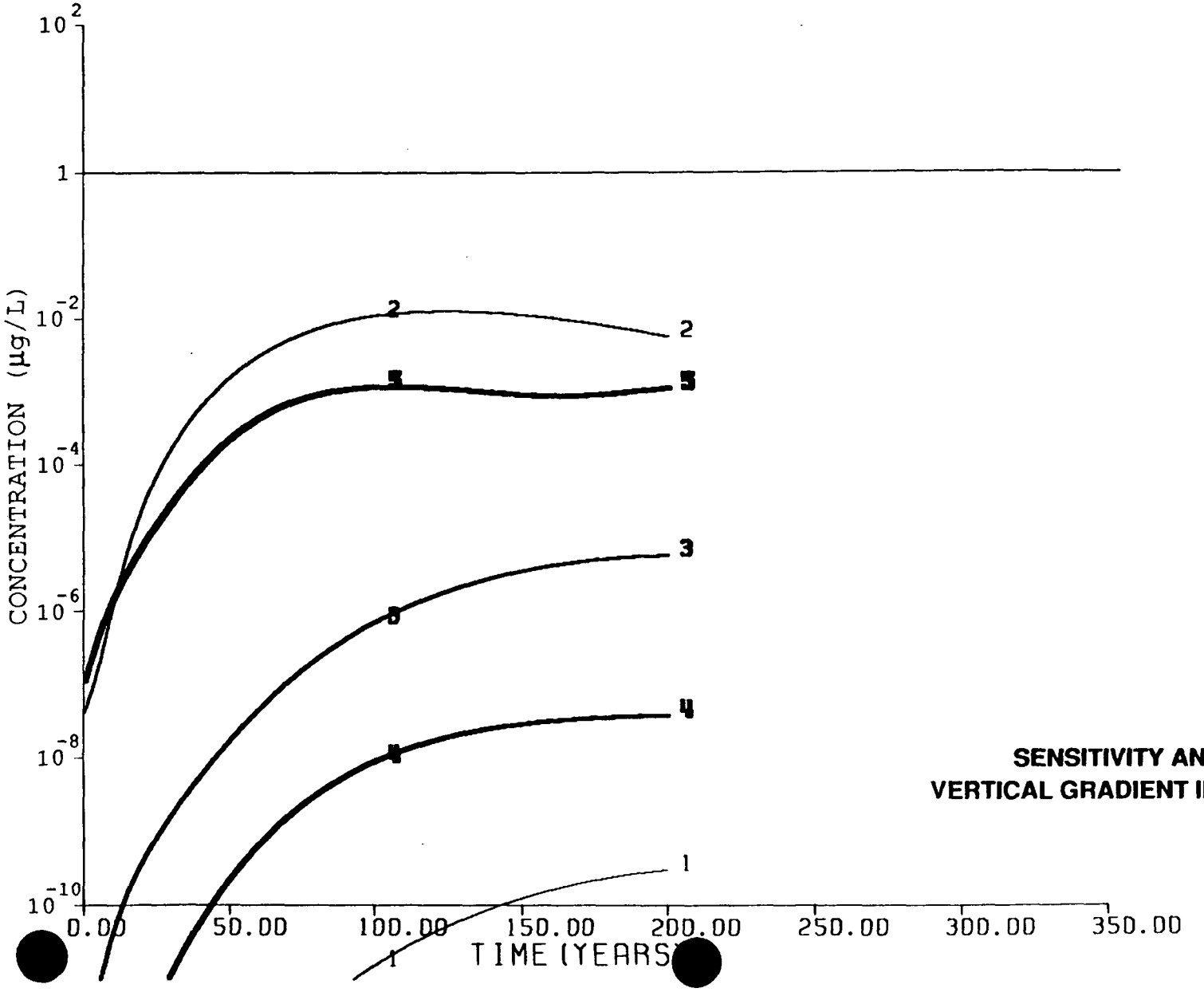

Figure G.5b

SENSITIVITY ANALYSIS CASE 5, WITH VERTICAL GRADIENT INTRODUCED ON SIDE BOUNDARIES

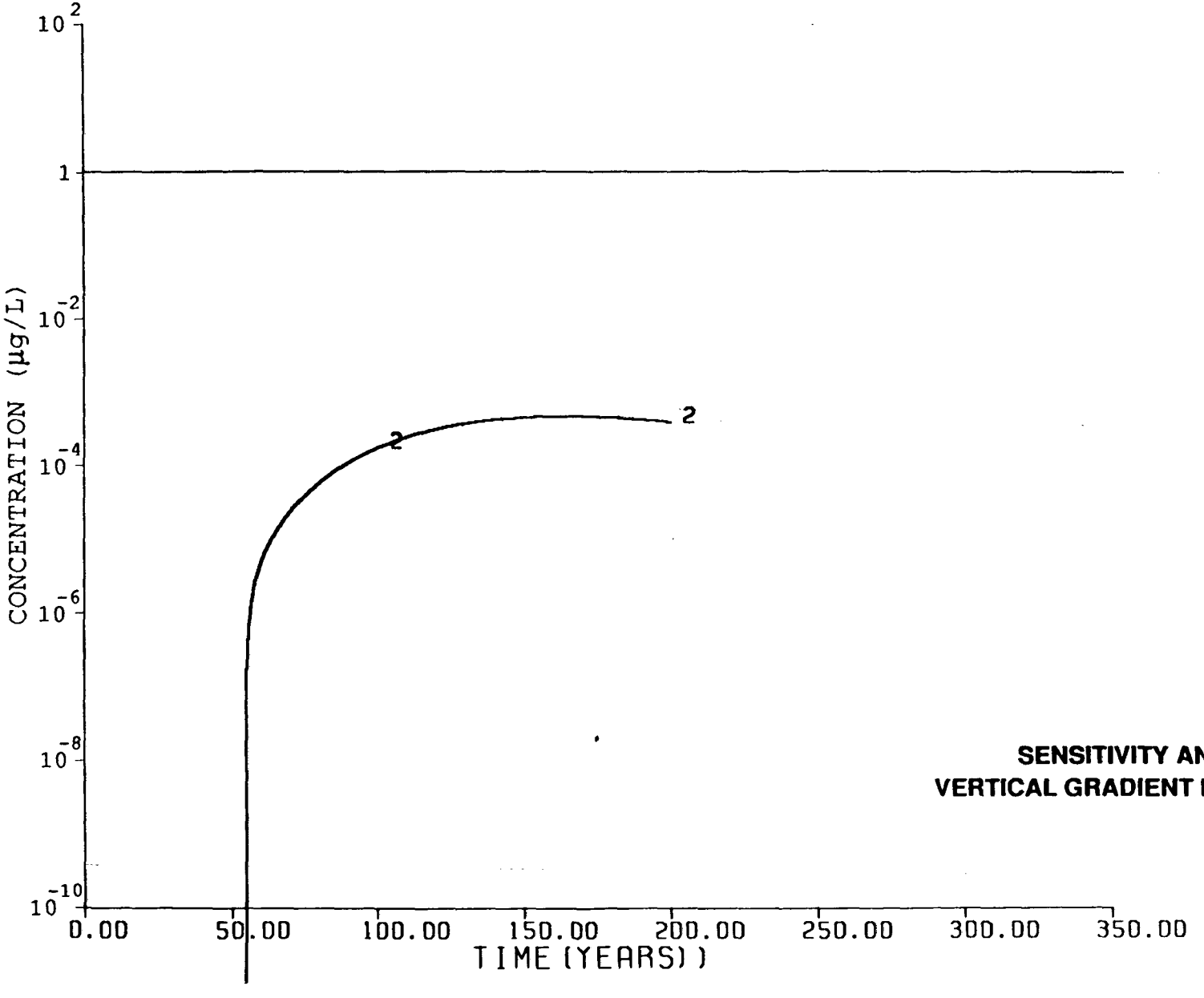

Figure G.5c
SENSITIVITY ANALYSIS CASE 5, WITH VERTICAL GRADIENT INTRODUCED ON SIDE BOUNDARIES

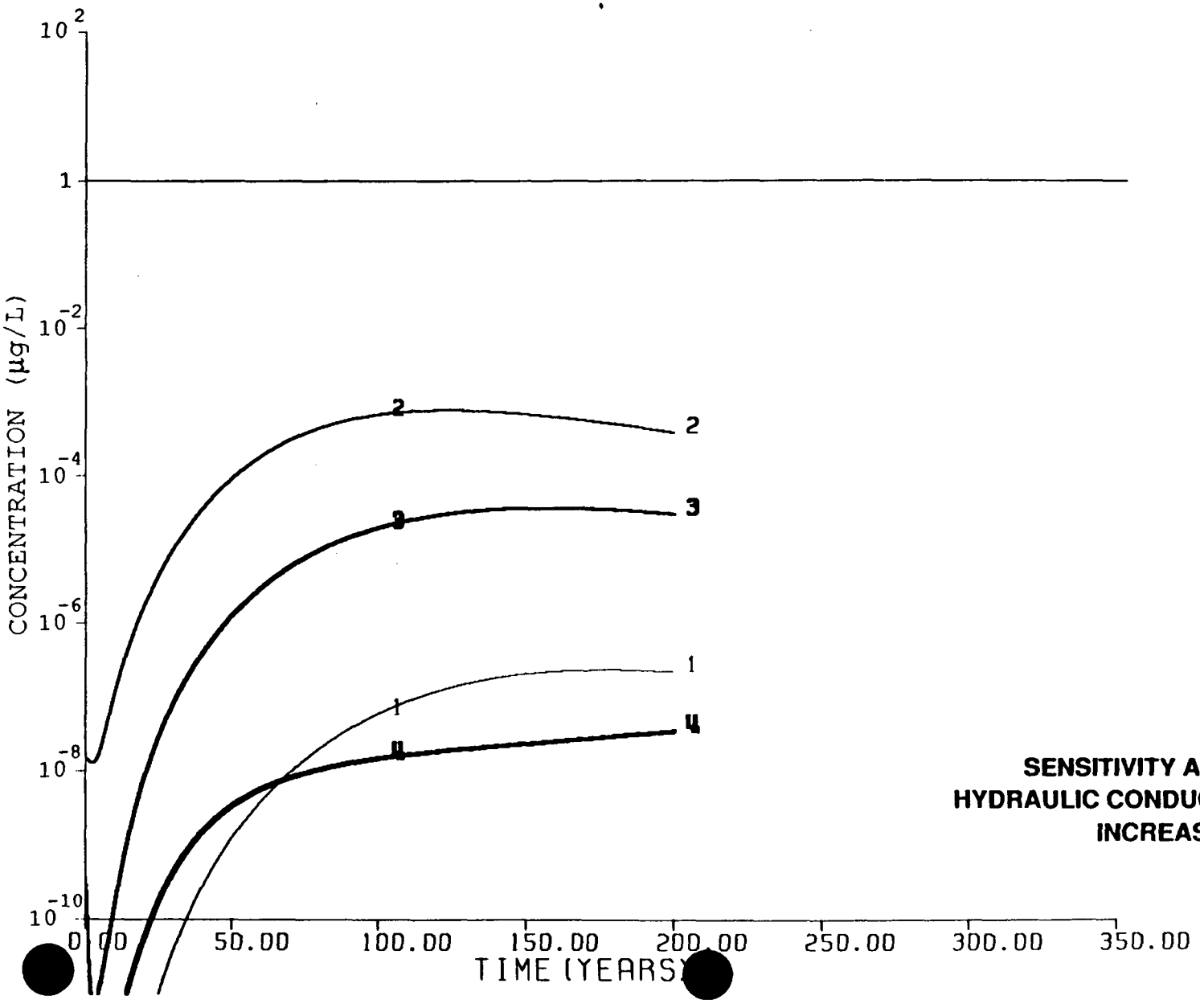

Figure G.6a

SENSITIVITY ANALYSIS CASE 6, WITH HYDRAULIC CONDUCTIVITY IN Qo AND Qus INCREASED BY A FACTOR OF 2

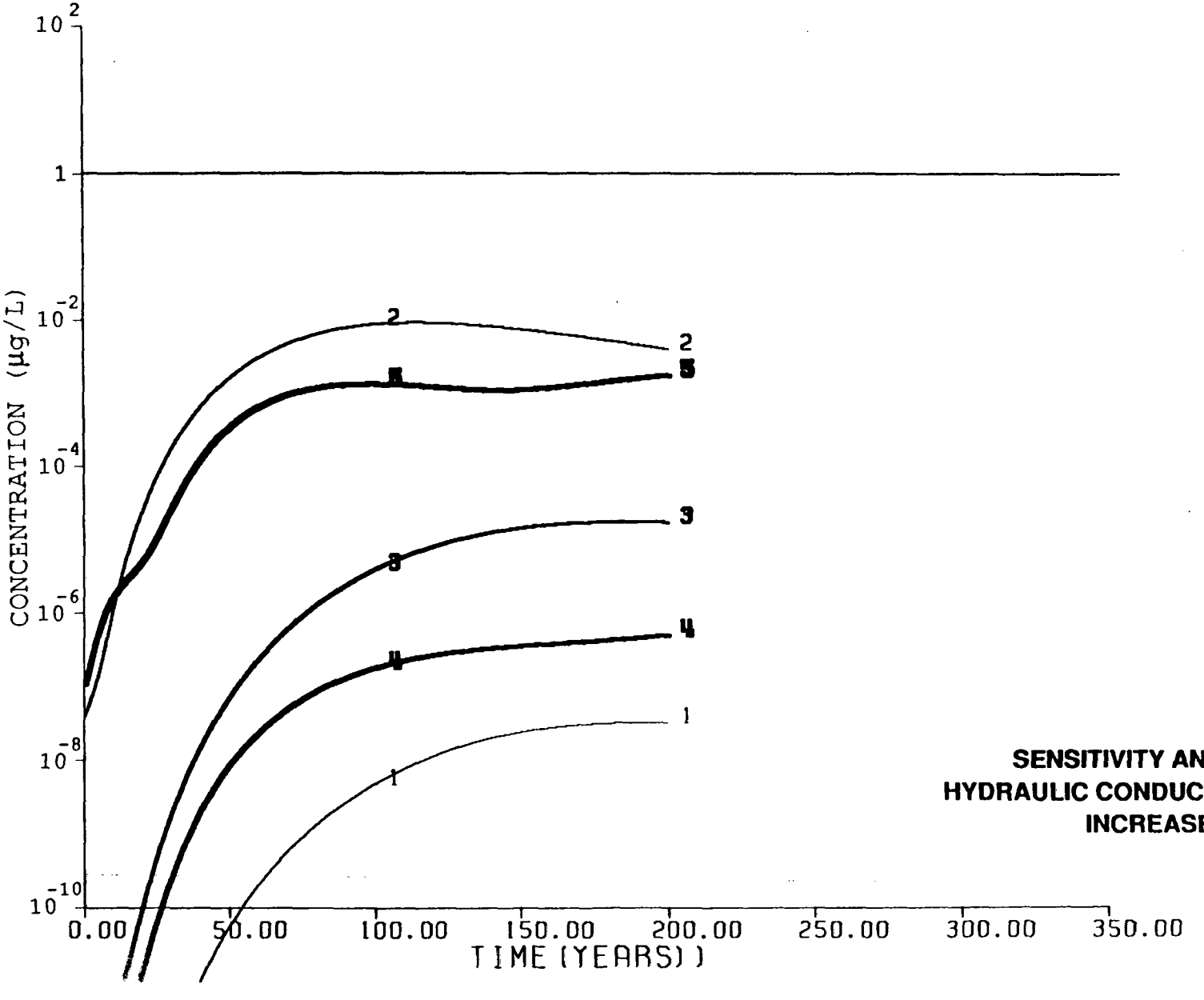

Figure G.6b

SENSITIVITY ANALYSIS CASE 6, WITH HYDRAULIC CONDUCTIVITY IN Qo AND Qus INCREASED BY A FACTOR OF 2

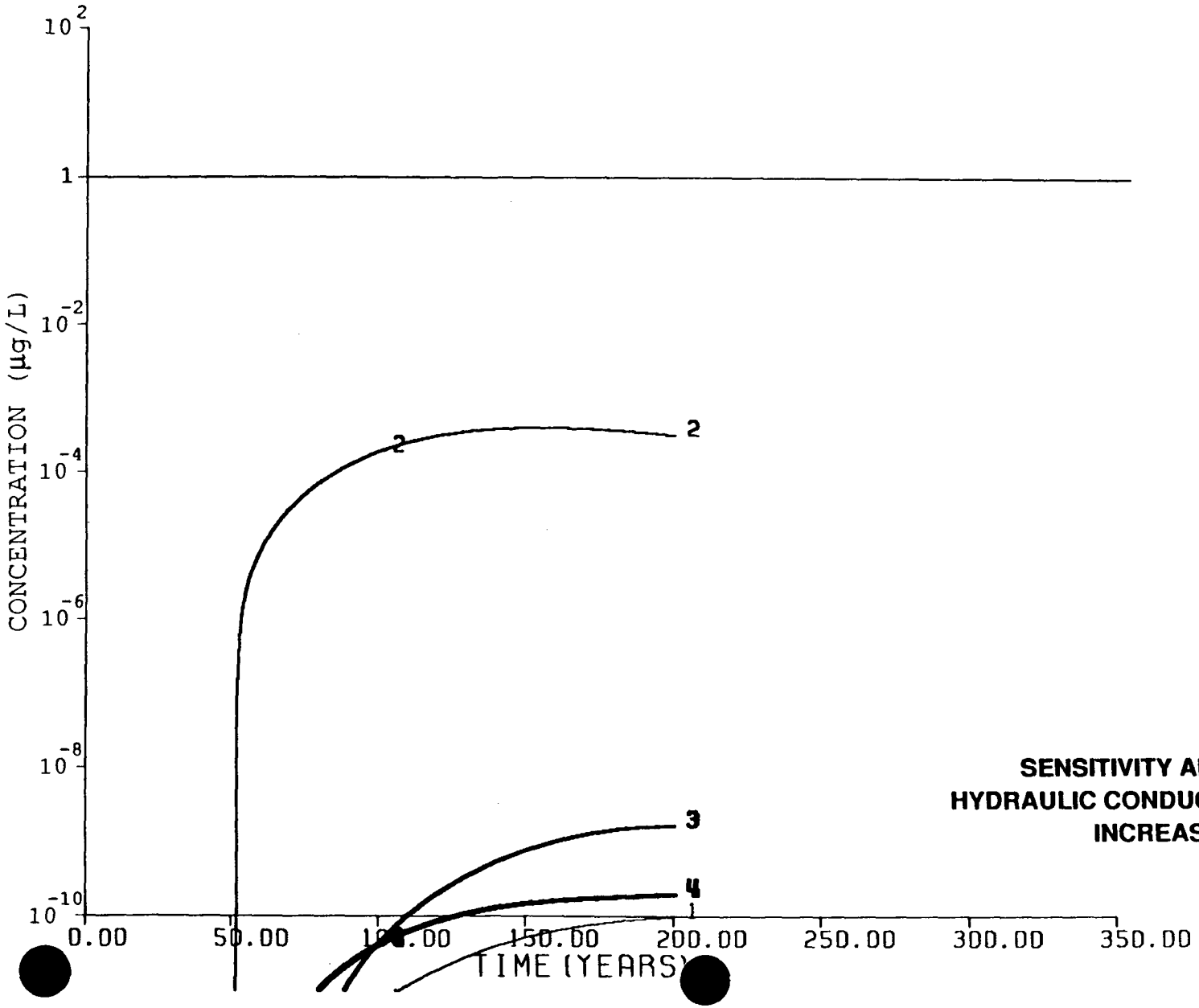

Figure G.6c

SENSITIVITY ANALYSIS CASE 6, WITH HYDRAULIC CONDUCTIVITY IN Qo AND Qus INCREASED BY A FACTOR OF 2

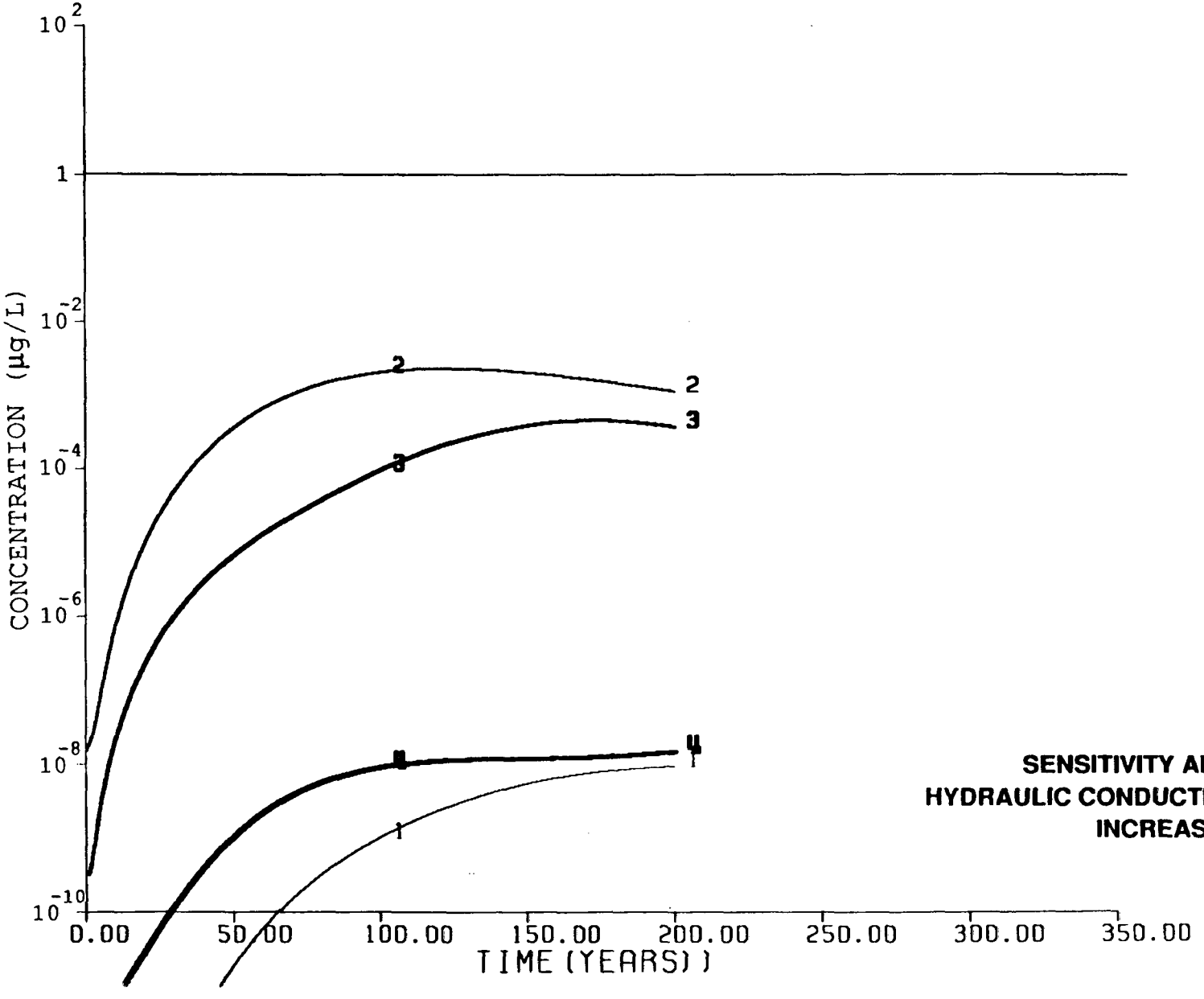

Figure G.7a

SENSITIVITY ANALYSIS CASE 7, WITH HYDRAULIC CONDUCTIVITY IN Tmm AND Tvm INCREASED BY A FACTOR OF 2

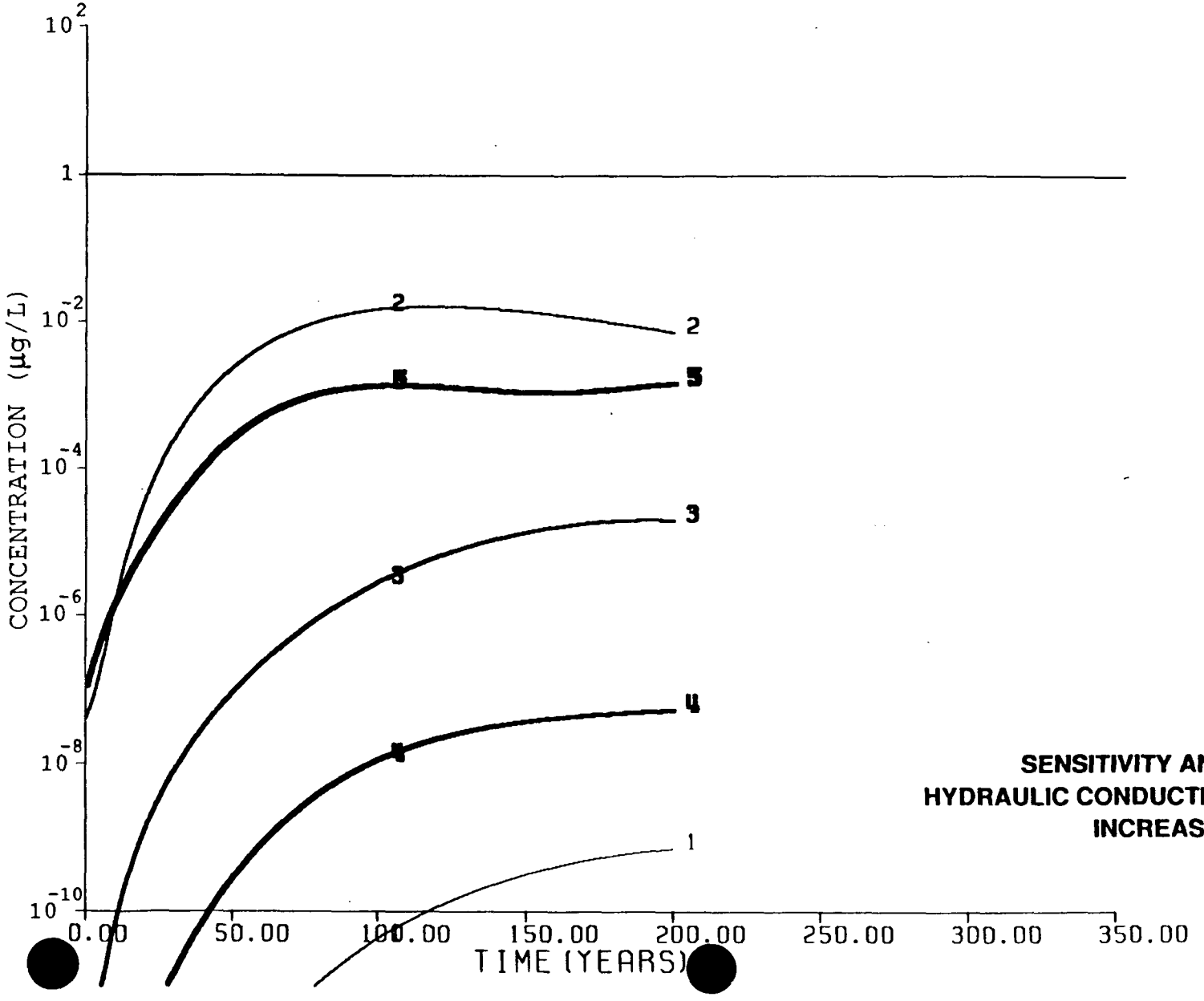

Figure G.7b

SENSITIVITY ANALYSIS CASE 7, WITH HYDRAULIC CONDUCTIVITY IN Tmm AND Tvm INCREASED BY A FACTOR OF 2

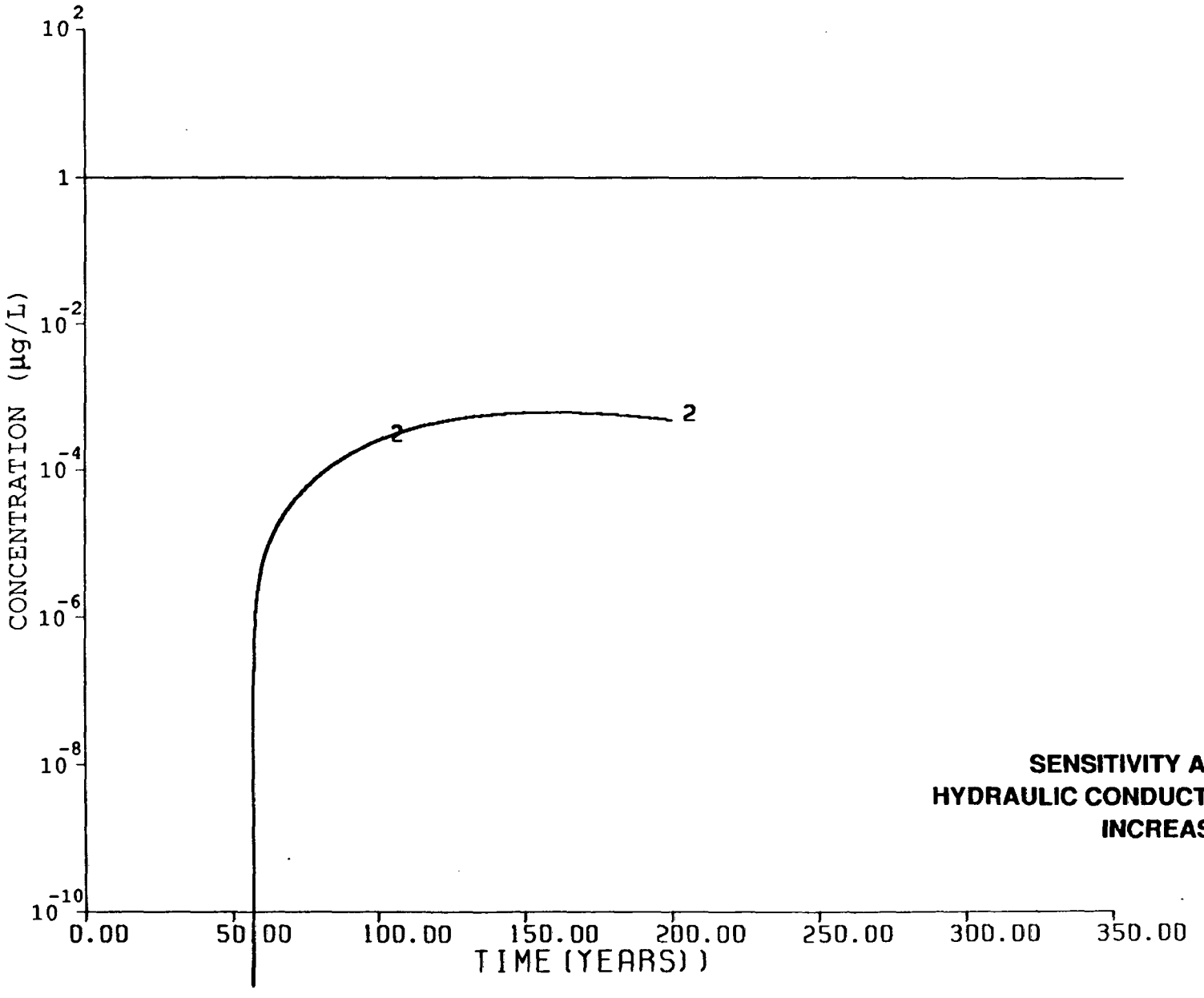

Figure G.7c

SENSITIVITY ANALYSIS CASE 7, WITH HYDRAULIC CONDUCTIVITY IN Tmm AND Tvm INCREASED BY A FACTOR OF 2

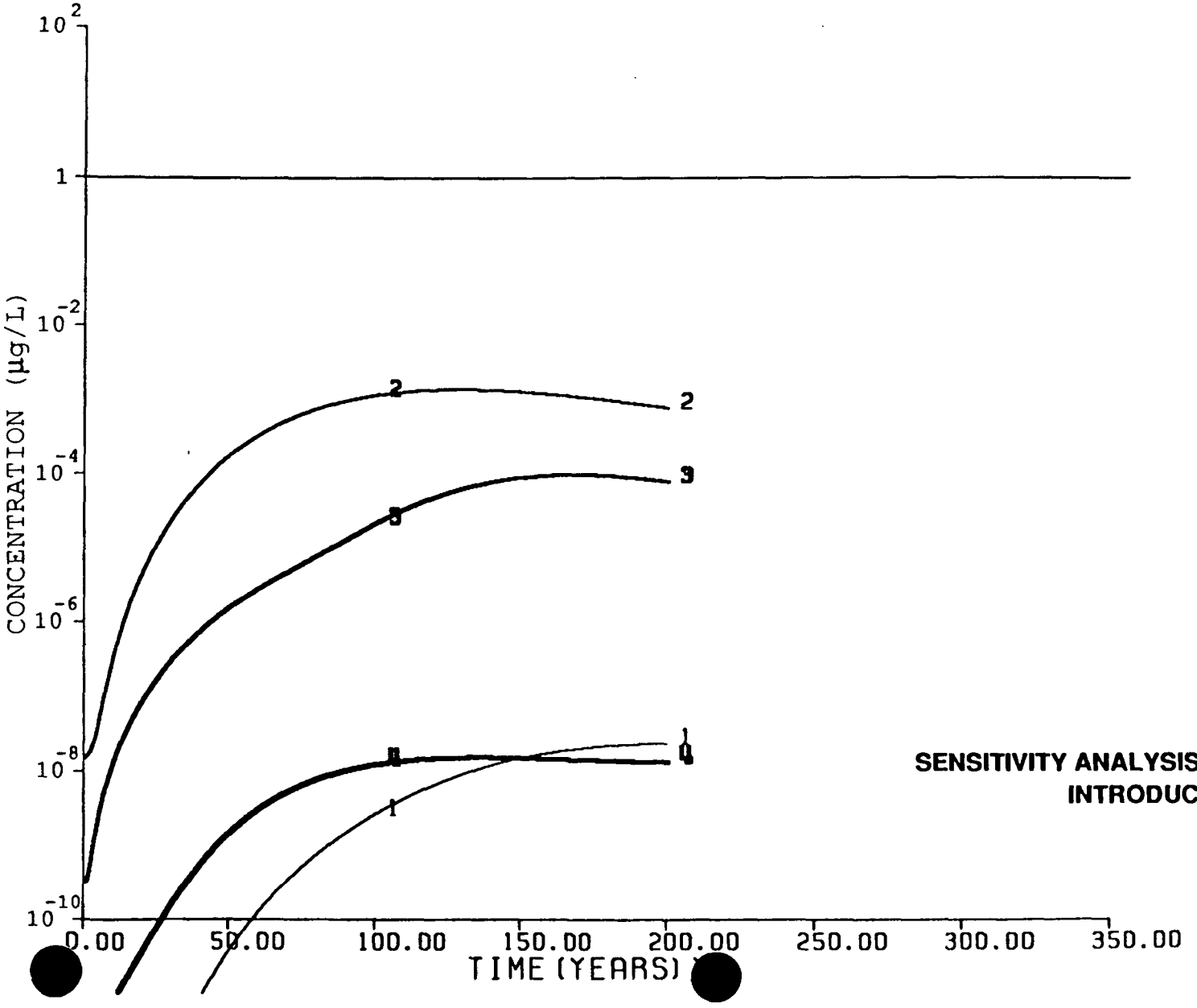

Figure G.8a

SENSITIVITY ANALYSIS CASE 8, WITH ERRORS INTRODUCED IN CONSTANT HEAD BOUNDARIES

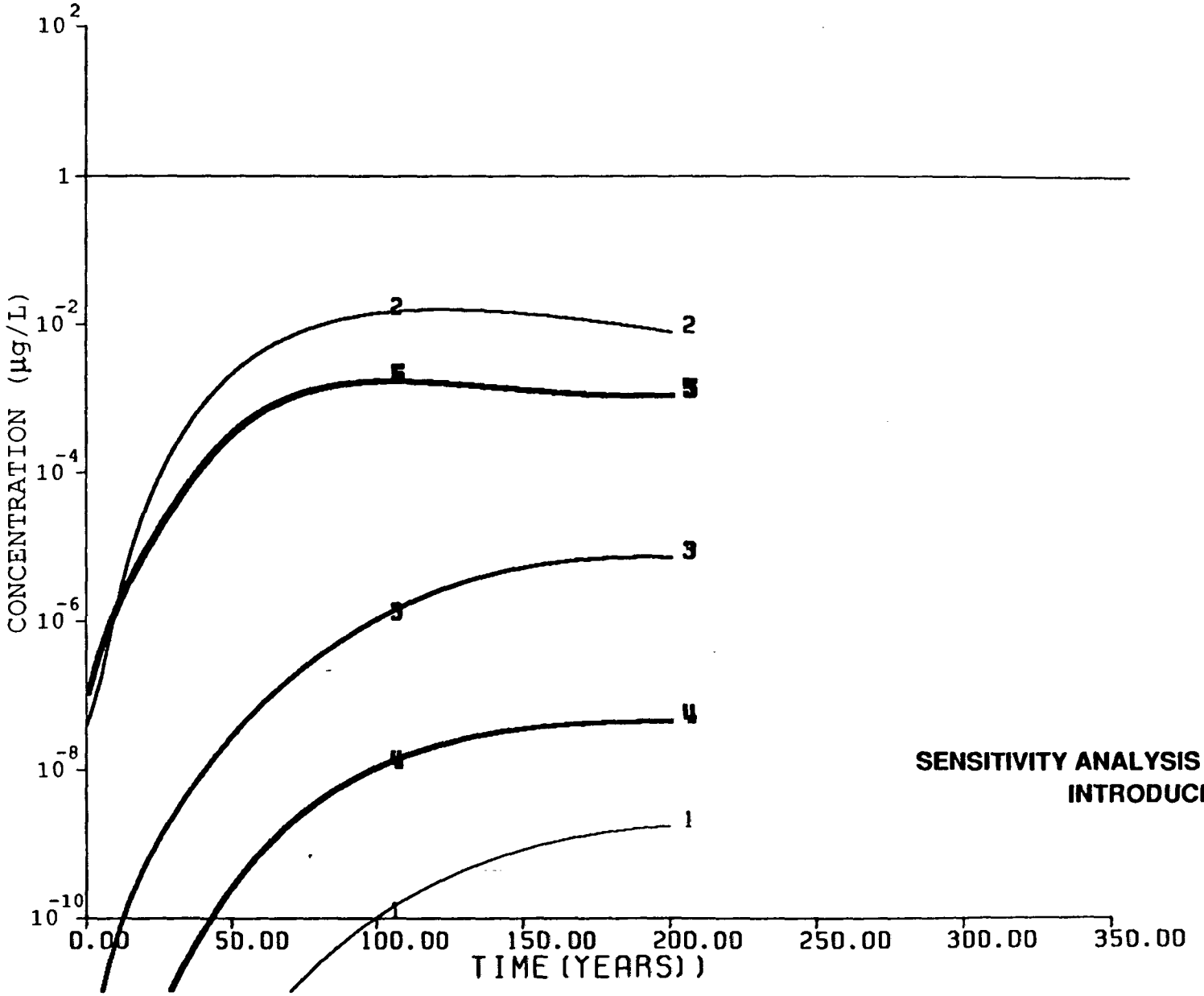

Figure G.8b

SENSITIVITY ANALYSIS CASE 8, WITH ERRORS INTRODUCED IN CONSTANT HEAD BOUNDARIES

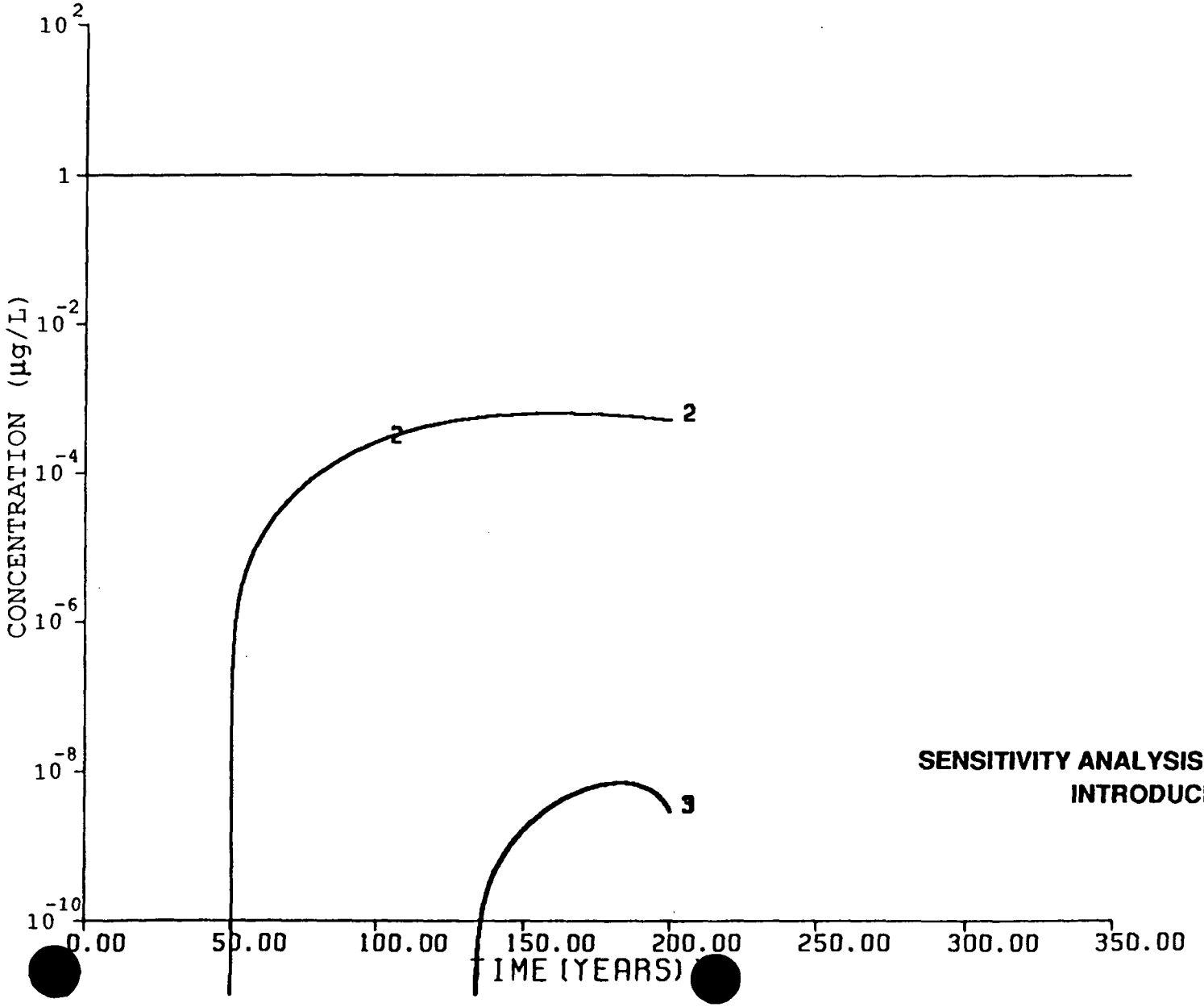

Figure G.8c

SENSITIVITY ANALYSIS CASE 8, WITH ERRORS INTRODUCED IN CONSTANT HEAD BOUNDARIES

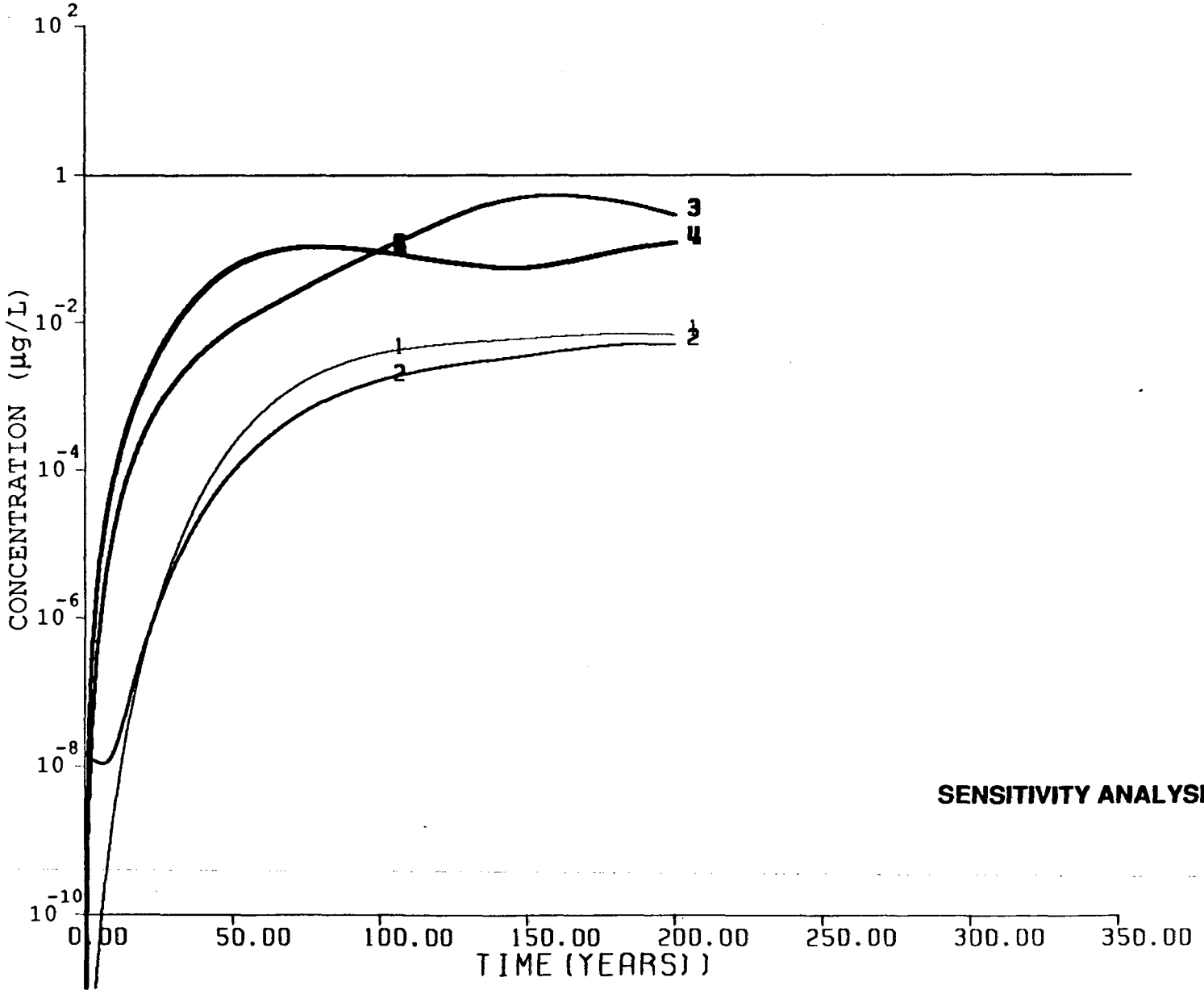

Figure G.9a

SENSITIVITY ANALYSIS CASE 9, WITH FAULT PARTIALLY REMOVED

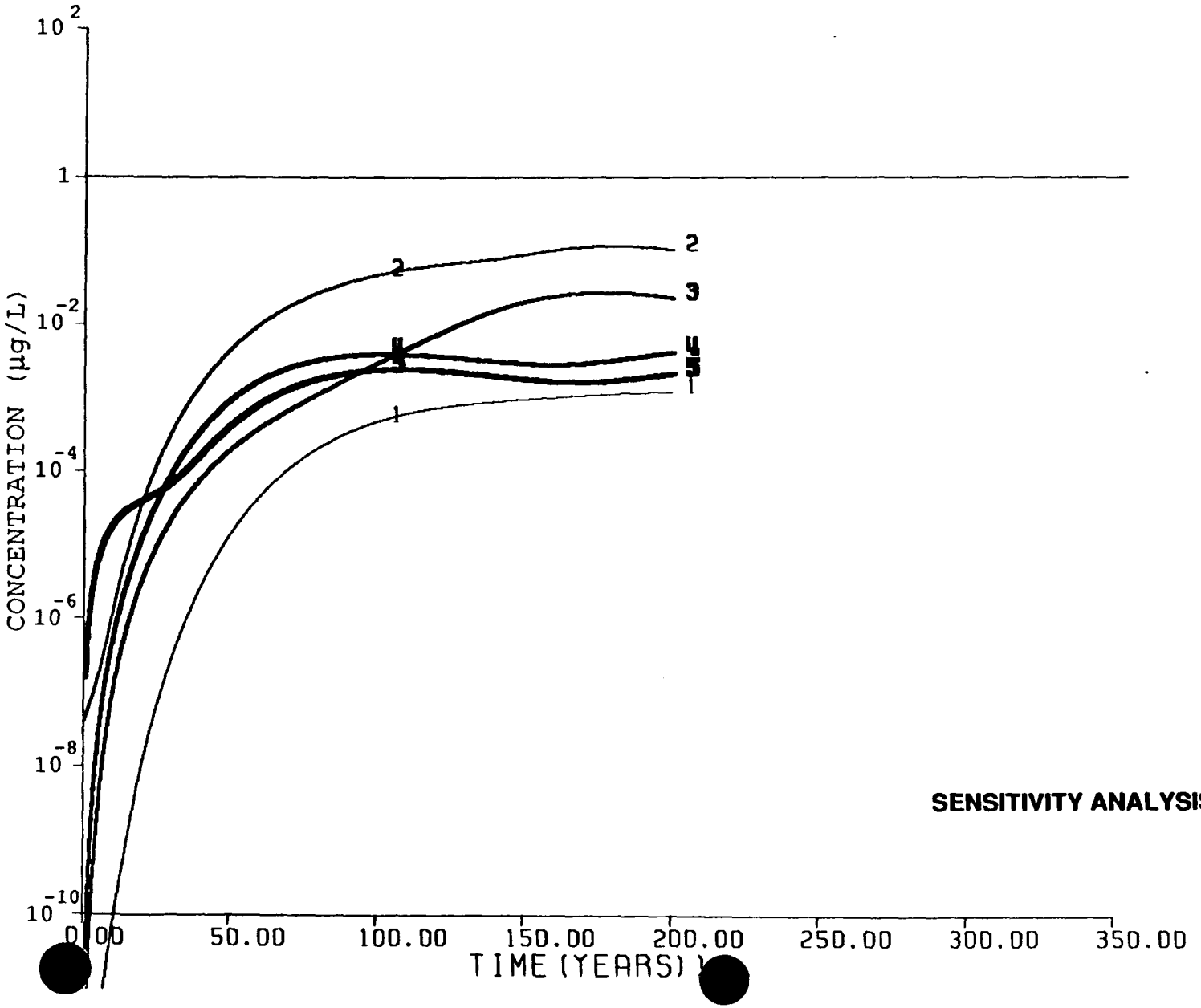

Figure G.9b

SENSITIVITY ANALYSIS CASE 9, WITH FAULT PARTIALLY REMOVED

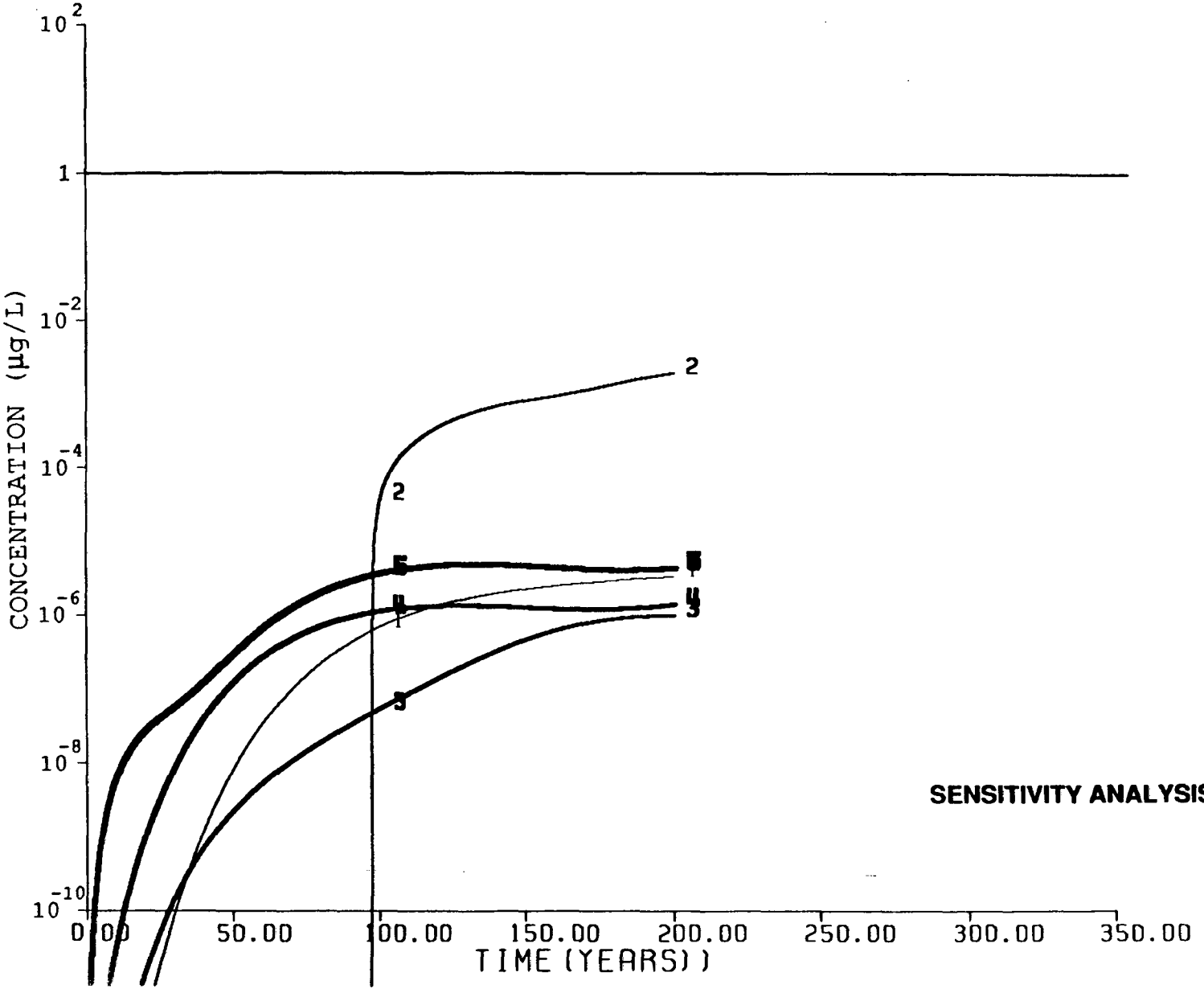

Figure G.9c

SENSITIVITY ANALYSIS CASE 9, WITH FAULT PARTIALLY REMOVED

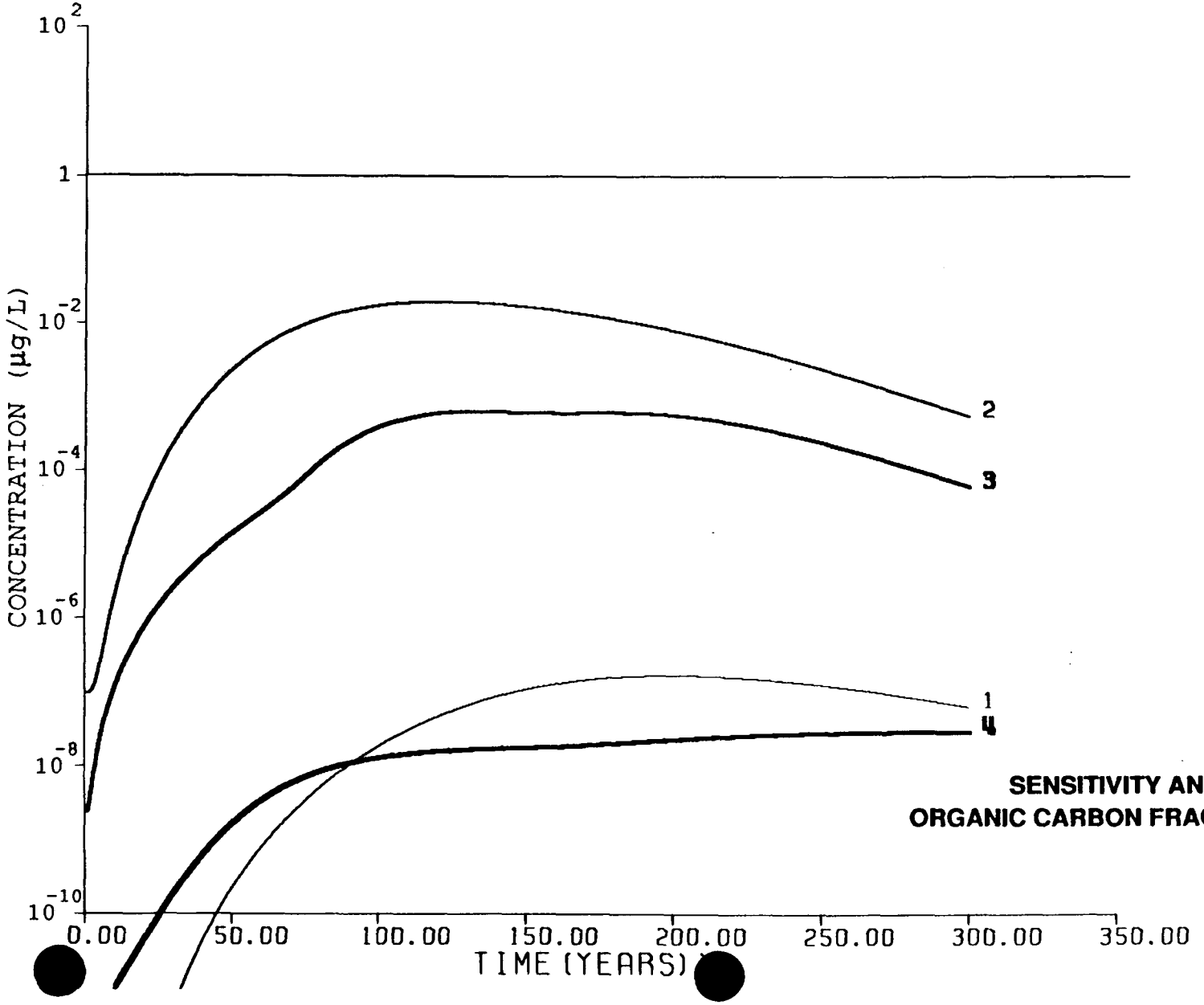

Figure G.10a

SENSITIVITY ANALYSIS CASE 10, WITH ORGANIC CARBON FRACTION DECREASED BY A FACTOR OF 3

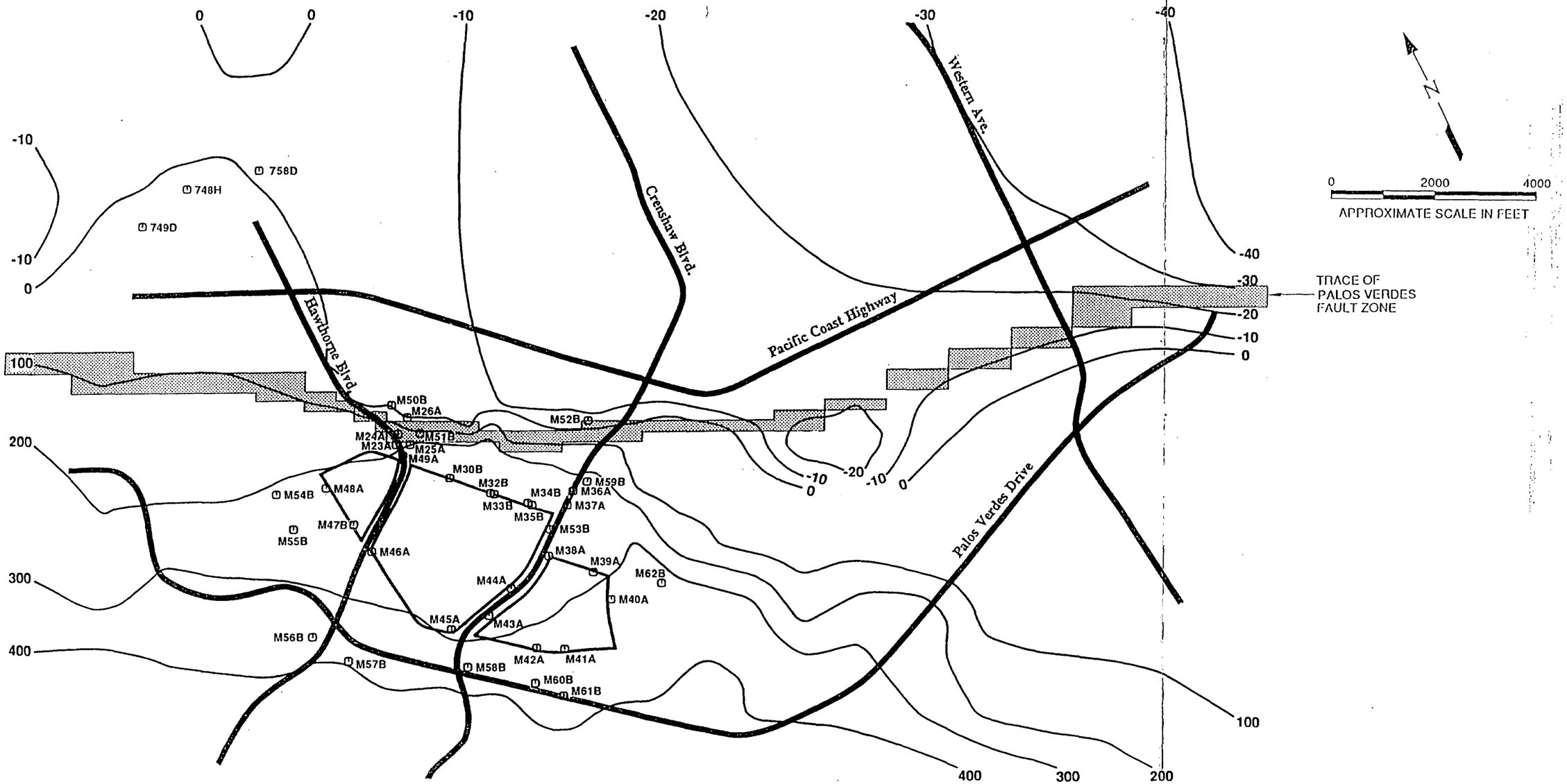

Figure G-9d
SENSITIVITY ANALYSIS, CASE #9,
SIMULATED GROUNDWATER ELEVATIONS,
TOP LAYER

FIGURE F.9d

PREDICTED CONCENTRATION DISTRIBUTION OF TRITIUM RADIOACTIVITY AT 200 YEARS

PALOS VERDES LANDFILL

SOURCE: AERIAL PHOTOGRAMMETRY TAKEN 4-12-91 BY AIRBORNE SYSTEMS, INC.

Asr2/fimp/wf/predict.dgn


PACIFIC COAST HWY
PALOS VERDES FAULT ZONE
ROLLING HILLS ROAD
PALOS VERDES DRIVE NORTH
HAWTHORNE BLVD
CRENSHAW BLVD
M29B (FORMERLY RFB10)
M59B (FORMERLY RFB27)
M53B (FORMERLY RFB16)
M52B (FORMERLY RFB20)
M55B (FORMERLY RFB21)
M50B (FORMERLY RFB3)
M51B (FORMERLY RFB4)
M56B (FORMERLY RFB24)
M57B-1 (FORMERLY RFB26)
M58B (FORMERLY RFB28)
M60B (FORMERLY RFB29)
M61B (FORMERLY RFB31)
M62B (FORMERLY RFBL3)
RFB1
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RFB4
RFB5
RFB6
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RFB30
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M01A & B
M02A & B
M03A & B
M04A & B
M05A & B
M06A & B
M07A & B
M08A
M09A
M10A
M11A
M12A
M13A
M14A
M15A
M16A
M17A
M18A
M19A
M20A
M21A
M22A
M23A
M24A
M25A
M26A
M27A
M28A
M29A
M30A
M31A
M32A
M33A
M34A
M35A
M36A
M37A
M38A
M39A
M40A
M41A
M42A
M43A
M44A
M45A
M46A
M47A


PACIFIC COAST HWY
COAST HIGHWAY
PALOS VERDES DRIVE NORTH
HAWTHORNE BLVD
CRENSHAW BLVD
GOLDEN MEADOW DRIVE
BASEBALL FIELD
M54B (FORMERLY RFB20)
M55B (FORMERLY RFB21)
M56B (FORMERLY RFB3)
M51B (FORMERLY RFB4)
M58B (FORMERLY RFB24)
M57B (FORMERLY RFB23)
M59B (FORMERLY RFB16)
M60B (FORMERLY RFB20)
M61B (FORMERLY RFB31)
M62B (FORMERLY RFBL3)
M52B (FORMERLY RFB13)
M53B (FORMERLY RFB10)
RFB1
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RFB4
RFB5
RFB6
RFB7
RFB8
RFB9
RFB10
RFB11
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RFB57
RFB58
RFB59
RFB60
RFB61

FIGURE F.3d

PREDICTED CONCENTRATION DISTRIBUTION OF BENZENE AT 200 YEARS

PALOS VERDES LANDFILL

SOURCE: AERIAL PHOTOGRAMMETRY TAKEN 4-12-91 BY AIRBORNE SYSTEMS, INC.

/usr2/lmpvl/predict.dgn

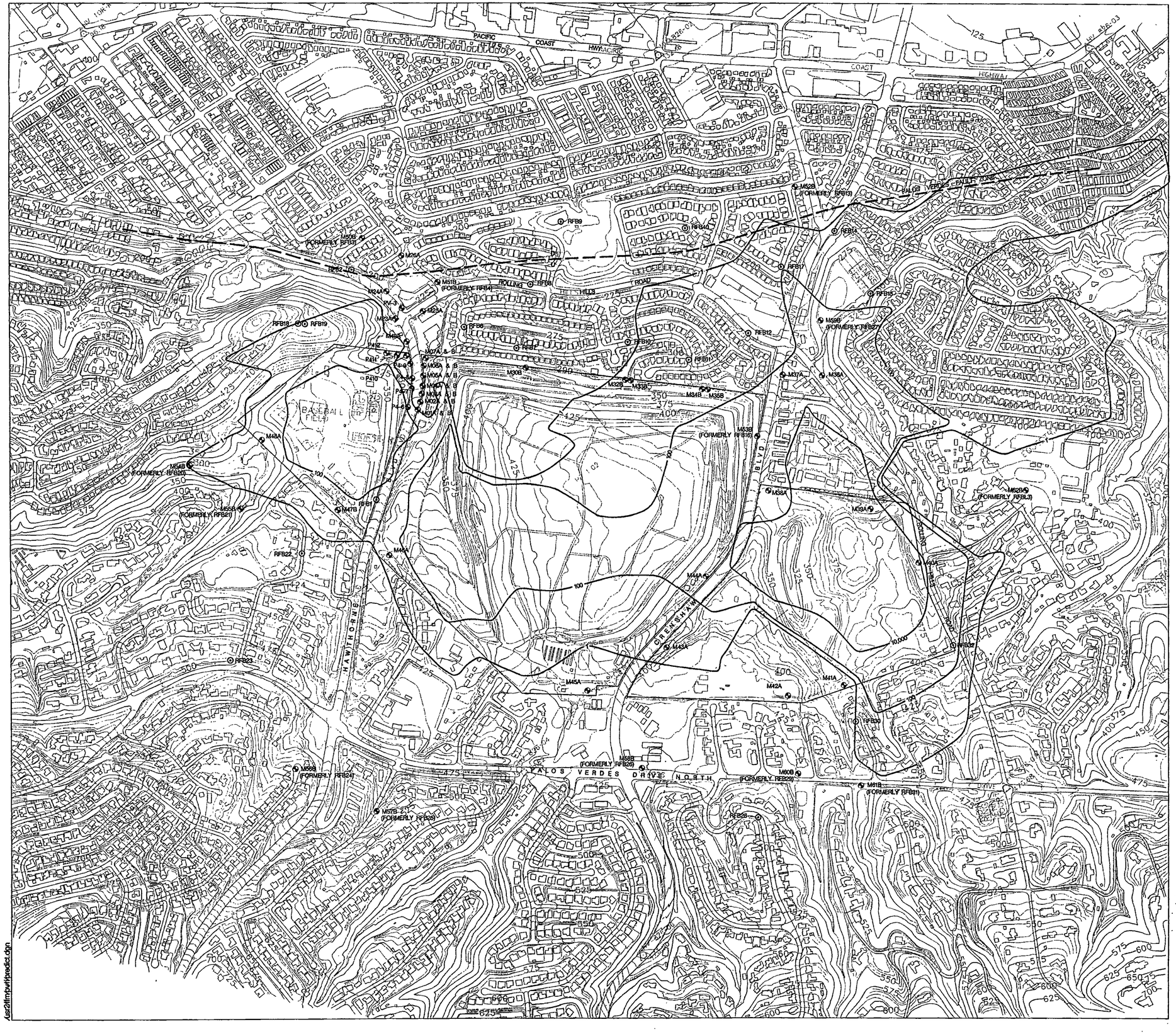
FIGURE F.4d

PREDICTED CONCENTRATION DISTRIBUTION OF TRICHLOROETHYLENE AT 200 YEARS

PALOS VERDES LANDFILL

SOURCE: AERIAL PHOTOGRAMMETRY TAKEN 4-12-91 BY AIRBORNE SYSTEMS, INC.

Ater2/tmp/pvlhpredict.dgn


PACIFIC COAST HWY
PACIFIC COAST HIGHWAY
PALOS VERDES DRIVE NORTH
HAWTHORNE
CRENSHAW
ROLLING HILLS ROAD
PALOS VERDES FAULT ZONE
BASEBALL FIELD
M52B (FORMERLY RFB13)
M55B (FORMERLY RFB27)
M58B (FORMERLY RFB26)
M60B (FORMERLY RFB29)
M61B (FORMERLY RFB31)
M59B (FORMERLY RFB24)
M57B (FORMERLY RFB28)
M56B (FORMERLY RFB22)
M54B (FORMERLY RFB20)
M53B (FORMERLY RFB16)
M52B (FORMERLY RFBL3)
M51B (FORMERLY RFB4)
M53B (FORMERLY RFB3)
RFB1
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RFB6
RFB7
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M5A & B
M6A & B
M7A & B
M8A & B
M9A & B
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M11A & B
M12A & B
M13A & B
M14A & B
M15A & B
M16A & B
M17A & B


PACIFIC COAST HWY
PALOS VERDES FAULT ZONE
PALOS VERDES DRIVE NORTH
ROLLING HILLS ROAD
HAWTHORNE BLVD
CRENSHAW BLVD
M54B (FORMERLY RFB20)
M52B (FORMERLY RFBL3)
M49B (FORMERLY RFB21)
M52B (FORMERLY RFB22)
M53B (FORMERLY RFB16)
M59B (FORMERLY RFB27)
M52B (FORMERLY RFB13)
M51B (FORMERLY RFB4)
M53B (FORMERLY RFB3)
M60B (FORMERLY RFB24)
M61B (FORMERLY RFB31)
M60B (FORMERLY RFB23)
M57B (FORMERLY RFB25)
M60B (FORMERLY RFB26)
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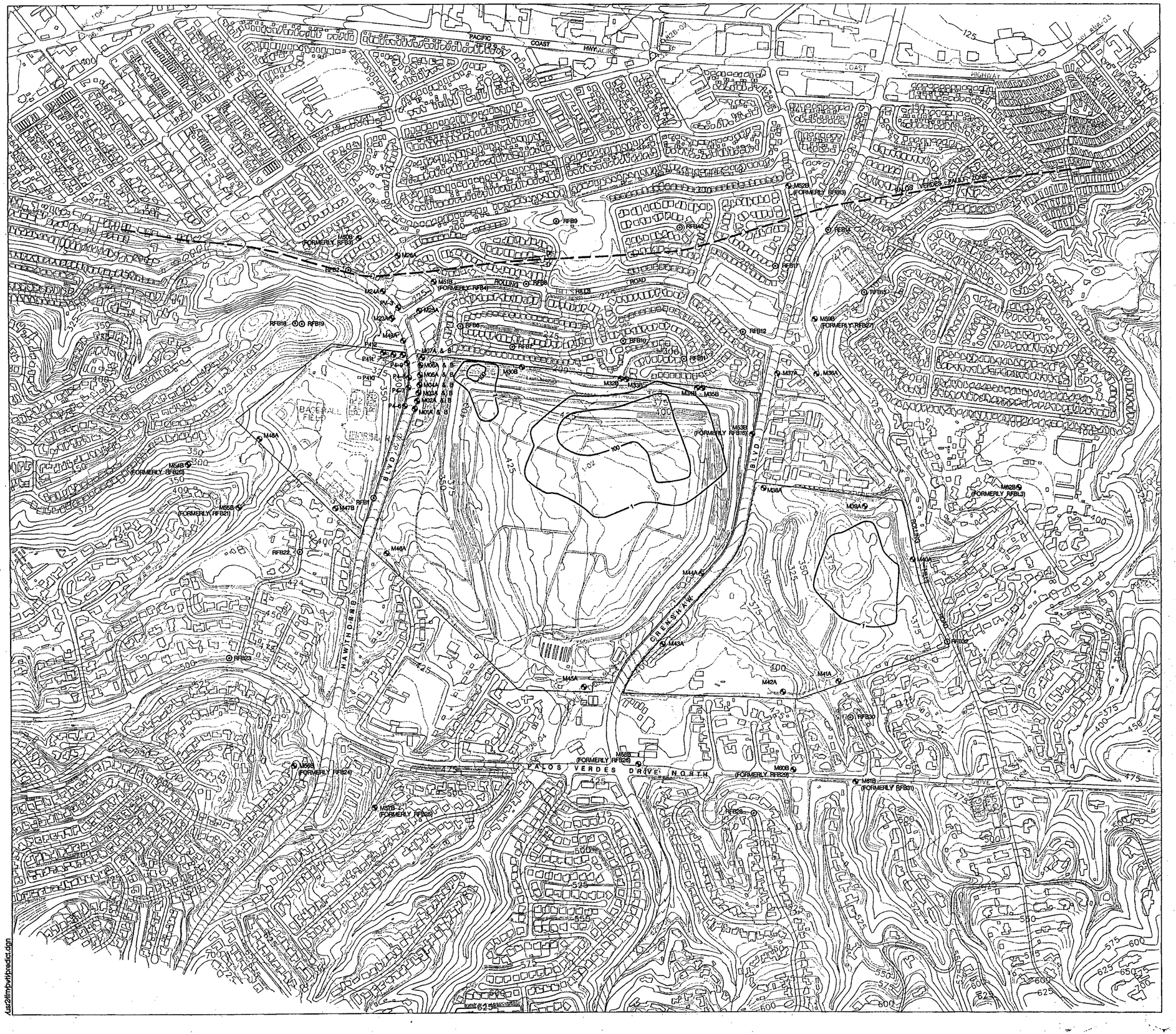
PACIFIC COAST HWY
PALOS VERDES DRIVE NORTH
HAWTHORNE BLVD
GREENSHAW
ROLLING HILLS ROAD
PALOS VERDES FAULT ZONE
BASEBALL FIELD
M48A
M48B (FORMERLY RFB20)
M35B (FORMERLY RFB21)
M47B
M46A
M44A
M43A
M45A
M42A
M41A
M40A
M39A
M38A
M37A
M36A
M35B (FORMERLY RFB16)
M34B
M33B
M32B
M30B
M31B (FORMERLY RFB4)
M29A
M28A
M27A
M26A
M25A
M24A
M23A
M22A
M21A
M08B (FORMERLY RFB23)
M09B (FORMERLY RFB24)
M07B (FORMERLY RFB25)
M06B (FORMERLY RFB29)
M05B (FORMERLY RFB26)
M01B (FORMERLY RFB31)
M02B (FORMERLY RFB27)
M03B (FORMERLY RFB13)
M04B (FORMERLY RFBL3)
RFB1
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P410
P411
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M06A & B
M30B
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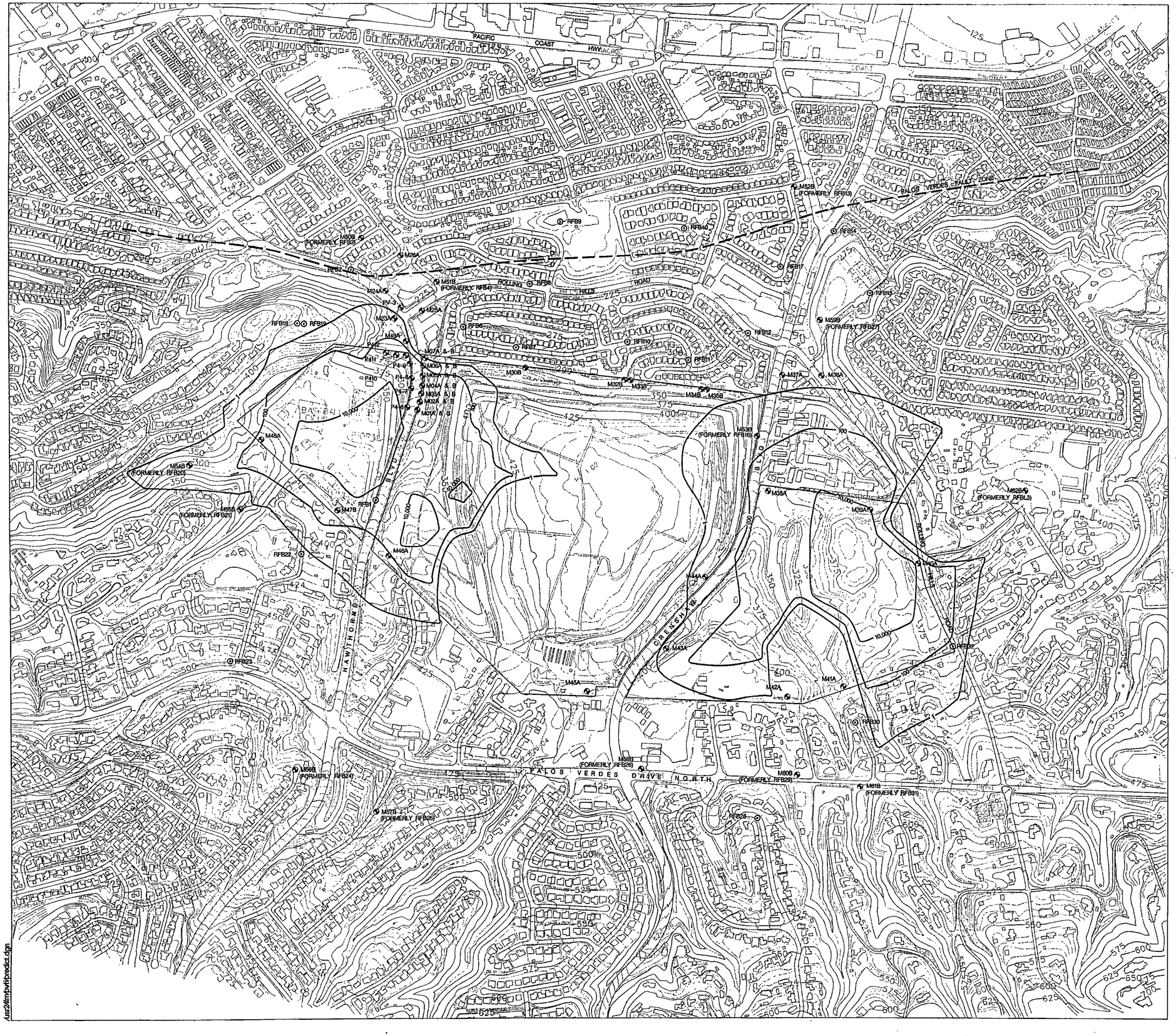


M54B GROUNDWATER MONITORING WELL LOCATION

BORING LOCATION

PROPERTY LINE

100 MODELED URANIUM RADIOACTIVITY CONCENTRATION CONTOUR (pCi/l)

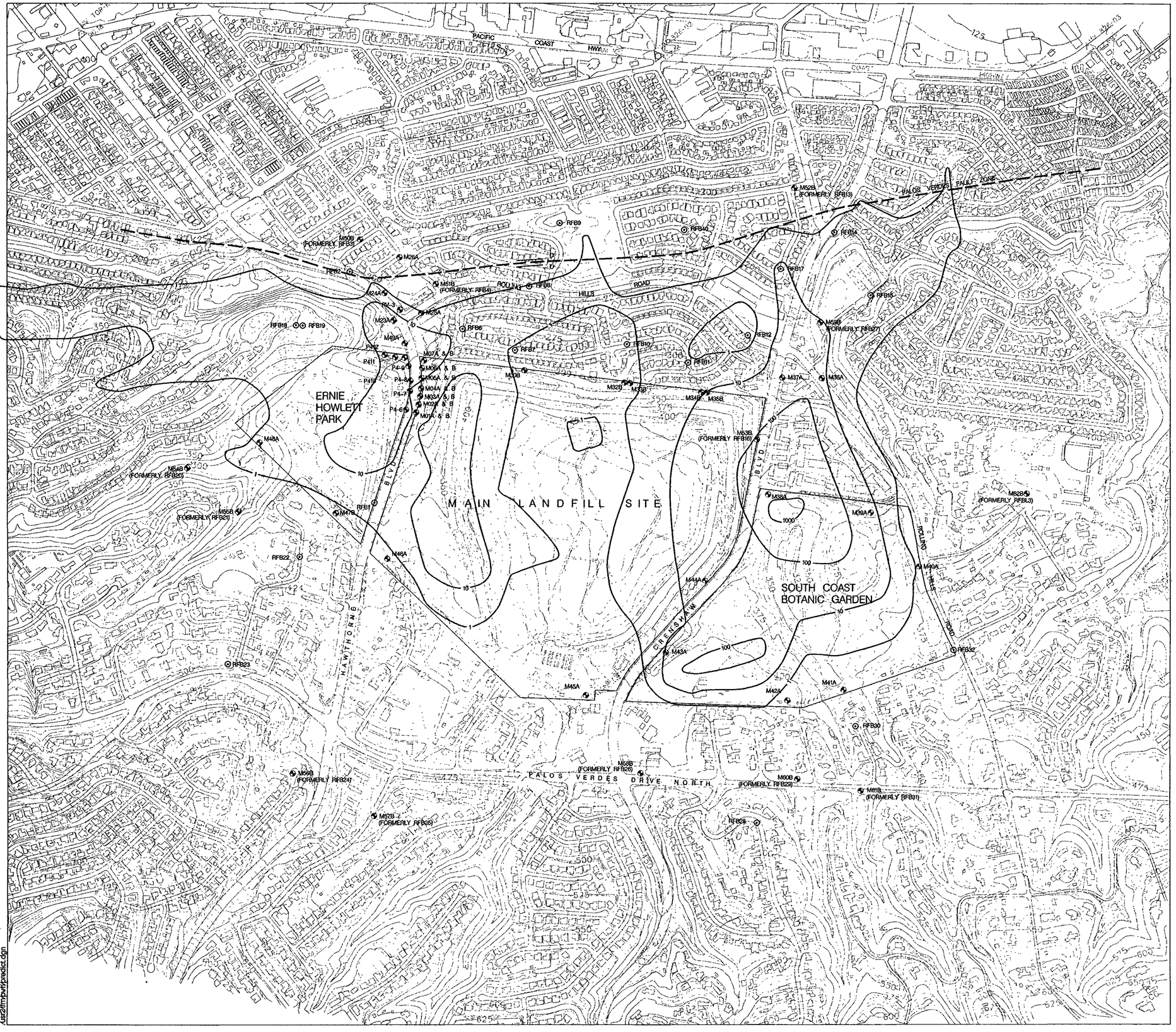
FIGURE F.8d

PREDICTED CONCENTRATION DISTRIBUTION OF URANIUM RADIOACTIVITY AT 200 YEARS

PALOS VERDES LANDFILL

SOURCE: AERIAL PHOTOGRAMMETRY TAKEN 4-12-91 BY AIRBORNE SYSTEMS, INC.

/usr2/lmp/pvr/predict.dgn


PACIFIC COAST HWY
PALOS VERDES FAULT ZONE
ROLLING HILLS ROAD
ERNIE HOWLETT PARK
MAIN LANDFILL SITE
SOUTH COAST BOTANIC GARDEN
PALOS VERDES DRIVE NORTH
HAWTHORNE BLVD
CRENSHAW BLVD
ROLLING HILLS ROAD
M52B (FORMERLY RFB13)
M53B (FORMERLY RFB27)
M53B (FORMERLY RFB16)
M52B (FORMERLY RFBL3)
M54B (FORMERLY RFB20)
M55B (FORMERLY RFB21)
M56B (FORMERLY RFB24)
M57B-2 (FORMERLY RFB25)
M58B (FORMERLY RFB28)
M60B (FORMERLY RFB29)
M61B (FORMERLY RFB31)
M51B (FORMERLY RFB4)
M50B (FORMERLY RFB3)
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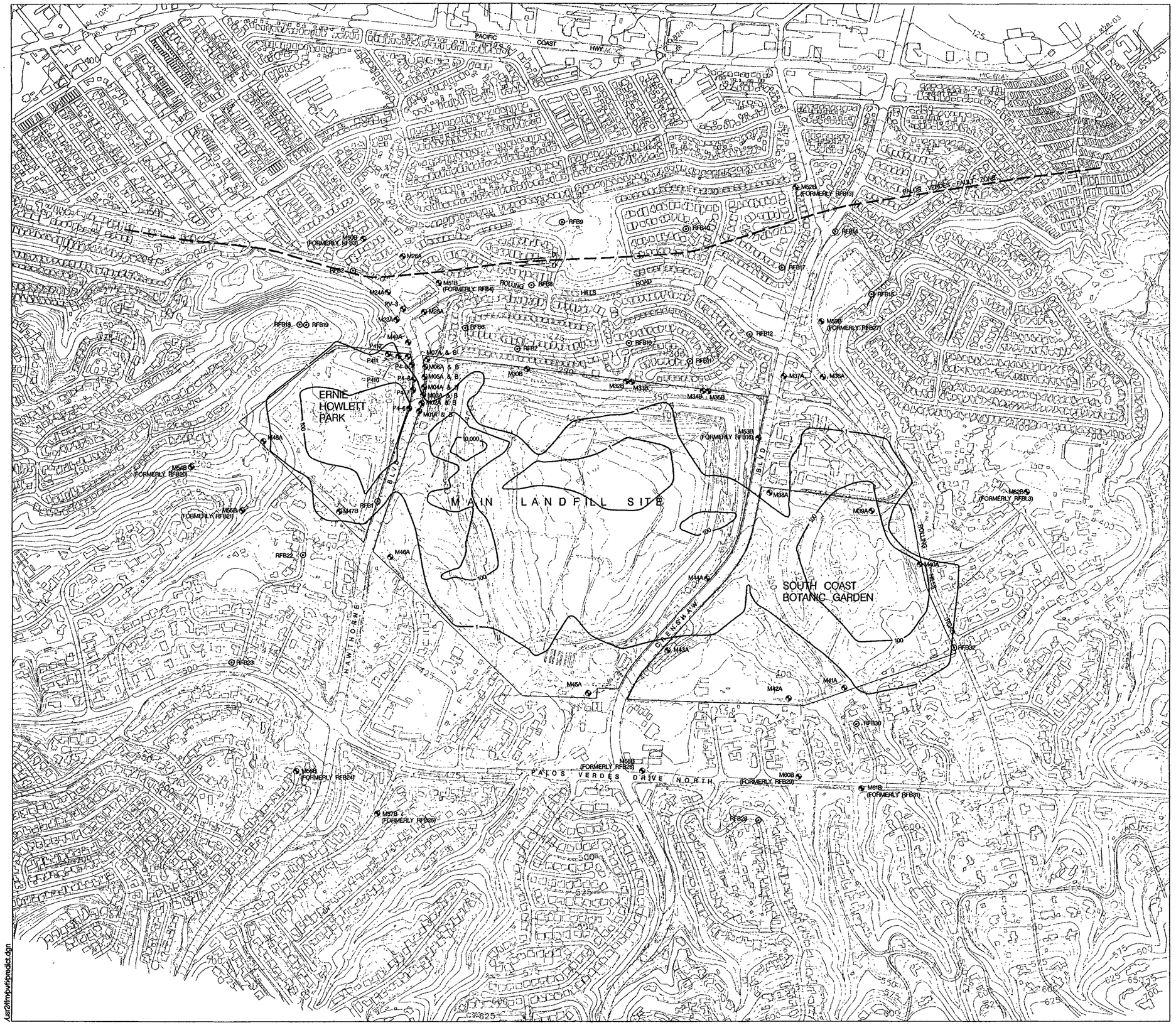
P4-40


PACIFIC COAST HWY
PALOS VERDES FAULT ZONE
ROLLING HILLS ROAD
ERNIE HOWLETT PARK
MAIN LANDFILL SITE
SOUTH COAST BOTANIC GARDEN
PALOS VERDES DRIVE NORTH
HAWTHORNE BLVD
CRENSHAW BLVD
NARBONNE AVE
M52B (FORMERLY RFB13)
M50B (FORMERLY RFB33)
M51B (FORMERLY RFB4)
M50B (FORMERLY RFB27)
M54B (FORMERLY RFB20)
M55B (FORMERLY RFB21)
M53B (FORMERLY RFB16)
M52B (FORMERLY RFBL3)
M56B (FORMERLY RFB24)
M57B (FORMERLY RFB25)
M58B (FORMERLY RFB28)
M60B (FORMERLY RFB29)
M61B (FORMERLY RFB31)
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RFB31
RFB32
M28A
M24A
M23A
M25A
M26A
M27A & B
M30B
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M33B
M34B
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M38A
M39A
M40A
M41A
M42A
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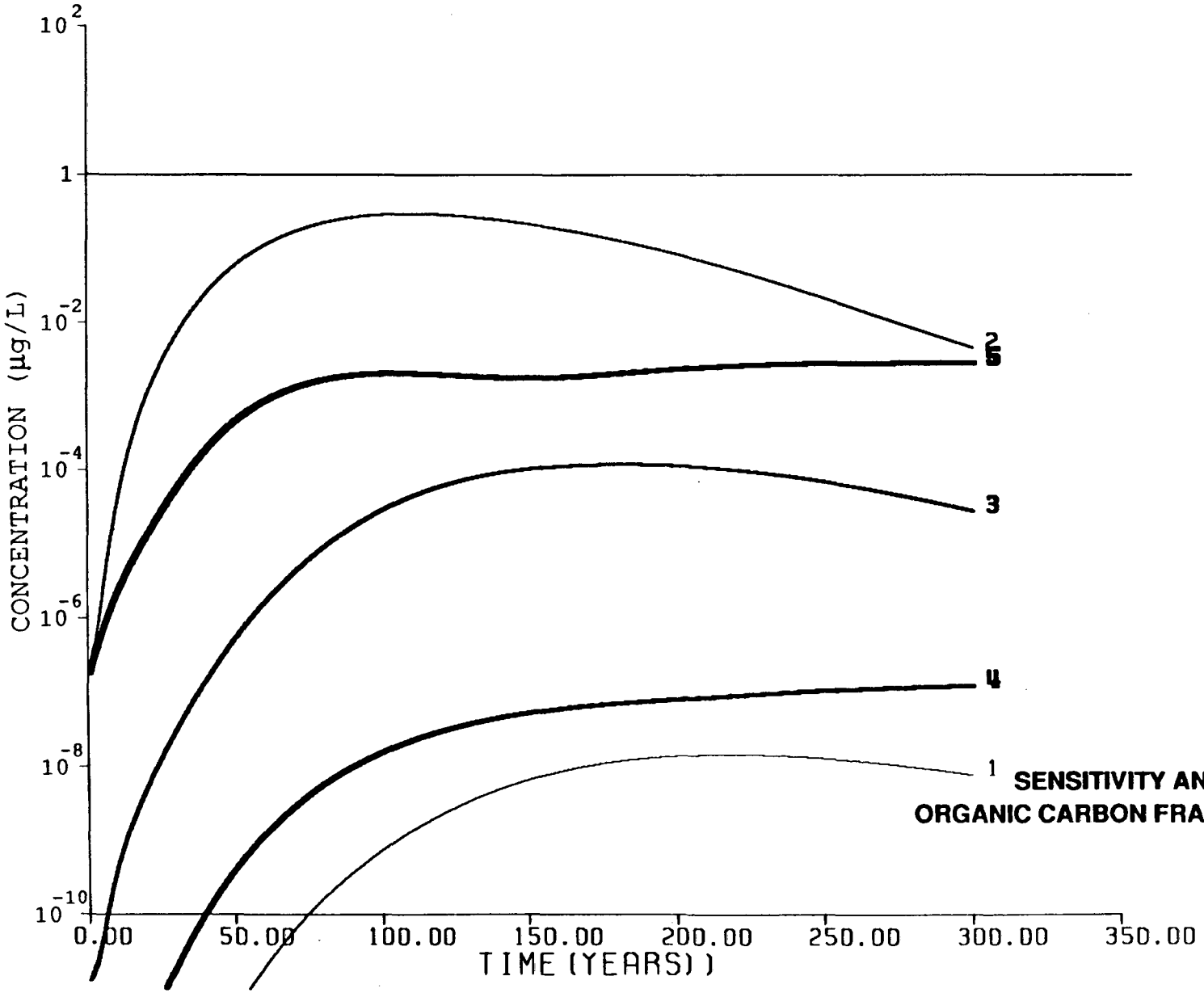


Figure G.10b

SENSITIVITY ANALYSIS CASE 10, WITH ORGANIC CARBON FRACTION DECREASED BY A FACTOR OF 3

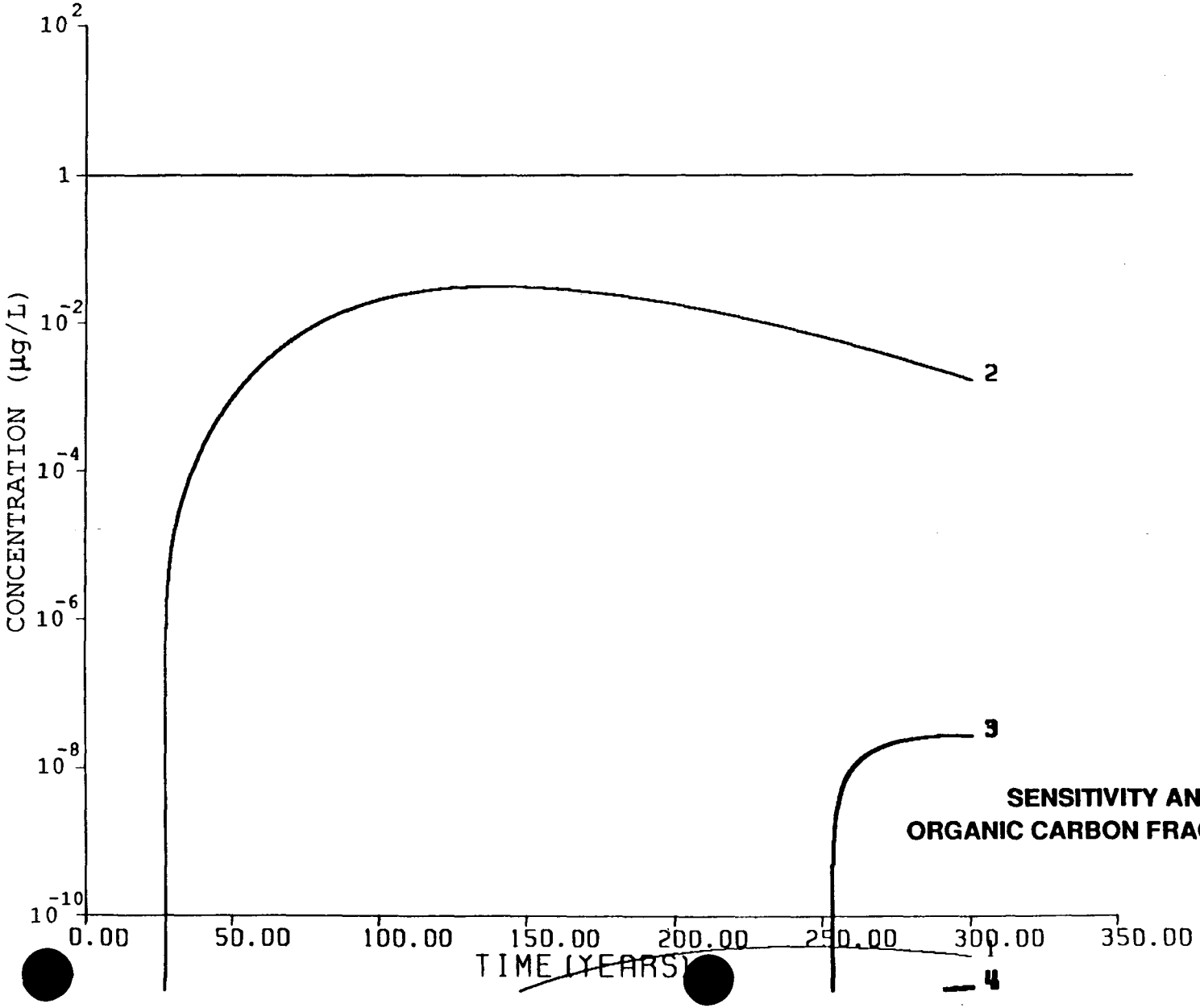


Figure G.10c

SENSITIVITY ANALYSIS CASE 10, WITH ORGANIC CARBON FRACTION DECREASED BY A FACTOR OF 3

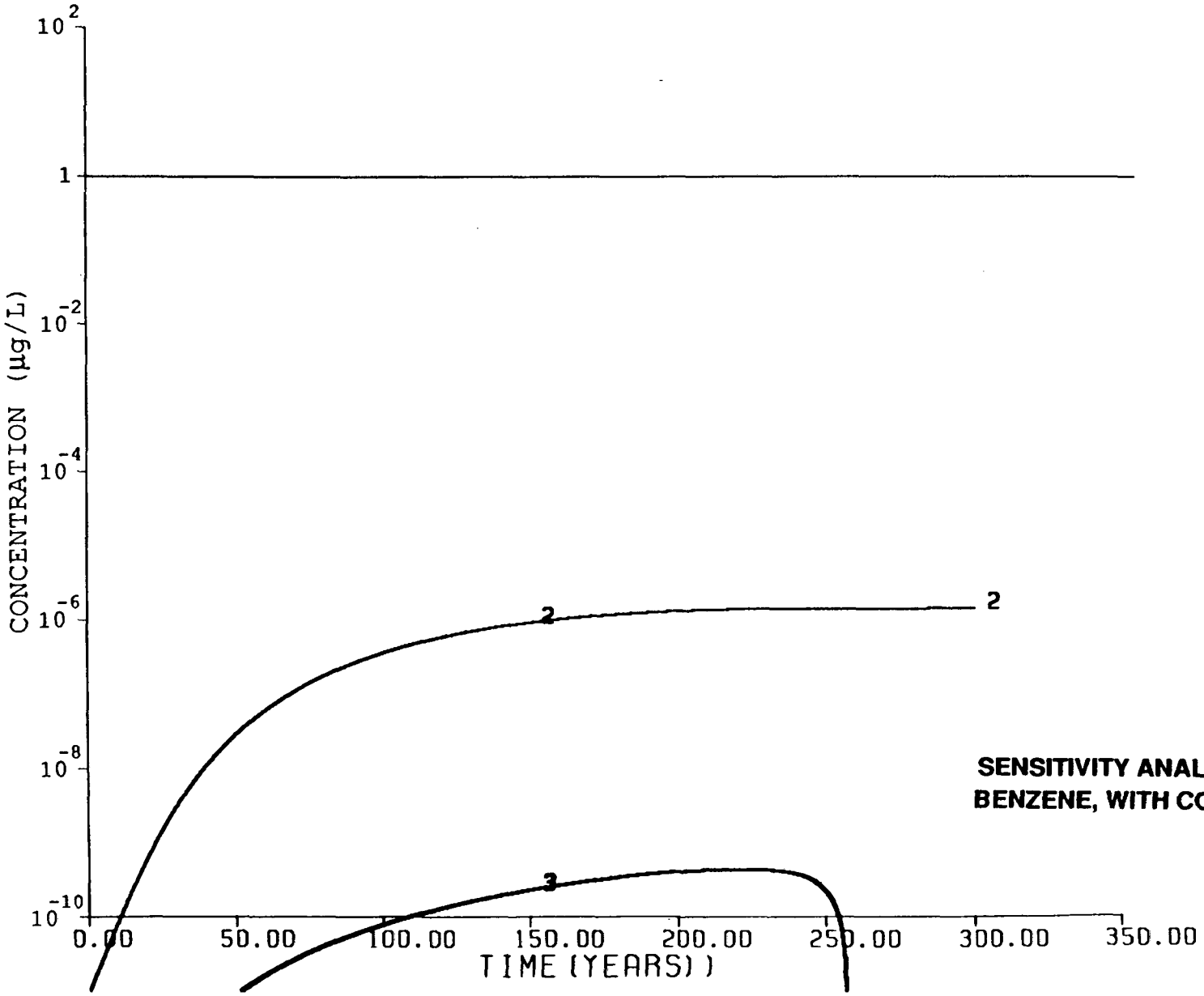


Figure G.11a

SENSITIVITY ANALYSIS CASE 11, ETHYL BENZENE, WITH CONCERVATIVE INITIAL CONDITION

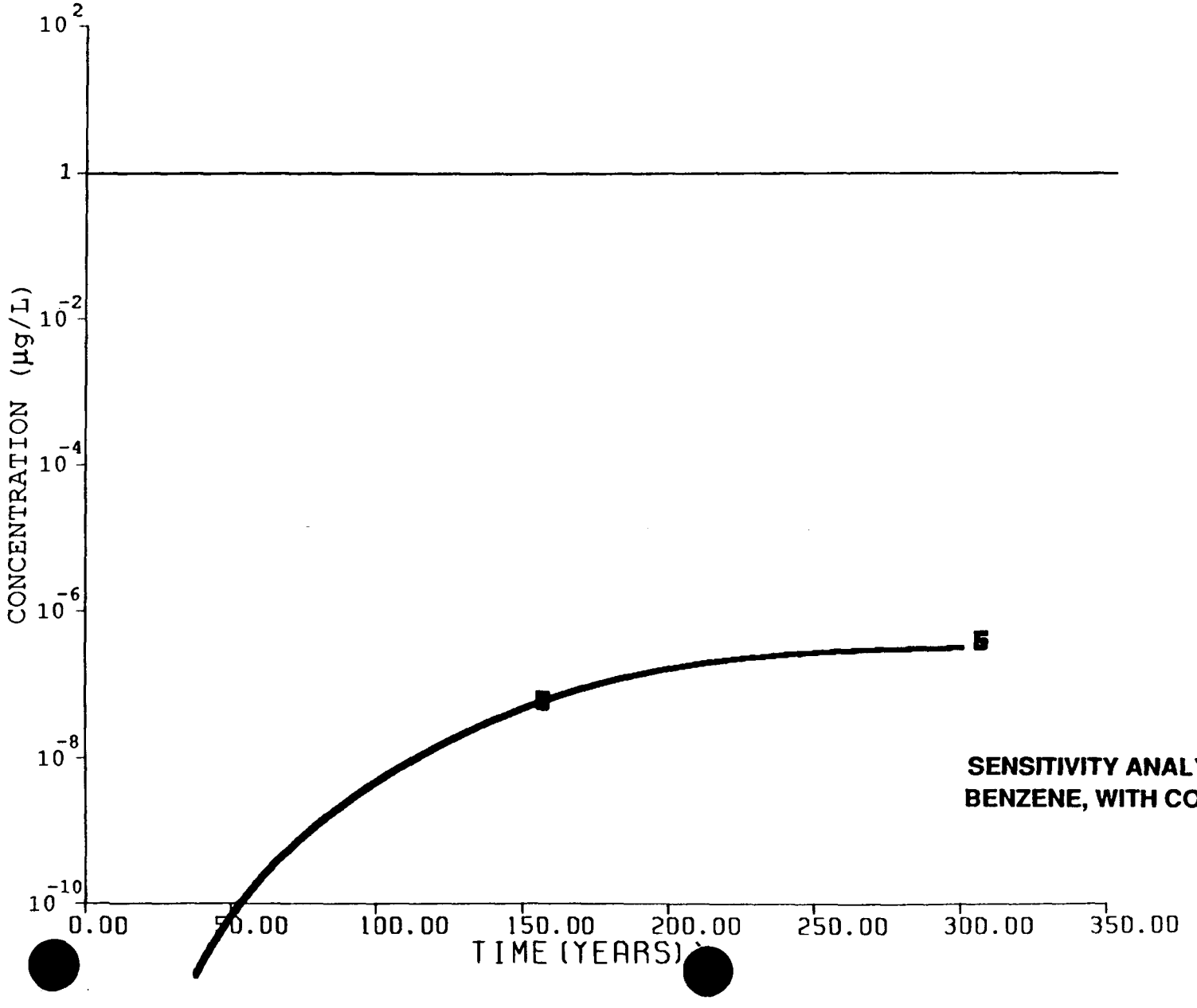


Figure G.11b

SENSITIVITY ANALYSIS CASE 11, ETHYL BENZENE, WITH CONCERVATIVE INITIAL CONDITION

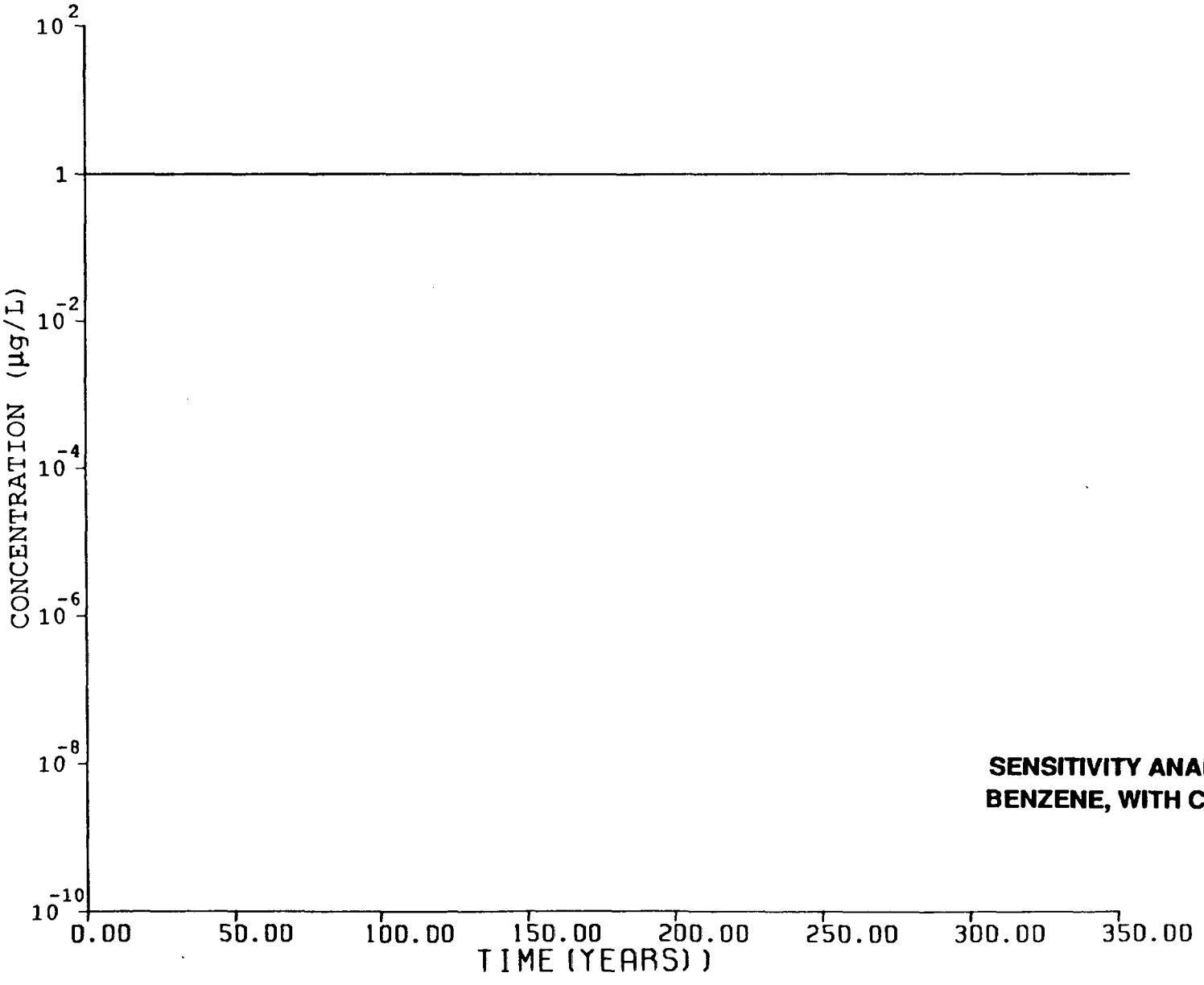
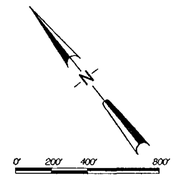


Figure G.11c

SENSITIVITY ANALYSIS CASE 11, ETHYL BENZENE, WITH CONCERVATIVE INITIAL CONDITION



PROPERTY LINE

A–A' LINE OF 2-D SLOPE STABILITY ANALYSIS

FIGURE E.10–1

CUT AND REFUSE FILL SLOPES MAP

SUBGRADE CONTOURS ARE IN FEET MSL

PALOS VERDES LANDFILL
DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT
SANITATION DISTRICTS, APRIL 1993

SOURCE: AERIAL PHOTOGRAMMETRY TAKEN 4-12-91 BY AIRBORNE SYSTEMS, INC.

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