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2/1/95

CRA
Consulting Engineers

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February 1, 1995

Reference No. 6029-50

Mr. Anthony Rutter
Director, Waste Management Division
Remedial Project Manager
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois
U.S.A. 60604

Mr. Regan S. Williams
State Project Coordinator
Ohio EPA - Division of
Emergency & Remedial Response
2110 East Aurora Road
Twinsburg, Ohio
U.S.A. 44087

Gentlemen:

Re: Startup Round of Groundwater Monitoring
Summit National Superfund Site
Deerfield, Ohio

In accordance with the Consent Decree and Statement of Work (SOW) requirements for the Summit National Superfund Site (Site) in Deerfield, Ohio, the Summit National Facility Trust (SNFT) herewith submits the startup round of groundwater analytical results and the groundwater hydraulic monitoring data required by the groundwater effectiveness monitoring program for the Site. The startup round of groundwater sampling, after completion of the pipe and media drain and extraction well installations at the Site, was conducted during the period of November 7 to 17, 1994.

Attachment A is a memorandum summarizing the groundwater monitoring field activities for the startup round of the groundwater effectiveness monitoring program and Attachment B presents the analytical results of the groundwater samples collected as part of the startup round of groundwater sampling. Conestoga-Rovers & Associates (CRA's) data quality assurance evaluation for the startup round of groundwater analysis is included in Attachment C. All the analytical data were found to exhibit acceptable levels of accuracy and precision and were used with the qualifications noted in Appendix C. A disk copy of the groundwater database in accordance with United States Environmental Protection Agency (USEPA's) Ground Water Information Tracking System will be provided to USEPA after completion of the second round of groundwater sampling and after completion of the remedial construction activities at the Site.

A summary of the detected organic compounds and the inorganic compounds that exceeded their respective maximum contaminant levels (MCLs) are presented on attached Plans WTU, LIU, UIU, USU and EW.

Monitoring well MW106 was not sampled in November 1994 due to access problems created by the remedial construction activities in progress at the Site in November and December 1994, but was sampled on January 11 [Volatile Organic Compounds (VOCs)] and January 12, 1995 (remainder of compounds). Due to insufficient well recovery, it was not possible to obtain sufficient sample volume to complete the specified analyses for groundwater samples obtained from monitoring wells MW11, MW113, MW116 and MW206 during the groundwater sampling activities conducted in November 1994. A groundwater sample from MW113 was obtained on January 12, 1995 for VOC analyses. Groundwater samples will be collected from MW11, MW113, MW116 and MW206 during the week of January 30, 1995 to complete the specified analyses for the startup round of groundwater sampling.

Groundwater levels at the Site, measured on a bi-weekly basis in accordance with the SOW from November 7, 1994 to January 30, 1995, are presented in Appendix D. The groundwater hydraulic data were reduced to elevations and entered into a computer database as required by the SOW. Groundwater contours for the water table unit (WTU), upper intermediate unit (UIU), lower intermediate unit (LIU) and the upper Sharon unit (USU) are presented on figures in Attachment E for each of the above rounds of groundwater level measurements. Groundwater hydrographs for each of the wells and piezometers used for hydraulic monitoring are included in Attachment F. Extraction of groundwater from the six IU extraction wells at the Site commenced on December 1, 1994, whereas extraction of groundwater from the WTU initially commenced on June 9, 1994 during installation of the wet well, and groundwater extraction from the completed pipe and media drain commenced on September 9, 1994. In summary, the groundwater extraction system is effectively containing the groundwater within the WTU and IU at the Site boundary. The extraction well pump intakes were initially set at 65 feet below top of casing of each extraction well pending finalization of the extraction well pumping test analyses. Based on the results of the extraction well pumping tests as reported to USEPA and OEPA in a letter dated January 5, 1995, the extraction well pumps required lowering to ensure continued hydraulic containment of the IU groundwater at the Site boundary. The extraction well pumps were all lowered on January 26, 1995.

In accordance with the effectiveness monitoring program for the Site, groundwater hydraulic monitoring will continue on a bi-weekly basis for three months after commissioning of the groundwater extraction system and monthly thereafter for the remainder of the first year of operation of the complete groundwater extraction

system. The second round of groundwater sampling is scheduled for May 1995, 6 months after the startup round in accordance with the Consent Decree.

SNFT trusts this letter report is sufficient for the groundwater effectiveness monitoring requirements as required by the SOW for the Site. Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

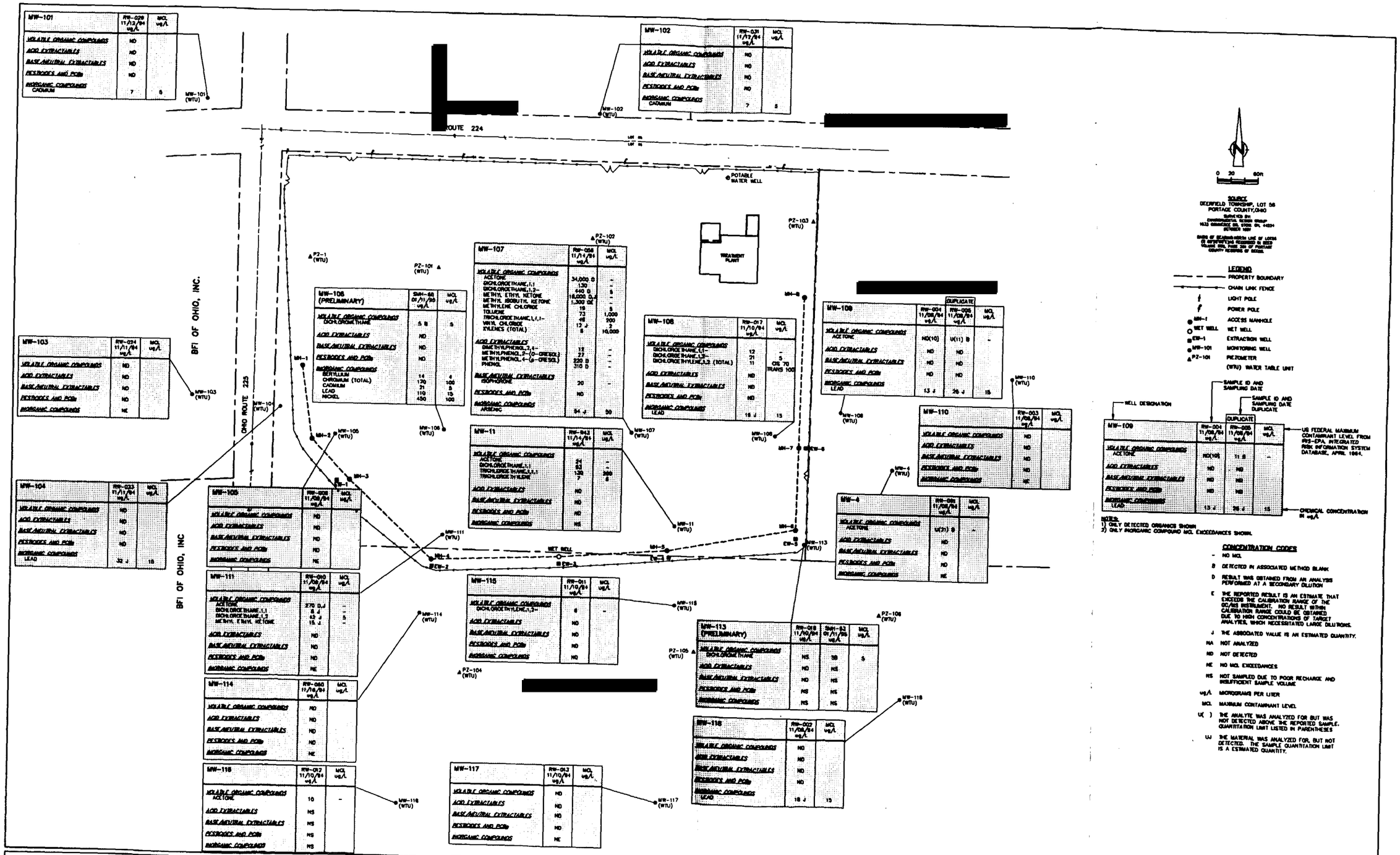
Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Steve Whillier, B. Sc.

SW/ev/11
Encl.

c.c.: Richard McAvoy
Gary Gifford
Patrick Steerman
Kenneth Walanski
Douglas Haynam
Jack Michels
Gerry Kestle
Jeroen Winterink
Mike Mateyk



MW-101	RW-029 11/12/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS CADMIUM	7	5

MW-102	RW-031 11/12/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS CADMIUM	7	5

MW-103	RW-024 11/11/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-104	RW-023 11/11/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS LEAD	32 J	15

MW-105	RW-028 11/08/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-106 (PRELIMINARY)	SMH-58 05/11/95 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS DICHLOROMETHANE	5 B	5
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS BERYLLIUM	14	4
CHROMIUM (TOTAL)	120	100
CADMIUM	21	5
LEAD	110	15
NICKEL	450	100

MW-107	RW-056 11/14/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS		
ACETONE	34,000 D	-
DICHLOROETHANE,1,1	130	-
DICHLOROETHANE,1,2-	540 D	5
METHYL ETHYL KETONE	18,000 D,J	-
METHYL ISOBUTYL KETONE	1,300 DE	-
METHYLENE CHLORIDE	19	-
TOLUENE	73	5
TRICHLOROETHANE,1,1,1-	46	1,000
VINYL CHLORIDE	12 J	200
XYLENES (TOTAL)	5	2
		10,000
ACID EXTRACTABLES		
DIMETHYLPHENOL,2,4-	12	-
METHYLPHENOL,2-(O-CRESOL)	27	-
METHYLPHENOL,4-(p-CRESOL)	220 D	-
PHENOL	310 D	-
BASE/NEUTRAL EXTRACTABLES ISOPHORONE	20	-
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS ARSENIC	54 J	50

MW-108	RW-017 11/10/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS		
DICHLOROETHANE,1,1-	12	-
DICHLOROETHANE,1,2-	21	5
DICHLOROETHYLENE,1,2 (TOTAL)	11	CIS 70 TRANS 100
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS LEAD	18 J	15

MW-109	RW-004 11/08/94 ug/L	DUPLICATE RW-005 11/08/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS ACETONE	ND(10)	U(11) B	-
ACID EXTRACTABLES	ND	ND	
BASE/NEUTRAL EXTRACTABLES	ND	ND	
PESTICIDES AND PCBs	ND	ND	
INORGANIC COMPOUNDS LEAD	13 J	26 J	15

MW-110	RW-003 11/08/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-111	RW-030 11/08/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS		
ACETONE	270 DJJ	-
DICHLOROETHANE,1,1	6 J	-
DICHLOROETHANE,1,2	43 J	5
METHYL ETHYL KETONE	15 J	-
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-114	RW-060 11/18/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-116	RW-012 11/10/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS ACETONE	10	-
ACID EXTRACTABLES	NS	
BASE/NEUTRAL EXTRACTABLES	NS	
PESTICIDES AND PCBs	NS	
INORGANIC COMPOUNDS	NS	

MW-11	RW-043 11/14/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS		
ACETONE	24	-
DICHLOROETHANE,1,1	63	-
TRICHLOROETHANE,1,1,1	130	200
TRICHLOROETHYLENE	7	5
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-115	RW-011 11/10/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS DICHLOROETHYLENE,1,2-	6	-
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	ND	

MW-117	RW-013 11/10/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-4	RW-026 11/08/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS ACETONE	U(21) 6	-
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-113 (PRELIMINARY)	RW-018 11/10/94 ug/L	SMH-53 05/11/95 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS DICHLOROETHANE	NS	58	5
ACID EXTRACTABLES	ND	NS	
BASE/NEUTRAL EXTRACTABLES	ND	NS	
PESTICIDES AND PCBs	NS	NS	
INORGANIC COMPOUNDS	NS	NS	

MW-118	RW-027 11/08/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS LEAD	18 J	15

Revision	Date	Initial
0 ROUND 1 GROUNDWATER SAMPLING	JAN. 1995	SAW

Approved

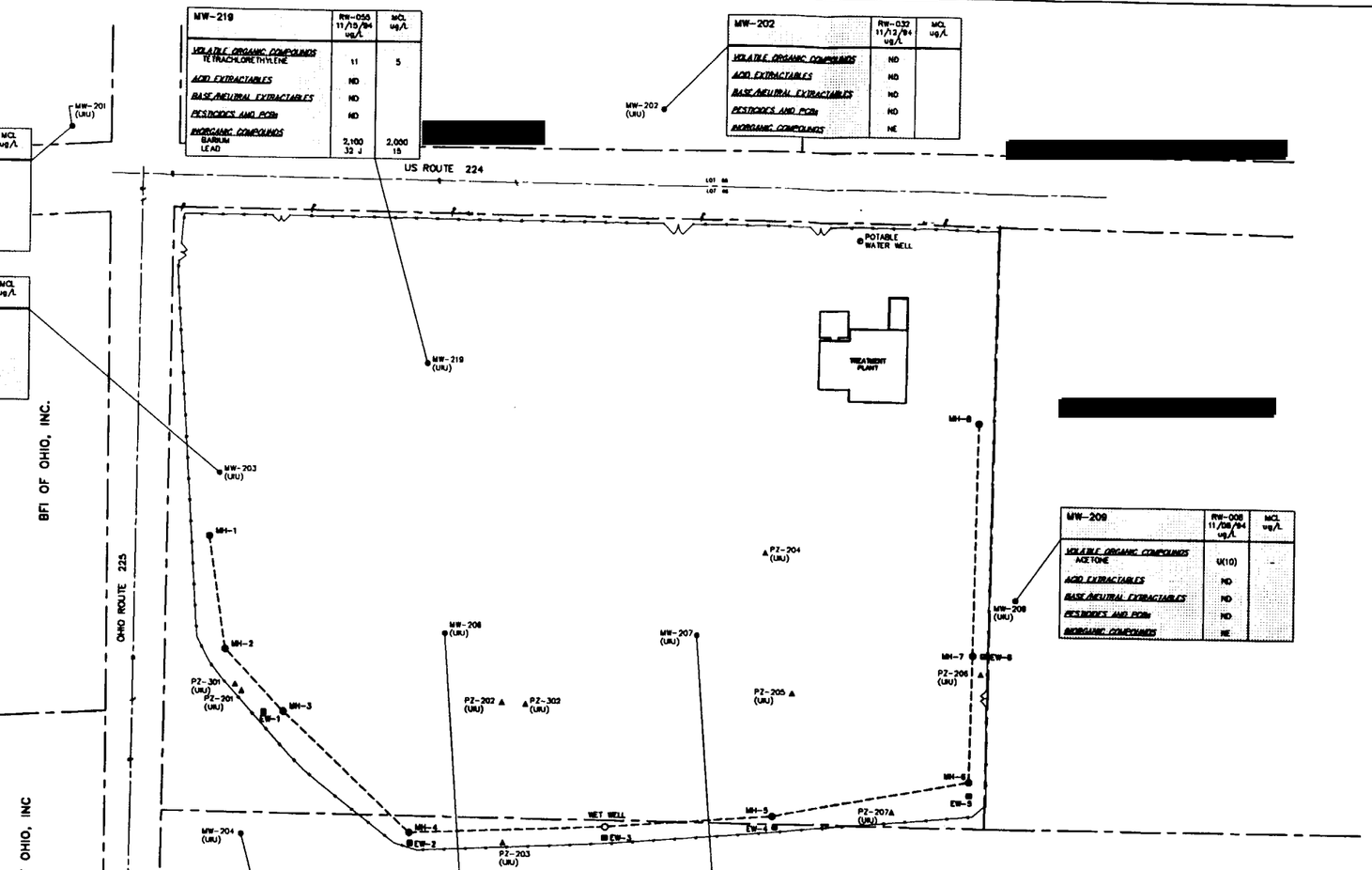
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

GROUNDWATER QUALITY MONITORING

WATER TABLE UNIT

CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: JRV	Scale: 1"=60'	Date: JANUARY 1995	File No: P-01	Rev. No: 0
Designed by: RB				
Checked by: RB	Field book:	Project No: 6029	Drawing No: WTU	



MW-219	RW-055 11/15/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS		
TETRACHLORETHYLENE	11	5
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS		
BARIUM	2,100	2,000
LEAD	32 J	15

MW-202	RW-037 11/13/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-201	RW-028 11/12/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-203	RW-045 11/14/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-209	RW-008 11/08/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS		
ACETONE	U(10)	-
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-204	RW-021 11/11/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS		
LEAD	26 J	15

MW-206	RW-040 11/14/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NS	

MW-207	RW-042 11/15/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-205	RW-014 11/10/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS		
ACETONE	12 B	-
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

0 20 60ft

SOURCE
DEERFIELD TOWNSHIP, LOT 56
PORTAGE COUNTY, OHIO
SURVEYED BY:
ENVIRONMENTAL DESIGN GROUP
1633 ORMSBY RD. STOW OH. 44224
OCTOBER 1991
BASIS OF BEARING: NORTH LINE OF LOTS 56 & 57 AS RECORDED IN DEED VOLUME 1091, PAGE 394 OF PORTAGE COUNTY RECORDS OF DEEDS.

LEGEND
- PROPERTY BOUNDARY
- CHAIN LINK FENCE
- LIGHT POLE
- POWER POLE
- MH-1 ACCESS MANHOLE
- WET WELL WET WELL
- EW-1 EXTRACTION WELL
- MW-101 MONITORING WELL
- PZ-101 PIEZOMETER
- (UIU) UPPER INTERMEDIATE UNIT

WELL DESIGNATION — SAMPLE ID AND SAMPLING DATE

MW-204	RW-021 11/11/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS		
LEAD	26 J	15

US FEDERAL MAXIMUM CONTAMINANT LEVEL FROM IRIS-EPA, INTEGRATED RISK INFORMATION SYSTEM DATABASE, APRIL 1994.

CHEMICAL CONCENTRATION IN ug/L

NOTES:
1) ONLY DETECTED ORGANICS SHOWN
2) ONLY INORGANIC COMPOUND MCL EXCEEDANCES SHOWN.

CONCENTRATION CODES

- \- NO MCL
- B DETECTED IN ASSOCIATED METHOD BLANK
- D RESULT WAS OBTAINED FROM AN ANALYSIS PERFORMED AT A SECONDARY DILUTION
- E THE REPORTED RESULT IS AN ESTIMATE THAT EXCEEDS THE CALIBRATION RANGE OF THE GC/MS INSTRUMENT. NO RESULT WITHIN CALIBRATION RANGE COULD BE OBTAINED DUE TO HIGH CONCENTRATIONS OF TARGET ANALYTES, WHICH NECESSITATED LARGE DILUTIONS.
- J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.
- NA NOT ANALYZED
- ND NOT DETECTED
- NE NO MCL EXCEEDANCES
- NS NOT SAMPLED DUE TO POOR RECHARGE AND INSUFFICIENT SAMPLE VOLUME
- ug/L MICROGRAMS PER LITER
- MCL MAXIMUM CONTAMINANT LEVEL
- U( ) THE ANALYTE WAS ANALYZED FOR BUT WAS NOT DETECTED ABOVE THE REPORTED SAMPLE QUANTITATION LIMIT LISTED IN PARENTHESES
- UJ THE MATERIAL WAS ANALYZED FOR, BUT NOT DETECTED. THE SAMPLE QUANTITATION LIMIT IS A ESTIMATED QUANTITY.

No	Revision	Date	Initial
0	ROUND 1 GROUNDWATER SAMPLING	JAN. 1995	SAW

Approved

SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

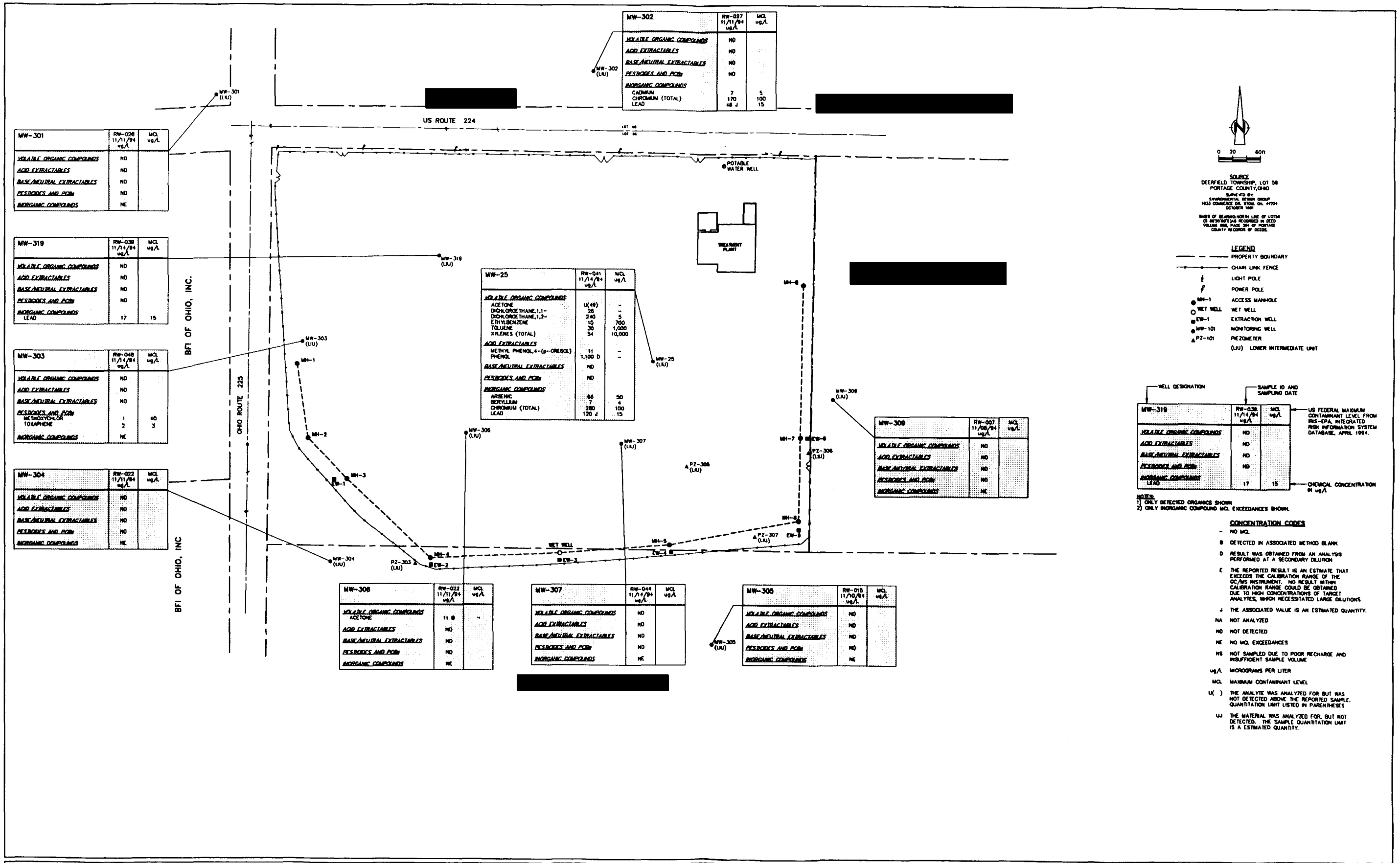
GROUNDWATER QUALITY MONITORING

UPPER INTERMEDIATE UNIT

CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: JRV	Scale: 1"=60'	Date: JANUARY 1995	File No: P-02	Rev. No: 0
Designed by: RB	Field book:	Project No: 6029	Drawing No: UIU	
Checked by: SAW				

JAN 31/95(V)



MW-302	RW-027 11/11/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS		
CADMIUM	7	5
CHROMIUM (TOTAL)	170	100
LEAD	46 J	15

MW-301	RW-026 11/11/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-319	RW-038 11/14/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS		
LEAD	17	15

MW-303	RW-048 11/14/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs		
METHOXYCHLOR	1	40
TOXAPHENE	2	3
INORGANIC COMPOUNDS	NE	

MW-304	RW-022 11/11/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-25	RW-041 11/14/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS		
ACETONE	U(49)	-
DICHLOROETHANE,1,1-	26	-
DICHLOROETHANE,1,2-	240	5
ETHYLBENZENE	15	700
TOLUENE	30	1,000
XYLENES (TOTAL)	54	10,000
ACID EXTRACTABLES		
METHYL PHENOL,4-(p-CRESOL)	11	-
PHENOL	1,100 D	-
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS		
ARSENIC	66	50
BERYLLIUM	7	4
CHROMIUM (TOTAL)	280	100
LEAD	120 J	15

MW-309	RW-007 11/08/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-306	RW-022 11/11/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS		
ACETONE	11 B	-
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-307	RW-044 11/14/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-305	RW-015 11/10/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

WELL DESIGNATION — SAMPLE ID AND SAMPLING DATE

MW-319	RW-038 11/14/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS		
LEAD	17	15

US FEDERAL MAXIMUM CONTAMINANT LEVEL FROM IRIS-EPA, INTEGRATED RISK INFORMATION SYSTEM DATABASE, APRIL 1994.

CHEMICAL CONCENTRATION IN ug/L

NOTES:
1) ONLY DETECTED ORGANICS SHOWN
2) ONLY INORGANIC COMPOUND MCL EXCEEDANCES SHOWN

CONCENTRATION CODES

- NO MCL
- B DETECTED IN ASSOCIATED METHOD BLANK
- D RESULT WAS OBTAINED FROM AN ANALYSIS PERFORMED AT A SECONDARY DILUTION
- E THE REPORTED RESULT IS AN ESTIMATE THAT EXCEEDS THE CALIBRATION RANGE OF THE GC/MS INSTRUMENT. NO RESULT WITHIN CALIBRATION RANGE COULD BE OBTAINED DUE TO HIGH CONCENTRATIONS OF TARGET ANALYTES, WHICH NECESSITATED LARGE DILUTIONS.
- J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.
- NA NOT ANALYZED
- ND NOT DETECTED
- NE NO MCL EXCEEDANCES
- NS NOT SAMPLED DUE TO POOR RECHARGE AND INSUFFICIENT SAMPLE VOLUME
- ug/L MICROGRAMS PER LITER
- MCL MAXIMUM CONTAMINANT LEVEL
- U( ) THE ANALYTE WAS ANALYZED FOR BUT WAS NOT DETECTED ABOVE THE REPORTED SAMPLE QUANTITATION LIMIT LISTED IN PARENTHESES
- UJ THE MATERIAL WAS ANALYZED FOR, BUT NOT DETECTED. THE SAMPLE QUANTITATION LIMIT IS A ESTIMATED QUANTITY.

Nº	Revision	Date	Initial
0	ROUND 1 GROUNDWATER SAMPLING	JAN. 1995	SAW

Approved

SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

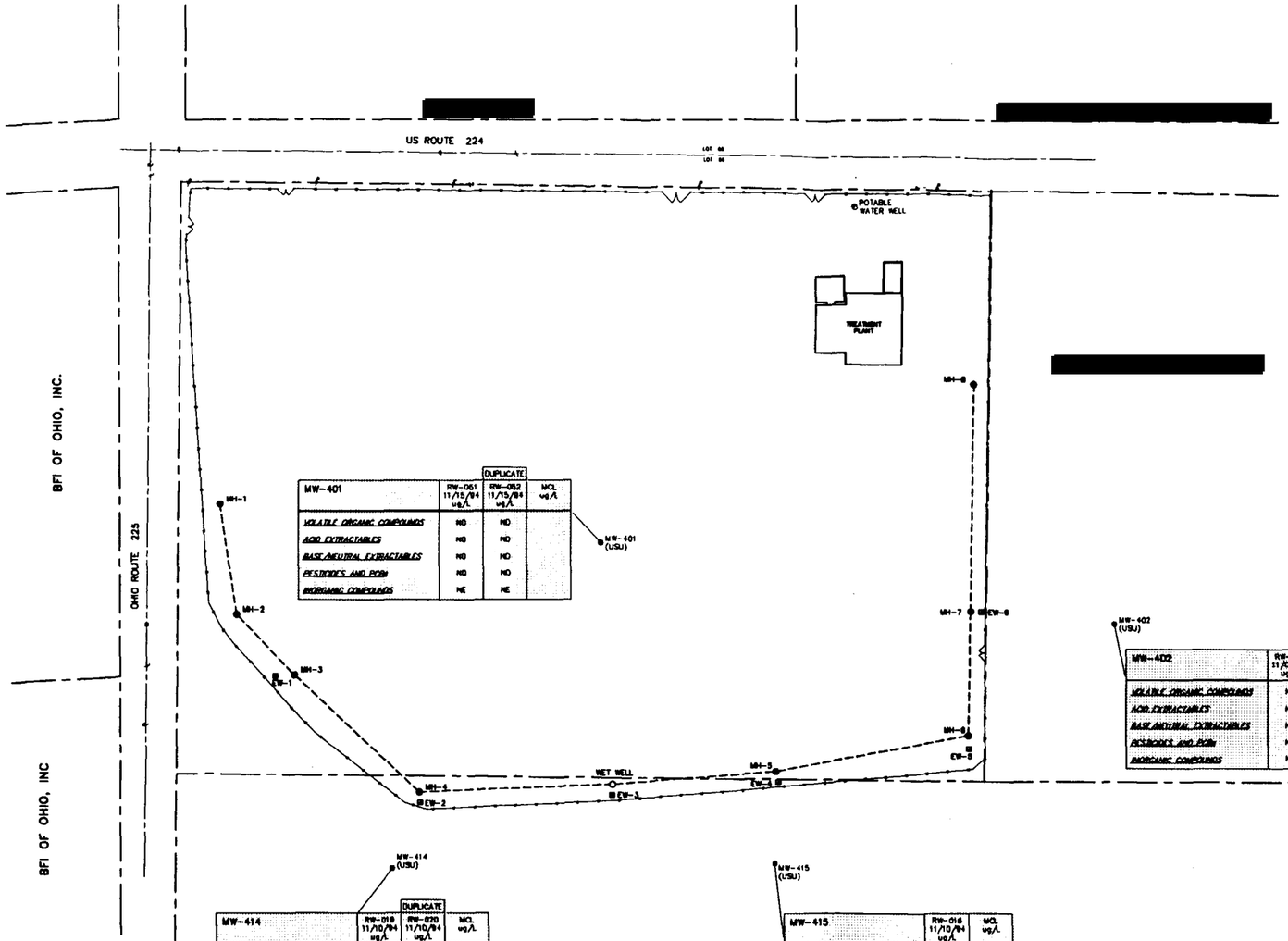
GROUNDWATER QUALITY MONITORING

LOWER INTERMEDIATE UNIT

CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: JRV	Scale: 1"=60'	Date: JANUARY 1995	File Nº: P-03	Rev. Nº: 0
Designed by: RB	Field book:	Project Nº: 6029	Drawing Nº: LIU	
Checked by: SAW				

JAN 31/95(W)



MW-401	RW-061 11/15/94 ug/L	DUPLICATE RW-062 11/15/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	ND	
ACID EXTRACTABLES	ND	ND	
BASE/NEUTRAL EXTRACTABLES	ND	ND	
PESTICIDES AND PCBs	ND	ND	
INORGANIC COMPOUNDS	NE	NE	

MW-402	RW-008 11/08/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

MW-414	RW-019 11/10/94 ug/L	DUPLICATE RW-020 11/10/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	ND	
ACID EXTRACTABLES	ND	ND	
BASE/NEUTRAL EXTRACTABLES	ND	ND	
PESTICIDES AND PCBs	ND	ND	
INORGANIC COMPOUNDS CADMIUM	5	6	5

[redacted]

MW-415	RW-016 11/10/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

0 20 60ft

SOURCE
DEERFIELD TOWNSHIP, LOT 58
PORTAGE COUNTY, OHIO
SURVEYED BY:
ENVIRONMENTAL DESIGN GROUP
1633 OBANERCE DR. STOW OH. 44224
OCTOBER 1987

BASIS OF BEARING: NORTH LINE OF LOT 58 (S 88°38'00"E) AS RECORDED IN DEED VOLUME 988, PAGE 301 OF PORTAGE COUNTY RECORDS OF DEEDS.

LEGEND

- PROPERTY BOUNDARY
- CHAIN LINK FENCE
- LIGHT POLE
- POWER POLE
- MH-1 ACCESS MANHOLE
- WET WELL WET WELL
- EW-1 EXTRACTION WELL
- MW-101 MONITORING WELL
- (USU) UPPER SHARON UNIT

WELL DESIGNATION — SAMPLE ID AND SAMPLING DATE — SAMPLE ID AND SAMPLING DATE DUPLICATE

MW-414	RW-019 11/10/94 ug/L	DUPLICATE RW-020 11/10/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	ND	
ACID EXTRACTABLES	ND	ND	
BASE/NEUTRAL EXTRACTABLES	ND	ND	
PESTICIDES AND PCBs	ND	ND	
INORGANIC COMPOUNDS CADMIUM	5	6	5

MCL — US FEDERAL MAXIMUM CONTAMINANT LEVEL FROM IRIS-EPA, INTEGRATED RISK INFORMATION SYSTEM DATABASE, APRIL 1994.

CHEMICAL CONCENTRATION IN ug/L

NOTES:
1) ONLY DETECTED ORGANICS SHOWN
2) ONLY INORGANIC COMPOUND MCL EXCEEDANCES SHOWN.

CONCENTRATION CODES

- – NO MCL
- B DETECTED IN ASSOCIATED METHOD BLANK
- D RESULT WAS OBTAINED FROM AN ANALYSIS PERFORMED AT A SECONDARY DILUTION
- E THE REPORTED RESULT IS AN ESTIMATE THAT EXCEEDS THE CALIBRATION RANGE OF THE GC/MS INSTRUMENT. NO RESULT WITHIN CALIBRATION RANGE COULD BE OBTAINED DUE TO HIGH CONCENTRATIONS OF TARGET ANALYTES, WHICH NECESSITATED LARGE DILUTIONS.
- J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.
- NA NOT ANALYZED
- ND NOT DETECTED
- NE NO MCL EXCEEDANCES
- NS NOT SAMPLED DUE TO POOR RECHARGE AND INSUFFICIENT SAMPLE VOLUME
- ug/L MICROGRAMS PER LITER
- MCL MAXIMUM CONTAMINANT LEVEL
- U( ) THE ANALYTE WAS ANALYZED FOR BUT WAS NOT DETECTED ABOVE THE REPORTED SAMPLE QUANTITATION LIMIT LISTED IN PARENTHESES
- UJ THE MATERIAL WAS ANALYZED FOR, BUT NOT DETECTED. THE SAMPLE QUANTITATION LIMIT IS A ESTIMATED QUANTITY.

NO	Revision	Date	Initial
0	ROUND 1 GROUNDWATER SAMPLING	JAN. 1995	SAW

Approved

SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

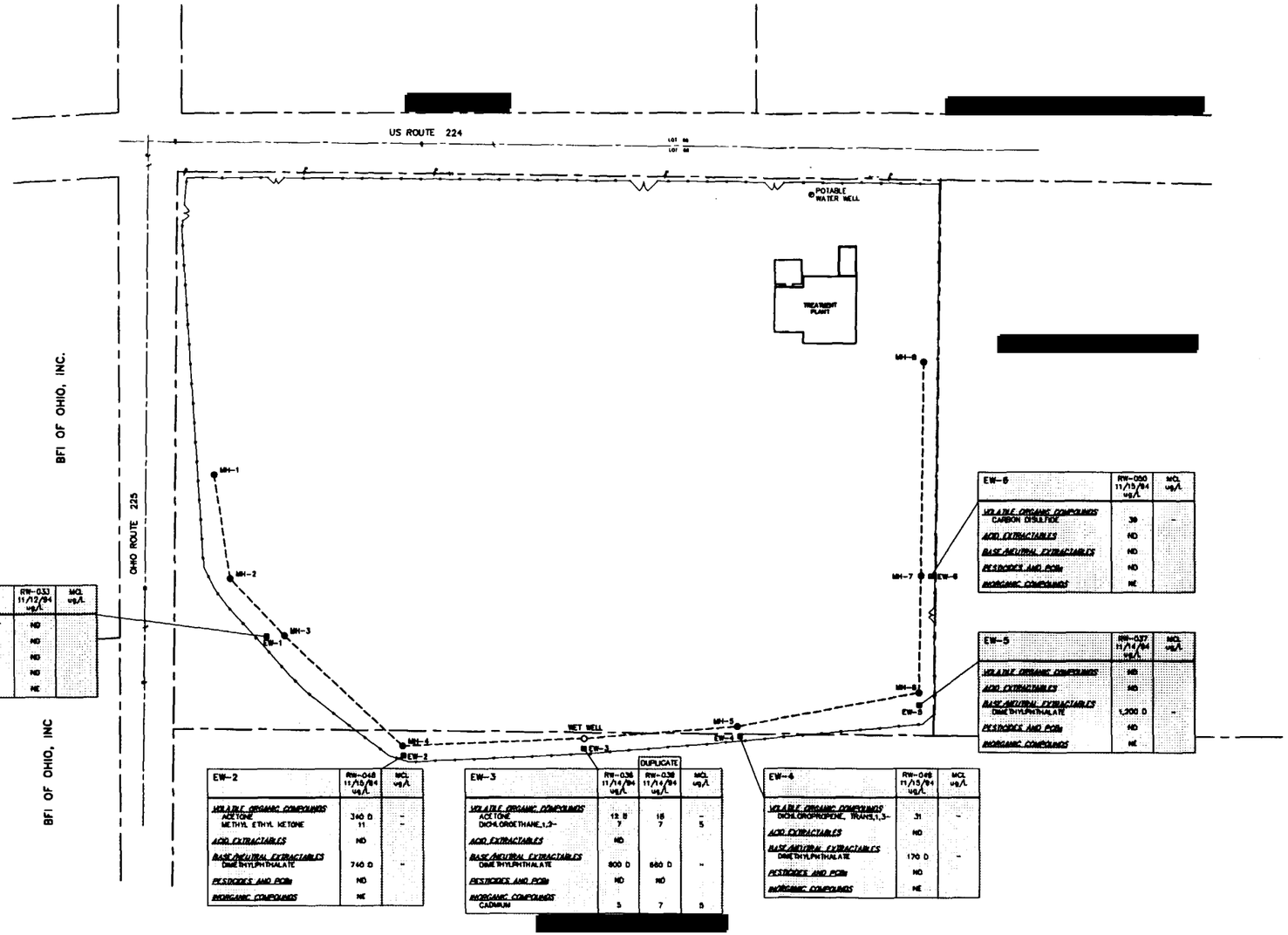
GROUNDWATER QUALITY MONITORING

UPPER SHARON UNIT

CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: JRV	Scale: 1"=60'	Date: JANUARY 1995	File No: P-04	Rev No: 0
Designed by: RB	Field book:	Project No: 6029	Drawing No: USU	
Checked by: SAW				

JAN 31/95(W)



EW-1	RW-033 11/12/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

EW-2	RW-048 11/15/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS		
ACETONE	340 D	-
METHYL ETHYL KETONE	11	-
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES		
DIMETHYLPHTHALATE	740 D	-
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

EW-3	RW-038 11/14/94 ug/L	DUPLICATE RW-038 11/14/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS			
ACETONE	12 B	18	-
DICHLOROETHANE,1,2-	7	7	5
ACID EXTRACTABLES	ND		
BASE/NEUTRAL EXTRACTABLES			
DIMETHYLPHTHALATE	800 D	680 D	-
PESTICIDES AND PCBs	ND	ND	
INORGANIC COMPOUNDS			
CADMIUM	5	7	5

EW-4	RW-049 11/15/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS		
DICHLOROPROPENE, TRANS,1,3-	.31	-
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES		
DIMETHYLPHTHALATE	170 D	-
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

EW-6	RW-050 11/15/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS		
CARBON DISULFIDE	38	-
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES	ND	
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

EW-5	RW-037 11/14/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS	ND	
ACID EXTRACTABLES	ND	
BASE/NEUTRAL EXTRACTABLES		
DIMETHYLPHTHALATE	1,300 D	-
PESTICIDES AND PCBs	ND	
INORGANIC COMPOUNDS	NE	

0 20 60ft

SOURCE
DEERFIELD TOWNSHIP, LOT 56
PORTAGE COUNTY, OHIO

SURVEYED BY:
ENVIRONMENTAL DESIGN GROUP
1633 COMMERCE DR, STOW, OH. 44224
OCTOBER 1991

BASIS OF BEARING: NORTH LINE OF LOT56 (S 88°30'00"E) AS RECORDED IN DEED VOLUME 2806, PAGE 295 OF PORTAGE COUNTY RECORDS OF DEEDS.

LEGEND

- PROPERTY BOUNDARY
- CHAIN LINK FENCE
- LIGHT POLE
- POWER POLE
- MH-1 ACCESS MANHOLE
- WET WELL WET WELL
- EW-1 EXTRACTION WELL

WELL DESIGNATION

SAMPLE ID AND SAMPLING DATE

SAMPLE ID AND SAMPLING DATE DUPLICATE

EW-3	RW-038 11/14/94 ug/L	DUPLICATE RW-038 11/14/94 ug/L	MCL ug/L
VOLATILE ORGANIC COMPOUNDS			
ACETONE	12 B	18	-
DICHLOROETHANE,1,2-	7	7	5
ACID EXTRACTABLES	ND		
BASE/NEUTRAL EXTRACTABLES			
DIMETHYLPHTHALATE	800 D	680 D	-
PESTICIDES AND PCBs	ND	ND	
INORGANIC COMPOUNDS			
CADMIUM	5	7	5

US FEDERAL MAXIMUM CONTAMINANT LEVEL FROM IRIS-EPA, INTEGRATED RISK INFORMATION SYSTEM DATABASE, APRIL 1994.

CHEMICAL CONCENTRATION IN ug/L

NOTES:
1) ONLY DETECTED ORGANICS SHOWN
2) ONLY INORGANIC COMPOUND MCL EXCEEDANCES SHOWN.

CONCENTRATION CODES

- \- NO MCL
- B DETECTED IN ASSOCIATED METHOD BLANK
- D RESULT WAS OBTAINED FROM AN ANALYSIS PERFORMED AT A SECONDARY DILUTION
- E THE REPORTED RESULT IS AN ESTIMATE THAT EXCEEDS THE CALIBRATION RANGE OF THE GC/MS INSTRUMENT. NO RESULT WITHIN CALIBRATION RANGE COULD BE OBTAINED DUE TO HIGH CONCENTRATIONS OF TARGET ANALYTES, WHICH NECESSITATED LARGE DILUTIONS.
- J THE ASSOCIATED VALUE IS AN ESTIMATED QUANTITY.
- NA NOT ANALYZED
- ND NOT DETECTED
- NE NO MCL EXCEEDANCES
- NS NOT SAMPLED DUE TO POOR RECHARGE AND INSUFFICIENT SAMPLE VOLUME
- ug/L MICROGRAMS PER LITER
- MCL MAXIMUM CONTAMINANT LEVEL
- U( ) THE ANALYTE WAS ANALYZED FOR BUT WAS NOT DETECTED ABOVE THE REPORTED SAMPLE QUANTITATION LIMIT LISTED IN PARENTHESES
- UJ THE MATERIAL WAS ANALYZED FOR, BUT NOT DETECTED. THE SAMPLE QUANTITATION LIMIT IS A ESTIMATED QUANTITY.

#	Revision	Date	Initial
0	ROUND 1 GROUNDWATER SAMPLING	JAN. 1995	SAW

Approved

SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

GROUNDWATER QUALITY MONITORING

EXTRACTION WELLS

CRA
CONESTOGA-ROVERS & ASSOCIATES

Drawn by: JRV	Scale: 1"=60'	Date: JANUARY 1995	File No: P-05	Rev. No: 0
Designed by: RB				
Checked by: SAW	Field book:	Project No: 6029	Drawing No: EW	

JAN 31/1995(9)

A

ATTACHMENT A

SUMMARY OF ROUND ONE GROUNDWATER SAMPLING FIELD ACTIVITIES

MEMO

TO: Stephen Whillier/Mike Mateyk REFERENCE NO: 6029-50

FROM: Chuck Jochems/Roger Waller DATE: December 12, 1994

RE: First Round of Groundwater Sampling
Summit National Superfund Site
Deerfield Township of Portage County, Ohio

The following is a brief summary of the Site activities associated with the First Round of Groundwater Sampling conducted from November 7 to November 17, 1994 at the Summit National Superfund Site in Deerfield Township of Portage County, Ohio.

On-Site Personnel

Field activities were conducted by CRA personnel, Roger Waller and Chuck Jochems. Mr. Anthony Rutter of the USEPA was on Site on November 16 to discuss the residential well sampling with Jeroen Winterink of CRA.

Water Levels

A complete round of water level readings were taken from all on-Site and off-Site monitoring wells on November 7 and 8, 1994 using a Solinst electronic water tape. The water tape was decontaminated between water level measurements at each monitoring well. The decontamination sequence involved first rinsing with potable water, then methanol, and final rinsing with de-ionized water. A water level reading was also taken from the potable water supply well just north of the treatment plant. The water level measurements and calculated water elevations are provided in Table 1.

Purging and Sampling of Monitoring Wells

During purging of all monitoring wells, readings of pH, specific conductivity, temperature and turbidity (dependent on field observations) were taken after the removal of each standing well volume. A summary of the well development data is provided in Table 2. The quality of the evacuated water was also noted for color, clarity and odor. All purge waters (approximately 665 gallons) from the monitoring wells were containerized and treated at the on-Site treatment plant.

Once the monitoring wells were purged, groundwater samples were collected for analysis of volatile organic compounds (VOCs), base/neutral acid extractables (BNAs), pesticides, polychlorinated biphenyls (PCBs), metals (unfiltered) and cyanide. Samples were collected for filtered metals analysis from a select number of water table unit monitoring wells. Some monitoring wells produced insufficient sample volume for the analyses of all parameters, as discussed below.

Monitoring wells that were purged using dedicated Waterra foot valves and tubing were also sampled using the dedicated Waterra equipment. Once purging of the monitoring well was completed, the tubing was drained into the well. The standing water within the well was allowed to settle so that a clear sample could be collected for VOC and metals analysis. In wells with extremely turbid groundwater, the VOC and metals samples were collected using a precleaned stainless-steel bailer as outlined in Table 2. Samples collected for filtered metals analysis were filtered through an inline 0.45 µm filter attached to the end of the Waterra tubing.

The LIU and USU monitoring wells that were purged using a precleaned 2-inch Grundfos pump with dedicated tubing were also sampled using the pump and dedicated tubing because of the depth of the wells. Once purging of the monitoring well was completed, the pump flow was reduced to minimize agitation of the groundwater for sampling purposes. It is recommended that the Site sampling QAPP be amended to allow for sampling of these deeper wells using a Grundfos pump.

Collected samples were labeled and placed in a cooler and maintained cool with ice. The samples were typically picked up daily by laboratory personnel and transported to the Haliburton NUS laboratory in Pittsburgh, Pennsylvania under chain-of-custody (COC) protocols.

Water Table Unit (WTU) Monitoring Well Sampling

All of the WTU monitoring wells, except MW106, were purged using dedicated Waterra foot valves and tubing. As shown in Table 2, at least three standing well volumes were removed from most of the WTU monitoring wells. Monitoring wells MW11 and MW116 were both purged dry after the removal of one standing well volume. After allowing these wells to recover, insufficient sample volume was available from these wells for analysis of all parameters. Monitoring well MW11 only produced sufficient sample volume for VOC, BNA, pesticide and PCB analyses. Monitoring wells MW113 and MW116 only produced sufficient sample volume for VOC and BNA analysis. Monitoring well MW110 had to be sampled over a three-day period so that sufficient sample volume could be collected for analysis of all parameters.

Monitoring well MW106 could not be sampled because sampling equipment could not be lowered into the well as the riser pipe was obstructed. The riser pipe was also at least ten feet below the top of the surface casing. A low-flow bladder pump would be recommended for future sampling of monitoring wells MW11, MW113 and MW116.

Upper Intermediate Unit (UIU) Monitoring Well Sampling

All of the UIU monitoring wells were purged using dedicated Waterra foot valves and tubing. As shown in Table 2, three standing well volumes were only removed from half of the UIU monitoring wells. Monitoring wells MW203, MW204, MW206 and MW219 were all purged dry after the removal of approximately two standing well volumes. Of these four wells, only MW206 produced insufficient sample volume after purging for

analysis of all parameters. Enough sample volume from MW206 was only collected for analysis of VOC, BNAs, pesticides and PCBs.

Lower Intermediate Unit (LIU) Monitoring Well Sampling

The LIU monitoring wells were purged using a precleaned 2-inch Grundfos pump with dedicated tubing or dedicated Waterra foot valves and tubing. As shown in Table 2, three standing well volumes were only removed from half of the LIU monitoring wells. Less than two standing well volumes were removed from monitoring wells MW302, MW303, MW307 and MW319 before they went dry. All of the LIU monitoring wells produced sufficient sample volume for analysis of all parameters.

Upper Sharon Unit (USU) Monitoring Well Sampling

The USU monitoring wells were purged using a precleaned 2-inch Grundfos pump with dedicated tubing. The four USU monitoring wells were all purged dry after less than two standing well volumes were removed. On occasion, the Grundfos pump could not be lowered past the top of the well screen due to interference from the seal within the coupling between the riser pipe and the well screen.

Extraction Well Sampling

The extraction wells were purged using the pumps installed for the extraction system. The purged groundwater discharged directly to the manhole located adjacent to each extraction well. Extraction well EW1 was the only well in which three standing well volumes were pumped continuously. Extraction wells EW3 and EW5 had a recharge time of approximately 3.5 hours while extraction wells EW2, EW4 and EW6 all had a recharge time of 24 hours.

These wells were sampled from the sample ports located in the manholes adjacent to each extraction well. Because the groundwater became agitated through the sample ports on some of the extraction wells, samples for VOC analysis were collected using a precleaned stainless-steel bailer. The remainder of the sample volume for the other analytical parameters was collected from the sample port.

Potable Water Supply Well Sampling

The potable water supply well for the on-Site treatment plant was also sampled for the same parameters as the monitoring wells. The potable water supply was allowed to run for approximately two hours so that a representative sample of the groundwater could be taken. The sample was then collected from a tap adjacent to the small water holding tank within the treatment plant.

Residential Well Sampling

Residential well sampling activities were completed on November 16 and 17, 1994. Mr. Anthony Rutter of the USEPA met with Jeroen Winterink of CRA to discuss which

residential wells were to be sampled. USEPA decided that three residential wells to the east of the Site should be sampled, because many of the adjacent properties to the Site have cisterns for a potable water supply.

Potable water supply wells were sampled at the following residents: [redacted] (located directly east and adjacent to the Site); [redacted] (located directly east and adjacent to [redacted] property), and; [redacted] (first property on the north side of Route 224 approximately 1/2 mile east of the Site). None of these domestic water supplies had any form of water treatment (i.e., water softener). The domestic water systems of the first two residents were purged by running the kitchen faucet and flushing the toilet several times. The water was allowed to run for a minimum period of 15 minutes. The aerator on the kitchen tap was removed prior to sampling. The domestic water system from the third resident was purged by running a faucet in the basement adjacent to the water holding tank for a minimum period of 15 minutes.

Field QA/QC Program

Field QA/QC samples collected during the first round of groundwater sampling included a total of five blind field duplicates, four field blanks, and two stainless steel bailer rinsate blanks. A sample key is provided in Table 3 listing the analyses requested for each monitoring well sample and which COC each sample was shipped under.

Surveying

The well locations were surveyed by a State licensed land surveyor on November 16, 1994. Aside from the well locations, elevations of the riser pipe, top of the surface casing and ground surface were also surveyed.

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Field QA/QC Program

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Surveying

The well locations were surveyed by a State licensed land surveyor on November 16, 1994. Aside from the well locations, elevations of the riser pipe, top of the surface casing and ground surface were also surveyed.

TABLE 1

WATER LEVELS (NOVEMBER 7, 1994)
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Well ID	*Top of Riser (ft AMSL)*	*Top of Casing (ft AMSL)*	*Measured Water Level (ft BTOR)*	*Water Elevation (ft AMSL)*	*Measured Bottom (ft BTOR)*	*Comments*
MW4	1089.27	1091.01	13.05	1077.96	26.25	Measurement from TOC
MW11	1095.99	1096.40	22.67	1073.32	26.35	
MW25	1095.55	1096.43	18.05	1077.50	56.76	
MW101	1107.26	1107.36	12.20	1095.06	24.15	
MW102	1100.01	1100.30	9.60	1090.41	21.20	
MW103	1095.99	1096.34	7.00	1088.99	19.88	
MW104	1094.34	1094.77	19.27	1075.07	25.10	
MW105	1101.10	1101.37	25.82	1075.28	28.87	
MW106	1102.77	1103.65	26.74	1076.91	35.96	Measurement from TOC
MW107	1098.75	1099.87	19.85	1078.90	32.48	
MW108	1091.85	1092.61	16.44	1075.41	18.14	
MW109	1087.30	1087.67	7.37	1079.93	10.33	
MW110	1086.86	1087.24	11.85	1075.01	15.10	
MW111	1099.52	1099.79	25.92	1073.60	29.10	
MW113	1088.41	1088.61	13.42	1074.99	16.07	
MW114	1097.10	1097.48	18.46	1078.64	21.52	
MW115	1101.81	1102.33	29.98	1071.83	41.60	
MW116	1105.34	1105.88	25.84	1079.50	26.60	
MW117	1123.79	1124.04	53.35	1070.44	61.00	
MW118	1098.38	1098.68	29.87	1068.51	37.10	
MW201	1107.18	1107.41	15.24	1091.94	63.45	
MW202	1099.34	1099.89	29.80	1069.54	49.87	
MW203	1099.34	1103.31	16.26	1087.05	53.87	Measurement from TOC
MW204	1097.82	1098.14	16.30	1081.52	46.60	
MW205	1100.88	1101.22	28.65	1072.23	43.93	
MW206	1103.62	1103.82	35.27	1068.55	64.30	Measurement from TOC
MW207	1098.70	1099.82	20.24	1078.46	50.20	
MW209	1087.73	1087.87	19.80	1067.93	60.00	
MW219	1101.39		20.20	1081.19	56.00	
MW301	1107.58	1107.89	31.95	1075.63	81.20	
MW302	1100.24	1100.51	30.84	1069.40	79.17	
MW303	1102.85	1103.17	32.74	1070.11	69.09	
MW304	1097.51	1097.88	19.95	1077.56	72.84	
MW305	1101.23	1101.95	34.35	1066.88	58.53	
MW306	1103.39	1103.69	34.78	1068.91	92.95	Measurement from TOC
MW307	1098.70	1099.34	20.64	1078.06	80.12	
MW309	1087.60	1087.88	12.77	1074.83	37.50	
MW319	1100.80		19.95	1080.85	70.15	
MW401	1099.56	1100.75	40.18	1059.38	131.00	
MW402	1089.77	1090.58	37.60	1052.17	130.00	
MW414	1096.85	1097.33	27.40	1069.45	103.75	
MW415	1102.22	1102.64	35.00	1067.22	91.00	

TABLE 1

WATER LEVELS (NOVEMBER 7, 1994)
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Well ID	*Top of Riser (ft AMSL)*	*Top of Casing (ft AMSL)*	*Measured Water Level (ft BTOR)*	*Water Elevation (ft AMSL)*	*Measured Bottom (ft BTOR)*	*Comments*
EW1	1099.96	1100.23	23.09	1076.87	70.50	
EW2	1097.80	1098.40	26.35	1071.45	68.11	
EW3	1097.81	1098.37	32.32	1065.49	89.40	
EW4	1095.15	1096.25	25.75	1069.40	88.65	
EW5	1088.87	1089.41	19.52	1069.35	70.90	
EW6	1088.80	1089.54	27.53	1061.27	110.50	
POTABLE		1101.84	101.56	1000.28	225.00	Measurement from TOC
PZ101	1101.34	1102.13	11.52	1089.82		
PZ103	1093.80	1094.13	11.29	1082.51	19.65	
PZ104	1097.44	1097.93	19.40	1078.04		
PZ105	1101.57	1102.09	20.17	1081.40		
PZ106	1102.20	1102.76	29.70	1072.50	33.92	
PZ201	1099.50	1099.88	22.54	1076.96	46.23	
PZ202	1101.44	1101.80	24.61	1077.19	55.28	Measurement from TOC
PZ203	1098.17	1098.34	24.70	1073.47	51.48	
PZ204	1095.43	1096.76	17.51	1077.92		
PZ205	1094.59	1096.99	21.85	1075.14		Measurement from TOC
PZ206	1088.31	1088.58	20.51	1067.80	99.65	
PZ207	1091.33	1091.86	19.09	1072.24	38.71	
PZ301	1099.84	1100.18	27.46	1072.38	68.37	
PZ302	1102.02	1102.41	NM			Riser 5 ft BTOC & capped
PZ303	1098.28	1098.45	29.53	1068.75	80.70	
PZ305	1095.58	1096.66	28.22	1067.36		
PZ306	1088.01	1088.26	18.70	1069.31	38.84	
PZ307	1091.39	1092.16	24.38	1067.01	70.60	
PZ-1	1101.51	1104.75	13.23	1091.52		Measurement from TOC

Notes:

(1) NM - Not measured.
(2) ft AMSL - feet above measure sea level
(3) ft BTOR - feet below top of riser
(4) TOC - Top of casing

TABLE 2

SUMMARY OF MONITORING WELL DEVELOPMENT DATA
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Well I.D.	*Date Purged*	*Well Volume*	*Purge Volume*	*Conductivity (µmhos)*	*pH*	*Temperature (°C)*	*Turbidity (NTU)*	*Water Quality*	*Purgin/Sampling Method (3)*	*Comments*
MW4	11/08/94	8.7	8.5	2,000	6.6	13.9	>200	brown, silty, no odor	Waterra/SS bailer for VOCs	good recharge
			17.0	2,000	6.6	12.8	>100			
			25.5	2,000	6.7	12.8	>100			
			Sample				145			
MW11	11/12/94	0.6	0.6	2,600	7.6	12.5	>500	dark gray, oil sheen, cloudy	Waterra/Waterra	dry after one volume
			Sample				>500			
MW25	11/14/94	27.0	22.0	1,500	9.0	13.3	>100	dark gray, slight odor	Grundfos pump with dedicated tubing/ Grundfos pump	
			Sample				>100			
MW101	11/11/94	1.9	2.0	2,100	6.8	12.9	<100	light brown, no odor	Waterra/Waterra	dry after each well volume, but will recharge
			4.0	2,200	7.0	12.5	<100			
			6.0	2,200	7.0	13.1	<100			
			8.0	2,200	7.0	13.6	<100			
			Sample				42			
MW102	11/11/94	1.9	2.0	1,800	6.8	12.6	>100	dark brown, no odor	Waterra/SS bailer for VOCs & metals	good recharge
			4.0	1,800	6.8	12.3	>100			
			6.0	1,800	6.8	12.6	>100			
			8.0	1,900	6.8	10.3	>100			
			10.0	1,800	6.8	10.3	>100			
			Sample				58			
MW103	11/11/94	2.1	2.0	1,700	7.1	12.2	>100	dark gray, no odor	Waterra/Waterra	good recharge
			4.0	1,700	7.1	12.5	>100			
			6.0	1,800	7.2	11.3	>100			
			8.0	1,700	7.1	11.6	>100			
			10.0	1,700	7.2	11.7	>100			
			Sample				180			

TABLE 2

SUMMARY OF MONITORING WELL DEVELOPMENT DATA
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Well I.D.	*Date Purged*	*Well Volume*	*Purge Volume*	*Conductivity (µmhos)*	*pH*	*Temperature (°C)*	*Turbidity (NTU)*	*Water Quality*	*Purgin/Sampling Method (3)*	*Comments*
MW104	11/11/94	0.9	1.0	2,300	7.2	12.2	>100	dark gray,	Waterra/Waterra	good recharge
			2.0	2,200	7.2	12.3	>100	no odor		
			3.0	2,200	7.2	12.6	>100			
			4.0	2,200	7.2	12.6	>100			
			5.0	2,200	7.1	12.4	>100			
MW105	11/07/94	0.5	0.5	2,100	6.3	12.3	>500	brown, no odor	Waterra/Waterra	good recharge
			1.0	2,600	6.2	12.4	>200			
			1.5	2,800	6.2	12.3	>100			
			2.0	2,800	6.2	12.4	>100			
			2.5	2,900	6.1	12.2	>50	cloudy, yet		
			Sample				42	translucent		
MW107	11/13/94	2.1	2.0	2,800	7.1	11.5	>500	very turbid,	Waterra/Waterra	good recharge
			4.0	2,800	7.0	12.0	>500	strong odor		
			6.0	2,900	7.0	12.2	>500			
MW108	11/09/94	0.3	0.3	2,400	7.8	13.0	>100	dark gray,	Waterra/Waterra	purged dry each
			0.6	2,400	7.9	13.1	>100	no odor		volume, but will
			0.9	2,400	7.9	12.6	>100			recharge
			1.2	2,400	7.8	13.0	>100			
MW109	11/08/94	0.5	0.5	2,000	7.0	13.7	>100	cloudy, no odor	Waterra/Waterra	purged dry after
			1.0	2,100	7.0	13.8	>200	brown, silty		3 volumes, slow
			1.5	2,100	6.8	14.5	>200			recharge
			Sample				30			
MW110	11/08/94	0.5	0.5	700	6.9	12.2	<100	slightly cloudy,	Waterra/Waterra	purged dry after
			1.0	700	6.9	12.4	<100	no odor		3 volumes, but
			1.5	700	6.9	12.4	<100			will recharge

TABLE 2

SUMMARY OF MONITORING WELL DEVELOPMENT DATA
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Well I.D.	*Date Purged*	*Well Volume*	*Purge Volume*	*Conductivity (µmhos)*	*pH*	*Temperature (°C)*	*Turbidity (NTU)*	*Water Quality*	*Purgin/Sampling Method (3)*	*Comments*
MW111	11/07/94	0.5	0.5	2,500	6.2	12.0	>100	brown, cloudy,	Waterra/Waterra	good recharge
			1.0	2,700	6.5	12.4	>100	no odor		
			1.5	2,700	6.4	12.2	>100			
			2.0	2,700	6.3	12.3	>100	cloudy, yet		
			2.5	2,700	6.4	12.3	66	translucent		
MW113	11/09/94	0.4	0.5	3,100	7.9	14.2	>100	brown, cloudy,	Waterra/Waterra	purged dry after
			1.0	3,100	7.2	14.7	>100	no odor		each volume, but
			1.5	3,100	7.9	14.0	>100			will recharge
			2.0	3,100	7.8	14.4	>100			
MW114	11/10/94	0.5	0.5	2,800	4.6	14.1	>100	light gray,	Waterra/Waterra	purged dry after
			1.0	2,700	4.7	13.3	>100	no odor		each volume,
			1.5	2,800	6.7	15.8	>100			slow recharge
			2.0	2,700	6.4	14.1	>100			
			2.5	2,700	6.3	14.8	>100			
			3.0	2,600	6.2	13.3	42			
MW115	11/10/94	1.9	2.0	2,200	7.9	11.2	>500	dark gray,	Waterra/Waterra	good recharge
			4.0	2,200	8.0	11.3	>500	silty, faint odor		
			6.0	2,200	8.0	11.2	>500			
			Sample				58			
MW116	11/09/94	0.1	0.2	2,700	8.1	12.2	>200	brown, cloudy	Waterra/Waterra	purged dry after 2 volumes, very slow recharge

TABLE 2

SUMMARY OF MONITORING WELL DEVELOPMENT DATA
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Well I.D.	*Date Purged*	*Well Volume*	*Purge Volume*	*Conductivity (µmhos)*	*pH*	*Temperature (°C)*	*Turbidity (NTU)*	*Water Quality*	*Purgin/Sampling Method (3)*	*Comments*
MW117	11/09/94	1.25	1.25	2,600	7.9	12.4	>500	black, cloudy, slight odor	Waterra/Waterra	good recharge
			2.50	2,600	7.9	12.1	>500			
			3.75	2,700	7.9	12.2	>500			
			5.00	2,600	7.9	12.0	>500			
			Sample				67			
MW118	11/08/94	1.2	1.2	2,100	6.7	10.7	>200	brown to black, silty, no odor	Waterra/Waterra	good recharge
			2.4	2,200	6.7	10.5	>300			
			3.6	2,100	6.7	10.5	>300			
			4.8	2,100	6.7	10.5	>300			
			6.0	2,000	6.7	10.5	>300	silty, yet translucent		
			Sample				54			
MW201	11/11/94	7.7	7.5	3,100	7.1	12.5	<100	brown, no odor	Waterra/Waterra	good recharge
			15.0	3,100	7.3	12.3	<100			
			22.5	3,200	7.4	12.7	<100			
			Sample				34			
MW202	11/11/94	3.2	3.0	1,800	7.3	11.2	>200	dark gray, cloudy, with H2S odor	Waterra/Waterra	good recharge
			6.0	2,000	7.4	11.0	>200			
			9.0	1,800	7.6	11.0	>200			
			Sample				134			
MW203	11/13/94	6.1	6.0	2,500	7.7	12.6	>200	gray, cloudy	Waterra/Waterra	purged dry after 2 volumes, but will recharge
			12.0	2,700	7.7	12.5	>500			
			Sample				350			
MW204	11/10/94	4.9	5.0	1,700	7.0	11.7	>100	light gray, no odor	Waterra/Waterra	purged dry after 2 volumes, slow recharge
			10.0	---	---	---	---			
			Sample				500			

TABLE 2

SUMMARY OF MONITORING WELL DEVELOPMENT DATA
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Well I.D.	*Date Purged*	*Well Volume*	*Purge Volume*	*Conductivity (µmhos)*	*pH*	*Temperature (°C)*	*Turbidity (NTU)*	*Water Quality*	*Purgin/Sampling Method (3)*	*Comments*
MW205	11/09/94	3.9	4.0	2,300	7.9	11.3	<50	light brown, no odor	Waterra/Waterra	good recharge
			8.0	2,400	7.9	11.6	30			
			12.0	2,400	7.8	11.5	35			
			Sample				48			
MW206	11/14/94	4.6	4.6	1,700	8.4	13.5	>100	gray, no odor	Waterra/Waterra	purged dry after almost 2 volumes
			8.0	1,900	8.2	13.3	>100			
MW207	11/13/94	4.8	5.0	2,300	7.3	11.5	>200	brown, cloudy	Waterra/Waterra	good recharge
			10.0	2,400	7.0	11.7	>200			
			15.0	2,300	7.0	11.6	>200			
			Sample				35			
MW209	11/08/94	6.4	6.5	1,800	6.9	12.1	<100	gray, faint odor	Waterra/Waterra	purged dry after each volume, but will recharge
			13.0	1,900	7.2	12.4	<100	brown, cloudy, slight odor		
			19.5	2,000	7.3					
MW219	11/14/94	5.7	5.7	1,800	7.5	12.4	>100	dark gray, slight odor	Waterra/Waterra	purged dry, will recharge
			7.0	1,700	7.5	12.2	>100			
MW301	11/11/94	7.9	8.0	2,700	7.2	13.0	19	clear, no odor	Grundfos pump with dedicated tubing/ Grundfos pump	good recharge
			16.0	2,700	7.2	13.0	12			
			25.0	2,700	7.2	12.8	11			
MW302	11/11/94	7.7	7.5	1,200	7.8	12.0	>200	slighty cloudy, brown to gray, H2S odor	Grundfos pump with dedicated tubing/ Grundfos pump	purged dry after approx. 2 volume
			14.0	1,400	7.8	12.5	>200			

TABLE 2

SUMMARY OF MONITORING WELL DEVELOPMENT DATA
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Well I.D.	*Date Purged*	*Well Volume*	*Purge Volume*	*Conductivity (µmhos)*	*pH*	*Temperature (°C)*	*Turbidity (NTU)*	*Water Quality*	*Purgin/Sampling Method (3)*	*Comments*
MW303	11/13/94	5.9	6.0	2,400	7.8	12.0	>200	gray, cloudy,	Waterra/Waterra	purged dry after
			10.0	2,300	7.7	12.0	>500	H2S odor		10 gallon, but
			Sample				83			will recharge
MW304	11/11/94	8.3	8.0	3,100	7.4	11.6	15	clear, no odor	Grundfos pump with	will recharge,
			16.0	3,300	7.6	12.4			dedicated tubing/	pump slowly
			24.0	3,300	7.6	12.5			Grundfos pump	
MW305	11/09/94	5.4	5.5	2,400	8.1	11.7	128	slightly cloudy,	Waterra/Waterra	good recharge
			11.0	2,500	8.1	11.7	78	no odor		
			16.5	2,500	8.0	11.7	39			
			Sample				50			
MW306	11/14/94	12.7	13.0	1,700	8.0	13.3	50	light tan,	Grundfos pump with	good recharge
			26.0	1,700	7.9	13.0	26	H2S odor	dedicated tubing/	
			39.0	1,700	7.9	13.3	15		Grundfos pump	
MW307	11/13/94	10.0	10.0	1,900	7.8	11.0	>500	dark gray,	Waterra/Waterra	purged dry after
			14.0	1,900	7.8	11.0	>500	slight odor		14 gallon, but
			Sample				120			will recharge
MW309	11/08/94	4.0	4.0	2,600	6.8	12.5	<100	clear, strong	Waterra/Waterra	purged dry after
			8.0	2,700	7.0	13.3	<100	odor		each volume, but
			12.0	2,700	6.8	13.6	<100			will recharge
			Sample				84			
MW319	11/14/94	8.0	8.0	1,200	8.9	13.0	<100	light gray,	Grundfos pump with	purged dry after
			10.0	---	---	---	---	slight odor	dedicated tubing/	10 gallons
									Grundfos pump	

TABLE 2

SUMMARY OF MONITORING WELL DEVELOPMENT DATA
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Well I.D.	*Date Purged*	*Well Volume*	*Purge Volume*	*Conductivity (µmhos)*	*pH*	*Temperature (°C)*	*Turbidity (NTU)*	*Water Quality*	*Purgin/Sampling Method (3)*	*Comments*
MW401	11/14/94	60.0	60.0 96.0 Sample	1,500 --- 	8.7 --- 	13.5 --- 	<100 --- 95	light gray, slight odor	Grundfos pump with dedicated tubing/ Grundfos pump	purged dry after 96 gallons
MW402	11/08/94	60.0	60.0	---	7.8	13.6	48	gray, cloudy, no odor	Grundfos pump with dedicated tubing/ Grundfos pump	purged dry after one volume, very slow recharge
MW414	11/10/94	50.0	50.0 75.0	2,100 1,900	8.0 7.8	9.5 12.0	30 ---	silty to start, then clears up, clear, no odor	Grundfos pump with dedicated tubing/ Grundfos pump	purged dry after 75 gallons, will recharge
MW415	11/09/94	37.0	35.0	1,900	9.3	12.0	28	gray, silty, with black silt, but clears up, H2S odor	Grundfos pump with dedicated tubing/ SS bailer for VOCs	purged dry after 45 gallons, slow recharge
EW1	11/12/94	70.0	70.0 140.0 210.0 Sample	2,400 2,400 2,400 	7.3 7.2 7.1 	11.7 11.6 11.6 	160 72 45 26	slightly cloudy, no odor	dedicated pump/ SS bailer for VOCs	good recharge, 3 volumes pumped continuously
EW2	11/12/94 11/13/94 11/14/94	62.0	60.0 120.0 180.0	2,700 2,500 2,600	7.0 7.2 7.0	13.1 13.6 ---	120 80 45	slightly cloudy, no odor	dedicated pump/ SS bailer for VOCs	purged dry after one volume, 24 hr recharge
EW3	11/12/94 11/12/94 11/13/94	84.0	85.0 170.0 255.0	2,400 2,100 2,100	7.2 7.3 7.3	12.1 11.7 13.1	120 70 78	slightly cloudy, strong odor	dedicated pump/ SS bailer for VOCs	purged dry after one volume, 3.5 hr recharge

TABLE 2

SUMMARY OF MONITORING WELL DEVELOPMENT DATA
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Well I.D.	*Date Purged*	*Well Volume*	*Purge Volume*	*Conductivity (µmhos)*	*pH*	*Temperature (°C)*	*Turbidity (NTU)*	*Water Quality*	*Purgin/Sampling Method (3)*	*Comments*
EW4	11/12/94	93.0	90.0	2,400	7.2	12.9	150	slightly cloudy	dedicated pump/ SS bailer for VOCs	purged dry after one volume, 24 hr recharge
	11/13/94		180.0	2,500	7.2	14.3	62			
	11/14/94		270.0	2,400	7.5	14.3	18			
EW5	11/12/94	76.0	75.0	2,400	7.3	11.8	380	cloudy, no odor	dedicated pump/ SS bailer for VOCs	purged dry after one volume, 3.5 hr recharge
	11/12/94		150.0	2,400	7.3	11.4	215			
	11/13/94		225.0	2,400	7.2	13.0	63			
EW6	11/12/94	123.0	125.0	2,400	8.6	12.2	12	clear, no odor	dedicated pump/ SS bailer for VOCs	purged dry after one volume, 24 hr recharge
	11/13/94		250.0	2,500	8.9	12.8	13			
	11/14/94		375.0	2,500	9.0	---	14			
Potable Water Supply Well	11/12/94	N/A	N/A	2,400	7.8	12.0	0.7	clear, H2S odor	ran water for 2 hrs/ sampled from faucet	

Notes:

(1) --- No reading.
(2) N/A - Not applicable.
(3) Parameters not listed as sampled using a stainless-stell (SS) bailer, were sampled using the same equipment which was used to purge the well.

TABLE 3

SAMPLE KEY
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample Designation	*Date Sampled*	*Time Sampled*	*Well ID*	*Analyses Requested*	*COC Record*	*Comments*
GW-110894-RW-001 MS/MSD	11/08/94	15:15	MW4	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4342/4343	
GW-110894-RW-002	11/08/94	16:00	MW118	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4342	
GW-110894-RW-003A	11/08/94	16:20	MW110	VOCs, Pesticides, PCBs	4345/4350	
GW-110994-RW-003B	11/09/94	07:30		BNAs, Metals (UF)	4350	
GW-111194-RW-003C	11/11/94	06:50		Cyanide (Total)	4352	
GW-110894-RW-004	11/08/94	16:45	MW109	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4350	
GW-110894-RW-005 (DUP-004)	11/08/94	16:45	MW109	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4341	
GW-110894-RW-006	11/08/94	17:00	MW309	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4341	
GW-110894-RW-007	11/08/94	17:15	MW209	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4350/4345	
GW-110994-RW-008	11/09/94	07:40	MW402	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4350/4345	
GW-110994-RW-009A	11/09/94	08:00	MW105	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4350/4345	
GW-110994-RW-009B	11/10/94	07:45		Metals (F)	4347	
GW-110994-RW-010	11/09/94	08:30	MW111	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4350/4347	
GW-111094-RW-011	11/10/94	08:30	MW115	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4350/4348	
GW-111094-RW-012A	11/10/94	09:05	MW116	VOCs	4350	
GW-111094-RW-013	11/10/94	09:30	MW117	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4350/4349	
GW-111094-RW-013B	11/11/94	08:15		Metals (F)	4352	
GW-111094-RW-014	11/10/94	10:05	MW205	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4350/4349	
GW-111094-RW-015	11/10/94	10:15	MW305	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4350/4348	
GW-111094-RW-016	11/10/94	10:50	MW415	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4350/4352	
GW-111194-RW-016B	11/16/94	12:00		VOCs	4366	
TRIP BLANK	11/10/94	---	TB	VOCs	4350	Trip Blank
GW-111094-RW-017	11/10/94	11:45	MW108	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4352	
GW-111194-RW-017B	11/11/94	07:00		Metals (F)	4352	
GW-111094-RW-018A	11/10/94	12:00	MW113	VOCs	---	
GW-111294-RW-018B	11/12/94	09:40		BNAs	4353	
GW-111094-RW-019	11/10/94	16:50	MW414	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4352	
GW-111094-RW-020 (DUP-019)	11/10/94	17:00	MW414	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4352	
GW-111194-RW-021	11/11/94	08:45	MW204	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4352	
GW-111194-RW-022 MS/MSD	11/11/94	09:45	MW304	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4352	
TRIP BLANK	11/11/94	---	TB	VOCs	4352	Trip Blank

TABLE 3

SAMPLE KEY
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample Designation	*Date Sampled*	*Time Sampled*	*Well ID*	*Analyses Requested*	*COC Record*	*Comments*
GW-111194-RW-023	11/11/94	13:20	MW104	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4352	
GW-111194-RW-024	11/11/94	13:30	MW103	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4352	
GW-111194-RW-025	11/11/94	14:00	FB	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4352	Field Blank
GW-111194-RW-026	11/11/94	15:20	MW301	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4353	
GW-111194-RW-027	11/11/94	16:20	MW302	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4353	
GW-111294-RW-028	11/12/94	07:35	MW201	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4353	
GW-111294-RW-029	11/12/94	07:45	MW101	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4353	
GW-111294-RW-030	11/12/94	08:05	RB	VOCs	4353	Rinsate Blank
GW-111294-RW-031	11/12/94	08:10	MW102	VOCs, BNAs, Pesticides, PCBs, Metals (UF&F), Cyanide (Tot	4353	
GW-111294-RW-032	11/12/94	08:30	MW202	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4353	
GW-111294-RW-033	11/12/94	10:35	EW1	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4353	Held VOCs
GW-111594-RW-033B	11/15/94	07:50		VOCs	4364	SS Bailer
GW-111294-RW-034	11/12/94	11:30	Potable	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4353	Potable Water Supply Well
GW-111294-RW-035	11/12/94	16:00	FB	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4353	Field Blank
GW-111494-RW-036	11/14/94	08:00	EW3	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4353	Held VOCs
GW-111594-RW-036B	11/15/94	08:20		VOCs	4364	SS Bailer
GW-111494-RW-037	11/14/94	08:15	EW5	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4353	Held VOCs
GW-111594-RW-037B	11/15/94	08:45		VOCs	4364	SS Bailer
GW-111494-RW-038 (DUP-036)	11/14/94	08:30	EW3	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4353	Held VOCs
GW-111594-RW-038B (DUP-036B)	11/15/94	09:00		VOCs	4364	SS Bailer
TRIP BLANK	11/14/94	---	TB	VOCs	4353	Trip Blank
GW-111494-RW-039	11/14/94	12:00	MW319	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4364	
GW-111494-RW-040	11/14/94	13:00	MW206	VOCs, BNAs, Pesticides, PCBs	4364	
GW-111494-RW-041	11/14/94	14:00	MW25	VOCs, BNAs, Pesticides, PCBs, Metals (UF)	4364/4365	Added BNAs and
GW-111594-RW-041B	11/15/94	10:40		Cyanide (Total)	4365	Pest/PCBs to COC
GW-111494-RW-042	11/14/94	15:55	MW207	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4364	
GW-111494-RW-043	11/14/94	16:20	MW11	VOCs, BNAs, Pesticides, PCBs	4364	
GW-111494-RW-044	11/14/94	16:30	MW307	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4364	
GW-111494-RW-045	11/14/94	16:45	MW203	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4364	
GW-111494-RW-046	11/14/94	17:00	MW303	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4364	
TRIP BLANK	11/15/94	---	TB	VOCs	4364	Trip Blank

TABLE 3

SAMPLE KEY
FIRST ROUND OF GROUNDWATER SAMPLING
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample Designation	*Date Sampled*	*Time Sampled*	*Well ID*	*Analyses Requested*	*COC Record*	*Comments*
GW-111594-RW-047	11/15/94	07:00	RB	VOCs	4365	Rinsate Blank
GW-111594-RW-048	11/15/94	08:05	EW2	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4365	
GW-111594-RW-049	11/15/94	08:30	EW4	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4365	
GW-111594-RW-050	11/15/94	08:55	EW6	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4365	
GW-111694-RW-050B MS/MSD	11/16/94	08:50		VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4366	
GW-111594-RW-051	11/15/94	12:00	MW401	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4365	
GW-111594-RW-052 (DUP-051)	11/15/94	12:10	MW401	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4365	
GW-111594-RW-053	11/15/94	12:15	FB	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4365	Field Blank
GW-111594-RW-054	11/15/94	14:30	MW306	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4365	
GW-111594-RW-055	11/15/94	15:30	MW219	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4365	
GW-111494-RW-056	11/14/94	14:30	MW107	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4365	
GW-111594-RW-056B	11/15/94	16:15	MW107	Metals (F)	4366	
GW-111594-RW-057	11/15/94	17:10	Private	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4365	[redacted] Well
GW-111594-RW-058 (DUP-057)	11/15/94	17:20		VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4365	
GW-111594-RW-059	11/15/94	17:30	FB	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4365	Field Blank
GW-111694-RW-060	11/16/94	08:30	MW114	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4366	
GW-111694-RW-061	11/16/94	10:50	Private	VOCs, BNAs, Pesticides, PCBs, Metals (UF)	4366	[redacted] Residence Well
TRIP BLANK	11/16/94	---	TB	VOCs	4366	Trip Blank
GW-111794-RW-061B	11/17/94	11:00	Private	Cyanide (Total)	4367	[redacted] Residence Well
GW-111794-RW-062	11/17/94	10:45	Private	VOCs, BNAs, Pesticides, PCBs, Metals (UF), Cyanide (Total)	4367	[redacted] Residence Well
TRIP BLANK	11/17/94	---	TB	VOCs	4367	Trip Blank

B

ATTACHMENT B

GROUNDWATER ANALYTICAL RESULTS

Table 1

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		[redacted]	[redacted]	[redacted]	[redacted]	POTABLE
Sample ID:		CJ-062	CJ-061B	RW-057	RW-058	RW-034
Date Sampled		11/17/94	11/17/94	11/15/94	11/15/94	11/12/94
					Dupl.	
Parameters	Units					
Volatile Organic Compounds						
ACETONE	ug/L	ND(10)	ND(10) UJ	ND(10)	ND(10)	ND(10)
BENZENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
BROMODICHLOROMETHANE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
BROMOFORM	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
BROMOMETHANE	ug/L	ND(10)	ND(10) UJ	ND(10)	ND(10)	ND(10)
CARBON DISULFIDE	ug/L	ND(5) UJ	ND(5) UJ	ND(5) UJ	ND(5) UJ	ND(5)
CARBON TETRACHLORIDE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
CHLOROBENZENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
CHLOROETHANE	ug/L	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(10)
CHLOROFORM	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
CHLOROMETHANE	ug/L	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(10)
DIBROMOCHLOROMETHANE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,1-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,2-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,1-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,2-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
DICHLOROPROPANE, 1,2-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, CIS 1,3-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, TRANS 1,3-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
ETHYLBENZENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
HEXANONE, 2-	ug/L	ND(10) UJ	ND(10) UJ	ND(10)	ND(10)	ND(10)
METHYL ETHYL KETONE	ug/L	ND(10) UJ	ND(10) UJ	ND(10)	ND(10)	ND(10)
METHYL ISOBUTYL KETONE	ug/L	ND(10)	ND(10) UJ	ND(10)	ND(10)	ND(10)
METHYLENE CHLORIDE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
STYRENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
TETRACHLOROETHANE, 1,1,2,2-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
TETRACHLOROETHYLENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
TOLUENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
TRICHLOROETHANE, 1,1,1-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
TRICHLOROETHANE, 1,1,2-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)

Table 1

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		[redacted]	[redacted]	[redacted]	[redacted]	POTABLE
Sample ID:		CJ-062	CJ-061B	RW-057	RW-058	RW-034
Date Sampled		11/17/94	11/17/94	11/15/94	11/15/94	11/12/94
					Dupl.	
Parameters	**Units**					
Volatile Organic Compounds (Cont'd)						
TRICHLOROETHYLENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
VINYL CHLORIDE	ug/L	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(10)
XYLENES (TOTAL)	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
Acid Extractables						
2,4,6-TRICHLOROPHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-NITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
CHLOROPHENOL, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROPHENOL, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYLPHENOL, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROPHENOL, 2,4-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
METHYL PHENOL, 2- (o-CRESOL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL PHENOL, 4- (p-CRESOL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROPHENOL, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PENTACHLOROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
PHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
TRICHLOROPHENOL, 2,4,5-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Base/Neutral Extractables						
1,2,4-TRICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,2-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,3-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
2-METHYL-4,6-DINITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
3,3'-DICHLOROBENZIDINE	ug/L	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
3,4-BENZOFLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-CHLORO-3-METHYLPHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ACENAPHTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ACENAPHTHYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)

Table 1

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		C[redacted]	[redacted]	[redacted]	[redacted]	POTABLE
Sample ID:		CJ-062	CJ-061B	RW-057	RW-058	RW-034
Date Sampled		11/17/94	11/17/94	11/15/94	11/15/94	11/12/94
					Dupl.	
Parameters	Units					
Base/Neutral Extractables (Cont'd)						
ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(g,h,i)PERYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(k)FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZYL BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHOXY)METHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHYL) ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROISOPROPYL)ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BROMOPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CARBAZOLE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROANILINE, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLORONAPHTHALENE, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHRYSENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-OCTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZO(A,H)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZOFURAN	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROBENZENE, 1,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,6-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
FLUORENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBUTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROCYCLOPENTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)

Table 1

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		[redacted]	[redacted]	[redacted]	[redacted]	POTABLE
Sample ID:		CJ-062	CJ-061B	RW-057	RW-058	RW-034
Date Sampled		11/17/94	11/17/94	11/15/94	11/15/94	11/12/94
					Dupl.	
Parameters	Units					
Base/Neutral Extractables (Cont'd)						
HEXACHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
INDENO(1,2,3-CD)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ISOPHORONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
N-NITROSODIPHENYLAMINE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE, 2-METHYL-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROANILINE, 2-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 3-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 4-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROSODI-N-PROPYLAMINE, N-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PHENANTHRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Pesticides						
ALDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
CHLORDANE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHAN	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHYL	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
DICHLORODIPHENYL TRICHLOROETHA	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
DIELDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
ENDOSULFAN	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
ENDOSULFAN II	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
ENDOSULFAN SULFATE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
ENDRIN	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
ENDRIN ALDEHYDE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
ENDRIN KETONE	ug/L	NS	NS	NS	NS	NS
HEPTACHLOR	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
HEPTACHLOR EPOXIDE	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)

Table 1

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		[redacted]	[redacted]	[redacted]	[redacted]	POTABLE
Sample ID:		CJ-062	CJ-061B	RW-057	RW-058	RW-034
Date Sampled		11/17/94	11/17/94	11/15/94	11/15/94	11/12/94
					Dupl.	
Parameters	Units					
Pesticides (Cont'd)						
HEXACHLOROCYCLOHEXANE, alpha-	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
HEXACHLOROCYCLOHEXANE, beta-	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, delta-	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, gamma-	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
METHOXYCHLOR	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TOXAPHENE	ug/L	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
PCBs						
AROCLOR 1221	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1232	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1242/1016	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1248	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1254	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1260	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Inorganic Compounds						
ALUMINUM	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
ANTIMONY	ug/L	ND(7)	ND(7)	ND(6)	ND(7)	ND(7)
ARSENIC	ug/L	ND(4) UJ	ND(3)	ND(3)	ND(3)	ND(3)
BARIUM	ug/L	11	2.5	84	84	51
BERYLLIUM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CADMIUM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CALCIUM	ug/L	120000	3300	8000	8000	4200 J
CHROMIUM (TOTAL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
COBALT	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
COPPER	ug/L	3	ND(3)	ND(2)	ND(2)	4 U
IRON	ug/L	490	ND(3)	340	320	60 U
LEAD	ug/L	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ	1 J

Table 1

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		[redacted]				POTABLE
Sample ID:		CJ-062	CJ-061B	RW-057	RW-058	RW-034
Date Sampled		11/17/94	11/17/94	11/15/94	11/15/94	11/12/94
					Dupl.	
Parameters	Units					
Inorganic Compounds (Cont'd)						
MAGNESIUM, TOTAL	ug/L	45000	1200	3100	3100	1900 J
MANGANESE DISSOLVED	ug/L	NS	NS	NS	NS	NS
MERCURY	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
NICKEL DISSOLVED	ug/L	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
NICKEL TOTAL	ug/L	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
POTASSIUM	ug/L	7800	2600	4400	4500	4000
SELENIUM	ug/L	ND(7) UJ	ND(5)	ND(7)	ND(7)	ND(8) UJ
SILVER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
SODIUM	ug/L	210000	470000	780000	780000	660000
THALLIUM	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
VANADIUM	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
ZINC	ug/L	ND(10)	ND(10)	10 U	20 U	ND(10)
General Chemistry						
CYANIDE, TOTAL	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)

Table 2

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		FBLK1	FBLK2	FBLK3	FBLK4
Sample ID:		RW-025	RW-035	RW-053	RW-059
Sample Date:		11/11/94	11/12/94	11/15/94	11/15/94
Parameters	Units				
Volatile Organic Compounds					
ACETONE	ug/L	ND(10)	ND(10)	13 U,B	12
BENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
BROMODICHLOROMETHANE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
BROMOFORM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
BROMOMETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
CARBON DISULFIDE	ug/L	ND(5) UJ	ND(5)	ND(5)	ND(5) UJ
CARBON TETRACHLORIDE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROBENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10) UJ
CHLOROFORM	ug/L	9	ND(5)	ND(5)	6
CHLOROMETHANE	ug/L	ND(10) UJ	ND(10)	ND(10)	ND(10) UJ
DIBROMOCHLOROMETHANE	ug/L	ND(5) UJ	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPANE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, CIS 1,3-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, TRANS 1,3-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
ETHYLBENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
HEXANONE, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10) UJ
METHYL ETHYL KETONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10) UJ
METHYL ISOBUTYL KETONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
METHYLENE CHLORIDE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
STYRENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHANE, 1,1,2,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
TOLUENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
TRICHLOROETHANE, 1,1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
TRICHLOROETHANE, 1,1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)

Table 2

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		FBLK1	FBLK2	FBLK3	FBLK4
Sample ID:		RW-025	RW-035	RW-053	RW-059
Sample Date:		11/11/94	11/12/94	11/15/94	11/15/94
Parameters	Units				
Volatile Organic Compounds (Cont'd)					
TRICHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
VINYL CHLORIDE	ug/L	ND(10)	ND(10)	ND(10)	ND(10) UJ
XYLENES (TOTAL)	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
Acid Extractables					
2,4,6-TRICHLOROPHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
4-NITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
CHLOROPHENOL, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROPHENOL, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYLPHENOL, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
DINITROPHENOL, 2,4-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
METHYL PHENOL, 2- (o-CRESOL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
METHYL PHENOL, 4- (p-CRESOL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
NITROPHENOL, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
PENTACHLOROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
PHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
TRICHLOROPHENOL, 2,4,5-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
Base/Neutral Extractables					
1,2,4-TRICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
1,2-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
1,3-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
2-METHYL-4,6-DINITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
3,3'-DICHLOROBENZIDINE	ug/L	ND(20)	ND(20)	ND(20)	ND(20)
3,4-BENZOFLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
4-CHLORO-3-METHYLPHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
ACENAPHTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
ACENAPHTHYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)

Table 2

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		FBLK1	FBLK2	FBLK3	FBLK4
Sample ID:		RW-025	RW-035	RW-053	RW-059
Sample Date:		11/11/94	11/12/94	11/15/94	11/15/94
Parameters	Units				
Base/Neutral Extractables (Cont'd)					
ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(g,h,i)PERYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(k)FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
BENZYL BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHOXY)METHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHYL) ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROISOPROPYL)ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
BROMOPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
CARBAZOLE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROANILINE, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
CHLORONAPHTHALENE, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
CHRYSENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-OCTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZO(A,H)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZOFURAN	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROBENZENE, 1,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
DIETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,6-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
FLUORENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBUTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROCYCLOPENTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)

Table 2

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		FBLK1	FBLK2	FBLK3	FBLK4
Sample ID:		RW-025	RW-035	RW-053	RW-059
Sample Date:		11/11/94	11/12/94	11/15/94	11/15/94
Parameters	Units				
Base/Neutral Extractables (Cont'd)					
HEXACHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
INDENO(1,2,3-CD)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
ISOPHORONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
N-NITROSODIPHENYLAMINE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE, 2-METHYL-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
NITROANILINE, 2-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 3-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 4-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
NITROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
NITROSODI-N-PROPYLAMINE, N-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
PHENANTHRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
Pesticides					
ALDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
CHLORDANE	ug/L	NS	ND(0.1)	ND(0.1)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHAN	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHYL	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
DICHLORODIPHENYL TRICHLOROETHA	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
DIELDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
ENDOSULFAN	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
ENDOSULFAN II	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
ENDOSULFAN SULFATE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
ENDRIN	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
ENDRIN ALDEHYDE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
ENDRIN KETONE	ug/L	ND(0.1)	NS	NS	NS
HEPTACHLOR	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
HEPTACHLOR EPOXIDE	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)

Table 2

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		FBLK1	FBLK2	FBLK3	FBLK4
Sample ID:		RW-025	RW-035	RW-053	RW-059
Sample Date:		11/11/94	11/12/94	11/15/94	11/15/94
Parameters	Units				
Pesticides (Cont'd)					
HEXACHLOROCYCLOHEXANE, alpha-	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
HEXACHLOROCYCLOHEXANE, beta-	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, delta-	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, gamma-	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
METHOXYCHLOR	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TOXAPHENE	ug/L	ND(1)	ND(1)	ND(1)	ND(1)
PCBs					
AROCLOR 1221	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1232	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1242/1016	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1248	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1254	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1260	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Inorganic Compounds					
ALUMINUM	ug/L	ND(50) NR	ND(50)	ND(50)	ND(50)
ANTIMONY	ug/L	ND(7)	ND(7)	ND(6)	ND(7)
ARSENIC	ug/L	ND(3) UJ	ND(3)	ND(3)	5
BARIUM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
BERYLLIUM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
CADMIUM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
CALCIUM	ug/L	ND(100)	100 J	ND(100)	ND(100)
CHROMIUM (TOTAL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
COBALT	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
COPPER	ug/L	ND(2)	4	ND(2)	ND(2)
IRON	ug/L	ND(20)	20	ND(20)	ND(20)
LEAD	ug/L	ND(1) UJ	ND(1) UJ	ND(1) UJ	ND(1) UJ

Table 2

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		FBLK1	FBLK2	FBLK3	FBLK4
Sample ID:		RW-025	RW-035	RW-053	RW-059
Sample Date:		11/11/94	11/12/94	11/15/94	11/15/94
Parameters	Units				
Inorganic Compounds (Cont'd)					
MAGNESIUM, TOTAL	ug/L	ND(50)	ND(50) UJ	ND(50)	ND(50)
MANGANESE DISSOLVED	ug/L	NS	NS	NS	NS
MERCURY	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
NICKEL DISSOLVED	ug/L	ND(20)	ND(20)	ND(20)	ND(20)
NICKEL TOTAL	ug/L	ND(20)	ND(20)	ND(20)	ND(20)
POTASSIUM	ug/L	ND(200)	ND(200)	ND(200)	ND(200)
SELENIUM	ug/L	ND(5) UJ	ND(5) UJ	ND(5)	ND(5)
SILVER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
SODIUM	ug/L	200	300	160	1300
THALLIUM	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
VANADIUM	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
ZINC	ug/L	ND(10)	ND(10)	ND(10)	10
General Chemistry					
CYANIDE, TOTAL	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)

Table 3

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		RBLK1		RBLK2	
Sample ID:		RW-030		RW-047	
Date Sampled		11/12/94		11/15/94	
Parameters	Units				
Volatile Organic Compounds					
ACETONE	ug/L	ND(10)		14	U,B
BENZENE	ug/L	ND(5)		ND(5)	
BROMODICHLOROMETHANE	ug/L	ND(5)		ND(5)	
BROMOFORM	ug/L	ND(5)		ND(5)	
BROMOMETHANE	ug/L	ND(10)		ND(10)	
CARBON DISULFIDE	ug/L	ND(5)	UJ	ND(5)	
CARBON TETRACHLORIDE	ug/L	ND(5)		ND(5)	
CHLOROBENZENE	ug/L	ND(5)		ND(5)	
CHLOROETHANE	ug/L	ND(10)	UJ	ND(10)	
CHLOROFORM	ug/L	5		ND(5)	
CHLOROMETHANE	ug/L	ND(10)	UJ	ND(10)	
DIBROMOCHLOROMETHANE	ug/L	ND(5)		ND(5)	
DICHLOROETHANE, 1,1-	ug/L	ND(5)		ND(5)	
DICHLOROETHANE, 1,2-	ug/L	ND(5)		ND(5)	
DICHLOROETHYLENE, 1,1-	ug/L	ND(5)		ND(5)	
DICHLOROETHYLENE, 1,2-	ug/L	ND(5)		ND(5)	
DICHLOROPROPANE, 1,2-	ug/L	ND(5)		ND(5)	
DICHLOROPROPENE, CIS 1,3-	ug/L	ND(5)		ND(5)	
DICHLOROPROPENE, TRANS 1,3-	ug/L	ND(5)		ND(5)	
ETHYLBENZENE	ug/L	ND(5)		ND(5)	
HEXANONE, 2-	ug/L	ND(10)		ND(10)	
METHYL ETHYL KETONE	ug/L	ND(10)		ND(10)	
METHYL ISOBUTYL KETONE	ug/L	ND(10)		ND(10)	
METHYLENE CHLORIDE	ug/L	ND(5)		ND(5)	
STYRENE	ug/L	ND(5)		ND(5)	
TETRACHLOROETHANE, 1,1,2,2-	ug/L	ND(5)		ND(5)	
TETRACHLOROETHYLENE	ug/L	ND(5)		ND(5)	
TOLUENE	ug/L	ND(5)		ND(5)	
TRICHLOROETHANE, 1,1,1-	ug/L	ND(5)		ND(5)	
TRICHLOROETHANE, 1,1,2-	ug/L	ND(5)		ND(5)	

Table 3

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		RBLK1	RBLK2
Sample ID:		RW-030	RW-047
Date Sampled		11/12/94	11/15/94
Parameters	Units		
Volatile Organic Compounds (Cont'd)			
TRICHLOROETHYLENE	ug/L	ND(5)	ND(5)
VINYL CHLORIDE	ug/L	ND(10) UJ	ND(10)
XYLENES (TOTAL)	ug/L	ND(5)	ND(5)

Table 4

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		TBLK1	TBLK2	TBLK3	TBLK4	TBLK5	TBLK6
Date Sampled:		11/10/94	11/11/94	11/14/94	11/15/94	11/16/94	11/17/94
Parameters	Units						
Volatile Organic Compounds							
ACETONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	16 B
BENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMODICHLOROMETHANE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMOFORM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMOMETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CARBON DISULFIDE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CARBON TETRACHLORIDE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROBENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROFORM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROMETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBROMOCHLOROMETHANE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPANE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, CIS 1,3-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, TRANS 1,3-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
ETHYLBENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
HEXANONE, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL ETHYL KETONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL ISOBUTYL KETONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYLENE CHLORIDE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
STYRENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHANE, 1,1,2,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TOLUENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TRICHLOROETHANE, 1,1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TRICHLOROETHANE, 1,1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TRICHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)

Table 4

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		TBLK1	TBLK2	TBLK3	TBLK4	TBLK5	TBLK6
Date Sampled:		11/10/94	11/11/94	11/14/94	11/15/94	11/16/94	11/17/94
Parameters	Units						
Volatile Organic Compounds (Cont'd)							
VINYL CHLORIDE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
XYLENES (TOTAL)	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		EW1	EW2	EW3	EW3	EW4	EW5	EW6	MW101
Sample ID:		RW-033	RW-048	RW-036	RW-038	RW-049	RW-037	RW-050	RW-029
Date Sampled		11/12/94	11/15/94	11/14/94	11/14/94	11/15/94	11/14/94	11/15/94	11/12/94
					Dupl.				
Parameters	Units								
Volatile Organic Compounds									
ACETONE	ug/L	ND(10)	340 D	12 B	18	ND(10)	ND(10)	ND(10)	ND(10)
BENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMODICHLOROMETHANE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5) UJ
BROMOFORM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMOMETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CARBON DISULFIDE	ug/L	ND(5)	ND(5)	ND(5)	ND(5) UJ	ND(5)	ND(5) UJ	39	ND(5)
CARBON TETRACHLORIDE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROBENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROFORM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROMETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10) UJ	ND(10)	ND(10) UJ	ND(10)	ND(10)
DIBROMOCHLOROMETHANE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5) UJ
DICHLOROETHANE, 1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,2-	ug/L	ND(5)	ND(5)	7	7	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPANE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5) UJ
DICHLOROPROPENE, CIS 1,3-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, TRANS 1,3-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	31	ND(5)	ND(5)	ND(5)
ETHYLBENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
HEXANONE, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL ETHYL KETONE	ug/L	ND(10)	11	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL ISOBUTYL KETONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10) UJ
METHYLENE CHLORIDE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
STYRENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHANE, 1,1,2,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TOLUENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5) UJ
TRICHLOROETHANE, 1,1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TRICHLOROETHANE, 1,1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5) UJ

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		EW1	EW2	EW3	EW3	EW4	EW5	EW6	MW101
Sample ID:		RW-033	RW-048	RW-036	RW-038	RW-049	RW-037	RW-050	RW-029
Date Sampled		11/12/94	11/15/94	11/14/94	11/14/94	11/15/94	11/14/94	11/15/94	11/12/94
					Dupl.				
Parameters	Units								
Volatile Organic Compounds (Cont'd)									
TRICHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
VINYL CHLORIDE	ug/L	ND(10)	ND(10)	ND(10)	ND(10) UJ	ND(10)	ND(10) UJ	ND(10)	ND(10)
XYLENES (TOTAL)	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5) UJ
Acid Extractables									
2,4,6-TRICHLOROPHENOL	ug/L	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-NITROPHENOL	ug/L	ND(50)	ND(50) R	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
CHLOROPHENOL, 2-	ug/L	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROPHENOL, 2,4-	ug/L	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYLPHENOL, 2,4-	ug/L	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROPHENOL, 2,4-	ug/L	ND(50)	ND(50) R	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
METHYL PHENOL, 2- (o-CRESOL)	ug/L	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL PHENOL, 4- (p-CRESOL)	ug/L	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROPHENOL, 2-	ug/L	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PENTACHLOROPHENOL	ug/L	ND(50)	ND(50) R	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
PHENOL	ug/L	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
TRICHLOROPHENOL, 2,4,5-	ug/L	ND(50)	ND(50) R	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Base/Neutral Extractables									
1,2,4-TRICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,2-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,3-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
2-METHYL-4,6-DINITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
3,3'-DICHLOROBENZIDINE	ug/L	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
3,4-BENZOFLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-CHLORO-3-METHYLPHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ACENAPHTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ACENAPHTHYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		EW1	EW2	EW3	EW3	EW4	EW5	EW6	MW101
Sample ID:		RW-033	RW-048	RW-036	RW-038	RW-049	RW-037	RW-050	RW-029
Date Sampled		11/12/94	11/15/94	11/14/94	11/14/94	11/15/94	11/14/94	11/15/94	11/12/94
					Dupl.				
Parameters	Units								
Base/Neutral Extractables (Cont'd)									
ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(g,h,i)PERYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(k)FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZYL BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHOXY)METHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHYL) ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROISOPROPYL)ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BROMOPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CARBAZOLE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROANILINE, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLORONAPHTHALENE, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHRYSENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-OCTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZO(A,H)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZOFURAN	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROBENZENE, 1,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYL PHTHALATE	ug/L	ND(10)	740 D	1200 D	1100 D	170 D	1200 D	ND(10)	ND(10)
DINITROTOLUENE, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,6-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
FLUORENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBUTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROCYCLOPENTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		EW1	EW2	EW3	EW3	EW4	EW5	EW6	MW101
Sample ID:		RW-033	RW-048	RW-036	RW-038	RW-049	RW-037	RW-050	RW-029
Date Sampled		11/12/94	11/15/94	11/14/94	11/14/94	11/15/94	11/14/94	11/15/94	11/12/94
					Dupl.				
Parameters	Units								
Base/Neutral Extractables (Cont'd)									
HEXACHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
INDENO(1,2,3-CD)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ISOPHORONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
N-NITROSODIPHENYLAMINE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE, 2-METHYL-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROANILINE, 2-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 3-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 4-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROSODI-N-PROPYLAMINE, N-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PHENANTHRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Pesticides									
ALDRIN	ug/L	ND(0.02)	ND(0.04)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.04)	ND(0.02)
CHLORDANE	ug/L	ND(0.1)	ND(0.2)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(0.2)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHAN	ug/L	ND(0.1)	ND(0.2)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(0.2)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHYL	ug/L	ND(0.02)	ND(0.04)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.04)	ND(0.02)
DICHLORODIPHENYL TRICHLOROETHA	ug/L	ND(0.1)	ND(0.2)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(0.2)	ND(0.1)
DIELDRIN	ug/L	ND(0.02)	ND(0.04)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.04)	ND(0.02)
ENDOSULFAN	ug/L	ND(0.05)	ND(0.1)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.5)	ND(0.1)	ND(0.05)
ENDOSULFAN II	ug/L	ND(0.02)	ND(0.04)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.04)	ND(0.02)
ENDOSULFAN SULFATE	ug/L	ND(0.1)	ND(0.2)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(0.2)	ND(0.1)
ENDRIN	ug/L	ND(0.05)	ND(0.1)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.5)	ND(0.1)	ND(0.05)
ENDRIN ALDEHYDE	ug/L	ND(0.1)	ND(0.2)	ND(0.5)	ND(0.5)	ND(0.5)	ND(1)	ND(0.2)	ND(0.1)
ENDRIN KETONE	ug/L	NS	NS	NS	NS	NS	NS	NS	NS
HEPTACHLOR	ug/L	ND(0.02)	ND(0.04)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.04)	ND(0.02)
HEPTACHLOR EPOXIDE	ug/L	ND(0.05)	ND(0.1)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.5)	ND(0.1)	ND(0.05)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		EW1	EW2	EW3	EW3	EW4	EW5	EW6	MW101
Sample ID:		RW-033	RW-048	RW-036	RW-038	RW-049	RW-037	RW-050	RW-029
Date Sampled		11/12/94	11/15/94	11/14/94	11/14/94	11/15/94	11/14/94	11/15/94	11/12/94
					Dupl.				
Parameters	Units								
Pesticides (Cont'd)									
HEXACHLOROCYCLOHEXANE, alpha-	ug/L	ND(0.02)	ND(0.04)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.04)	ND(0.02)
HEXACHLOROCYCLOHEXANE, beta-	ug/L	ND(0.05)	ND(0.1)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.5)	ND(0.1)	ND(0.05)
HEXACHLOROCYCLOHEXANE, delta-	ug/L	ND(0.05)	ND(0.1)	ND(0.25)	ND(0.25)	ND(0.25)	ND(0.5)	ND(0.1)	ND(0.05)
HEXACHLOROCYCLOHEXANE, gamma-	ug/L	ND(0.02)	ND(0.04)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.04)	ND(0.02)
METHOXYCHLOR	ug/L	ND(0.5)	ND(1)	ND(2.5)	ND(2.5)	ND(2.5)	ND(5)	ND(1)	ND(0.5)
TOXAPHENE	ug/L	ND(1)	ND(2)	ND(5)	ND(5)	ND(5)	ND(10)	ND(2)	ND(1)
PCBs									
AROCLOR 1221	ug/L	ND(0.5)	ND(1)	ND(2.5)	ND(2.5)	ND(2.5)	ND(5)	ND(1)	ND(0.5)
AROCLOR 1232	ug/L	ND(0.5)	ND(1)	ND(2.5)	ND(2.5)	ND(2.5)	ND(5)	ND(1)	ND(0.5)
AROCLOR 1242/1016	ug/L	ND(0.5)	ND(1)	ND(2.5)	ND(2.5)	ND(2.5)	ND(5)	ND(1)	ND(0.5)
AROCLOR 1248	ug/L	ND(0.5)	ND(1)	ND(2.5)	ND(2.5)	ND(2.5)	ND(5)	ND(1)	ND(0.5)
AROCLOR 1254	ug/L	ND(0.5)	ND(1)	ND(2.5)	ND(2.5)	ND(2.5)	ND(5)	ND(1)	ND(0.5)
AROCLOR 1260	ug/L	ND(0.5)	ND(1)	ND(2.5)	ND(2.5)	ND(2.5)	ND(5)	ND(1)	ND(0.5)
Inorganic Compounds									
ALUMINUM	ug/L	340	80	ND(50)	ND(50)	ND(50)	60	410	250
ANTIMONY	ug/L	ND(9)	ND(7)	ND(9)	ND(8)	ND(7)	ND(9)	ND(7)	ND(7)
ARSENIC	ug/L	ND(4)	ND(4)	ND(3)	ND(4)	ND(4)	ND(4)	21 U,J	ND(3)
BARIUM	ug/L	30	16	13	13	20	12	32	8
BERYLLIUM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CADMIUM	ug/L	ND(5)	ND(5)	5	7	ND(5)	5	ND(5)	7
CALCIUM	ug/L	210000 J	480000	360000 J	360000 J	130000	160000 J	7700	310000 J
CHROMIUM (TOTAL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
COBALT	ug/L	ND(10)	20	20	30	ND(10)	20	ND(10)	60
COPPER	ug/L	6 U	13	6 U	10 U	3	5 U	4	20 U
IRON	ug/L	8300	65000	110000	110000	1500	1200	330	110000
LEAD	ug/L	3 J	1 J	1 J	ND(1) UJ	1 J	2 J	2 J	ND(2) UJ

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		EW1	EW2	EW3	EW3	EW4	EW5	EW6	MW101
Sample ID:		RW-033	RW-048	RW-036	RW-038	RW-049	RW-037	RW-050	RW-029
Date Sampled		11/12/94	11/15/94	11/14/94	11/14/94	11/15/94	11/14/94	11/15/94	11/12/94
					Dupl.				
Parameters	Units								
Inorganic Compounds (Cont'd)									
MAGNESIUM, TOTAL	ug/L	96000 J	150000 J	130000 J	120000 J	44000	66000 J	170	170000 J
MANGANESE DISSOLVED	ug/L	NS	NS	NS	NS	NS	NS	NS	NS
MERCURY	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
NICKEL DISSOLVED	ug/L	ND(20)	20	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	110
NICKEL TOTAL	ug/L	ND(20)	20	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	110
POTASSIUM	ug/L	13000	11000	12000	11000	10000	13000	5400	7900
SELENIUM	ug/L	ND(9) UJ	ND(5)	ND(9) UJ	ND(9) UJ	ND(5)	ND(10) UJ	ND(9) UJ	ND(10) UJ
SILVER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
SODIUM	ug/L	400000	150000	170000	160000	540000	550000	510000	63000
THALLIUM	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
VANADIUM	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
ZINC	ug/L	190	90	200	210	50 U	80	30 U	190
General Chemistry									
CYANIDE, TOTAL	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)

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Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW102	MW103	MW104	MW105	MW107	MW108	MW109	MW109
Sample ID:		RW-031	RW-024	RW-023	RW-009B	RW-056	RW-017B	RW-004	RW-005
Date Sampled		11/12/94	11/11/94	11/11/94	11/09/94	11/14/94	11/10/94	11/08/94	11/08/94
									Dupl.
Parameters	Units								
Volatile Organic Compounds									
ACETONE	ug/L	ND(10)	ND(10) UJ	ND(10)	ND(10)	34000 D	ND(10)	ND(10)	11 U
BENZENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMODICHLOROMETHANE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)
BROMOFORM	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMOMETHANE	ug/L	ND(10)	ND(10) UJ	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CARBON DISULFIDE	ug/L	ND(5)	ND(5) UJ	ND(5) UJ	ND(5) UJ	ND(5) UJ	ND(5) UJ	ND(5) UJ	ND(5) UJ
CARBON TETRACHLORIDE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROBENZENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROETHANE	ug/L	ND(10)	ND(10) UJ	ND(10)	ND(10)	ND(10) UJ	ND(10)	ND(10)	ND(10) UJ
CHLOROFORM	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROMETHANE	ug/L	ND(10)	ND(10) UJ	ND(10) UJ	ND(10)	ND(10) UJ	ND(10)	ND(10) UJ	ND(10) UJ
DIBROMOCHLOROMETHANE	ug/L	ND(5)	ND(5) UJ	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,1-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	130	12	ND(5)	ND(5)
DICHLOROETHANE, 1,2-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	440 D	21	ND(5)	ND(5)
DICHLOROETHYLENE, 1,1-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,2-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	11	ND(5) UJ	ND(5)
DICHLOROPROPANE, 1,2-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, CIS 1,3-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, TRANS 1,3-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
ETHYLBENZENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
HEXANONE, 2-	ug/L	ND(10)	ND(10) UJ	ND(10)	ND(10)	ND(10) UJ	ND(10)	ND(10)	ND(10)
METHYL ETHYL KETONE	ug/L	ND(10)	ND(10) UJ	ND(10)	ND(10)	18000 D,J	ND(10)	ND(10)	ND(10)
METHYL ISOBUTYL KETONE	ug/L	ND(10)	ND(10) UJ	ND(10)	ND(10)	1300 DE	ND(10)	ND(10)	ND(10)
METHYLENE CHLORIDE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5) UJ	19	ND(5) UJ	ND(5)	ND(5)
STYRENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHANE, 1,1,2,2-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHYLENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TOLUENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	73	ND(5)	ND(5)	ND(5)
TRICHLOROETHANE, 1,1,1-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	49	ND(5)	ND(5)	ND(5)

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Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW102	MW103	MW104	MW105	MW107	MW108	MW109	MW109
Sample ID:		RW-031	RW-024	RW-023	RW-009B	RW-056	RW-017B	RW-004	RW-005
Date Sampled		11/12/94	11/11/94	11/11/94	11/09/94	11/14/94	11/10/94	11/08/94	11/08/94
									Dupl.
Parameters	Units								
Volatile Organic Compounds (Cont'd)									
TRICHLOROETHANE, 1,1,2-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TRICHLOROETHYLENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
VINYL CHLORIDE	ug/L	ND(10)	ND(10) UJ	ND(10)	ND(10)	12 J	ND(10)	ND(10)	ND(10)
XYLENES (TOTAL)	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	6	ND(5)	ND(5)	ND(5)
Acid Extractables									
2,4,6-TRICHLOROPHENOL	ug/L	ND(10)	ND(10) R	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-NITROPHENOL	ug/L	ND(50)	ND(50) R	ND(50) R	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
CHLOROPHENOL, 2-	ug/L	ND(10)	ND(10) R	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROPHENOL, 2,4-	ug/L	ND(10)	ND(10) R	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYLPHENOL, 2,4-	ug/L	ND(10)	ND(10) R	ND(10) R	ND(10)	12	ND(10)	ND(10)	ND(10)
DINITROPHENOL, 2,4-	ug/L	ND(50)	ND(50) R	ND(50) R	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
METHYL PHENOL, 2- (o-CRESOL)	ug/L	ND(10)	ND(10) R	ND(10) R	ND(10)	27	ND(10)	ND(10)	ND(10)
METHYL PHENOL, 4- (p-CRESOL)	ug/L	ND(10)	ND(10) R	ND(10) R	ND(10)	220 D	ND(10)	ND(10)	ND(10)
NITROPHENOL, 2-	ug/L	ND(10)	ND(10) R	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PENTACHLOROPHENOL	ug/L	ND(50)	ND(50) R	ND(50) R	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
PHENOL	ug/L	ND(10)	ND(10) R	ND(10) R	ND(10)	310 D	ND(10)	ND(10)	ND(10)
TRICHLOROPHENOL, 2,4,5-	ug/L	ND(50)	ND(50) R	ND(50) R	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Base/Neutral Extractables									
1,2,4-TRICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,2-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,3-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
2-METHYL-4,6-DINITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
3,3'-DICHLOROBENZIDINE	ug/L	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
3,4-BENZOFLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-CHLORO-3-METHYLPHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ACENAPHTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)

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Summary of Ground Water Data
For November 1994

Location:		MW102	MW103	MW104	MW105	MW107	MW108	MW109	MW109
Sample ID:		RW-031	RW-024	RW-023	RW-009B	RW-056	RW-017B	RW-004	RW-005
Date Sampled		11/12/94	11/11/94	11/11/94	11/09/94	11/14/94	11/10/94	11/08/94	11/08/94
									Dupl.
Parameters	Units								
Base/Neutral Extractables (Cont'd)									
ACENAPHTHYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(g,h,i)PERYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(k)FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZYL BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHOXY)METHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHYL) ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROISOPROPYL)ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BROMOPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CARBAZOLE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROANILINE, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLORONAPHTHALENE, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHRYSENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-OCTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZO(A,H)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZOFURAN	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROBENZENE, 1,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,6-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
FLUORENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBUTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW102	MW103	MW104	MW105	MW107	MW108	MW109	MW109
Sample ID:		RW-031	RW-024	RW-023	RW-009B	RW-056	RW-017B	RW-004	RW-005
Date Sampled		11/12/94	11/11/94	11/11/94	11/09/94	11/14/94	11/10/94	11/08/94	11/08/94
									Dupl.
Parameters	Units								
Base/Neutral Extractables (Cont'd)									
HEXACHLOROCYCLOPENTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
INDENO(1,2,3-CD)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ISOPHORONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	20	ND(10)	ND(10)	ND(10)
N-NITROSODIPHENYLAMINE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE, 2-METHYL-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROANILINE, 2-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 3-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 4-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROSODI-N-PROPYLAMINE, N-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PHENANTHRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Pesticides									
ALDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.4)	ND(0.02)	ND(0.02)	ND(0.02)
CHLORDANE	ug/L	ND(0.1)	NS	NS	ND(0.1)	ND(2)	NS	ND(0.1)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHAN	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(2)	ND(0.1)	ND(0.1)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHYL	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.4)	ND(0.02)	ND(0.02)	ND(0.02)
DICHLORODIPHENYL TRICHLOROETHA	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(2)	ND(0.1)	ND(0.1)	ND(0.1)
DIELDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.4)	ND(0.02)	ND(0.02)	ND(0.02)
ENDOSULFAN	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)
ENDOSULFAN II	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.4)	ND(0.02)	ND(0.02)	ND(0.02)
ENDOSULFAN SULFATE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(2)	ND(0.1)	ND(0.1)	ND(0.1)
ENDRIN	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)
ENDRIN ALDEHYDE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(2)	ND(0.1)	ND(0.1)	ND(0.1)
ENDRIN KETONE	ug/L	NS	ND(0.1)	ND(0.1)	NS	NS	ND(0.1)	NS	NS
HEPTACHLOR	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.4)	ND(0.02)	ND(0.02)	ND(0.02)

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Summary of Ground Water Data
For November 1994

Location:		MW102	MW103	MW104	MW105	MW107	MW108	MW109	MW109
Sample ID:		RW-031	RW-024	RW-023	RW-009B	RW-056	RW-017B	RW-004	RW-005
Date Sampled		11/12/94	11/11/94	11/11/94	11/09/94	11/14/94	11/10/94	11/08/94	11/08/94
Parameters	Units								Dupl.
Pesticides (Cont'd)									
HEPTACHLOR EPOXIDE	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, alpha-	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.4)	ND(0.02)	ND(0.02)	ND(0.02)
HEXACHLOROCYCLOHEXANE, beta-	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, delta-	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(1)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, gamma-	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.4)	ND(0.02)	ND(0.02)	ND(0.02)
METHOXYCHLOR	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(10)	ND(0.5)	ND(0.5)	ND(0.5)
TOXAPHENE	ug/L	ND(1)	ND(1)	ND(1)	ND(1)	ND(20)	ND(1)	ND(1)	ND(1)
PCBs									
AROCLOR 1221	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(10)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1232	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(10)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1242/1016	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(10)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1248	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(10)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1254	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(10)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1260	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(10)	ND(0.5)	ND(0.5)	ND(0.5)
Inorganic Compounds									
ALUMINUM	ug/L	2900	2500 J	17000 J	10000	4400	12000 J	5400	16000
ANTIMONY	ug/L	ND(7)	ND(7)	ND(7)	ND(7)	ND(6)	ND(7)	ND(7)	ND(7)
ARSENIC	ug/L	ND(2)	27 J	30 J	24 J	54	17 J	ND(3) UJ	18
BARIUM	ug/L	15	46	220	86	1100	120	550	270
BERYLLIUM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CADMIUM	ug/L	7	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CALCIUM	ug/L	240000 J	310000	330000	520000	280000	270000	5600	310000
CHROMIUM (TOTAL)	ug/L	ND(10)	ND(10)	30	10	10	20	40	80
COBALT	ug/L	50	ND(10)	20	40	20	20	ND(10)	40
COPPER	ug/L	15	24	51	31	32	35	39	170
IRON	ug/L	110000	30000	63000	190000	17000	63000	9400	47000

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Summary of Ground Water Data
For November 1994

Location:		MW102	MW103	MW104	MW105	MW107	MW108	MW109	MW109
Sample ID:		RW-031	RW-024	RW-023	RW-009B	RW-056	RW-017B	RW-004	RW-005
Date Sampled		11/12/94	11/11/94	11/11/94	11/09/94	11/14/94	11/10/94	11/08/94	11/08/94
									Dupl.
Parameters	Units								
Inorganic Compounds (Cont'd)									
LEAD	ug/L	6 J	8 J	32 J	13 J	8 J	19 J	13 J	25 J
MAGNESIUM, TOTAL	ug/L	130000 J	92000	120000	230000	130000	100000	2300	120000
MANGANESE DISSOLVED	ug/L	NS	NS	NS	8500	NS	5300	NS	NS
MERCURY	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
NICKEL DISSOLVED	ug/L	100	20	90	30	50	40	30	150
NICKEL TOTAL	ug/L	100	20	90	30	50	40	30	150
POTASSIUM	ug/L	8200	4500	9500	6500	11000	8600	4900	22000
SELENIUM	ug/L	ND(8) UJ	ND(9) UJ	ND(7) UJ	ND(10) UJ	ND(5)	ND(8) UJ	ND(9) UJ	ND(8)
SILVER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
SODIUM	ug/L	45000	55000	140000	110000	330000	290000	530000	490000
THALLIUM	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
VANADIUM	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	60
ZINC	ug/L	360	20	230	220	40 U	80	50	370
General Chemistry									
CYANIDE, TOTAL	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0.008	ND(0.005)	ND(0.005)

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Summary of Ground Water Data
For November 1994

Location:		MW11	MW110	MW111	MW113	MW114	MW115	MW116	MW117
Sample ID:		RW-043	RW-003B	RW-010	RW-018B	RW-060	RW-011	RW-012A	RW-013B
Date Sampled		11/14/94	11/08/94	11/09/94	11/12/94	11/16/94	11/10/94	11/10/94	11/10/94
Parameters	Units								
Volatile Organic Compounds									
ACETONE	ug/L	24	ND(10)	270 D,J	NS	ND(10)	ND(10)	10	ND(10)
BENZENE	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
BROMODICHLOROMETHANE	ug/L	ND(5)	ND(5) UJ	ND(5) UJ	NS	ND(5)	ND(5) UJ	ND(5) UJ	ND(5) UJ
BROMOFORM	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
BROMOMETHANE	ug/L	ND(10)	ND(10)	ND(10) UJ	NS	ND(10)	ND(10)	ND(10)	ND(10)
CARBON DISULFIDE	ug/L	ND(5) UJ	ND(5) UJ	ND(5) UJ	NS	ND(5) UJ	ND(5) UJ	ND(5)	ND(5) UJ
CARBON TETRACHLORIDE	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROBENZENE	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10) UJ	NS	ND(10) UJ	ND(10)	ND(10)	ND(10)
CHLOROFORM	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROMETHANE	ug/L	ND(10) UJ	ND(10)	ND(10) UJ	NS	ND(10) UJ	ND(10)	ND(10)	ND(10)
DIBROMOCHLOROMETHANE	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5) UJ	ND(5)
DICHLOROETHANE, 1,1-	ug/L	93	ND(5)	8 J	NS	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,2-	ug/L	ND(5)	ND(5)	42 J	NS	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,1-	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,2-	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	6	ND(5)	ND(5)
DICHLOROPROPANE, 1,2-	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5) UJ	ND(5)
DICHLOROPROPENE, CIS 1,3-	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, TRANS 1,3-	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
ETHYLBENZENE	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
HEXANONE, 2-	ug/L	ND(10)	ND(10)	ND(10) UJ	NS	ND(10) UJ	ND(10)	ND(10)	ND(10)
METHYL ETHYL KETONE	ug/L	ND(10)	ND(10)	15 UJ	NS	ND(10) UJ	ND(10)	ND(10)	ND(10)
METHYL ISOBUTYL KETONE	ug/L	ND(10)	ND(10)	ND(10) UJ	NS	ND(10)	ND(10) UJ	ND(10)	ND(10)
METHYLENE CHLORIDE	ug/L	ND(5)	ND(5) UJ	ND(5) UJ	NS	ND(5)	ND(5) UJ	ND(5)	ND(5) UJ
STYRENE	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHANE, 1,1,2,2-	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
TOLUENE	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5) UJ	ND(5)
TRICHLOROETHANE, 1,1,1-	ug/L	130	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)

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Summary of Ground Water Data
For November 1994

Location:		MW11	MW110	MW111	MW113	MW114	MW115	MW116	MW117
Sample ID:		RW-043	RW-003B	RW-010	RW-018B	RW-060	RW-011	RW-012A	RW-013B
Date Sampled		11/14/94	11/08/94	11/09/94	11/12/94	11/16/94	11/10/94	11/10/94	11/10/94
Parameters	Units								
Volatile Organic Compounds (Cont'd)									
TRICHLOROETHANE, 1,1,2-	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5) UJ	ND(5)
TRICHLOROETHYLENE	ug/L	7	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5)	ND(5)
VINYL CHLORIDE	ug/L	ND(10) UJ	ND(10)	ND(10) UJ	NS	ND(10) UJ	ND(10)	ND(10)	ND(10)
XYLENES (TOTAL)	ug/L	ND(5)	ND(5)	ND(5) UJ	NS	ND(5)	ND(5)	ND(5) UJ	ND(5)
Acid Extractables									
2,4,6-TRICHLOROPHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NS	ND(10)
4-NITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	NS	ND(50)
CHLOROPHENOL, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NS	ND(10)
DICHLOROPHENOL, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NS	ND(10)
DIMETHYLPHENOL, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NS	ND(10)
DINITROPHENOL, 2,4-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	NS	ND(50)
METHYL PHENOL, 2- (o-CRESOL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NS	ND(10)
METHYL PHENOL, 4- (p-CRESOL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NS	ND(10)
NITROPHENOL, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NS	ND(10)
PENTACHLOROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	NS	ND(50)
PHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NS	ND(10)
TRICHLOROPHENOL, 2,4,5-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	NS	ND(50)
Base/Neutral Extractables									
1,2,4-TRICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
1,2-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
1,3-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
2-METHYL-4,6-DINITROPHENOL	ug/L	ND(50)	ND(50)	ND(50) R	ND(50)	ND(50)	ND(50)	NS	ND(50)
3,3'-DICHLOROBENZIDINE	ug/L	ND(20)	ND(20)	ND(20) R	ND(20)	ND(20)	ND(20)	NS	ND(20)
3,4-BENZOFLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
4-CHLORO-3-METHYLPHENOL	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
ACENAPHTHENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)

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Summary of Ground Water Data
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Location:		MW11	MW110	MW111	MW113	MW114	MW115	MW116	MW117
Sample ID:		RW-043	RW-003B	RW-010	RW-018B	RW-060	RW-011	RW-012A	RW-013B
Date Sampled		11/14/94	11/08/94	11/09/94	11/12/94	11/16/94	11/10/94	11/10/94	11/10/94
Parameters	Units								
Base/Neutral Extractables (Cont'd)									
ACENAPHTHYLENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
BENZO(a)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
BENZO(a)PYRENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
BENZO(g,h,i)PERYLENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
BENZO(k)FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
BENZYL BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
BIS(2-CHLOROETHOXY)METHANE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
BIS(2-CHLOROETHYL) ETHER	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
BIS(2-CHLOROISOPROPYL)ETHER	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
BROMOPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
CARBAZOLE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
CHLOROANILINE, 4-	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
CHLORONAPHTHALENE, 2-	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
CHLOROPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
CHRYSENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
DI-N-BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
DI-N-OCTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
DIBENZO(A,H)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
DIBENZOFURAN	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
DICHLOROBENZENE, 1,4-	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
DIETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
DIMETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
DINITROTOLUENE, 2,4-	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
DINITROTOLUENE, 2,6-	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
FLUORENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
HEXACHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
HEXACHLOROBUTADIENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW11	MW110	MW111	MW113	MW114	MW115	MW116	MW117
Sample ID:		RW-043	RW-003B	RW-010	RW-018B	RW-060	RW-011	RW-012A	RW-013B
Date Sampled		11/14/94	11/08/94	11/09/94	11/12/94	11/16/94	11/10/94	11/10/94	11/10/94
Parameters	Units								
Base/Neutral Extractables (Cont'd)									
HEXACHLOROCYCLOPENTADIENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
HEXACHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
INDENO(1,2,3-CD)PYRENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
ISOPHORONE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
N-NITROSODIPHENYLAMINE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
NAPHTHALENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
NAPHTHALENE, 2-METHYL-	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
NITROANILINE, 2-	ug/L	ND(50)	ND(50)	ND(50) R	ND(50)	ND(50)	ND(50)	NS	ND(50)
NITROANILINE, 3-	ug/L	ND(50)	ND(50)	ND(50) R	ND(50)	ND(50)	ND(50)	NS	ND(50)
NITROANILINE, 4-	ug/L	ND(50)	ND(50)	ND(50) R	ND(50)	ND(50)	ND(50)	NS	ND(50)
NITROBENZENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
NITROSODI-N-PROPYLAMINE, N-	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
PHENANTHRENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
PYRENE	ug/L	ND(10)	ND(10)	ND(10) R	ND(10)	ND(10)	ND(10)	NS	ND(10)
Pesticides									
ALDRIN	ug/L	ND(0.1)	ND(0.02)	ND(0.02)	NS	ND(0.02)	ND(0.02)	NS	ND(0.02)
CHLORDANE	ug/L	ND(0.5)	ND(0.1)	ND(0.1)	NS	ND(0.1)	ND(0.1)	NS	ND(0.1)
DICHLORODIPHENYL DICHLOROETHAN	ug/L	ND(0.5)	ND(0.1)	ND(0.1)	NS	ND(0.1)	ND(0.1)	NS	ND(0.1)
DICHLORODIPHENYL DICHLOROETHYL	ug/L	ND(0.1)	ND(0.02)	ND(0.02)	NS	ND(0.02)	ND(0.02)	NS	ND(0.02)
DICHLORODIPHENYL TRICHLOROETHA	ug/L	ND(0.5)	ND(0.1)	ND(0.1)	NS	ND(0.1)	ND(0.1)	NS	ND(0.1)
DIELDRIN	ug/L	ND(0.1)	ND(0.02)	ND(0.02)	NS	ND(0.02)	ND(0.02)	NS	ND(0.02)
ENDOSULFAN	ug/L	ND(0.25)	ND(0.05)	ND(0.05)	NS	ND(0.05)	ND(0.05)	NS	ND(0.05)
ENDOSULFAN II	ug/L	ND(0.1)	ND(0.02)	ND(0.02)	NS	ND(0.02)	ND(0.02)	NS	ND(0.02)
ENDOSULFAN SULFATE	ug/L	ND(0.5)	ND(0.1)	ND(0.1)	NS	ND(0.1)	ND(0.1)	NS	ND(0.1)
ENDRIN	ug/L	ND(0.25)	ND(0.05)	ND(0.05)	NS	ND(0.05)	ND(0.05)	NS	ND(0.05)
ENDRIN ALDEHYDE	ug/L	ND(0.5)	ND(0.1)	ND(0.1)	NS	ND(0.1)	ND(0.1)	NS	ND(0.1)
ENDRIN KETONE	ug/L	NS	NS	NS	NS	NS	NS	NS	NS
HEPTACHLOR	ug/L	ND(0.1)	ND(0.02)	ND(0.02)	NS	ND(0.02)	ND(0.02)	NS	ND(0.02)

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Summary of Ground Water Data
For November 1994

Location:		MW11	MW110	MW111	MW113	MW114	MW115	MW116	MW117
Sample ID:		RW-043	RW-003B	RW-010	RW-018B	RW-060	RW-011	RW-012A	RW-013B
Date Sampled		11/14/94	11/08/94	11/09/94	11/12/94	11/16/94	11/10/94	11/10/94	11/10/94
Parameters	Units								
Pesticides (Cont'd)									
HEPTACHLOR EPOXIDE	ug/L	ND(0.25)	ND(0.05)	ND(0.05)	NS	ND(0.05)	ND(0.05)	NS	ND(0.05)
HEXACHLOROCYCLOHEXANE, alpha-	ug/L	ND(0.1)	ND(0.02)	ND(0.02)	NS	ND(0.02)	ND(0.02)	NS	ND(0.02)
HEXACHLOROCYCLOHEXANE, beta-	ug/L	ND(0.25)	ND(0.05)	ND(0.05)	NS	ND(0.05)	ND(0.05)	NS	ND(0.05)
HEXACHLOROCYCLOHEXANE, delta-	ug/L	ND(0.25)	ND(0.05)	ND(0.05)	NS	ND(0.05)	ND(0.05)	NS	ND(0.05)
HEXACHLOROCYCLOHEXANE, gamma-	ug/L	ND(0.1)	ND(0.02)	ND(0.02)	NS	ND(0.02)	ND(0.02)	NS	ND(0.02)
METHOXYCHLOR	ug/L	ND(2.5)	ND(0.5)	ND(0.5)	NS	ND(0.5)	ND(0.5)	NS	ND(0.5)
TOXAPHENE	ug/L	ND(5)	ND(1)	ND(1)	NS	ND(1)	ND(1)	NS	ND(1)
PCBs									
AROCLOR 1221	ug/L	ND(2.5)	ND(0.5)	ND(0.5)	NS	ND(0.5)	ND(0.5)	NS	ND(0.5)
AROCLOR 1232	ug/L	ND(2.5)	ND(0.5)	ND(0.5)	NS	ND(0.5)	ND(0.5)	NS	ND(0.5)
AROCLOR 1242/1016	ug/L	ND(2.5)	ND(0.5)	ND(0.5)	NS	ND(0.5)	ND(0.5)	NS	ND(0.5)
AROCLOR 1248	ug/L	ND(2.5)	ND(0.5)	ND(0.5)	NS	ND(0.5)	ND(0.5)	NS	ND(0.5)
AROCLOR 1254	ug/L	ND(2.5)	ND(0.5)	ND(0.5)	NS	ND(0.5)	ND(0.5)	NS	ND(0.5)
AROCLOR 1260	ug/L	ND(2.5)	ND(0.5)	ND(0.5)	NS	ND(0.5)	ND(0.5)	NS	ND(0.5)
Inorganic Compounds									
ALUMINUM	ug/L	NS	1200	2700	NS	11000	290	NS	8900
ANTIMONY	ug/L	NS	ND(7)	ND(7)	NS	ND(9)	ND(7)	NS	ND(7)
ARSENIC	ug/L	NS	ND(3) UJ	18 J	NS	16 U	ND(4) UJ	NS	9 J
BARIUM	ug/L	NS	64	25	NS	28	13	NS	89
BERYLLIUM	ug/L	NS	ND(5)	ND(5)	NS	ND(5)	ND(5)	NS	ND(5)
CADMIUM	ug/L	NS	ND(5)	ND(5)	NS	ND(5)	ND(5)	NS	ND(5)
CALCIUM	ug/L	NS	84000	420000	NS	420000	410000	NS	490000
CHROMIUM (TOTAL)	ug/L	NS	ND(10)	ND(10)	NS	ND(20)	ND(10)	NS	30
COBALT	ug/L	NS	ND(10)	20	NS	150	ND(10)	NS	20
COPPER	ug/L	NS	15	17	NS	22	9	NS	38
IRON	ug/L	NS	1800	220000	NS	300000	33000	NS	120000

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Summary of Ground Water Data
For November 1994

Location:		MW11	MW110	MW111	MW113	MW114	MW115	MW116	MW117
Sample ID:		RW-043	RW-003B	RW-010	RW-018B	RW-060	RW-011	RW-012A	RW-013B
Date Sampled		11/14/94	11/08/94	11/09/94	11/12/94	11/16/94	11/10/94	11/10/94	11/10/94
Parameters	Units								
Inorganic Compounds (Cont'd)									
LEAD	ug/L	NS	2 J	4 J	NS	10 J	ND(2) UJ	NS	10 J
MAGNESIUM, TOTAL	ug/L	NS	45000	170000	NS	43000	130000	NS	200000
MANGANESE DISSOLVED	ug/L	NS	NS	NS	NS	NS	NS	NS	6900
MERCURY	ug/L	NS	ND(0.2)	ND(0.2)	NS	ND(0.2)	ND(0.2)	NS	ND(0.2)
NICKEL DISSOLVED	ug/L	NS	ND(20)	80	NS	250	ND(20)	NS	50
NICKEL TOTAL	ug/L	NS	ND(20)	80	NS	250	ND(20)	NS	50
POTASSIUM	ug/L	NS	3300	8000	NS	29000	8400	NS	16000
SELENIUM	ug/L	NS	ND(4) UJ	ND(10) UJ	NS	ND(10)	ND(7) UJ	NS	ND(9) UJ
SILVER	ug/L	NS	ND(10)	ND(10)	NS	ND(10)	ND(10)	NS	ND(10)
SODIUM	ug/L	NS	3700	8900	NS	190000	130000	NS	140000
THALLIUM	ug/L	NS	ND(10)	ND(10)	NS	ND(10)	ND(10)	NS	ND(10)
VANADIUM	ug/L	NS	ND(50)	ND(50)	NS	ND(50)	ND(50)	NS	ND(50)
ZINC	ug/L	NS	20	120	NS	1000	ND(10)	NS	210
General Chemistry									
CYANIDE, TOTAL	mg/L	NS	ND(0.005)	ND(0.005)	NS	ND(0.005)	ND(0.005)	NS	ND(0.005)

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Location:		MW118	MW201	MW202	MW203	MW204	MW205	MW206	MW207
Sample ID:		RW-002	RW-028	RW-032	RW-045	RW-021	RW-014	RW-040	RW-042
Date Sampled		11/08/94	11/12/94	11/12/94	11/14/94	11/11/94	11/10/94	11/14/94	11/14/94
Parameters	Units								
Volatile Organic Compounds									
ACETONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	12 B	ND(10)	ND(10)
BENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMODICHLOROMETHANE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMOFORM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMOMETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CARBON DISULFIDE	ug/L	ND(5) UJ	ND(5)	ND(5)	ND(5) UJ	ND(5) UJ	ND(5) UJ	ND(5) UJ	ND(5) UJ
CARBON TETRACHLORIDE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROBENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROETHANE	ug/L	ND(10) UJ	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROFORM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROMETHANE	ug/L	ND(10) UJ	ND(10)	ND(10)	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(10) UJ
DIBROMOCHLOROMETHANE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5) UJ	ND(5)	ND(5)
DICHLOROPROPANE, 1,2-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, CIS 1,3-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, TRANS 1,3-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
ETHYLBENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
HEXANONE, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL ETHYL KETONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL ISOBUTYL KETONE	ug/L	ND(10)	ND(10) UJ	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYLENE CHLORIDE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
STYRENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHANE, 1,1,2,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TOLUENE	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TRICHLOROETHANE, 1,1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)

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Summary of Ground Water Data
For November 1994

Location:		MW118	MW201	MW202	MW203	MW204	MW205	MW206	MW207
Sample ID:		RW-002	RW-028	RW-032	RW-045	RW-021	RW-014	RW-040	RW-042
Date Sampled		11/08/94	11/12/94	11/12/94	11/14/94	11/11/94	11/10/94	11/14/94	11/14/94
Parameters	Units								
Volatile Organic Compounds (Cont'd)									
TRICHLOROETHANE, 1,1,2-	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TRICHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
VINYL CHLORIDE	ug/L	ND(10) UJ	ND(10)	ND(10)	ND(10) UJ	ND(10)	ND(10)	ND(10) UJ	ND(10) UJ
XYLENES (TOTAL)	ug/L	ND(5)	ND(5) UJ	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
Acid Extractables									
2,4,6-TRICHLOROPHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-NITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
CHLOROPHENOL, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROPHENOL, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYLPHENOL, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROPHENOL, 2,4-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
METHYL PHENOL, 2- (o-CRESOL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL PHENOL, 4- (p-CRESOL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROPHENOL, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PENTACHLOROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
PHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
TRICHLOROPHENOL, 2,4,5-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Base/Neutral Extractables									
1,2,4-TRICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,2-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,3-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
2-METHYL-4,6-DINITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
3,3'-DICHLOROBENZIDINE	ug/L	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
3,4-BENZOFLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-CHLORO-3-METHYLPHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ACENAPHTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW118	MW201	MW202	MW203	MW204	MW205	MW206	MW207
Sample ID:		RW-002	RW-028	RW-032	RW-045	RW-021	RW-014	RW-040	RW-042
Date Sampled		11/08/94	11/12/94	11/12/94	11/14/94	11/11/94	11/10/94	11/14/94	11/14/94
Parameters	Units								
Base/Neutral Extractables (Cont'd)									
ACENAPHTHYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(g,h,i)PERYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(k)FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZYL BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHOXY)METHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHYL) ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROISOPROPYL)ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BROMOPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CARBAZOLE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROANILINE, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLORONAPHTHALENE, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHRYSENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-OCTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZO(A,H)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZOFURAN	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROBENZENE, 1,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,6-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
FLUORENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBUTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)

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Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW118	MW201	MW202	MW203	MW204	MW205	MW206	MW207
Sample ID:		RW-002	RW-028	RW-032	RW-045	RW-021	RW-014	RW-040	RW-042
Date Sampled		11/08/94	11/12/94	11/12/94	11/14/94	11/11/94	11/10/94	11/14/94	11/14/94
Parameters	Units								
Base/Neutral Extractables (Cont'd)									
HEXACHLOROCYCLOPENTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
INDENO(1,2,3-CD)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ISOPHORONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
N-NITROSODIPHENYLAMINE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE, 2-METHYL-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROANILINE, 2-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 3-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 4-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROSODI-N-PROPYLAMINE, N-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PHENANTHRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Pesticides									
ALDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
CHLORDANE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	NS	ND(0.1)	ND(0.1)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHAN	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHYL	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
DICHLORODIPHENYL TRICHLOROETHA	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
DIELDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
ENDOSULFAN	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
ENDOSULFAN II	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
ENDOSULFAN SULFATE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
ENDRIN	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
ENDRIN ALDEHYDE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
ENDRIN KETONE	ug/L	NS	NS	NS	NS	ND(0.1)	NS	NS	NS
HEPTACHLOR	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)

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Summary of Ground Water Data
For November 1994

Location:		MW118	MW201	MW202	MW203	MW204	MW205	MW206	MW207
Sample ID:		RW-002	RW-028	RW-032	RW-045	RW-021	RW-014	RW-040	RW-042
Date Sampled		11/08/94	11/12/94	11/12/94	11/14/94	11/11/94	11/10/94	11/14/94	11/14/94
Parameters	Units								
Pesticides (Cont'd)									
HEPTACHLOR EPOXIDE	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, alpha-	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
HEXACHLOROCYCLOHEXANE, beta-	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, delta-	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, gamma-	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
METHOXYCHLOR	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TOXAPHENE	ug/L	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
PCBs									
AROCLOR 1221	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1232	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1242/1016	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1248	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1254	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1260	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Inorganic Compounds									
ALUMINUM	ug/L	20000	1200	13000	5100	25000 J	190	NS	300
ANTIMONY	ug/L	ND(7)	ND(10)	ND(7)	ND(9)	ND(8)	ND(7)	NS	ND(7)
ARSENIC	ug/L	13	ND(4)	ND(3)	ND(4)	22 J	8 J	NS	ND(3)
BARIUM	ug/L	190	42	200	37	420	12	NS	36
BERYLLIUM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	NS	ND(5)
CADMIUM	ug/L	ND(5)	ND(5)	5	ND(5)	ND(5)	5	NS	ND(5)
CALCIUM	ug/L	370000	77000 J	13000 J	9300 J	240000	460000	NS	450000 J
CHROMIUM (TOTAL)	ug/L	50	ND(10)	20	ND(10)	50	ND(10)	NS	ND(10)
COBALT	ug/L	30	10	ND(10)	ND(10)	10	40	NS	10
COPPER	ug/L	48	6 U	20 U	14	69	13	NS	14
IRON	ug/L	50000	3200	12000	4600	58000	140000	NS	63000

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Summary of Ground Water Data
For November 1994

Location:		MW118	MW201	MW202	MW203	MW204	MW205	MW206	MW207
Sample ID:		RW-002	RW-028	RW-032	RW-045	RW-021	RW-014	RW-040	RW-042
Date Sampled		11/08/94	11/12/94	11/12/94	11/14/94	11/11/94	11/10/94	11/14/94	11/14/94
Parameters	Units								
Inorganic Compounds (Cont'd)									
LEAD	ug/L	18 J	5 J	9 J	6	28 J	ND(2) UJ	NS	2
MAGNESIUM, TOTAL	ug/L	130000	37000 J	7300 J	5200 J	100000	150000	NS	180000 J
MANGANESE DISSOLVED	ug/L	NS	NS	NS	NS	NS	NS	NS	NS
MERCURY	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	NS	ND(0.2)
NICKEL DISSOLVED	ug/L	70	ND(20)	ND(20)	ND(20)	80	20	NS	20
NICKEL TOTAL	ug/L	70	ND(20)	ND(20)	ND(20)	80	20	NS	20
POTASSIUM	ug/L	11000	9600	6200	6200	18000	10000	NS	17000
SELENIUM	ug/L	ND(8)	ND(10) UJ	ND(10) UJ	ND(5) UJ	ND(7) UJ	ND(10) UJ	NS	ND(4) UJ
SILVER	ug/L	ND(10)	10	ND(10)	ND(10)	ND(10)	ND(10)	NS	ND(10)
SODIUM	ug/L	80000	780000	470000	740000	320000	150000	NS	120000
THALLIUM	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	NS	ND(10)
VANADIUM	ug/L	50	ND(50)	ND(50)	ND(50)	50	ND(50)	NS	ND(50)
ZINC	ug/L	130	10	40	30	130	140	NS	ND(10)
General Chemistry									
CYANIDE, TOTAL	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	NS	ND(0.005)

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Summary of Ground Water Data
For November 1994

Location:		MW209	MW219	MW25	MW301	MW302	MW303	MW304	MW305
Sample ID:		RW-007	RW-056B	RW-041	RW-026	RW-027	RW-046	RW-022	RW-015
Date Sampled		11/08/94	11/15/94	11/14/94	11/11/94	11/11/94	11/14/94	11/11/94	11/10/94
Parameters	Units								
Volatile Organic Compounds									
ACETONE	ug/L	ND(10)	ND(10)	49 U	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZENE	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMODICHLOROMETHANE	ug/L	ND(5) UJ	ND(5)	ND(10)	ND(5) UJ	ND(5) UJ	ND(5)	ND(5)	ND(5) UJ
BROMOFORM	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMOMETHANE	ug/L	ND(10)	ND(10)	ND(20) UJ	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CARBON DISULFIDE	ug/L	ND(5) UJ	ND(5) UJ	ND(10) UJ	ND(5)	ND(5)	ND(5) UJ	ND(5) UJ	ND(5) UJ
CARBON TETRACHLORIDE	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROBENZENE	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROETHANE	ug/L	ND(10)	ND(10) UJ	ND(20) UJ	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROFORM	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROMETHANE	ug/L	ND(10)	ND(10) UJ	ND(20) UJ	ND(10)	ND(10)	ND(10) UJ	ND(10) UJ	ND(10)
DIBROMOCHLOROMETHANE	ug/L	ND(5)	ND(5)	ND(10)	ND(5) UJ	ND(5) UJ	ND(5)	ND(5) UJ	ND(5)
DICHLOROETHANE, 1,1-	ug/L	ND(5)	ND(5)	26	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,2-	ug/L	ND(5)	ND(5)	240	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,1-	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,2-	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPANE, 1,2-	ug/L	ND(5)	ND(5)	ND(10)	ND(5) UJ	ND(5) UJ	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, CIS 1,3-	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, TRANS 1,3-	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
ETHYLBENZENE	ug/L	ND(5)	ND(5)	15	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
HEXANONE, 2-	ug/L	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL ETHYL KETONE	ug/L	ND(10)	ND(10)	ND(20)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL ISOBUTYL KETONE	ug/L	ND(10)	ND(10)	ND(20)	ND(10) UJ	ND(10) UJ	ND(10)	ND(10)	ND(10)
METHYLENE CHLORIDE	ug/L	ND(5) UJ	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5) UJ
STYRENE	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHANE, 1,1,2,2-	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHYLENE	ug/L	ND(5)	11	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TOLUENE	ug/L	ND(5)	ND(5)	30	ND(5) UJ	ND(5) UJ	ND(5)	ND(5)	ND(5)
TRICHLOROETHANE, 1,1,1-	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)

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Summary of Ground Water Data
For November 1994

Location:		MW209	MW219	MW25	MW301	MW302	MW303	MW304	MW305
Sample ID:		RW-007	RW-056B	RW-041	RW-026	RW-027	RW-046	RW-022	RW-015
Date Sampled		11/08/94	11/15/94	11/14/94	11/11/94	11/11/94	11/14/94	11/11/94	11/10/94
Parameters	Units								
Volatile Organic Compounds (Cont'd)									
TRICHLOROETHANE, 1,1,2-	ug/L	ND(5)	ND(5)	ND(10)	ND(5) UJ	ND(5) UJ	ND(5)	ND(5)	ND(5)
TRICHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(10)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
VINYL CHLORIDE	ug/L	ND(10)	ND(10) UJ	ND(20) UJ	ND(10)	ND(10)	ND(10) UJ	ND(10)	ND(10)
XYLENES (TOTAL)	ug/L	ND(5)	ND(5)	54	ND(5) UJ	ND(5) UJ	ND(5)	ND(5)	ND(5)
Acid Extractables									
2,4,6-TRICHLOROPHENOL	ug/L	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-NITROPHENOL	ug/L	ND(50) R	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
CHLOROPHENOL, 2-	ug/L	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROPHENOL, 2,4-	ug/L	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYLPHENOL, 2,4-	ug/L	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROPHENOL, 2,4-	ug/L	ND(50) R	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
METHYL PHENOL, 2- (o-CRESOL)	ug/L	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL PHENOL, 4- (p-CRESOL)	ug/L	ND(10) R	ND(10)	11	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROPHENOL, 2-	ug/L	ND(10) R	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PENTACHLOROPHENOL	ug/L	ND(50) R	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
PHENOL	ug/L	ND(10) R	ND(10)	1100 D	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
TRICHLOROPHENOL, 2,4,5-	ug/L	ND(50) R	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Base/Neutral Extractables									
1,2,4-TRICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,2-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,3-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
2-METHYL-4,6-DINITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
3,3'-DICHLOROBENZIDINE	ug/L	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
3,4-BENZOFLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-CHLORO-3-METHYLPHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ACENAPHTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW209	MW219	MW25	MW301	MW302	MW303	MW304	MW305
Sample ID:		RW-007	RW-056B	RW-041	RW-026	RW-027	RW-046	RW-022	RW-015
Date Sampled		11/08/94	11/15/94	11/14/94	11/11/94	11/11/94	11/14/94	11/11/94	11/10/94
Parameters	Units								
Base/Neutral Extractables (Cont'd)									
ACENAPHTHYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(g,h,i)PERYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(k)FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZYL BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHOXY)METHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHYL) ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROISOPROPYL)ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BROMOPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CARBAZOLE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROANILINE, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLORONAPHTHALENE, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHRYSENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-OCTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZO(A,H)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZOFURAN	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROBENZENE, 1,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,6-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
FLUORENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBUTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)

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Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW209	MW219	MW25	MW301	MW302	MW303	MW304	MW305
Sample ID:		RW-007	RW-056B	RW-041	RW-026	RW-027	RW-046	RW-022	RW-015
Date Sampled		11/08/94	11/15/94	11/14/94	11/11/94	11/11/94	11/14/94	11/11/94	11/10/94
Parameters	Units								
Base/Neutral Extractables (Cont'd)									
HEXACHLOROCYCLOPENTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
INDENO(1,2,3-CD)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ISOPHORONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
N-NITROSODIPHENYLAMINE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE, 2-METHYL-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROANILINE, 2-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 3-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 4-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROSODI-N-PROPYLAMINE, N-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PHENANTHRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Pesticides									
ALDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)
CHLORDANE	ug/L	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.1)	ND(0.1)	ND(0.2)	NS	ND(0.1)
DICHLORODIPHENYL DICHLOROETHAN	ug/L	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.1)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHYL	ug/L	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)
DICHLORODIPHENYL TRICHLOROETHA	ug/L	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.1)	ND(0.1)
DIELDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)
ENDOSULFAN	ug/L	ND(0.05)	ND(0.05)	ND(0.1)	ND(0.05)	ND(0.05)	ND(0.1)	ND(0.05)	ND(0.05)
ENDOSULFAN II	ug/L	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)
ENDOSULFAN SULFATE	ug/L	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.1)	ND(0.1)
ENDRIN	ug/L	ND(0.05)	ND(0.05)	ND(0.1)	ND(0.05)	ND(0.05)	ND(0.1)	ND(0.05)	ND(0.05)
ENDRIN ALDEHYDE	ug/L	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.1)	ND(0.1)	ND(0.2)	ND(0.1)	ND(0.1)
ENDRIN KETONE	ug/L	NS	NS	NS	NS	NS	NS	ND(0.1)	NS
HEPTACHLOR	ug/L	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)

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Summary of Ground Water Data
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Location:		MW209	MW219	MW25	MW301	MW302	MW303	MW304	MW305
Sample ID:		RW-007	RW-056B	RW-041	RW-026	RW-027	RW-046	RW-022	RW-015
Date Sampled		11/08/94	11/15/94	11/14/94	11/11/94	11/11/94	11/14/94	11/11/94	11/10/94
Parameters	Units								
Pesticides (Cont'd)									
HEPTACHLOR EPOXIDE	ug/L	ND(0.05)	ND(0.05)	ND(0.1)	ND(0.05)	ND(0.05)	ND(0.1)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, alpha-	ug/L	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)
HEXACHLOROCYCLOHEXANE, beta-	ug/L	ND(0.05)	ND(0.05)	ND(0.1)	ND(0.05)	ND(0.05)	ND(0.1)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, delta-	ug/L	ND(0.05)	ND(0.05)	ND(0.1)	ND(0.05)	ND(0.05)	ND(0.1)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, gamma-	ug/L	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)	ND(0.04)	ND(0.02)	ND(0.02)
METHOXYCHLOR	ug/L	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	1	ND(0.5)	ND(0.5)
TOXAPHENE	ug/L	ND(1)	ND(1)	ND(2)	ND(1)	ND(1)	2	ND(1)	ND(1)
PCBs									
AROCLOR 1221	ug/L	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)
AROCLOR 1232	ug/L	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)
AROCLOR 1242/1016	ug/L	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)
AROCLOR 1248	ug/L	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)
AROCLOR 1254	ug/L	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)
AROCLOR 1260	ug/L	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)	ND(1)	ND(0.5)	ND(0.5)
Inorganic Compounds									
ALUMINUM	ug/L	11000	36000	80000	300	45000	1900	4900 J	110
ANTIMONY	ug/L	ND(7)	ND(7)	ND(7)	ND(10)	ND(7)	ND(10)	ND(9)	ND(7)
ARSENIC	ug/L	3 J	19 U	68	ND(4)	5	ND(3)	ND(4) UJ	ND(5) UJ
BARIUM	ug/L	120	2100	1400	11	570	77	170	6
BERYLLIUM	ug/L	ND(5)	ND(5)	7	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CADMIUM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	7	ND(5)	ND(5)	ND(5)
CALCIUM	ug/L	520000	33000	300000	54000 J	15000 J	20000 J	74000	140000
CHROMIUM (TOTAL)	ug/L	20	100	280	ND(10)	170	10	30	30
COBALT	ug/L	20	30	110	ND(10)	90	ND(10)	10	ND(10)
COPPER	ug/L	69	410	160	9	100	8	25	3
IRON	ug/L	19000	76000	220000	3100	130000	2000	14000	2300

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Summary of Ground Water Data
For November 1994

Location:		MW209	MW219	MW25	MW301	MW302	MW303	MW304	MW305
Sample ID:		RW-007	RW-056B	RW-041	RW-026	RW-027	RW-046	RW-022	RW-015
Date Sampled		11/08/94	11/15/94	11/14/94	11/11/94	11/11/94	11/14/94	11/11/94	11/10/94
Parameters	Units								
Inorganic Compounds (Cont'd)									
LEAD	ug/L	7 J	32 J	120 J	1 J	46 J	3	6 J	ND(1) UJ
MAGNESIUM, TOTAL	ug/L	260000	13000	47000	27000 J	17000 J	8300 J	37000	55000
MANGANESE DISSOLVED	ug/L	NS	1400	NS	NS	NS	NS	NS	NS
MERCURY	ug/L	ND(0.2)	ND(0.2)	0.4	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
NICKEL DISSOLVED	ug/L	50	30	390	ND(20)	210	ND(20)	30	ND(20)
NICKEL TOTAL	ug/L	50	30	390	ND(20)	210	ND(20)	30	ND(20)
POTASSIUM	ug/L	13000	11000	23000	6600	11000	8000	8800	22000
SELENIUM	ug/L	ND(7) UJ	ND(5)	ND(5)	ND(40) UJ	ND(7) UJ	ND(5) UJ	ND(8) UJ	ND(9) UJ
SILVER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
SODIUM	ug/L	23000	440000	370000	720000	310000	700000	680000	480000
THALLIUM	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
VANADIUM	ug/L	ND(50)	80	200	ND(50)	90	ND(50)	ND(50)	ND(50)
ZINC	ug/L	190	340	690	ND(10)	280	ND(10)	50	20
General Chemistry									
CYANIDE, TOTAL	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)

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Summit National Site
Summary of Ground Water Data
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Location:		MW306	MW307	MW309	MW319	MW4	MW401	MW401	MW402
Sample ID:		RW-054	RW-044	RW-006	RW-039	RW-001	RW-051	RW-052	RW-008
Date Sampled		11/15/94	11/14/94	11/08/94	11/14/94	11/08/94	11/15/94	11/15/94	11/09/94
								Dupl.	
Parameters	Units								
Volatile Organic Compounds									
ACETONE	ug/L	11 U,B	ND(10)	10 U,B	ND(10)	21 U,B	ND(10)	ND(10)	ND(10)
BENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMODICHLOROMETHANE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMOFORM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
BROMOMETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CARBON DISULFIDE	ug/L	ND(5)	ND(5) UJ	ND(5) UJ	ND(5) UJ	ND(5) UJ	ND(5)	ND(5)	ND(5) UJ
CARBON TETRACHLORIDE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROBENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10) UJ	ND(10)	ND(10) UJ	ND(10)	ND(10)	ND(10)
CHLOROFORM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CHLOROMETHANE	ug/L	ND(10)	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(10) UJ	ND(10)	ND(10)	ND(10) UJ
DIBROMOCHLOROMETHANE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5) UJ
DICHLOROPROPANE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, CIS 1,3-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, TRANS 1,3-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
ETHYLBENZENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
HEXANONE, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL ETHYL KETONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL ISOBUTYL KETONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYLENE CHLORIDE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
STYRENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHANE, 1,1,2,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TETRACHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TOLUENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TRICHLOROETHANE, 1,1,1-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW306	MW307	MW309	MW319	MW4	MW401	MW401	MW402
Sample ID:		RW-054	RW-044	RW-006	RW-039	RW-001	RW-051	RW-052	RW-008
Date Sampled		11/15/94	11/14/94	11/08/94	11/14/94	11/08/94	11/15/94	11/15/94	11/09/94
								Dupl.	
Parameters	Units								
Volatile Organic Compounds (Cont'd)									
TRICHLOROETHANE, 1,1,2-	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
TRICHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
VINYL CHLORIDE	ug/L	ND(10)	ND(10) UJ	ND(10)	ND(10) UJ	ND(10)	ND(10)	ND(10)	ND(10)
XYLENES (TOTAL)	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
Acid Extractables									
2,4,6-TRICHLOROPHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-NITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
CHLOROPHENOL, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROPHENOL, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYLPHENOL, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROPHENOL, 2,4-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
METHYL PHENOL, 2- (o-CRESOL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
METHYL PHENOL, 4- (p-CRESOL)	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROPHENOL, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PENTACHLOROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
PHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
TRICHLOROPHENOL, 2,4,5-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
Base/Neutral Extractables									
1,2,4-TRICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,2-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
1,3-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
2-METHYL-4,6-DINITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
3,3'-DICHLOROBENZIDINE	ug/L	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)	ND(20)
3,4-BENZOFLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
4-CHLORO-3-METHYLPHENOL	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ACENAPHTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)

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Summary of Ground Water Data
For November 1994

Location:		MW306	MW307	MW309	MW319	MW4	MW401	MW401	MW402
Sample ID:		RW-054	RW-044	RW-006	RW-039	RW-001	RW-051	RW-052	RW-008
Date Sampled		11/15/94	11/14/94	11/08/94	11/14/94	11/08/94	11/15/94	11/15/94	11/09/94
Parameters	Units							Dupl.	
Base/Neutral Extractables (Cont'd)									
ACENAPHTHYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(a)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(g,h,i)PERYLENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZO(k)FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BENZYL BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHOXY)METHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHYL) ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROISOPROPYL)ETHER	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
BROMOPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CARBAZOLE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROANILINE, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLORONAPHTHALENE, 2-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHLOROPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
CHRYSENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DI-N-OCTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZO(A,H)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIBENZOFURAN	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DICHLOROBENZENE, 1,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DIMETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,4-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,6-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
FLUORENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROBUTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)

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Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW306	MW307	MW309	MW319	MW4	MW401	MW401	MW402
Sample ID:		RW-054	RW-044	RW-006	RW-039	RW-001	RW-051	RW-052	RW-008
Date Sampled		11/15/94	11/14/94	11/08/94	11/14/94	11/08/94	11/15/94	11/15/94	11/09/94
								Dupl.	
Parameters	**Units**								
Base/Neutral Extractables (Cont'd)									
HEXACHLOROCYCLOPENTADIENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
HEXACHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
INDENO(1,2,3-CD)PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
ISOPHORONE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
N-NITROSODIPHENYLAMINE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NAPHTHALENE, 2-METHYL-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROANILINE, 2-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 3-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROANILINE, 4-	ug/L	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)	ND(50)
NITROBENZENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
NITROSODI-N-PROPYLAMINE, N-	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PHENANTHRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
PYRENE	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
Pesticides									
ALDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
CHLORDANE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHAN	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHYL	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
DICHLORODIPHENYL TRICHLOROETHA	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
DIELDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
ENDOSULFAN	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
ENDOSULFAN II	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
ENDOSULFAN SULFATE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
ENDRIN	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
ENDRIN ALDEHYDE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)	ND(0.1)
ENDRIN KETONE	ug/L	NS	NS	NS	NS	NS	NS	NS	NS
HEPTACHLOR	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)

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Summary of Ground Water Data
For November 1994

Location:		MW306	MW307	MW309	MW319	MW4	MW401	MW401	MW402
Sample ID:		RW-054	RW-044	RW-006	RW-039	RW-001	RW-051	RW-052	RW-008
Date Sampled		11/15/94	11/14/94	11/08/94	11/14/94	11/08/94	11/15/94	11/15/94	11/09/94
								Dupl.	
Parameters	Units								
Pesticides (Cont'd)									
HEPTACHLOR EPOXIDE	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, alpha-	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
HEXACHLOROCYCLOHEXANE, beta-	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, delta-	ug/L	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, gamma-	ug/L	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)	ND(0.02)
METHOXYCHLOR	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
TOXAPHENE	ug/L	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)	ND(1)
PCBs									
AROCLOR 1221	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1232	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1242/1016	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1248	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1254	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1260	ug/L	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)
Inorganic Compounds									
ALUMINUM	ug/L	270	3600	6100	30000	630	2400	2400	870
ANTIMONY	ug/L	ND(7)	ND(8)	ND(7)	ND(7)	ND(7)	ND(7)	ND(7)	ND(7)
ARSENIC	ug/L	ND(4)	ND(4)	4	9	ND(3)	4 U	ND(3)	ND(3) UJ
BARIUM	ug/L	13	88	610	690	93	75	75	59
BERYLLIUM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)	ND(5)
CADMIUM	ug/L	ND(5)	ND(5)	ND(5)	ND(5)	5	ND(5)	ND(5)	ND(5)
CALCIUM	ug/L	6100	5000 J	5200	26000 J	380000	2500	2300	2500
CHROMIUM (TOTAL)	ug/L	ND(10)	10	20	60	ND(10)	10	ND(10)	20
COBALT	ug/L	ND(10)	ND(10)	ND(10)	20	ND(10)	ND(10)	ND(10)	ND(10)
COPPER	ug/L	3	6	40	74	13	10	6	12
IRON	ug/L	360	3200	9600	34000	17000	5700	5300	2300

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Summary of Ground Water Data
For November 1994

Location:		MW306	MW307	MW309	MW319	MW4	MW401	MW401	MW402
Sample ID:		RW-054	RW-044	RW-006	RW-039	RW-001	RW-051	RW-052	RW-008
Date Sampled		11/15/94	11/14/94	11/08/94	11/14/94	11/08/94	11/15/94	11/15/94	11/09/94
								Dupl.	
Parameters	Units								
Inorganic Compounds (Cont'd)									
LEAD	ug/L	ND(1) UJ	3	10 J	17	ND(1) UJ	2 J	2 J	2 J
MAGNESIUM, TOTAL	ug/L	3300	2000 J	2300	6400 J	190000	1600	1500	970
MANGANESE DISSOLVED	ug/L	NS	NS	NS	NS	NS	NS	NS	NS
MERCURY	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
NICKEL DISSOLVED	ug/L	ND(20)	ND(20)	30	50	ND(20)	ND(20)	20	ND(20)
NICKEL TOTAL	ug/L	ND(20)	ND(20)	30	50	ND(20)	ND(20)	20	ND(20)
POTASSIUM	ug/L	3200	4400	4900	10000	15000	3100	3100	2900
SELENIUM	ug/L	ND(6)	ND(9) UJ	ND(8)	ND(7) UJ	ND(30)	ND(6)	ND(6)	ND(6) UJ
SILVER	ug/L	ND(10)	ND(10)	ND(10)	10	ND(10)	ND(10)	ND(10)	ND(10)
SODIUM	ug/L	430000	510000	490000	300000	70000	430000	430000	420000
THALLIUM	ug/L	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)	ND(10)
VANADIUM	ug/L	ND(50)	ND(50)	ND(50)	60	ND(50)	ND(50)	ND(50)	ND(50)
ZINC	ug/L	10 U	10	30	90	ND(10)	20 U	20 U	20
General Chemistry									
CYANIDE, TOTAL	mg/L	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW414	MW414	MW415
Sample ID:		RW-019	RW-020	RW-016
Date Sampled		11/10/94	11/10/94	11/10/94
			Dupl.	
Parameters	Units			
Volatile Organic Compounds				
ACETONE	ug/L	ND(10)	ND(10)	ND(10)
BENZENE	ug/L	ND(5)	ND(5)	ND(5)
BROMODICHLOROMETHANE	ug/L	ND(5) UJ	ND(5) UJ	ND(5) UJ
BROMOFORM	ug/L	ND(5)	ND(5)	ND(5)
BROMOMETHANE	ug/L	ND(10)	ND(10)	ND(10)
CARBON DISULFIDE	ug/L	ND(5)	ND(5)	ND(5) UJ
CARBON TETRACHLORIDE	ug/L	ND(5)	ND(5)	ND(5)
CHLOROBENZENE	ug/L	ND(5)	ND(5)	ND(5)
CHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10) UJ
CHLOROFORM	ug/L	ND(5)	ND(5)	ND(5)
CHLOROMETHANE	ug/L	ND(10)	ND(10)	ND(10) UJ
DIBROMOCHLOROMETHANE	ug/L	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,1-	ug/L	ND(5)	ND(5)	ND(5)
DICHLOROETHANE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,1-	ug/L	ND(5)	ND(5)	ND(5)
DICHLOROETHYLENE, 1,2-	ug/L	ND(5)	ND(5)	ND(5)
DICHLOROPROPANE, 1,2-	ug/L	ND(5) UJ	ND(5) UJ	ND(5)
DICHLOROPROPENE, CIS 1,3-	ug/L	ND(5)	ND(5)	ND(5)
DICHLOROPROPENE, TRANS 1,3-	ug/L	ND(5)	ND(5)	ND(5)
ETHYLBENZENE	ug/L	ND(5)	ND(5)	ND(5)
HEXANONE, 2-	ug/L	ND(10)	ND(10)	ND(10) UJ
METHYL ETHYL KETONE	ug/L	ND(10)	ND(10)	ND(10) UJ
METHYL ISOBUTYL KETONE	ug/L	ND(10) UJ	ND(10) UJ	ND(10)
METHYLENE CHLORIDE	ug/L	ND(5)	ND(5)	ND(5) UJ
STYRENE	ug/L	ND(5)	ND(5)	ND(5)
TETRACHLOROETHANE, 1,1,2,2-	ug/L	ND(5)	ND(5)	ND(5)
TETRACHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5)
TOLUENE	ug/L	ND(5) UJ	ND(5) UJ	ND(5)
TRICHLOROETHANE, 1,1,1-	ug/L	ND(5)	ND(5)	ND(5)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW414	MW414	MW415
Sample ID:		RW-019	RW-020	RW-016
Date Sampled		11/10/94	11/10/94	11/10/94
			Dupl.	
Parameters	Units			
Volatile Organic Compounds (Cont'd)				
TRICHLOROETHANE, 1,1,2-	ug/L	ND(5)	ND(5)	ND(5)
TRICHLOROETHYLENE	ug/L	ND(5)	ND(5)	ND(5)
VINYL CHLORIDE	ug/L	ND(10)	ND(10)	ND(10) UJ
XYLENES (TOTAL)	ug/L	ND(5) UJ	ND(5) UJ	ND(5)
Acid Extractables				
2,4,6-TRICHLOROPHENOL	ug/L	ND(10)	ND(10)	ND(10)
4-NITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)
CHLOROPHENOL, 2-	ug/L	ND(10)	ND(10)	ND(10)
DICHLOROPHENOL, 2,4-	ug/L	ND(10)	ND(10)	ND(10)
DIMETHYLPHENOL, 2,4-	ug/L	ND(10)	ND(10)	ND(10)
DINITROPHENOL, 2,4-	ug/L	ND(50)	ND(50)	ND(50)
METHYL PHENOL, 2- (o-CRESOL)	ug/L	ND(10)	ND(10)	ND(10)
METHYL PHENOL, 4- (p-CRESOL)	ug/L	ND(10)	ND(10)	ND(10)
NITROPHENOL, 2-	ug/L	ND(10)	ND(10)	ND(10)
PENTACHLOROPHENOL	ug/L	ND(50)	ND(50)	ND(50)
PHENOL	ug/L	ND(10)	ND(10)	ND(10)
TRICHLOROPHENOL, 2,4,5-	ug/L	ND(50)	ND(50)	ND(50)
Base/Neutral Extractables				
1,2,4-TRICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)
1,2-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)
1,3-DICHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)
2-METHYL-4,6-DINITROPHENOL	ug/L	ND(50)	ND(50)	ND(50)
3,3'-DICHLOROBENZIDINE	ug/L	ND(20)	ND(20)	ND(20)
3,4-BENZOFLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)
4-CHLORO-3-METHYLPHENOL	ug/L	ND(10)	ND(10)	ND(10)
ACENAPHTHENE	ug/L	ND(10)	ND(10)	ND(10)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW414	MW414	MW415
Sample ID:		RW-019	RW-020	RW-016
Date Sampled		11/10/94	11/10/94	11/10/94
			Dupl.	
Parameters	Units			
Base/Neutral Extractables (Cont'd)				
ACENAPHTHYLENE	ug/L	ND(10)	ND(10)	ND(10)
ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)
BENZO(a)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)
BENZO(a)PYRENE	ug/L	ND(10)	ND(10)	ND(10)
BENZO(g,h,i)PERYLENE	ug/L	ND(10)	ND(10)	ND(10)
BENZO(k)FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)
BENZYL BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHOXY)METHANE	ug/L	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROETHYL) ETHER	ug/L	ND(10)	ND(10)	ND(10)
BIS(2-CHLOROISOPROPYL)ETHER	ug/L	ND(10)	ND(10)	ND(10)
BIS(2-ETHYLHEXYL) PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)
BROMOPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)
CARBAZOLE	ug/L	ND(10)	ND(10)	ND(10)
CHLOROANILINE, 4-	ug/L	ND(10)	ND(10)	ND(10)
CHLORONAPHTHALENE, 2-	ug/L	ND(10)	ND(10)	ND(10)
CHLOROPHENYL-PHENYL ETHER, 4-	ug/L	ND(10)	ND(10)	ND(10)
CHRYSENE	ug/L	ND(10)	ND(10)	ND(10)
DI-N-BUTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)
DI-N-OCTYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)
DIBENZO(A,H)ANTHRACENE	ug/L	ND(10)	ND(10)	ND(10)
DIBENZOFURAN	ug/L	ND(10)	ND(10)	ND(10)
DICHLOROBENZENE, 1,4-	ug/L	ND(10)	ND(10)	ND(10)
DIETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)
DIMETHYL PHTHALATE	ug/L	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,4-	ug/L	ND(10)	ND(10)	ND(10)
DINITROTOLUENE, 2,6-	ug/L	ND(10)	ND(10)	ND(10)
FLUORANTHENE	ug/L	ND(10)	ND(10)	ND(10)
FLUORENE	ug/L	ND(10)	ND(10)	ND(10)
HEXACHLOROBENZENE	ug/L	ND(10)	ND(10)	ND(10)
HEXACHLOROBUTADIENE	ug/L	ND(10)	ND(10)	ND(10)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW414	MW414	MW415
Sample ID:		RW-019	RW-020	RW-016
Date Sampled		11/10/94	11/10/94	11/10/94
			Dupl.	
Parameters	Units			
Base/Neutral Extractables (Cont'd)				
HEXACHLOROCYCLOPENTADIENE	ug/L	ND(10)	ND(10)	ND(10)
HEXACHLOROETHANE	ug/L	ND(10)	ND(10)	ND(10)
INDENO(1,2,3-CD)PYRENE	ug/L	ND(10)	ND(10)	ND(10)
ISOPHORONE	ug/L	ND(10)	ND(10)	ND(10)
N-NITROSODIPHENYLAMINE	ug/L	ND(10)	ND(10)	ND(10)
NAPHTHALENE	ug/L	ND(10)	ND(10)	ND(10)
NAPHTHALENE, 2-METHYL-	ug/L	ND(10)	ND(10)	ND(10)
NITROANILINE, 2-	ug/L	ND(50)	ND(50)	ND(50)
NITROANILINE, 3-	ug/L	ND(50)	ND(50)	ND(50)
NITROANILINE, 4-	ug/L	ND(50)	ND(50)	ND(50)
NITROBENZENE	ug/L	ND(10)	ND(10)	ND(10)
NITROSODI-N-PROPYLAMINE, N-	ug/L	ND(10)	ND(10)	ND(10)
PHENANTHRENE	ug/L	ND(10)	ND(10)	ND(10)
PYRENE	ug/L	ND(10)	ND(10)	ND(10)
Pesticides				
ALDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.02)
CHLORDANE	ug/L	NS	NS	NS
DICHLORODIPHENYL DICHLOROETHAN	ug/L	ND(0.1)	ND(0.1)	ND(0.1)
DICHLORODIPHENYL DICHLOROETHYL	ug/L	ND(0.02)	ND(0.02)	ND(0.02)
DICHLORODIPHENYL TRICHLOROETHA	ug/L	ND(0.1)	ND(0.1)	ND(0.1)
DIELDRIN	ug/L	ND(0.02)	ND(0.02)	ND(0.02)
ENDOSULFAN	ug/L	ND(0.05)	ND(0.05)	ND(0.05)
ENDOSULFAN II	ug/L	ND(0.02)	ND(0.02)	ND(0.02)
ENDOSULFAN SULFATE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)
ENDRIN	ug/L	ND(0.05)	ND(0.05)	ND(0.05)
ENDRIN ALDEHYDE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)
ENDRIN KETONE	ug/L	ND(0.1)	ND(0.1)	ND(0.1)
HEPTACHLOR	ug/L	ND(0.02)	ND(0.02)	ND(0.02)

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW414	MW414	MW415
Sample ID:		RW-019	RW-020	RW-016
Date Sampled		11/10/94	11/10/94	11/10/94
			Dupl.	
Parameters	Units			
Pesticides (Cont'd)				
HEPTACHLOR EPOXIDE	ug/L	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, alpha-	ug/L	ND(0.02)	ND(0.02)	ND(0.02)
HEXACHLOROCYCLOHEXANE, beta-	ug/L	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, delta-	ug/L	ND(0.05)	ND(0.05)	ND(0.05)
HEXACHLOROCYCLOHEXANE, gamma-	ug/L	ND(0.02)	ND(0.02)	ND(0.02)
METHOXYCHLOR	ug/L	ND(0.5)	ND(0.5)	ND(0.5)
TOXAPHENE	ug/L	ND(1)	ND(1)	ND(1)
PCBs				
AROCLOR 1221	ug/L	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1232	ug/L	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1242/1016	ug/L	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1248	ug/L	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1254	ug/L	ND(0.5)	ND(0.5)	ND(0.5)
AROCLOR 1260	ug/L	ND(0.5)	ND(0.5)	ND(0.5)
Inorganic Compounds				
ALUMINUM	ug/L	890 J	970 J	280 J
ANTIMONY	ug/L	ND(7)	ND(9)	ND(7)
ARSENIC	ug/L	ND(4) UJ	ND(4) UJ	ND(4) UJ
BARIUM	ug/L	54	60	17
BERYLLIUM	ug/L	ND(5)	ND(5)	ND(5)
CADMIUM	ug/L	5	6	ND(5)
CALCIUM	ug/L	5100	5100	2700
CHROMIUM (TOTAL)	ug/L	ND(10)	10	ND(10)
COBALT	ug/L	ND(10)	ND(10)	ND(10)
COPPER	ug/L	14	15	3
IRON	ug/L	11000	10000	1600

Table 5

Summit National Site
Summary of Ground Water Data
For November 1994

Location:		MW414	MW414	MW415
Sample ID:		RW-019	RW-020	RW-016
Date Sampled		11/10/94	11/10/94	11/10/94
			Dupl.	
Parameters	Units			
Inorganic Compounds (Cont'd)				
LEAD	ug/L	3 J	3 J	2 J
MAGNESIUM, TOTAL	ug/L	2300	2300	1100
MANGANESE DISSOLVED	ug/L	NS	NS	NS
MERCURY	ug/L	ND(0.2)	ND(0.2)	ND(0.2)
NICKEL DISSOLVED	ug/L	38	40	ND(20)
NICKEL TOTAL	ug/L	38	40	ND(20)
POTASSIUM	ug/L	3600	3600	2900
SELENIUM	ug/L	ND(6) UJ	ND(9) UJ	ND(7) UJ
SILVER	ug/L	ND(10)	ND(10)	ND(10)
SODIUM	ug/L	570000	560000	490000
THALLIUM	ug/L	ND(10)	ND(10)	ND(10)
VANADIUM	ug/L	ND(50)	ND(50)	ND(50)
ZINC	ug/L	30	30	60
General Chemistry				
CYANIDE, TOTAL	mg/L	ND(0.005)	ND(0.005)	ND(0.005)

Table 6

Summit National Site
Summary of Dissolved Metals
For November 1994

Location:		MW105	MW117	MW108	MW219
Sample ID:		RW-009B	RW-013B	RW-017B	RW-056B
Date Sampled		11/09/94	11/10/94	11/10/94	11/15/94
Parameters	Units				
ALUMINUM DISSOLVED	ug/L	150	ND(50)	ND(50)	ND(50)
ANTIMONY DISSOLVED, LOW LEVEL	ug/L	ND(7)	ND(7)	ND(7)	10
ARSENIC DISSOLVED	ug/L	11	ND(4)	ND(4)	31
BARIUM DISSOLVED	ug/L	7	9	15	1000
BERYLLIUM DISSOLVED	ug/L	ND(5)	ND(5)	ND(5)	ND(5)
CADMIUM DISSOLVED	ug/L	7	5	ND(5)	ND(5)
CALCIUM DISSOLVED	ug/L	530000	510000	280000	270000
CHROMIUM DISSOLVED	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
COBALT DISSOLVED	ug/L	20	10	ND(10)	10
COPPER DISSOLVED	ug/L	8	11	7	7
IRON DISSOLVED	ug/L	160000	140000	2800	100
LEAD DISSOLVED, LOW LEVEL	ug/L	ND(3)	ND(2)	ND(1)	ND(1)
MAGNESIUM DISSOLVED	ug/L	230000	200000	100000	140000
MANGANESE DISSOLVED	ug/L	8500	6900	5300	1400
MERCURY DISSOLVED	ug/L	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)
NICKEL DISSOLVED	ug/L	30	50	40	30
POTASSIUM DISSOLVED	ug/L	5300	15000	7600	11000
SELENIUM DISSOLVED	ug/L	ND(10)	ND(9)	ND(7)	ND(7)
SILVER DISSOLVED	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
SODIUM DISSOLVED	ug/L	140000	160000	290000	340000
THALLIUM DISSOLVED	ug/L	ND(10)	ND(10)	ND(10)	ND(10)
VANADIUM DISSOLVED	ug/L	ND(50)	ND(50)	ND(50)	ND(50)
ZINC DISSOLVED	ug/L	120	150	ND(10)	ND(10)

January 25, 1995
Report No.: UnAvail
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PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
ADDRESS: 10400 WEST HIGGINS SUITE 103
ROSEMONT, IL 60081-
ATTENTION: MR. STEVE DAY

NUS CLIENT NO: 1750 0002
WORK ORDER NO: 55830
VENDOR NO: 14908201

SAMPLE ID: GW-011195-SNH-65
NUS SAMPLE NO: P0298301
P.O. NO.:

MW 106
(Preliminary)

DATE SAMPLED: 11-JAN-95
DATE RECEIVED: 13-JAN-95

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW	TCL - VOLATILES		
		1,1,1-trichloroethane	< 5	ug/L
		1,1,2,2-tetrachloroethane	< 5	ug/L
		1,1,2-trichloroethane	< 5	ug/L
		1,1-dichloroethane	< 5	ug/L
		1,1-dichloroethene [1,1-dichloroethylene]	< 5	ug/L
		1,2-dichloroethane	< 5	ug/L
		1,2-dichloroethene (total)	< 5	ug/L
		1,2-dichloropropane	< 5	ug/L
		2-butanone [methylethyl ketone] [MEK]	< 10	ug/L
		2-hexanone	< 10	ug/L
		4-methyl-2-pentanone [methyl isobutyl ketone] [MIBK]	< 10	ug/L
		acetone	< 10	ug/L
		benzene	< 5	ug/L
		bromodichloromethane [dichlorobromomethane]	< 5	ug/L
		bromomethane [methyl bromide]	< 10	ug/L
		carbon disulfide	< 5	ug/L
		carbon tetrachloride	< 5	ug/L
		chlorobenzene	< 5	ug/L
		chloroethane	< 10	ug/L
		chloroform	< 5	ug/L
		chloromethane [methyl chloride]	< 10	ug/L
		cis-1,3-dichloropropene	< 5	ug/L
		dibromochloromethane	< 5	ug/L
		dichloromethane [methylene chloride]	5 B	ug/L
		ethylbenzene	< 5	ug/L
		methylbenzene [toluene]	< 5	ug/L
		styrene	< 5	ug/L
		tetrachloroethene [tetrachloroethylene]	< 5	ug/L
		trans-1,3-dichloropropene	< 5	ug/L
		tribromomethane [bromoform]	< 5	ug/L
		trichloroethane [trichloroethylene]	< 5	ug/L
		vinyl chloride	< 10	ug/L

PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
SAMPLE ID: GW-011195-SMH-65
NUS SAMPLE NO: P0298301

LN	TEST CODE	DETERMINATION	RESULT	UNITS
		xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - SEMIVOLATILE EXTRACTABLES		
		1,2,4-trichlorobenzene	< 10	ug/L
		1,2-dichlorobenzene [o-dichlorobenzene]	< 10	ug/L
		1,3-dichlorobenzene [m-dichlorobenzene]	< 10	ug/L
		1,4-dichlorobenzene [p-dichlorobenzene]	< 10	ug/L
		2,4,5-trichlorophenol	< 50	ug/L
		2,4,6-trichlorophenol	< 10	ug/L
		2,4-dichlorophenol	< 10	ug/L
		2,4-dimethylphenol	< 10	ug/L
		2,4-dinitrophenol	< 50	ug/L
		2,4-dinitrotoluene	< 10	ug/L
		2,6-dinitrotoluene	< 10	ug/L
		2-chloronaphthalene	< 10	ug/L
		2-chlorophenol	< 10	ug/L
		2-methyl-4,6-dinitrophenol [4,6-dinitro-o-cresol]	< 50	ug/L
		2-methylnaphthalene	< 10	ug/L
		2-methylphenol [o-cresol]	< 10	ug/L
		2-nitroaniline	< 50	ug/L
		2-nitrophenol	< 10	ug/L
		3,3'-dichlorobenzidine	< 20	ug/L
		3,4-benzofluoranthene [benzo(b)fluoranthene]	< 10	ug/L
		3-nitroaniline	< 50	ug/L
		4-bromophenyl phenyl ether	< 10	ug/L
		4-chloro-3-methylphenol [p-chloro-m-cresol]	< 10	ug/L
		4-chloroaniline	< 10	ug/L
		4-chlorophenyl phenyl ether	< 10	ug/L
		4-methylphenol [p-cresol]	< 10	ug/L
		4-nitroaniline	< 50	ug/L
		4-nitrophenol	< 50	ug/L
		N-nitrosodi-n-propylamine	< 10	ug/L
		N-nitrosodiphenylamine	< 10	ug/L
		acenaphthene	< 10	ug/L
		acenaphthylene	< 10	ug/L
		anthracene	< 10	ug/L
		benzo(a)anthracene	< 10	ug/L
		benzo(a)pyrene	< 10	ug/L
		benzo(g,h,i)perylene	< 10	ug/L
		benzo(k)fluoranthene	< 10	ug/L

PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
SAMPLE ID: GW-011195-SWH-65
NUS SAMPLE NO: P0298301

LN	TEST CODE	DETERMINATION	RESULT	UNITS
		benzyl butyl phthalate	< 10	ug/L
		bis(2-chloroethoxy)methane	< 10	ug/L
		bis(2-chloroethyl)ether	< 10	ug/L
		bis(2-chloroisopropyl)ether [2,2'-oxybis(1-chloropropan	< 10	ug/L
		bis(2-ethylhexyl)phthalate	< 10	ug/L
		carbazole	< 10	ug/L
		chrysene	< 10	ug/L
		di-n-butyl phthalate	< 10	ug/L
		di-n-octyl phthalate	< 10	ug/L
		dibenz(a,h)anthracene	< 10	ug/L
		dibenzofuran	< 10	ug/L
		diethyl phthalate	< 10	ug/L
		dimethyl phthalate	< 10	ug/L
		fluoranthene	< 10	ug/L
		fluorene	< 10	ug/L
		hexachlorobenzene	< 10	ug/L
		hexachlorobutadiene	< 10	ug/L
		hexachlorocyclopentadiene	< 10	ug/L
		hexachloroethane	< 10	ug/L
		indeno(1,2,3-cd)pyrene	< 10	ug/L
		isophorone	< 10	ug/L
		naphthalene	< 10	ug/L
		nitrobenzene	< 10	ug/L
		pentachlorophenol	< 50	ug/L
		phenanthrene	< 10	ug/L
		phenol	< 10	ug/L
		pyrene	< 10	ug/L
5	ASBA	Antimony, Low Level (Sb)	< 9	ug/L
6	AASA	Arsenic, Total (As)	11	ug/L
7	AFEW	Iron, Total (Fe)	540000	ug/L
8	AALW	Aluminum, Total (Al)	130000	ug/L
9	ABAW	Barium, Total (Ba)	1300	ug/L
10	ACAW	Calcium, Total (Ca)	380000	ug/L
11	ACRW	Chromium, Total (Cr)	170	ug/L
12	ACOW	Cobalt, Total (Co)	210	ug/L
13	ACUW	Copper, Total (Cu)	340	ug/L
14	APBA	Lead, Low Level (Pb)	110	ug/L
15	AMGW	Magnesium, Total (Mg)	210000	ug/L

PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
SAMPLE ID: GW-011195-SNH-65
NUS SAMPLE NO: P0298301

LN	TEST CODE	DETERMINATION	RESULT	UNITS
16	AKW	Potassium, Total (K)	25000	ug/L
17	AZNW	Zinc, Total (Zn)	1400	ug/L
18	ABEW	Beryllium, Total (Be)	14	ug/L
19	ACDW	Cadmium, Total (Cd)	21	ug/L
20	AHGW	Mercury, Total (Hg)	< 0.2	ug/L
21	ASEA	Selenium, Total (Se)	< 5	ug/L
22	ANAW	Sodium, Total (Na)	65000	ug/L
23	ATLA	Thallium, Low Level (Tl)	< 20	ug/L
24	AVW	Vanadium, Total (V)	230	ug/L
25	1270	Cyanide, Total (CN)	< 0.005	mg/L
26	G120W	ORGANOCHLORINE PESTICIDES AND PCB'S		
		4,4'-DDD	< 0.1	ug/L
		4,4'-DDE	< 0.02	ug/L
		4,4'-DDT	< 0.1	ug/L
		PCB-1221	< 0.5	ug/L
		PCB-1232	< 0.5	ug/L
		PCB-1242/1016	< 0.5	ug/L
		PCB-1248	< 0.5	ug/L
		PCB-1254	< 0.5	ug/L
		PCB-1260	< 0.5	ug/L
		aldrin	< 0.02	ug/L
		alpha-BHC	< 0.02	ug/L
		beta-BHC	< 0.05	ug/L
		chlordane	< 0.1	ug/L
		delta-BHC	< 0.05	ug/L
		dieldrin	< 0.02	ug/L
		endosulfan I	< 0.05	ug/L
		endosulfan II	< 0.02	ug/L
		endosulfan sulfate	< 0.1	ug/L
		endrin	< 0.05	ug/L
		endrin aldehyde	< 0.1	ug/L
		gamma-BHC [lindane]	< 0.02	ug/L
		heptachlor	< 0.02	ug/L
		heptachlor epoxide	< 0.05	ug/L
		methoxychlor	< 0.5	ug/L
		toxaphene	< 1	ug/L
28	AAGW	Silver, Total (Ag)	< 10	ug/L
31	ANIW	Nickel, Total (Ni)	450	ug/L

January 25, 1995
Report No.: UnAvail
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PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
ADDRESS: 10400 WEST HIGGINS SUITE 103
ROSEMONT, IL 60081-
ATTENTION: MR. STEVE DAY

NUS CLIENT NO: 1750 0002
WORK ORDER NO: 55830
VENDOR NO: 14908201

SAMPLE ID: GW-011195-SMH-63 MW-113
NUS SAMPLE NO: P0298299 (Preliminary)
P.O. NO.:

DATE SAMPLED: 11-JAN-95
DATE RECEIVED: 13-JAN-95

LN	TEST CODE	DETERMINATION	RESULT	UNIT
1	OVTCW	TCL - VOLATILES		
		1,1,1-trichloroethane	< 5	ug/L
		1,1,2,2-tetrachloroethane	< 5	ug/L
		1,1,2-trichloroethane	< 5	ug/L
		1,1-dichloroethane	< 5	ug/L
		1,1-dichloroethene [1,1-dichloroethylene]	< 5	ug/L
		1,2-dichloroethane	< 5	ug/L
		1,2-dichloroethane (total)	< 5	ug/L
		1,2-dichloropropane	< 5	ug/L
		2-butanone [methylethyl ketone] [MEK]	< 10	ug/L
		2-hexanone	< 10	ug/L
		4-methyl-2-pentanone [methyl isobutyl ketone] [MIBK]	< 10	ug/L
		acetone	< 10	ug/L
		benzene	< 5	ug/L
		bromodichloromethane [dichlorobromomethane]	< 5	ug/L
		bromomethane [methyl bromide]	< 10	ug/L
		carbon disulfide	< 5	ug/L
		carbon tetrachloride	< 5	ug/L
		chlorobenzene	< 5	ug/L
		chloroethane	< 10	ug/L
		chloroform	< 5	ug/L
		chloromethane [methyl chloride]	< 10	ug/L
		cis-1,3-dichloropropene	< 5	ug/L
		dibromochloromethane	< 5	ug/L
		dichloromethane [methylene chloride]	5 B	ug/L
		ethylbenzene	< 5	ug/L
		methylbenzene [toluene]	< 5	ug/L
		styrene	< 5	ug/L
		tetrachloroethene [tetrachloroethylene]	< 5	ug/L
		trans-1,3-dichloropropene	< 5	ug/L

PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
SAMPLE ID: GW-011195-SMH-63
NUS SAMPLE NO: P0298299

LN	TEST CODE	DETERMINATION	RESULT	UNITS
		tribromomethane [bromoform]	< 5	ug/L
		trichloroethene [trichloroethylene]	< 5	ug/L
		vinyl chloride	< 10	ug/L
		xylenes (total)	< 5	ug/L

COMMENTS:
1 "B" indicates that dichloromethane [methylene chloride] was detected in the GC/MS lab blank at 6 ug/L.

PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
ADDRESS: 10400 WEST HIGGINS SUITE 103
ROSEMONT, IL 60081-
ATTENTION: MR. STEVE DAY

NUS CLIENT NO: 1750 0002
WORK ORDER NO: 55830
VENDOR NO: 14908201

SAMPLE ID: GW-011195-SMH-64
NUS SAMPLE NO: P0298300
P.O. NO.:

RINSATE

DATE SAMPLED: 11-JAN-95
DATE RECEIVED: 13-JAN-95

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTGW	TCL - VOLATILES		
		1,1,1-trichloroethane	< 5	ug/L
		1,1,2,2-tetrachloroethane	< 5	ug/L
		1,1,2-trichloroethane	< 5	ug/L
		1,1-dichloroethane	< 5	ug/L
		1,1-dichloroethene [1,1-dichloroethylene]	< 5	ug/L
		1,2-dichloroethane	< 5	ug/L
		1,2-dichloroethene (total)	< 5	ug/L
		1,2-dichloropropane	< 5	ug/L
		2-butanone [methylethyl ketone] [MEK]	< 10	ug/L
		2-hexanone	< 10	ug/L
		4-methyl-2-pentanone [methyl isobutyl ketone] [MIBK]	< 10	ug/L
		acetone	< 10	ug/L
		benzene	< 5	ug/L
		bromodichloromethane [dichlorobromomethane]	< 5	ug/L
		bromomethane [methyl bromide]	< 10	ug/L
		carbon disulfide	< 5	ug/L
		carbon tetrachloride	< 5	ug/L
		chlorobenzene	< 5	ug/L
		chloroethane	< 10	ug/L
		chloroform	10	ug/L
		chloromethane [methyl chloride]	< 10	ug/L
		cis-1,3-dichloropropene	< 5	ug/L
		dibromochloromethane	< 5	ug/L
		dichloromethane [methylene chloride]	6 B	ug/L
		ethylbenzene	< 5	ug/L
		methylbenzene [toluene]	< 5	ug/L
		styrene	< 5	ug/L
		tetrachloroethene [tetrachloroethylene]	< 5	ug/L
		trans-1,3-dichloropropene	< 5	ug/L
		tribromomethane [bromoform]	< 5	ug/L
		trichloroethene [trichloroethylene]	< 5	ug/L
		vinyl chloride	< 10	ug/L

PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
SAMPLE ID: GW-011195-SMH-64
NUS SAMPLE NO: P0298300

LN	TEST CODE	DETERMINATION	RESULT	UNITS
		xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - SEMIVOLATILE EXTRACTABLES		
		1,2,4-trichlorobenzene	< 10	ug/L
		1,2-dichlorobenzene [o-dichlorobenzene]	< 10	ug/L
		1,3-dichlorobenzene [m-dichlorobenzene]	< 10	ug/L
		1,4-dichlorobenzene [p-dichlorobenzene]	< 10	ug/L
		2,4,5-trichlorophenol	< 50	ug/L
		2,4,6-trichlorophenol	< 10	ug/L
		2,4-dichlorophenol	< 10	ug/L
		2,4-dimethylphenol	< 10	ug/L
		2,4-dinitrophenol	< 50	ug/L
		2,4-dinitrotoluene	< 10	ug/L
		2,6-dinitrotoluene	< 10	ug/L
		2-chloronaphthalene	< 10	ug/L
		2-chlorophenol	< 10	ug/L
		2-methyl-4,6-dinitrophenol [4,6-dinitro-o-cresol]	< 50	ug/L
		2-methylnaphthalene	< 10	ug/L
		2-methylphenol [o-cresol]	< 10	ug/L
		2-nitroaniline	< 50	ug/L
		2-nitrophenol	< 10	ug/L
		3,3'-dichlorobenzidine	< 20	ug/L
		3,4-benzofluoranthene [benzo(b)fluoranthene]	< 10	ug/L
		3-nitroaniline	< 50	ug/L
		4-bromophenyl phenyl ether	< 10	ug/L
		4-chloro-3-methylphenol [p-chloro-m-cresol]	< 10	ug/L
		4-chloroaniline	< 10	ug/L
		4-chlorophenyl phenyl ether	< 10	ug/L
		4-methylphenol [p-cresol]	< 10	ug/L
		4-nitroaniline	< 50	ug/L
		4-nitrophenol	< 50	ug/L
		N-nitrosodi-n-propylamine	< 10	ug/L
		N-nitrosodiphenylamine	< 10	ug/L
		acenaphthene	< 10	ug/L
		acenaphthylene	< 10	ug/L
		anthracene	< 10	ug/L
		benzo(a)anthracene	< 10	ug/L
		benzo(a)pyrene	< 10	ug/L
		benzo(g,h,i)perylene	< 10	ug/L
		benzo(k)fluoranthene	< 10	ug/L

PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
SAMPLE ID: GW-011195-BMH-64
NUS SAMPLE NO: P0298300

LN	TEST CODE	DETERMINATION	RESULT	UNITS
		benzyl butyl phthalate	< 10	ug/L
		bis(2-chloroethoxy)methane	< 10	ug/L
		bis(2-chloroethyl)ether	< 10	ug/L
		bis(2-chloroisopropyl)ether [2,2'-oxybis(1-chloropropan	< 10	ug/L
		bis(2-ethylhexyl)phthalate	< 10	ug/L
		carbazole	< 10	ug/L
		chrysene	< 10	ug/L
		di-n-butyl phthalate	< 10	ug/L
		di-n-octyl phthalate	< 10	ug/L
		dibenz(a,h)anthracene	< 10	ug/L
		dibenzofuran	< 10	ug/L
		diethyl phthalate	< 10	ug/L
		dimethyl phthalate	< 10	ug/L
		fluoranthene	< 10	ug/L
		fluorene	< 10	ug/L
		hexachlorobenzene	< 10	ug/L
		hexachlorobutadiene	< 10	ug/L
		hexachlorocyclopentadiene	< 10	ug/L
		hexachloroethane	< 10	ug/L
		indeno(1,2,3-cd)pyrene	< 10	ug/L
		isophorone	< 10	ug/L
		naphthalene	< 10	ug/L
		nitrobenzene	< 10	ug/L
		pentachlorophenol	< 50	ug/L
		phenanthrene	< 10	ug/L
		phenol	< 10	ug/L
		pyrene	< 10	ug/L
5	ASBA	Antimony, Low Level (Sb)	< 7	ug/L
6	AASA	Arsenic, Total (As)	11 *	ug/L
7	AFEW	Iron, Total (Fe)	100	ug/L
8	AALW	Aluminum, Total (Al)	< 50	ug/L
9	ABAW	Barium, Total (Ba)	< 5	ug/L
10	ACAW	Calcium, Total (Ca)	170	ug/L
11	ACRW	Chromium, Total (Cr)	< 10	ug/L
12	ACOW	Cobalt, Total (Co)	< 10	ug/L
13	ACUW	Copper, Total (Cu)	11	ug/L
14	APBA	Lead, Low Level (Pb)	< 1	ug/L
15	AMGW	Magnesium, Total (Mg)	60	ug/L

PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
SAMPLE ID: GW-011195-SMW-64
NUS SAMPLE NO: P0298300

LN	TEST CODE	DETERMINATION	RESULT
		benzyl butyl phthalate	< 10
		bis(2-chloroethoxy)methane	< 10
		bis(2-chloroethyl)ether	< 10
		bis(2-chloroisopropyl)ether [2,2'-oxybis(1-chloropropan	< 10
		bis(2-ethylhexyl)phthalate	< 10
		carbazole	< 10
		chrysene	< 10
		di-n-butyl phthalate	< 10
		di-n-octyl phthalate	< 10
		dibenz(a,h)anthracene	< 10
		dibenzofuran	< 10
		diethyl phthalate	< 10
		dimethyl phthalate	< 10
		fluoranthene	< 10
		fluorene	< 10
		hexachlorobenzene	< 10
		hexachlorobutadiene	< 10
		hexachlorocyclopentadiene	< 10
		hexachloroethane	< 10
		indeno(1,2,3-cd)pyrene	< 10
		isophorone	< 10
		naphthalene	< 10
		nitrobenzene	< 10
		pentachlorophenol	< 50
		phenanthrene	< 10
		phenol	< 10
		pyrene	< 10
5	ASBA	Antimony, Low Level (Sb)	< 7
6	AASA	Arsenic, Total (As)	11 *
7	AFEW	Iron, Total (Fe)	100
8	AALW	Aluminum, Total (Al)	< 50
9	ABAW	Barium, Total (Ba)	< 5
10	ACAW	Calcium, Total (Ca)	170
11	ACRW	Chromium, Total (Cr)	< 10
12	ACOW	Cobalt, Total (Co)	< 10
13	ACUW	Copper, Total (Cu)	11
14	APBA	Lead, Low Level (Pb)	< 1
15	AMGW	Magnesium, Total (Mg)	60

PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
SAMPLE ID: GW-011195-SMW-64
NUS SAMPLE NO: P0298300

LN	TEST CODE	DETERMINATION	RESULT	UNITS
		xylenes (total)	< 5	ug/L
3	OSVTCW	TCL - SEMIVOLATILE EXTRACTABLES		
		1,2,4-trichlorobenzene	< 10	ug/L
		1,2-dichlorobenzene [o-dichlorobenzene]	< 10	ug/L
		1,3-dichlorobenzene [m-dichlorobenzene]	< 10	ug/L
		1,4-dichlorobenzene [p-dichlorobenzene]	< 10	ug/L
		2,4,5-trichlorophenol	< 50	ug/L
		2,4,6-trichlorophenol	< 10	ug/L
		2,4-dichlorophenol	< 10	ug/L
		2,4-dimethylphenol	< 10	ug/L
		2,4-dinitrophenol	< 50	ug/L
		2,4-dinitrotoluene	< 10	ug/L
		2,6-dinitrotoluene	< 10	ug/L
		2-chloronaphthalene	< 10	ug/L
		2-chlorophenol	< 10	ug/L
		2-methyl-4,6-dinitrophenol [4,6-dinitro-o-cresol]	< 50	ug/L
		2-methylnaphthalene	< 10	ug/L
		2-methylphenol [o-cresol]	< 10	ug/L
		2-nitroaniline	< 50	ug/L
		2-nitrophenol	< 10	ug/L
		3,3'-dichlorobenzidine	< 20	ug/L
		3,4-benzofluoranthene [benzo(b)fluoranthene]	< 10	ug/L
		3-nitroaniline	< 50	ug/L
		4-bromophenyl phenyl ether	< 10	ug/L
		4-chloro-3-methylphenol [p-chloro-m-cresol]	< 10	ug/L
		4-chloroaniline	< 10	ug/L
		4-chlorophenyl phenyl ether	< 10	ug/L
		4-methylphenol [p-cresol]	< 10	ug/L
		4-nitroaniline	< 50	ug/L
		4-nitrophenol	< 50	ug/L
		N-nitrosodi-n-propylamine	< 10	ug/L
		N-nitrosodiphenylamine	< 10	ug/L
		acenaphthene	< 10	ug/L
		acenaphthylene	< 10	ug/L
		anthracene	< 10	ug/L
		benzo(a)anthracene	< 10	ug/L
		benzo(a)pyrene	< 10	ug/L
		benzo(g,h,i)perylene	< 10	ug/L
		benzo(k)fluoranthene	< 10	ug/L

PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
SAMPLE ID: GW-011195-SMH-64
NUS SAMPLE NO: P0298300

LN	TEST CODE	DETERMINATION	RESULT	UNITS
13	ACUW	Copper, Total (Cu)	11	ug/L
14	APBA	Lead, Low Level (Pb)	< 1	ug/L
15	AMGW	Magnesium, Total (Mg)	60	ug/L
16	AKW	Potassium, Total (K)	< 200	ug/L
17	AZNW	Zinc, Total (Zn)	< 10	ug/L
18	ABEW	Beryllium, Total (Be)	< 5	ug/L
19	ACDW	Cadmium, Total (Cd)	< 5	ug/L
20	AHGW	Mercury, Total (Hg)	< 0.2	ug/L
21	ASEA	Selenium, Total (Se)	< 5	ug/L
22	ANAW	Sodium, Total (Na)	800	ug/L
23	ATLA	Thallium, Low Level (Tl)	< 10	ug/L
24	AVW	Vanadium, Total (V)	< 50	ug/L
25	I270	Cyanide, Total (CN)	< 0.005	mg/L
26	G120W	ORGANOCHLORINE PESTICIDES AND PCB'S		
		4,4'-DDD	< 0.1	ug/L
		4,4'-DDE	< 0.02	ug/L
		4,4'-DDT	< 0.1	ug/L
		PCB-1221	< 0.5	ug/L
		PCB-1232	< 0.5	ug/L
		PCB-1242/1016	< 0.5	ug/L
		PCB-1248	< 0.5	ug/L
		PCB-1254	< 0.5	ug/L
		PCB-1260	< 0.5	ug/L
		aldrin	< 0.02	ug/L
		alpha-BHC	< 0.02	ug/L
		beta-BHC	< 0.05	ug/L
		chlordane	< 0.1	ug/L
		delta-BHC	< 0.05	ug/L
		dieldrin	< 0.02	ug/L
		endosulfan I	< 0.05	ug/L
		endosulfan II	< 0.02	ug/L
		endosulfan sulfate	< 0.1	ug/L
		endrin	< 0.05	ug/L
		endrin aldehyde	< 0.1	ug/L
		gamma-BHC [lindane]	< 0.02	ug/L
		heptachlor	< 0.02	ug/L
		heptachlor epoxide	< 0.05	ug/L
		methoxychlor	< 0.5	ug/L
		toxaphene	< 1	ug/L

PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
ADDRESS: 10400 WEST HIGGINS SUITE 103
ROSEMONT, IL 60081-
ATTENTION: MR. STEVE DAY

NUS CLIENT NO: 1750 0002
WORK ORDER NO: 55830
VENDOR NO: 14908201

SAMPLE ID: TRIP BLANK
NUS SAMPLE NO: P0298302
P.O. NO.:

DATE SAMPLED: UnAvail
DATE RECEIVED: 13-JAN-95

LN	TEST CODE	DETERMINATION	RESULT	UNITS
1	OVTCW	TCL - VOLATILES		
		1,1,1-trichloroethane	< 5	ug/L
		1,1,2,2-tetrachloroethane	< 5	ug/L
		1,1,2-trichloroethane	< 5	ug/L
		1,1-dichloroethane	< 5	ug/L
		1,1-dichloroethene [1,1-dichloroethylene]	< 5	ug/L
		1,2-dichloroethane	< 5	ug/L
		1,2-dichloroethene (total)	< 5	ug/L
		1,2-dichloropropane	< 5	ug/L
		2-butanone [methylethyl ketone] [MEK]	< 10	ug/L
		2-hexanone	< 10	ug/L
		4-methyl-2-pentanone [methyl isobutyl ketone] [MIBK]	< 10	ug/L
		acetone	< 10	ug/L
		benzene	< 5	ug/L
		bromodichloromethane [dichlorobromomethane]	< 5	ug/L
		bromomethane [methyl bromide]	< 10	ug/L
		carbon disulfide	< 5	ug/L
		carbon tetrachloride	< 5	ug/L
		chlorobenzene	< 5	ug/L
		chloroethane	< 10	ug/L
		chloroform	< 5	ug/L
		chloromethane [methyl chloride]	< 10	ug/L
		cis-1,3-dichloropropene	< 5	ug/L
		dibromochloromethane	< 5	ug/L
		dichloromethane [methylene chloride]	5 B	ug/L
		ethylbenzene	< 5	ug/L
		methylbenzene [toluene]	< 5	ug/L
		styrene	< 5	ug/L
		tetrachloroethene [tetrachloroethylene]	< 5	ug/L
		trans-1,3-dichloropropene	< 5	ug/L
		tribromomethane [bromoform]	< 5	ug/L
		trichloroethene [trichloroethylene]	< 5	ug/L
		vinyl chloride	< 10	ug/L

PRELIMINARY LABORATORY ANALYSIS REPORT

CLIENT NAME: CONESTOGA-ROVERS, INC.
SAMPLE ID: TRIP BLANK
NUS SAMPLE NO: P0298302

LN	TEST CODE	DETERMINATION	RESULT	UNITS
		xylenes (total)	< 5	ug/L

COMMENTS:
1 "B" indicates that dichloromethane [methylene chloride] was detected in the GC/MS lab blank at 6 ug/L.

C

ATTACHMENT C

GROUNDWATER DATA QUALITY ASSESSMENT AND VALIDATION

MEMO

TO: Steve Whillier REFERENCE NO: 6029-50

FROM: Nancy Bergstrom DATE: January 4, 1995

RE: Data Quality Assessment and Validation for Groundwater Samples Collected as Part of the First Groundwater Sampling Event at the Summit National Superfund Site in Deerfield Township of Portage County, Ohio

---

The following details an analytical data quality assessment and validation of the data resulting from the November 8, 1994 collection of four groundwater samples collected for the first groundwater sampling event from the above-referenced Site. The samples, identified in Table 1, were analyzed for the parameters presented in Table 2 by Halliburton NUS Laboratory of Pittsburgh, Pennsylvania using the analytical methods presented in Table 2. The quality control criteria used to assess the data were established by the methods in the associated quality assurance project plan.[1]

Holding Time Periods

The holding time periods for the analyses are listed in Table 3. The samples were prepared and analyzed within the required holding time periods as indicated by the sample collection and analysis dates on the chain-of-custody documents and the analytical report provided by the laboratory.

Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. Table 4 presents the data which should be qualified due to method blank contamination. The remainder of the method blank samples were reported to be free from detectable concentrations of target analytes indicating no additional laboratory contamination occurred.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for the organic analyses was monitored by surrogate compound percent recoveries. The acid fraction SVOCs for sample GW-110894-RW-002 should be qualified as unusable because acid surrogate

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[1]Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", Draft December 1990, revised June 1991 and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis", Draft October 1989.

recoveries were less than 10% in both the original and reextracted sample analysis. The remaining surrogate recoveries for the samples were within the acceptance criteria.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Percent Recoveries

To assess the long-term accuracy and precision of the analytical methods on sample matrices, MS/MSD percent recoveries and the relative percent difference (RPD) of the recoveries were determined. MS/MSD percent recoveries violated the acceptance criteria for calcium, iron and magnesium, but the sample concentrations were greater than four times the spike concentrations and qualification of the data was deemed unnecessary. The MS/MSD percent recoveries for selenium also violated the MS/MSD acceptance criteria, but the sample had been diluted for selenium analysis and the selenium spike was diluted out of range. Qualification of selenium MS/MSD data also was deemed unnecessary. Table 5 presents the data that should be qualified due to violation of MS/MSD acceptance criteria. All remaining MS/MSD percent recovery and RPD data were within the control limits, indicating an adequate level of accuracy and precision was achieved.

Check Sample Percent Recoveries

Check sample percent recoveries were examined to assess the overall performance and accuracy of the laboratory procedures. Table 6 presents the data that should be qualified due to violation of check sample acceptance criteria. The remaining check sample percent recoveries were within the laboratory control limits, indicating the methods achieved an adequate level of accuracy.

Completeness

Completeness, as required by the total number of usable results versus the total number of results, was required to be 90% or greater. The majority of the data were considered usable (with qualifications) and the completeness criteria was determined to have been met.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted.

NB/lmm/15

Attachments

cc: Steven Day

TABLE 1

SAMPLE IDENTIFICATION NUMBERS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

GW-110894-RW-001
GW-110894-RW-002
GW-110894-RW-005
GW-110894-RW-006

TABLE 2

ANALYTICAL METHODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Analytical Method*
Target Compound List (TCL) Volatile Organic Compounds (VOC)	SW-846 [1] 8260
TCL Semi-Volatile Organic Compounds (SVOC)	SW-846 8270
Pesticides/Polychlorinated biphenyls (PCB)	SW-846 8080
Target Analyte List (TAL) Metals	SW-846 6010/7000 series
Total Cyanide	ASTM [2] D2036

1 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA SW-846, 3rd edition, November 1986 and relevant updates.

2 "Annual Book of ASTM Standards", American Society for Testing and Materials, Philadelphia, Pennsylvania, 1987.

TABLE 3

HOLDING TIME PERIODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Holding Time Period*
TCL VOC; Total Cyanide	- 14 days from sample collection to completion of analysis
TCL SVOC; Pesticide/PCB	- 7 days from sample collection to extraction - 40 days from sample extraction to completion of analysis
TAL metals (except mercury)	- 6 months from sample collection to completion of analysis
Mercury	- 28 days from sample collection to completion of analysis

TABLE 4

QUALIFIED SAMPLES DUE TO METHOD BLANK CONTAMINATION SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY OHIO

Parameter	*Associated Samples*	*Qualified Sample Result* [1]
Acetone	GW-110894-RW-001	U(21) µg/L
	GW-110894-RW-005	U(11) µg/L
	GW-110894-RW-006	U(10) µg/L

[1] The sample results should be qualified as:
U ( ) - The analyte was analyzed for but was not detected above the reported sample quantitation limit listed in parentheses.

TABLE 5

QUALIFIED SAMPLES DUE TO VIOLATION OF MS/MSD ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier* [1]
GW-110894-RW-001	Lead	UJ
GW-110894-RW-002		J
GW-110894-RW-005		J
GW-110894-RW-006		J

[1] The sample results should be qualified as:
J - The assoicated value is an estimated quantity.
UJ - The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

TABLE 6

QUALIFIED SAMPLE DATA DUE TO VIOLATION OF CHECK SAMPLE ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier* [1]
GW-110894-RW-001	Carbon disulfide	UJ
GW-110894-RW-002		UJ
GW-110894-RW-005		UJ
GW-110894-RW-006		UJ
GW-110894-RW-001	Chloroethane	UJ
GW-110894-RW-002		UJ
GW-110894-RW-005		UJ
GW-110894-RW-006		UJ
GW-110894-RW-001	Chloromethane	UJ
GW-110894-RW-002		UJ
GW-110894-RW-005		UJ
GW-110894-RW-006		UJ
GW-110894-RW-002	Vinyl chloride	UJ

[1] The sample results should be qualified as:
UJ - The material was analyzed for but was not detected. The sample quantitation limit is an estimated quantity.

MEMO

TO: Steve Whillier REFERENCE NO: 6029-50

FROM: Nancy Bergstrom DATE: January 4, 1995

RE: Data Quality Assessment and Validation for Groundwater Samples Collected as Part of the First Groundwater Sampling Event at the Summit National Superfund Site in Deerfield Township of Portage County, Ohio

---

The following details an analytical data quality assessment of the data resulting from the November 8 through 10, 1994 collection of multiple groundwater samples collected for the first groundwater sampling event from the above-referenced Site. The samples, identified in Table 1, were analyzed for the parameters presented in Table 2 by Halliburton NUS Laboratory in Pittsburgh, Pennsylvania using the analytical methods presented in Table 2. The quality control criteria used to assess the data were established by the methods in the associated quality assurance project plan.[1]

Holding Time Periods

The holding time periods for the analyses are listed in Table 3. The samples were prepared and analyzed within the required holding time periods as indicated by the sample collection and analysis dates on the chain-of-custody documents and the analytical report provided by the laboratory.

Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. Acetone in sample GW-111094-RW-014 should be qualified as U(12) µg/L, not detected since acetone was detected in the associated method blank sample. The remainder of the method blank samples were reported to be free from detectable concentrations of target analytes indicating no additional laboratory contamination occurred.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for the organic analyses was monitored by surrogate compound percent recoveries. Table 4 presents the data that should be qualified due

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[1]Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", Draft December 1990, revised June 1991 and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis", Draft October 1989.

to violation of surrogate recovery acceptance criteria. The remaining surrogate recoveries for the samples were within the acceptance criteria.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Percent Recoveries

To assess the long-term accuracy and precision of the analytical methods on sample matrices, MS/MSD percent recoveries and the relative percent difference (RPD) of the recoveries were determined. Table 5 presents the data that should be qualified due to violation of MS/MSD acceptance criteria. All remaining MS/MSD percent recovery and RPD data were within the control limits, indicating an adequate level of accuracy and precision was achieved.

Check Sample Percent Recoveries

Check sample percent recoveries were examined to assess the overall performance and accuracy of the laboratory procedures. Table 6 presents the data that should be qualified due to violation of check sample acceptance criteria. The remaining check sample percent recoveries were within the laboratory control limits, indicating the methods achieved an adequate level of accuracy.

Field Duplicate Samples

To assess the overall field and laboratory precision of the sampling and analytical effort, one field duplicate sample set was collected. Table 7 presents the results of the detected analytes in the field duplicate sample set. The RPDs calculated for field duplicate sample set GW-110894-RW-004/005 were deemed to be unacceptable and the detected compounds in the investigative sample should be qualified as estimated (J).

Trip Blank Samples

To monitor for cross contamination of VOC samples during sample transport and storage, one trip blank sample was submitted with the investigative samples. The trip blank sample remained free from contamination and qualification of the sample data was unnecessary.

Completeness

Completeness, as required by the total number of usable results versus the total number of results, was required to be 90% or greater. The majority of the data were considered usable (with qualifications) and the completeness criteria was determined to have been met.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted.

NB/lmm/4

Attachments

cc: Steven Day

TABLE 1

SAMPLE IDENTIFICATION NUMBERS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

GW-110894-RW-003A
GW-110994-RW-003B
GW-110894-RW-004
GW-110894-RW-007
GW-110994-RW-008
GW-110994-RW-009A
GW-110994-RW-009B
GW-110994-RW-010
GW-111094-RW-011
GW-111094-RW-012A
GW-111094-RW-013
GW-111094-RW-014
GW-111094-RW-015
GW-111094-RW-016

TABLE 2

ANALYTICAL METHODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Analytical Method*	
Target Compound List (TCL) Volatile Organic Compunds (VOC)	SW-846 [1]	8260
TCL Semi-Volatile Organic Compounds (SVOC)	SW-846	8270
TCL Pesticides/Polychlorinated biphenyls (PCB)	SW-846	8080
Target Analyte List (TAL) Metals	SW-846	6010/7000 series
Total Cyanide	ASTM [2]	D2036

[1] "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA SW-846, 3rd edition, November 1986 and relevant updates.

[2] "Annual Book of ASTM Standards", American Society for Testing and Materials, Philadelphia, Pennsylvania, 1987.

TABLE 3

HOLDING TIME PERIODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Holding Time Period*
TCL VOC; Total Cyanide	- 14 days from sample collection to completion of analysis
TCL SVOC; TCL Pesticides/PCB	- 7 days from sample collection to extraction - 40 days from extraction to completion of analysis
TAL Metals (except Mercury)	- 6 months from sample collection to completion of analysis
Mercury	- 28 days from sample collection to completion of analysis

TABLE 4

QUALIFIED SAMPLE DATA DUE TO VIOLATION OF SURROGATE RECOVERY ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Fraction*	*Qualifier* [1]
GW-110894-RW-007	Acid SVOC	R
GW-110994-RW-010	Base/neutral SVOC	R
	VOC	J/UJ

[1] The sample results should be qualified as:
R - The data are unusable (compund may or may not be present). Resampling and reanalysis is necessary for verification.
J - The associated numerical value is an estimated quantity.
UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

TABLE 5

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF MS/MSD ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIRLD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier* [1]
GW-110994-RW-003B,	Arsenic	J/UJ
GW-110894-RW-004,	Lead	J/UJ
GW-110894-RW-007,	Selenium	J/UJ
GW-110994-RW-008,		
GW-110994 -RW-009A,		
GW-110994-RW-009B,		
GW-110994-RW-010,		
GW-111094-RW-011,		
GW-111094-RW-013,		
GW-111094-RW-014,		
GW-111094-RW-015		

[1] The sample results should be qualified as:
J - The assoicated value is an estimated quantity for detected analytes.
UJ - The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

TABLE 6

QUALIFIED SAMPLE DATA DUE TO VIOLATION OF CHECK SAMPLE ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier*
GW-110894-RW-003A,	Bromodichloromethane	UJ
GW-110894-RW-007,	Carbon disulfide	UJ
GW-110994-RW-009A,	Dichloromethane	UJ
GW-110994-RW-010,		
GW-111094-RW-011,		
GW-111094-RW-013,		
GW-111094-RW-015,		
GW-111094-RW-016		
GW-110894-RW-004,	1,2-Dichloroethene (total)	UJ
GW-110994-RW-008,	Carbon disulfide	UJ
GW-111094-RW-014	Chloromethane	UJ
GW-111094-RW-012A	1,1,2-trichloroethane	UJ
	1,2-Dichloropropane	UJ
	4-Methyl-2-pentanone	UJ
	Bromodichloroethane	UJ
	Dibromochloromethane	UJ
	Methyl benzene	UJ
	Xylenes (total)	UJ

TABLE 7

SUMMARY OF DETECTED ANALYTES IN FIELD DUPLICATE SAMPLE SET SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Investigative Sample GW-110894-RW-004 (µg/L)*	*Duplicate Sample GW-110894-RW-005 (µg/L)*	*RPD* [1]
Iron	9,400	47,000	133
Aluminum	5,400	16,000	99
Barium	550	270	68
Calcium	5,600	310,000	193
Chromium	40	80	67
Copper	39	170	125
Lead	13	25	63
Magnesium	2,300	120,000	192
Potassium	4,900	22,000	127
Zinc	50	370	152
Sodium	530,000	490,000	7.8
Nickel	30	150	133
Manganese	81	1,400	178
Arsenic	ND [2] (3)	18	NC [3]
Cobalt	ND(10)	40	NC
Vanadium	ND(50)	60	NC

[1] RPD = Realtive Percent Difference
[2] ND ( ) = Not detected at the quantitation limit listed in parentheses.
[3] NC = Not calculable

MEMO

TO: Steve Whillier REFERENCE NO: 6029-50

FROM: Nancy Bergstrom DATE: January 5, 1995

RE: Data Quality Assessment and Validation for Groundwater Samples Collected as Part of the First Groundwater Sampling Event at the Summit National Superfund Site in Deerfield Township of Portage County, Ohio

---

The following details an analytical data quality assessment of the data resulting from the November 10 and 11, 1994 collection of multiple groundwater samples collected for the first groundwater sampling event from the above-referenced Site. The samples, identified in Table 1, were analyzed for the parameters presented in Table 2 by Halliburton NUS Laboratory of Pittsburgh, Pennsylvania using the analytical methods presented in Table 2. The quality control criteria used to assess the data were established by the methods in the associated quality assurance project plan.[1]

Holding Time Periods

The holding time periods for the analyses are listed in Table 3. The reextraction of sample GW-111094-RW-017 for semi-volatile organic compounds (SVOC) analysis was performed outside of the holding time period criteria. All SVOC results for the sample were below the qualification limits and the quantitation limits should be qualified as estimated (UJ). Samples GW-111194-RW-023 and 024 were also reextracted and reanalyzed outside of holding time period criteria for SVOC analysis, but are qualified for violation of surrogate compound percent recoveries. The remaining samples were prepared and analyzed within the required holding time periods as indicated by the sample collection and analysis dates on the chain-of-custody document and the analytical report provided by the laboratory.

Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. The method blank samples were reported to be free from detectable concentrations of target analytes indicating no significant laboratory contamination occurred.

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[1]Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", Draft December 1990, revised June 1991 and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis", Draft October 1989.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for the organic analyses was monitored by surrogate compound percent recoveries. Table 4 presents the data which should be qualified due to violation of surrogate recovery acceptance criteria. Surrogate recoveries were violated in the original SVOC analysis for sample GW-111094-RW-017, but were recovered in the analysis of the re-extracted sample within the acceptance range and further qualification of the data was deemed unnecessary. The remaining surrogate recoveries for the samples were within the acceptance criteria.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Percent Recoveries

To assess the long-term accuracy and precision of the analytical methods on sample matrices, MS/MSD percent recoveries and the relative percent difference (RPD) of the recoveries were determined. Table 5 presents the data which should be qualified due to violation of MS/MSD acceptance criteria. Mercury was recovered out of range in one matrix spike sample, but qualification of the associated data was unnecessary. All remaining MS/MSD percent recovery and RPD data were within the control limits, indicating an adequate level of accuracy and precision was achieved.

Check Sample Percent Recoveries

Check sample percent recoveries were examined to assess the overall performance and accuracy of the laboratory procedures. Table 6 presents the data which should be qualified due to violation of check sample percent recovery acceptance criteria. The remaining check sample percent recoveries were within the laboratory control limits, indicating the methods achieved an adequate level of accuracy.

Field Duplicate Samples

To assess the overall field and laboratory precision of the sampling and analytical effort, one field duplicate sample set was collected. Table 7 presents the results of the detected analytes in the field duplicate sample set.

Trip Blank Sample

To monitor for cross contamination of VOC samples during sample transport and storage, one trip blank sample was submitted with the investigative samples. The trip blank sample remained free from contamination and qualification of the sample data was unnecessary.

Field Blank Sample

A field blank sample was collected to evaluate the effectiveness of the field decontamination procedures. Chloroform and sodium were detected in the field blank sample. Chloroform was not detected and sodium was detected at

concentrations greater than five times the field blank sample concentration in all associated samples and qualification of the data was deemed unnecessary. The remainder of the field blank sample data were reported to be free from detectable concentrations of target analytes indicating no additional field contamination occurred.

Completeness

Completeness, as required by the total number of usable results versus the total number of results was required to be 90% or greater. The majority of the data were considered usable (with qualifications) and the completeness criteria was determined to have been met.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted.

NB/mk/13

Attachments

cc: Steven Day

TABLE 1

SAMPLE IDENTIFICATION NUMBERS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

GW-111094-RW-016
GW-111094-RW-017
GW-111094-RW-019
GW-111094-RW-020
GW-111194-RW-003C
GW-111194-RW-013B
GW-111194-RW-017B
GW-111194-RW-021
GW-111194-RW-022
GW-111194-RW-023
GW-111194-RW-024
GW-111194-RW-025

TABLE 2

ANALYTICAL METHODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Analytical Method*	
Target Compound List (TCL) Volatile Organic Compounds (VOC)	SW-846 [1]	8260
TCL Semi-Volatile Organic Compounds (SVOC)	SW-846	8270
TCL Pesticide/Polychlorinated biphenyls (PCB)	SW-846	8080
Target Analyte List (TAL) Metals	SW-846	6010/7000 series
Total Cyanide	ASTM [2]	D2036

[1] "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA SW-846, 3rd edition, November 1986 and relevant updates.

[2] "Annual Book of ASTM Standards", American Society for Testing and Materials, Philadelphia, Pennsylvania, 1987.

TABLE 3

HOLDING TIME PERIODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Holding Time Period*
TCL VOC; Total Cyanide	- 14 days from sample collection to completion of analysis
TCL SVOC; TCL Pesticides/PCB	- 7 days from sample collection to extraction - 40 days from extraction to completion of analysis
TAL Metals (except Mercury)	- 6 months from sample collection to completion of analysis
Mercury	- 28 days from sample collection to completion of analysis

TABLE 4

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF SURROGATE RECOVERY ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Fraction*	*Qualifier* [1]
GW-111194-RW-023, GW-111194-RW-024	Acid SVOC	R
GW-111194-RW-024	VOC	UJ

[1] The sample result should be qualified as:
UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.
R - The data are unusable (compound may or may not be present). Resampling and reanalysis is necessary for verification.

TABLE 5

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF MS/MSD ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier* [1]
GW-111094-RW-016,	Arsenic	J/UJ
GW-111094-RW-017,	Lead	J/UJ
GW-111094-RW-019,	Selenium	J/UJ
GW-111094-RW-020,		
GW-111194-RW-013B,		
GW-111194-RW-017B,		
GW-111194-RW-021,		
GW-111194-RW-022,		
GW-111194-RW-023,		
GW-111194-RW-024,		
GW-111194-RW-025		
GW-111094-RW-016,	Aluminum	J/NR
GW-111094-RW-017,		
GW-111094-RW-019,		
GW-111094-RW-020		
GW-111194-RW-021,		
GW-111194-RW-022,		
GW-111194-RW-023,		
GW-111194-RW-024,		
GW-111194-RW-025		

[1] The sample data should be qualified as:

J - The associated numerical value is an estimated quantity for detected analytes.

UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimate and may be inaccurate or imprecise.

NR - Qualification of the data is not required for non-detected analytes.

TABLE 6

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF CHECK SAMPLE PERCENT RECOVERY ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier* [1]
GW-111094-RW-017	Carbon disulfide	UJ
	Dichloromethane	UJ
GW-111094-RW-019, GW-111094-RW-020	1,2-Dichloropropane	UJ
	4-Methyl-2-pentanone	UJ
	Bromodichloromethane	UJ
	Methylbenzene	UJ
	Xylenes	UJ
GW-111194-RW-021, GW-111194-RW-022, GW-111194-RW-023, GW-111194-RW-024, GW-111194-RW-025	Carbon disulfide	UJ
	Chloromethane	UJ
	Dibromodichloromethane	UJ

[1] Sample data should be qualified as:
UJ - The material was analyzed for but was not detected. The sample quantitation limit is an estimated quantity.

TABLE 7

SUMMARY OF DETECTED ANALYTES
FIELD DUPLICATE SAMPLE SET
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Investigative Sample GW-111094-RW-019 (µg/L)*	*Duplicate Sample GW-111094-RW-020 (µg/L)*	*RPD* [1]
Iron	11,000	10,000	9.5
Aluminum	890	970	8.6
Barium	54	60	10.5
Calcium	5,100	5,100	0
Copper	14	15	6.9
Lead	3	3	0
Magnesium	2,300	2,300	0
Potassium	3,600	3,600	0
Zinc	30	30	0
Cadmium	5	6	18.2
Sodium	570,000	560,000	1.8
Nickel	38	40	5.1
Manganese	86	81	6.0
Chromium	ND[2](10)	10	NC [3]

[1] RPD = Relative Percent Difference.
[2] ND() = Not detected at the quantitation limit listed in parentheses.
[3] NC = Not calculable.

MEMO

TO: Steve Whillier REFERENCE NO: 6029-50

FROM: Nancy Bergstrom DATE: January 4, 1995

RE: Data Quality Assessment and Validation for Groundwater Samples Collected as Part of the First Groundwater Sampling Event at the Summit National Superfund Site in Deerfield Township of Portage County, Ohio

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The following details an analytical data quality assessment of the data resulting from the November 11, 12 and 14, 1994 collection of multiple groundwater samples collected for the first groundwater sampling event from the above-referenced Site. The samples, identified in Table 1, were analyzed for the parameters presented in Table 2 by Halliburton NUS Laboratory in Pittsburgh, Pennsylvania using the analytical methods presented in Table 2. The quality control criteria used to assess the data were established by the methods in the associated quality assurance project plan.[1]

Holding Time Periods

The holding time periods for the analyses are listed in Table 3. The reextraction of samples GW-111494-RW-036 and GW-111494-RW-038 for semi-volatile organic compounds (SVOC) analysis were performed outside of the holding time period criteria. All detected SVOC results for both samples should be qualified as estimated (J) or the quantitation limit should be qualified as estimated (UJ) for non-detected SVOC results. The remaining samples were prepared and analyzed within the required holding time periods as indicated by the sample collection and analysis dates on the chain-of-custody document and the analytical report provided by the laboratory.

Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. Sodium and acetone were detected in two method blank samples, but the associated samples contained the analytes at concentrations exceeding five times the method blank concentration or exhibited no contamination and qualification of the data was deemed unnecessary. The remainder of the method blank samples were reported to

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[1]Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", Draft December 1990, revised June 1991 and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis", Draft October 1989.

be free from detectable concentrations of target analytes indicating no significant laboratory contamination occurred.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for the organic analyses was monitored by surrogate compound percent recoveries. Two samples had acid surrogates which violated the surrogate recovery acceptance criteria, but were reextracted. The surrogates were recovered in the reextracted analyses within acceptable range and further qualification of the data was deemed unnecessary. The remaining surrogate recoveries for the samples were within the acceptance criteria.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Percent Recoveries

To assess the long-term accuracy and precision of the analytical methods on sample matrices, MS/MSD percent recoveries and the relative percent difference (RPD) of the recoveries were determined. Table 4 presents the data which should be qualified due to violation of MS/MSD acceptance criteria. Additionally, the MS/MSD percent recoveries reported for Aroclor-1242 were outside of the acceptance criteria. No qualification of the associated data is required, however, since the MS/MSD sample was from a non-project source. All remaining MS/MSD percent recovery and RPD data were within the control limits, indicating an adequate level of accuracy and precision was achieved.

Check Sample Percent Recoveries

Check sample percent recoveries were examined to assess the overall performance and accuracy of the laboratory procedures. Table 5 presents the data which should be qualified due to violation of check sample percent recoveries. The remaining check sample percent recoveries were within the laboratory control limits, indicating the methods achieved an adequate level of accuracy.

Field Duplicate Samples

To assess the overall field and laboratory precision of the sampling and analytical effort, one field duplicate sample set was collected. Table 6 presents the results of the detected analytes in the field duplicate sample set.

Trip Blank Samples

To monitor for cross contamination of VOC samples during sample transport and storage, one trip blank sample was submitted with the investigative samples. The trip blank sample remained free from contamination and qualification of the sample data was unnecessary.

Field Blank Samples

Field blank samples were collected to evaluate the effectiveness of the field decontamination procedures. Sample data that should be qualified due to field blank sample contamination are presented in Table 7. No other qualification due to field blank sample contamination was deemed necessary.

Completeness

Completeness, as required by the total number of usable results versus the total number of results was required to be 90% or greater. The majority of the data were considered usable (with qualifications) and the completeness criteria was determined to have been met.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted.

NB/lmm/12

Attachments

cc: Steven Day

TABLE 1

SAMPLE IDENTIFICATION NUMBERS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

GW-111294-RW-018B
GW-111194-RW-026
GW-111194-RW-027
GW-111294-RW-028
GW-111294-RW-029
GW-111294-RW-030
GW-111294-RW-031
GW-111294-RW-032
GW-111294-RW-033
GW-111294-RW-034
GW-111294-RW-035
GW-111494-RW-036
GW-111494-RW-037
GW-111494-RW-038

TABLE 2

ANALYTICAL METHODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Analytical Method*	
Target Compound List (TCL) Volatile Organic Compounds (VOC)	SW-846 [1]	8260
TCL Semi-Volatile Organic Compounds (SVOC)	SW-846	8270
TCL Pesticides/Polychlorinated biphenyls (PCB)	SW-846	8080
Target Analyte List (TAL) Metals	SW-846	6010/7000 series
Total Cyanide	ASTM [2]	D2036

[1] "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA SW-846, 3rd edition, November 1986 and relevant updates.

[2] "Annual Book of ASTM Standards", American Society for Testing and Materials, Philadelphia, Pennsylvania, 1987.

TABLE 3

HOLDING TIME PERIODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Holding Time Period*
TCL VOC; Total Cyanide	- 14 days from sample collection to completion of analysis
TCL SVOC; TCL Pesticides/PCB	- 7 days from sample collection to extraction - 40 days from extraction to completion of analysis
TAL Metals (except Mercury)	- 6 months from sample collection to completion of analysis
Mercury	- 28 days from sample collection to completion of analysis

TABLE 4

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF MS/MSD ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier* [1]
GW-111194-RW-026,	Lead	J/UJ
GW-111194-RW-027,	Selenium	J/UJ
GW-111294-RW-028,		
GW-111294-RW-029,		
GW-111294-RW-031 total & dissolved,		
GW-111294-RW-032,		
GW-111294-RW-033,		
GW-111294-RW-034,		
GW-111294-RW-035		
GW-111494-RW-036,		
GW-111494-RW-037,		
GW-111494-RW-038		

[1] The sample result should be qualified as:

J - The associated numerical value is an estimated quantity for detected analytes.

UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

TABLE 5

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF CHECK SAMPLE PERCENT RECOVERY SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier* [1]
GW-111194-RW-026,	Calcium	J/UJ
GW-111194-RW-027,	Magnesium	J/UJ
GW-111294-RW-028,		
GW-111294-RW-029,		
GW-111294-RW-031 total,		
GW-111294-RW-032,		
GW-111294-RW-033,		
GW-111294-RW-034,		
GW-111294-RW-035		
GW-111494-RW-036,		
GW-111494-RW-037,		
GW-111494-RW-038		
GW-111294-RW-030	Chloroethane	UJ
	Chloromethane	UJ
	Vinyl chloride	UJ
	Carbon disulfide	UJ
GW-111194-RW-026,	1,1,2-Trichloroethane	UJ
GW-111194-RW-027,	1,2-Dichloropropane	UJ
GW-111294-RW-028,	4-Methyl-2-pentanone	UJ
GW-111294-RW-029	Bromodichloromethane	UJ
	Dibromochloromethane	UJ
	Methylbenzene	UJ
	Xylenes	UJ

1 J - The associated numerical value is an estimated quantity for detected analytes.
UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

TABLE 6

SUMMARY OF DETECTED ANALYTES
FIELD DUPLICATE SAMPLE SET
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Investigative Sample GW-111494-RW-036 (µg/L)*	*Duplicate Sample GW-111494-RW-038 (µg/L)*	*RPD* [1]
Dimethylphthalate	800 D [2]	660 D	19.2
Iron	110,000	110,000	0
Barium	13	13	0
Calcium	360,000	360,000	0
Cobalt	20	30	40.0
Lead	1	ND [3] (1)	NC [4]
Magnesium	130,000	120,000	8.0
Potassium	12,000	11,000	8.7
Zinc	200	210	4.9
Cadmium	5	7	33.3
Sodium	170,000	160,000	6.1
Manganese	6,500	6,500	0

1 RPD = Relative Percent Difference
2 D = Indicates that the results were obtained from an analysis performed at a secondary dilution.
3 ND( ) = Not detected at the quantitation limit listed in parentheses.
4 NC = Not calculable

TABLE 7

QUALIFIED SAMPLES DUE TO FIELD BLANK CONTAMINATION SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Associated Samples*	*Qualified Sample Results* [1] *(µg/L)*
Iron	GW-111294-RW-034	U(60)
Copper	GW-111294-RW-028,	U(6)
	GW-111294-RW-029,	U(20)
	GW-111294-RW-031 total,	U(15)
	GW-111294-RW-031 dissolved,	U(11)
	GW-111294-RW-032,	U(20)
	GW-111294-RW-033,	U(6)
	GW-111294-RW-034,	U(4)
	GW-111494-RW-036,	U(6)
	GW-111494-RW-037,	U(5)
	GW-111494-RW-038	U(10)

[1] U( ) - The analyte was analyzed for but was not detected above the reported sample quantitation limit listed in parentheses.

MEMO

TO: Steve Whillier REFERENCE NO: 6029-50

FROM: Nancy Bergstrom DATE: January 4, 1995

RE: Data Quality Assessment and Validation for Groundwater Samples Collected as Part of the First Groundwater Sampling Event at the Summit National Superfund Site in Deerfield Township of Portage County, Ohio

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The following details an analytical data quality assessment of the data resulting from the November 14 and 15, 1994 collection of multiple groundwater samples collected for the first groundwater sampling event from the above-referenced Site. The samples, identified in Table 1, were analyzed for the parameters presented in Table 2 by Halliburton NUS Laboratory of Pittsburgh, Pennsylvania using the analytical methods presented in Table 2. The quality control criteria used to assess the data were established by the methods in the associated quality assurance project plan.[1]

Holding Time Periods

The holding time periods for the analyses are listed in Table 3. The reextraction of samples GW-111494-RW-042 and 043 for semi-volatile organic compounds (SVOC) analysis were performed outside of the holding time period criteria. All SVOC results for both samples were below the quantitation limits and the quantitation limits should be qualified as estimated (UJ). The remaining samples were prepared and analyzed within the required holding time periods as indicated by the sample collection and analysis dates on the chain-of-custody document and the analytical report provided by the laboratory.

Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. Sample GW-111594-RW-036B should be qualified as non-detected (U(12) µg/L) for acetone as acetone was detected in the associated method blank sample. The remainder of the method blank samples were reported to be free from detectable concentrations of target analytes indicating no additional laboratory contamination occurred.

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[1]Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", Draft December 1990, revised June 1991 and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis", Draft October 1989.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for the organic analyses was monitored by surrogate compound percent recoveries. Two samples had surrogate recoveries which violated the surrogate recovery acceptance criteria, but were subsequently reextracted. The surrogates were recovered within the acceptable recovery range in the reextracted samples and qualification of the data was deemed unnecessary. The remaining surrogate recoveries for the samples were within the acceptance criteria.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Percent Recoveries

To assess the long-term accuracy and precision of the analytical methods on sample matrices, MS/MSD percent recoveries and the relative percent difference (RPD) of the recoveries were determined. Table 4 presents the data which should be qualified due to violation of MS/MSD acceptance criteria. Additionally, the MS/MSD percent recoveries reported for Aroclor-1242 were outside of the acceptance criteria. No qualification of the associated data is required however, since the MS/MSD sample was from a non-project source. All remaining MS/MSD percent recovery and RPD data were within the control limits, indicating an adequate level of accuracy and precision was achieved.

Check Sample Percent Recoveries

Check sample percent recoveries were examined to assess the overall performance and accuracy of the laboratory procedures. Table 5 presents the data which should be qualified due to violation of check sample acceptance criteria. The remaining check sample percent recoveries were within the laboratory control limits, indicating the methods achieved an adequate level of accuracy.

Field Duplicate Samples

To assess the overall field and laboratory precision of the sampling and analytical effort, one field duplicate sample set was collected. Table 6 presents the results of the detected analytes in the field duplicate sample set.

Trip Blank Samples

To monitor for cross contamination of VOC samples during sample transport and storage, one trip blank sample was submitted with the investigative samples. The trip blank sample remained free from contamination and qualification of the sample data was unnecessary.

Completeness

Completeness, as required by the total number of usable results versus the total number of results, was required to be 90% or greater. The majority of the data were considered usable (with qualifications) and the completeness criteria was determined to have been met.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted.

NB/lmm/5

Attachments

cc: Steven Day

TABLE 1

SAMPLE IDENTIFICATION NUMBERS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

GW-111594-RW-033B
GW-111594-RW-036B
GW-111594-RW-037B
GW-111594-RW-038B
GW-111494-RW-039
GW-111494-RW-040
GW-111494-RW-042
GW-111494-RW-043
GW-111494-RW-044
GW-111494-RW-045
GW-111494-RW-046

TABLE 2

ANALYTICAL METHODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Analytical Method*	
Target Compound List (TCL) Volatile Organic Compunds (VOC)	SW-846 [1]	8260
TCL Semi-Volatile Organic Compounds (SVOC)	SW-846	8270
TCL Pesticides/Polychlorinated biphenyls (PCB)	SW-846	8080
Target Analyte List (TAL) Metals	SW-846	6010/7000 series
Total Cyanide	ASTM [2]	D2036

[1] "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA SW-846, 3rd edition, November 1986 and relevant updates.

[2] "Annual Book of ASTM Standards", American Society for Testing and Materials, Philadelphia, Pennsylvania, 1987.

TABLE 3

HOLDING TIME PERIODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Holding Time Period*
TCL VOC; Total Cyanide	- 14 days from sample collection to completion of analysis
TCL SVOC; TCL Pesticides/PCB	- 7 days from sample collection to extraction - 40 days from extraction to completion of analysis
TAL Metals (except Mercury)	- 6 months from sample collection to completion of analysis
Mercury	- 28 days from sample collection to completion of analysis

TABLE 4

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF MS/MSD ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier* [1]
GW-111494-RW-039	Selenium	UJ
GW-111494-RW-042		UJ
GW-111494-RW-044		UJ
GW-111494-RW-045		UJ
GW-111494-RW-046		UJ

[1] The sample result should be qualified as:
UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

TABLE 5

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF CHECK SAMPLE ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier* [1]
GW-111494-RW-039, GW-111494-RW-042, GW-111494-RW-044, GW-111494-RW-045, GW-111494-RW-046	Calcium	J/UJ
	Magnesium	J/UJ
GW-111594-RW-037B, GW-111594-RW-038B, GW-111494-RW-039, GW-111494-RW-040, GW-111494-RW-042, GW-111494-RW-043, GW-111494-RW-044, GW-111494-RW-045, GW-111494-RW-046	Carbon disulfide	UJ
	Chloromethane	UJ
	Vinyl chloride	UJ

[1] The sample results should be qualified as:
J - The associated numerical value is an estimated quantity for detected analytes.
UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

TABLE 6

SUMMARY OF DETECTED ANALYTES
FIELD DUPLICATE SAMPLE SET
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Investigative Sample GW-110594-RW-036B (µg/L)*	*Duplicate Sample GW-110594-RW-038B (µg/L)*	*RPD* [1]
1,2-Dichloroethane	7	7	0
Acetone	U(12) [2]	18	NC [3]

[1] RPD = Realtive Percent Difference
[2] U ( ) - The analyte was analyzed for but was not detected above the report sample quantitation limit listed in parentheses.
[3] NC = Not calculable.

MEMO

TO: Steven Whillier REFERENCE NO: 6029-50

FROM: Nancy Bergstrom DATE: January 5, 1995

RE: Data Quality Assessment and Validation for Groundwater Samples Collected as Part of the First Groundwater Sampling Event at the Summit National Superfund Site in Deerfield Township of Portage County, Ohio

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The following details an analytical data quality assessment of the data resulting from the November 14 through 16, 1994 collection of multiple groundwater samples collected for the first groundwater sampling event from the above-referenced Site. The samples, identified in Table 1, were analyzed for the parameters presented in Table 2 by Halliburton NUS Laboratory in Pittsburgh, Pennsylvania using the analytical methods presented in Table 2. The quality control criteria used to assess the data were established by the methods in the associated quality assurance project plan.[1]

Holding Time Periods

The holding time periods for the analyses are listed in Table 3. The samples were prepared and analyzed within the required holding time periods as indicated by the sample collection and analysis dates on the chain-of-custody documents and the analytical report provided by the laboratory.

Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. Table 4 presents the data which should be qualified due to method blank contamination. The remainder of the method blank samples were reported to be free from detectable concentrations of target analytes indicating no additional laboratory contamination occurred.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for the organic analyses was monitored by surrogate compound percent recoveries. The pesticide/polychlorinated biphenyls (PCB) surrogates were diluted out of range in sample GW-111494-RW-056, but

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[1]Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", Draft December 1990, revised June 1991 and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis", Draft October 1989.

qualification of the data was deemed unnecessary. Additionally, in several samples analyzed for pesticides/PCB, the surrogate percent recoveries were above the acceptance criteria. However, no qualification of the associated data is required since no pesticides/PCBs were detected in the samples. Table 5 presents the data which should be qualified due to violation of surrogate recovery acceptance criteria. The remaining surrogate recoveries for the samples were within the acceptance criteria.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Percent Recoveries

To assess the long-term accuracy and precision of the analytical methods on sample matrices, MS/MSD percent recoveries and the relative percent difference (RPD) of the recoveries were determined. The PCB-1242 MS/MSD percent recoveries violated the acceptance criteria in sample GW-111694-RW-050B and therefore the quantitation limit for PCB-1242 should be qualified as estimated (UJ) in that sample. One MS/MSD sample violated the acceptance criteria for sodium and another MS/MSD sample violated the acceptance criteria for sodium, calcium and magnesium percent recoveries. In both MS/MSD samples, the sample concentrations were greater than four times the spike concentrations and qualification of the data was deemed unnecessary. Table 6 presents the metals data that should be qualified due to violation of MS/MSD acceptance criteria. All remaining MS/MSD percent recovery and RPD data were within the control limits, indicating an adequate level of accuracy and precision was achieved.

Sample Quantitation

The laboratory flagged the 4-methyl-2-pentanone value in sample GW-111494-RW-056 with an "E" qualifier indicating the concentration exceeded the linear calibration of the instrument. Therefore, this value should be qualified as estimated with a "J".

Check Sample Percent Recoveries

Check sample percent recoveries were examined to assess the overall performance and accuracy of the laboratory procedures. Table 7 presents the data which should be qualified due to violation of check sample percent recovery acceptance criteria. The remaining check sample percent recoveries were within the laboratory control limits, indicating the methods achieved an adequate level of accuracy.

Field Duplicate Samples

To assess the overall field and laboratory precision of the sampling and analytical effort, two field duplicate sample sets were collected. Table 8 presents the results of the detected analytes in the field duplicate sample sets.

Trip Blank Samples

To monitor for cross contamination of VOC samples during sample transport and storage, one trip blank sample was submitted with the investigative samples. The trip blank sample remained free from contamination and qualification of the sample data was unnecessary.

Field Blank Samples

Two field blank samples were collected to evaluate the effectiveness of the field decontamination procedures. Sample data that should be qualified due to field blank sample contamination are presented in Table 9. No other qualification due to field blank sample contamination was deemed necessary.

Completeness

Completeness, as required by the total number of usable results versus the total number of results was required to be 90% or greater. The majority of the data were considered usable (with qualifications) and the completeness criteria was determined to have been met.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted.

NB/lo/14

Attachments

cc: Steven Day

TABLE 1

SAMPLE IDENTIFICATION NUMBERS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

GW-111494-RW-041
GW-111594-RW-041B
GW-111594-RW-047
GW-111594-RW-048
GW-111594-RW-049
GW-111594-RW-050
GW-111594-RW-051
GW-111594-RW-052
GW-111594-RW-053
GW-111594-RW-054
GW-111594-RW-055
GW-111494-RW-056
GW-111594-RW-057
GW-111594-RW-058
GW-111594-RW-059
GW-111694-RW-060
GW-111694-RW-061
GW-111694-RW-016B
GW-111694-RW-050B
GW-111594-RW-056B

TABLE 2

ANALYTICAL METHODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Analytical Method*	
Target Compound List (TCL) Volatile Organic Compounds (VOC)	SW-846 [1]	8260
TCL Semi-Volatile Organic Compounds (SVOC)	SW-846	8270
TCL Pesticide/Polychlorinated biphenyls (PCB)	SW-846	8080
Target Analyte List (TAL) Metals	SW-846	6010/7000 series
Total Cyanide	ASTM [2]	D2036

[1] "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA SW-846, 3rd edition, November 1986 and relevant updates.

[2] "Annual Book of ASTM Standards", American Society for Testing and Materials, Philadelphia, Pennsylvania, 1987.

TABLE 3

HOLDING TIME PERIODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Holding Time Period*
TCL VOC; Total Cyanide	- 14 days from sample collection to completion of analysis
TCL SVOC; TCL Pesticide/PCB	- 7 days from sample collection to extraction - 40 days from extraction to completion of analysis
TAL Metals (except Mercury)	- 6 months from sample collection to completion of analysis
Mercury	- 28 days from sample collection to completion of analysis

TABLE 4

QUALIFIED SAMPLES DUE TO METHOD BLANK CONTAMINATION SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Associated Samples*	*Qualified Sample Result* [1]
Acetone	GW-111494-RW-041	U(49) µg/L
	GW-111594-RW-047	U(14) µg/L
	GW-111594-RW-053	U(13) µg/L
	GW-111594-RW-054	U(11) µg/L

[1] The sample results should be qualified as:
U ( ) - The material was analyzed for, but was not detected.
The associated numerical value is the sample quantitation limit.

TABLE 5

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF SURROGATE RECOVERY ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Fraction*	*Qualifier* [1]
GW-111594-RW-048	Acid SVOC	J/R
GW-111694-RW-061	VOC	J/UJ

[1] The sample results should be qualified as:

J - The associated numerical value is an estimated quantity for detected analytes.

UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

R - The data are unusable (compound may or may not be present). Resampling and reanalysis is necessary for verification.

TABLE 6

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF MS/MSD ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier* [1]
GW-111494-RW-041,	Lead	J/UJ
GW-111594-RW-048,		
GW-111594-RW-049,		
GW-111594-RW-050,		
GW-111594-RW-051,		
GW-111594-RW-052,		
GW-111594-RW-053,		
GW-111594-RW-054,		
GW-111594-RW-055,		
GW-111494-RW-056,		
GW-111594-RW-057,		
GW-111594-RW-058,		
GW-111594-RW-059,		
GW-111694-RW-060,		
GW-111694-RW-061,		
GW-111694-RW-050B,		
GW-111694-RW-056B		
GW-111694-RW-050B,	Arsenic	J/UJ
GW-111594-RW-056B	Selenium	J/UJ

[1] The sample results should be qualified as:

J - The associated value is an estimated quantity for detected analytes.

UJ - The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

TABLE 7

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF CHECK SAMPLE PERCENT RECOVERY ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Associated Samples*	*Qualified Sample Result* [1]
GW-111594-RW-055,	Carbon disulfide	J/UJ
GW-111594-RW-057,	Chloroethane	J/UJ
GW-111594-RW-058	Chloromethane	J/UJ
	Vinyl chloride	J/UJ
GW-111494-RW-056,	2-Butanone	J/UJ
GW-111594-RW-059,	2-Hexanone	J/UJ
GW-111694-RW-060,	Carbon disulfide	J/UJ
GW-111694-RW-061,	Chloroethane	J/UJ
GW-111694-RW-016B,	Chloromethane	J/UJ
GW-111694-RW-050B	Vinyl chloride	J/UJ
GW-111494-RW-041	Bromomethane	UJ
	Carbon disulfide	UJ
	Chloroethane	UJ
	Vinyl chloride	UJ
	Chloromethane	UJ

[1] The sample results should be qualified as:

J - The associated value is an estimated quantity for detected analytes.

UJ - The material was analyzed for but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

TABLE 8

SUMMARY OF DETECTED ANALYTES
FIELD DUPLICATE SAMPLE SETS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Investigative Sample GW-111594-RW-051 (µg/L)*	*Duplicate Sample GW-111594-RW-052 (µg/L)*	*RPD* [1]
Iron	5,700	5,300	7.3
Aluminum	2,400	2,400	0
Barium	75	75	0
Calcium	2,500	2,300	4.3
Chromium	10	ND(10) [2]	NC [3]
Copper	10	6	50
Lead	2	2	0
Magnesium	1,600	1,500	6.5
Potassium	3,100	3,100	0
Sodium	430,000	430,000	0
Manganese	84	77	8.7

Parameter	*Investigative Sample GW-111594-RW-057 (µg/L)*	*Duplicate Sample GW-111594-RW-058 (µg/L)*	*RPD*
Iron	340	320	6.1
Barium	84	84	0
Calcium	8,000	8,000	0
Magnesium	3,100	3,100	0
Potassium	4,400	4,500	2.2
Sodium	780,000	780,000	0
Manganese	6	5	18

[1] RPD = Relative Percent Difference.
[2] ND( ) = Not detected at the quantitation limit stated in parentheses.
[3] NC = Not calculable.

TABLE 9

QUALIFIED SAMPLES DUE TO FIELD BLANK CONTAMINATION SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Associated Samples*	*Qualified Sample Result* [1]
Arsenic	GW-111594-RW-050	U (21) µg/L
	GW-111594-RW-051	U (4) µg/L
	GW-111594-RW-055	U (19) µg/L
	GW-111694-RW-060	U (16) µg/L
	GW-111694-RW-050B	U (10) µg/L
Zinc	GW-111594-RW-049	U (50) µg/L
	GW-111594-RW-050	U (30) µg/L
	GW-111594-RW-051	U (20) µg/L
	GW-111594-RW-052	U (20) µg/L
	GW-111594-RW-054	U (10) µg/L
	GW-111494-RW-056	U (40) µg/L
	GW-111594-RW-057	U (10) µg/L
	GW-111594-RW-058	U (20) µg/L
	GW-111694-RW-050B	U (30) µg/L

[1] U ( ) - The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitaion limit or the sample detection limit.

MEMO

TO: Steven Whillier REFERENCE NO: 6029-50

FROM: Nancy Bergstrom DATE: January 5, 1995

RE: Data Quality Assessment and Validation for Groundwater Samples Collected as Part of the First Groundwater Sampling Event at the Summit National Superfund Site in Deerfield Township of Portage County, Ohio

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The following details an analytical data quality assessment of the data resulting from the November 17, 1994 collection of multiple groundwater samples collected for the first groundwater sampling event from the above-referenced Site. The samples, identified in Table 1, were analyzed for the parameters presented in Table 2 by Halliburton NUS Laboratory of Pittsburgh, Pennsylvania using the analytical methods presented in Table 2. The quality control criteria used to assess the data were established by the methods in the associated quality assurance project plan.[1]

Holding Time Periods

The holding time periods for the analyses are listed in Table 3. The samples were prepared and analyzed within the required holding time periods as indicated by the sample collection and analysis dates on the chain-of-custody document and the analytical report provided by the laboratory.

Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by the concurrent preparation and analysis of method blank samples. Sodium and acetone were detected in the reported method blank samples, but qualification of the data was not required. The remainder of the method blank samples were reported to be free from detectable concentrations of target analytes indicating no significant laboratory contamination occurred.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for the organic analyses was monitored by surrogate compound percent recoveries. The surrogate recoveries for the samples were within the acceptance criteria.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Percent Recoveries

To assess the long term accuracy and precision of the analytical methods on sample matrices, MS/MSD percent recoveries and the relative percent difference (RPD) of

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[1]Application of quality assurance criteria was consistent with "National Functional Guidelines for Organic Data Review", Draft December 1990, revised June 1991 and "Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analysis", Draft October 1989.

the recoveries were determined. The PCB-1242 MS/MSD percent recoveries violated the acceptance criteria, but qualification of the data was not required as PCB-1242 was not detected in the associated investigative sample. The sodium MS/MSD percent recoveries violated the acceptance criteria, but qualification of the data was not required as the concentration of sodium in the investigative sample was greater than four times the spike concentration. Table 4 presents the metals data which should be qualified due to violation of MS/MSD percent recovery acceptance criteria. All remaining MS/MSD percent recovery and RPD data were within the control limits, indicating an adequate level of accuracy and precision was achieved.

Check Sample Percent Recovery

Check sample percent recovery was examined to assess the overall performance and accuracy of the laboratory procedures. Table 5 presents the data which should be qualified due to violation of check sample percent recovery acceptance criteria. Thallium exceeded the check sample percent recovery acceptance criteria, but qualification of the data was not required as thallium was not detected in the associated investigative sample. The remaining check sample percent recovery data were within the provided laboratory control limits, indicating the methods achieved an adequate level of accuracy.

Trip Blank Sample

To monitor for cross contamination of VOC samples during sample transport and storage, one trip blank sample was submitted with the investigative samples. Acetone was detected in the trip blank sample and also in the associated method blank sample. As the investigative sample remained free from acetone contamination, laboratory contamination of the batch containing the trip blank sample is suspected. The acetone result in the trip blank sample should be qualified as non-detected, U(17) µg/L. Qualification of the investigative sample was deemed unnecessary.

Completeness

Completeness, as required by the total number of usable results versus the total number of results was required to be 90 percent or greater. The majority of the data were considered usable (with qualifications) and the completeness criteria was determined to have been met.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision and may be used with the qualifications noted.

NB/mk/6

Attachments

cc: Steven Day

TABLE 1

SAMPLE IDENTIFICATION NUMBERS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

GW-111794-CJ-061B

GW-111794-CJ-062

TABLE 2

ANALYTICAL METHODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Analytical Method*	
Target Compound List (TCL) Volatile Organic Compounds (VOC)	SW-846 [1]	8260
TCL Semi-Volatile Organic Compounds (SVOC)	SW-846	8270
TCL Pesticide/Polychlorinated biphenyls (PCB)	SW-846	8080
Target Analyte List (TAL) Metals	SW-846	6010/7000 series
Total Cyanide	ASTM [2]	D2036

[1] "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA SW-846, 3rd edition, November 1986 and relevant updates.

[2] "Annual Book of ASTM Standards", American Society of Testing and Materials, Philadelphia, Pennsylvania, 1987.

TABLE 3

HOLDING TIME PERIODS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Parameter	*Holding Time Period*
TCL VOC; Total Cyanide	- 14 days from sample collection to completion of analysis
TCL SVOC; TCL Pesticide/PCB	- 7 days from sample collection to extraction - 40 days from extraction to completion of analysis
TAL Metals (except Mercury)	- 6 months from sample collection to completion of analysis
Mercury	- 28 days from sample collection to completion of analysis

TABLE 4

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF MS/MSD ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier* [1]
GW-111794-CJ-062	Lead	UJ
	Arsenic	UJ
	Selenium	UJ

[1] UJ - The material was analyzed for, but was not detected.
The associated value is an estimate and may be inaccurate or imprecise.

TABLE 5

QUALIFICATION OF SAMPLE DATA DUE TO VIOLATION OF CHECK SAMPLE ACCEPTANCE CRITERIA SUMMIT NATIONAL SUPERFUND SITE DEERFIELD TOWNSHIP OF PORTAGE COUNTY, OHIO

Sample ID	*Analyte*	*Qualifier* [1]
GW-111794-CJ-062	2-Butanone	UJ
	2-Hexanone	UJ
	Carbon disulfide	UJ
	Chloroethane	UJ
	Chloromethane	UJ
	Vinyl chloride	UJ

[1] UJ - The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

D

ATTACHMENT D

GROUNDWATER LEVEL MEASUREMENTS

TABLE

SUMMARY OF COORDINATES AND ELEVATIONS
WATER TABLE UNIT MONITORING WELLS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

LABEL	NORTH'	EAST'	REFERENCE ELEVATION (ft. AMSL)	GROUNDWATER ELEVATION 11/7/94 Level (ft.BTOR)	11/7/94 Elev. (ft.AMSL)	11/21/94 Level (ft.BTOR)	11/21/94 Elev. (ft.AMSL)	NEW REF. ELEVATION (ft. AMSL)	12/5/94 Level (ft.BTOR)	12/5/94 Elev. (ft.AMSL)	12/21/94 Level (ft.BTOR)	12/21/94 Elev. (ft.AMSL)	1/5,6/95 Level (ft.BTOR)	1/5,6/95 Elev. (ft.AMSL)	1/17/95 Level (ft.BTOR)	1/17/95 Elev. (ft.AMSL)	1/30/95 Level (ft.BTOR)	1/30/95 Elev. (ft.AMSL)
MW-4	9504.62	5952.14	1091.01	13.05	1,077.96	12.55	1,078.46	1091.01	12.46	1,078.55	11.70	1,079.31	12.27	1,078.74	11.29	1,079.72	11.17	1,079.84
MW-11	9415.15	5635.37	1095.99	22.67	1,073.32	23.35	1,072.64	1095.99	23.56	1,072.43	22.83	1,073.16	23.66	1,072.33	21.87	1,074.12	22.45	1,073.54
MW-101	10022.01	4969.74	1107.26	12.20	1,095.06	11.67	1,095.59	1107.26	11.78	1,095.48	11.00	1,096.26	11.16	1,096.10	10.70	1,096.56	9.97	1,097.29
MW-102	10010.36	5513.09	1100.01	9.60	1,090.41	8.74	1,091.27	1100.01	8.98	1,091.03	8.15	1,091.86	8.57	1,091.44	8.05	1,091.96	7.10	1,092.91
MW-103	9592.32	4928.01	1095.99	7.00	1,088.99	6.17	1,089.82	1095.99	4.95	1,091.04	3.69	1,092.30	4.50	1,091.49	2.58	1,093.41	3.10	1,092.89
MW-104 (1)	9577.66	5055.72	1094.34	19.27	1,075.07	19.35	1,074.99	1094.34	19.29	1,075.05	19.23	1,075.11	19.30	1,075.04	19.15	1,075.19	19.15	1,075.19
MW-105	9539.60	5136.66	1101.10	25.82	1,075.28	25.85	1,075.25	1101.10	25.98	1,075.12	25.75	1,075.35	25.90	1,075.20	25.70	1,075.40	25.50	1,075.60
MW-106	9548.91	5295.67	1103.65	26.74	1,076.91	–		1102.69	25.87	1,076.82	24.72	1,077.97	25.78	1,076.91	25.44	1,077.25	23.68	1,079.01
MW-107	9550.60	5570.01	1099.87	19.85	1,080.02	21.18	1,078.69	1099.82	20.05	1,079.77	18.05	1,081.77	21.20	1,078.62	16.08	1,083.74	16.71	1,083.11
MW-108	9549.85	5779.86	1091.85	16.44	1,075.41	16.40	1,075.45	1091.85	16.50	1,075.35	15.30	1,076.55	17.15	1,074.70	15.08	1,076.77	14.39	1,077.46
MW-109	9586.65	5874.92	1087.30	7.37	1,079.93	6.78	1,080.52	1087.30	6.64	1,080.66	5.95	1,081.35	6.28	1,081.02	5.42	1,081.88	5.22	1,082.08
MW-110	9641.76	6124.78	1086.86	11.85	1,075.01	11.25	1,075.61	1086.86	10.72	1,076.14	9.40	1,077.46	10.12	1,076.74	6.61	1,080.25	7.63	1,079.23
MW-111	9395.48	5296.56	1099.52	25.92	1,073.60	25.88	1,073.64	1099.52	25.95	1,073.57	25.63	1,073.89	25.89	1,073.63	24.95	1,074.57	25.32	1,074.20
MW-113	9392.35	5825.57	1088.41	13.42	1,074.99	15.42	1,072.99	1088.41	14.65	1,073.76	12.10	1,076.31	12.29	1,076.12	11.95	1,076.46	10.52	1,077.89
MW-114	9280.28	5265.08	1097.10	18.46	1,078.64	17.43	1,079.67	1097.10	17.23	1,079.87	17.22	1,079.88	18.35	1,078.75	17.21	1,079.89	17.45	1,079.65
MW-115	9299.32	5637.85	1101.81	29.98	1,071.83	28.72	1,073.09	1101.81	27.50	1,074.31	26.12	1,075.69	26.21	1,075.60	24.48	1,077.33	23.20	1,078.61
MW-116	9004.76	5236.13	1105.34	25.84	1,079.50	25.54	1,079.80	1105.34	25.76	1,079.58	25.88	1,079.46	25.92	1,079.42	25.98	1,079.36	25.80	1,079.54
MW-117	9014.10	5616.06	1123.79	53.35	1,070.44	51.25	1,072.54	1123.79	50.29	1,073.50	45.78	1,078.01	49.16	1,074.63	42.18	1,081.61	45.53	1,078.26
MW-118	9171.15	5970.16	1098.38	29.87	1,068.51	29.20	1,069.18	1098.38	29.05	1,069.33	26.48	1,071.90	27.36	1,071.02	25.45	1,072.93	25.83	1,072.55
PZ-1	9796.10	5095.65	1104.75	13.23	1,091.52	12.25	1,092.50	1104.41	12.21	1,092.20	11.47	1,092.94	11.81	1,092.60	11.63	1,092.78	10.48	1,093.93
PZ-101	9783.71	5283.02	1101.34	11.52	1,089.82	10.79	1,090.55	1101.34	10.93	1,090.41	10.01	1,091.33	10.60	1,090.74	9.90	1,091.44	9.13	1,092.21
PZ-102 R	9830.71	5506.52	–	–	–	–	–	1101.10	15.47	1,085.63	14.30	1,086.80	14.79	1,086.31	13.43	1,087.67	13.07	1,088.03
PZ-103	9862.02	5829.13	1093.80	11.29	1,082.51	10.12	1,083.68	1093.80	10.12	1,083.68	9.15	1,084.65	9.36	1,084.44	8.05	1,085.75	8.17	1,085.63
PZ-104	9195.12	5325.82	1097.44	19.40	1,078.04	18.25	1,079.19	1097.44	18.04	1,079.40	17.15	1,080.29	17.94	1,079.50	17.05	1,080.39	16.71	1,080.73
PZ-105	9231.87	5667.24	1101.57	20.17	1,081.40	27.78	1,073.79	1101.57	27.01	1,074.56	24.20	1,077.37	25.47	1,076.10	22.60	1,078.97	22.98	1,078.59
PZ-106	9291.31	5937.23	1102.20	29.70	1,072.50	29.40	1,072.80	1102.20	29.45	1,072.75	28.02	1,074.18	27.73	1,074.47	19.86	1,082.34	26.25	1,075.95
MH-1	9638.64	5087.26			1,075.27		1,075.27			1,075.27		1,075.27		1,075.27		1,075.27		1,075.27
MH-2	9531.61	5103.14			1,074.58		1,074.58			1,074.58		1,074.58		1,074.58		1,074.58		1,074.58
MH-3	9472.96	5159.07			1,074.15		1,074.15			1,074.15		1,074.15		1,074.15		1,074.15		1,074.15
MH-4	9359.18	5280.48			1,071.63		1,071.63			1,071.63		1,071.63		1,071.63		1,071.63		1,071.63
MH-5	9378.90	5625.55			1,063.14		1,063.14			1,063.14		1,063.14		1,063.14		1,063.14		1,063.14
MH-6	9413.73	5812.98			1,073.41		1,073.41			1,073.41		1,073.41		1,073.41		1,073.41		1,073.41
MH-7	9534.07	5815.13			1,075.36		1,075.36			1,075.36		1,075.36		1,075.36		1,075.36		1,075.36
MH-8	9753.40	5818.48			1,077.30		1,077.30			1,077.30		1,077.30		1,077.30		1,077.30		1,077.30
WET WELL	9366.72	5467.31			1,062.52		1,062.52			1,062.52		1,062.52		1,062.52		1,062.52		1,062.52

1. MW-104 to be relocated in the future.

TABLE

SUMMARY OF COORDINATES AND ELEVATIONS
UPPER INTERMEDIATE UNIT MONITORING WELLS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

				GROUNDWATER ELEVATION															
LABEL	NORTH'	EAST'	REFERENCE ELEVATION (ft. AMSL)	11/7/94		11/21/94		NEW REF. ELEVATION (ft. AMSL)	12/5/94		12/21/94		1/5,6/95		1/17/95		1/30/95	
				Level (ft.BTOR)	Elev. (ft.AMSL)	Level (ft.BTOR)	Elev. (ft.AMSL)		Level (ft.BTOR)	Elev. (ft.AMSL)	Level (ft.BTOR)	Elev. (ft.AMSL)	Level (ft.BTOR)	Elev. (ft.AMSL)	Level (ft.BTOR)	Elev. (ft.AMSL)	Level (ft.BTOR)	Elev. (ft.AMSL)
MW-201	10021.27	4953.03	1107.18	15.24	1,091.94	14.61	1,092.57	1107.18	15.42	1,091.76	15.43	1,091.75	15.55	1,091.63	15.03	1,092.15	14.90	1,092.28
MW-202	10044.29	5514.90	1099.34	29.80	1,069.54	28.73	1,070.61	1099.34	29.59	1,069.75	31.62	1,067.72	29.21	1,070.13	29.38	1,069.96	27.75	1,071.59
MW-203	9698.65	5096.00	1103.31	16.26	1,087.05	15.60	1,087.71	1103.06	17.18	1,085.88	17.17	1,085.89	17.21	1,085.85	16.83	1,086.23	16.73	1,086.33
MW-204	9356.14	5120.15	1097.82	16.30	1,081.52	16.42	1,081.40	1097.82	23.35	1,074.47	22.55	1,075.27	21.79	1,076.03	21.85	1,075.97	21.83	1,075.99
MW-205	9222.97	5679.56	1100.88	28.65	1,072.23	27.27	1,073.61	1100.88	26.50	1,074.38	23.70	1,077.18	25.05	1,075.83	22.15	1,078.73	22.54	1,078.34
MW-206	9549.04	5312.35	1103.82	35.27	1,068.55	60.95	1,042.87	1103.62	56.62	1,047.00	51.45	1,052.17	45.87	1,057.75	42.95	1,060.67	40.35	1,063.27
MW-207	9550.03	5552.01	1099.82	20.24	1,079.58	21.27	1,078.55	1098.70	21.12	1,077.58	18.67	1,080.03	20.20	1,078.50	17.75	1,080.95	17.27	1,081.43
MW-209	9589.25	5861.72	1087.60	12.77	1,074.83	13.73	1,073.87	1087.60	15.75	1,071.85	16.40	1,071.20	17.68	1,069.92	16.68	1,070.92	16.58	1,071.02
MW-219	9803.68	5293.00	1101.39	20.20	1,081.19	18.53	1,082.86	1101.39	19.95	1,081.44	20.20	1,081.19	20.62	1,080.77	20.72	1,080.67	19.72	1,081.67
PZ-201	9491.52	5119.21	1099.50	22.54	1,076.96	22.75	1,076.75	1099.50	24.80	1,074.70	23.98	1,075.52	24.35	1,075.15	23.72	1,075.78	23.65	1,075.85
PZ-202	9483.44	5367.58	1101.80	24.61	1,077.19	24.48	1,077.32	1101.44	24.29	1,077.15	23.09	1,078.35	24.15	1,077.29	22.55	1,078.89	21.75	1,079.69
PZ-203	9350.03	5369.93	1098.17	24.70	1,073.47	24.68	1,073.49	1098.17	25.05	1,073.12	24.45	1,073.72	25.00	1,073.17	23.32	1,074.85	23.98	1,074.19
PZ-204	9628.36	5616.02	1095.43	17.51	1,077.92	18.71	1,078.05	1096.76	18.96	1,077.80	18.04	1,078.72	19.07	1,077.69	18.40	1,077.03	15.58	1,079.85
PZ-205	9495.13	5642.96	1096.99	21.85	1,075.14	21.82	1,075.17	1096.99	21.67	1,075.32	20.65	1,076.34	21.88	1,075.11	19.33	1,077.66	19.70	1,077.29
PZ-206	9515.61	5823.07	1088.31	20.51	1,067.80	20.14	1,068.17	1088.31	20.75	1,067.56	20.86	1,067.45	20.73	1,067.58	20.57	1,067.74	19.27	1,069.04
PZ-207	9383.64	5740.04	1091.33	19.09	1,072.24	17.70	1,073.63	1091.35	16.95	1,074.40	14.58	1,076.77	15.49	1,075.86	11.64	1,079.71	13.35	1,078.00
EW-1	9472.40	5139.85	1099.96	23.09	1,076.87	22.95	1,077.01	1099.96	60.60	1,039.36	60.55	1,039.41	60.60	1,039.36	60.55	1,039.41	65.50	1,034.46
EW-2	9349.20	5281.03	1097.80	26.35	1,071.45	26.32	1,071.48	1097.80	60.50	1,037.30	60.60	1,037.20	60.60	1,037.20	60.60	1,037.20	60.60	1,037.20
EW-3	9356.57	5466.72	1097.81	32.32	1,065.49	32.42	1,065.39	1097.81	60.60	1,037.21	60.70	1,037.11	60.70	1,037.11	60.70	1,037.11	83.03	1,014.78
EW-4	9368.92	5627.68	1095.15	25.75	1,069.40	25.42	1,069.73	1095.15	60.10	1,035.05	60.10	1,035.05	60.15	1,035.00	60.12	1,035.03	79.34	1,015.81
EW-5	9401.54	5813.55	1088.87	19.52	1,069.35	18.42	1,070.45	1088.87	61.30	1,027.57	61.35	1,027.52	61.37	1,027.50	61.35	1,027.52	65.40	1,023.47
EW-6	9533.92	5824.98	1088.80	27.53	1,061.27	20.37	1,068.43	1088.80	60.56	1,028.24	60.60	1,028.20	60.60	1,028.20	60.60	1,028.20	105.75	983.05

TABLE

SUMMARY OF COORDINATES AND ELEVATIONS
LOWER INTERMEDIATE UNIT MONITORING WELLS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

LABEL	NORTH'	EAST'	REFERENCE ELEVATION (ft. AMSL)	GROUNDWATER ELEVATION 11/7/94 Level (ft.BTOR)	11/7/94 Elev. (ft.AMSL)	11/21/94 Level (ft.BTOR)	11/21/94 Elev. (ft.AMSL)	NEW REF. ELEVATION (ft. AMSL)	12/5/94 Level (ft.BTOR)	12/5/94 Elev. (ft.AMSL)	12/21/94 Level (ft.BTOR)	12/21/94 Elev. (ft.AMSL)	1/5,6/95 Level (ft.BTOR)	1/5,6/95 Elev. (ft.AMSL)	1/17/95 Level (ft.BTOR)	1/17/95 Elev. (ft.AMSL)	1/30/95 Level (ft.BTOR)	1/30/95 Elev. (ft.AMSL)
MW-25	9643.59	5601.26	1095.55	18.05	1,077.50	--		1095.55	22.25	1,073.30	22.25	1,073.30	21.98	1,073.57	22.03	1,073.52	20.85	1,074.70
MW-301	10020.31	4940.71	1107.58	31.95	1,075.63	31.42	1,076.16	1107.58	32.51	1,075.07	33.92	1,073.66	32.02	1,075.56	32.15	1,075.43	31.01	1,076.57
MW-302	10057.20	5514.08	1100.24	30.84	1,069.40	29.72	1,070.52	1100.24	30.50	1,069.74	32.55	1,067.69	30.21	1,070.03	30.40	1,069.84	28.72	1,071.52
MW-303	9670.86	5094.89	1102.85	32.74	1,070.11	32.50	1,070.35	1102.85	34.14	1,068.71	35.90	1,066.95	32.58	1,070.27	33.04	1,069.81	31.38	1,071.47
MW-304	9353.38	5135.12	1097.51	19.95	1,077.56	19.81	1,077.70	1097.51	25.11	1,072.40	24.39	1,073.12	23.27	1,074.24	24.60	1,072.91	26.30	1,071.21
MW-305	9235.14	5687.17	1101.23	34.35	1,066.88	33.79	1,067.44	1101.23	35.88	1,065.35	36.53	1,064.70	32.37	1,068.86	33.55	1,067.68	31.07	1,070.16
MW-306	9539.42	5331.51	1103.69	34.78	1,068.91	34.55	1,069.14	1103.39	35.15	1,068.24	37.97	1,065.42	33.13	1,070.26	35.35	1,068.04	31.68	1,071.71
MW-307	9524.82	5556.10	1098.70	20.64	1,078.06	30.80	1,067.90	1098.70	32.48	1,066.22	33.69	1,065.01	29.98	1,068.72	30.85	1,067.85	28.19	1,070.51
MW-309	9586.93	5854.87	1087.73	19.80	1,067.93	17.65	1,070.08	1087.73	20.40	1,067.33	22.45	1,065.28	18.82	1,068.91	18.85	1,068.88	17.29	1,070.44
MW-319	9794.13	5292.47	1100.80	19.95	1,080.85	18.42	1,082.38	1100.80	19.68	1,081.12	19.73	1,081.07	20.20	1,080.60	20.20	1,080.60	17.66	1,083.14
PZ-301	9497.73	5112.94	1099.84	27.46	1,072.38	26.68	1,073.16	1099.84	29.25	1,070.59	30.55	1,069.29	28.25	1,071.59	28.85	1,070.99	29.78	1,070.06
PZ-302	9481.75	5390.02	1102.41	--	--	--	--	1102.07	30.21	1,071.86	37.29	1,064.78	32.87	1,069.20	34.30	1,067.77	22.45	1,079.62
PZ-303	9350.23	5358.69	1098.28	29.53	1,068.75	28.25	1,070.03	1098.28	30.20	1,068.08	33.45	1,064.83	29.74	1,068.54	29.51	1,068.77	27.62	1,070.66
PZ-305	9491.59	5649.84	1096.66	28.22	1,068.44	28.37	1,068.29	1095.58	30.40	1,065.18	30.53	1,065.05	26.50	1,069.08	29.75	1,065.83	25.05	1,070.53
PZ-306	9511.95	5826.36	1088.01	18.70	1,069.31	17.63	1,070.38	1088.01	23.30	1,064.71	23.55	1,064.46	23.54	1,064.47	20.86	1,067.15	22.10	1,065.91
PZ-307	9390.13	5749.78	1091.39	24.38	1,067.01	23.37	1,068.02	1091.39	23.58	1,067.81	23.55	1,067.84	21.91	1,069.48	20.55	1,070.84	19.33	1,072.06
EW-1	9472.40	5139.85	1099.96	23.09	1,076.87	22.95	1,077.01	1099.96	60.60	1,039.36	60.55	1,039.41	60.60	1,039.36	60.55	1,039.41	65.50	1,034.46
EW-2	9349.20	5281.03	1097.80	26.35	1,071.45	26.32	1,071.48	1097.80	60.50	1,037.30	60.60	1,037.20	60.60	1,037.20	60.60	1,037.20	60.60	1,037.20
EW-3	9356.57	5466.72	1097.81	32.32	1,065.49	32.42	1,065.39	1097.81	60.60	1,037.21	60.70	1,037.11	60.70	1,037.11	60.70	1,037.11	83.03	1,014.78
EW-4	9368.92	5627.68	1095.15	25.75	1,069.40	25.42	1,069.73	1095.15	60.10	1,035.05	60.10	1,035.05	60.15	1,035.00	60.12	1,035.03	79.34	1,015.81
EW-5	9401.54	5813.55	1088.87	19.52	1,069.35	18.42	1,070.45	1088.87	61.30	1,027.57	61.35	1,027.52	61.37	1,027.50	61.35	1,027.52	65.40	1,023.47
EW-6	9533.92	5824.98	1088.80	27.53	1,061.27	20.37	1,068.43	1088.80	60.56	1,028.24	60.60	1,028.20	60.60	1,028.20	60.60	1,028.20	105.75	983.05

TABLE

SUMMARY OF COORDINATES AND ELEVATIONS
UPPER SHARON UNIT MONITORING WELLS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

				GROUNDWATER ELEVATION													
LABEL	*NORTH'*	*EAST'*	*REFERENCE ELEVATION (ft.AMSL)*	*11/7/94*		*11/21/94*		*12/5/94*		*12/21/94*		*1/5,6/95*		*1/17/95*		*1/30/95*	
				Level (ft.BTOR)	*Elev. (ft.AMSL)*	*Level (ft.BTOR)*	*Elev. (ft.AMSL)*	*Level (ft.BTOR)*	*Elev. (ft.AMSL)*	*Level (ft.BTOR)*	*Elev. (ft.AMSL)*	*Level (ft.BTOR)*	*Elev. (ft.AMSL)*	*Level (ft.BTOR)*	*Elev. (ft.AMSL)*	*Level (ft.BTOR)*	*Elev. (ft.AMSL)*
MW-401	9600.83	5456.31	1099.56	40.18	1,059.38	39.68	1,059.88	39.10	1,060.46	40.15	1,059.41	37.78	1,061.78	38.01	1,061.55	36.25	1,063.31
MW-402	9522.00	5955.15	1089.77	37.60	1,052.17	49.40	1,040.37	37.07	1,052.70	37.55	1,052.22	37.26	1,052.51	37.03	1,052.74	37.86	1,051.91
MW-414	9285.55	5253.79	1096.85	27.40	1,069.45	26.15	1,070.70	26.32	1,070.53	27.57	1,069.28	25.95	1,070.90	26.70	1,070.15	25.50	1,071.35
MW-415	9289.93	5624.54	1102.22	35.00	1,067.22	34.45	1,067.77	35.55	1,066.67	38.72	1,063.50	32.47	1,069.75	35.73	1,066.49	32.28	1,069.94
POT. WELL	9923.21	5703.47	1101.84	101.56	1,000.28	98.04	1,003.80	96.95	1,004.89	108.40	993.44	99.50	1,002.34	122.40	979.44	105.68	996.16

TABLE

SUMMARY OF COORDINATES AND ELEVATIONS
EXTRACTION WELLS
SUMMIT NATIONAL SUPERFUND SITE
DEERFIELD, OHIO

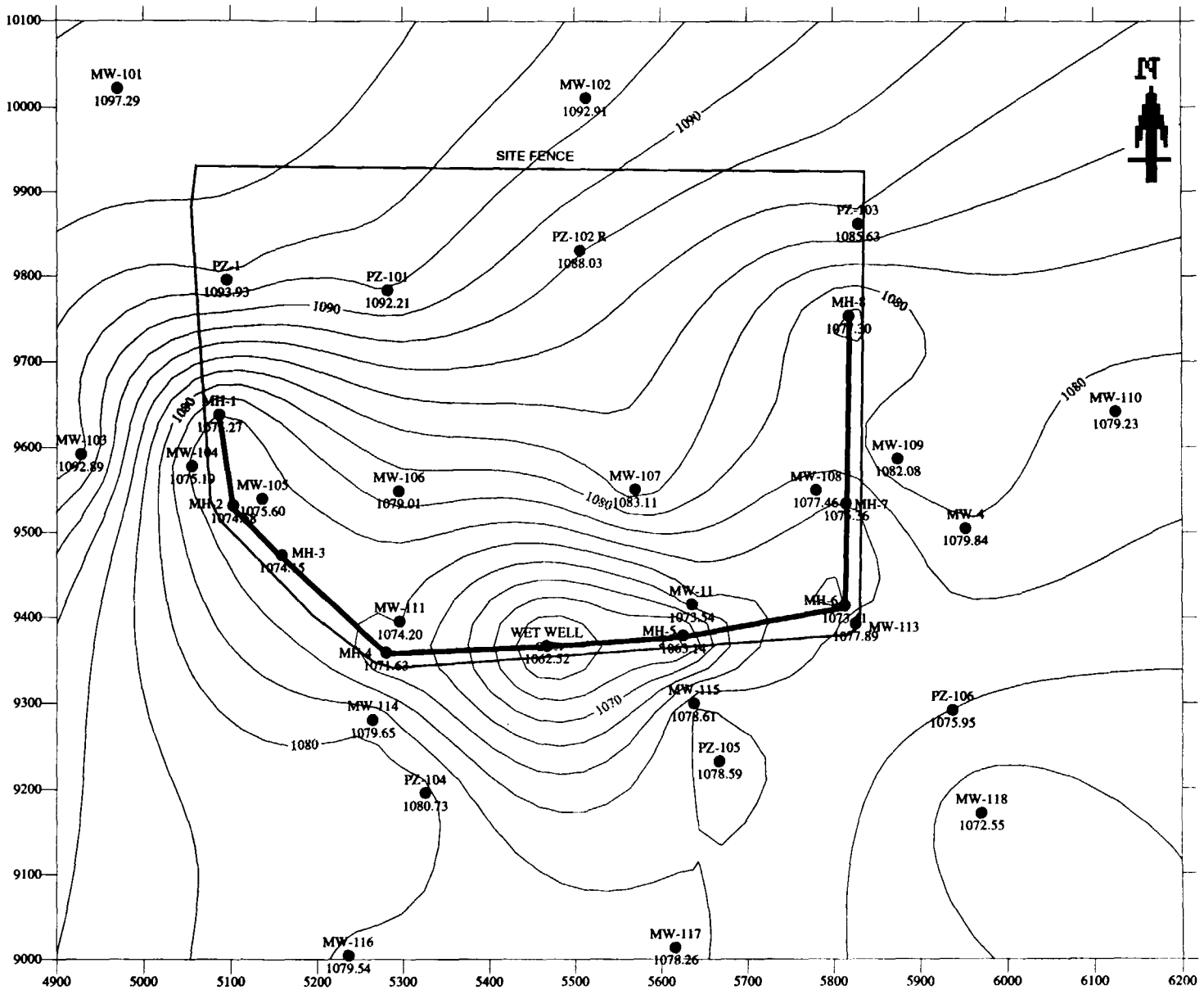
				GROUNDWATER ELEVATION													
LABEL	*NORTH'*	*EAST'*	*REFERENCE ELEVATION (ft.AMSL)*	*11/7/94*		*11/21/94*		*12/5/94*		*12/21/94*		*1/5,6/95*		*1/17/95*		*1/30/95*	
				Level (ft.BTOR)	*Elev. (ft.AMSL)*	*Level (ft.BTOR)*	*Elev. (ft.AMSL)*	*Level (ft.BTOR)*	*Elev. (ft.AMSL)*	*Level (ft.BTOR)*	*Elev. (ft.AMSL)*	*Level (ft.BTOR)*	*Elev. (ft.AMSL)*	*Level (ft.BTOR)*	*Elev. (ft.AMSL)*	*Level (ft.BTOR)*	*Elev. (ft.AMSL)*
EW-1	9472.40	5139.85	1099.96	23.09	1,076.87	22.95	1,077.01	60.60	1,039.36	60.55	1,039.41	60.60	1039.36	60.55	1039.41	65.50	1034.46
EW-2	9349.20	5281.03	1097.80	26.35	1,071.45	26.32	1,071.48	60.50	1,037.30	60.60	1,037.20	60.60	1037.20	60.60	1037.20	60.60	1037.20
EW-3	9356.57	5466.72	1097.81	32.32	1,065.49	32.42	1,065.39	60.60	1,037.21	60.70	1,037.11	60.70	1037.11	60.70	1037.11	83.03	1014.78
EW-4	9368.92	5627.68	1095.15	25.75	1,069.40	25.42	1,069.73	60.10	1,035.05	60.10	1,035.05	60.15	1035.00	60.12	1035.03	79.34	1015.81
EW-5	9401.54	5813.55	1088.87	19.52	1,069.35	18.42	1,070.45	61.30	1,027.57	61.35	1,027.52	61.37	1027.50	61.35	1027.52	65.40	1023.47
EW-6	9533.92	5824.98	1088.80	27.53	1,061.27	20.37	1,068.43	60.56	1,028.24	60.60	1,028.20	60.60	1028.20	60.60	1028.20	105.75	983.05

E

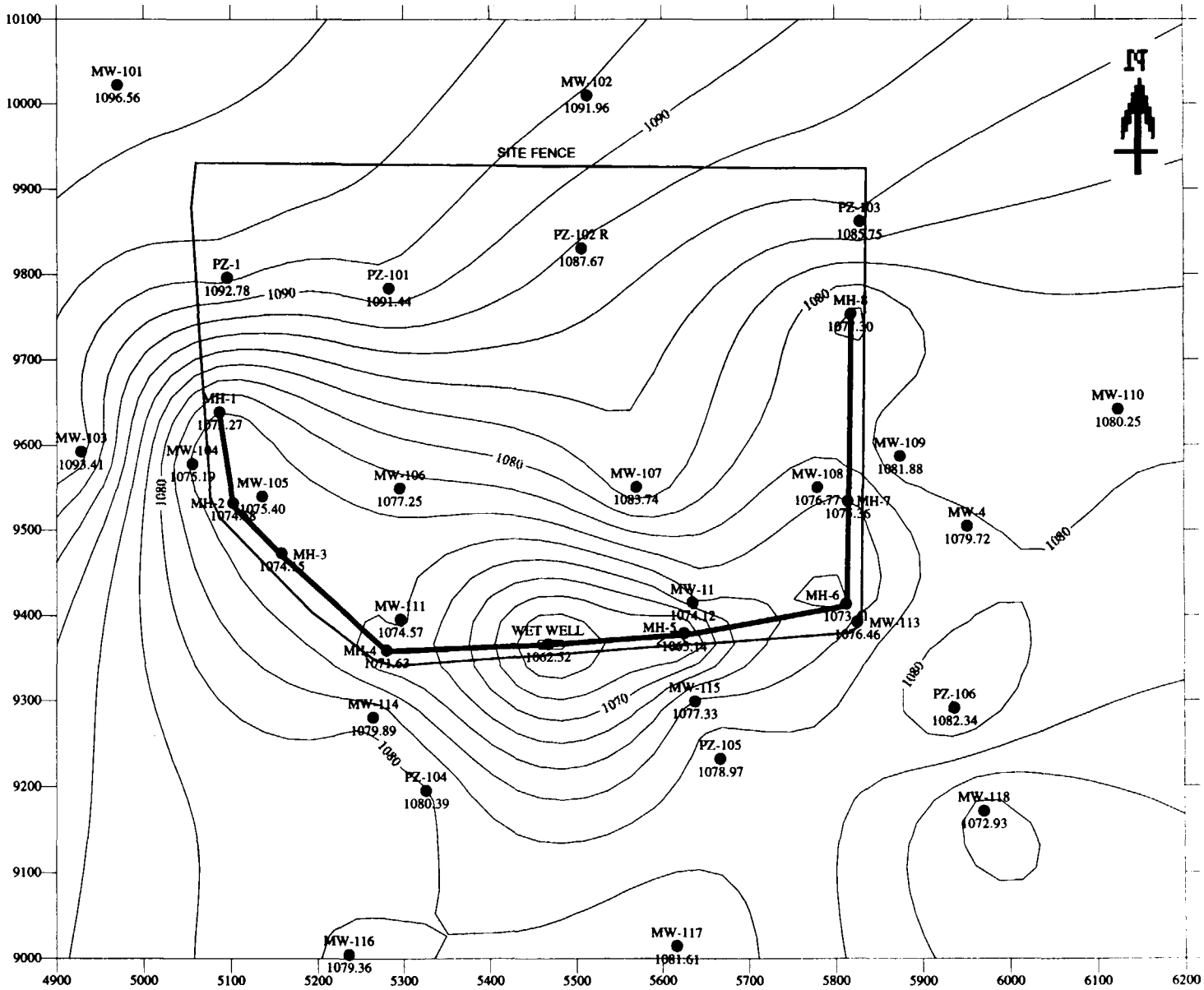
ATTACHMENT E

GROUNDWATER CONTOURS

GROUNDWATER CONTOURS
WATER TABLE UNIT
SUMMIT NATIONAL SUPERFUND SITE
JAN. 30, 1995



GROUNDWATER CONTOURS
WATER TABLE UNIT
SUMMIT NATIONAL SUPERFUND SITE
JAN. 17, 1995



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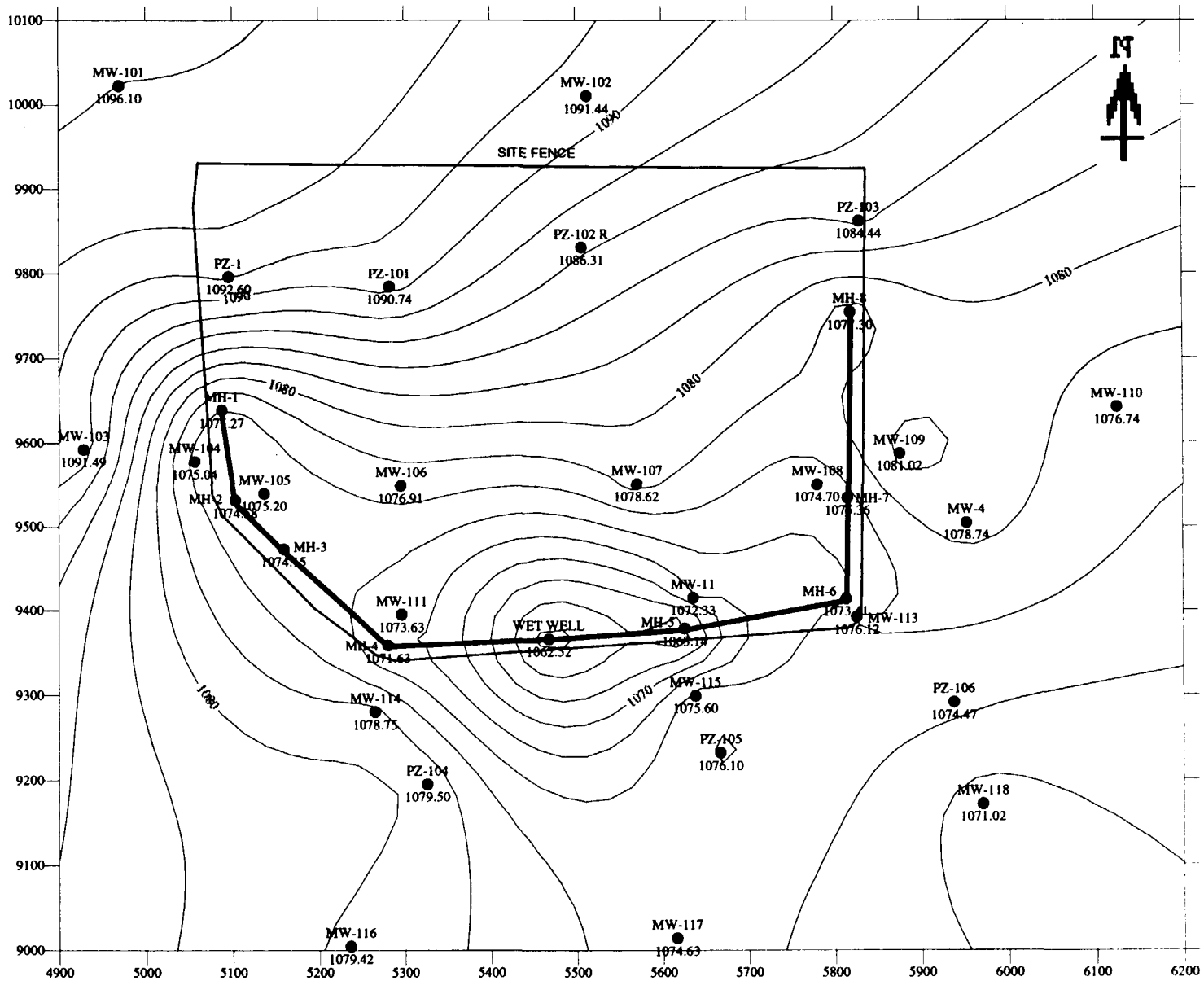
JAN. 5/6, 1995



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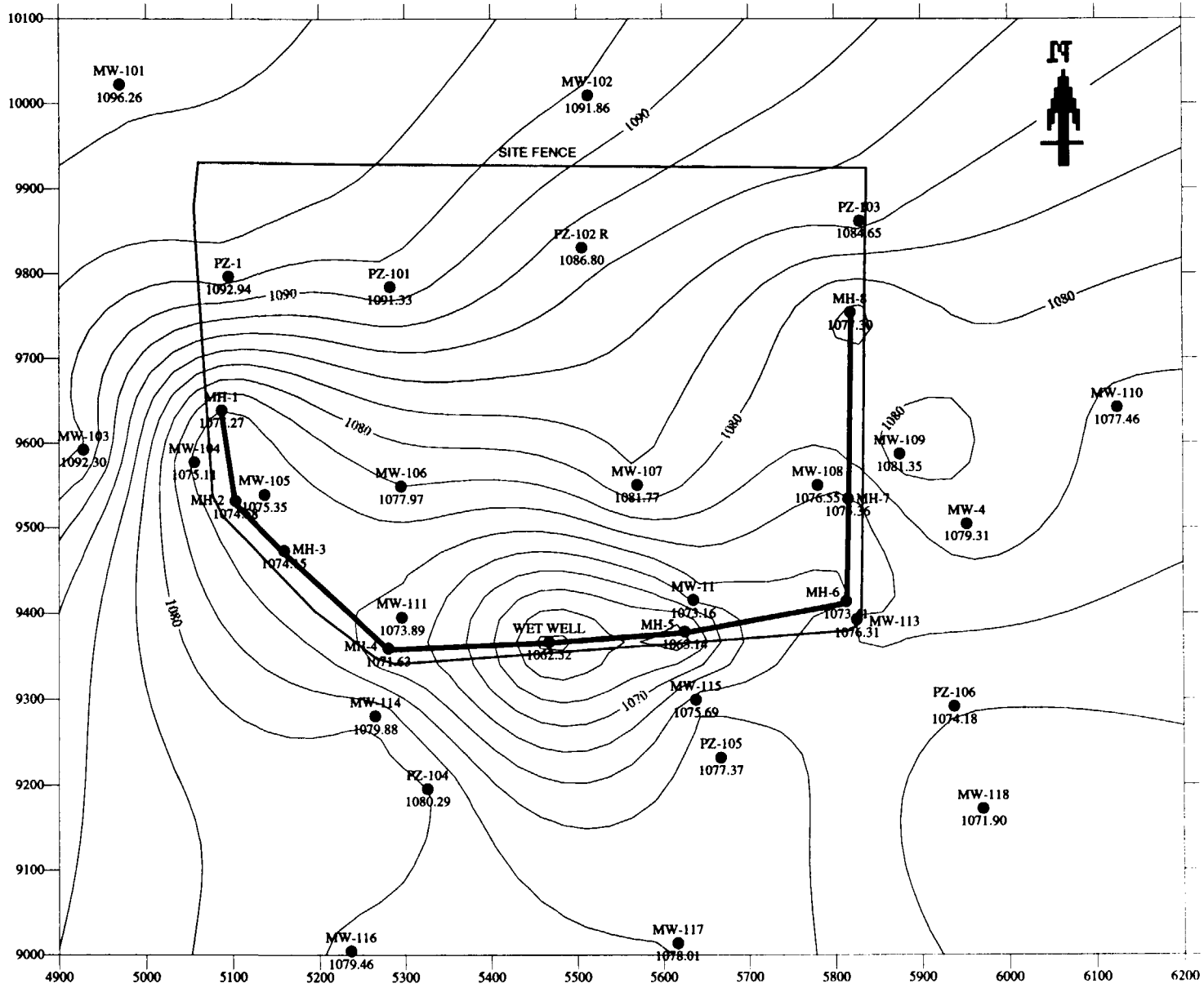
WATER TABLE UNIT
SUMMIT NATIONAL SUPERFUND SITE
DEC. 21, 1994



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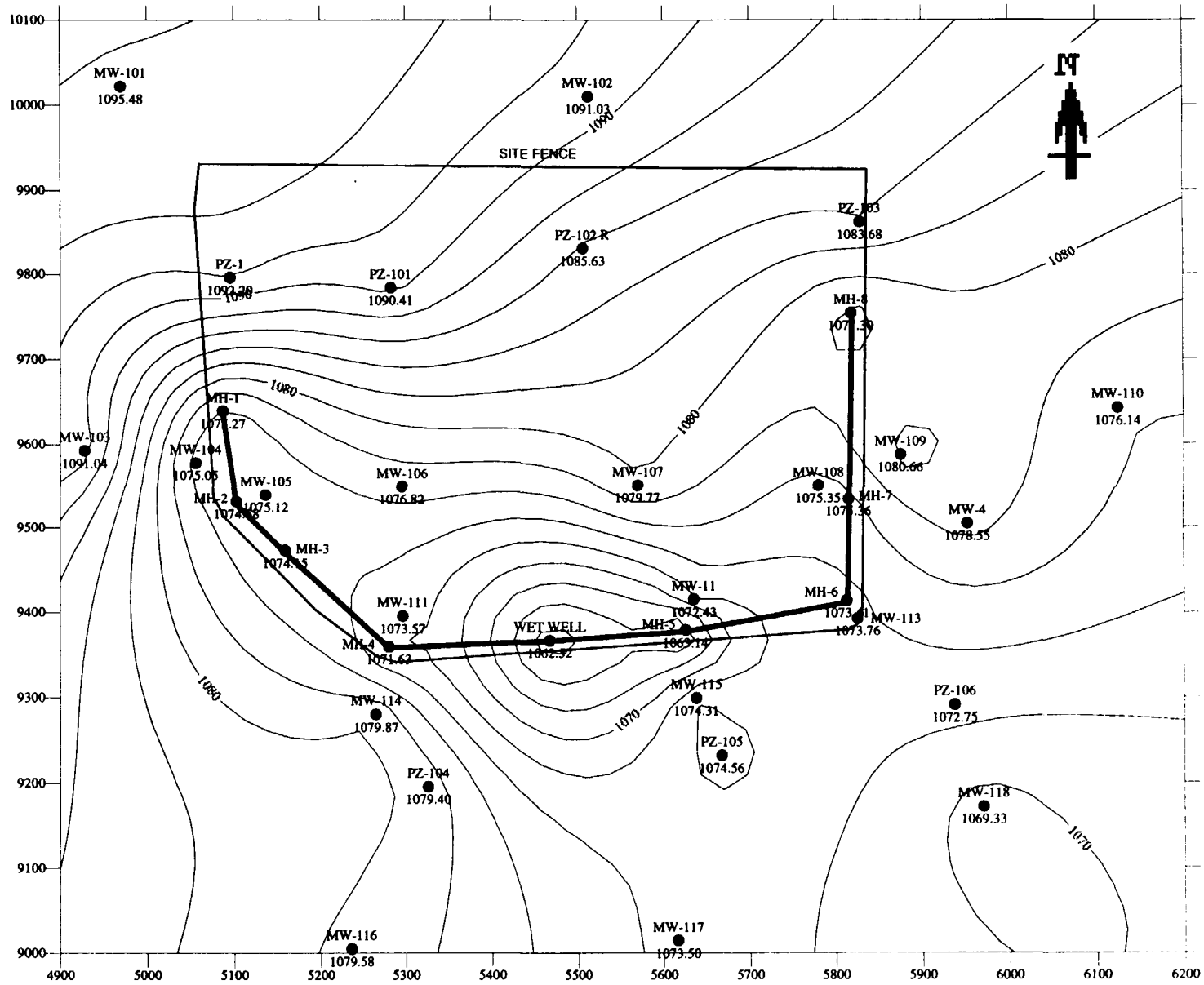
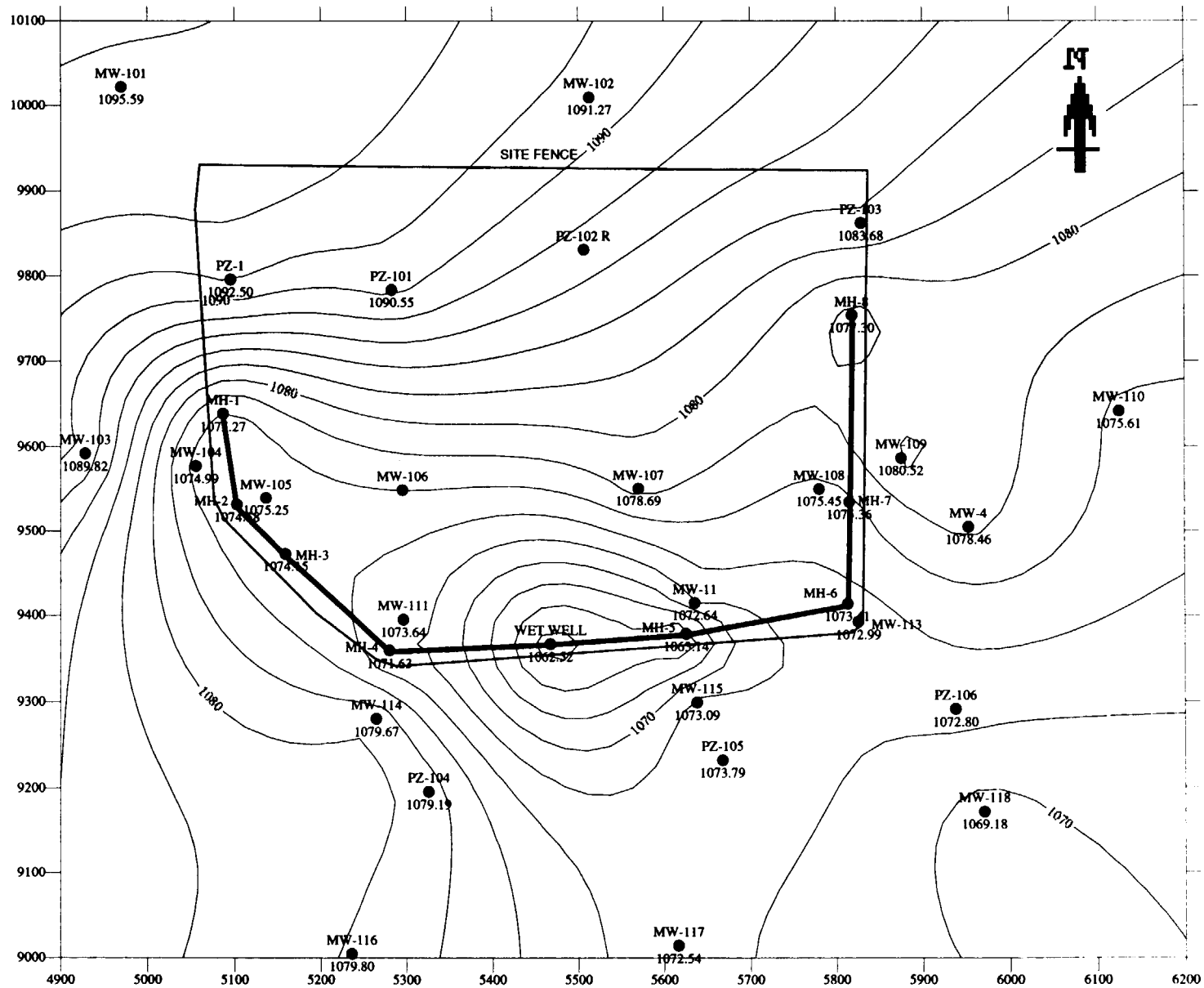
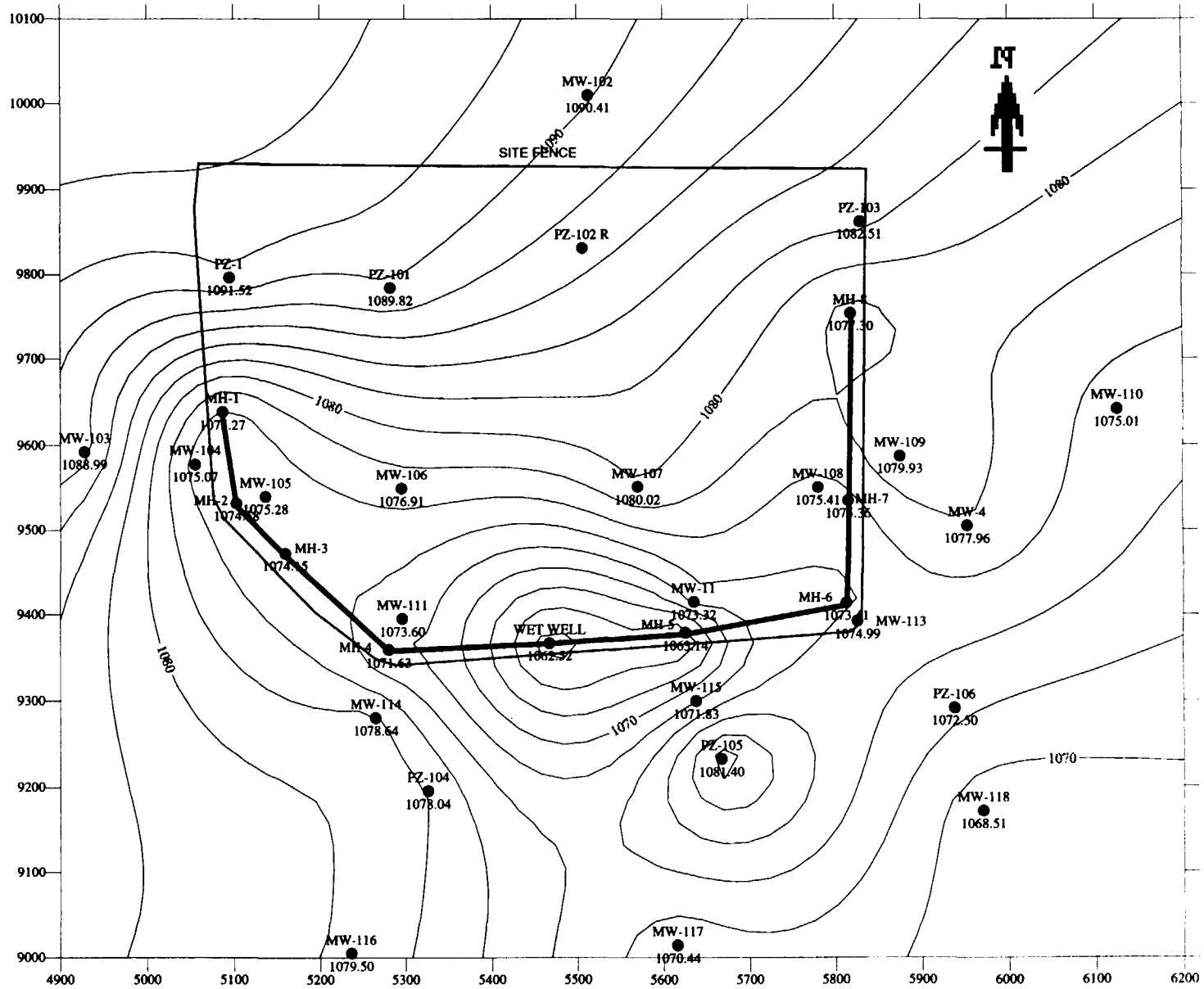
WATER TABLE UNIT
SUMMIT NATIONAL SUPERFUND SITE
DEC. 5, 1994



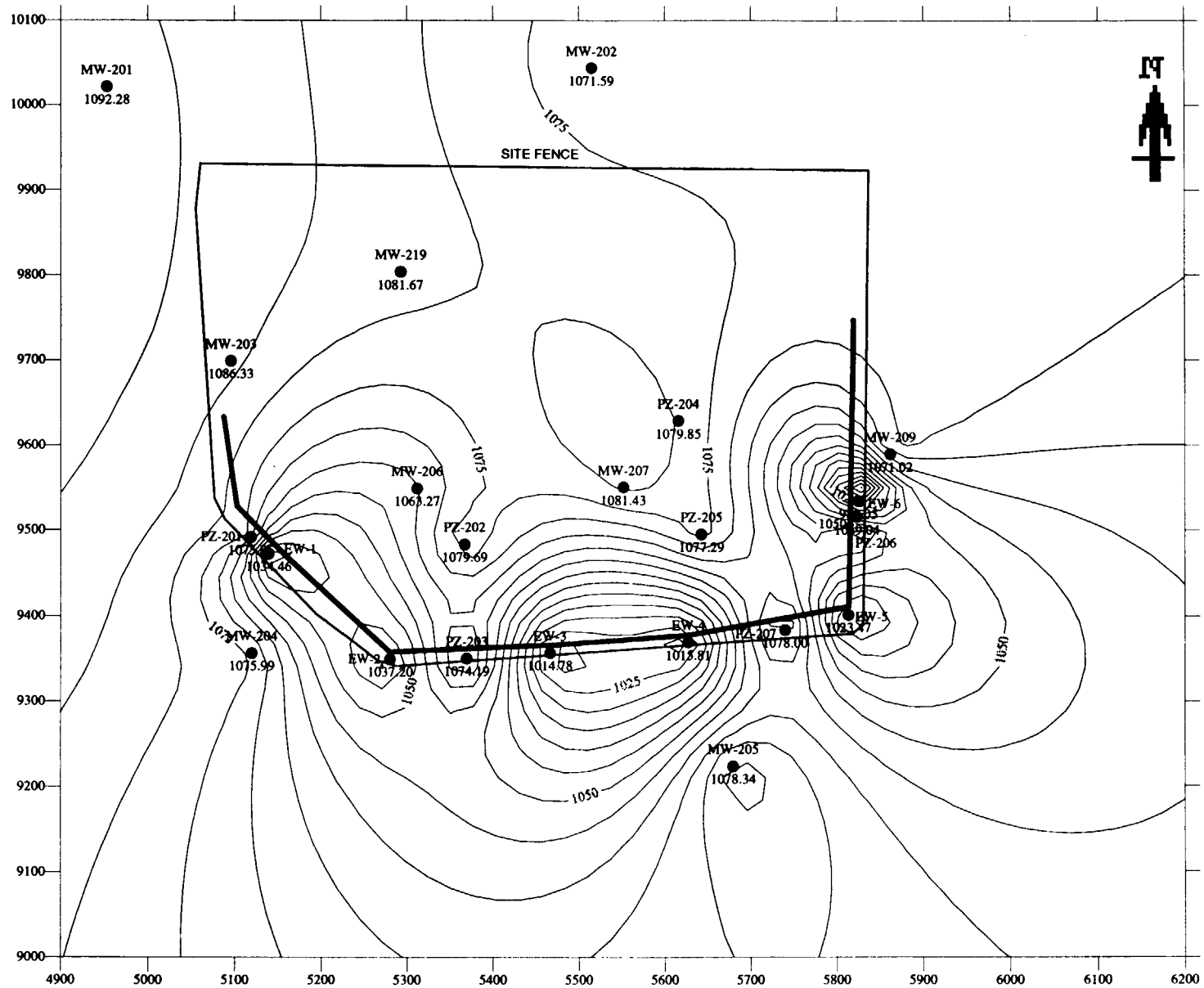
GROUNDWATER CONTOURS
WATER TABLE UNIT
SUMMIT NATIONAL SUPERFUND SITE
NOV. 21, 1994



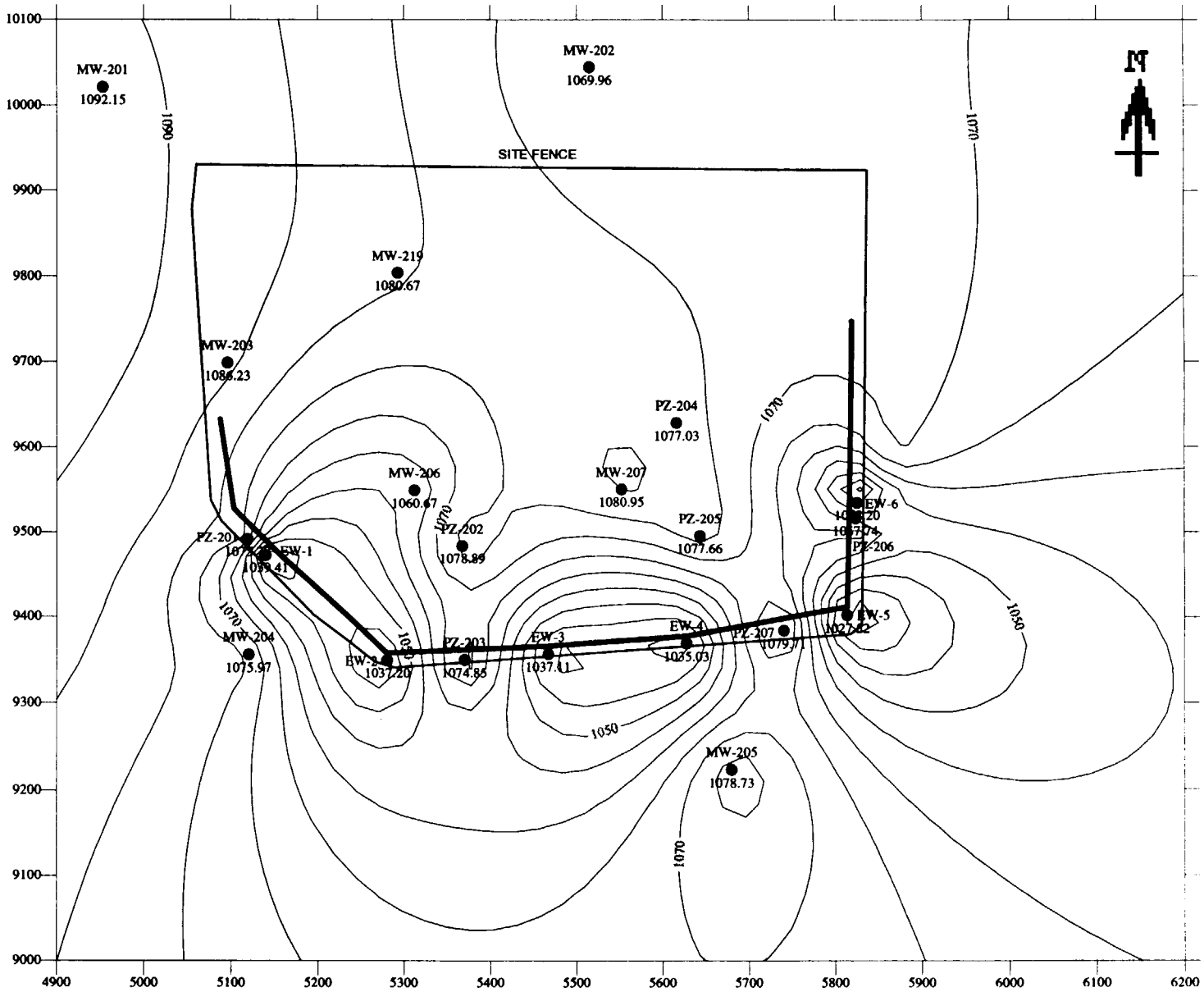
GROUNDWATER CONTOURS
WATER TABLE UNIT
SUMMIT NATIONAL SUPERFUND SITE
NOV. 7, 1994



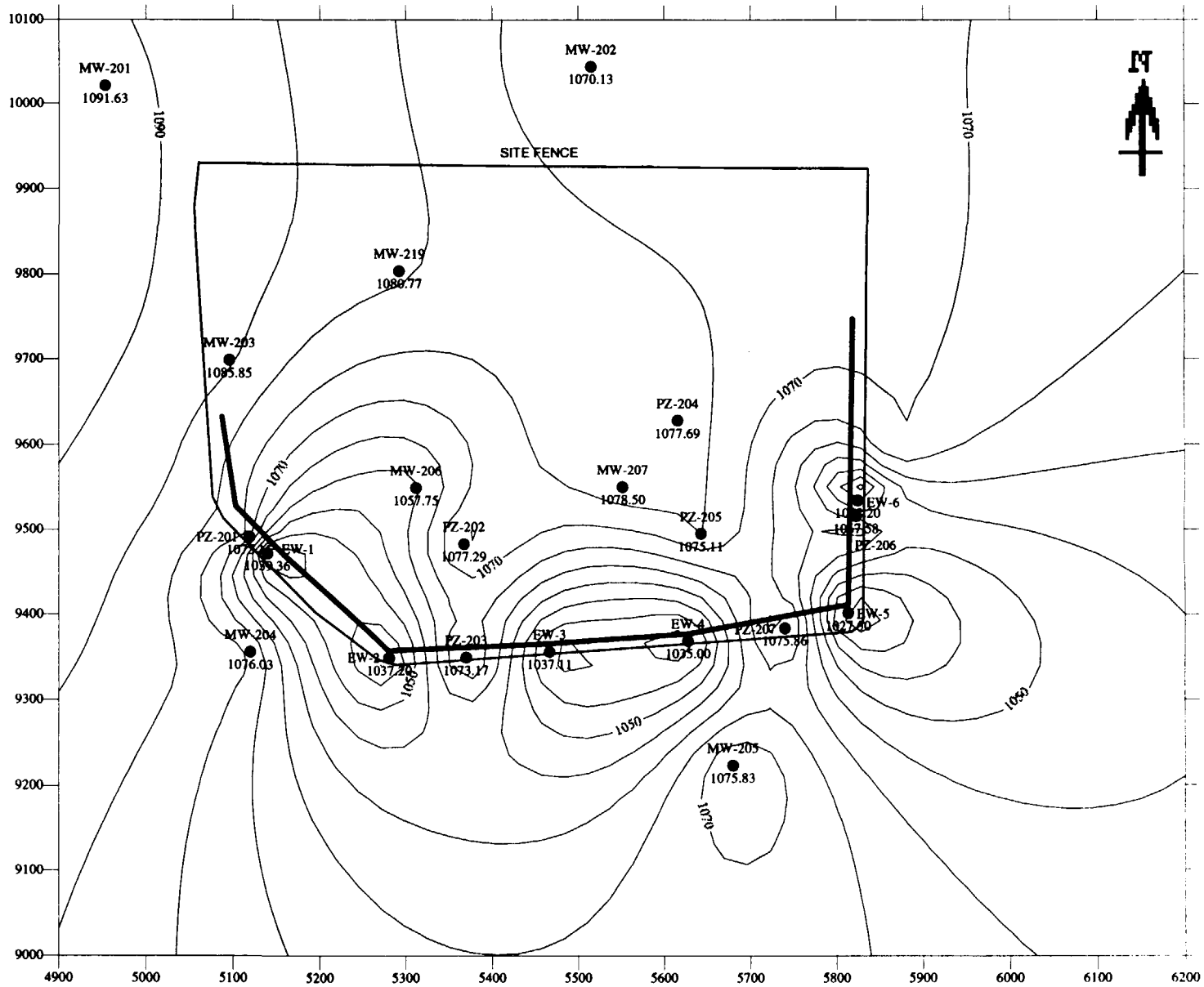
GROUNDWATER CONTOURS
UPPER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
JAN. 30, 1995



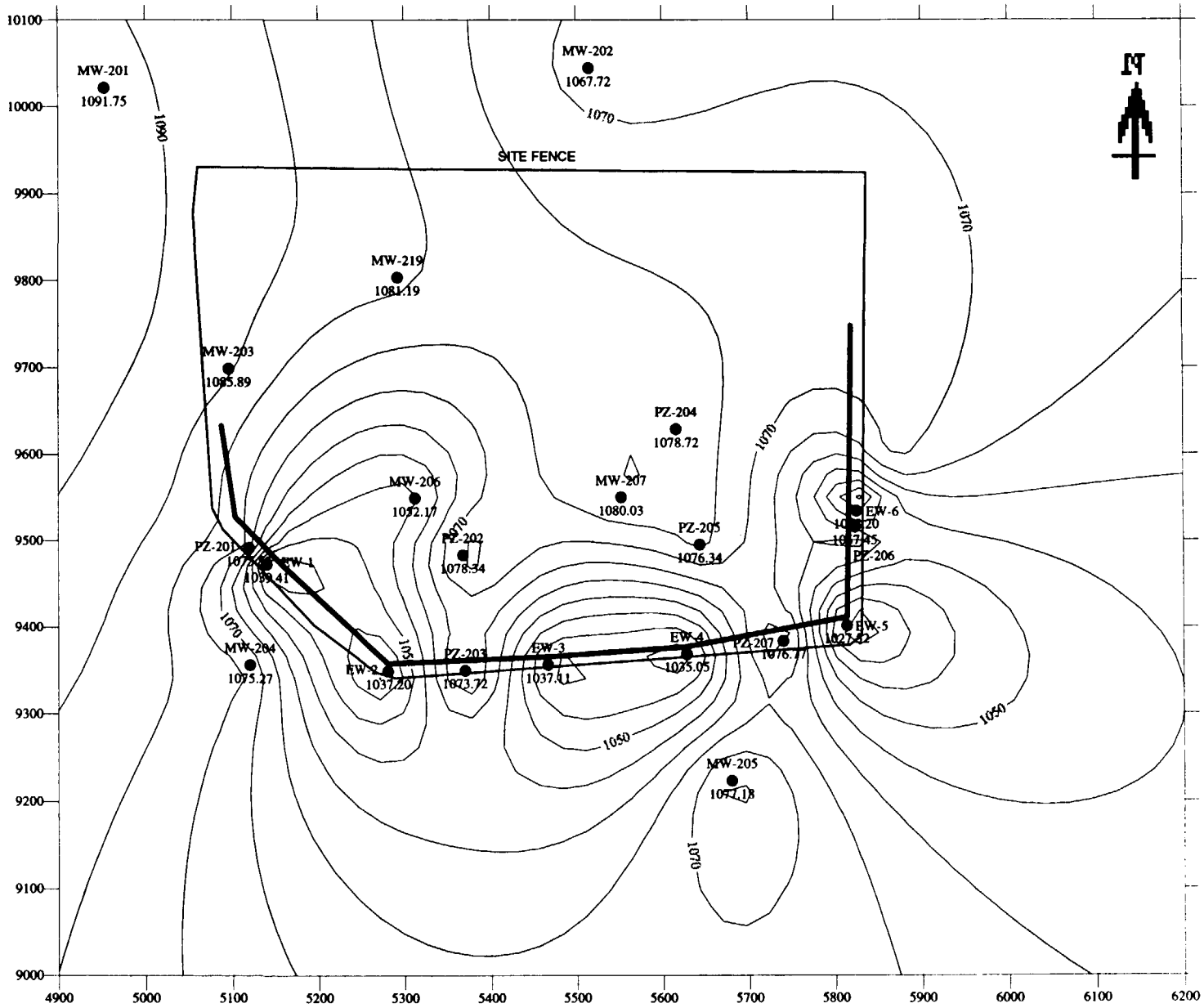
GROUNDWATER CONTOURS
UPPER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
JAN. 17, 1995



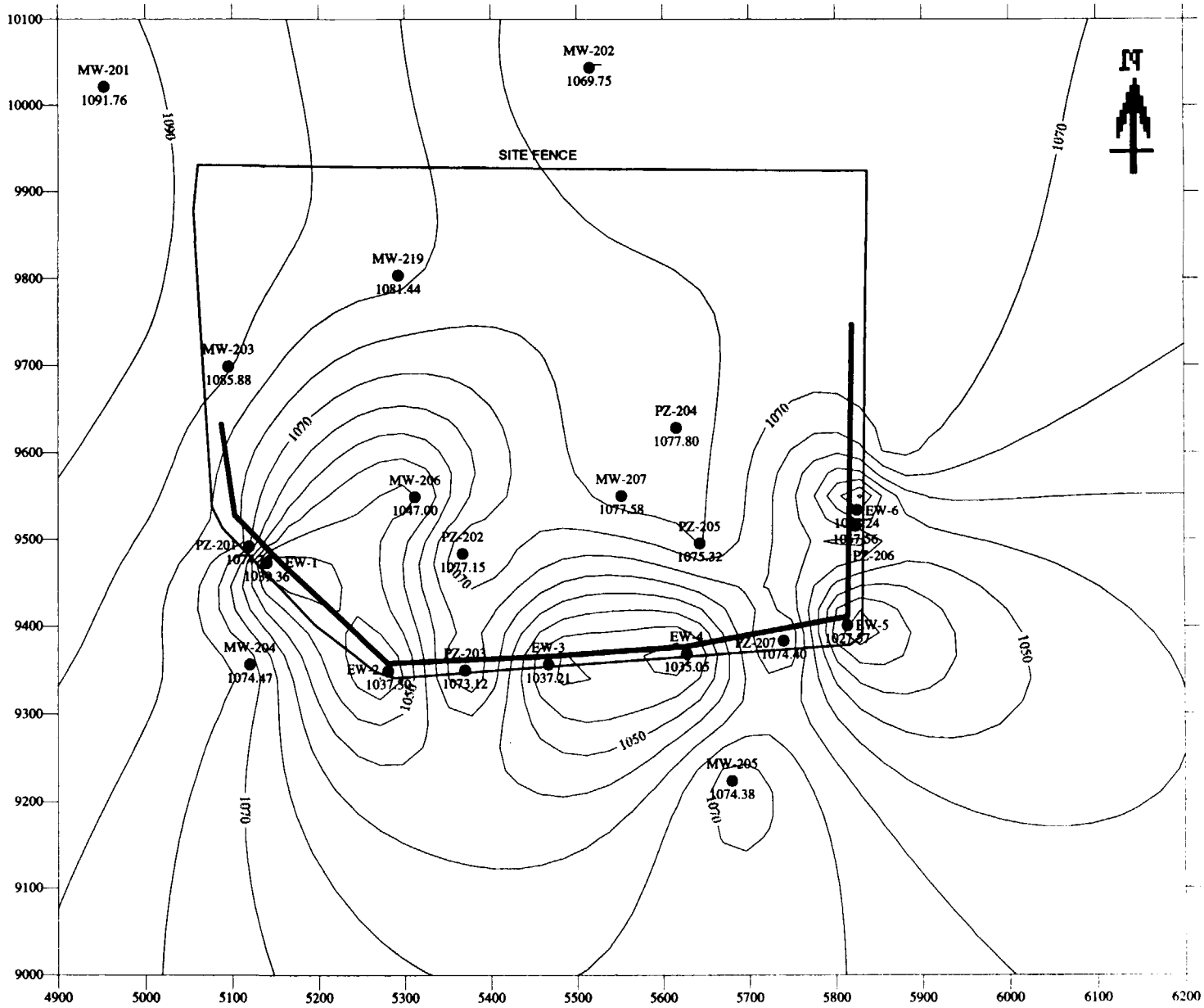
GROUNDWATER CONTOURS
UPPER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
JAN. 5/6, 1995



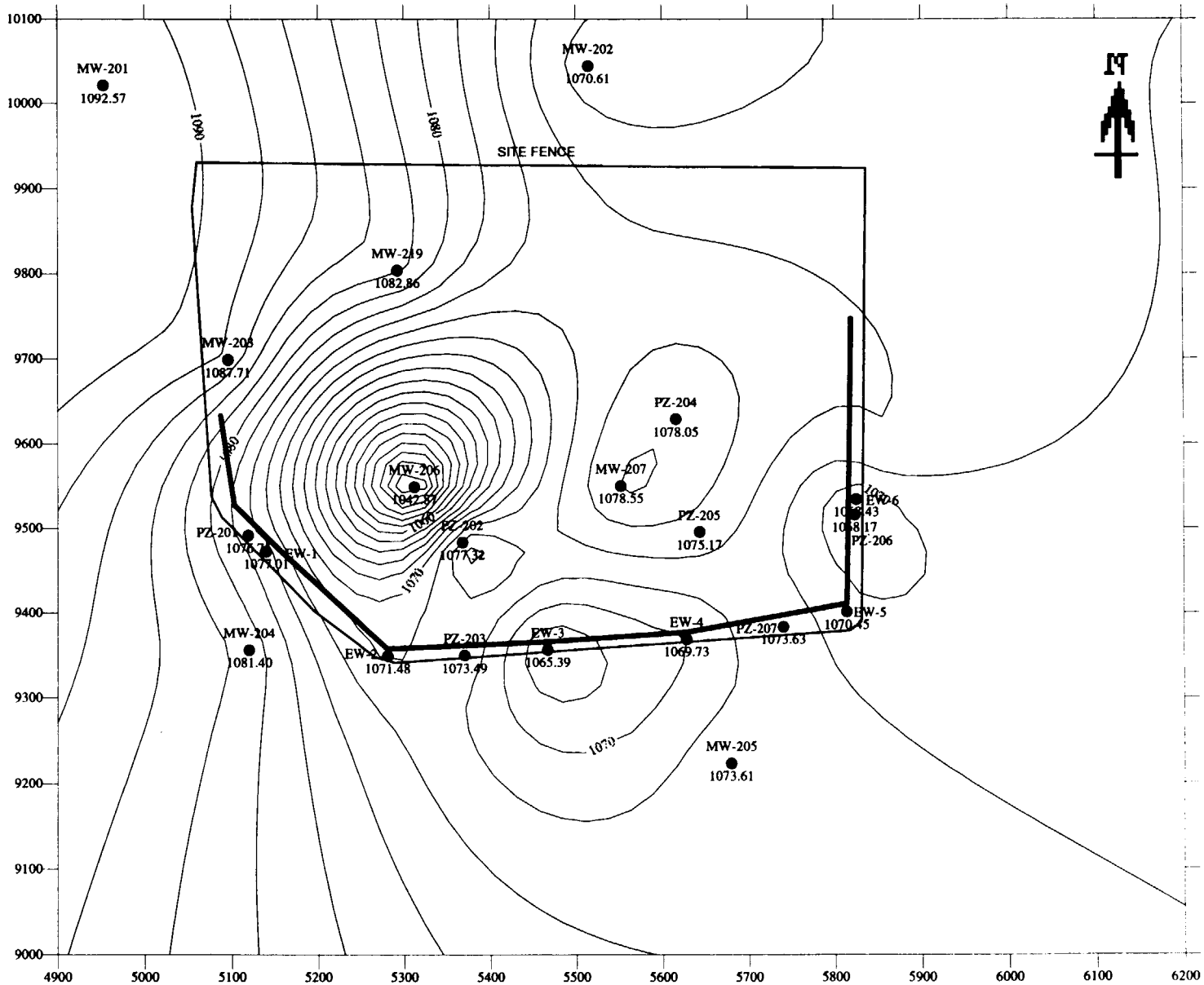
GROUNDWATER CONTOURS
UPPER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
DEC. 21, 1994



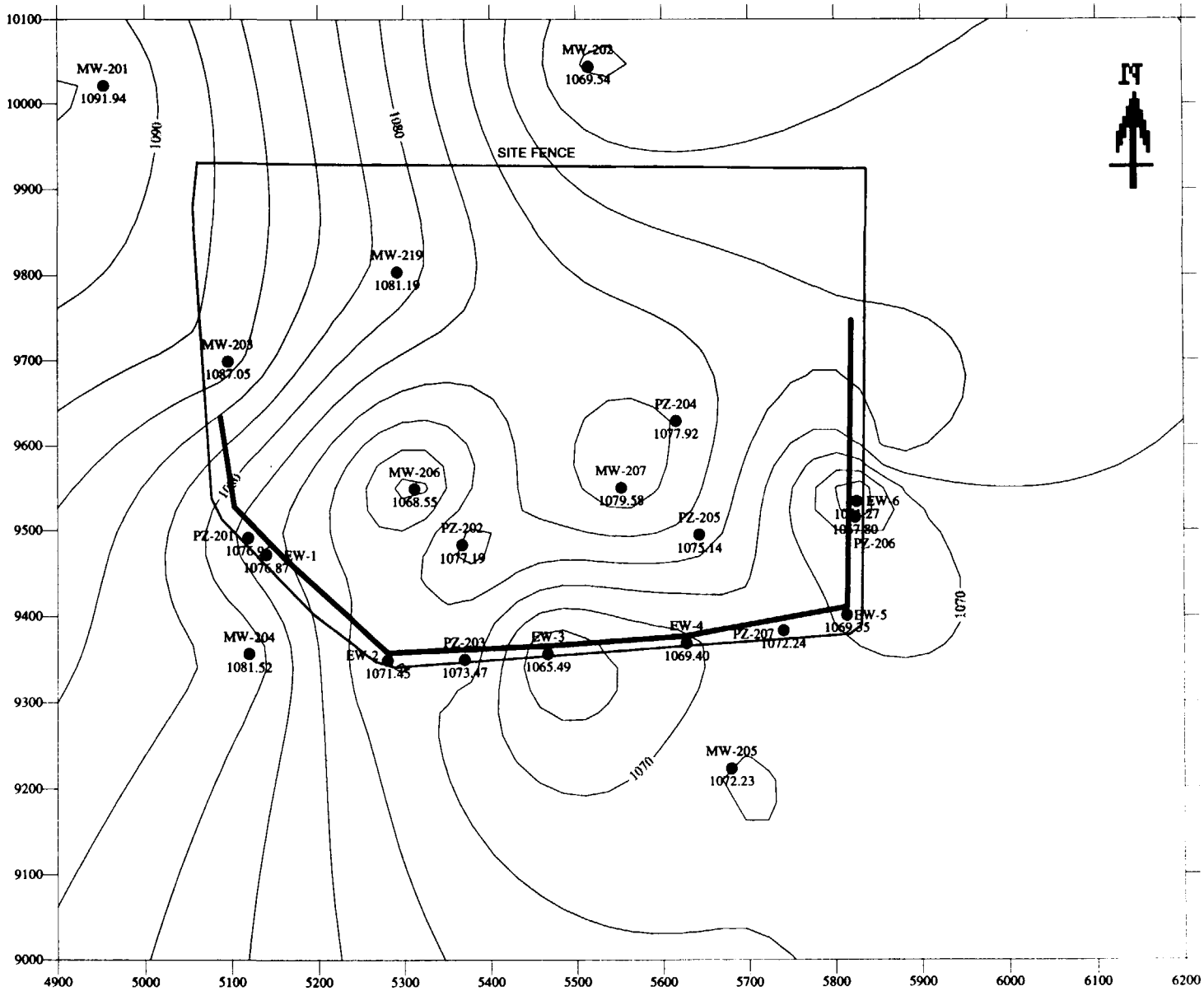
GROUNDWATER CONTOURS
UPPER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
DEC. 5, 1994



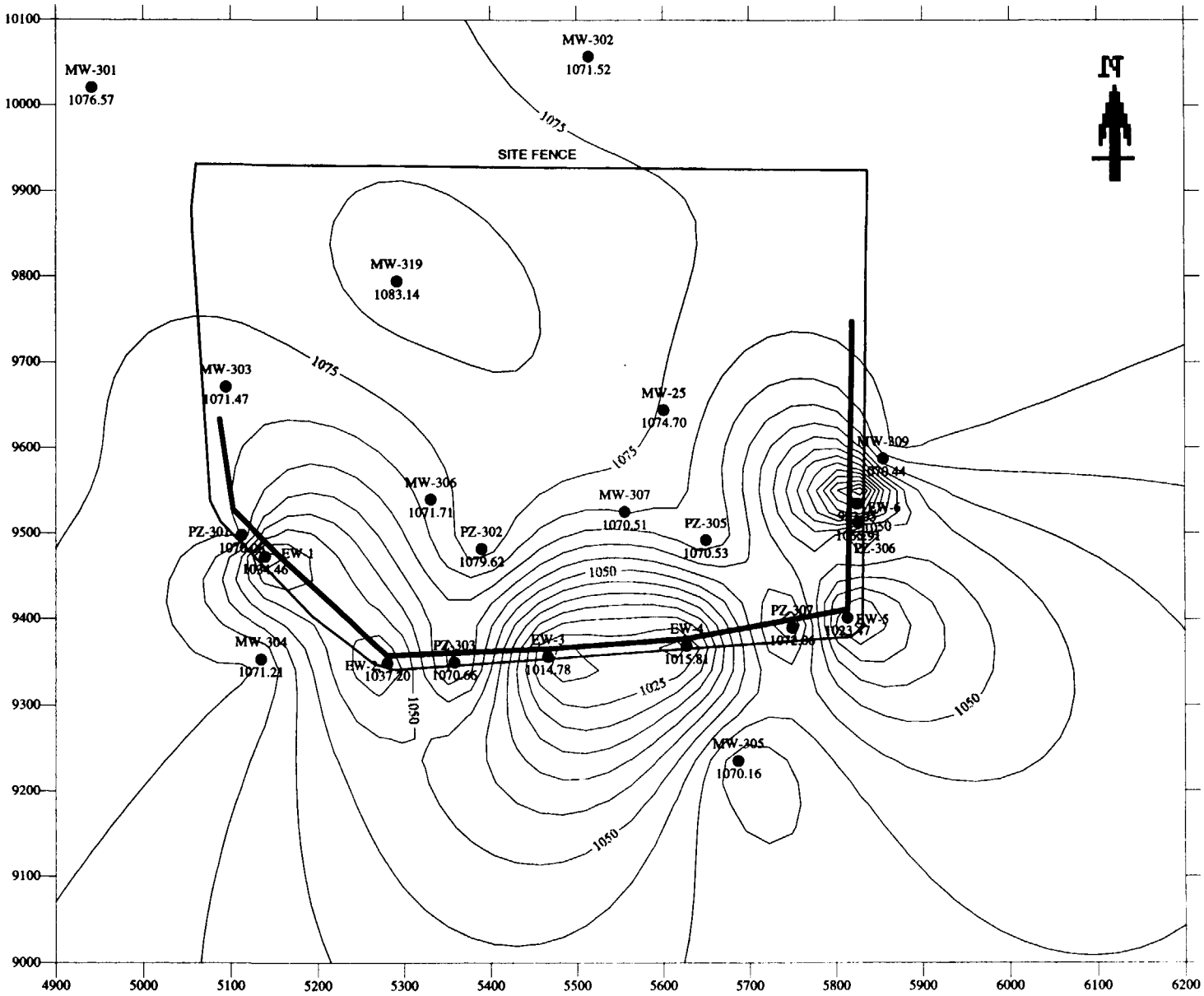
GROUNDWATER CONTOURS
UPPER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
NOV. 21, 1994



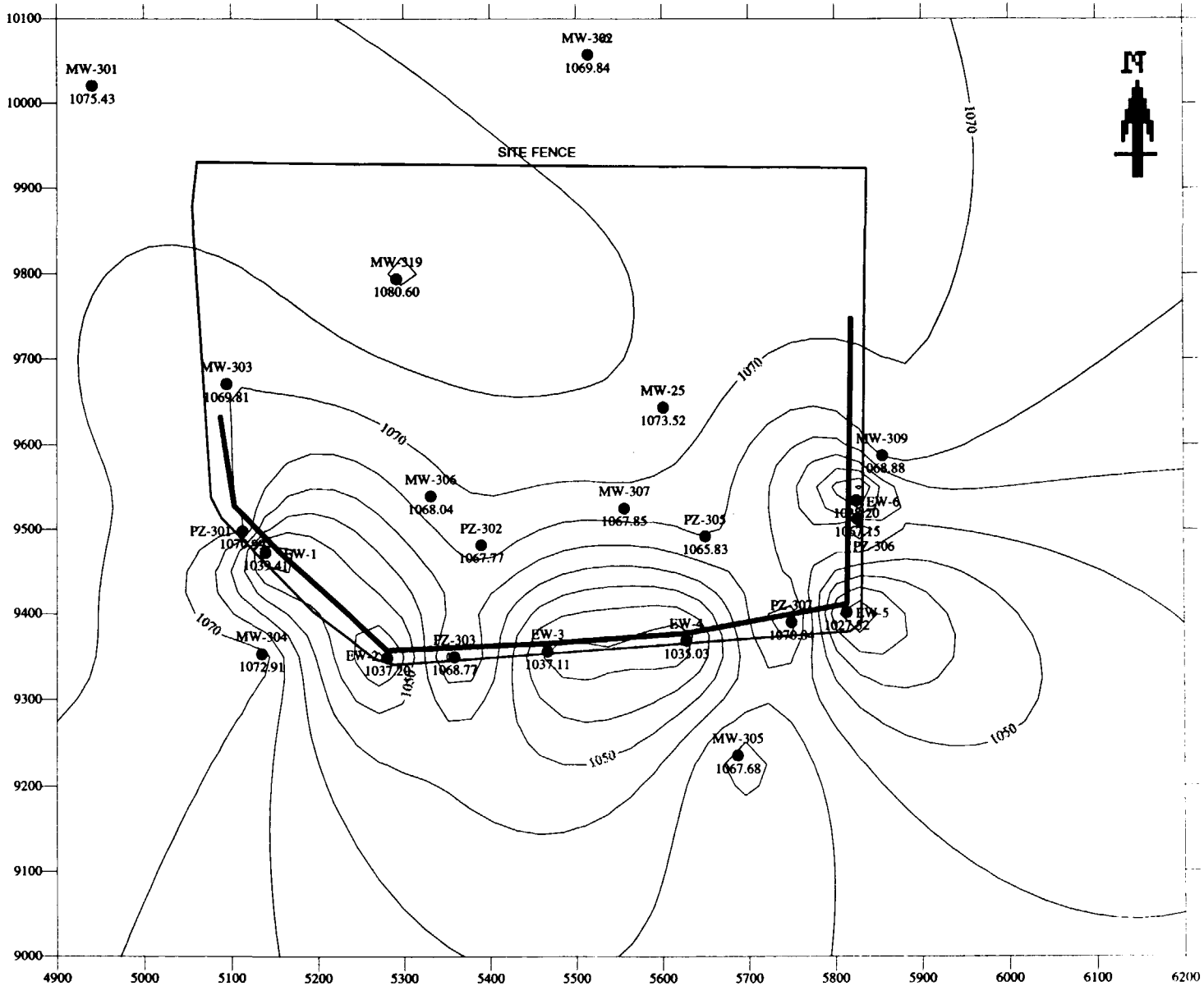
GROUNDWATER CONTOURS
UPPER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
NOV. 7, 1994



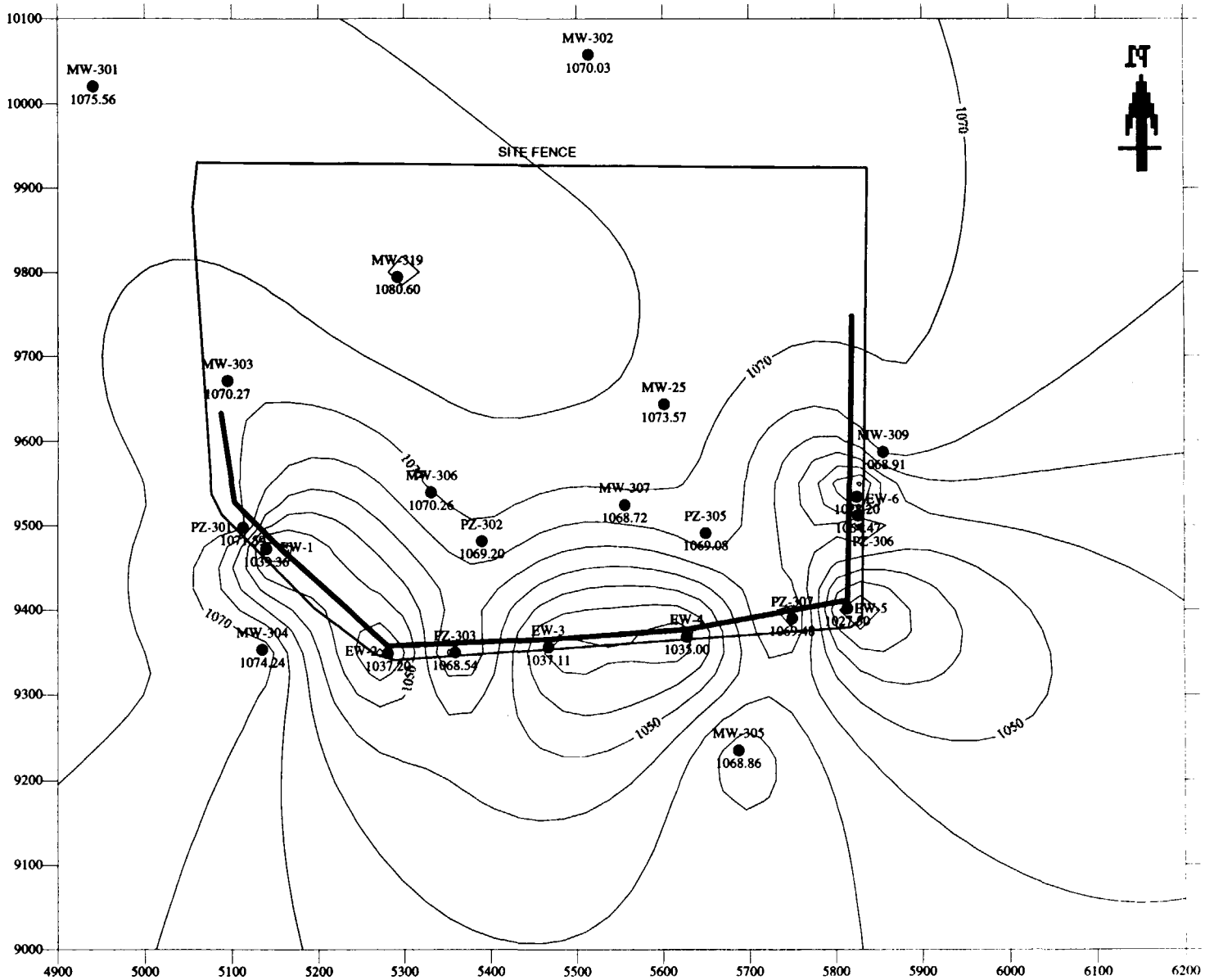
GROUNDWATER CONTOURS
LOWER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
JAN. 30, 1995



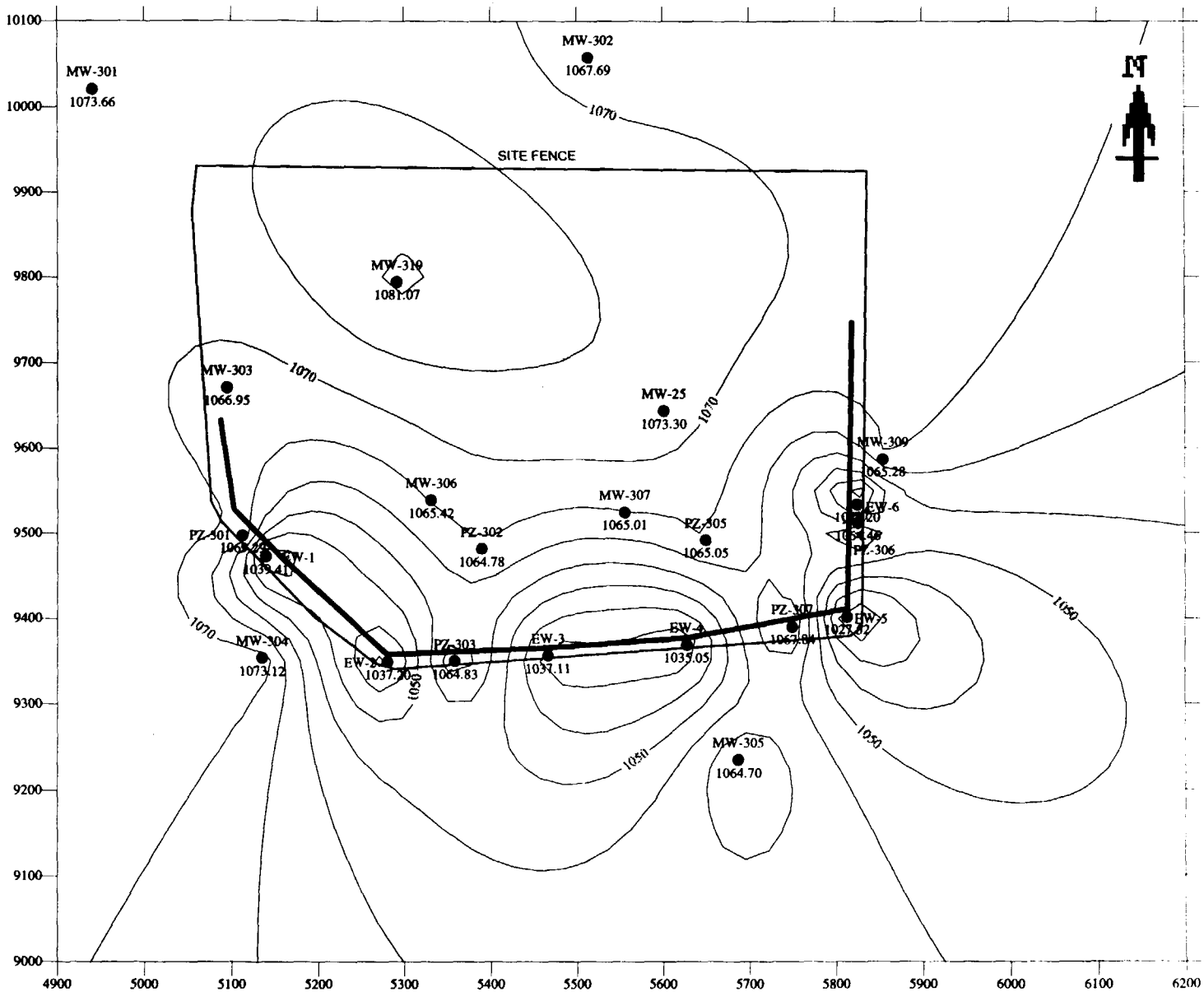
GROUNDWATER CONTOURS
LOWER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
JAN. 17, 1995



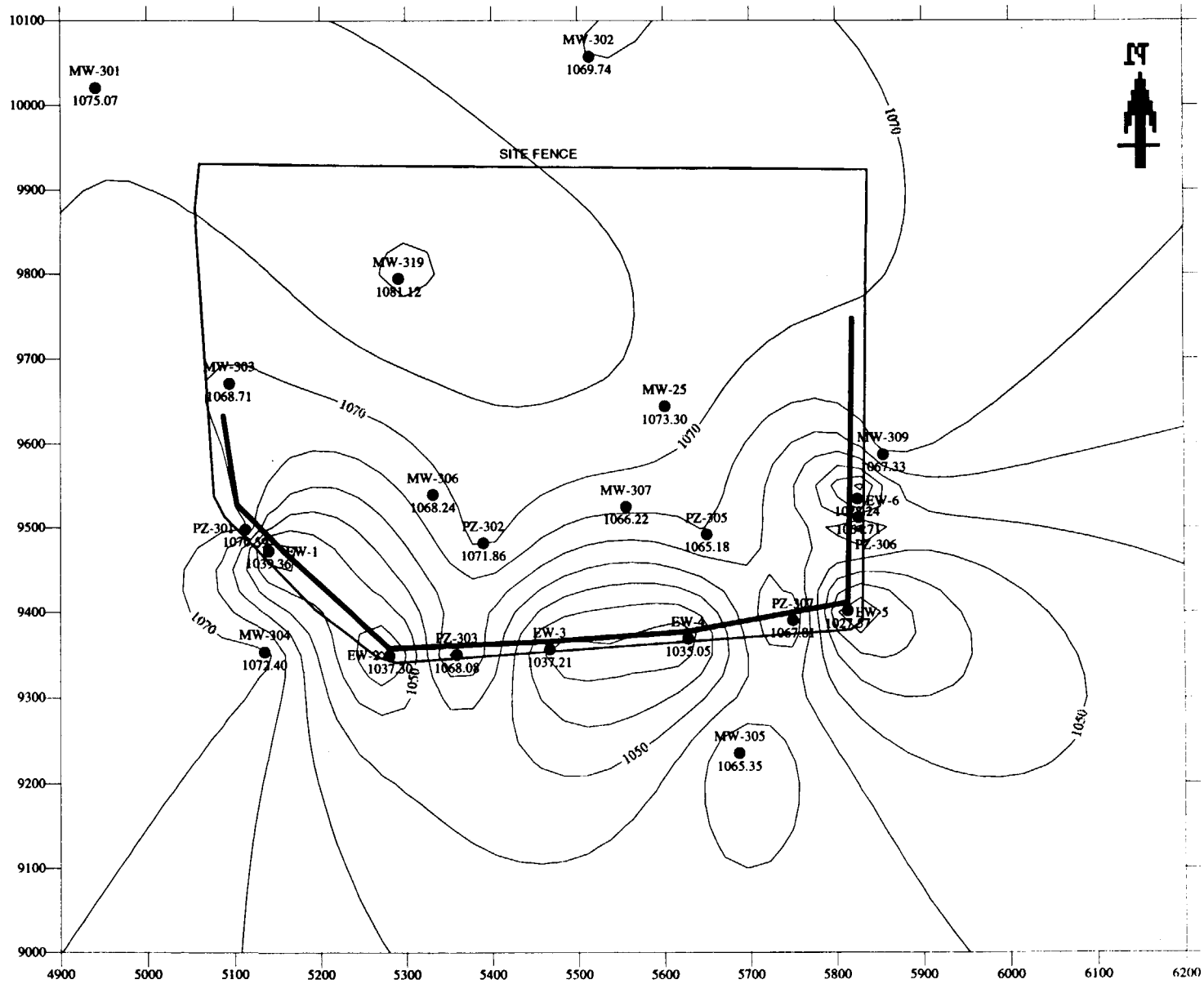
GROUNDWATER CONTOURS
LOWER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
JAN. 5/6, 1995



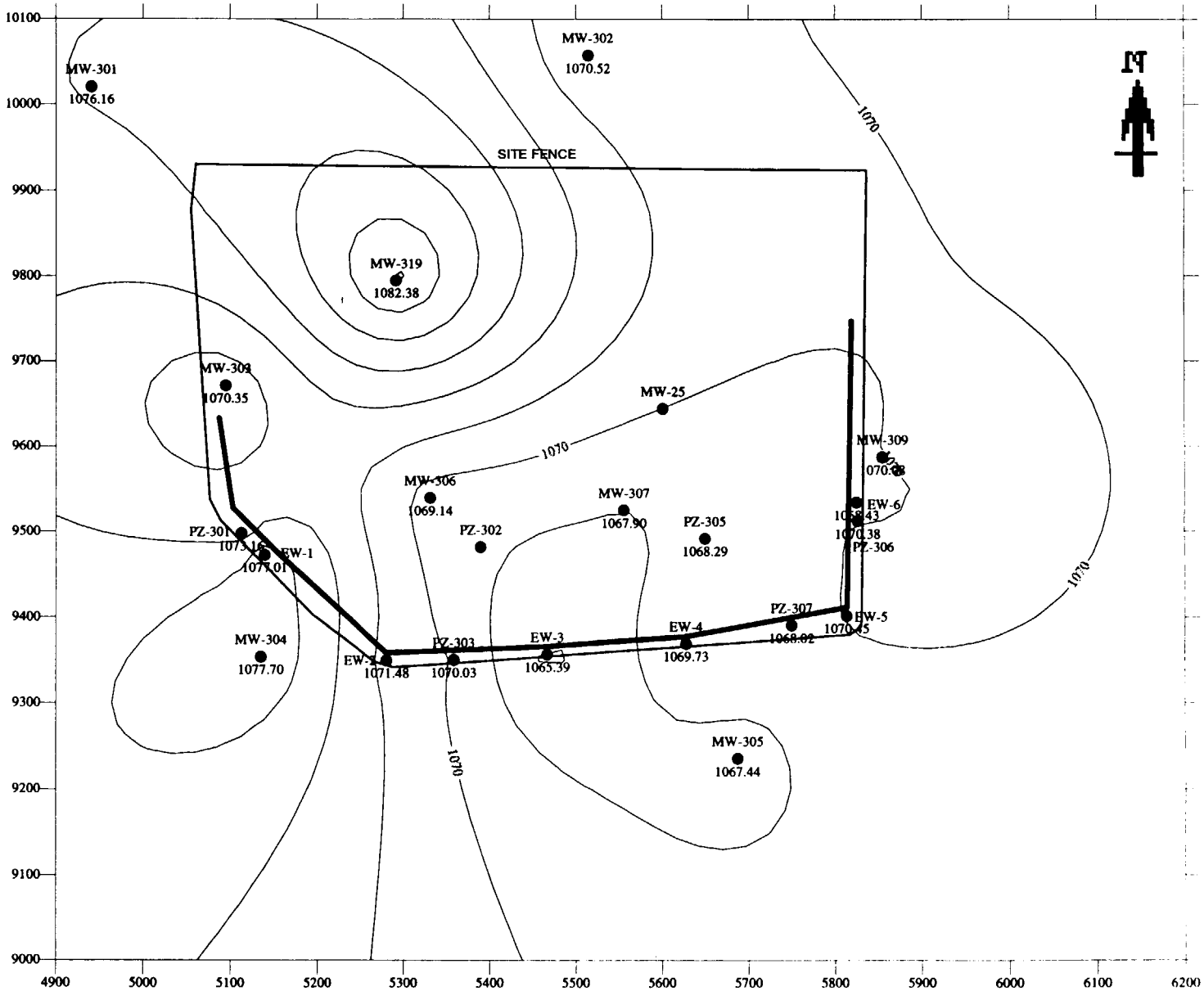
GROUNDWATER CONTOURS
LOWER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
DEC. 21, 1994



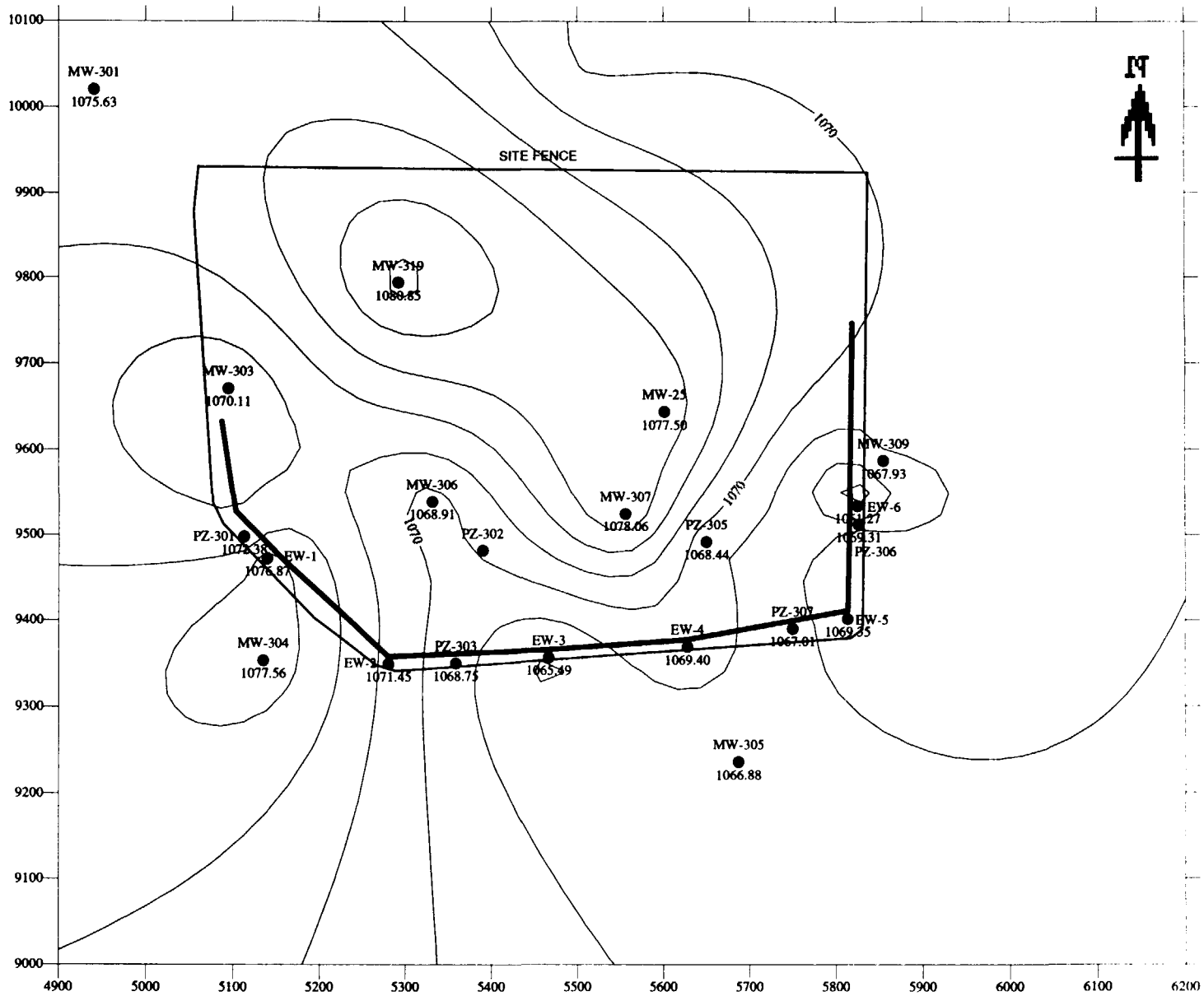
GROUNDWATER CONTOURS
LOWER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
DEC. 5, 1994



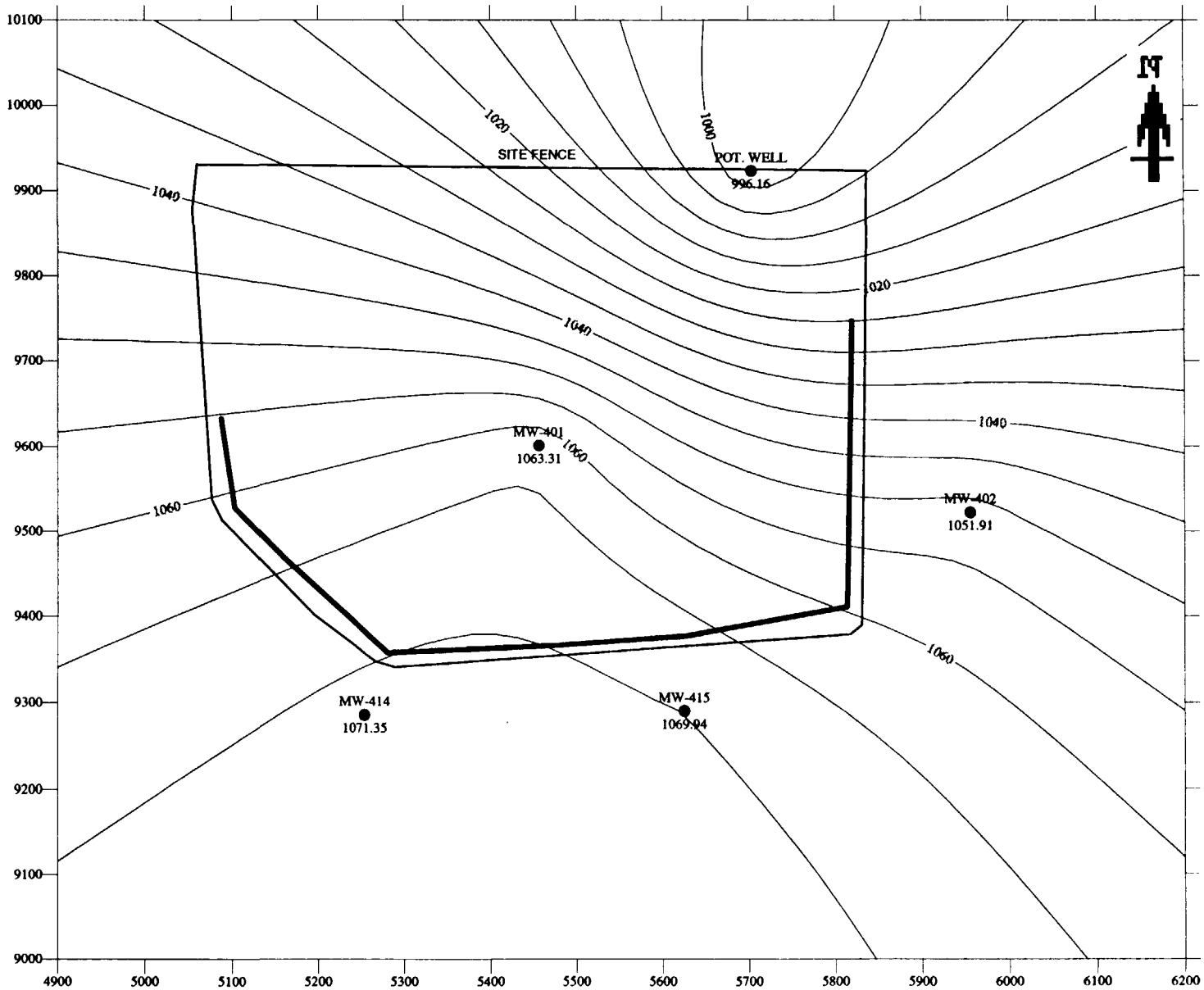
GROUNDWATER CONTOURS
LOWER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
NOV. 21, 1994



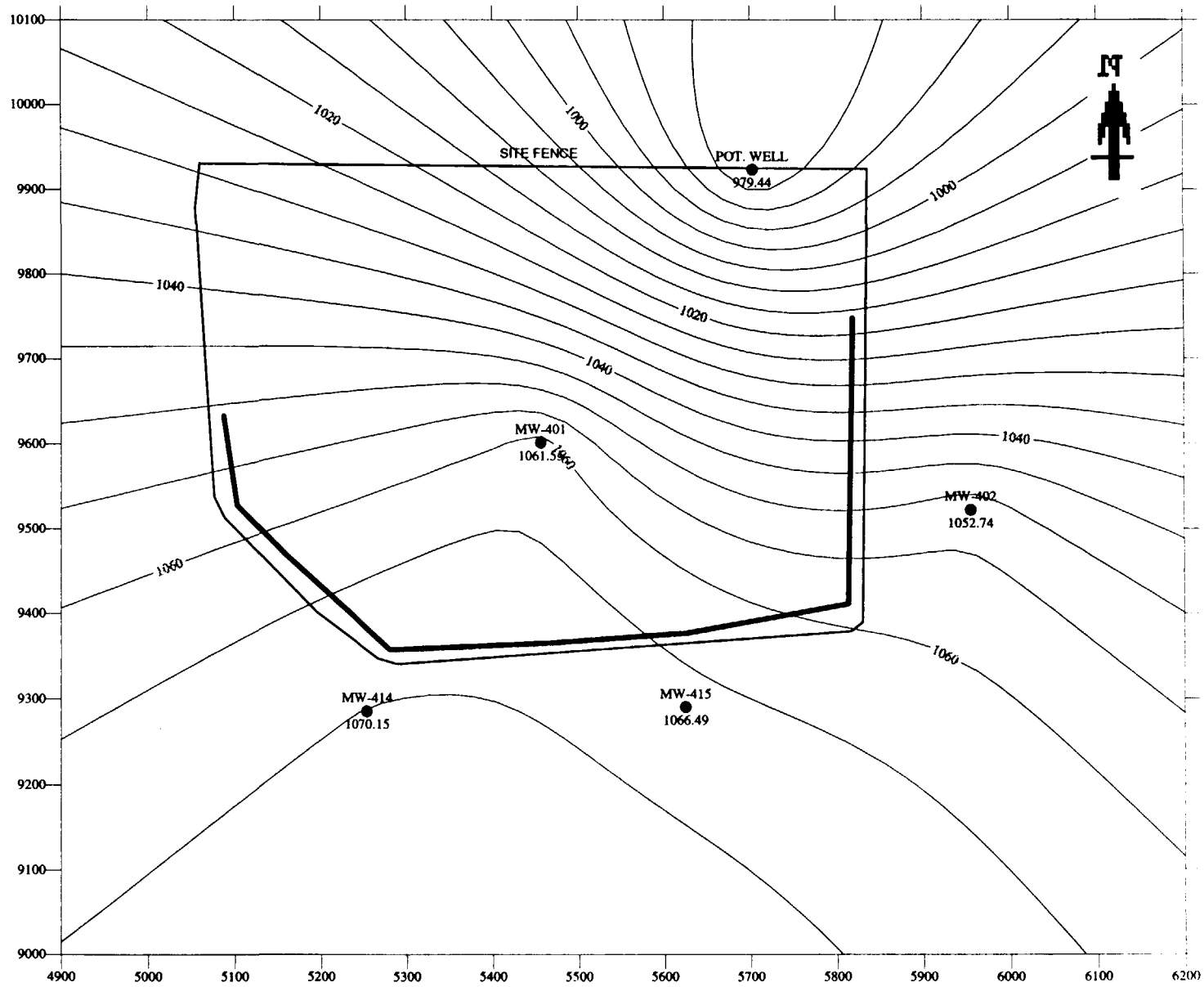
GROUNDWATER CONTOURS
LOWER INTERMEDIATE UNIT
SUMMIT NATIONAL SUPERFUND SITE
NOV. 7, 1994



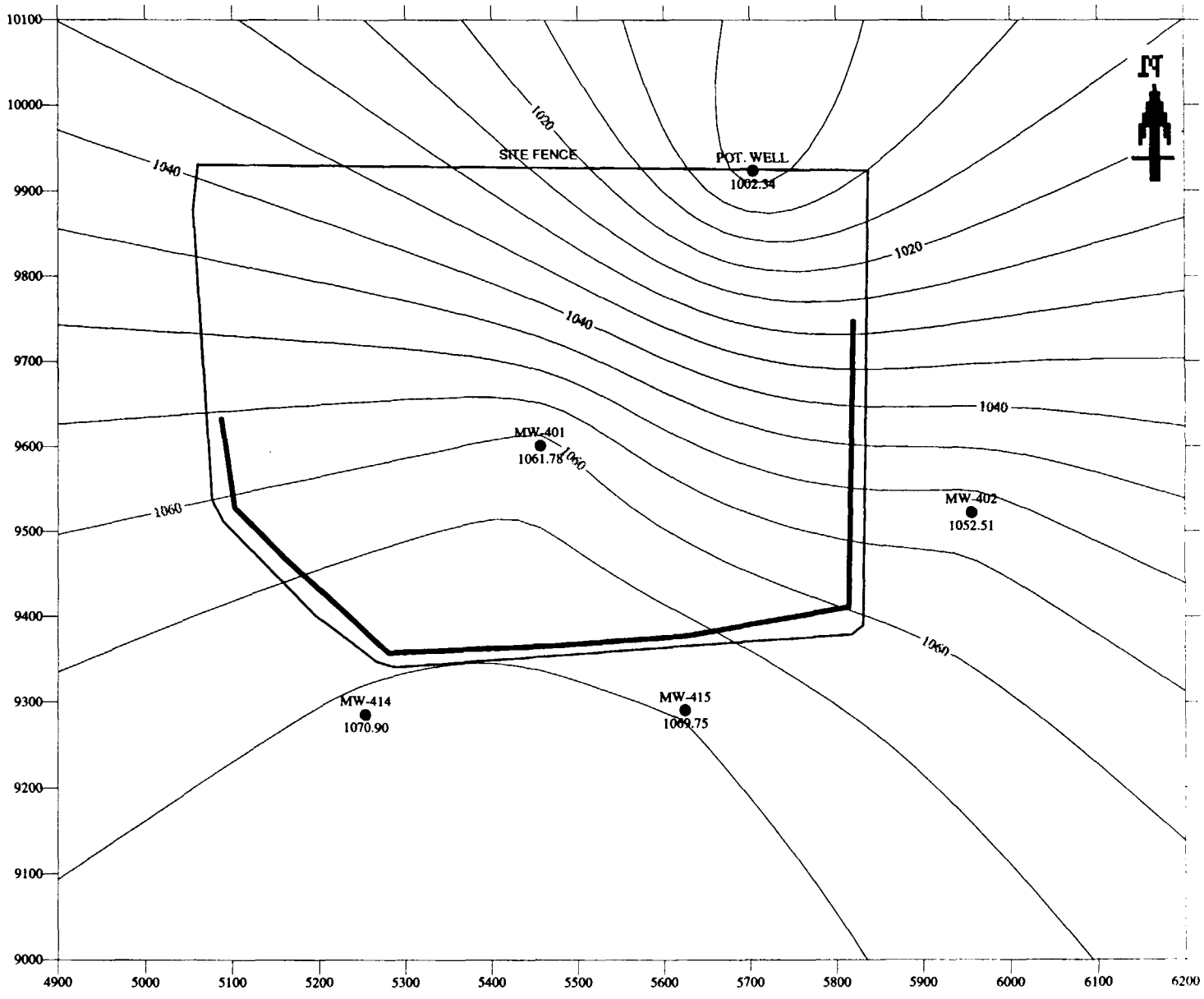
GROUNDWATER CONTOURS
UPPER SHARON UNIT
SUMMIT NATIONAL SUPERFUND SITE
JAN. 30, 1995



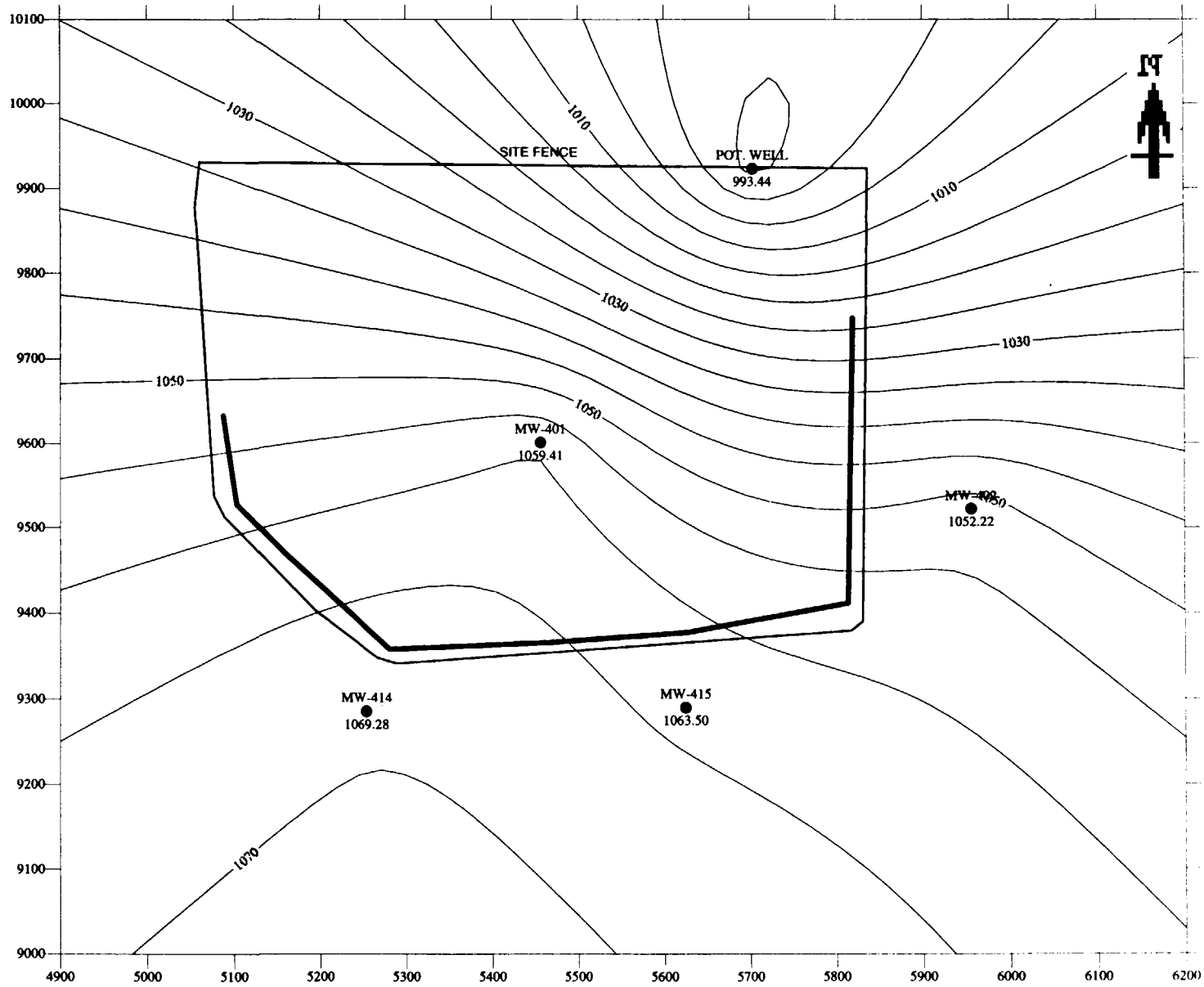
GROUNDWATER CONTOURS
UPPER SHARON UNIT
SUMMIT NATIONAL SUPERFUND SITE
JAN. 17, 1995



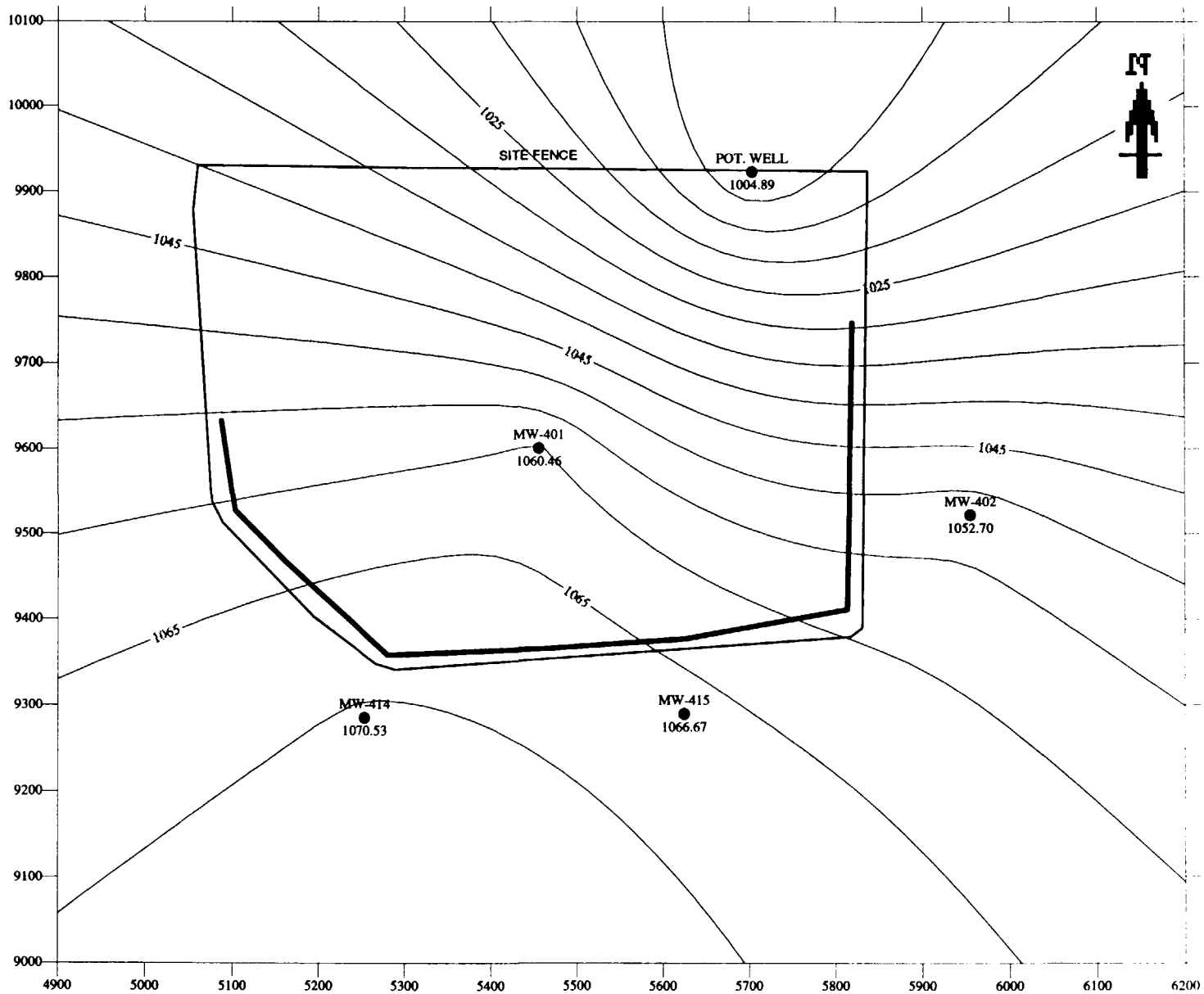
GROUNDWATER CONTOURS
UPPER SHARON UNIT
SUMMIT NATIONAL SUPERFUND SITE
JAN. 5/6, 1995



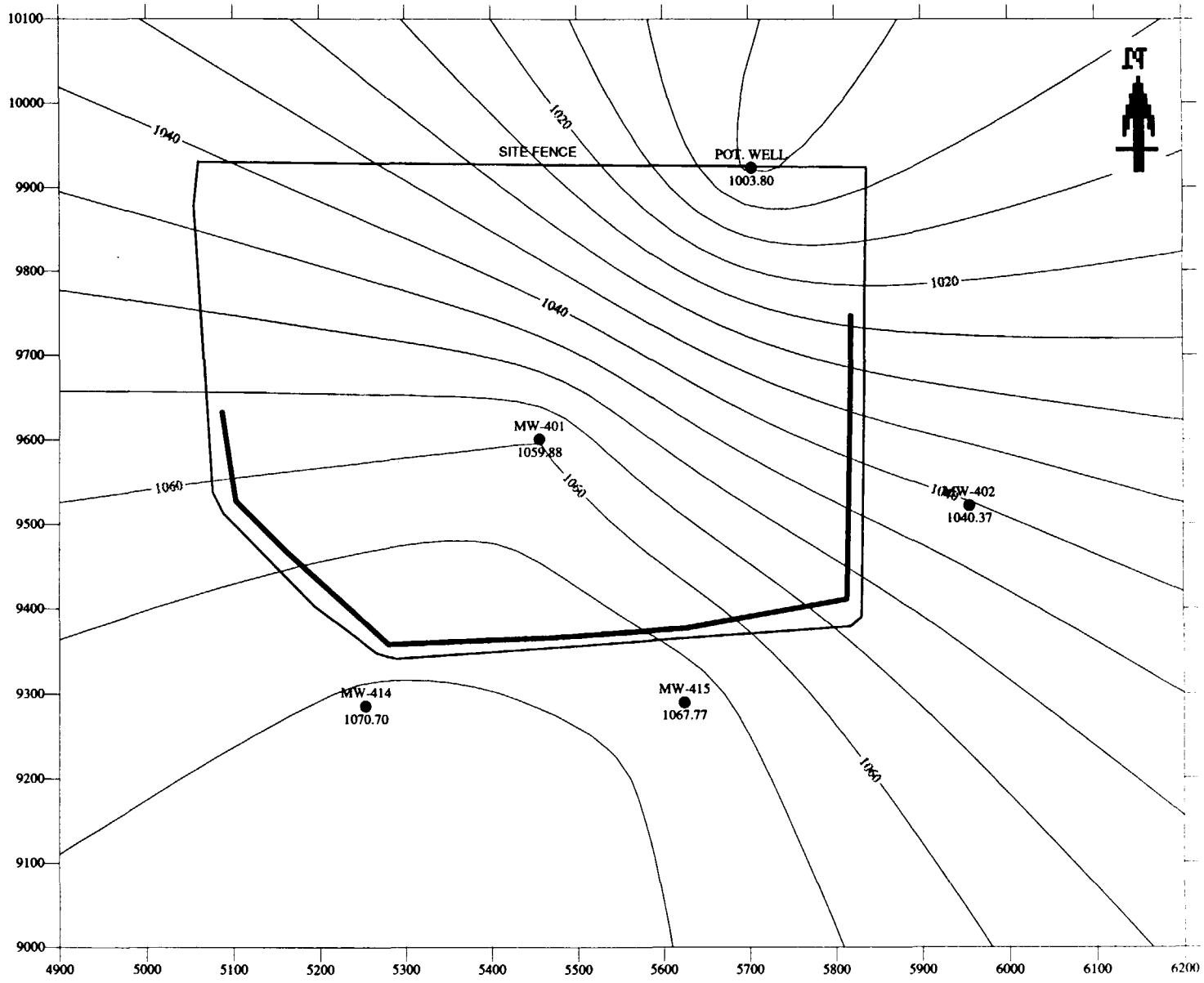
GROUNDWATER CONTOURS
UPPER SHARON UNIT
SUMMIT NATIONAL SUPERFUND SITE
DEC. 21, 1994



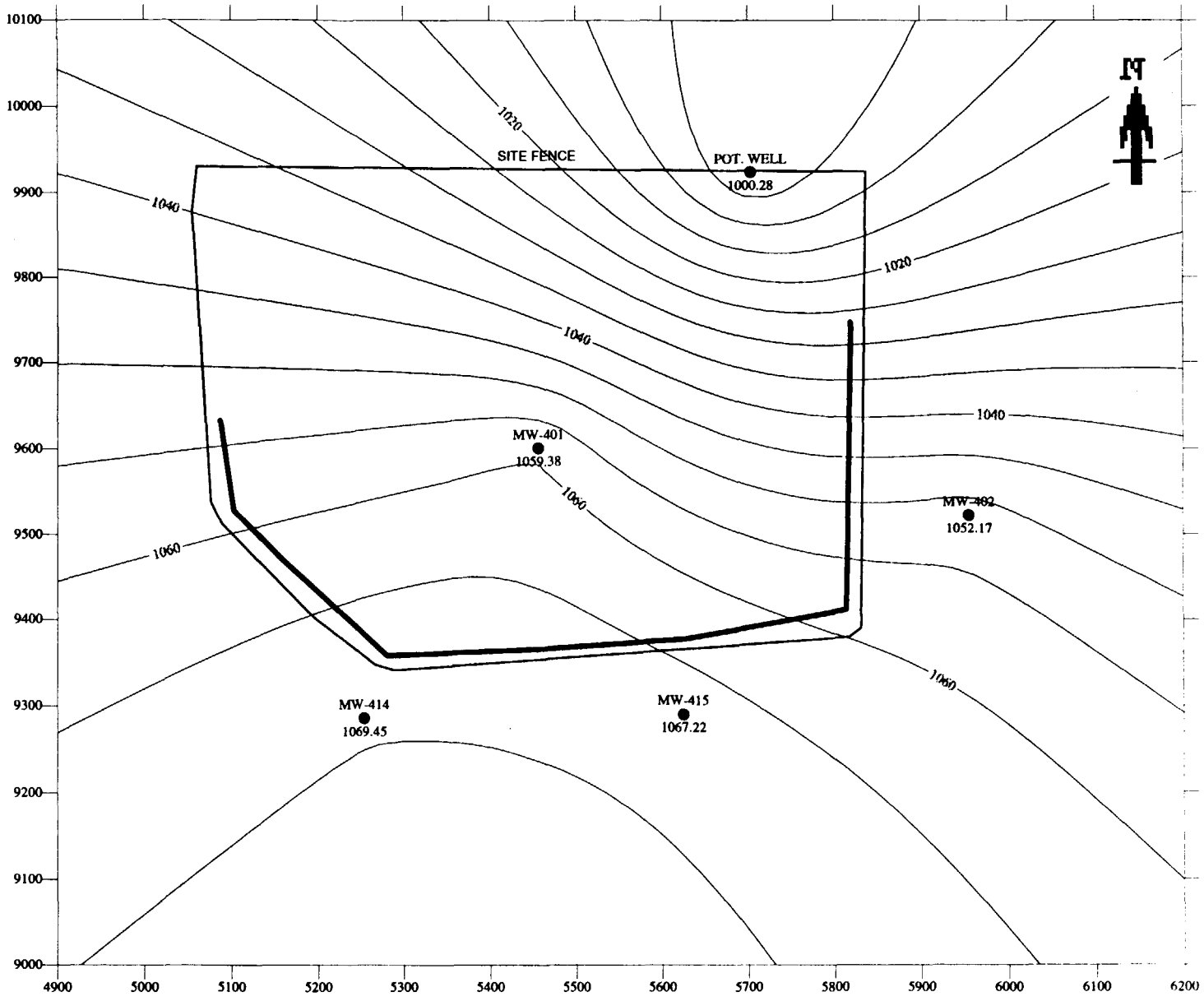
GROUNDWATER CONTOURS
UPPER SHARON UNIT
SUMMIT NATIONAL SUPERFUND SITE
DEC. 5, 1994



GROUNDWATER CONTOURS
UPPER SHARON UNIT
SUMMIT NATIONAL SUPERFUND SITE
NOV. 21, 1994



GROUNDWATER CONTOURS
UPPER SHARON UNIT
SUMMIT NATIONAL SUPERFUND SITE
NOV. 7, 1994

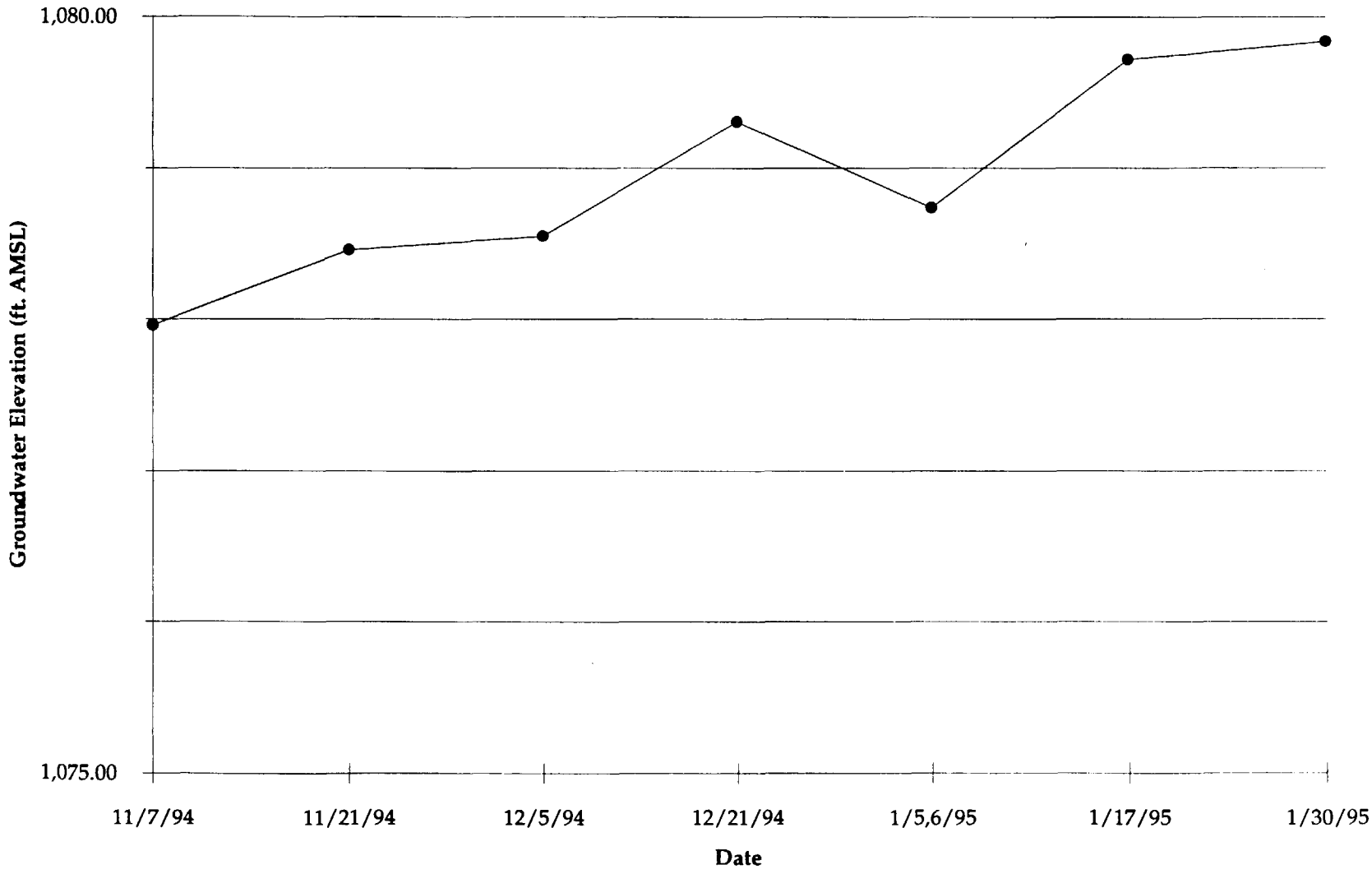


F

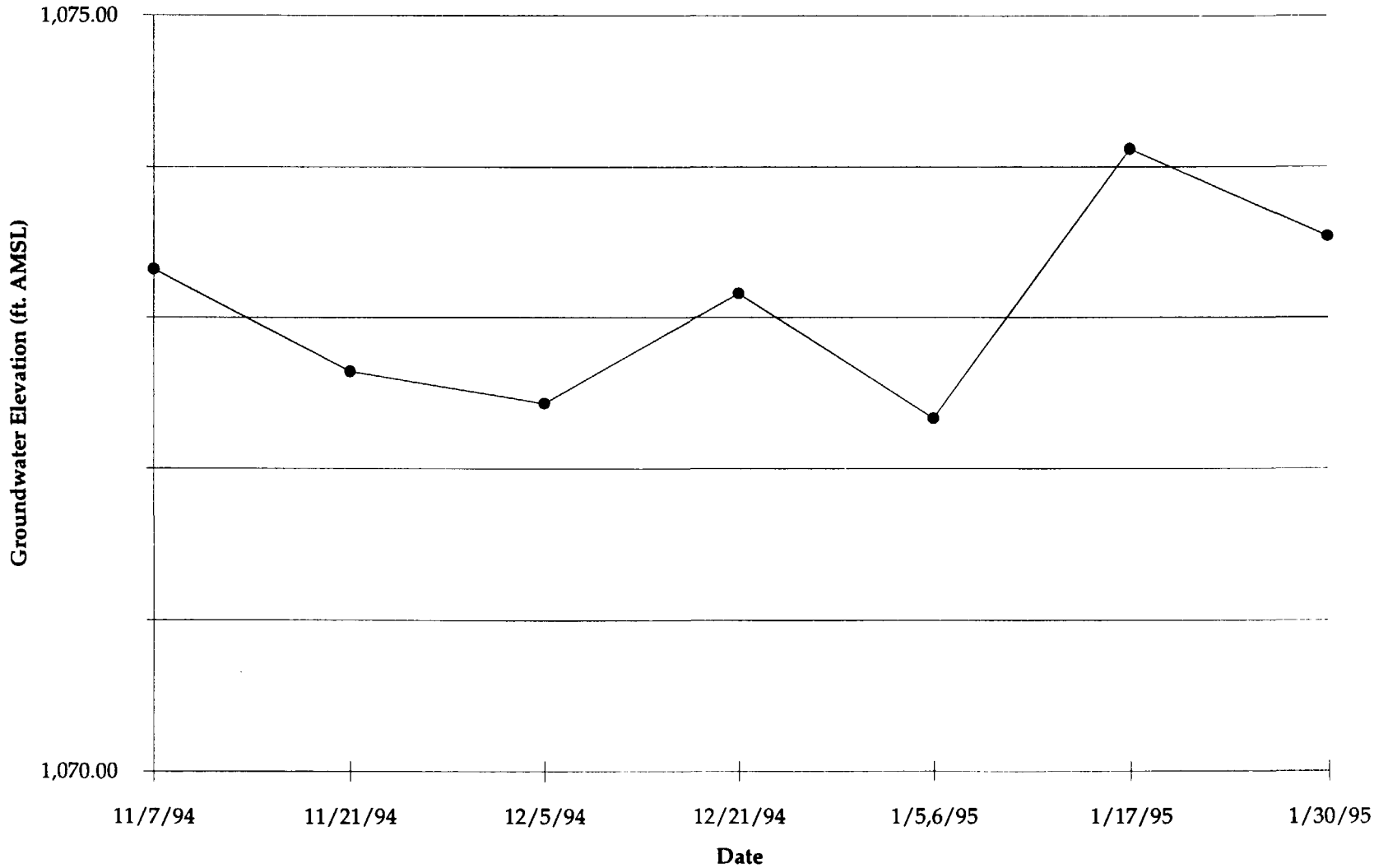
ATTACHMENT F

GROUNDWATER HYDROGRAPHS

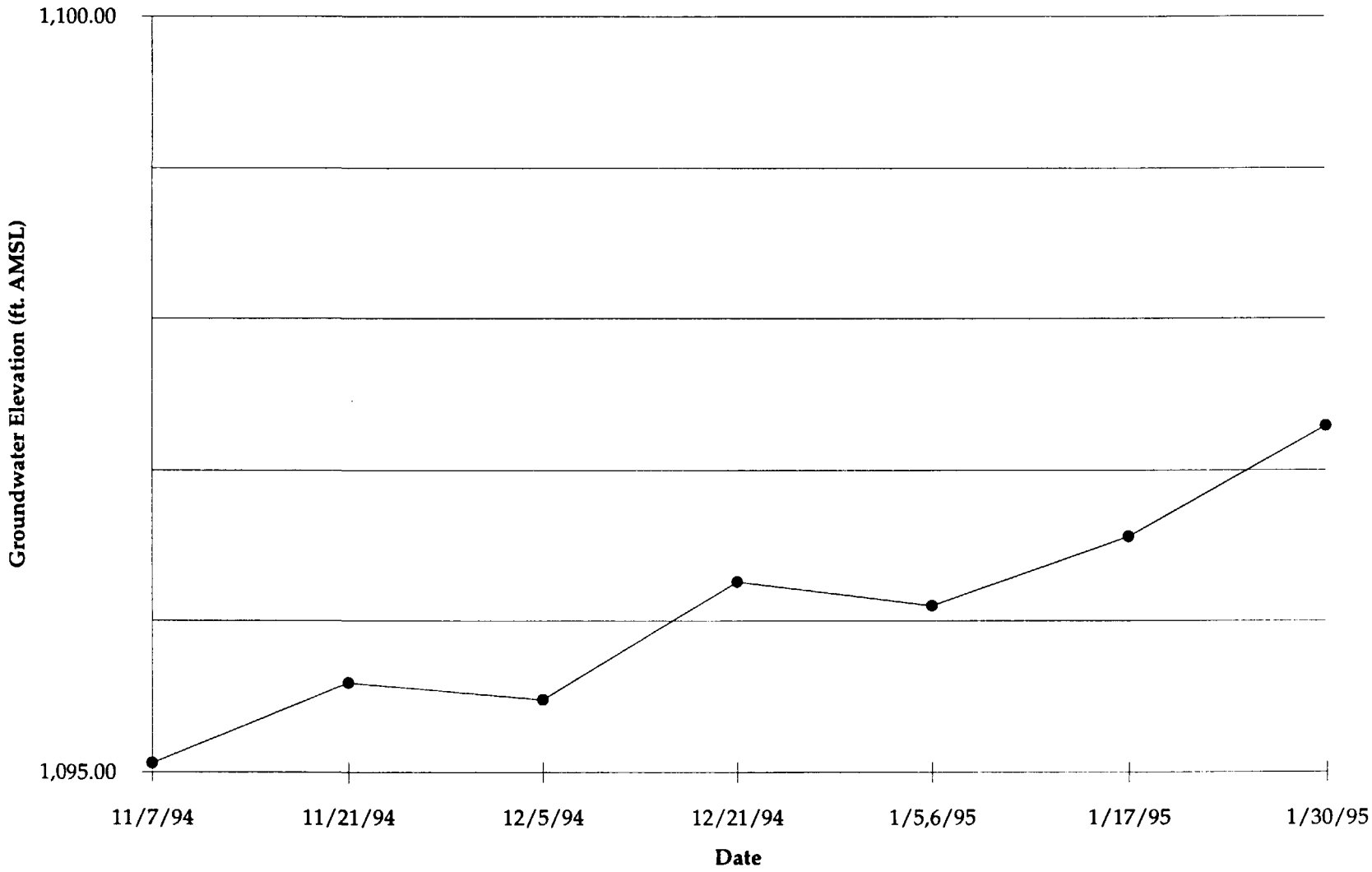
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-4
SUMMIT NATIONAL SUPERFUND SITE



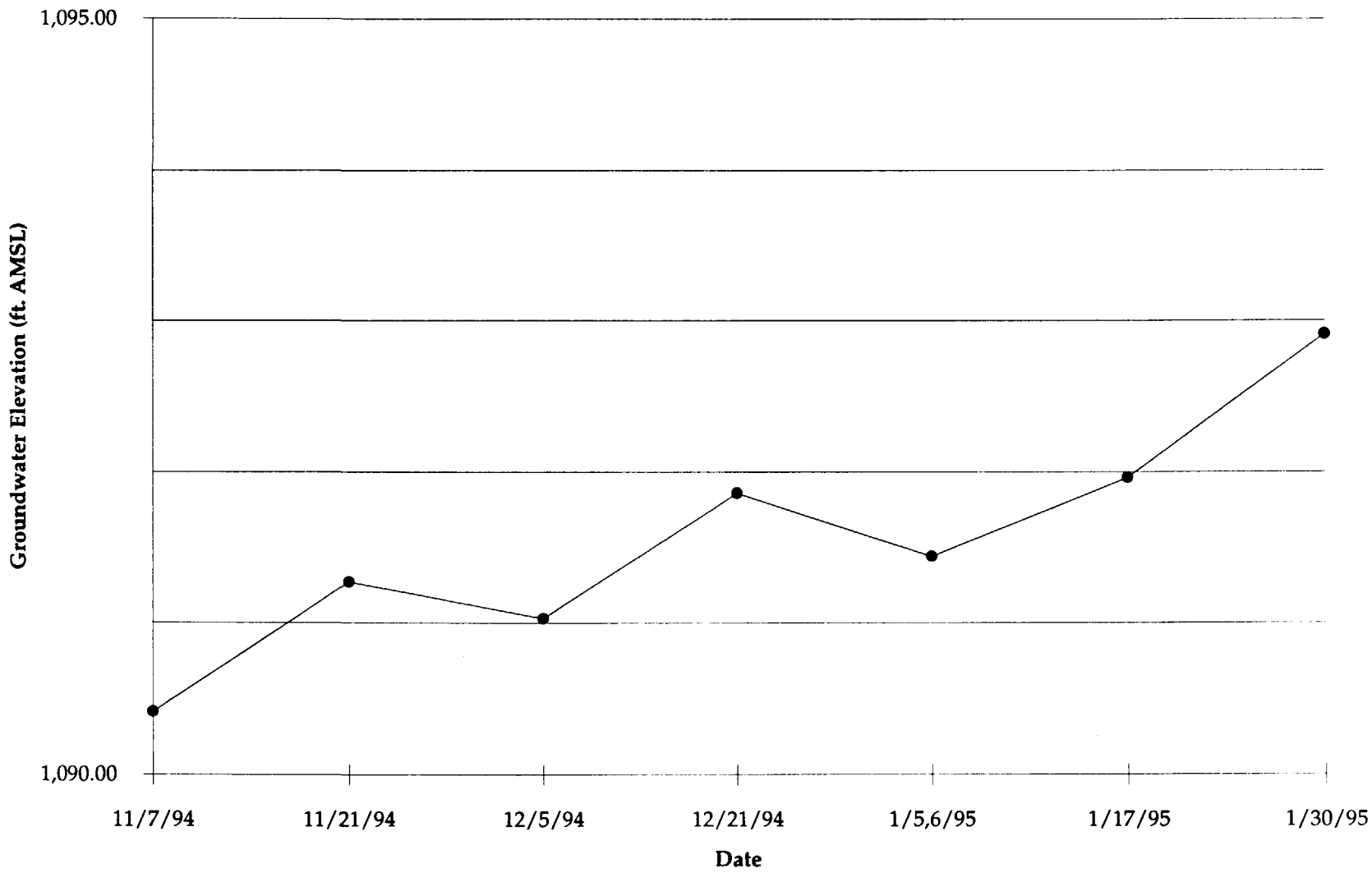
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-11
SUMMIT NATIONAL SUPERFUND SITE



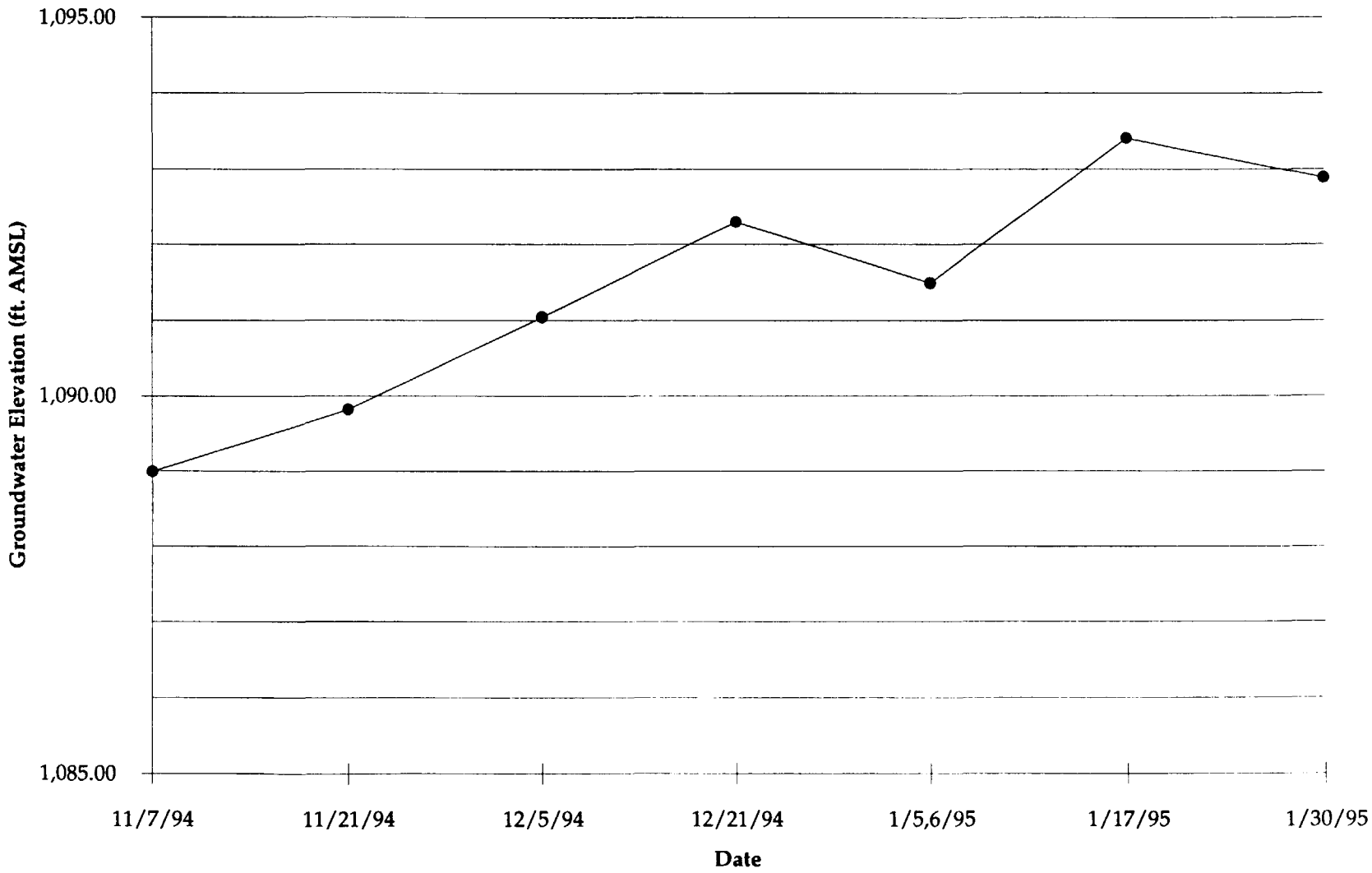
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-101
SUMMIT NATIONAL SUPERFUND SITE



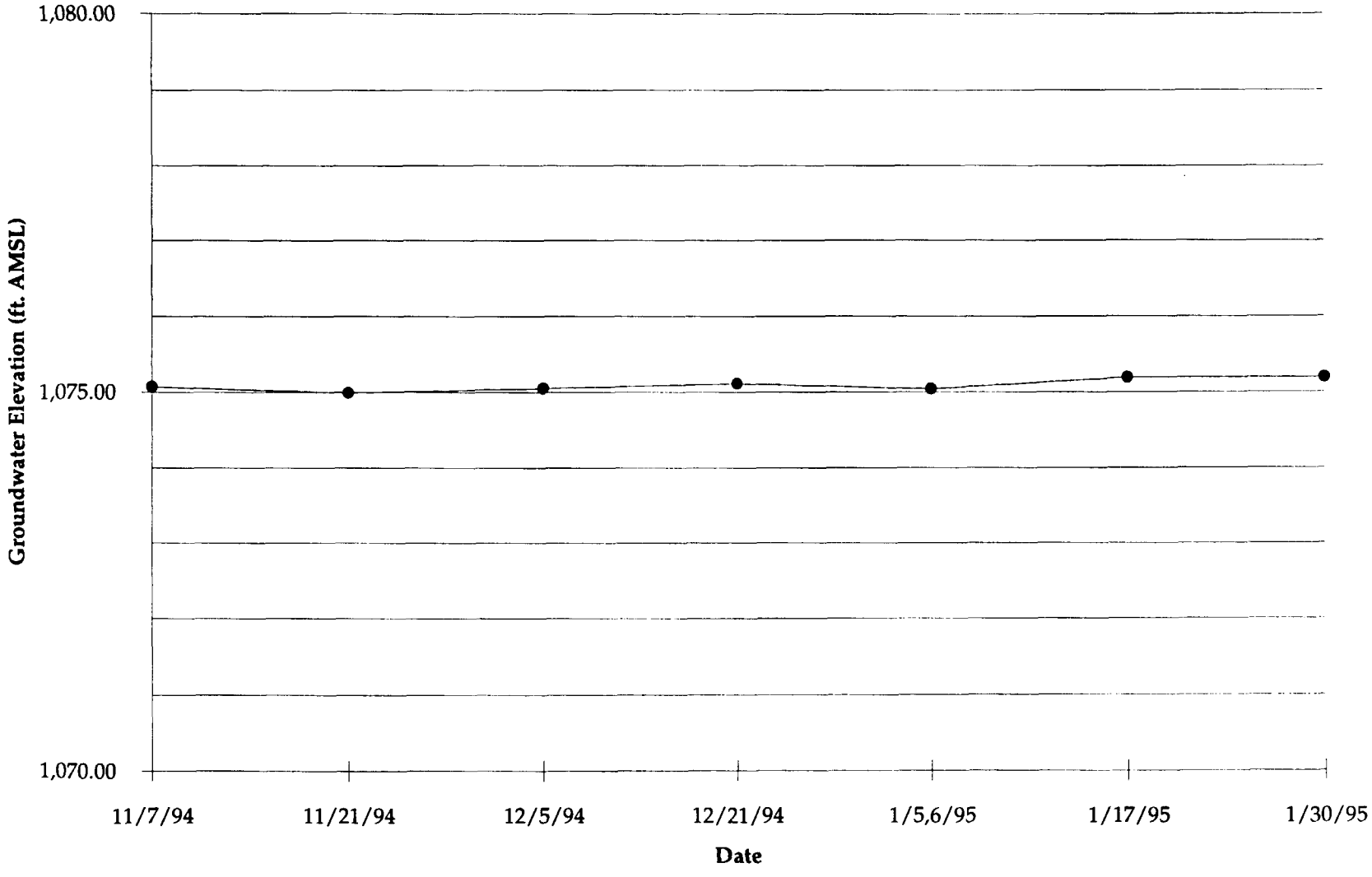
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-102
SUMMIT NATIONAL SUPERFUND SITE



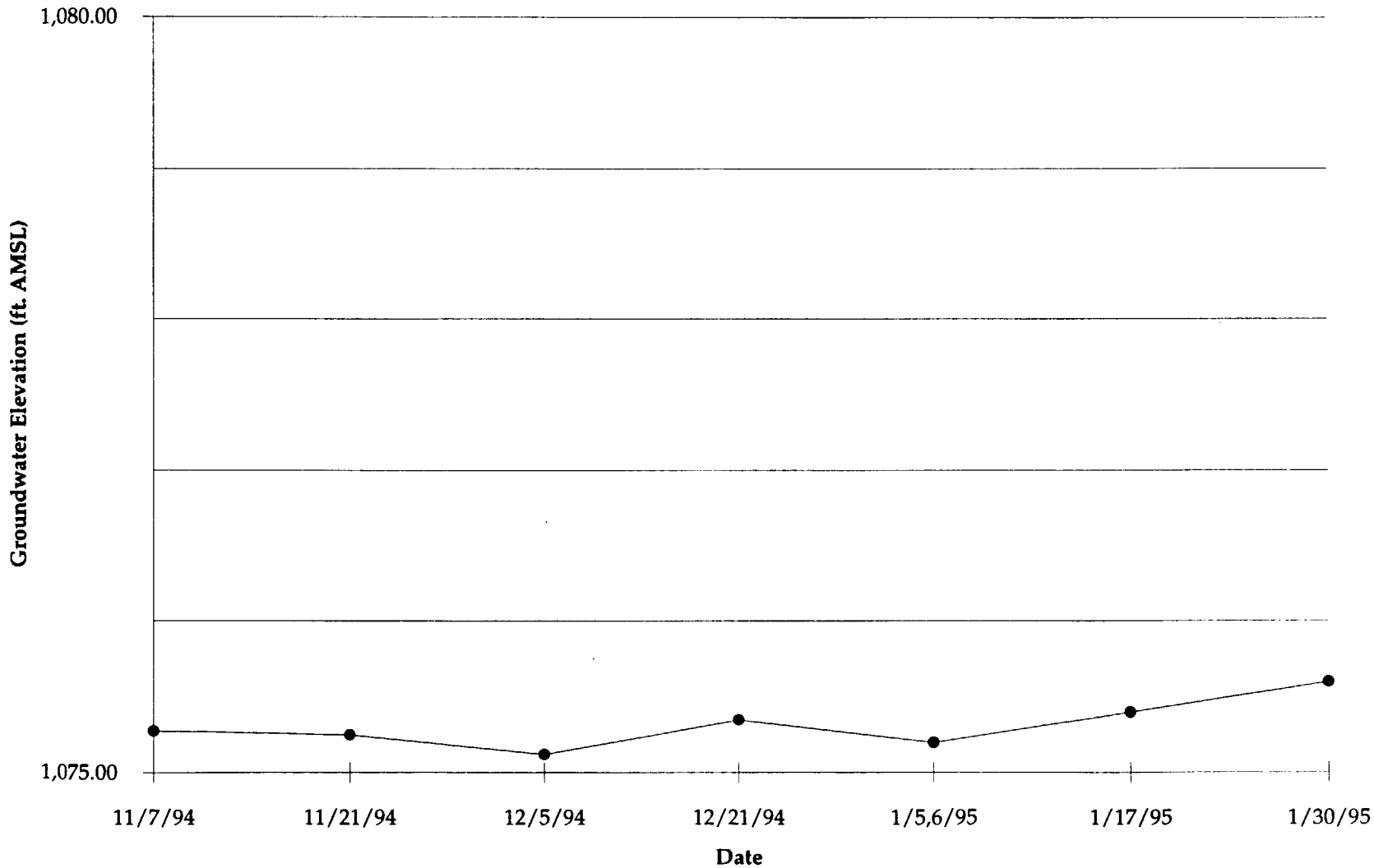
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-103
SUMMIT NATIONAL SUPERFUND SITE



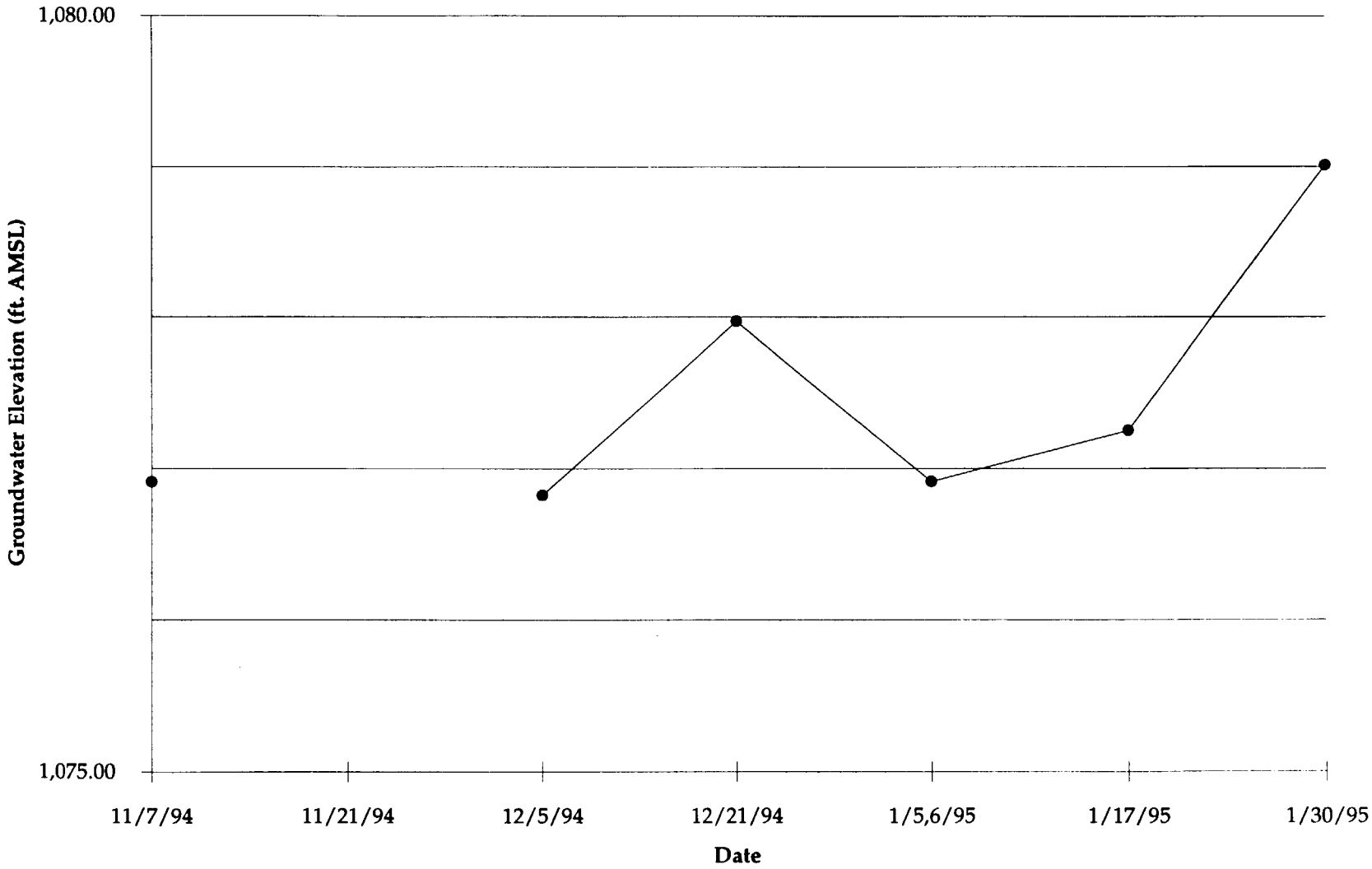
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-104
SUMMIT NATIONAL SUPERFUND SITE



GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-105
SUMMIT NATIONAL SUPERFUND SITE

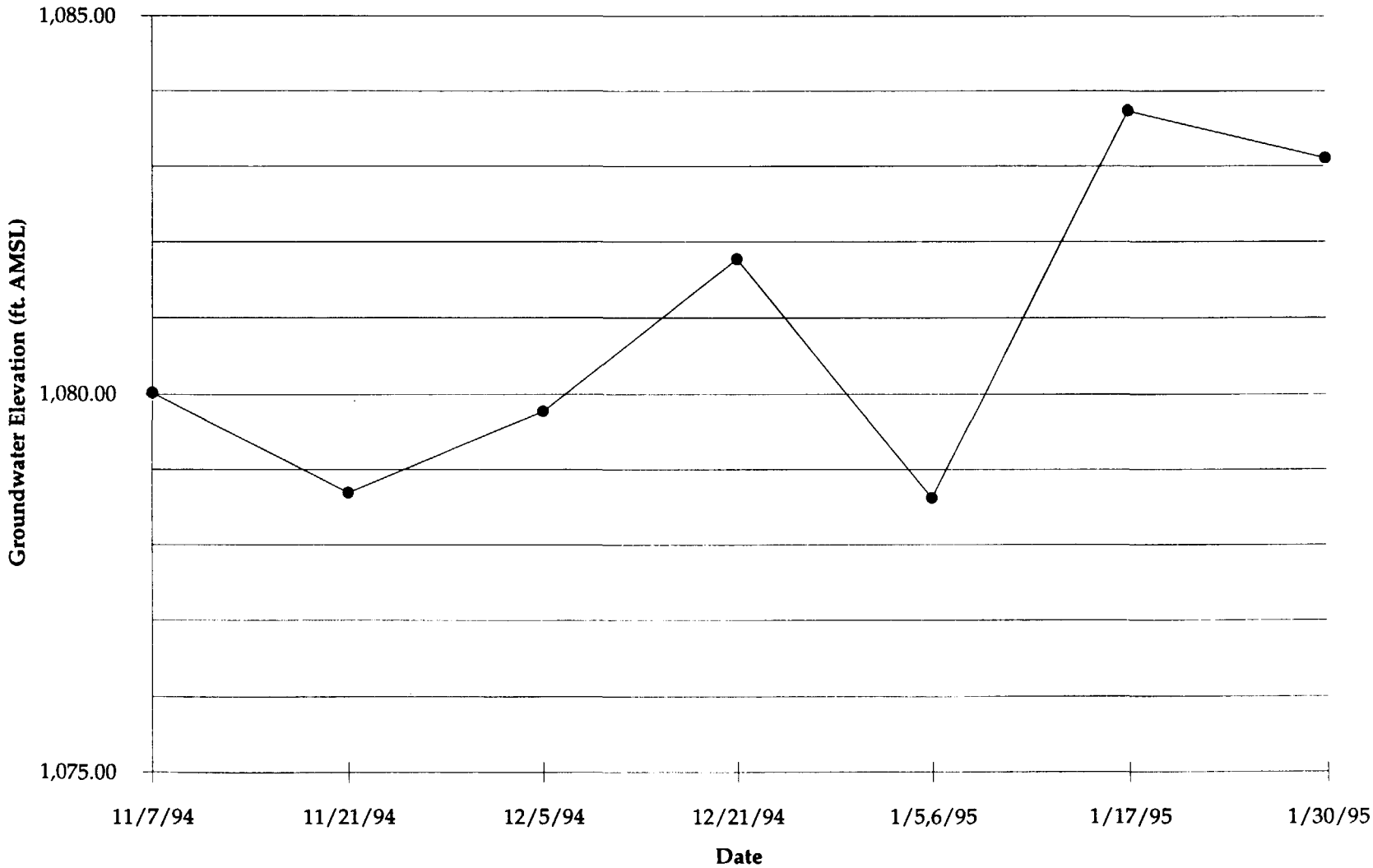


GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-106
SUMMIT NATIONAL SUPERFUND SITE

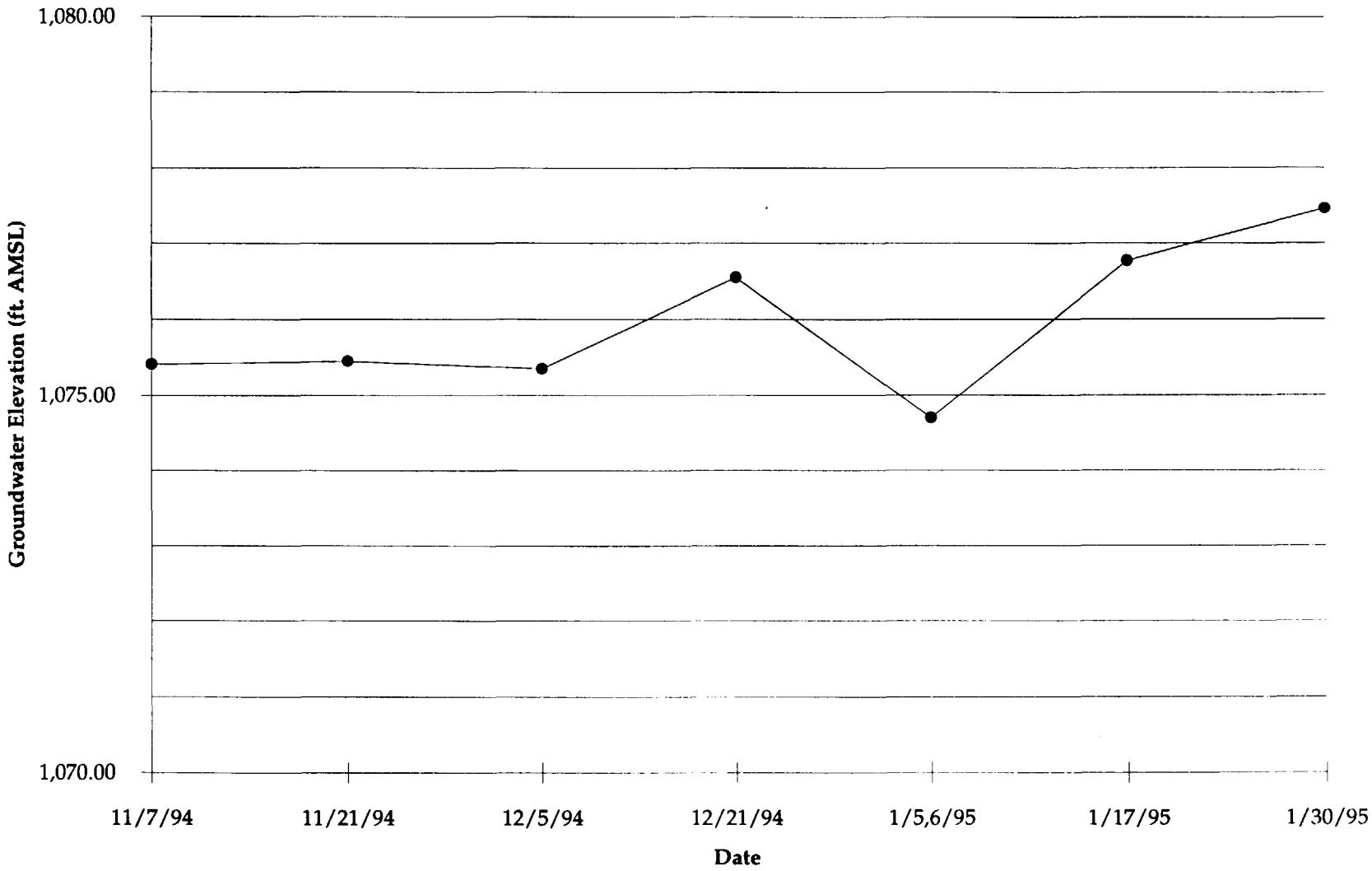


Note: No data available for 11/21/94

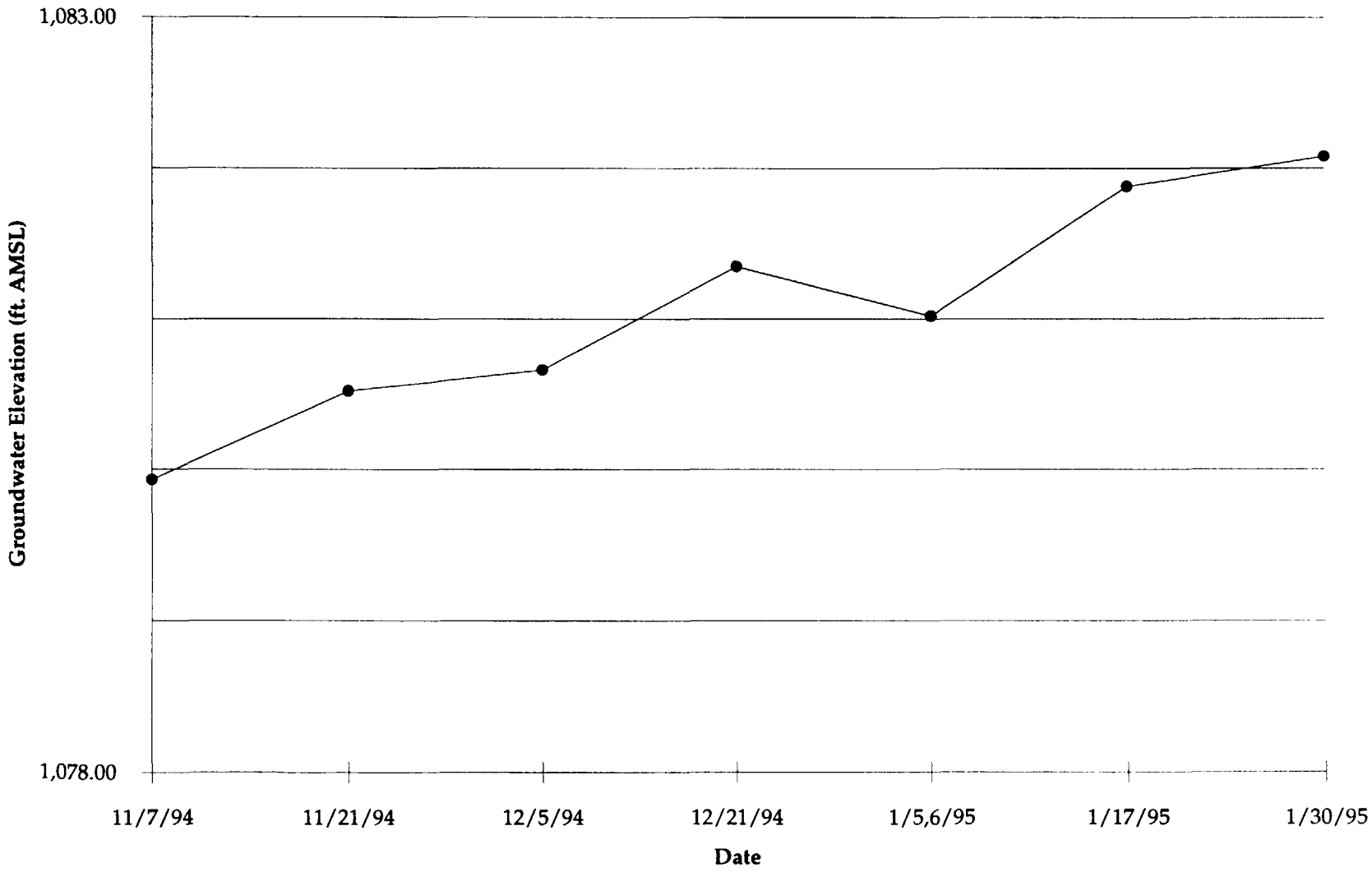
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-107
SUMMIT NATIONAL SUPERFUND SITE



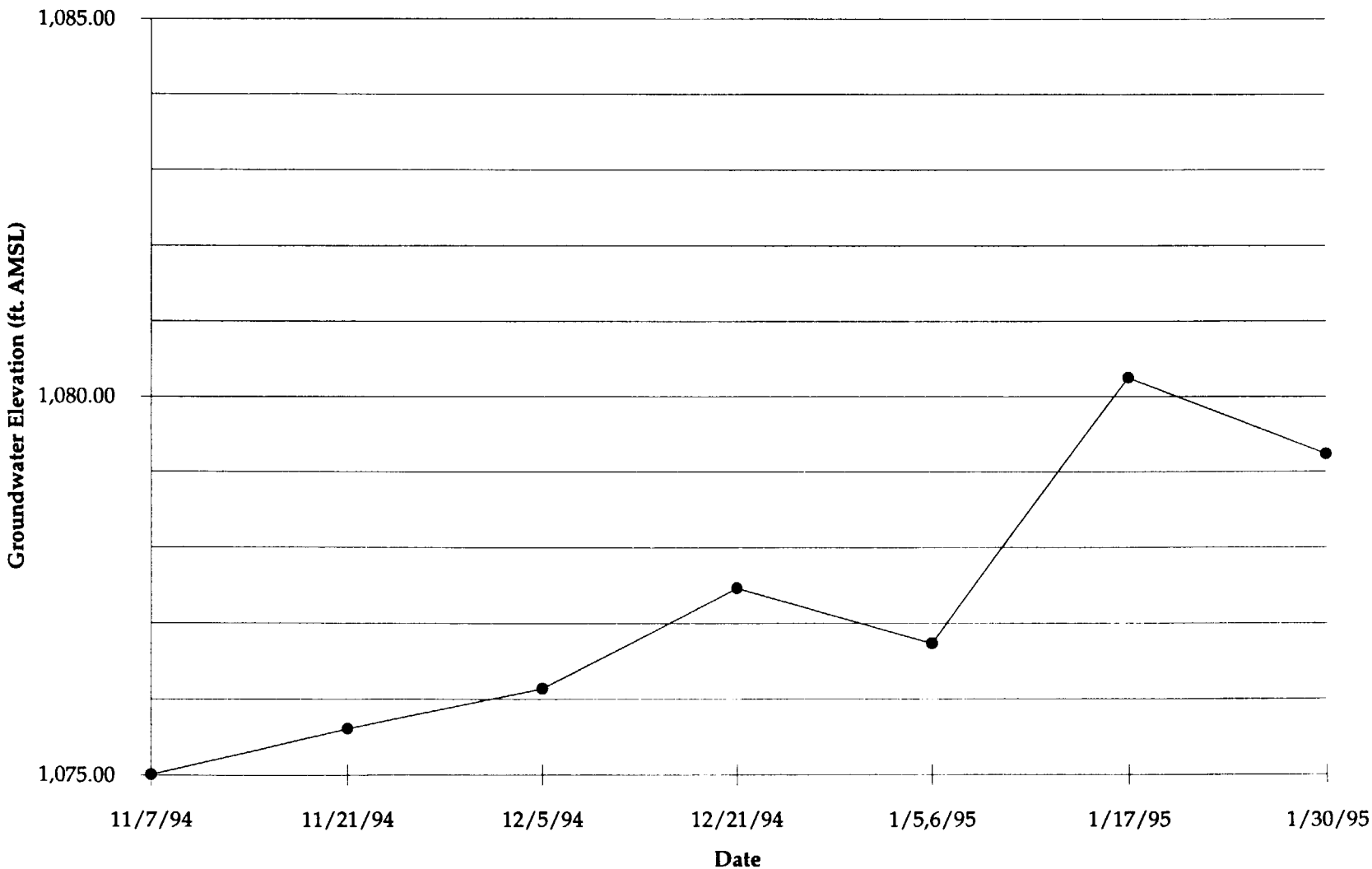
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-108
SUMMIT NATIONAL SUPERFUND SITE



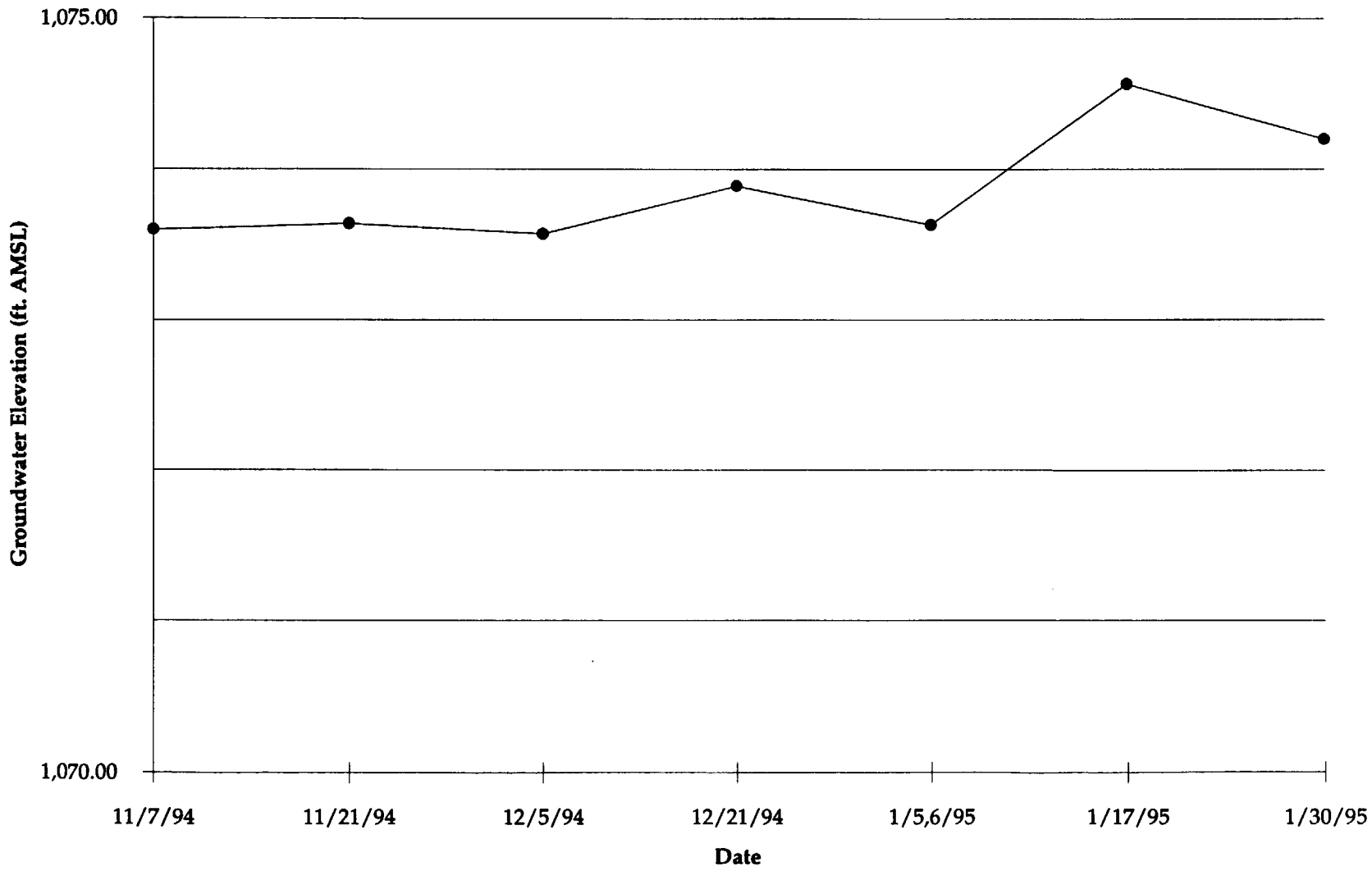
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-109
SUMMIT NATIONAL SUPERFUND SITE



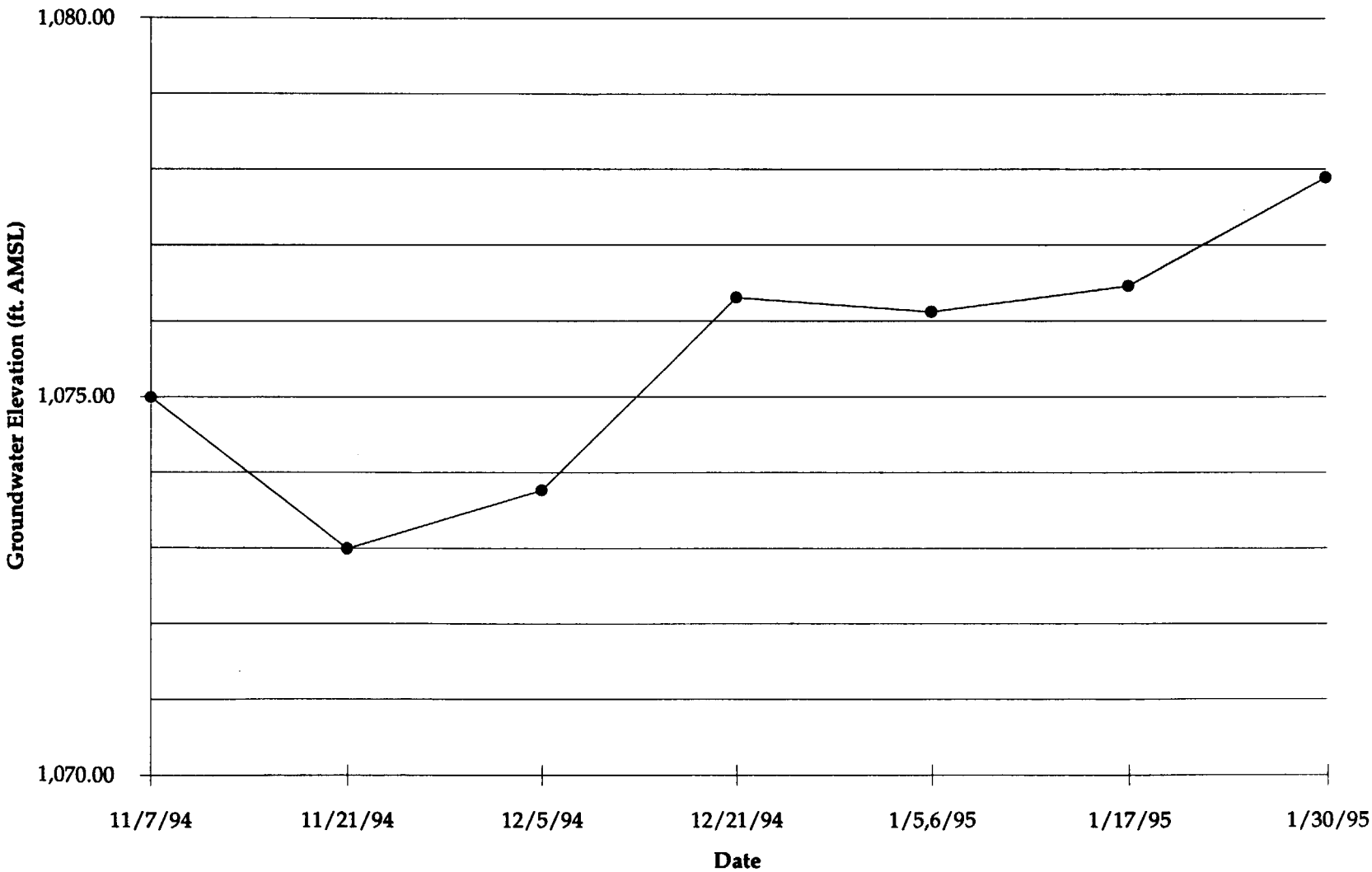
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-110
SUMMIT NATIONAL SUPERFUND SITE



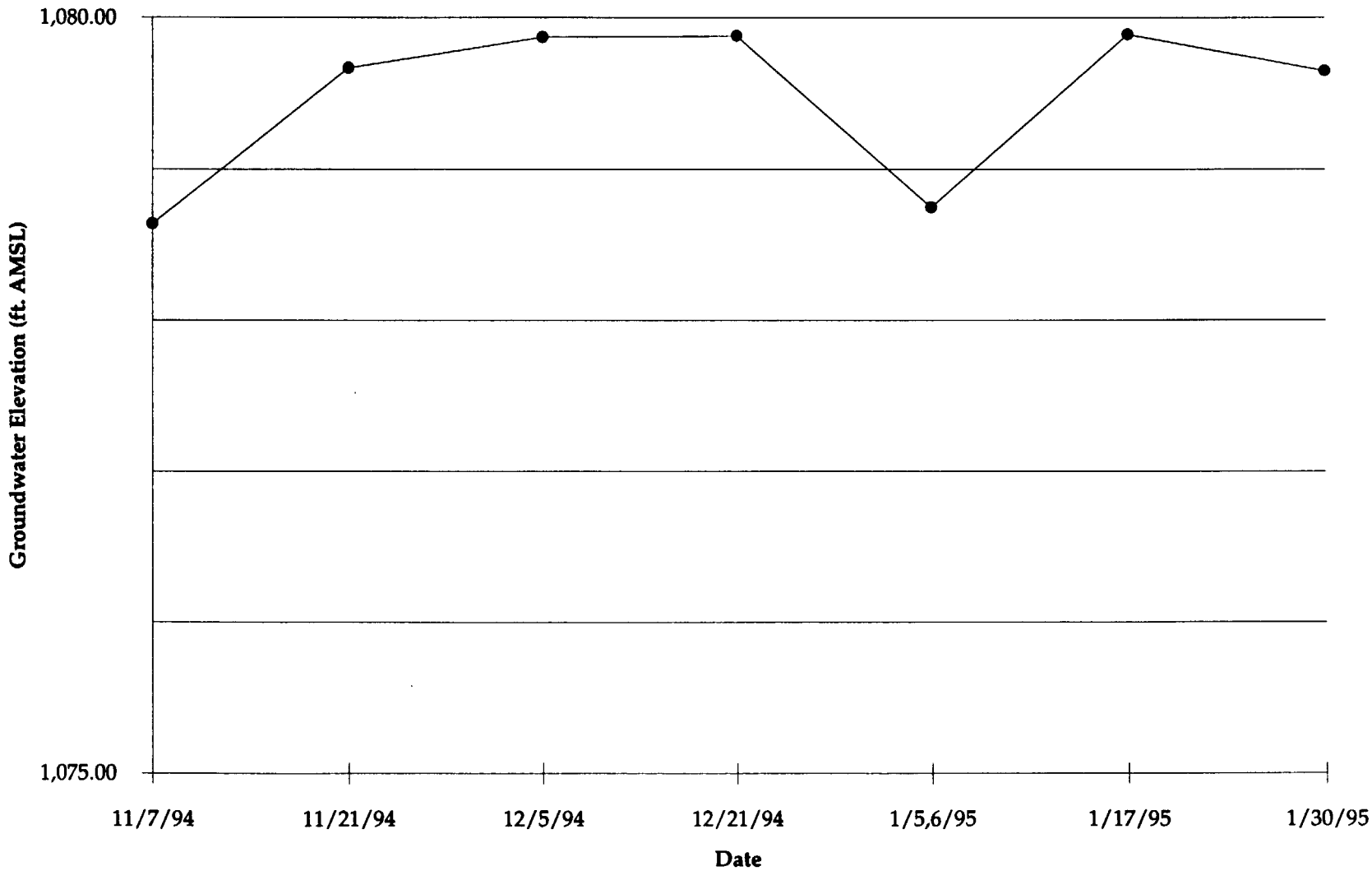
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-111
SUMMIT NATIONAL SUPERFUND SITE



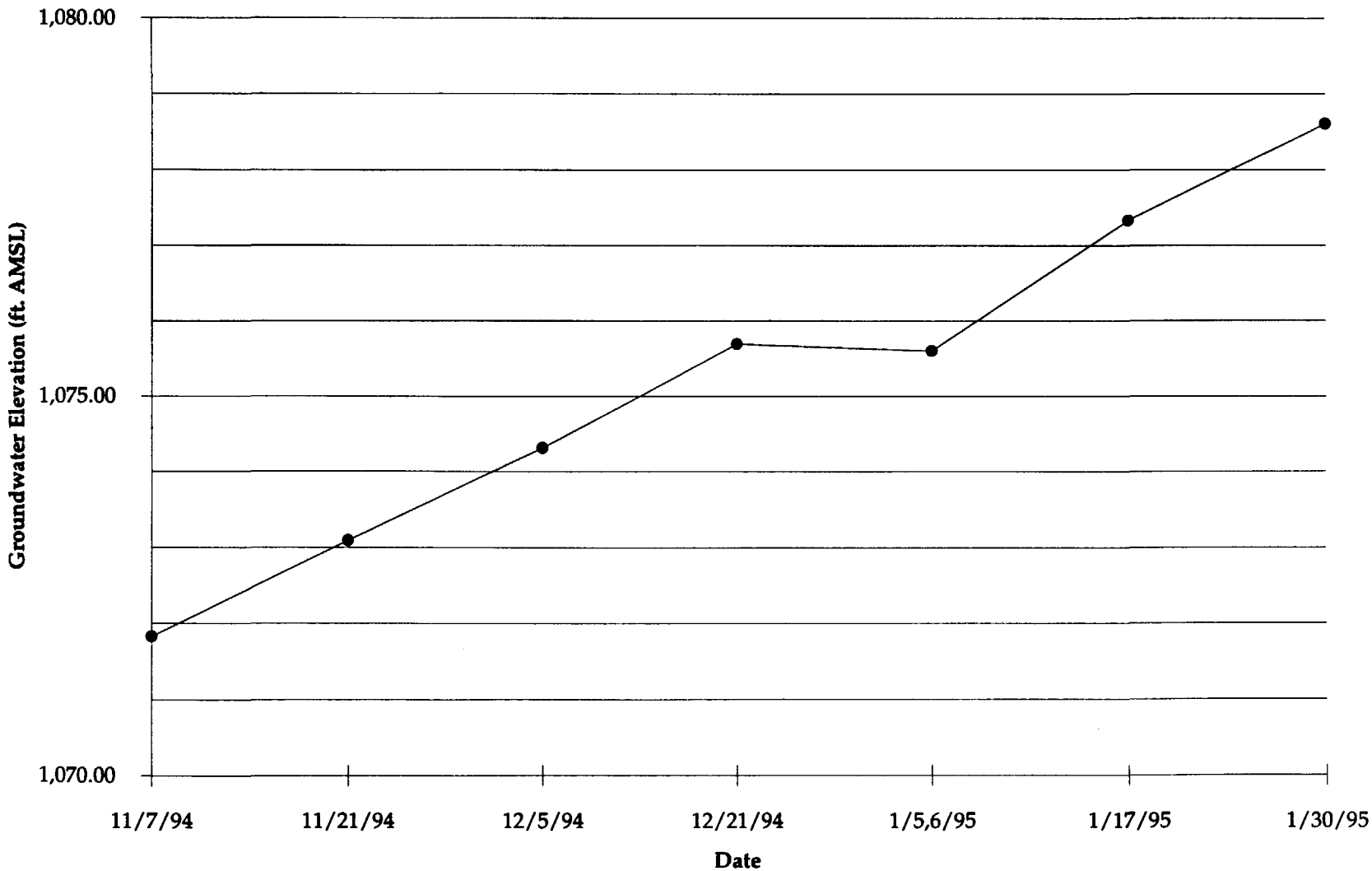
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-113
SUMMIT NATIONAL SUPERFUND SITE



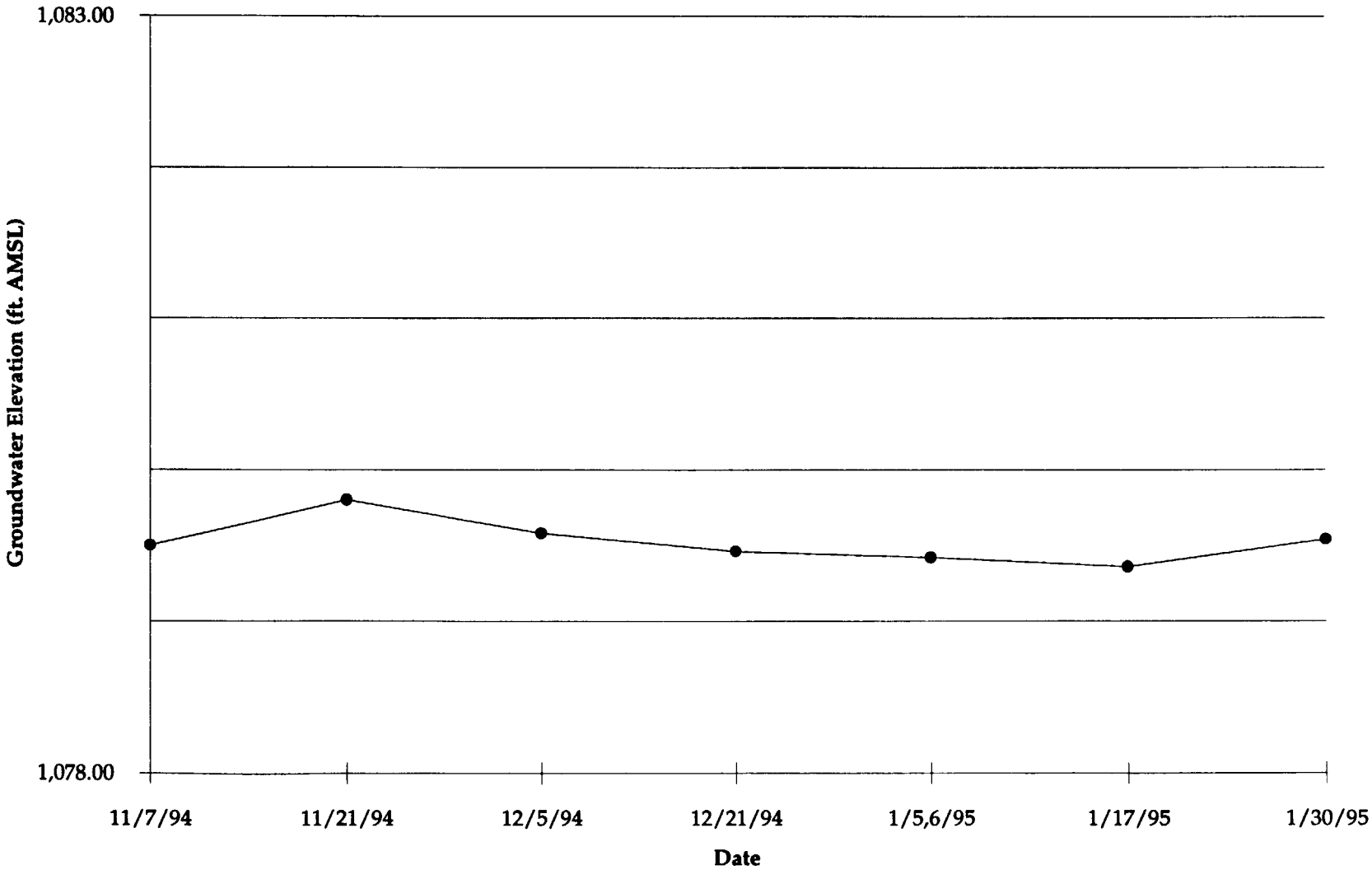
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-114
SUMMIT NATIONAL SUPERFUND SITE



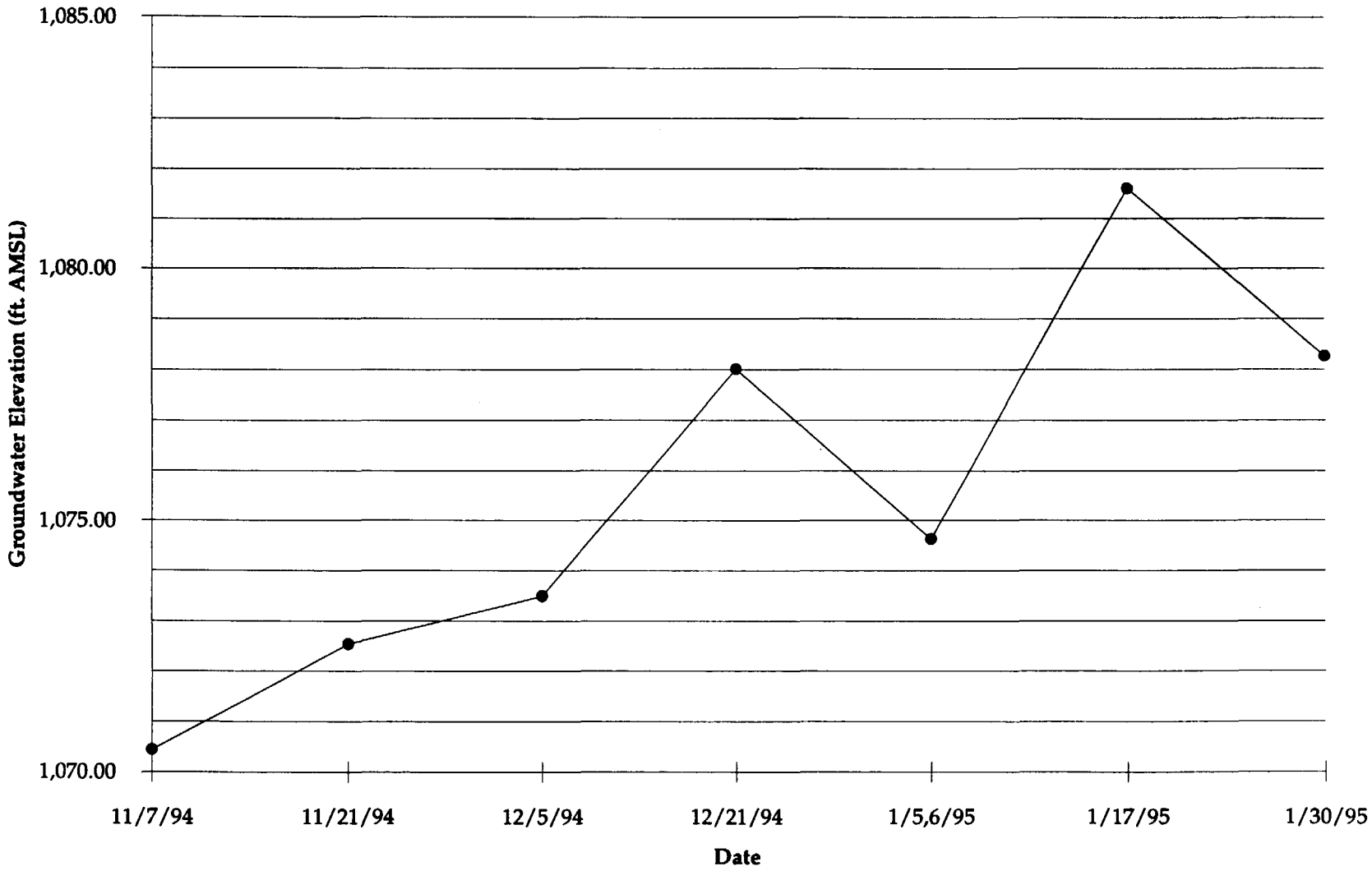
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-115
SUMMIT NATIONAL SUPERFUND SITE



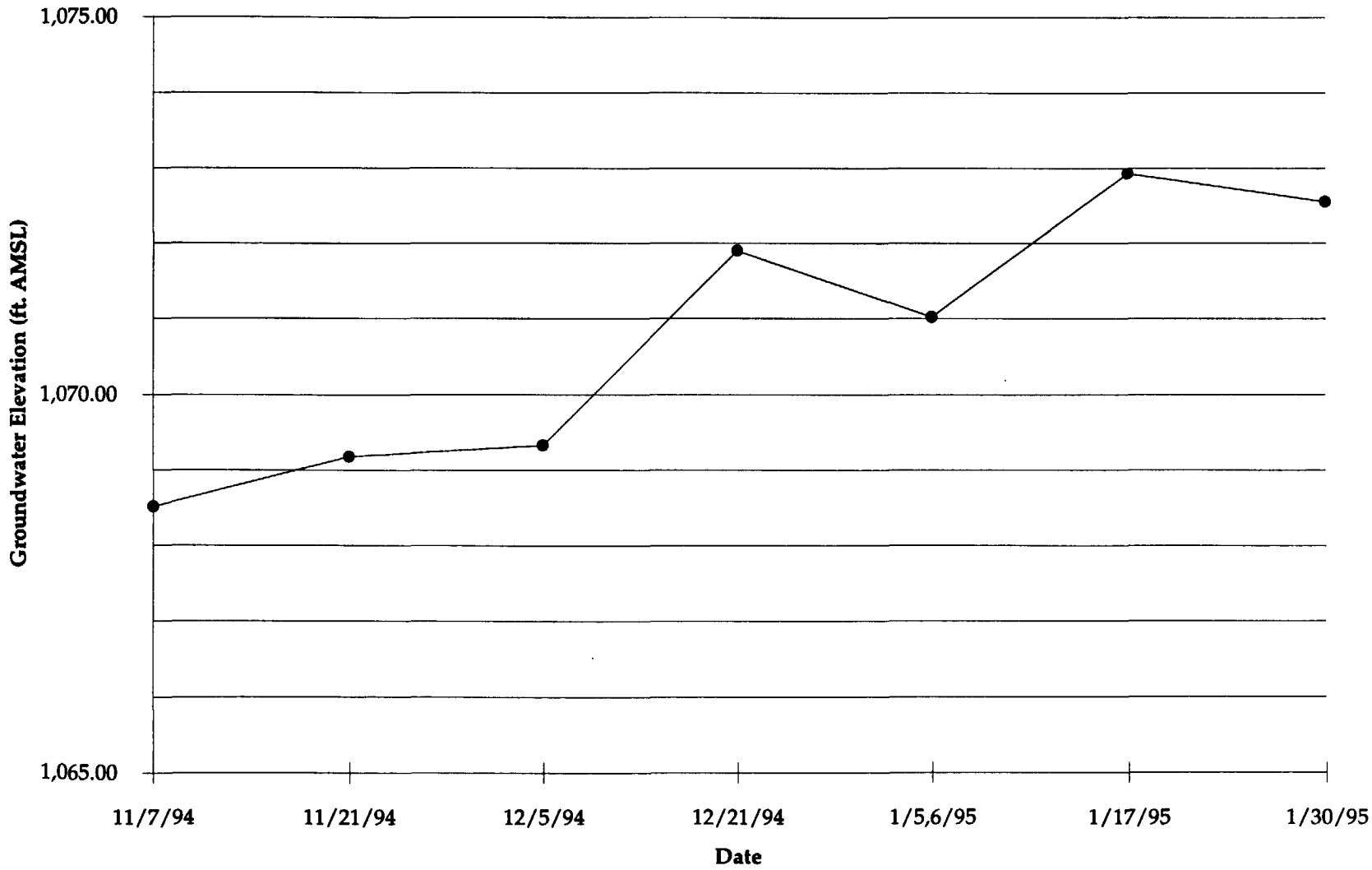
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-116
SUMMIT NATIONAL SUPERFUND SITE



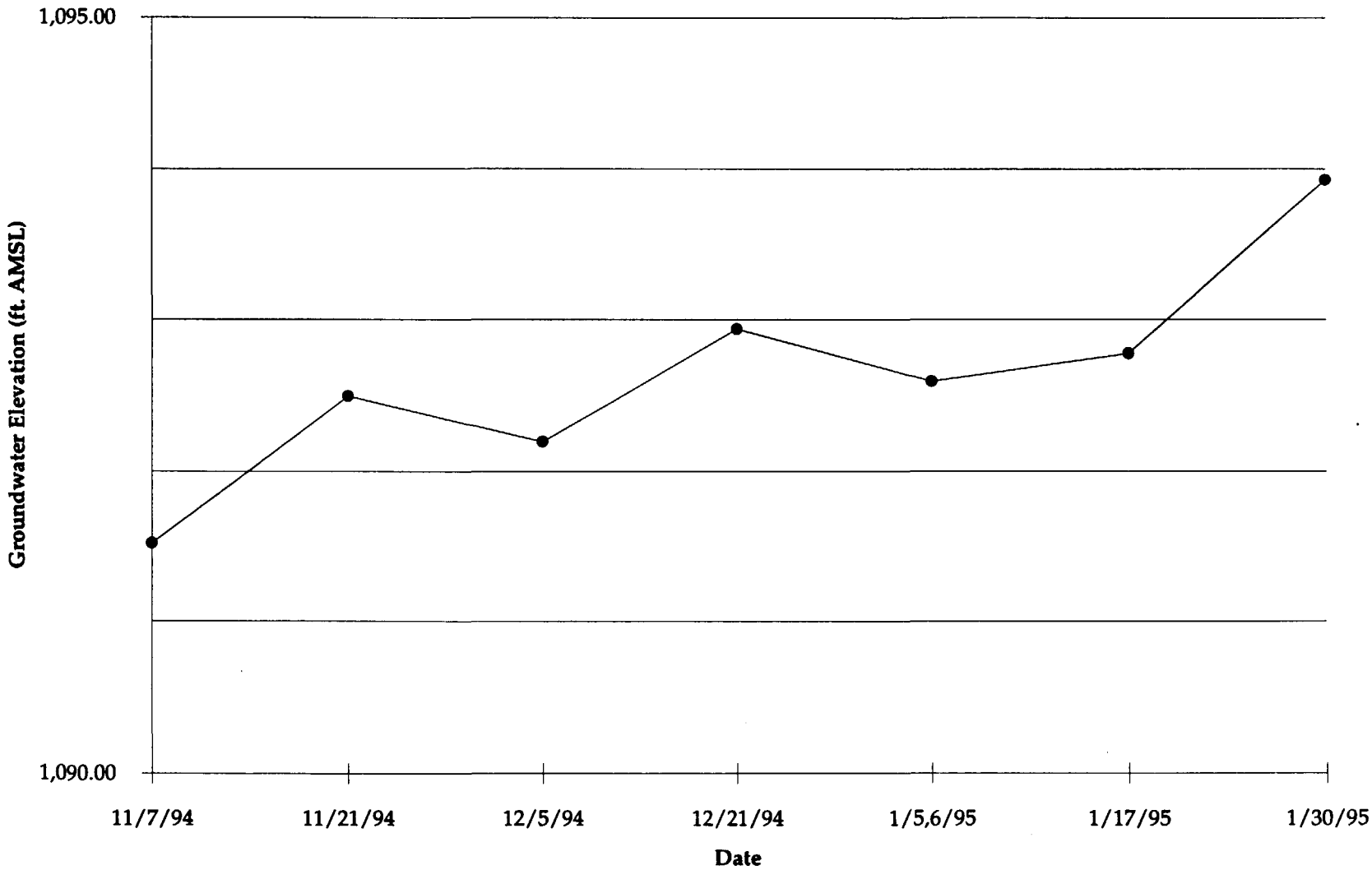
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-117
SUMMIT NATIONAL SUPERFUND SITE



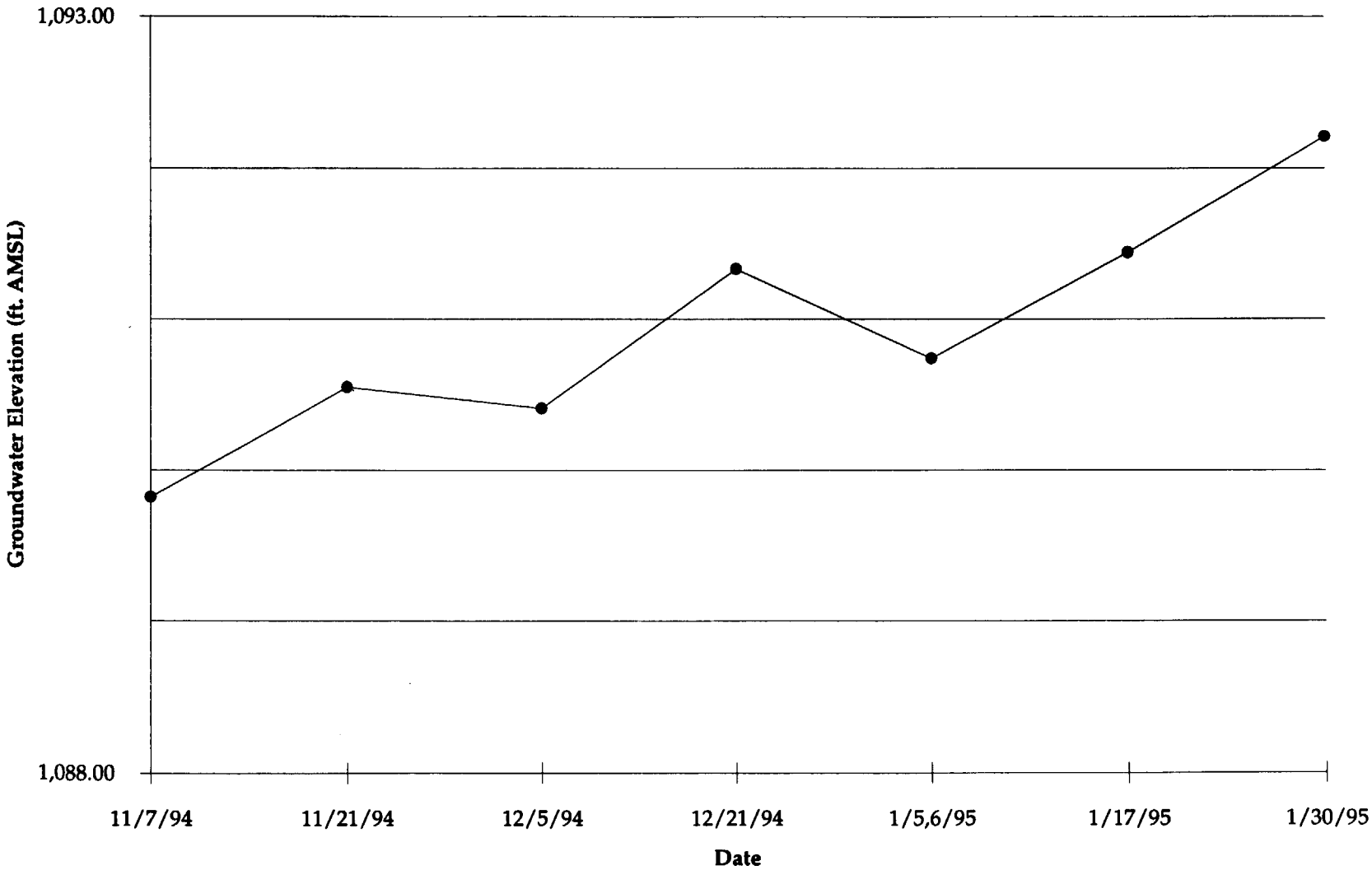
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : MW-118
SUMMIT NATIONAL SUPERFUND SITE



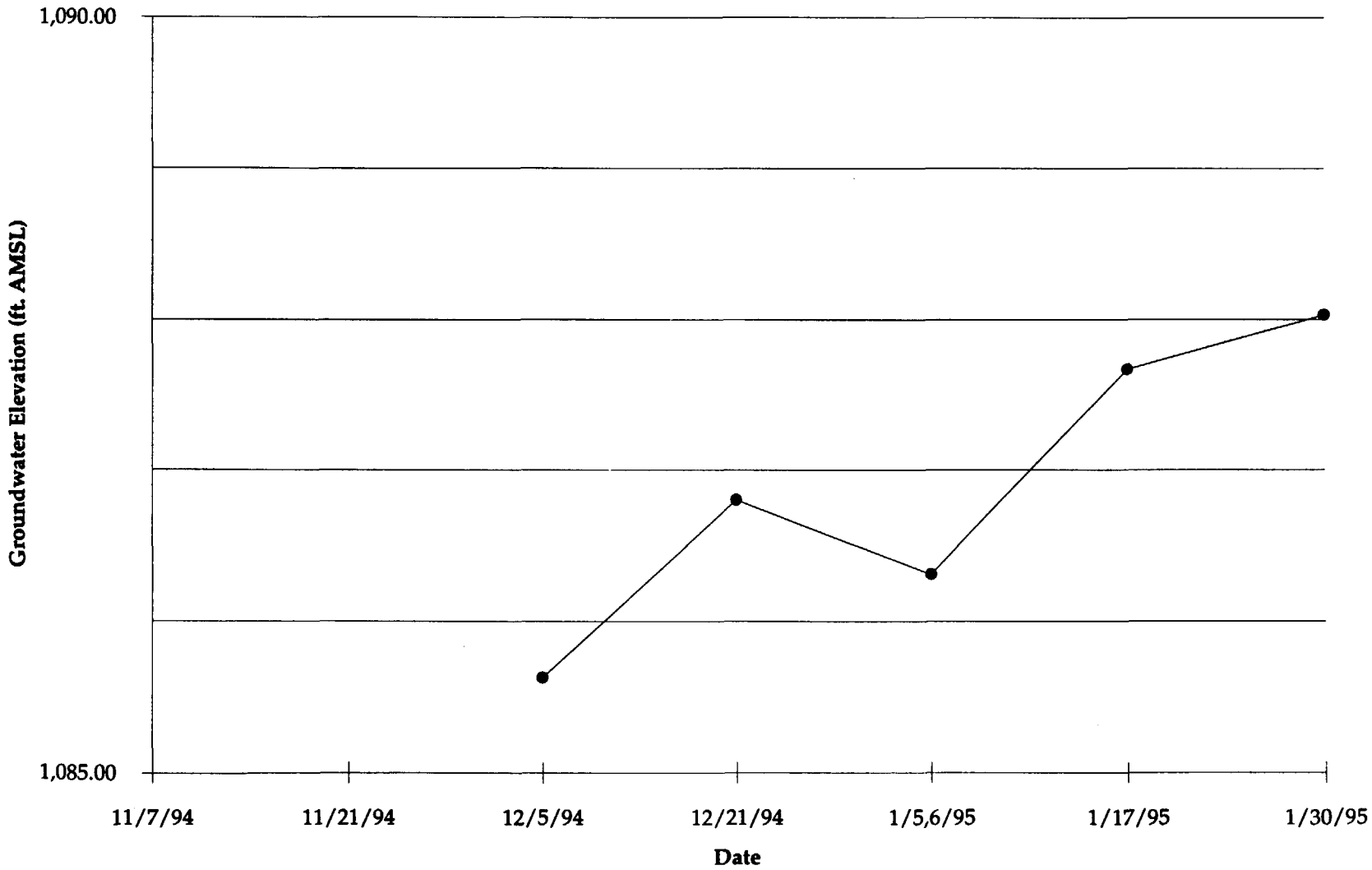
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : PZ-1
SUMMIT NATIONAL SUPERFUND SITE



GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : PZ-101
SUMMIT NATIONAL SUPERFUND SITE

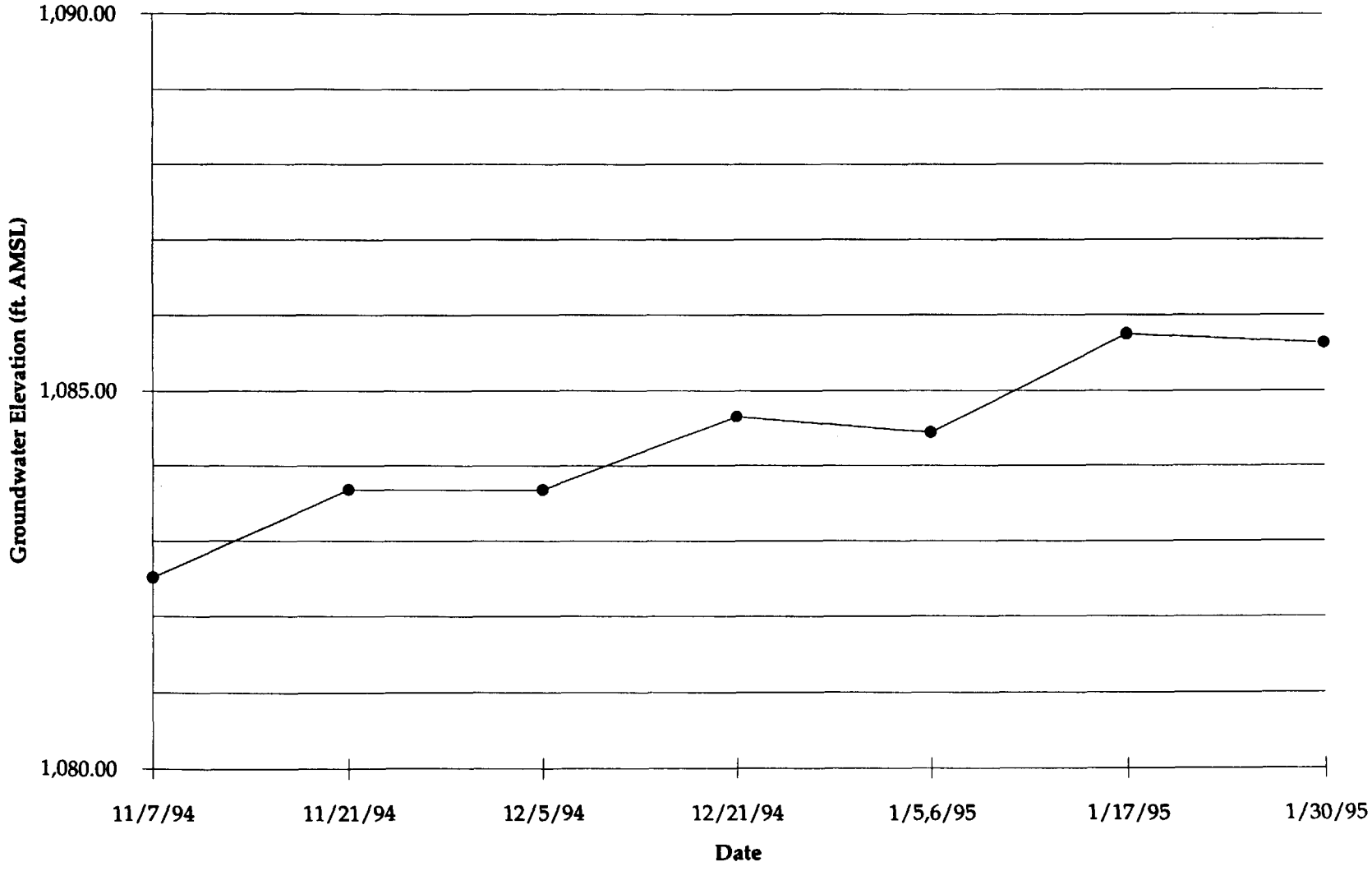


GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : PZ-102R
SUMMIT NATIONAL SUPERFUND SITE

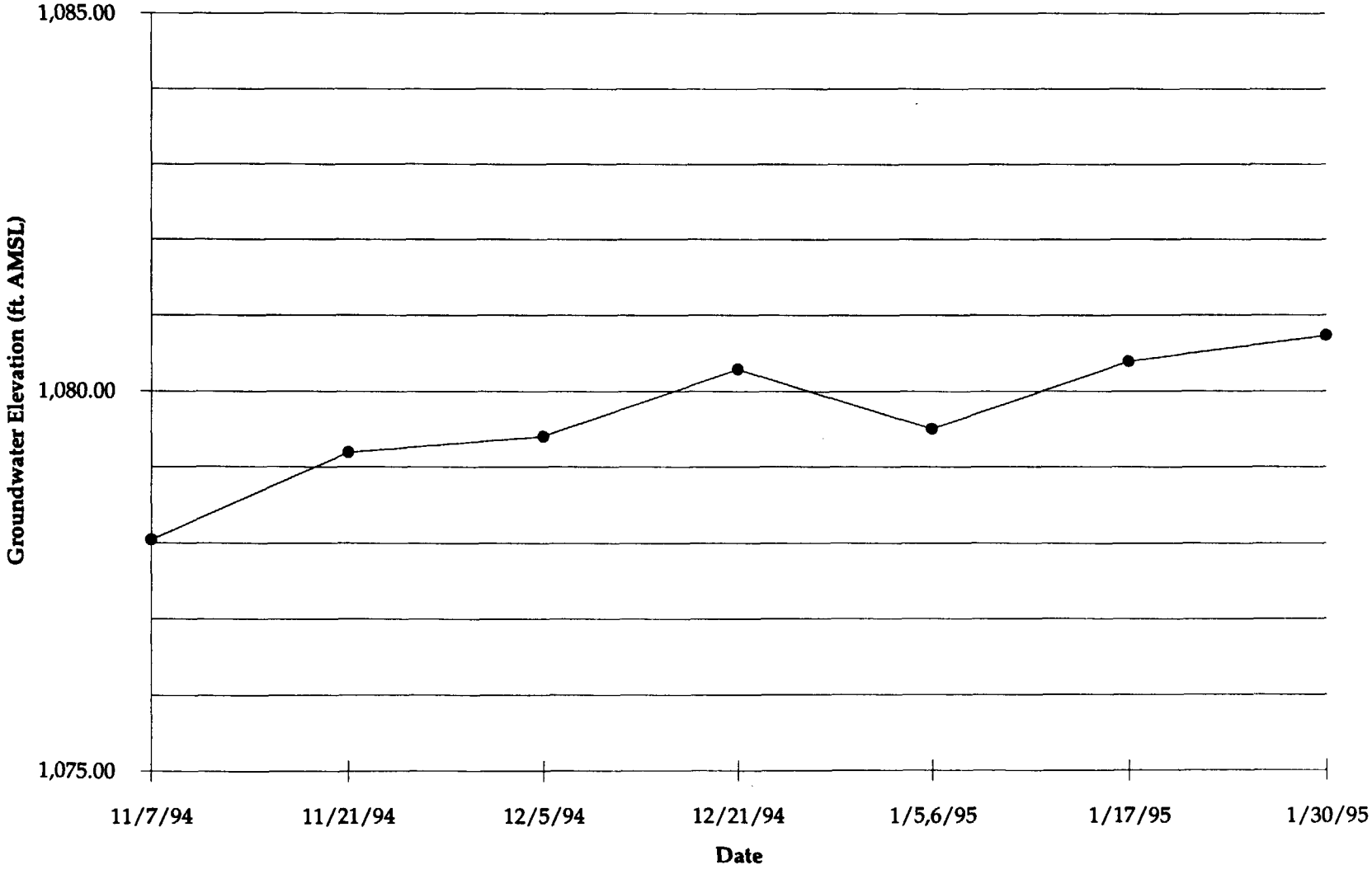


Note: No data available for 11/7/94 and 11/21/94

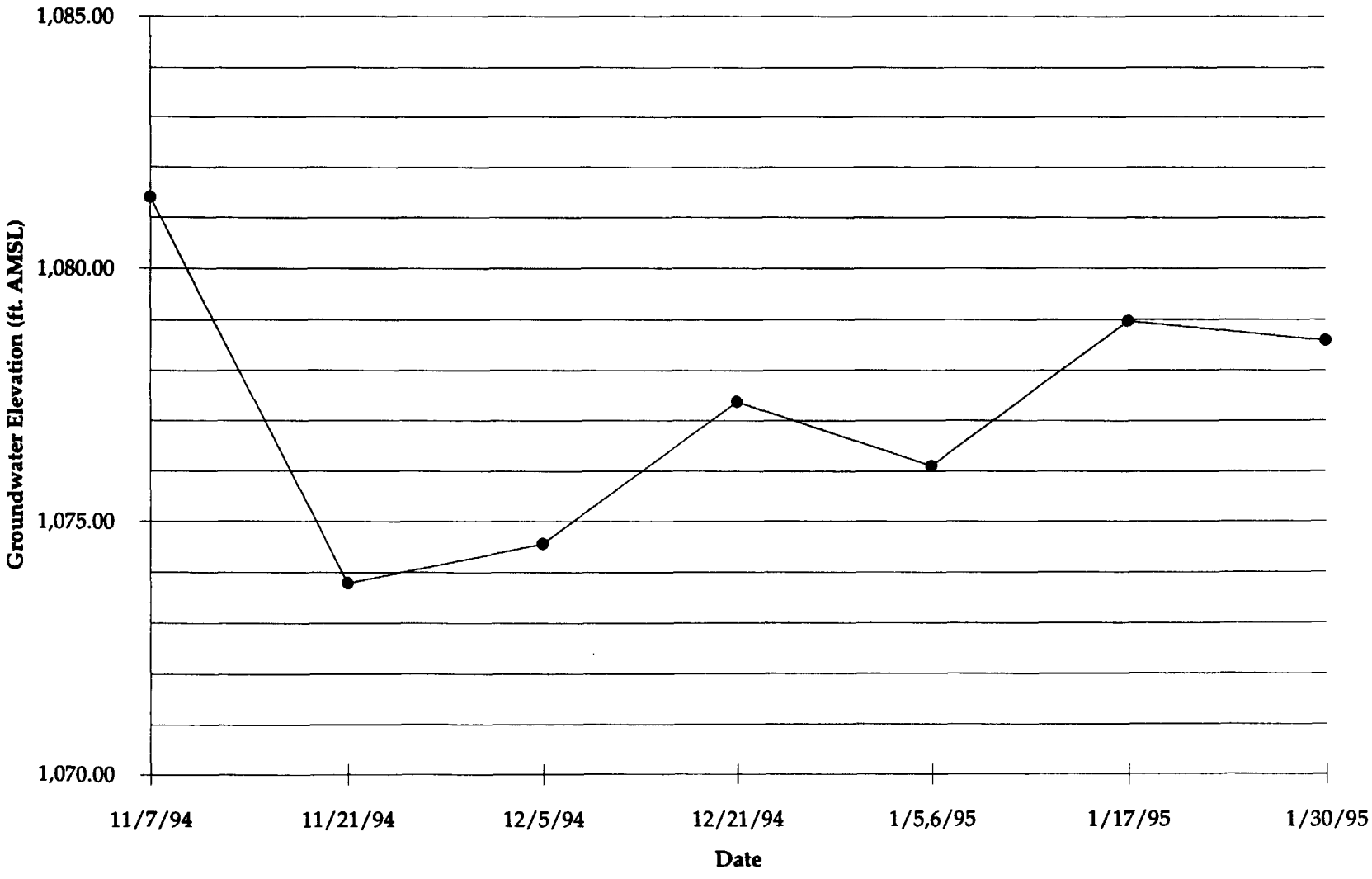
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : PZ-103
SUMMIT NATIONAL SUPERFUND SITE



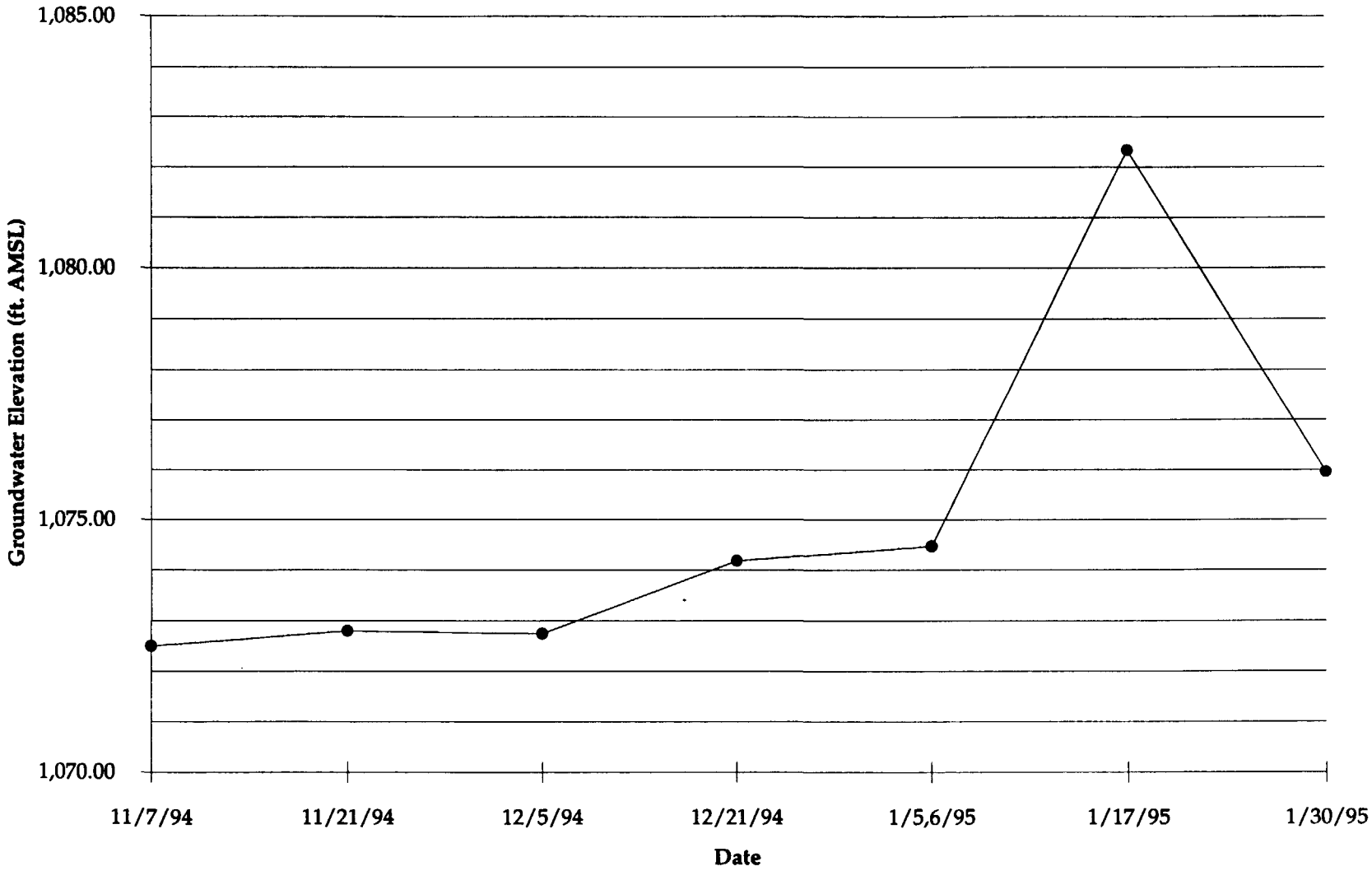
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : PZ-104
SUMMIT NATIONAL SUPERFUND SITE



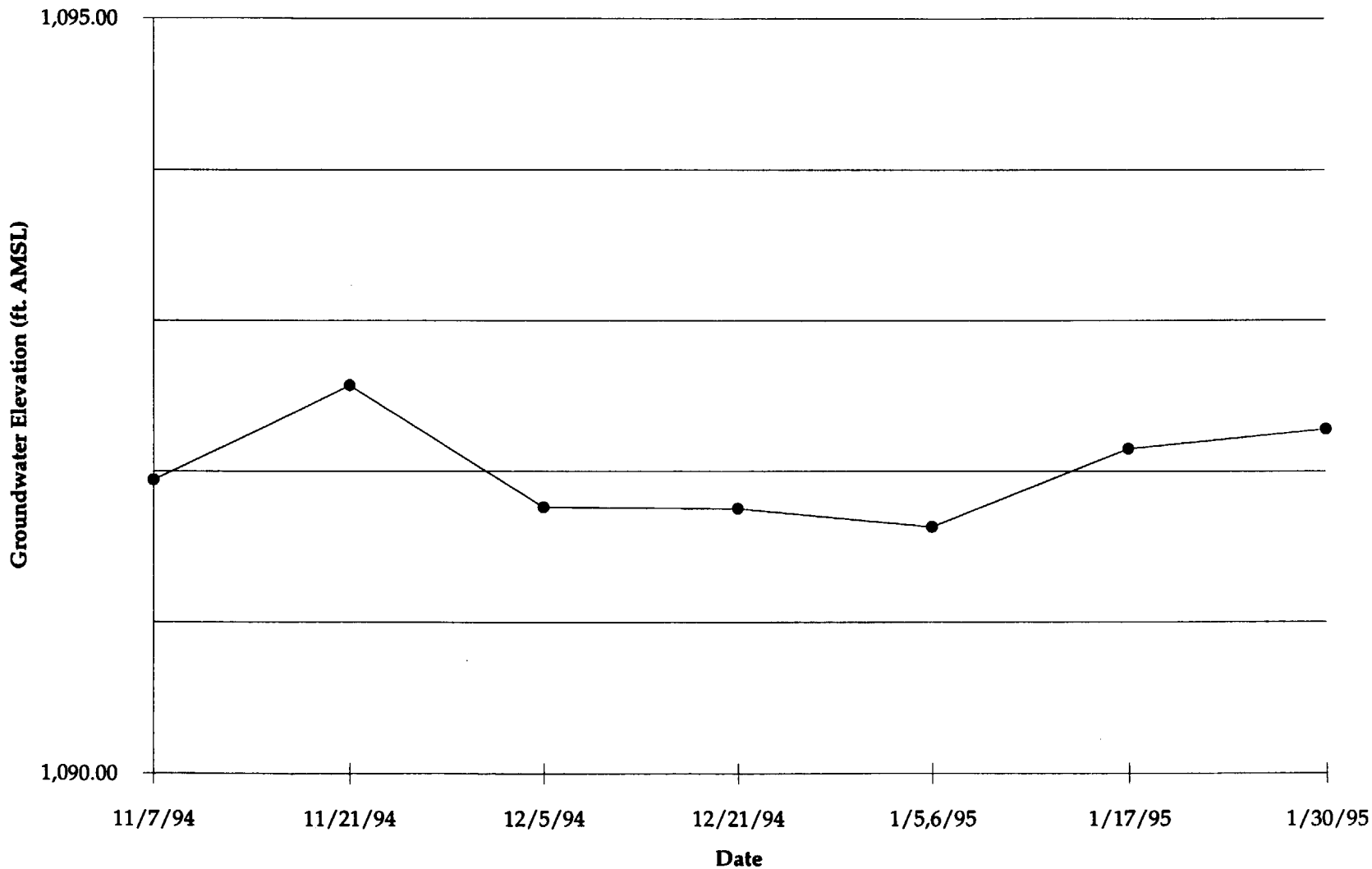
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : PZ-105
SUMMIT NATIONAL SUPERFUND SITE



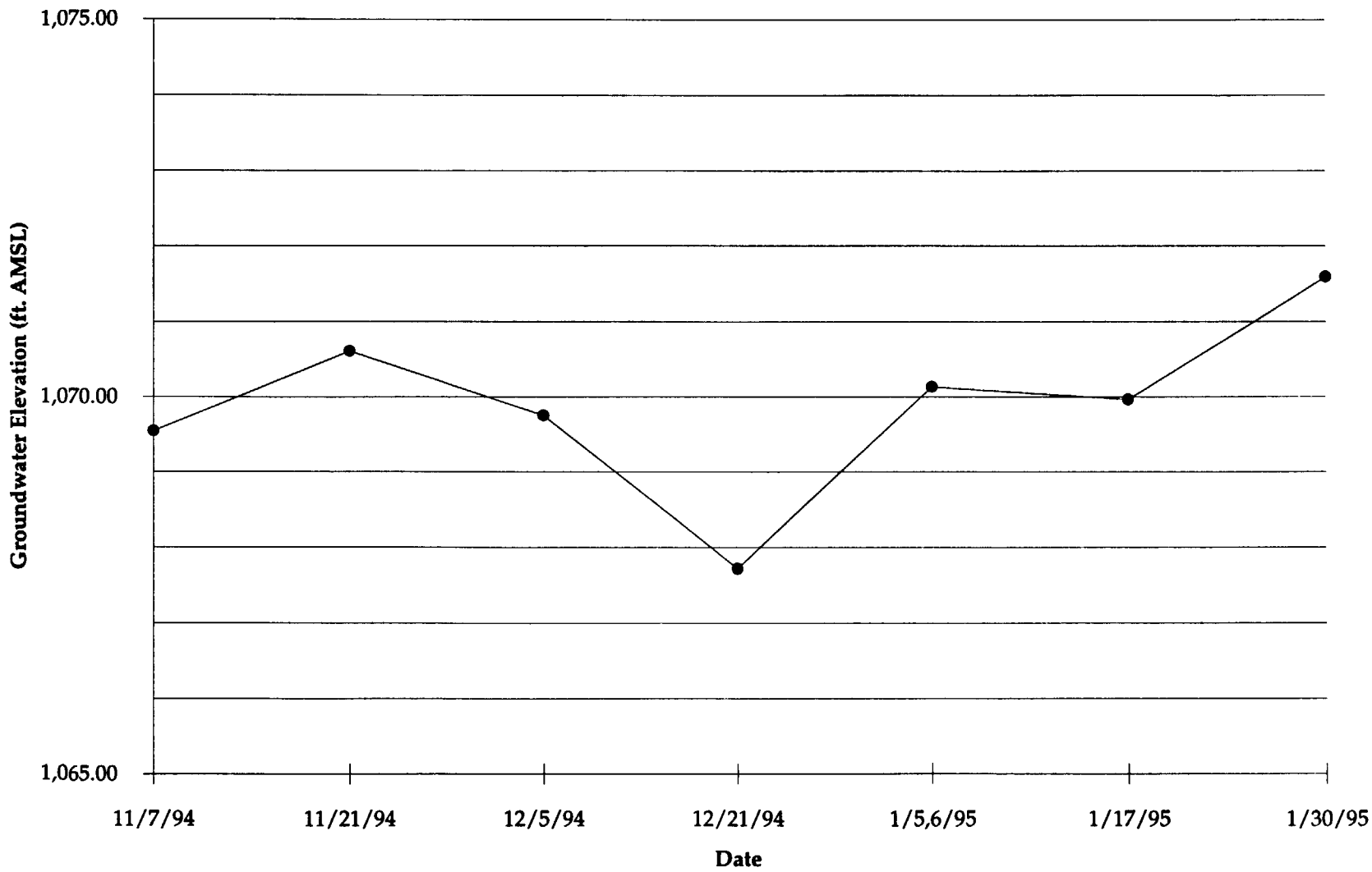
GROUNDWATER HYDROGRAPH
WATER TABLE UNIT : PZ-106
SUMMIT NATIONAL SUPERFUND SITE



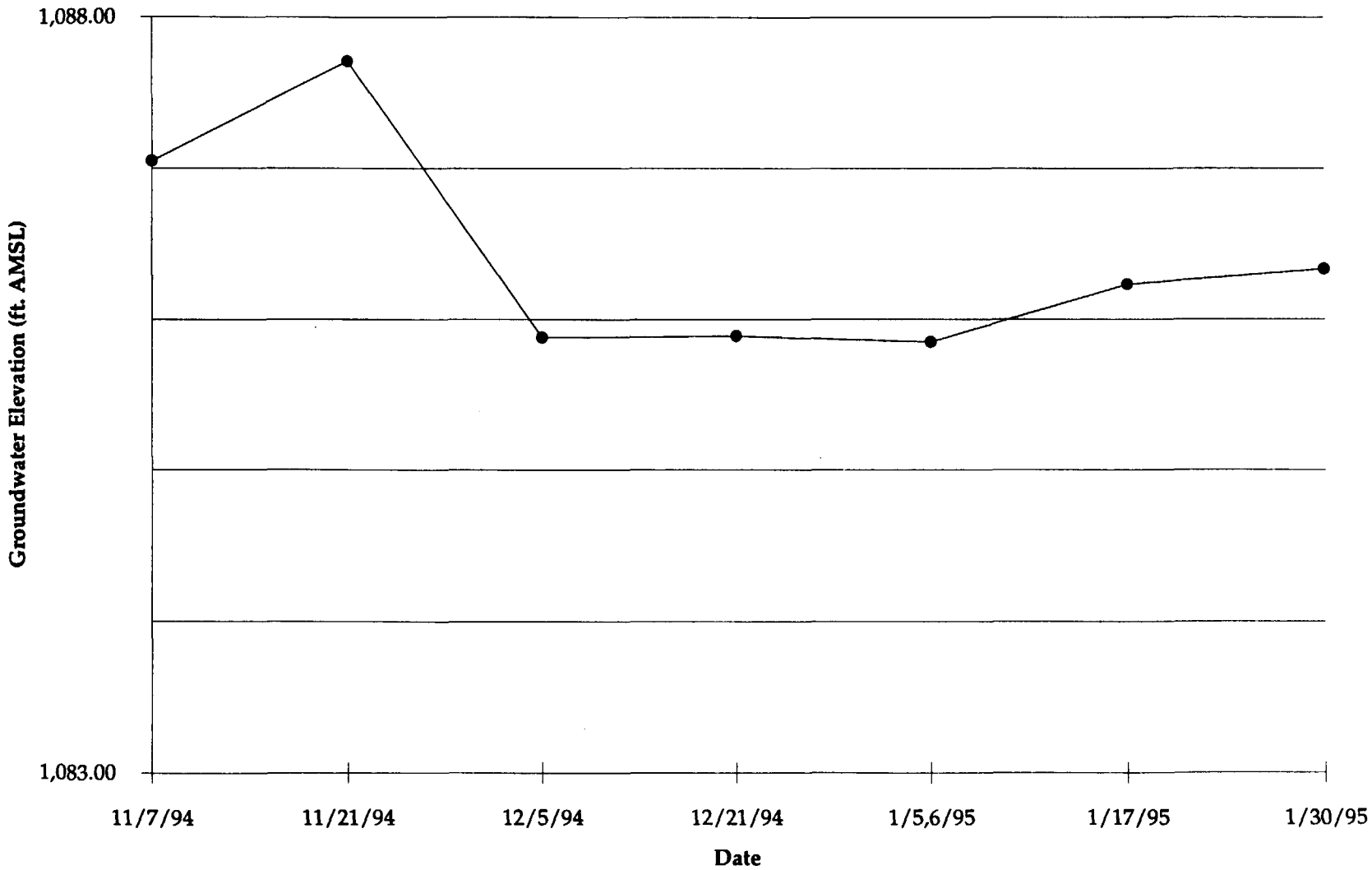
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : MW-201
SUMMIT NATIONAL SUPERFUND SITE



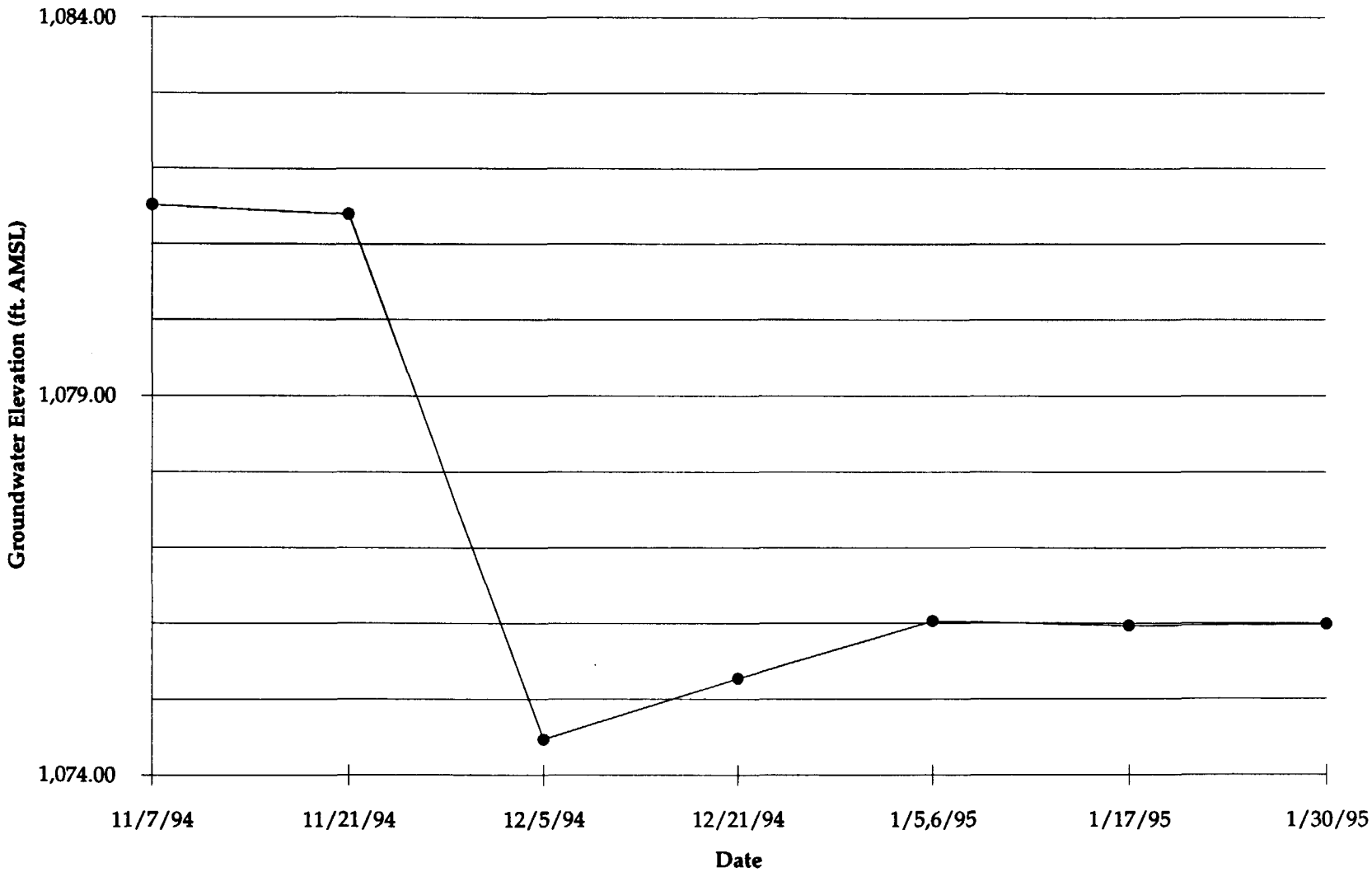
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : MW-202
SUMMIT NATIONAL SUPERFUND SITE



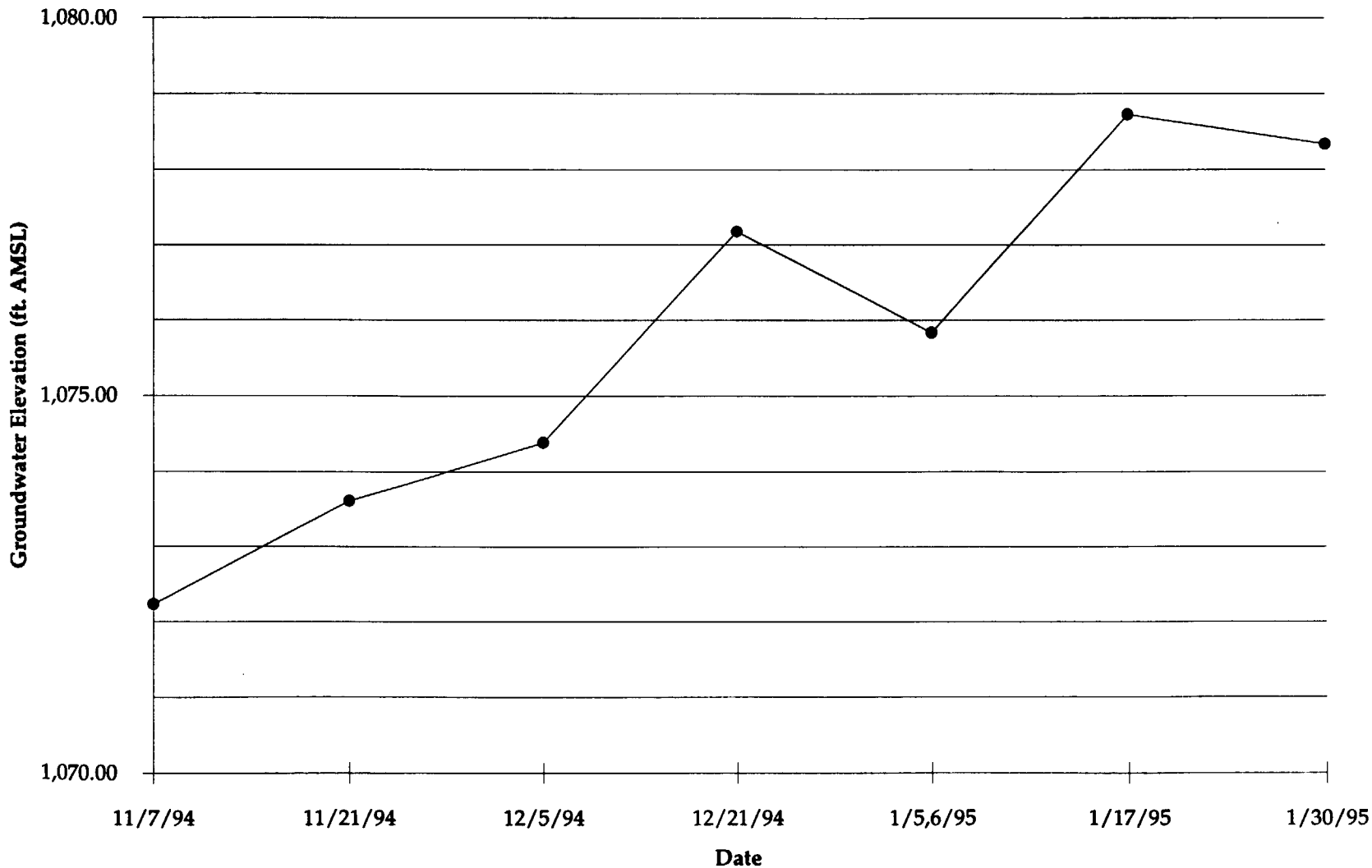
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : MW-203
SUMMIT NATIONAL SUPERFUND SITE



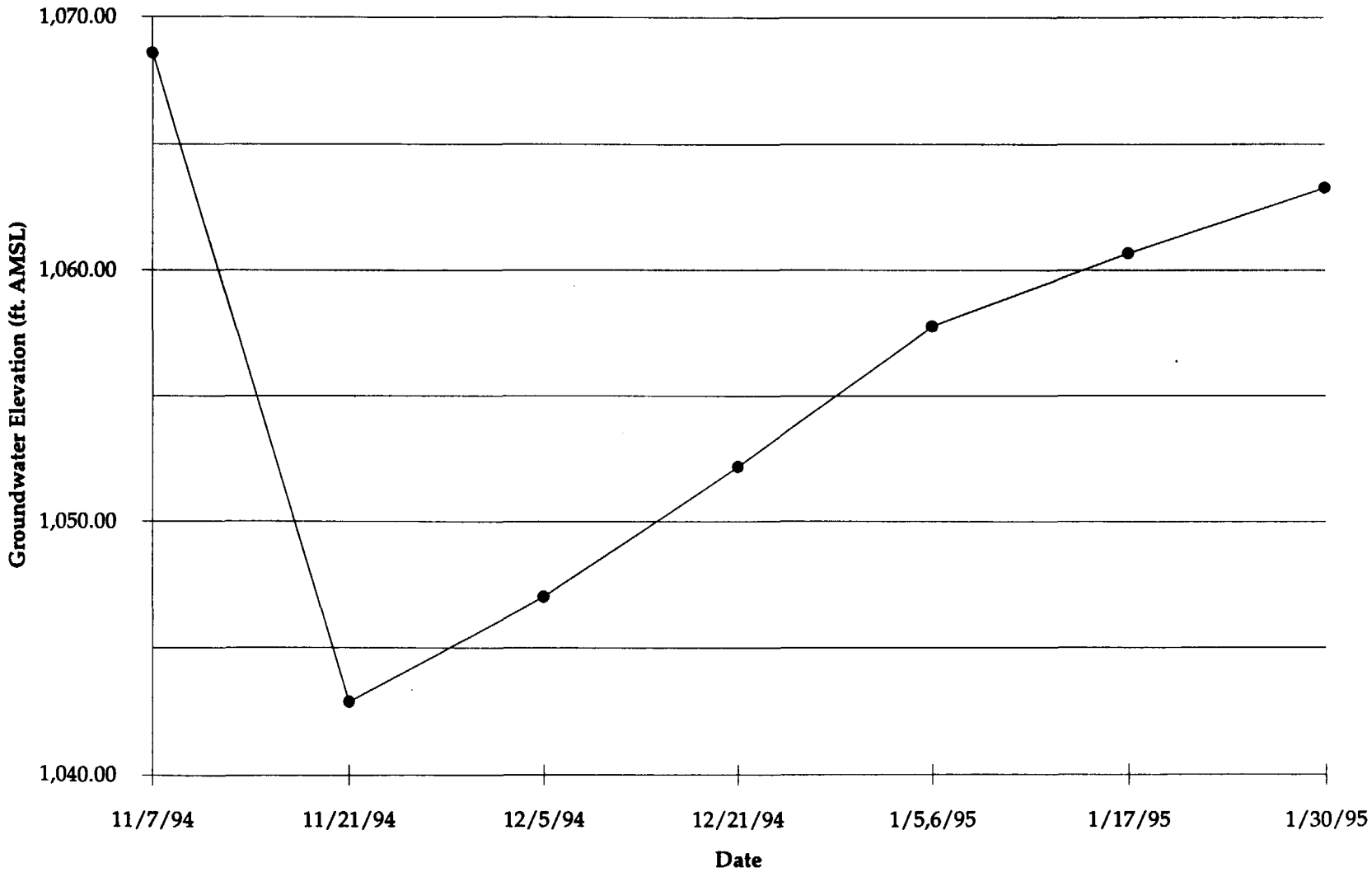
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : MW-204
SUMMIT NATIONAL SUPERFUND SITE



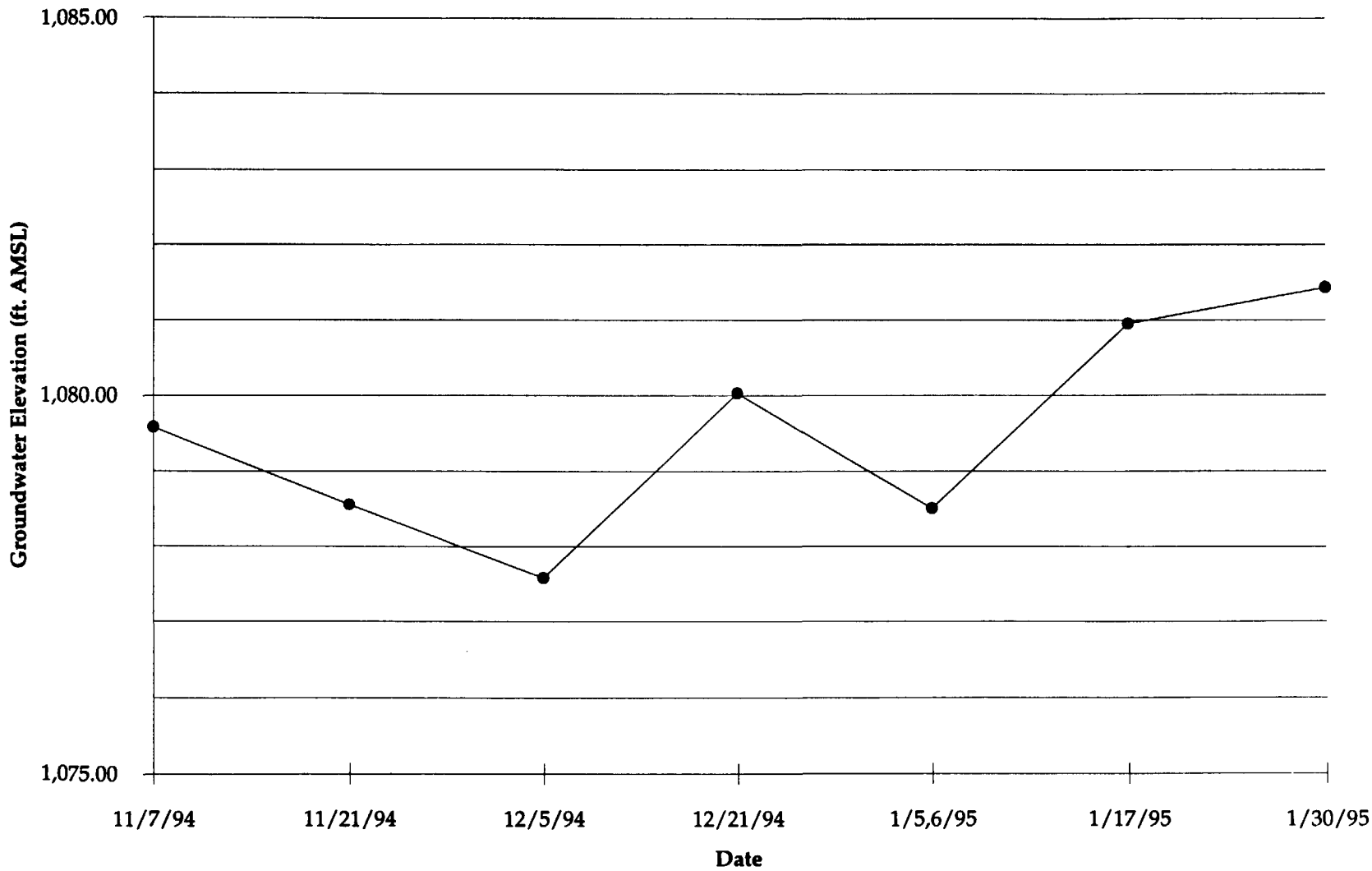
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : MW-205
SUMMIT NATIONAL SUPERFUND SITE



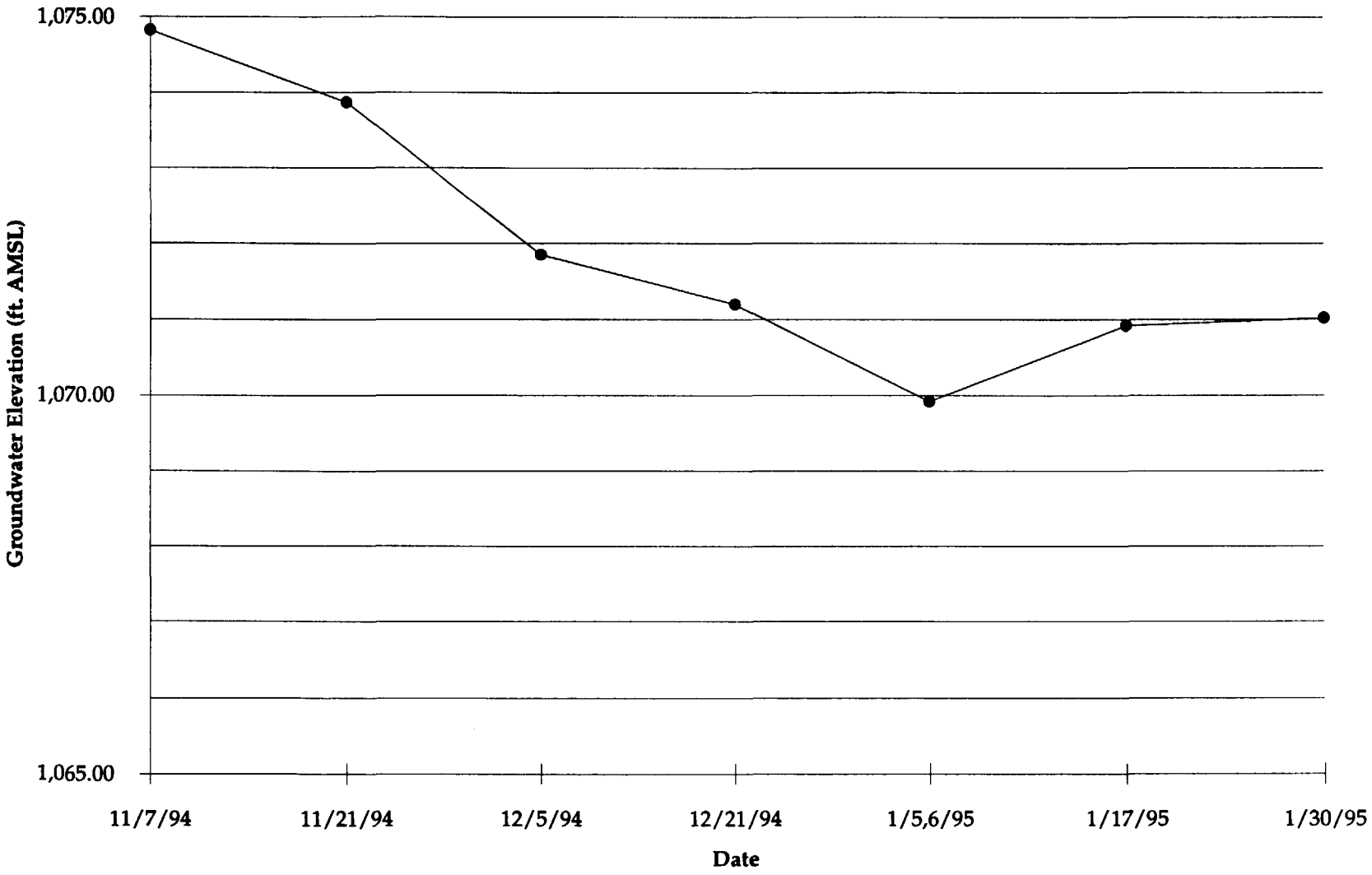
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : MW-206
SUMMIT NATIONAL SUPERFUND SITE



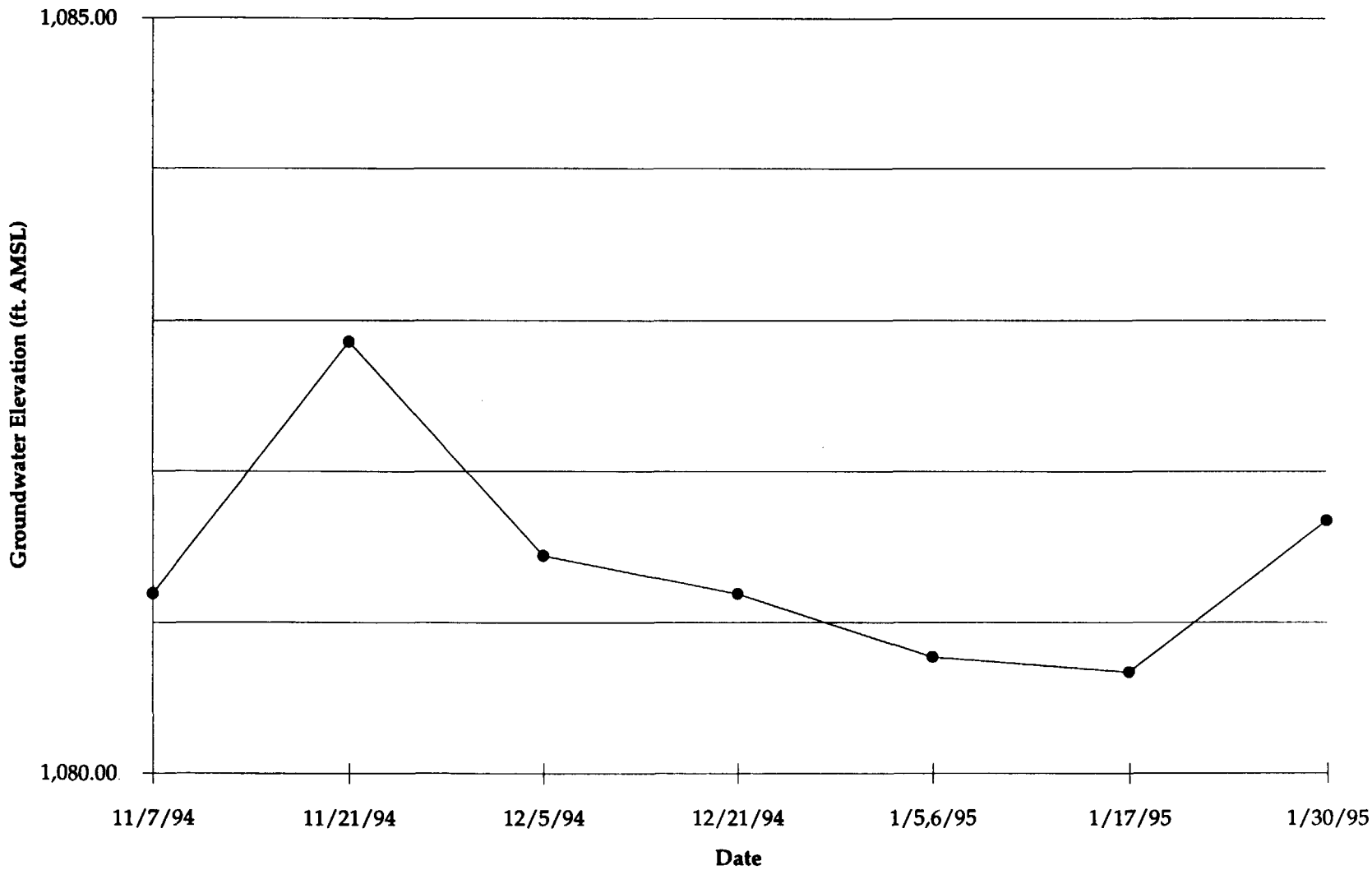
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : MW-207
SUMMIT NATIONAL SUPERFUND SITE



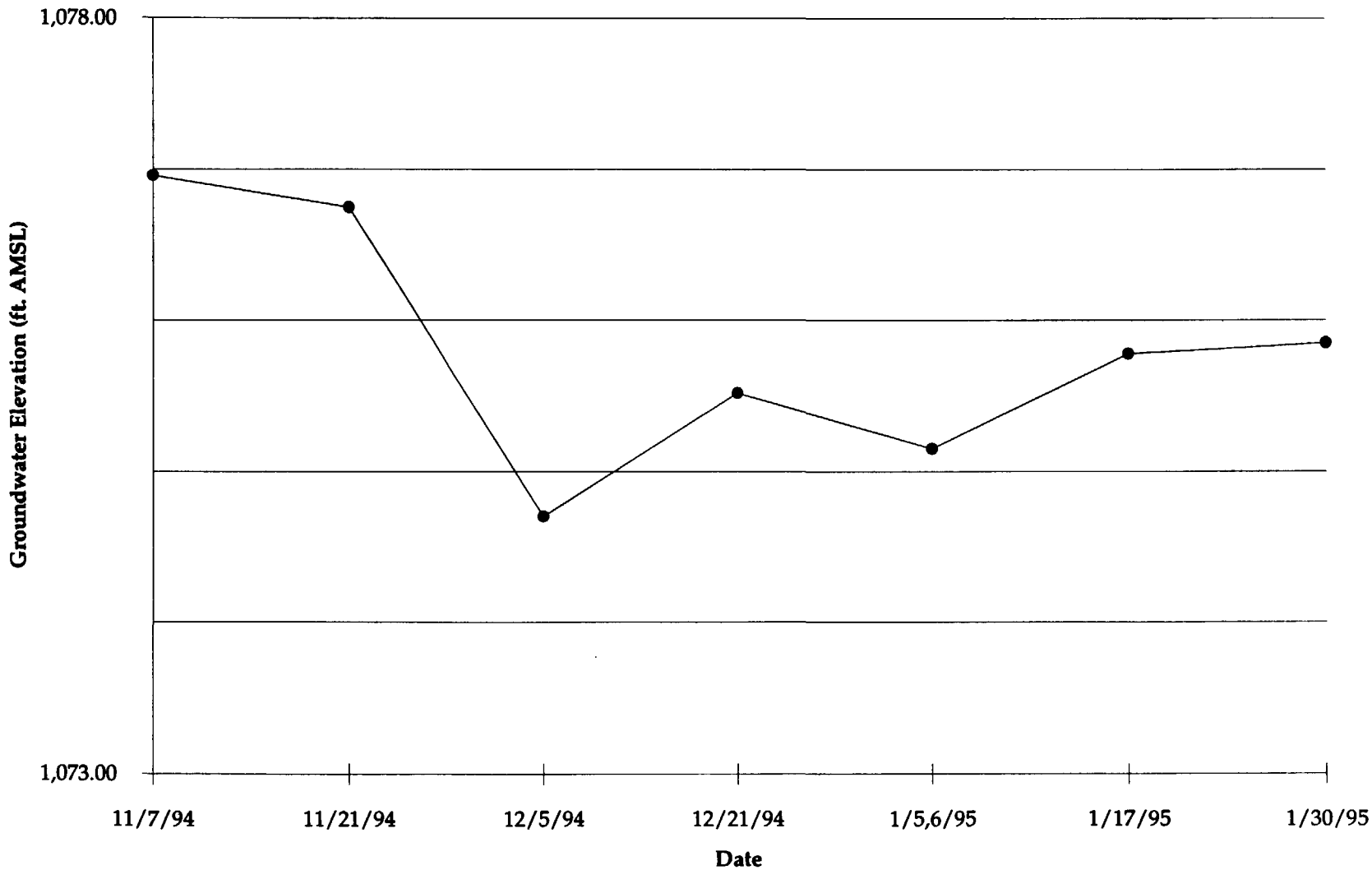
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : MW-209
SUMMIT NATIONAL SUPERFUND SITE



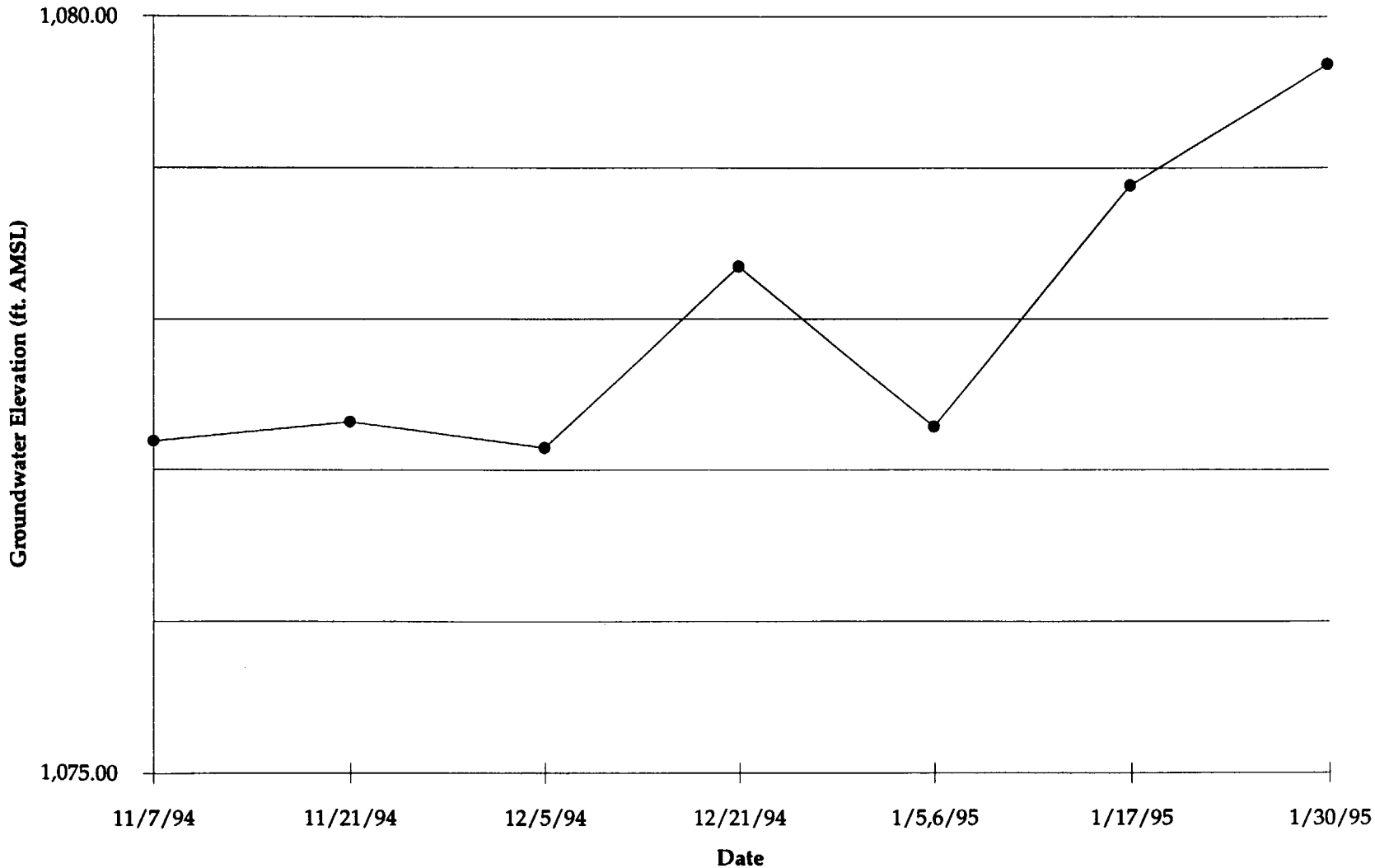
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : MW-219
SUMMIT NATIONAL SUPERFUND SITE



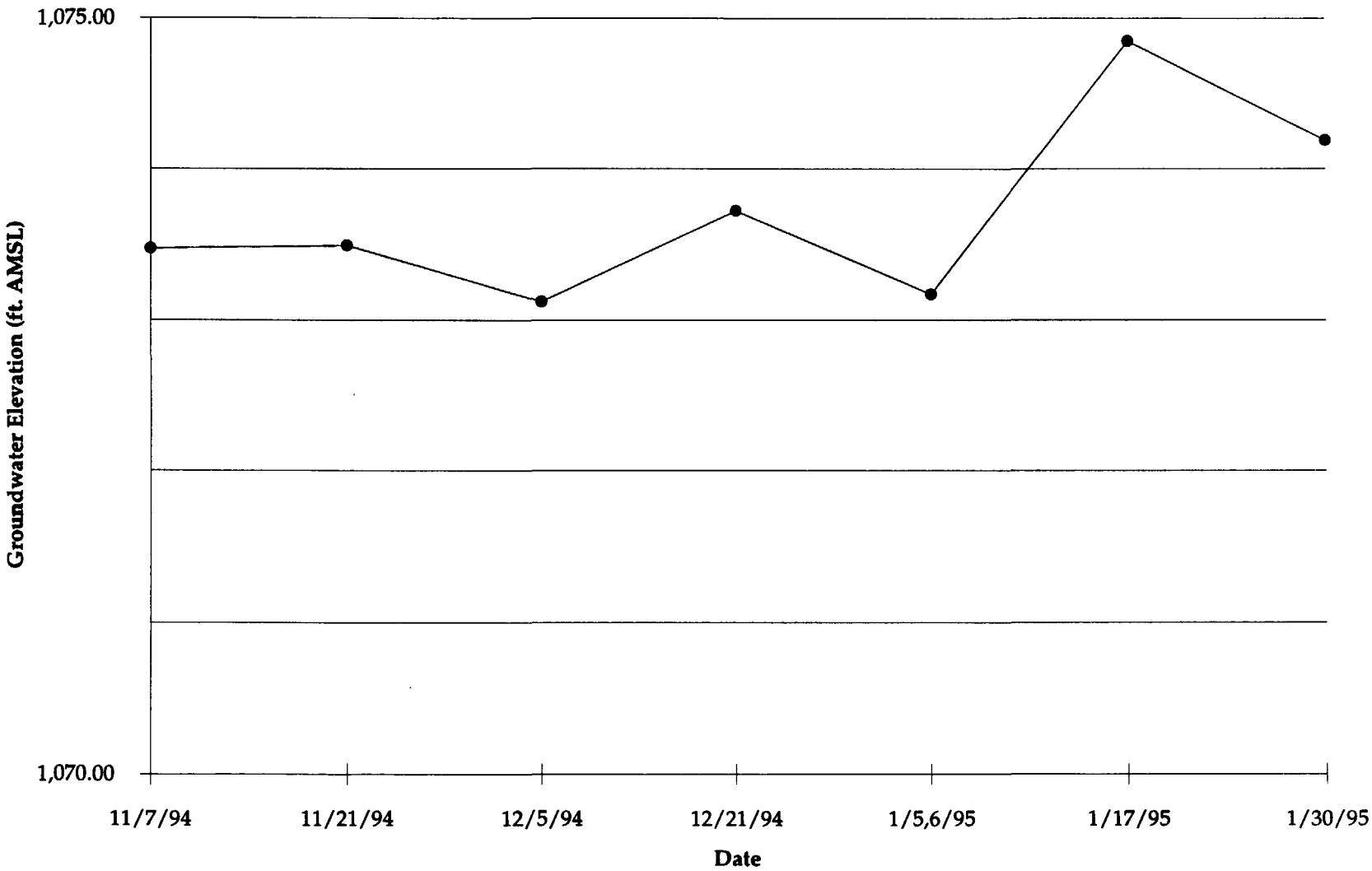
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : PZ-201
SUMMIT NATIONAL SUPERFUND SITE



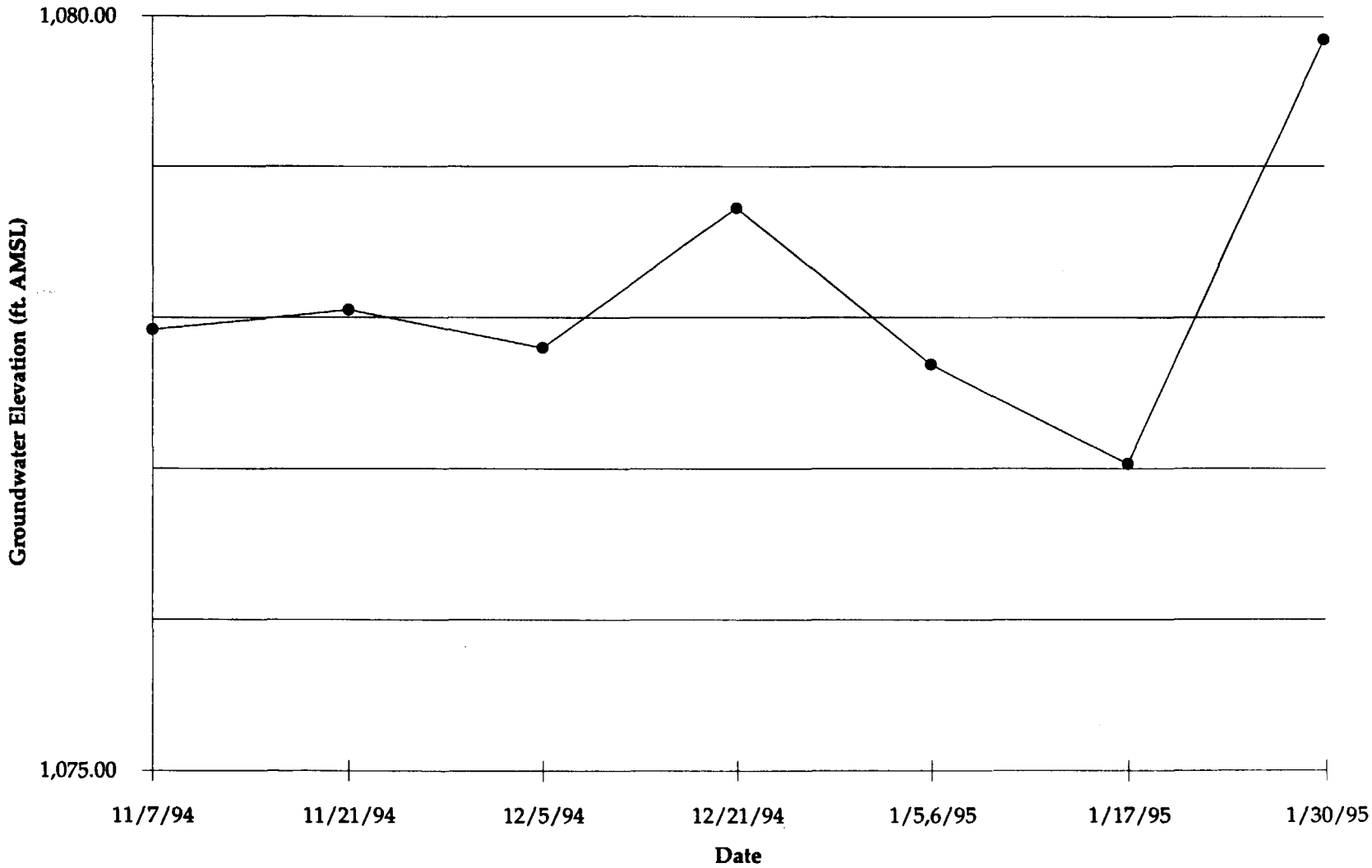
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : PZ-202
SUMMIT NATIONAL SUPERFUND SITE



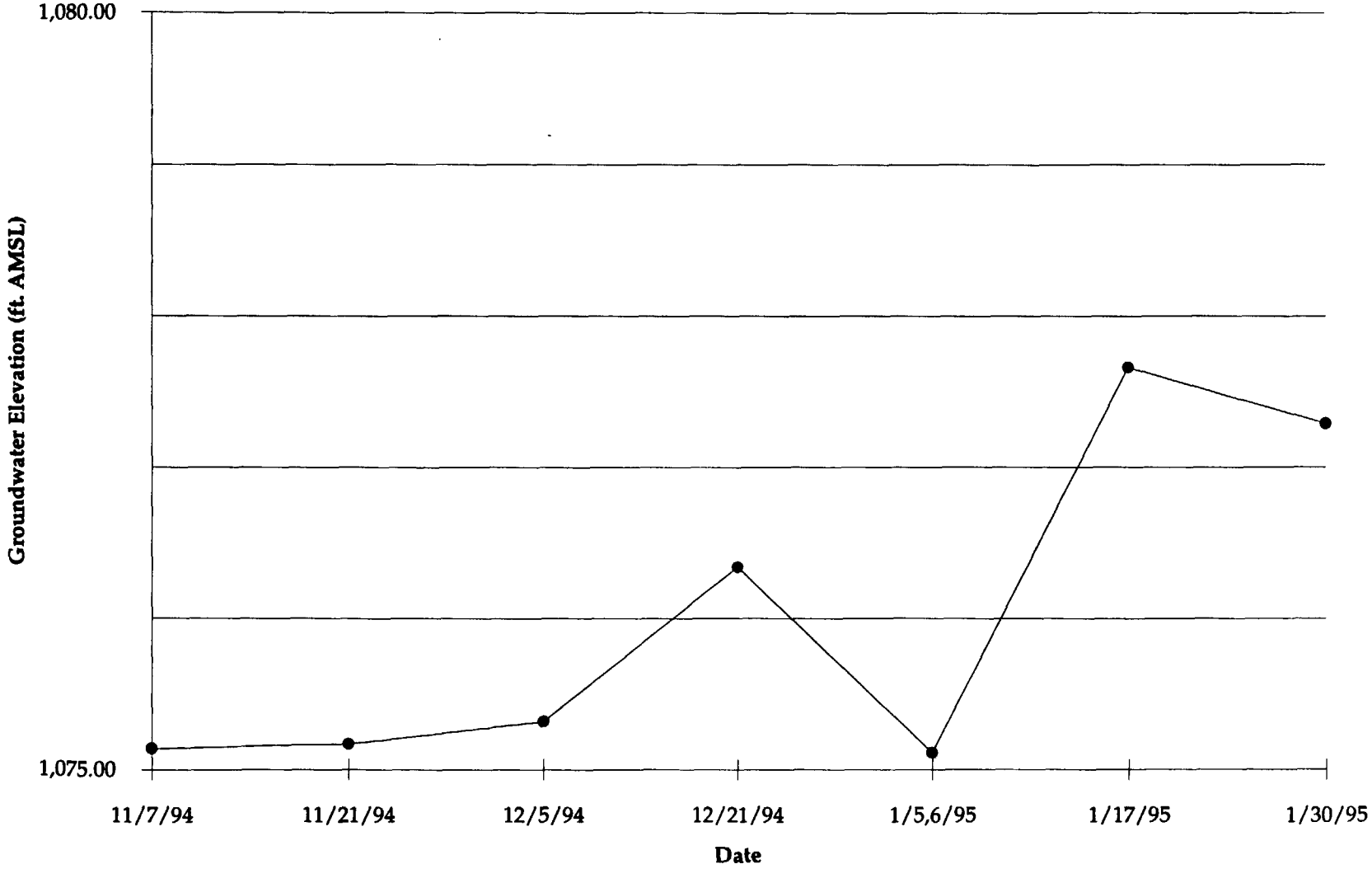
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : PZ-203
SUMMIT NATIONAL SUPERFUND SITE



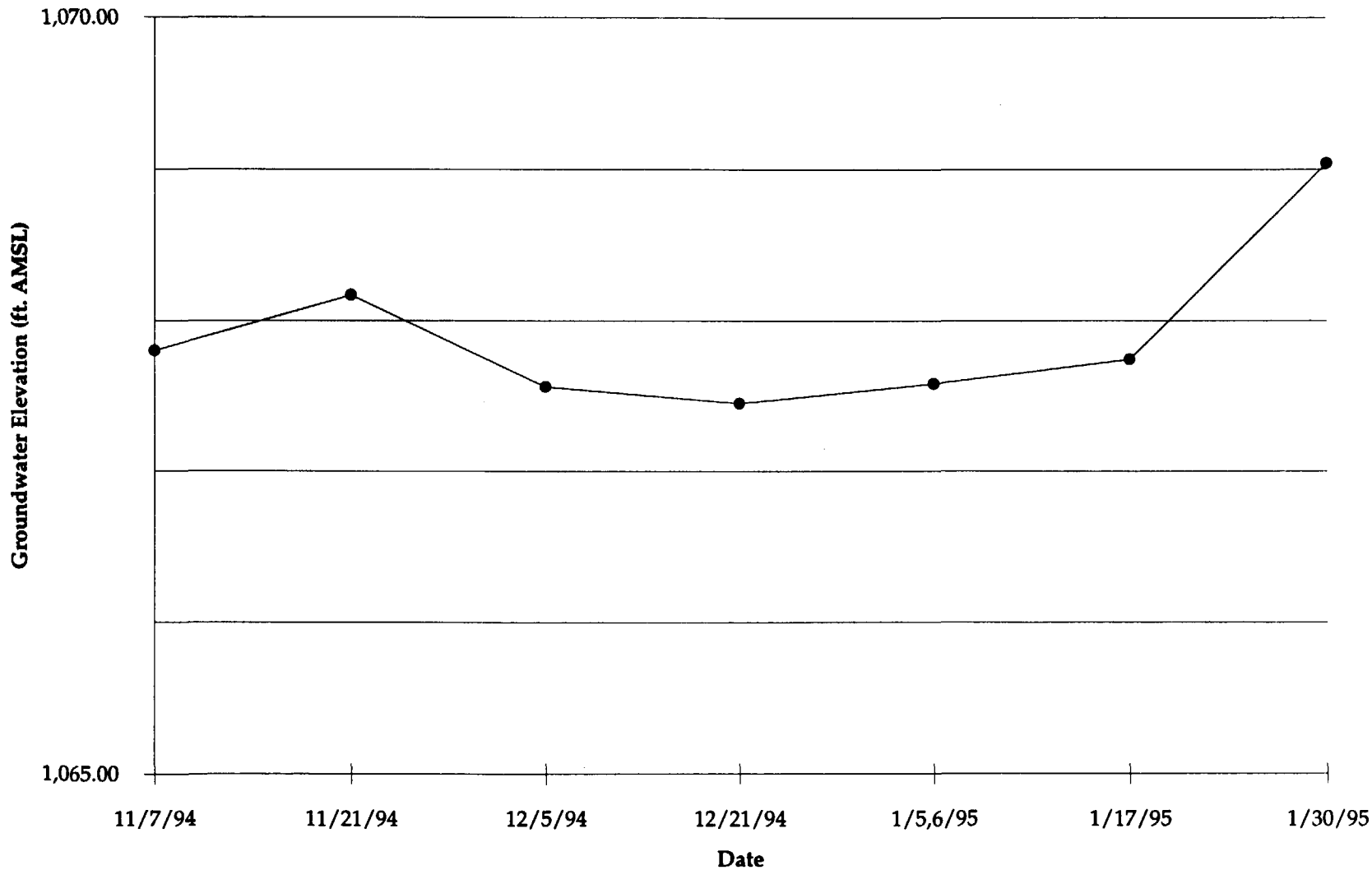
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : PZ-204
SUMMIT NATIONAL SUPERFUND SITE



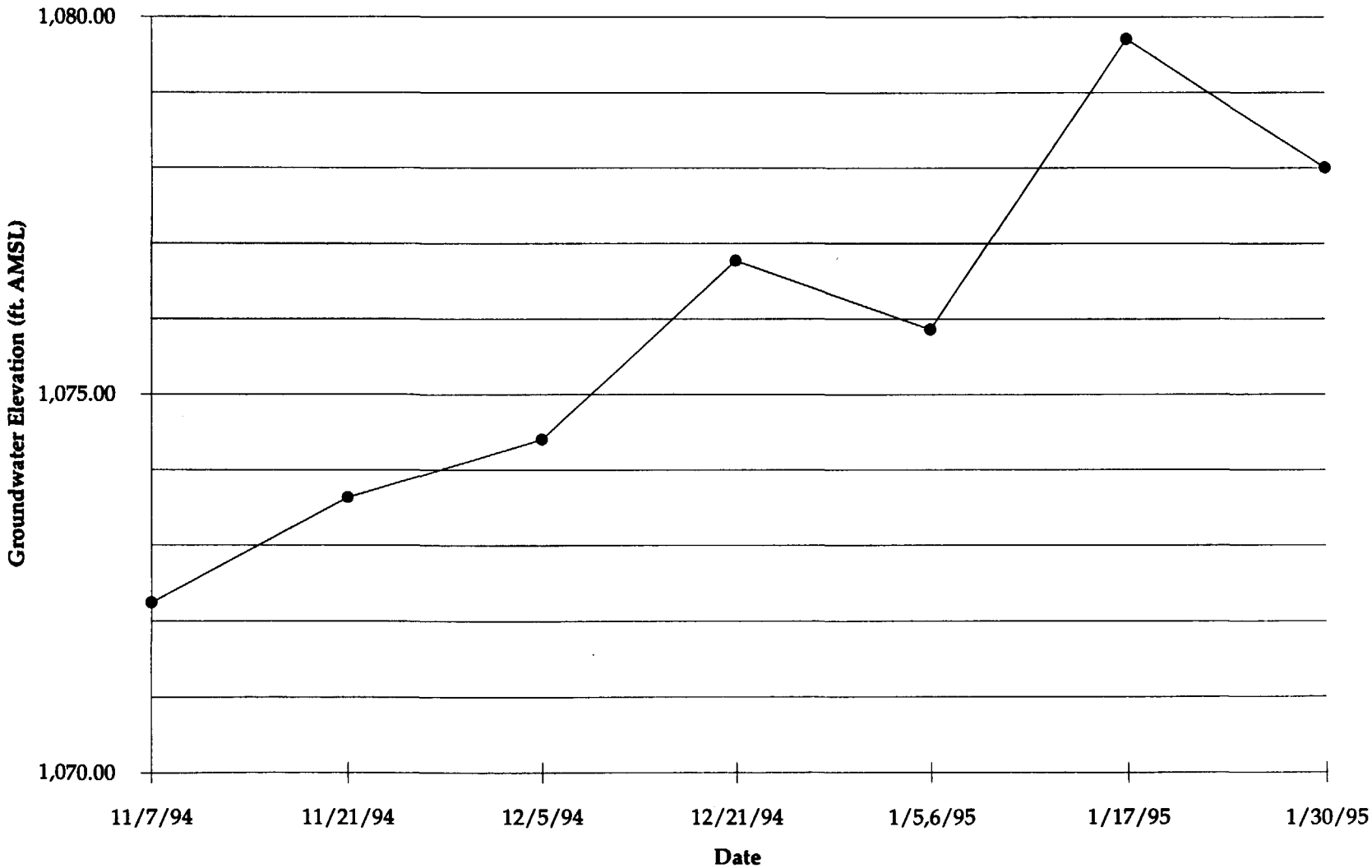
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : PZ-205
SUMMIT NATIONAL SUPERFUND SITE



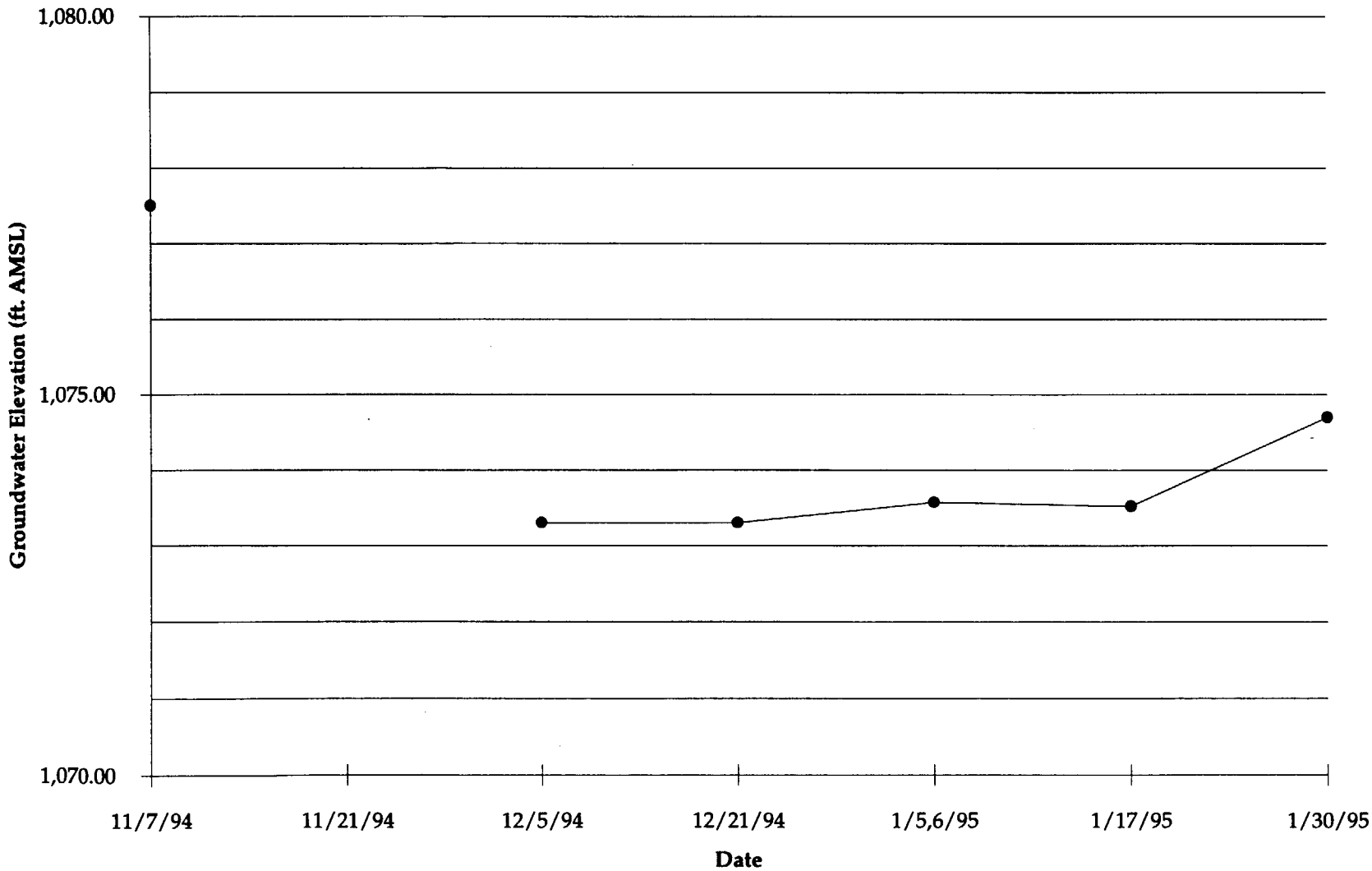
GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : PZ-206
SUMMIT NATIONAL SUPERFUND SITE



GROUNDWATER HYDROGRAPH
UPPER INTERMEDIATE UNIT : PZ-207
SUMMIT NATIONAL SUPERFUND SITE

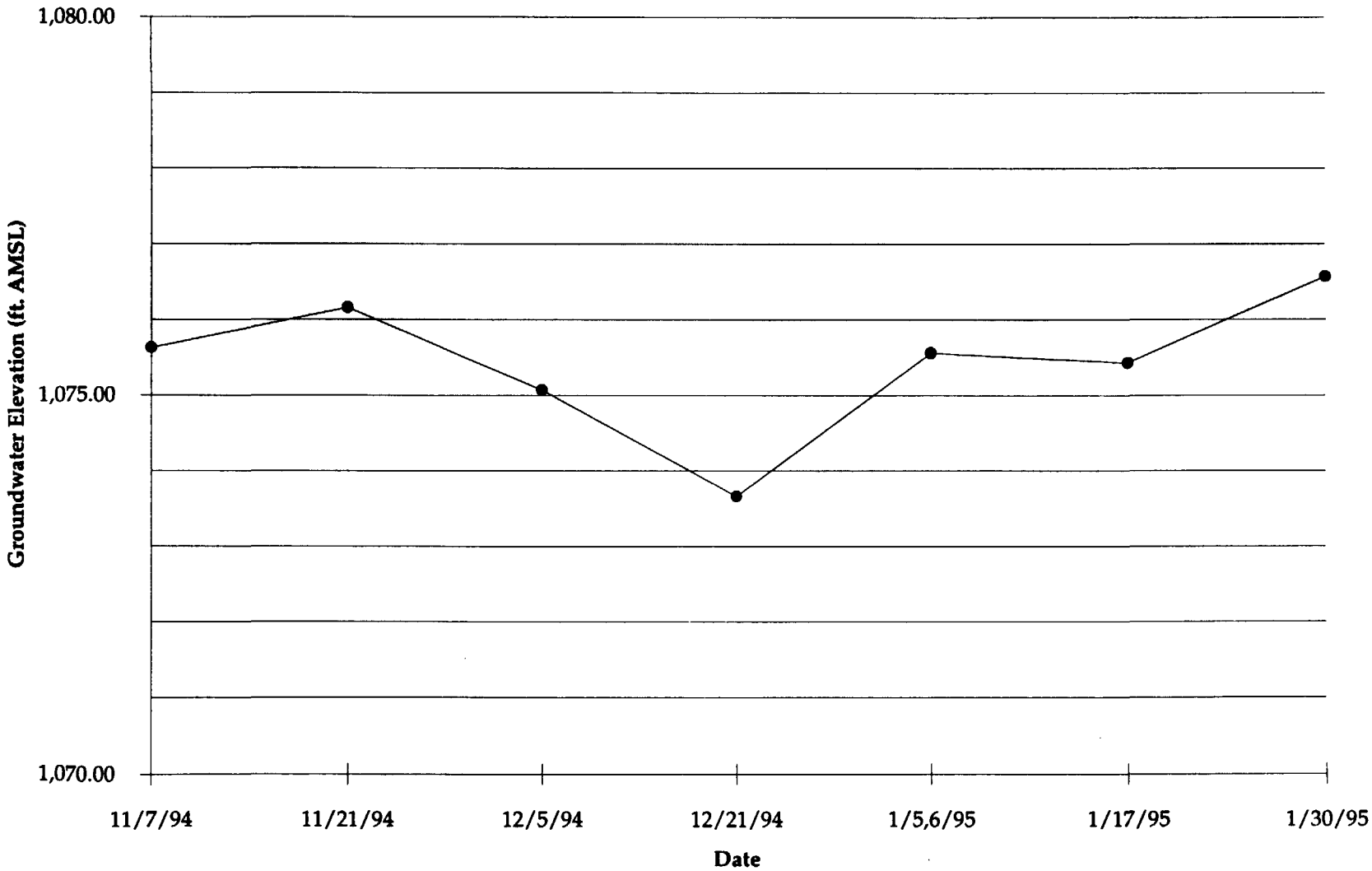


GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : MW-25
SUMMIT NATIONAL SUPERFUND SITE

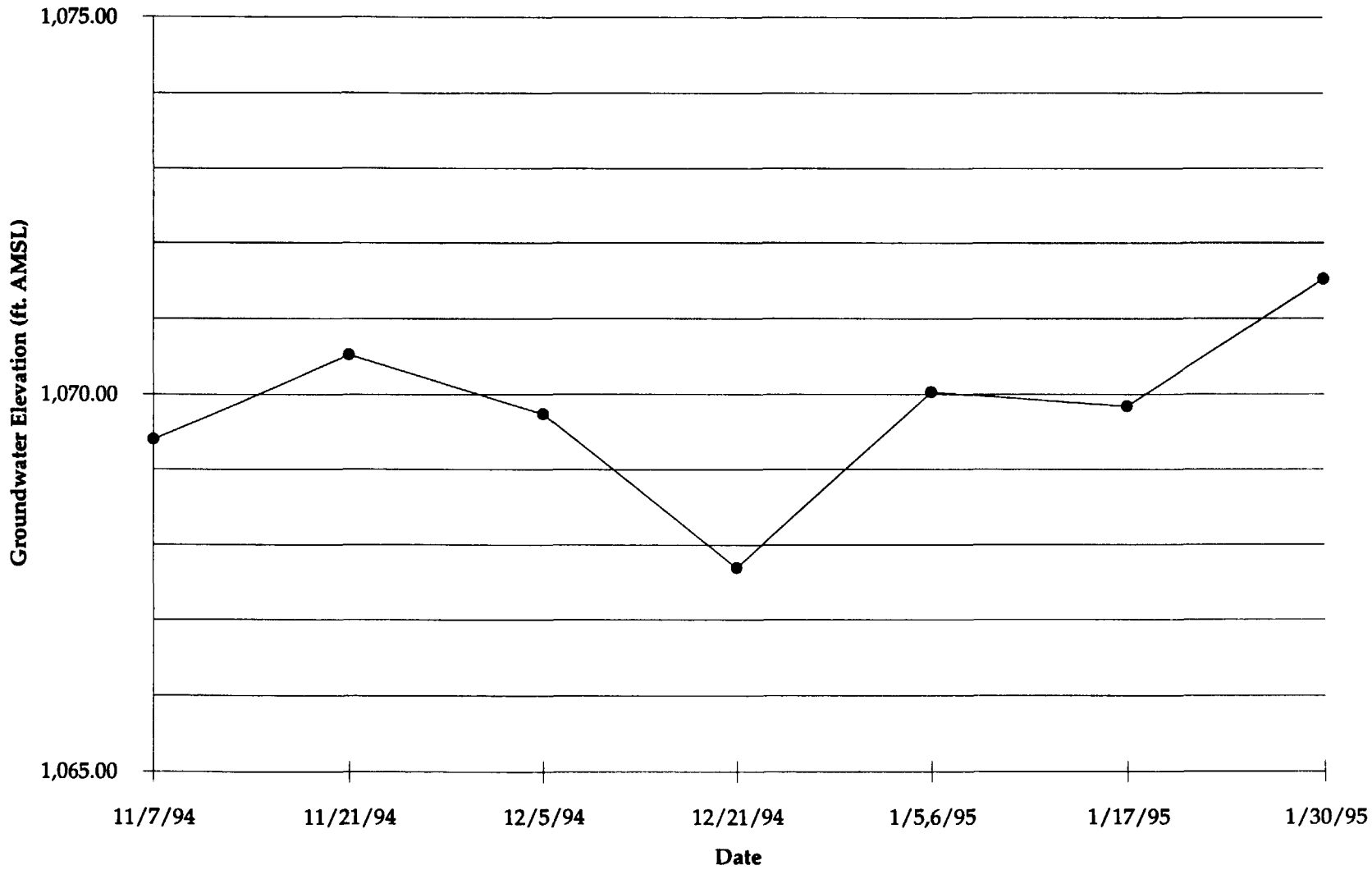


Note: No data available for 11/21/94

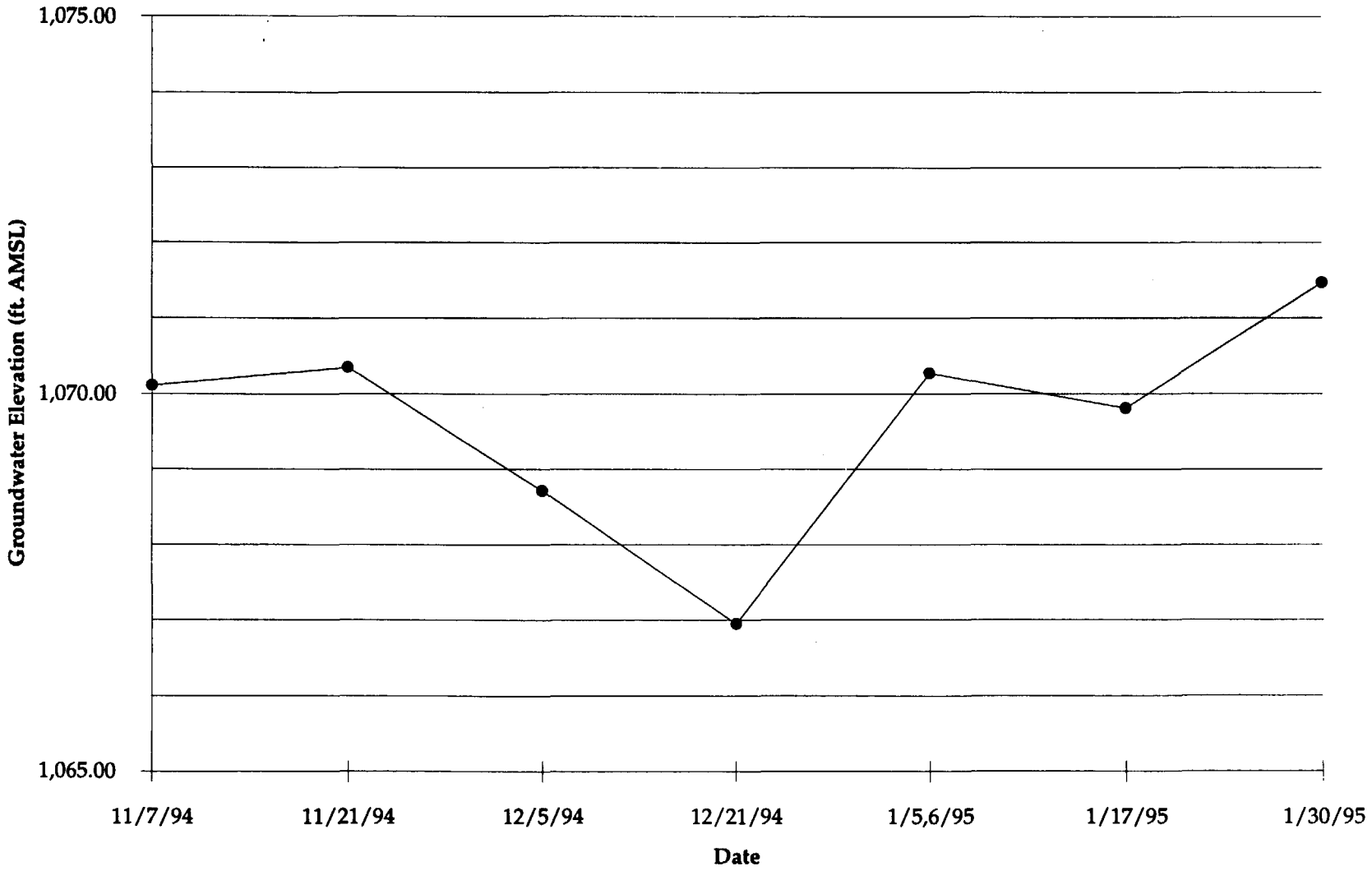
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : MW-301
SUMMIT NATIONAL SUPERFUND SITE



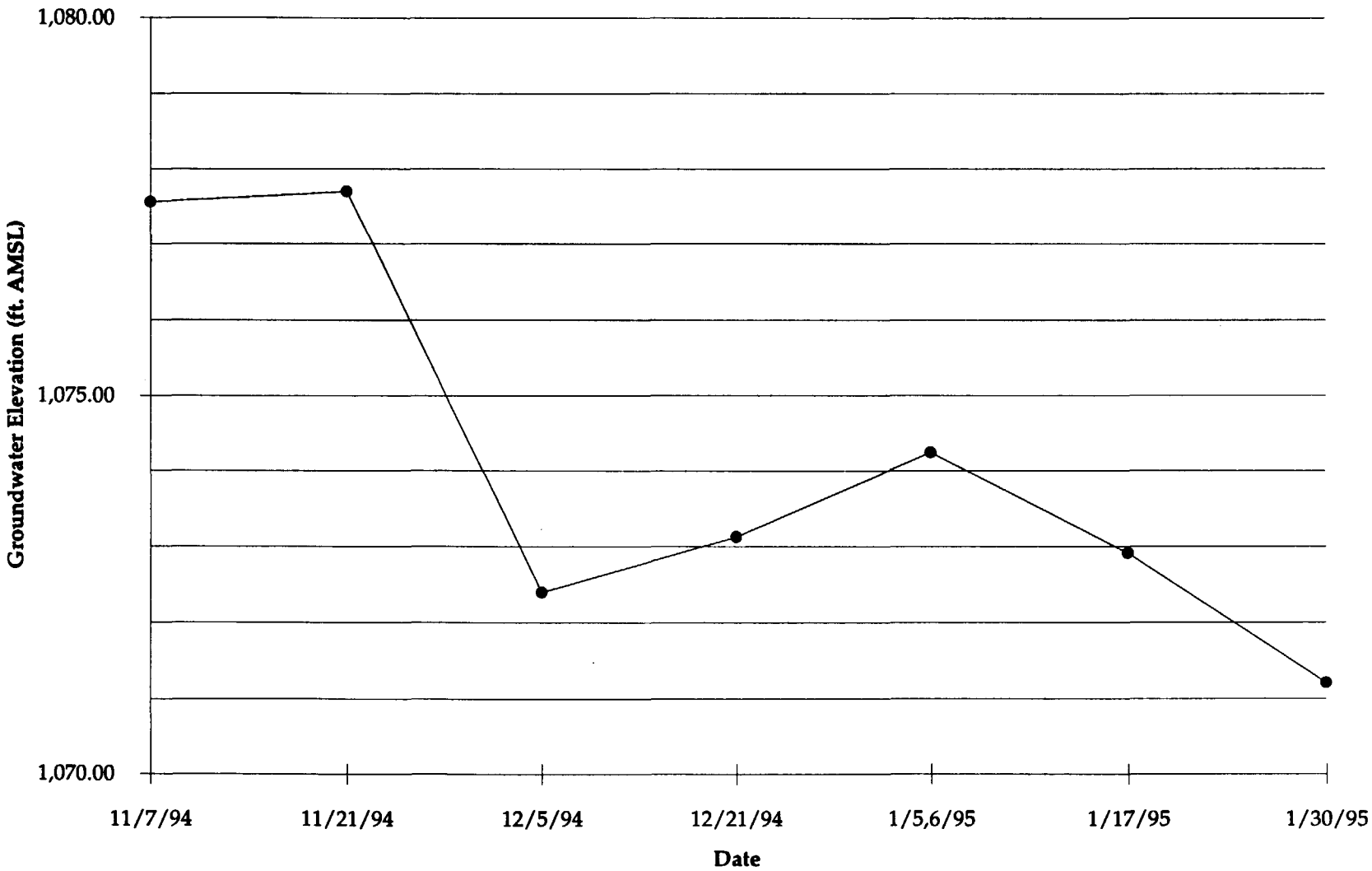
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : MW-302
SUMMIT NATIONAL SUPERFUND SITE



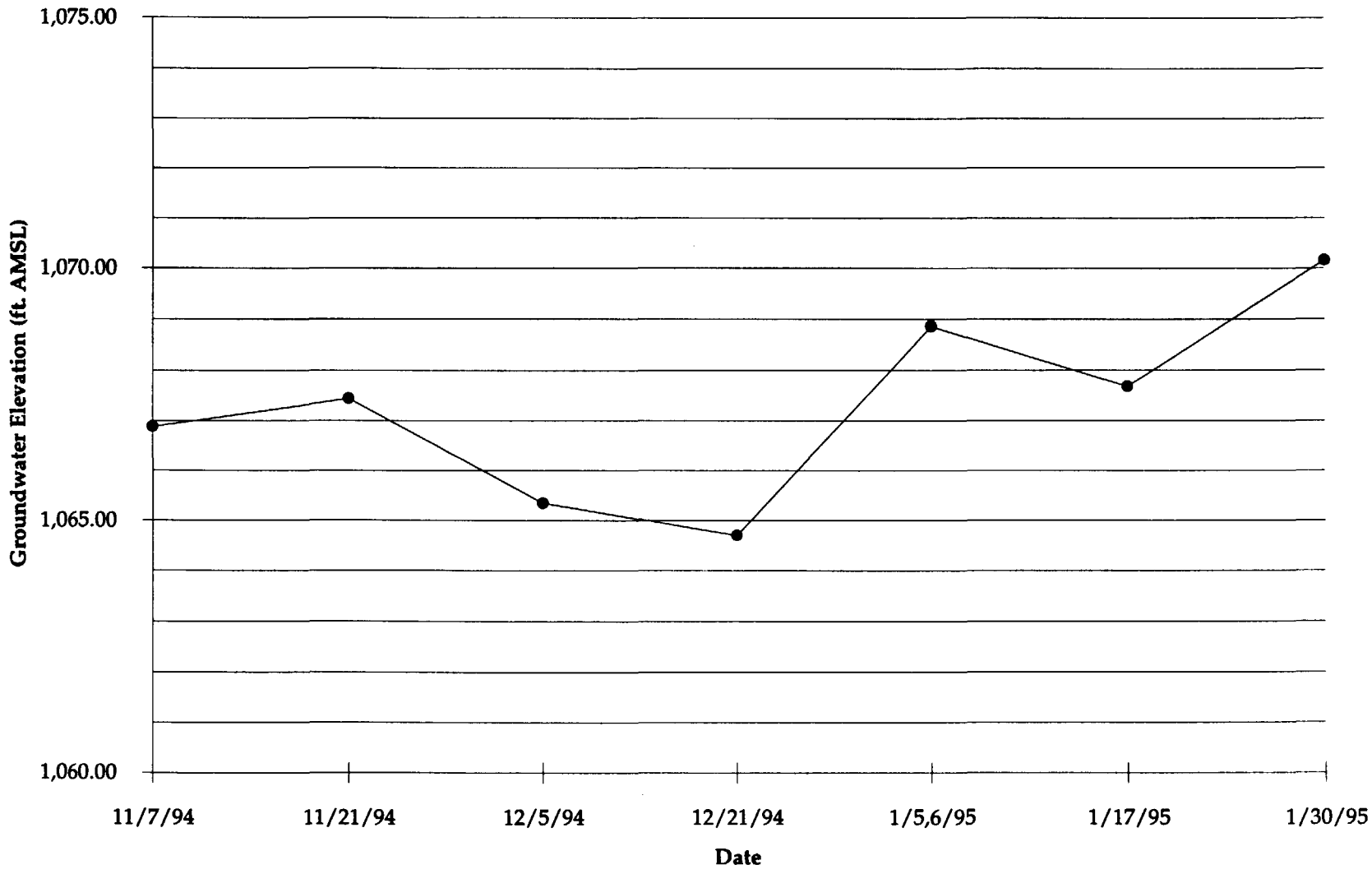
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : MW-303
SUMMIT NATIONAL SUPERFUND SITE



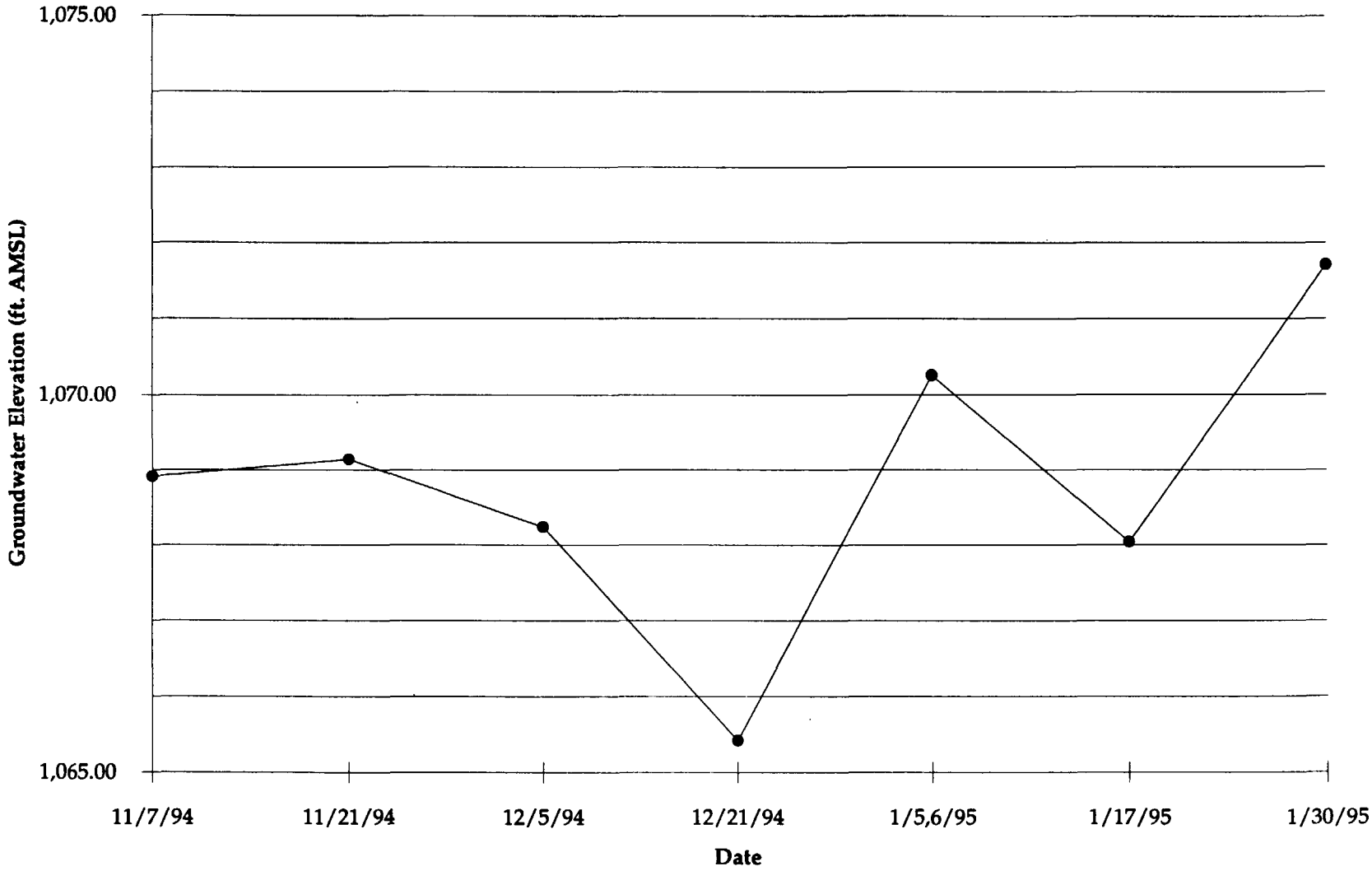
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : MW-304
SUMMIT NATIONAL SUPERFUND SITE



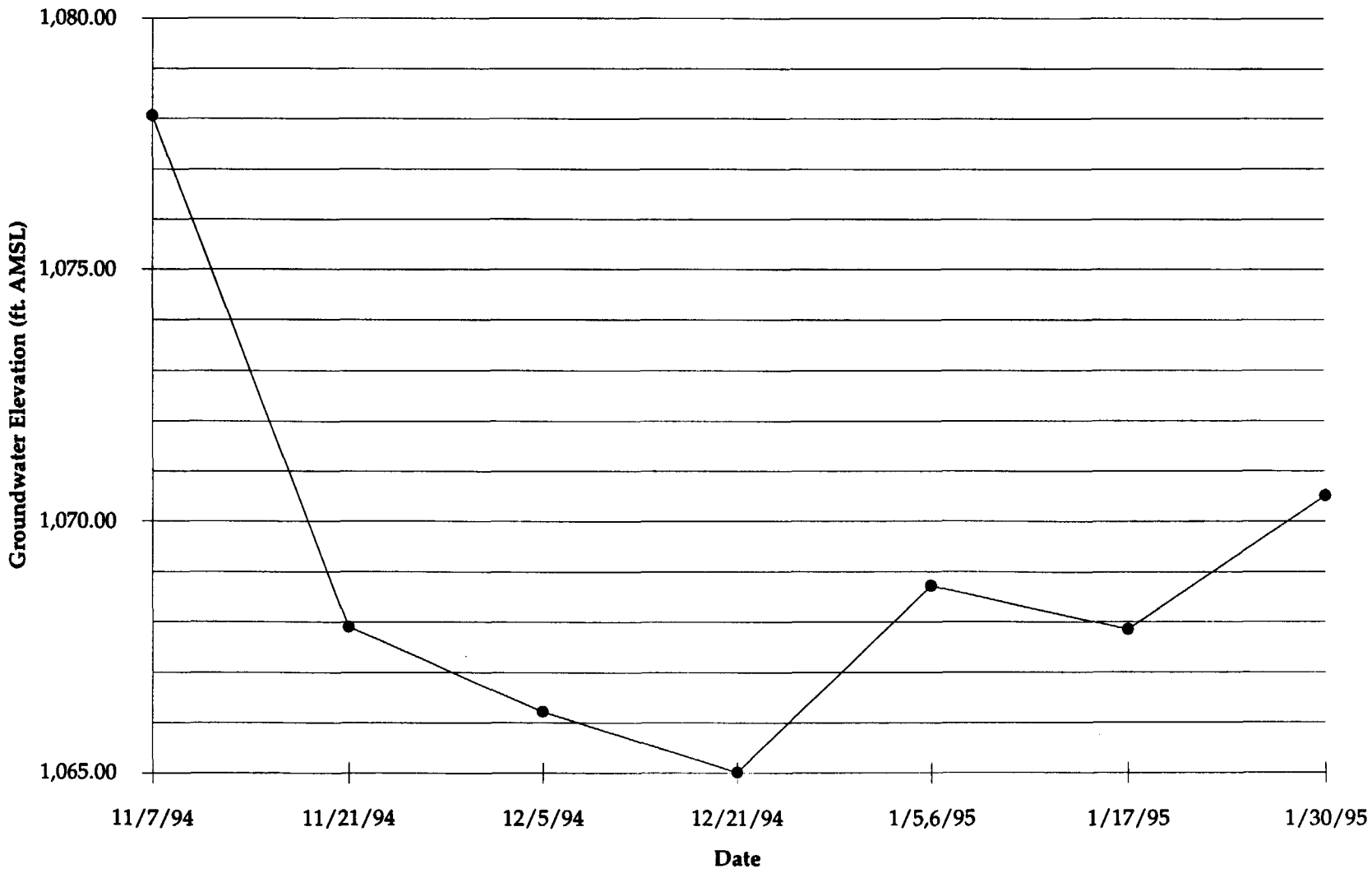
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : MW-305
SUMMIT NATIONAL SUPERFUND SITE



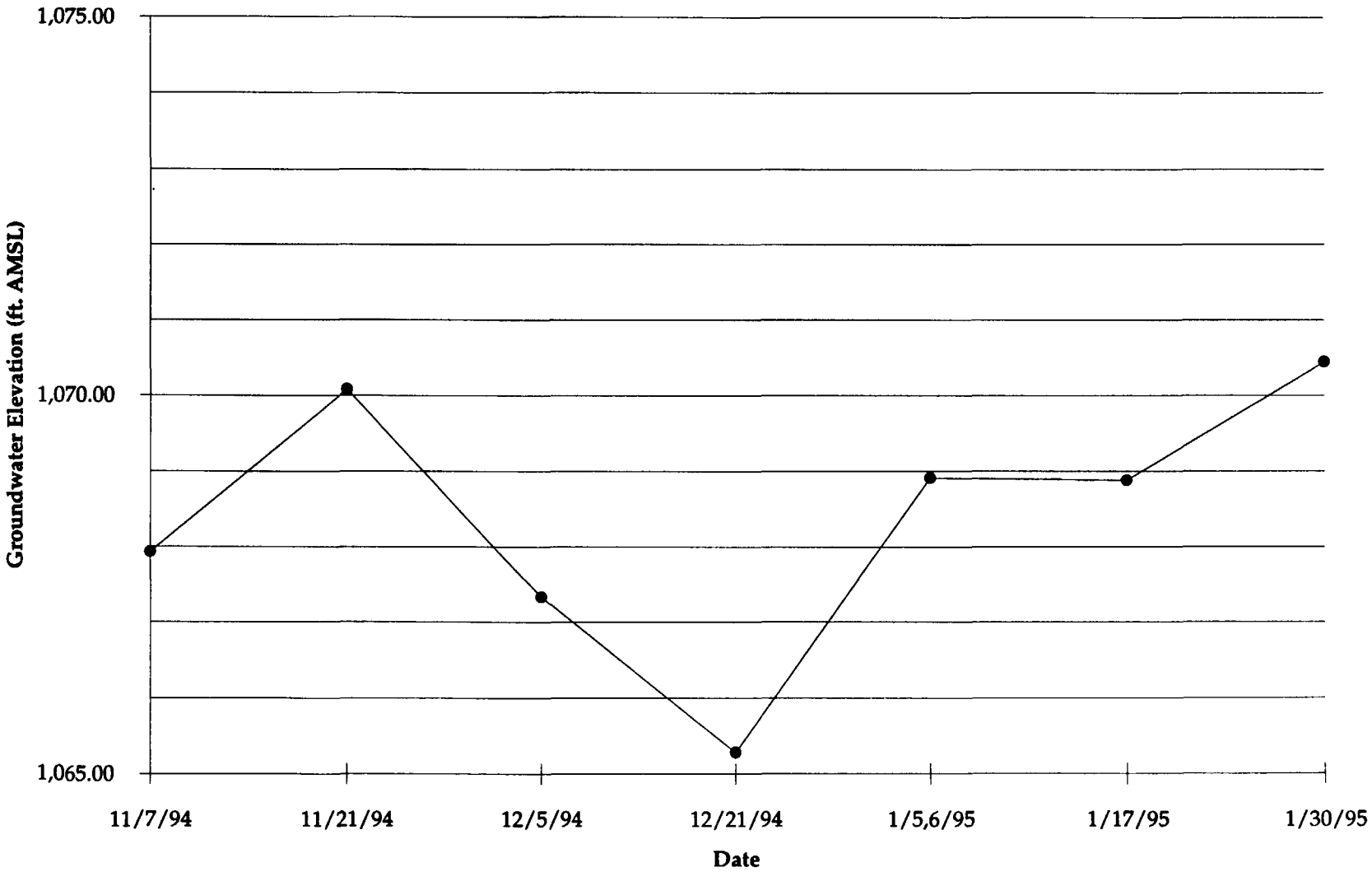
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : MW-306
SUMMIT NATIONAL SUPERFUND SITE



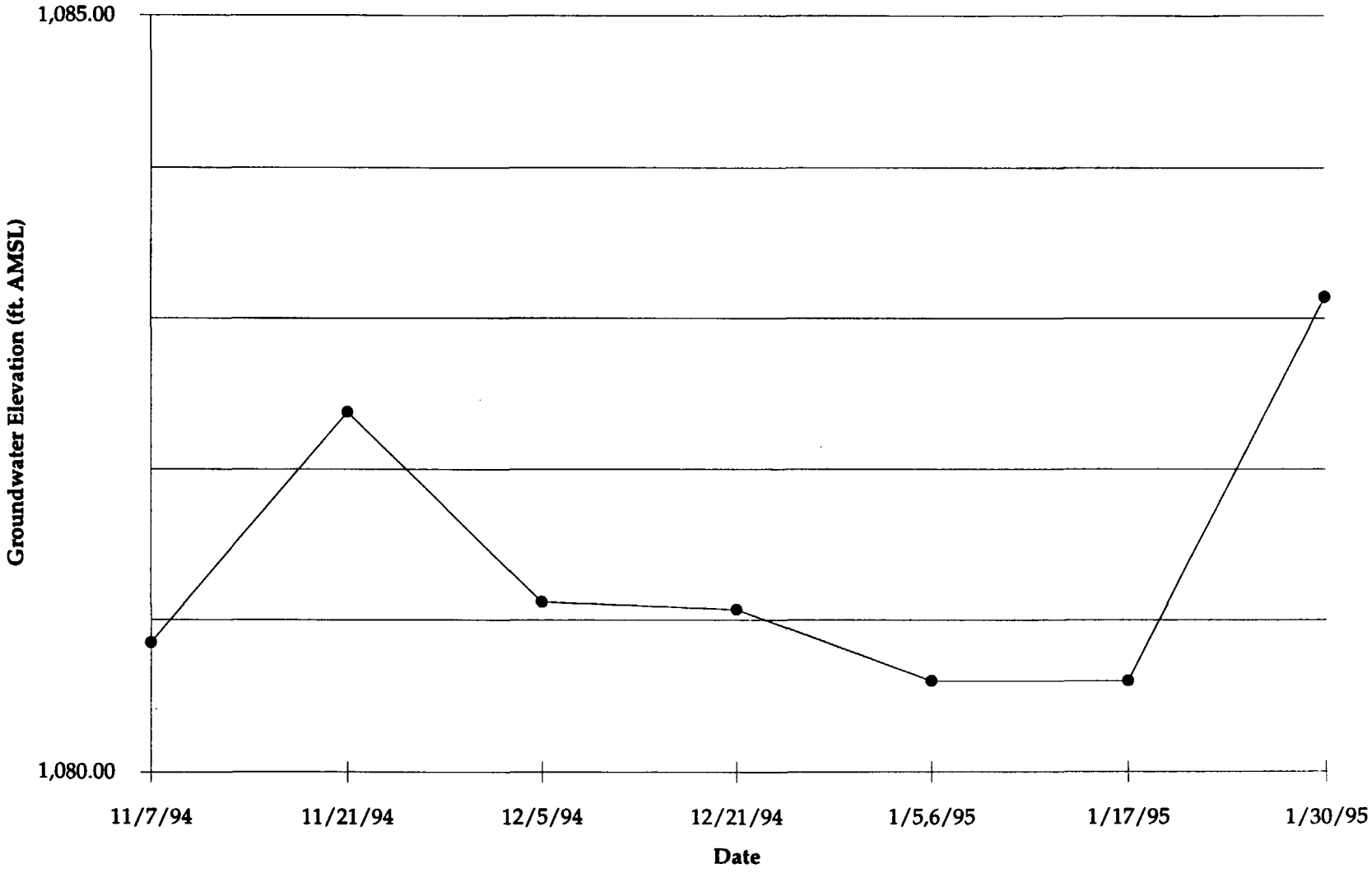
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : MW-307
SUMMIT NATIONAL SUPERFUND SITE



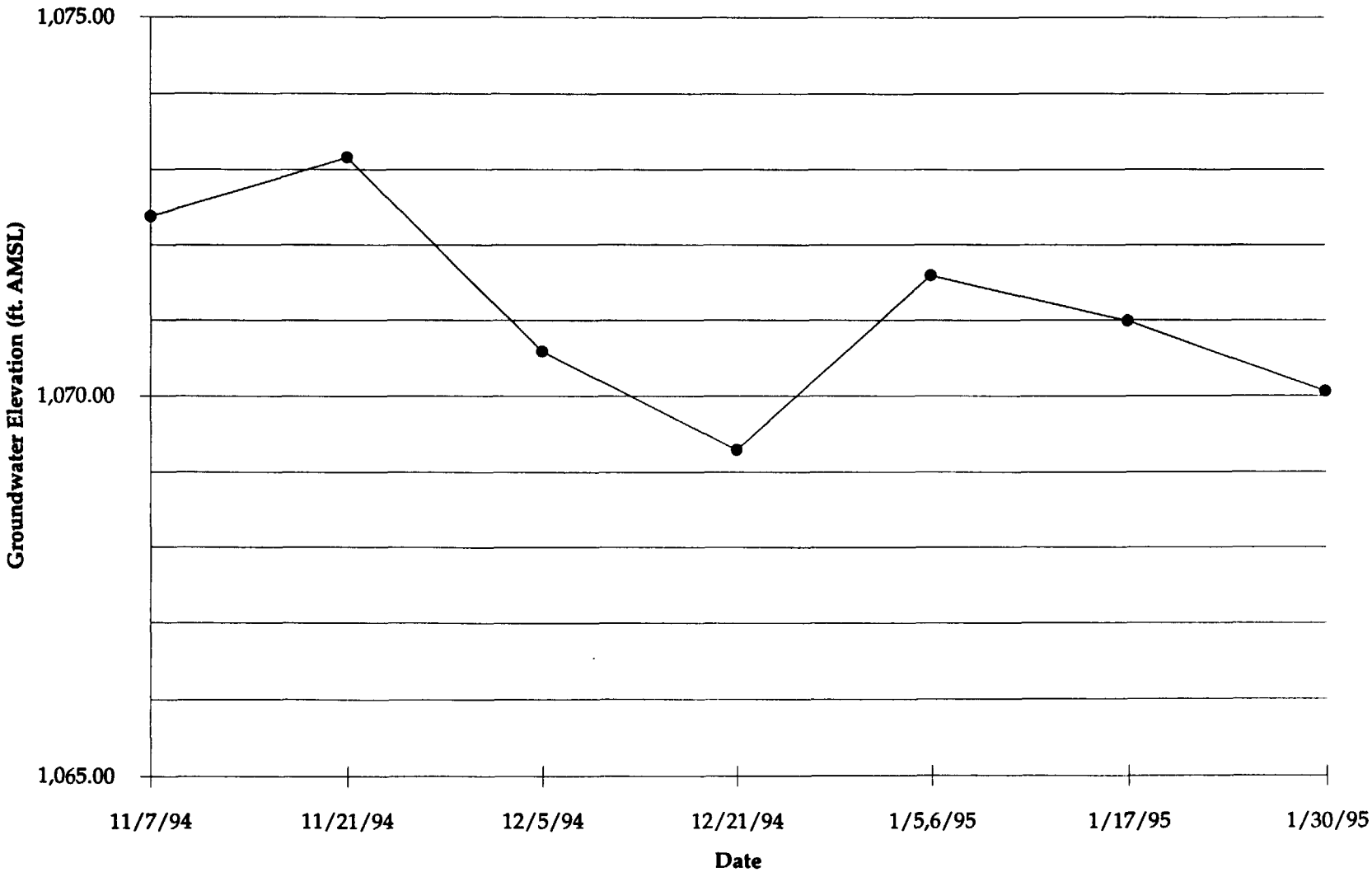
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : MW-309
SUMMIT NATIONAL SUPERFUND SITE



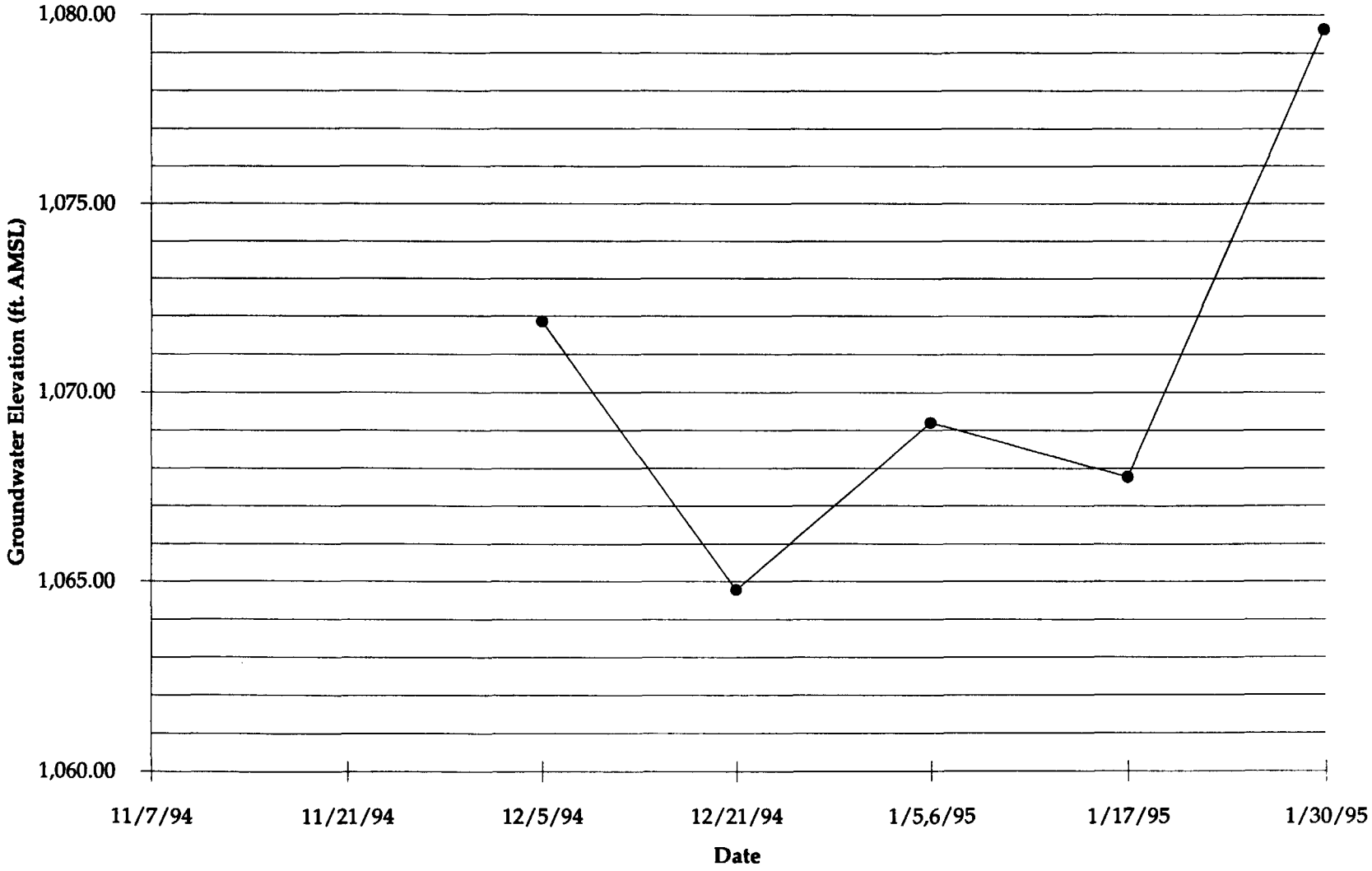
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : MW-319
SUMMIT NATIONAL SUPERFUND SITE



GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : PZ-301
SUMMIT NATIONAL SUPERFUND SITE

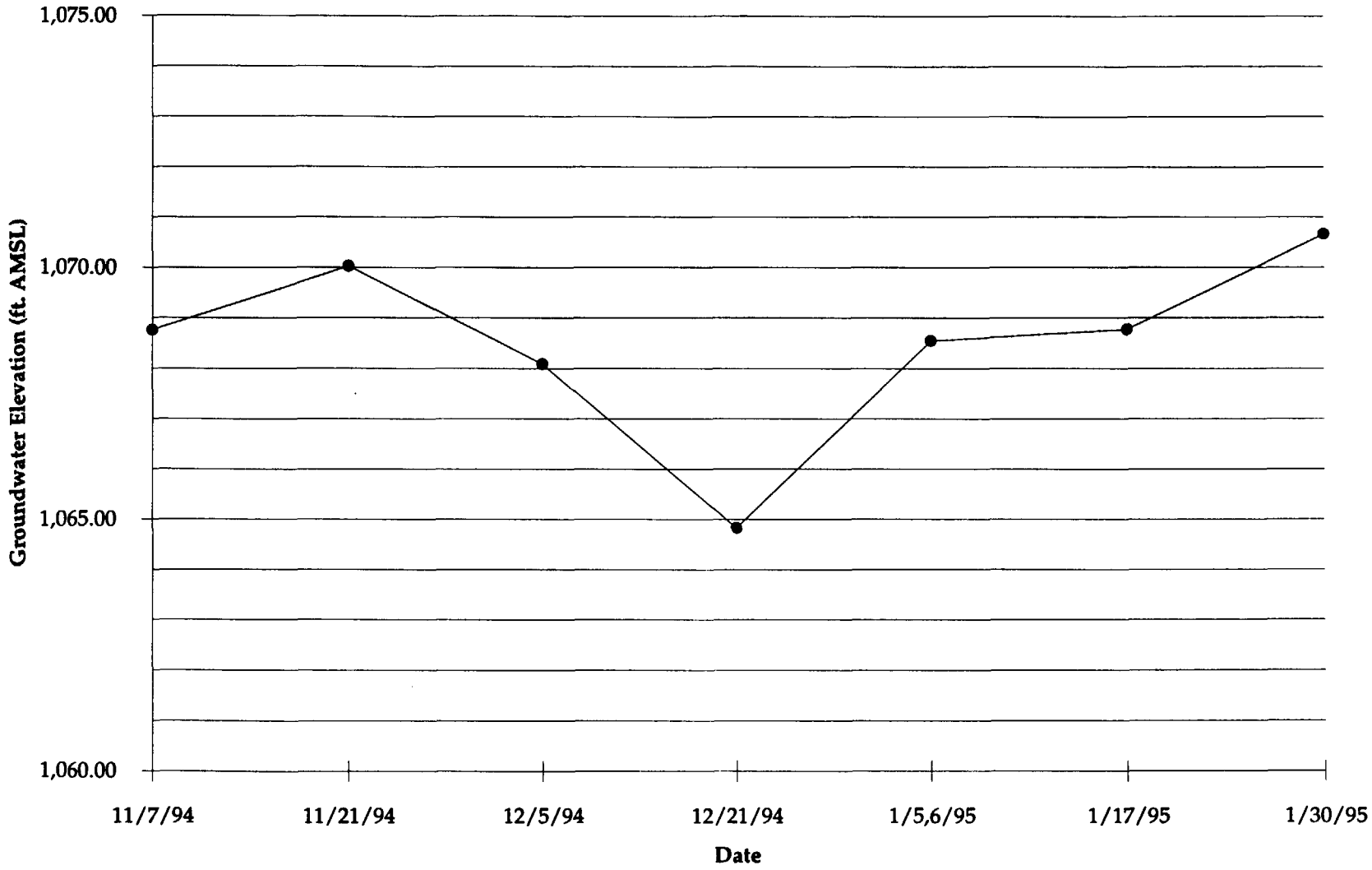


GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : PZ-302
SUMMIT NATIONAL SUPERFUND SITE

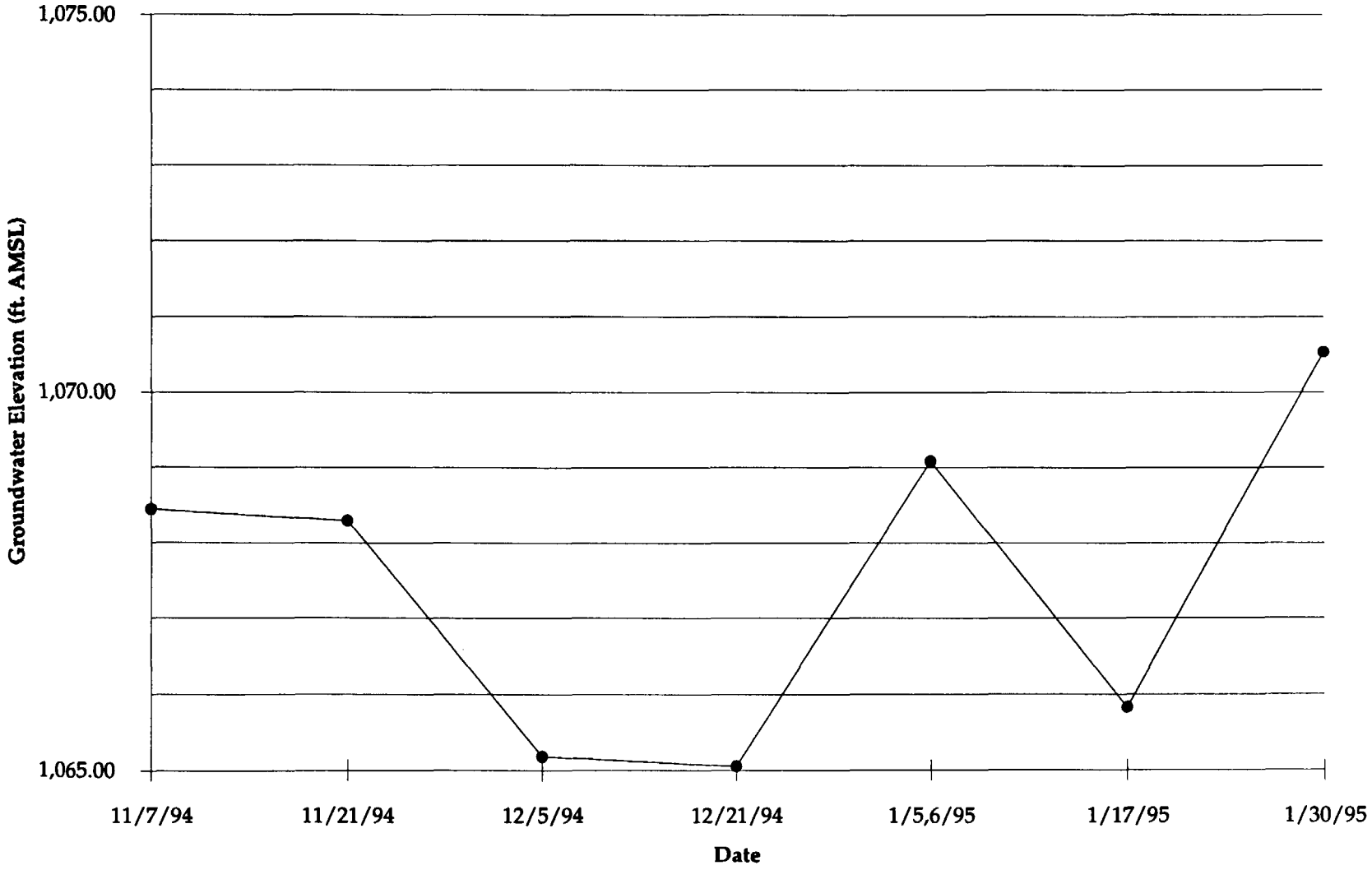


Note: No data available for 11/7/94 and 11/21/94

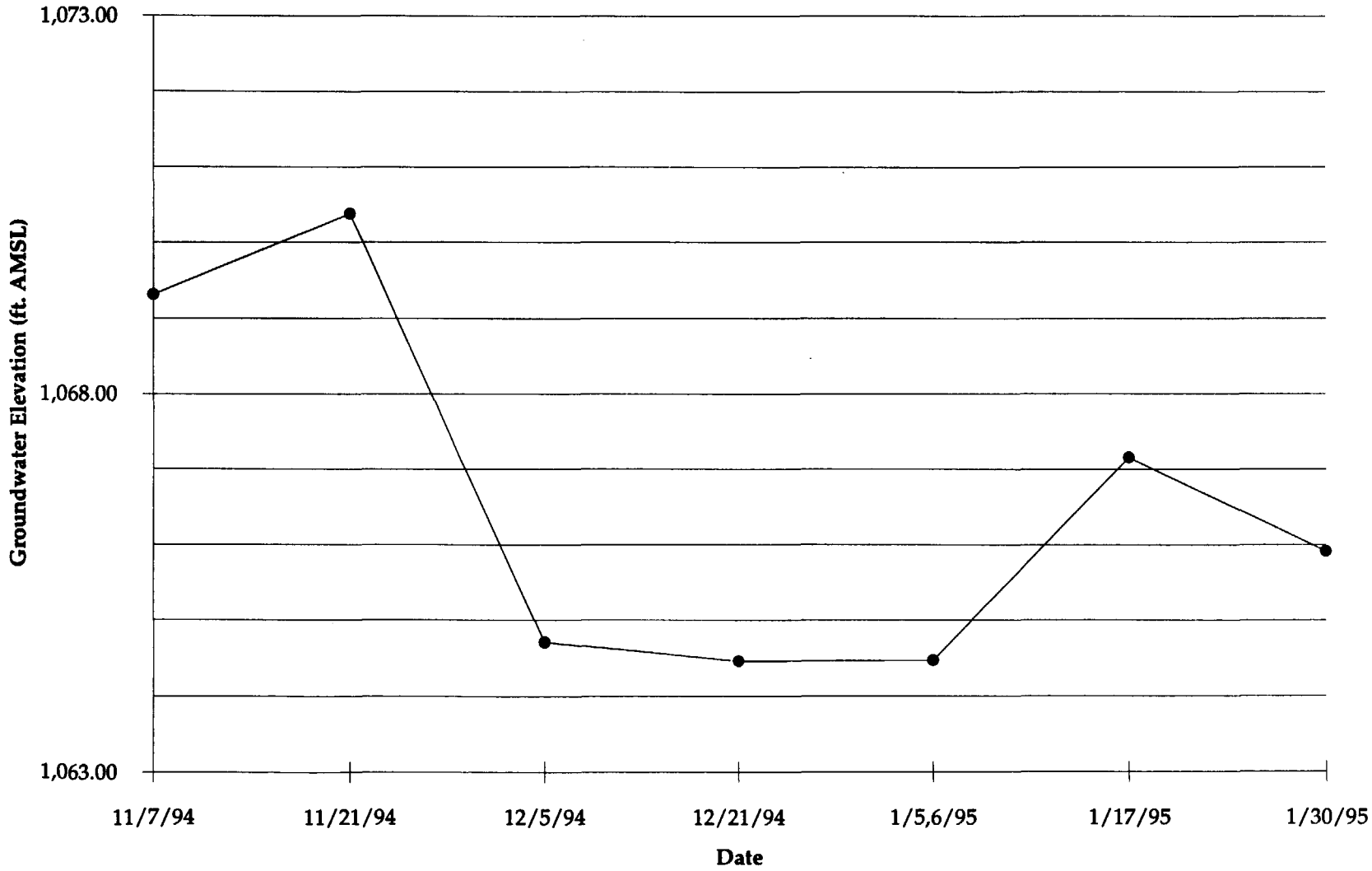
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : PZ-303
SUMMIT NATIONAL SUPERFUND SITE



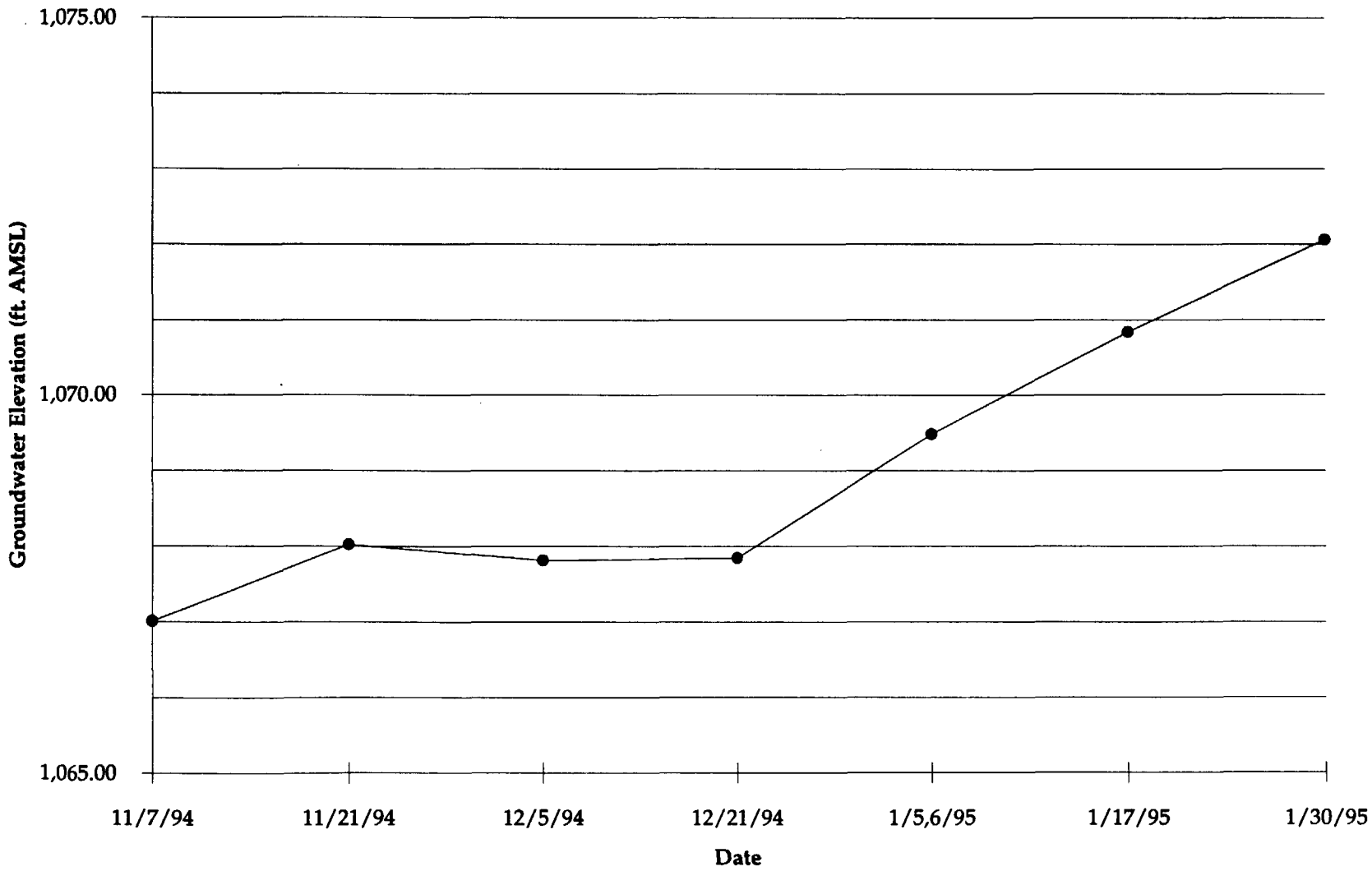
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : PZ-305
SUMMIT NATIONAL SUPERFUND SITE



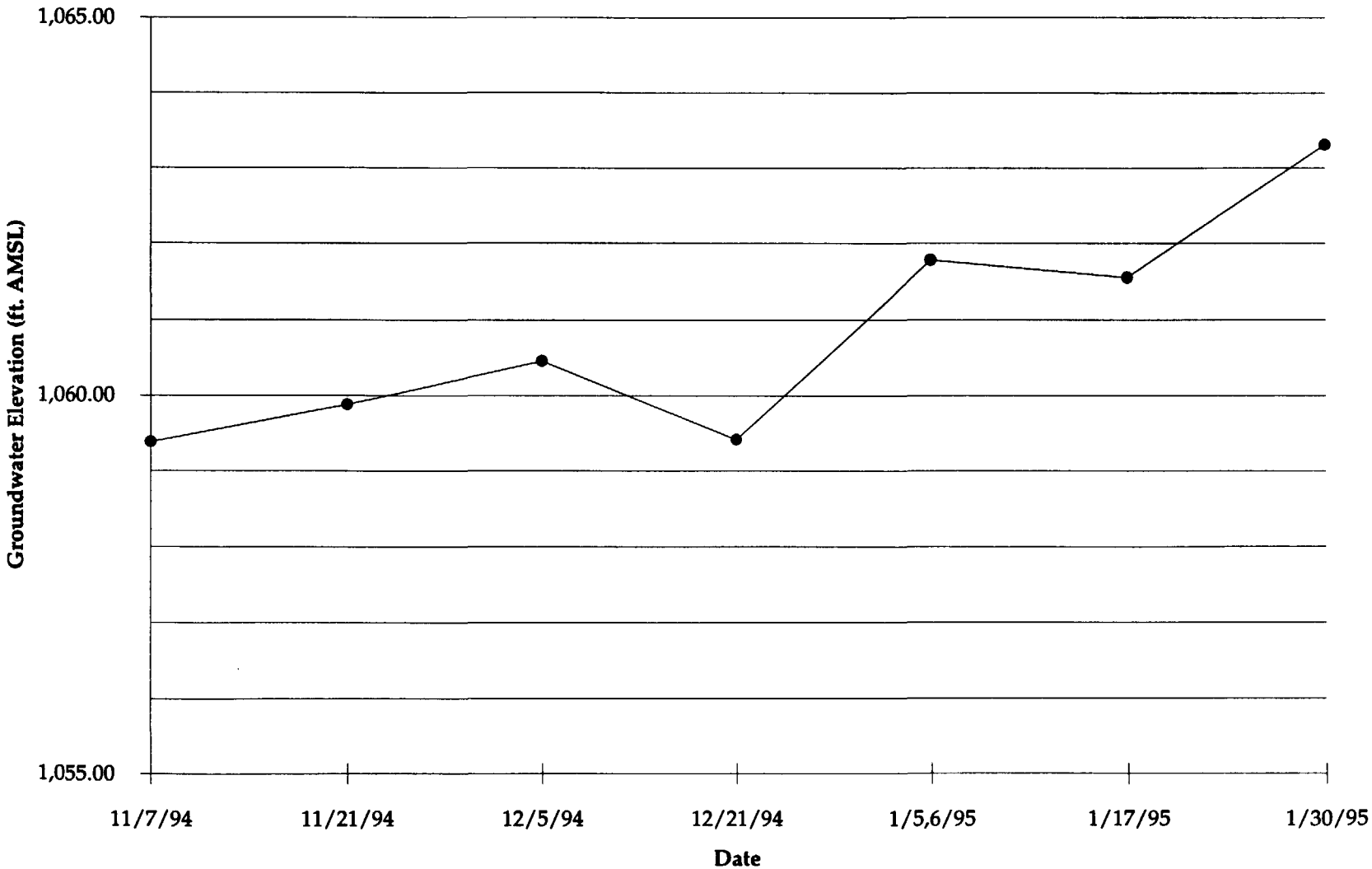
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : PZ-306
SUMMIT NATIONAL SUPERFUND SITE



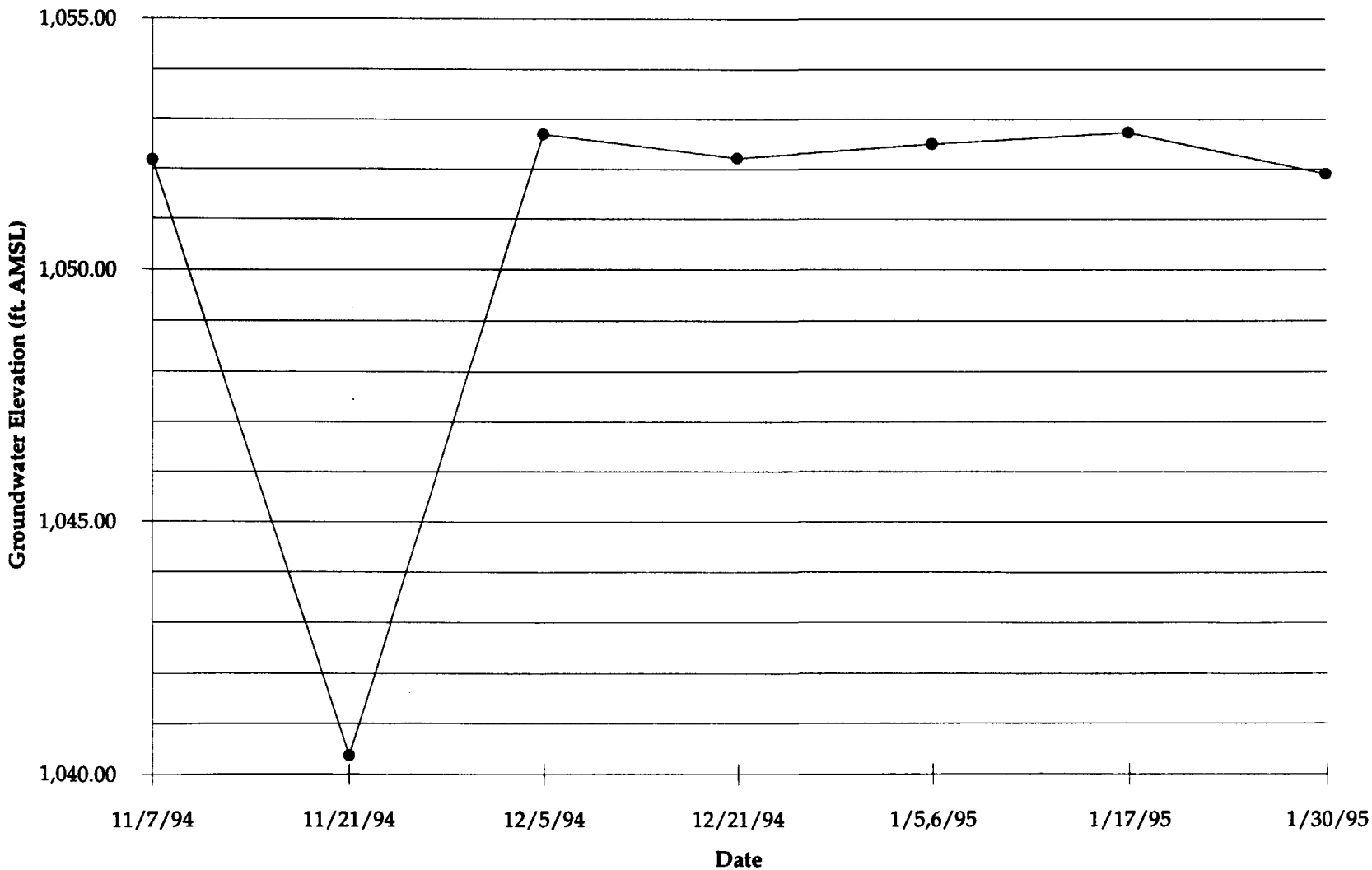
GROUNDWATER HYDROGRAPH
LOWER INTERMEDIATE UNIT : PZ-307
SUMMIT NATIONAL SUPERFUND SITE



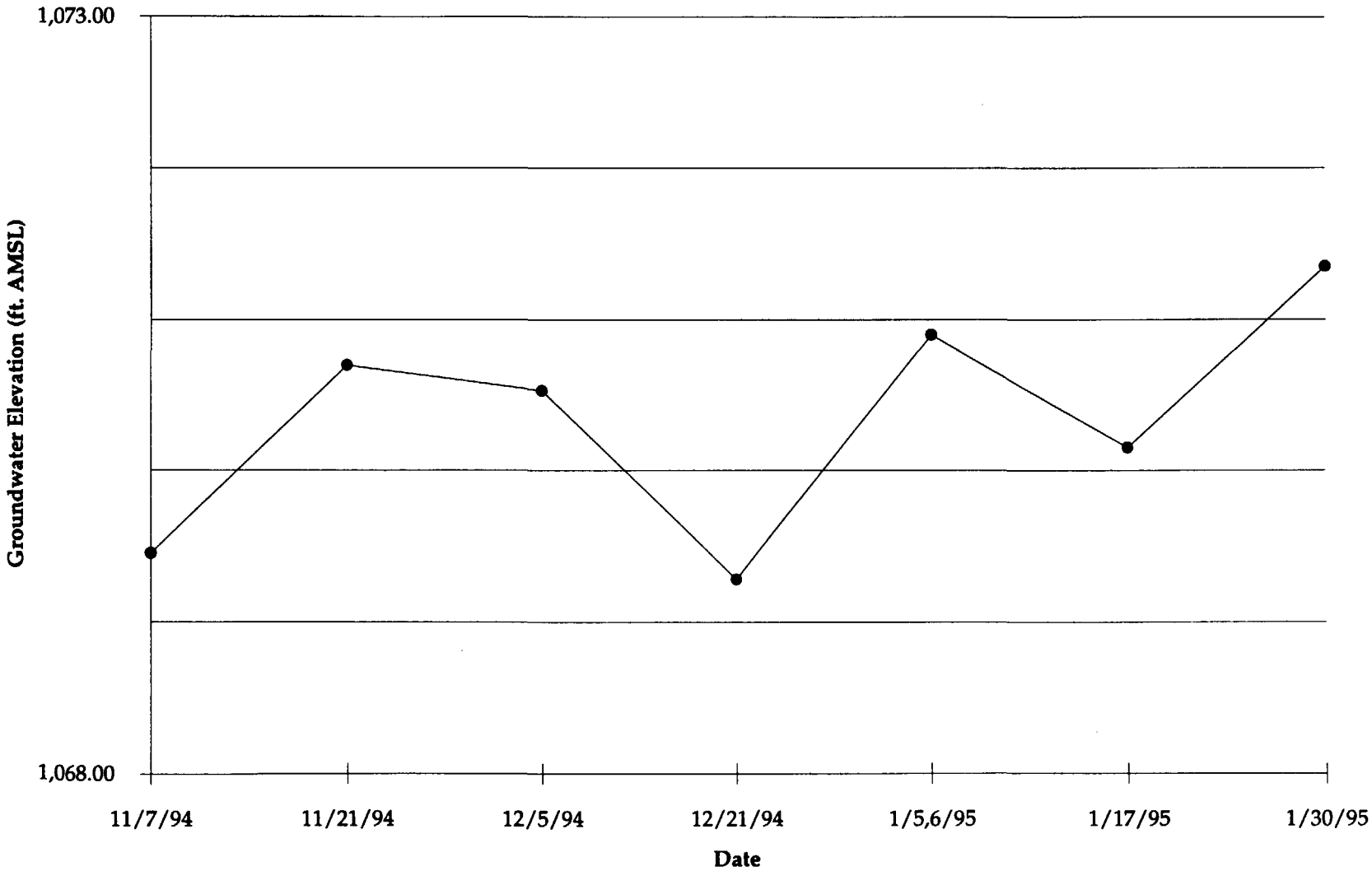
GROUNDWATER HYDROGRAPH
UPPER SHARON UNIT : MW-401
SUMMIT NATIONAL SUPERFUND SITE



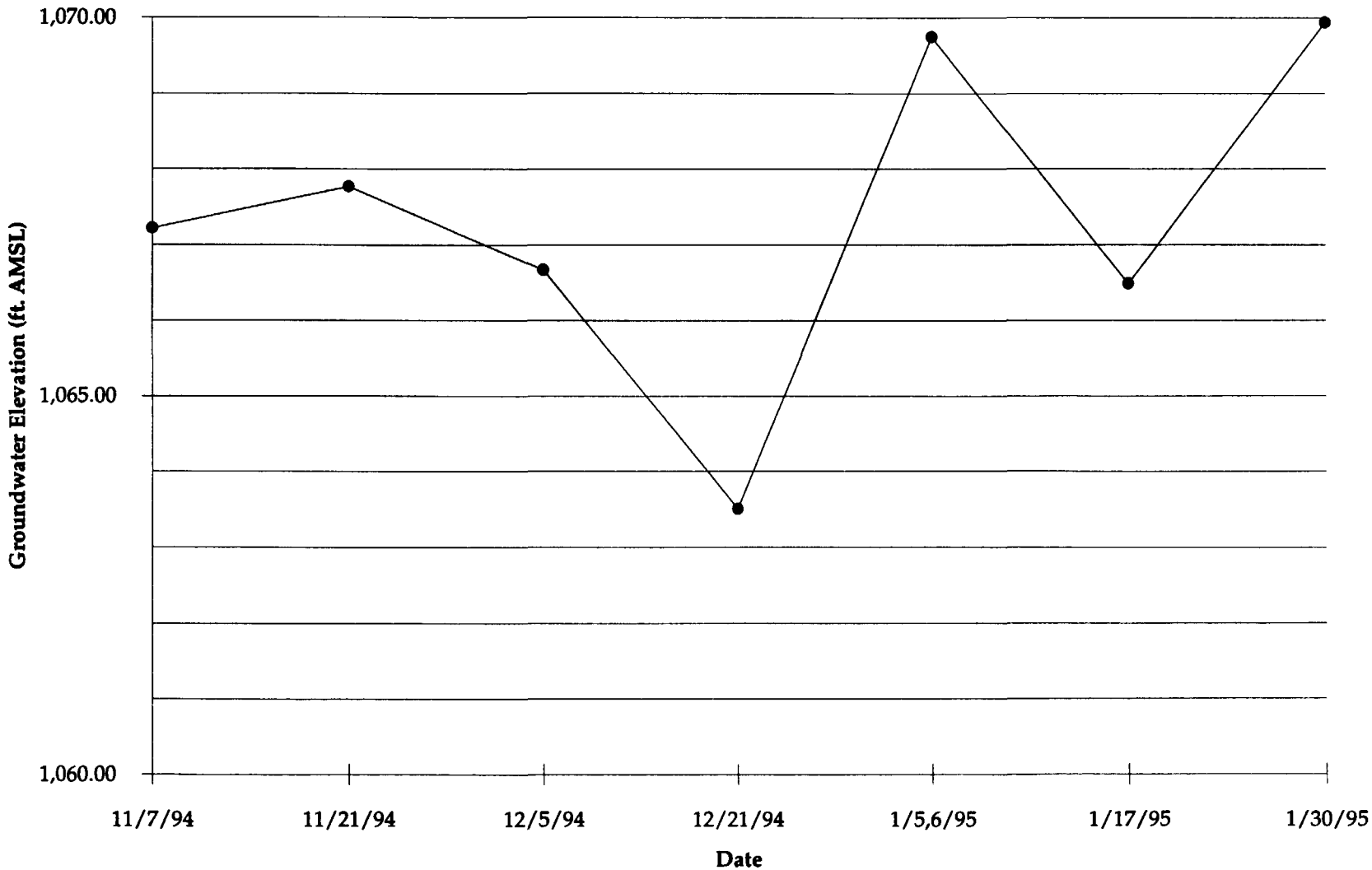
GROUNDWATER HYDROGRAPH
UPPER SHARON UNIT : MW-402
SUMMIT NATIONAL SUPERFUND SITE



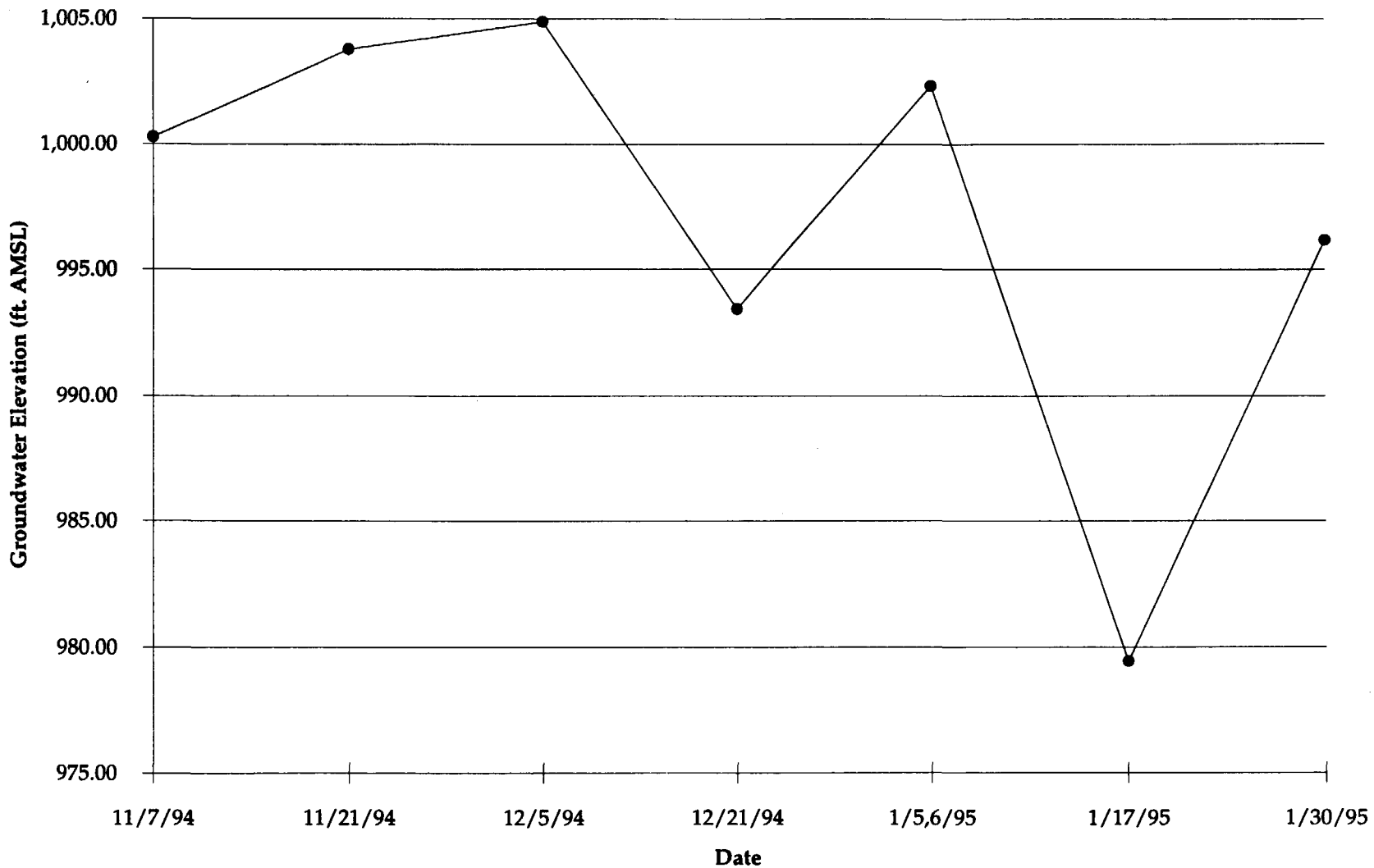
GROUNDWATER HYDROGRAPH
UPPER SHARON UNIT : MW-414
SUMMIT NATIONAL SUPERFUND SITE



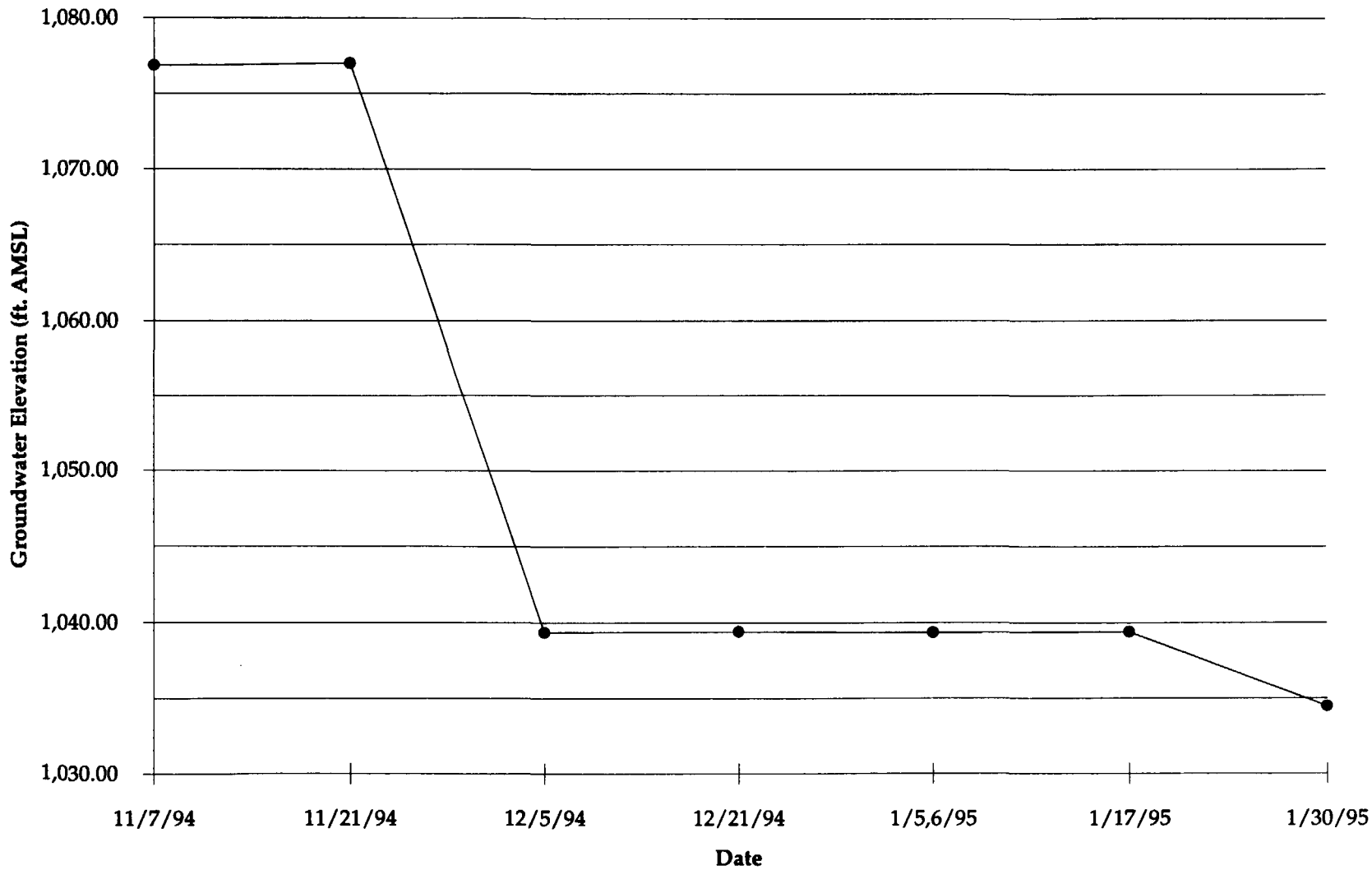
GROUNDWATER HYDROGRAPH
UPPER SHARON UNIT : MW-415
SUMMIT NATIONAL SUPERFUND SITE



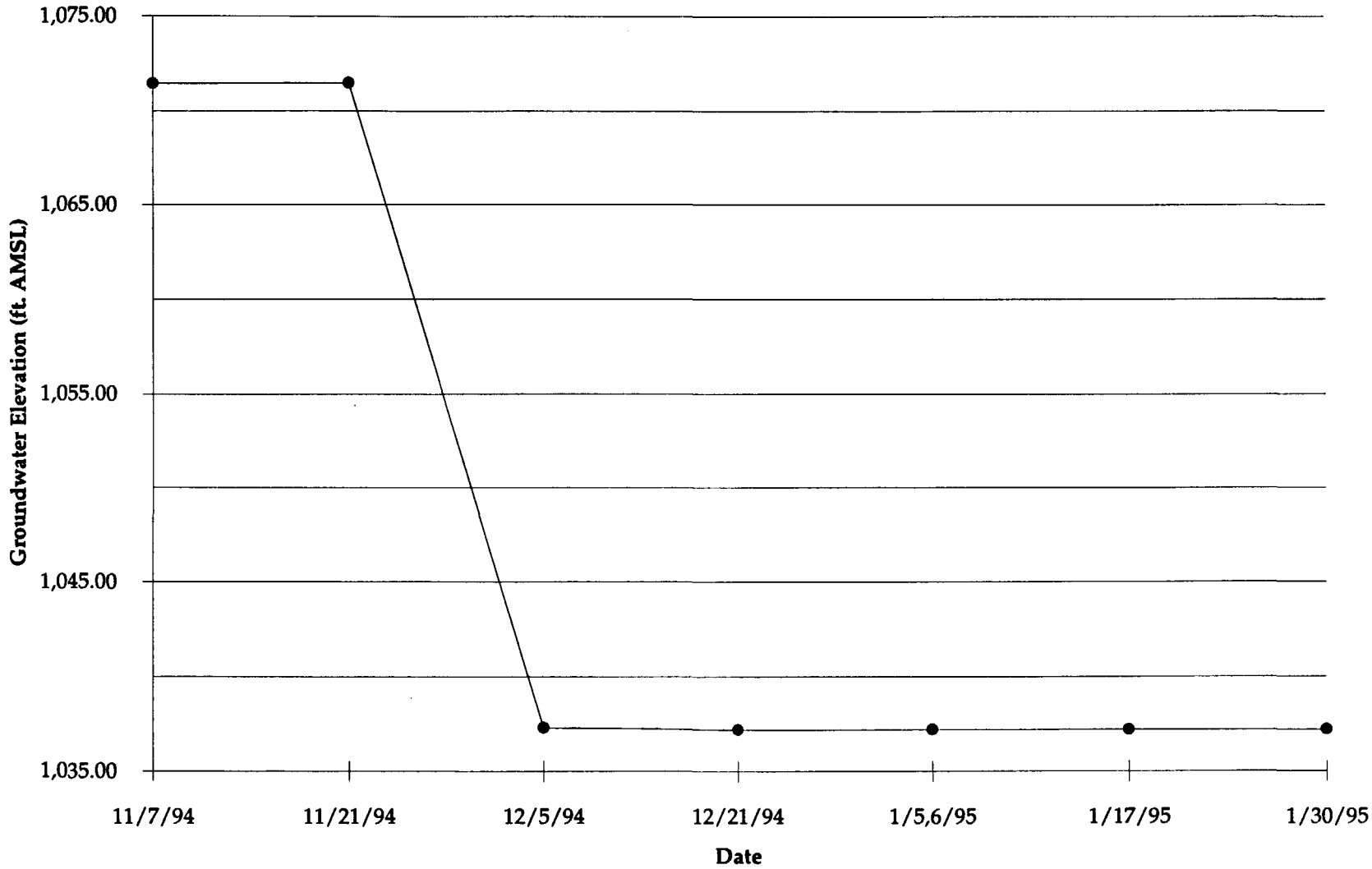
GROUNDWATER HYDROGRAPH
UPPER SHARON UNIT : POT. WELL
SUMMIT NATIONAL SUPERFUND SITE



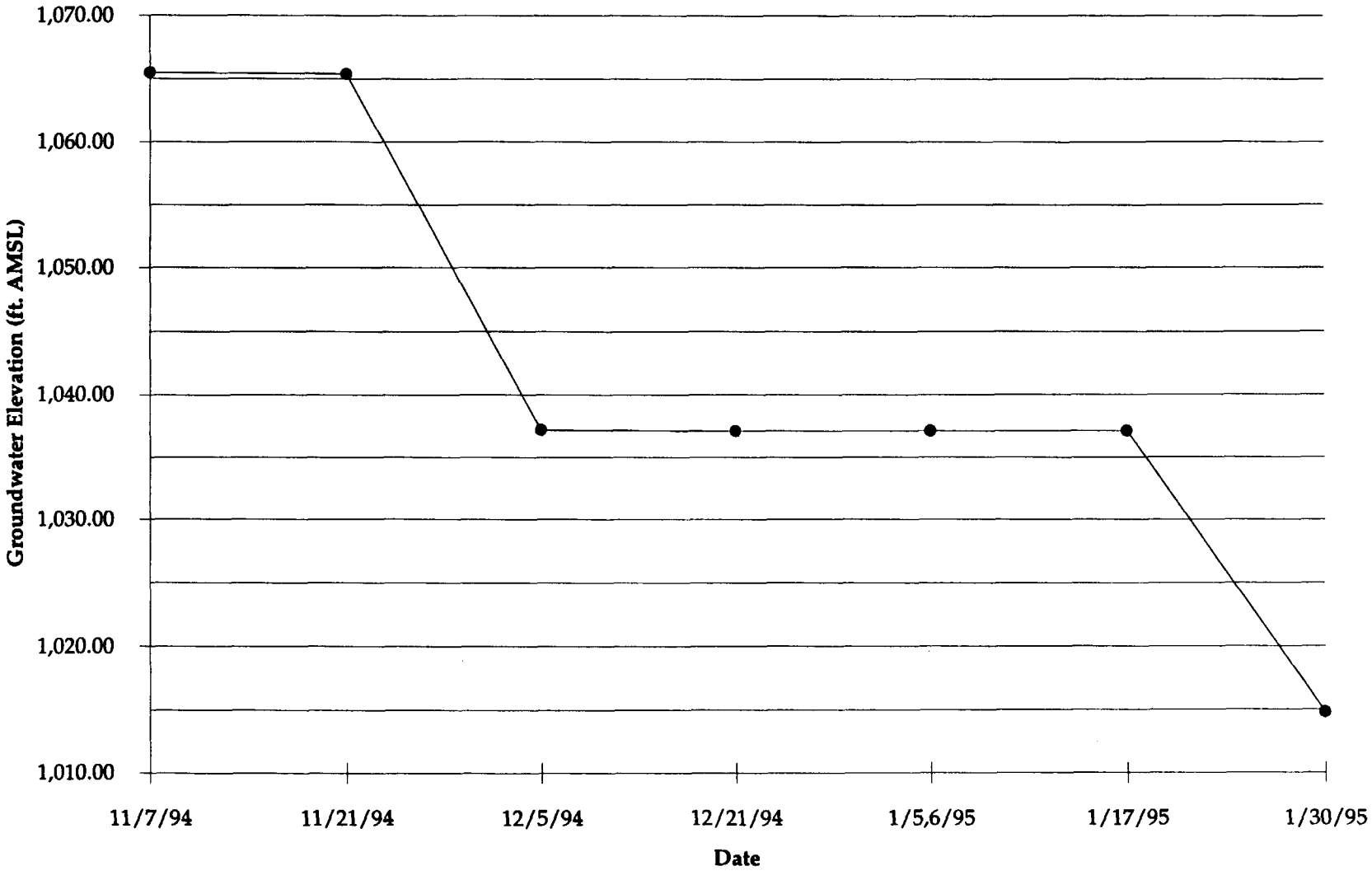
GROUNDWATER HYDROGRAPH
EXRACTION WELL : EW-1
SUMMIT NATIONAL SUPERFUND SITE



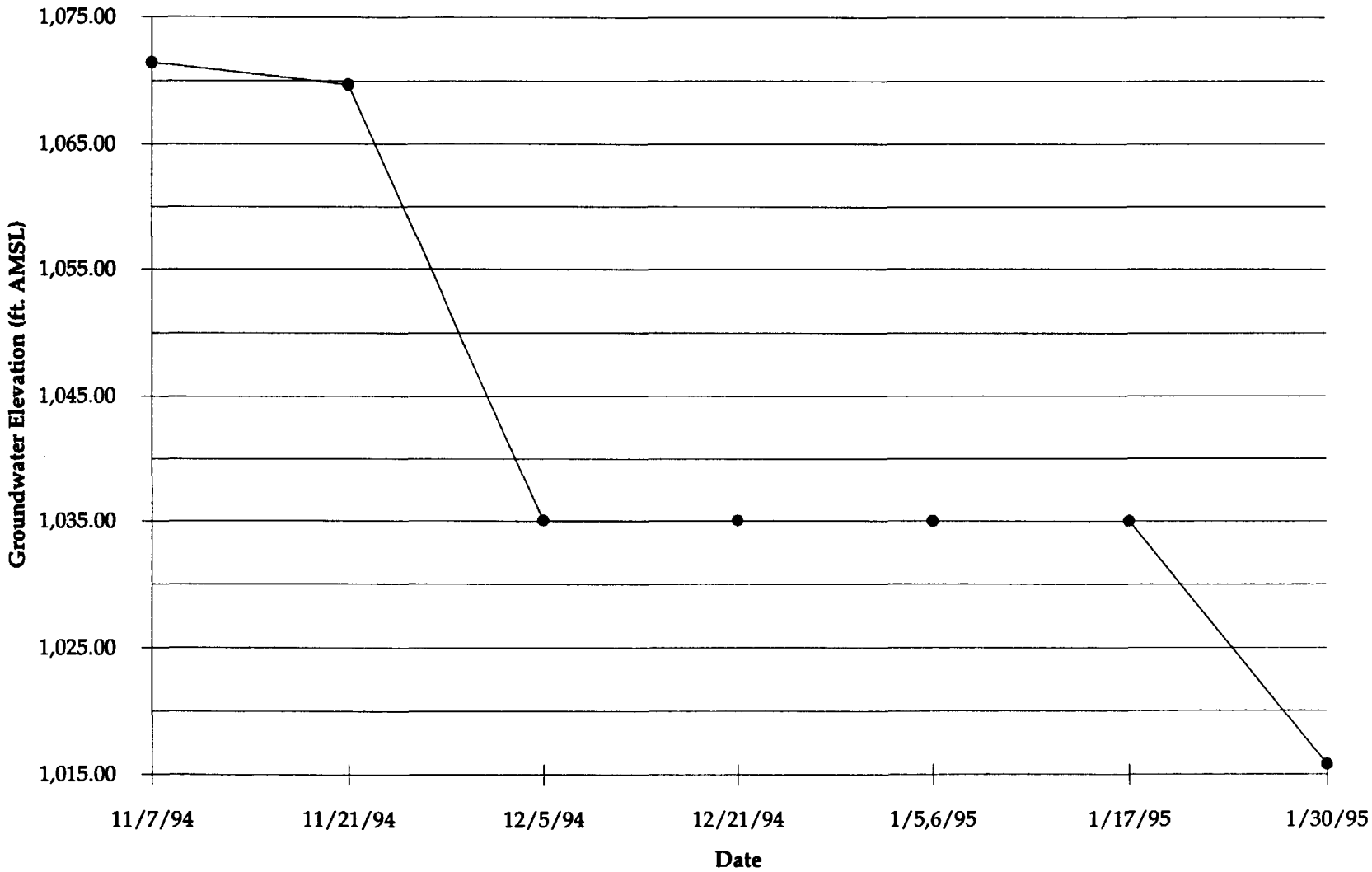
GROUNDWATER HYDROGRAPH
EXRACTION WELL : EW-2
SUMMIT NATIONAL SUPERFUND SITE



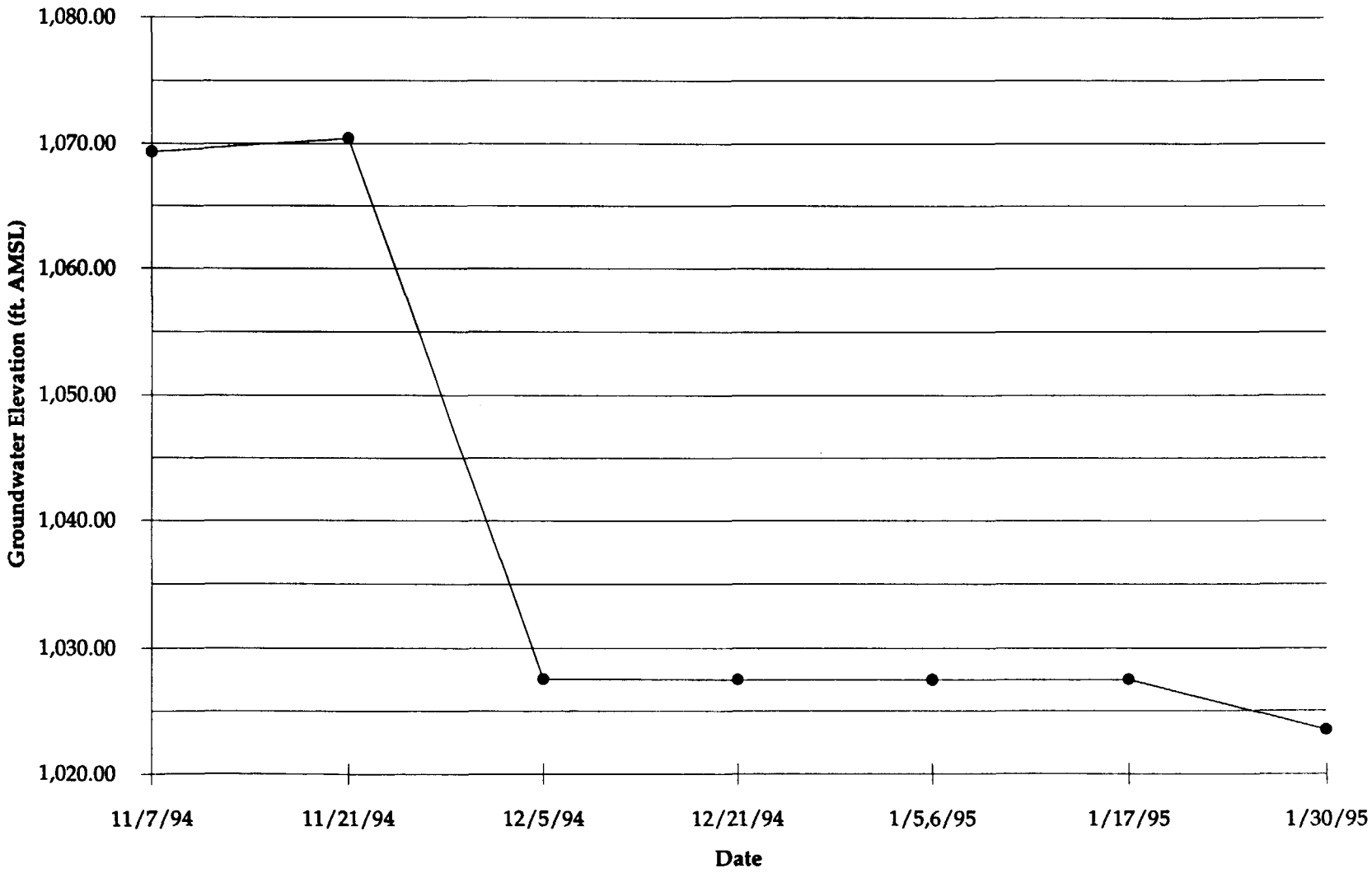
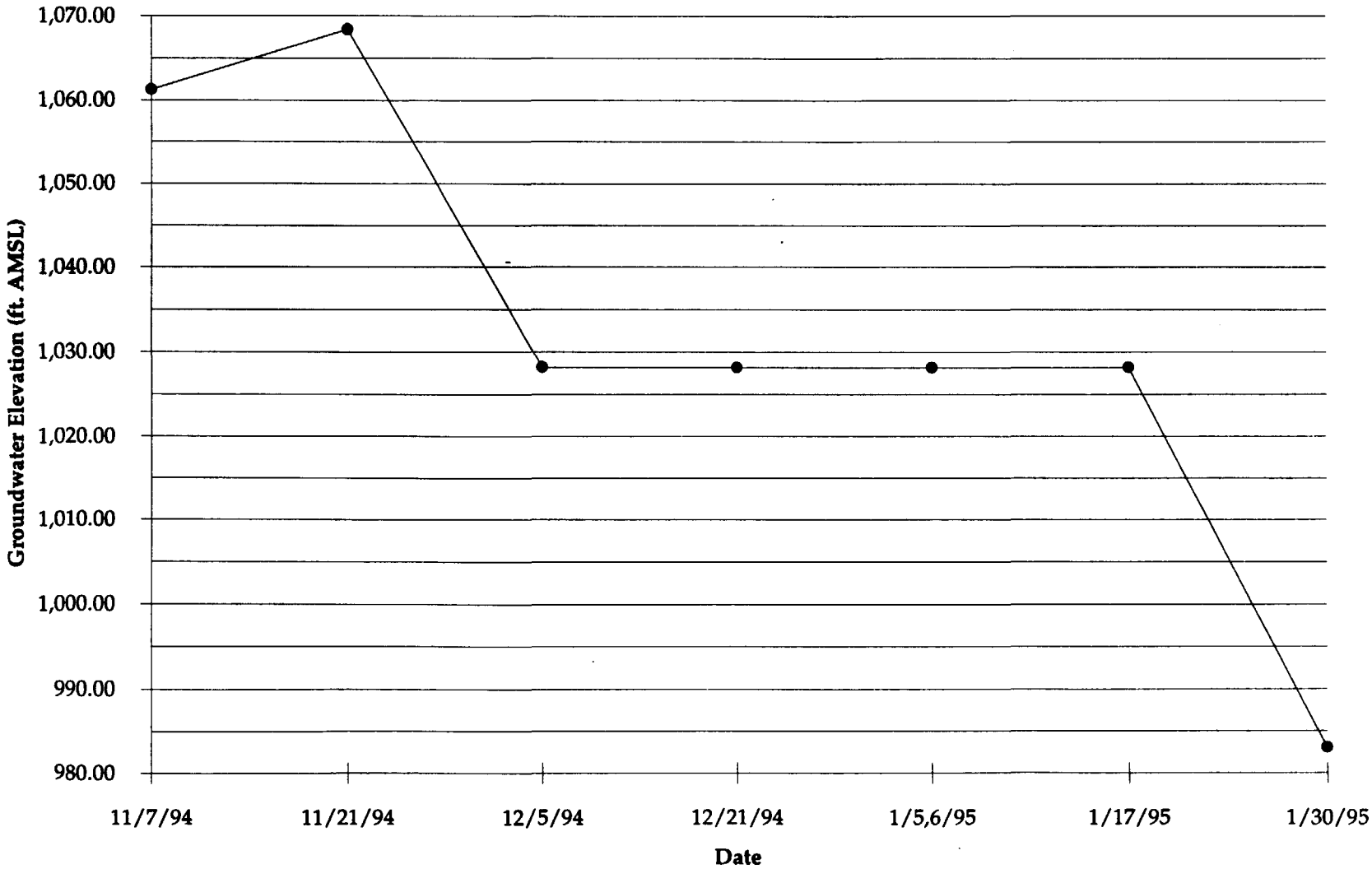
GROUNDWATER HYDROGRAPH
EXRACTION WELL : EW-3
SUMMIT NATIONAL SUPERFUND SITE



GROUNDWATER HYDROGRAPH
EXRACTION WELL : EW-4
SUMMIT NATIONAL SUPERFUND SITE



GROUNDWATER HYDROGRAPH
EXRACTION WELL : EW-5
SUMMIT NATIONAL SUPERFUND SITE



GROUNDWATER HYDROGRAPH
EXRACTION WELL : EW-6
SUMMIT NATIONAL SUPERFUND SITE