

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS



DRAFT
REMEDIAL INVESTIGATION REPORT
VOLUME IV

ROWE INDUSTRIES
GROUND-WATER
CONTAMINATION SITE

SAG HARBOR, NEW YORK

MAY 1990
(REVISED FEBRUARY 1992)

WILTON
CONNECTICUT

ST. PAUL
MINNESOTA

TAMPA
FLORIDA

FISHKILL
NEW YORK

ALBUQUERQUE
NEW MEXICO

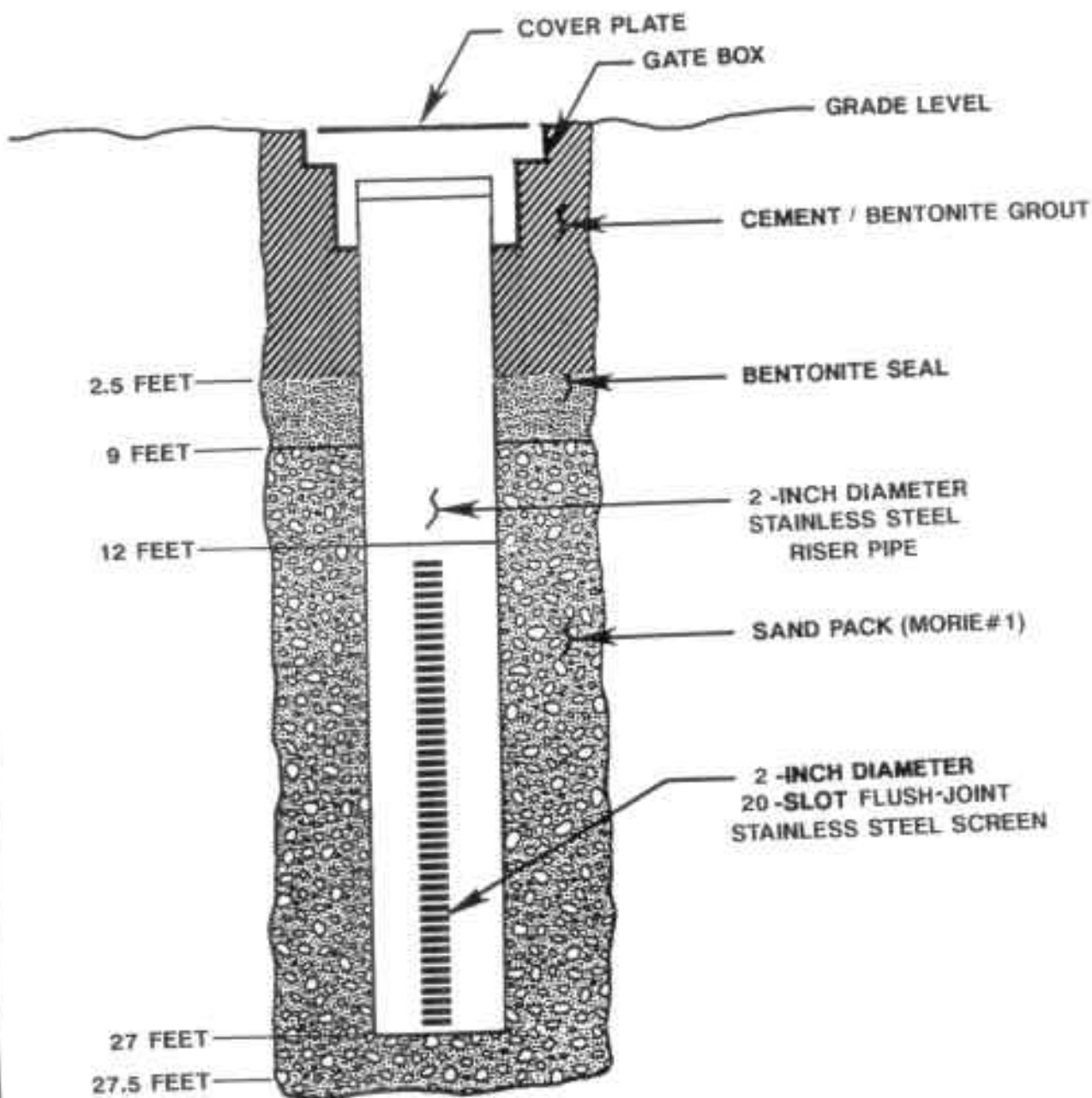
MIDLAND PARK
NEW JERSEY

EXTON
PENNSYLVANIA

SIOUX FALLS
SOUTH DAKOTA

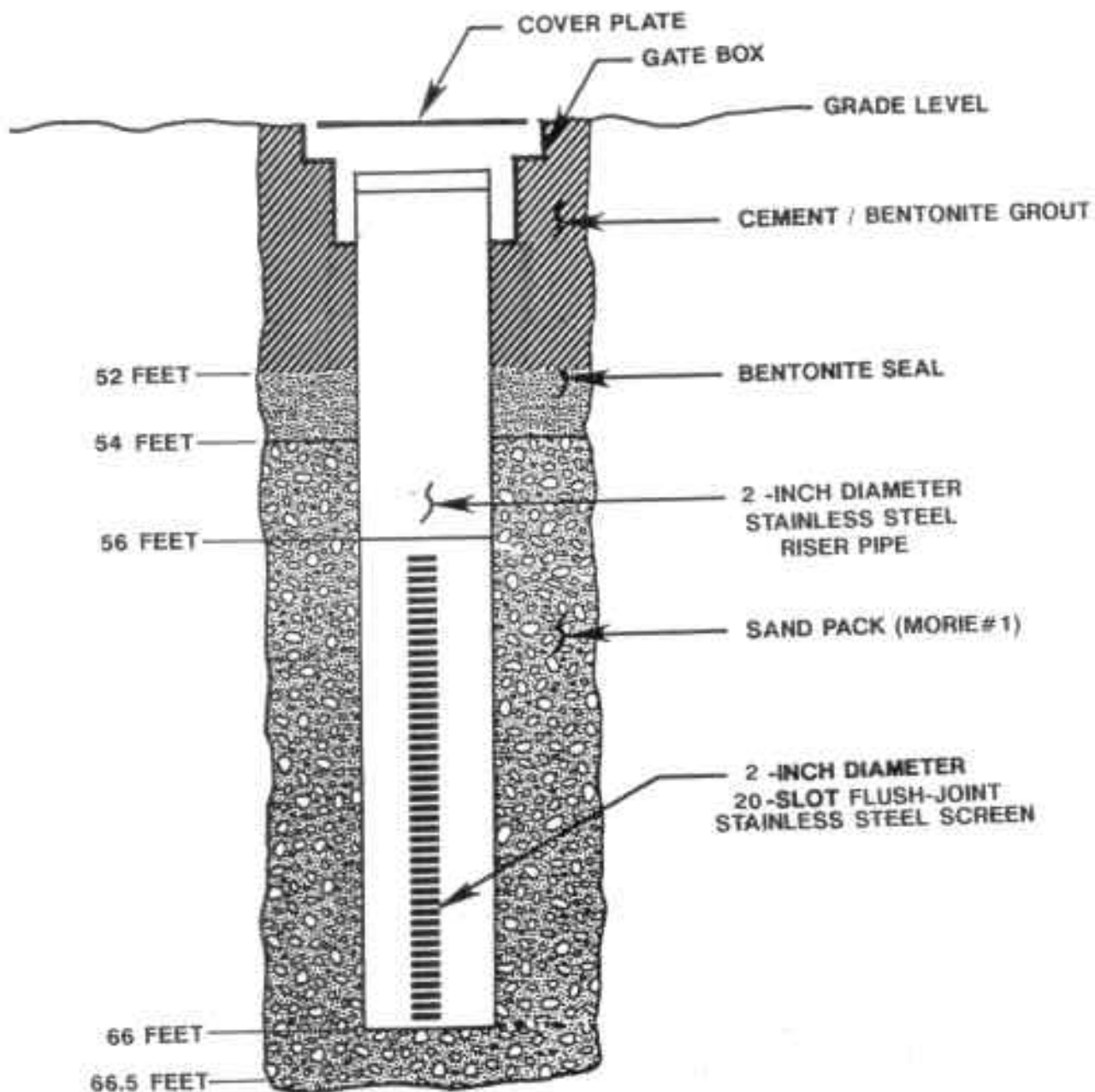
NASHUA
NEW HAMPSHIRE

APPENDIX V
Well Construction Diagrams



NOT TO SCALE

<p>NABISCO, INC. ROWE INDUSTRIES SITE SAG HARBOR, NEW YORK</p>		
<p>WELL CONSTRUCTION DETAIL FOR GINGERBREAD BAKE SHOP WELL CLUSTER MW42A</p>		
DATE	REVISED	PREPARED BY:
		LEOGETTE, BRASHBARS & CRAWFORD, INC.
		Professional Ground-Water Consultants
		72 Danbury Road
		Wilton, CT 06897
		203-762-1207
		DATE: 12/18/89
		FIGURE 1



NABISCO, INC.
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK
WELL CONSTRUCTION DETAIL FOR GINGERBREAD
BAKE SHOP WELL CLUSTER
MW42B

DATE	REVISED

PREPARED BY:

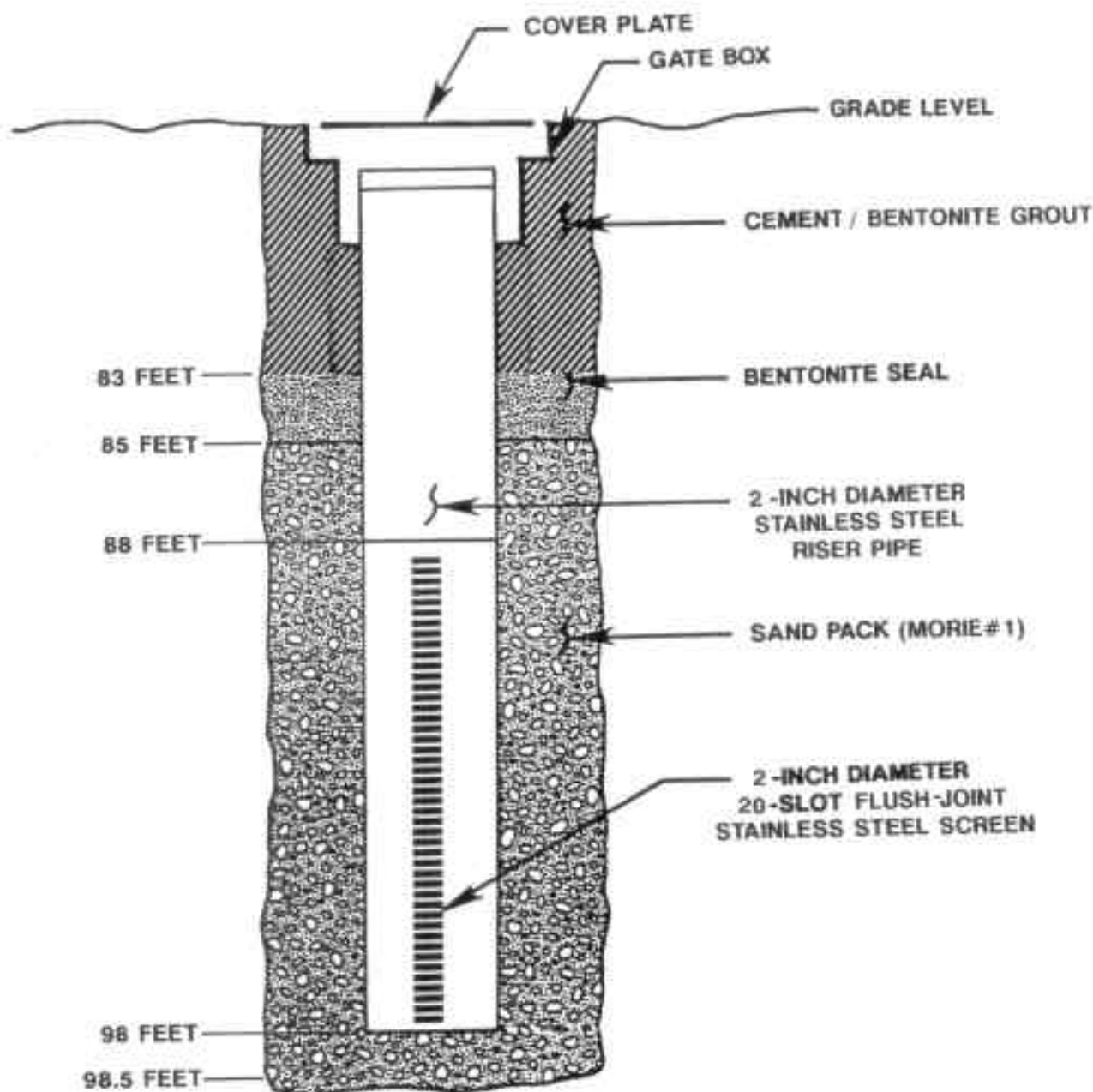


LEOCETTE, BRASHEARS &
 GRAHAM, INC.
 Professional Ground-Water Consultants
 72 Danbury Road
 Wilton, CT 06897
 203-742-1207


DATE: 12/18/89

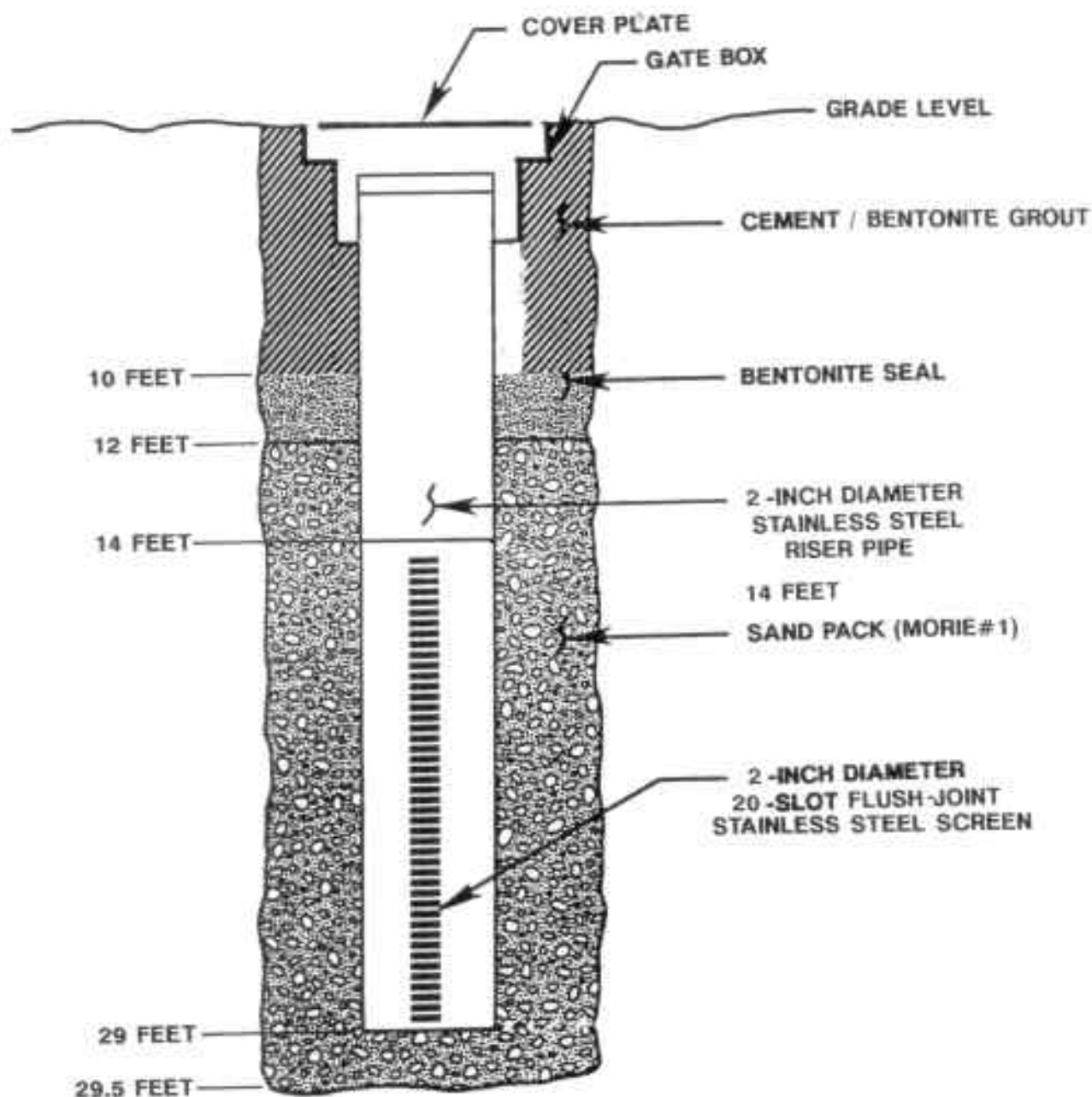
FIGURE 2

NOT TO SCALE



NOT TO SCALE

<p align="center">NABISCO, INC. ROWE INDUSTRIES SITE SAG HARBOR, NEW YORK</p>			
<p align="center">WELL CONSTRUCTION DETAIL FOR GINGERBREAD BAKE SHOP WELL CLUSTER MW42C</p>			
DATE	REVISED	PREPARED BY:	
		 <p align="right">LEGGETT, MACNISH & GRAHAM, INC. Professional Ground-Water Consultants 72 Dasher Road Wilton, CT 06097 203-762-1207</p>	
		DATE: 12/18/89	FIGURE 3



NOT TO SCALE

**NABISCO, INC.
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

**WELL CONSTRUCTION DETAIL FOR
CARROLL STREET WELL CLUSTER
MW43A**

DATE REVISED

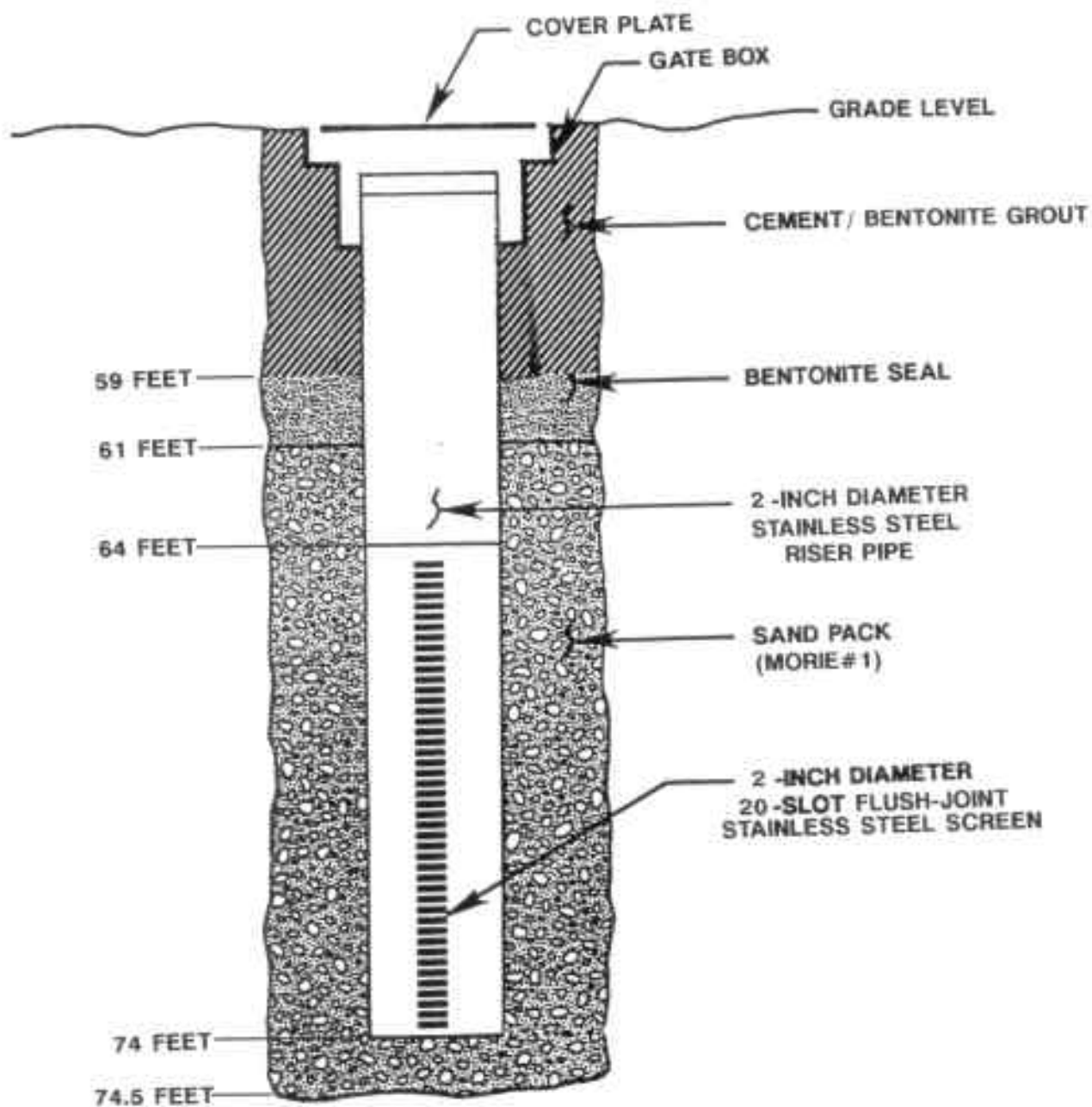
PREPARED BY:



LEOCETTE, BRASHEARS &
GRAHAM, INC.
Professional Ground-Water Consultants
73 Danbury Road
Wilton, CT 06897
203-763-1207

DATE: 12/18/89

FIGURE 4



NABISCO, INC.
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK
WELL CONSTRUCTION DETAIL FOR
CARROLL STREET WELL CLUSTER
MW43B

DATE	REVISED

PREPARED BY:

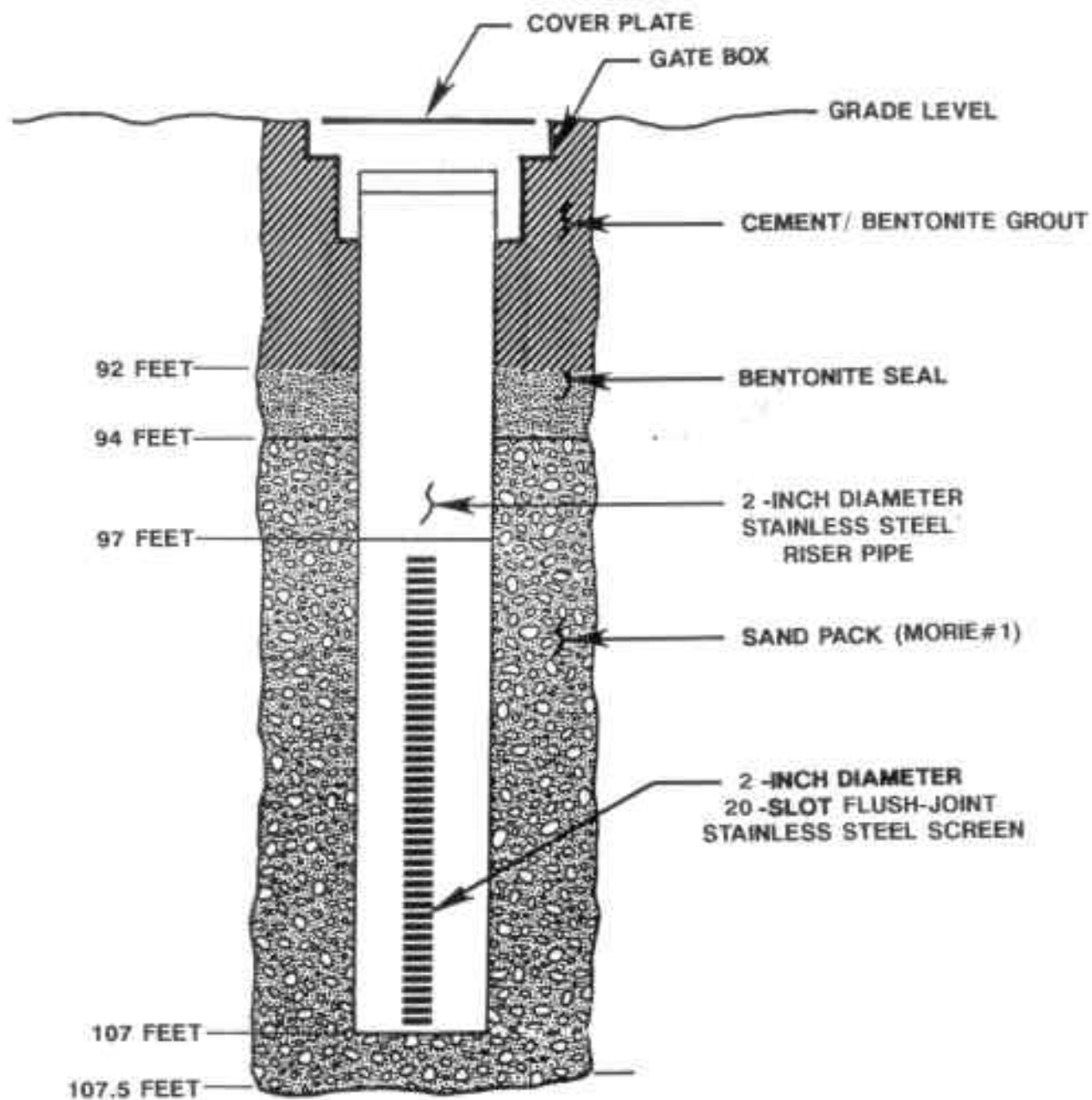


LEGGETT, BRASHEARS &
 GRAHAM, INC.
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 Wilton, CT 06897
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DATE: 12/18/89

FIGURE 5

NOT TO SCALE



**NABISCO, INC.
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK
WELL CONSTRUCTION DETAIL FOR
CARROLL STREET WELL CLUSTER
MW43C**

DATE	REVISED

PREPARED BY:



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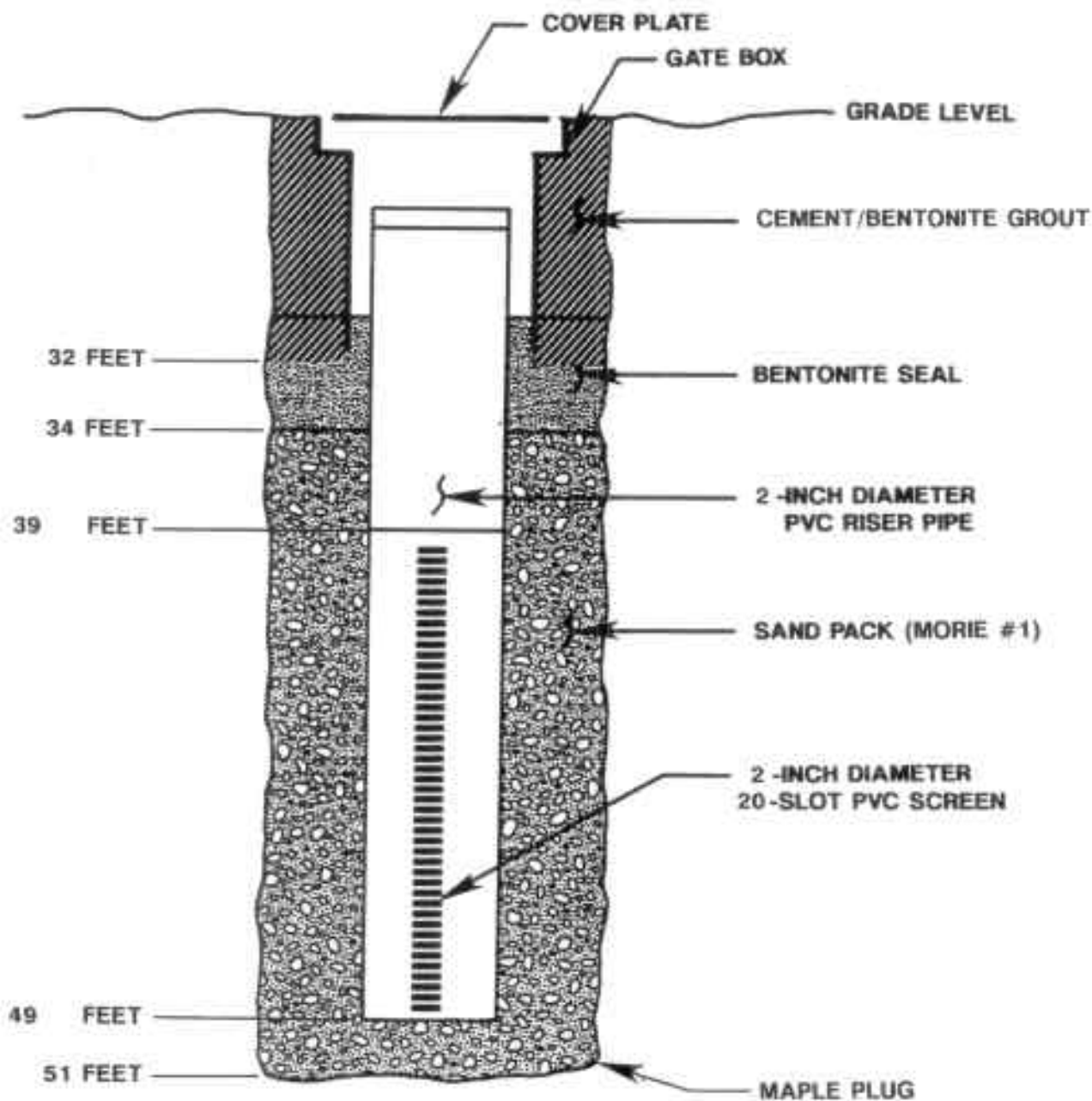
NOT TO SCALE

DATE: 12/18/89

FIGURE 6




DATE	8/20/91	FIGURE
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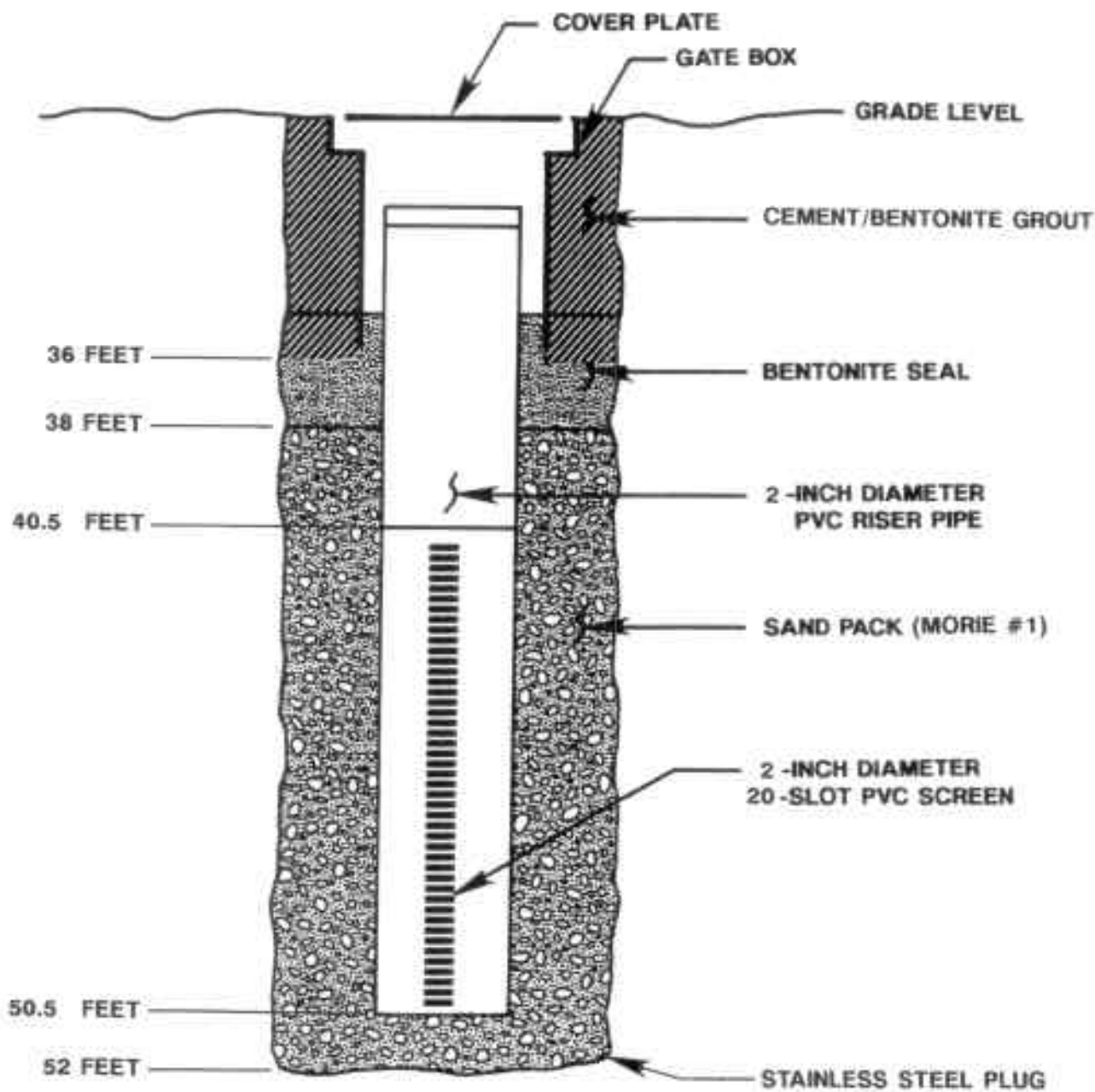
NABISCO BRANDS, INC. ROWE INDUSTRIES SITE SAG HARBOR, NEW YORK			
WELL CONSTRUCTION DETAIL FOR ONSITE WELL CLUSTER IN NORTH PARKING LOT - MW-44B			
DATE	REVISED	PREPARED BY:	LEGGETTE, BRASHEARS & GRAHAM, INC.
			Professional Ground-Water Consultants
			72 Danbury Road
			Wilton, CT 06897
			(203) 762-1207
		DATE	8/20/91
		FIGURE	



DATE	REVISED	<div>PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water Consultants 72 Danbury Road Wilton, CT 06897 (203) 762-1207</div> <div></div>	
		DATE 8/20/91	FIGURE



DATE	REVISED	PREPARED BY  LIGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water Consultants 72 Dunbury Road Wilton, CT 06897 (203) 762-1387		
		DATE	8/20/91	FIGURE

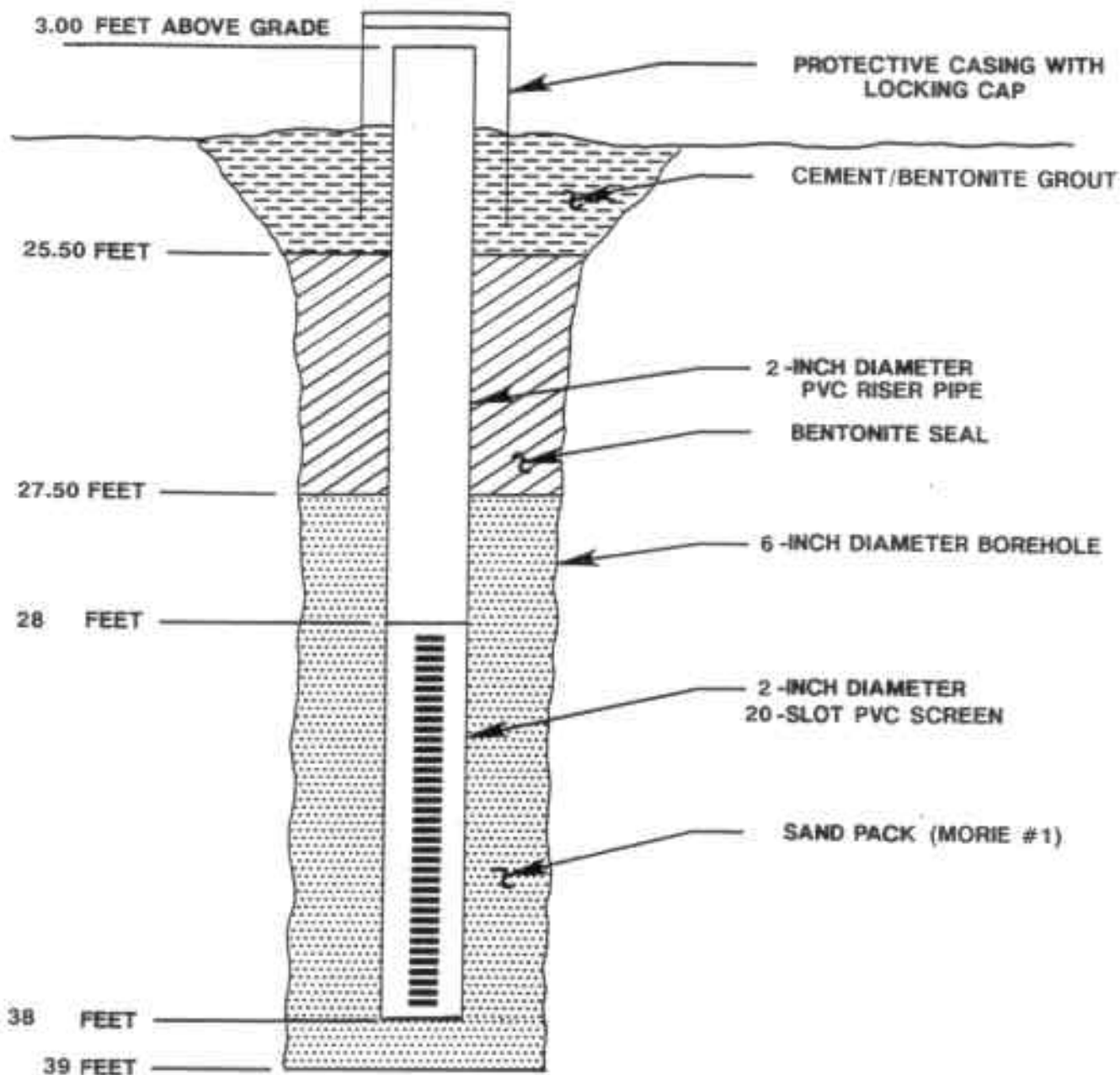


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**NABISCO BRANDS, INC.
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

**WELL CONSTRUCTION DETAIL FOR ONSITE WELL
CLUSTER SOUTHEAST OF SHI - MW-45B**

DATE	REVISED	PREPARED BY:	LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water Consultants 72 Danbury Road Wilton, CT 06897 (203) 763-1297
			
		DATE	8/20/91
		FIGURE	



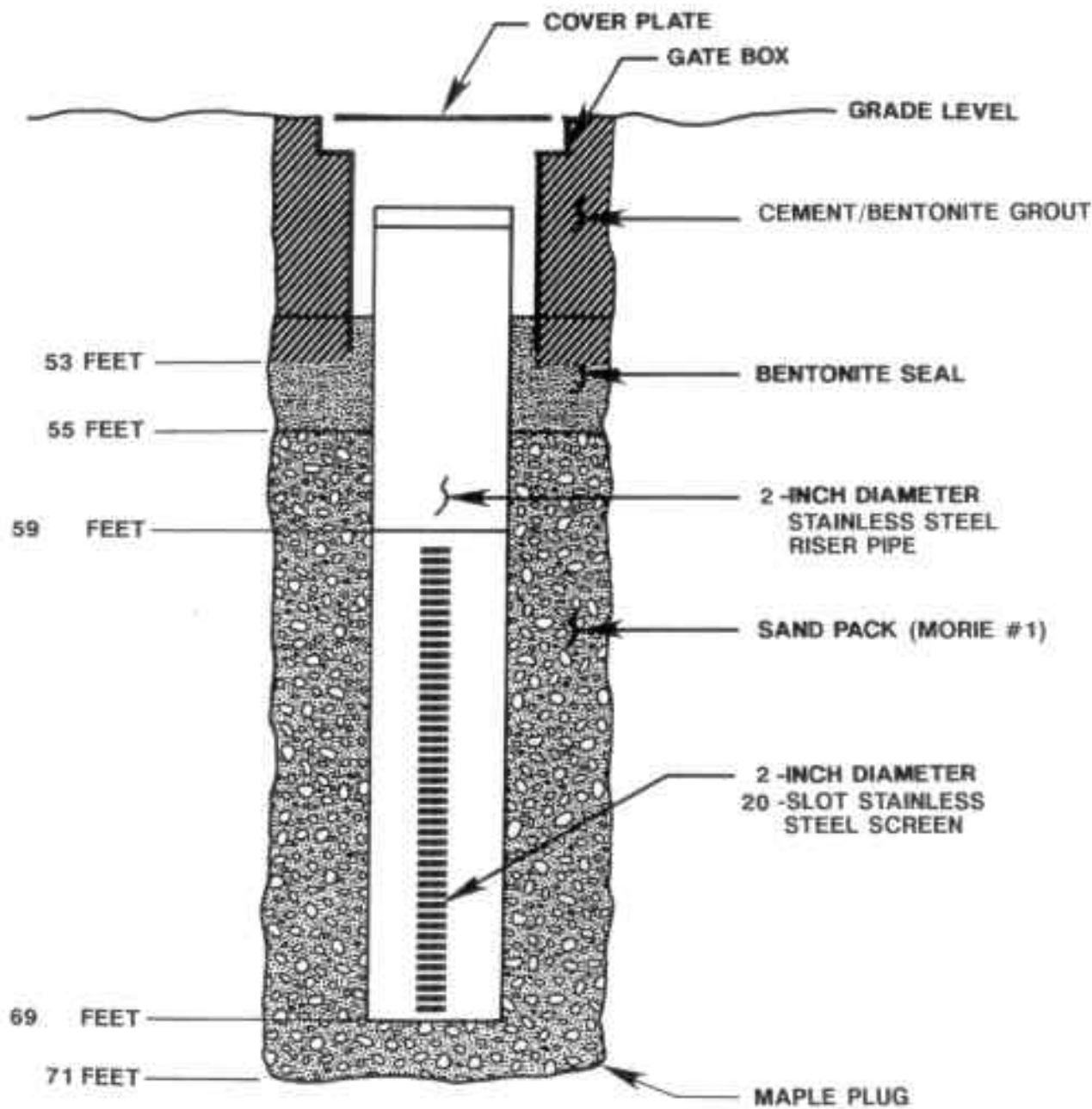
**NABISCO BRANDS, INC.
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

**WELL CONSTRUCTION DETAIL FOR WELL CLUSTER
NORTH OF DRY WELL A - MW-47B**

DATE	REVISED	PREPARED BY	LEGGETTE, BRASHEARS & GRAHAM, INC.
			Professional Ground-Water Consultants
			72 Danbury Road
			Wilton, CT 06897
			(203) 763-1307
		DATE	8/20/91
		FIGURE	



DATE	8/20/91	FIGURE
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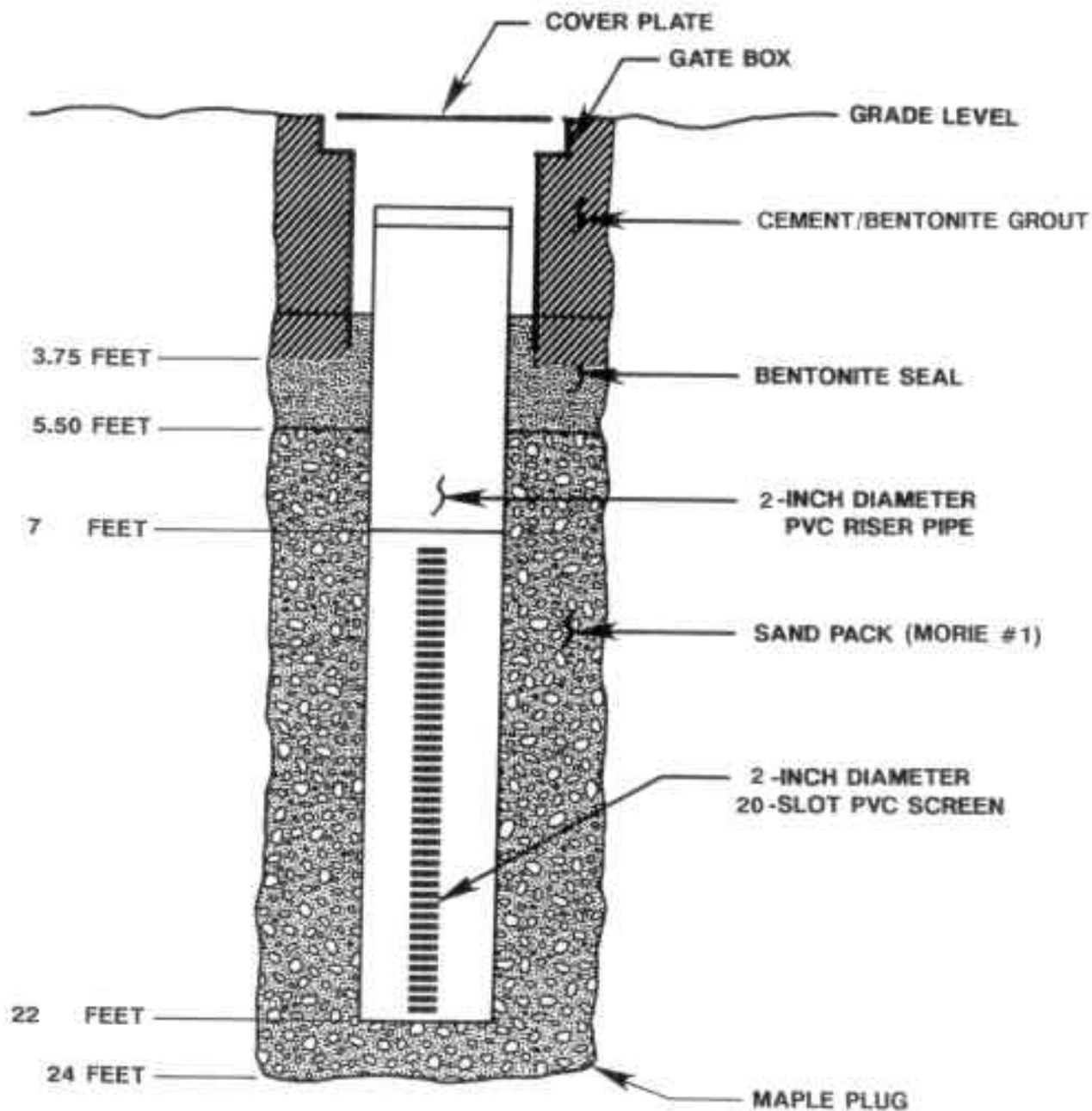


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**NABISCO BRANDS, INC.
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

**WELL CONSTRUCTION DETAIL FOR LILY POND ROAD
WELL CLUSTER - MW-488**

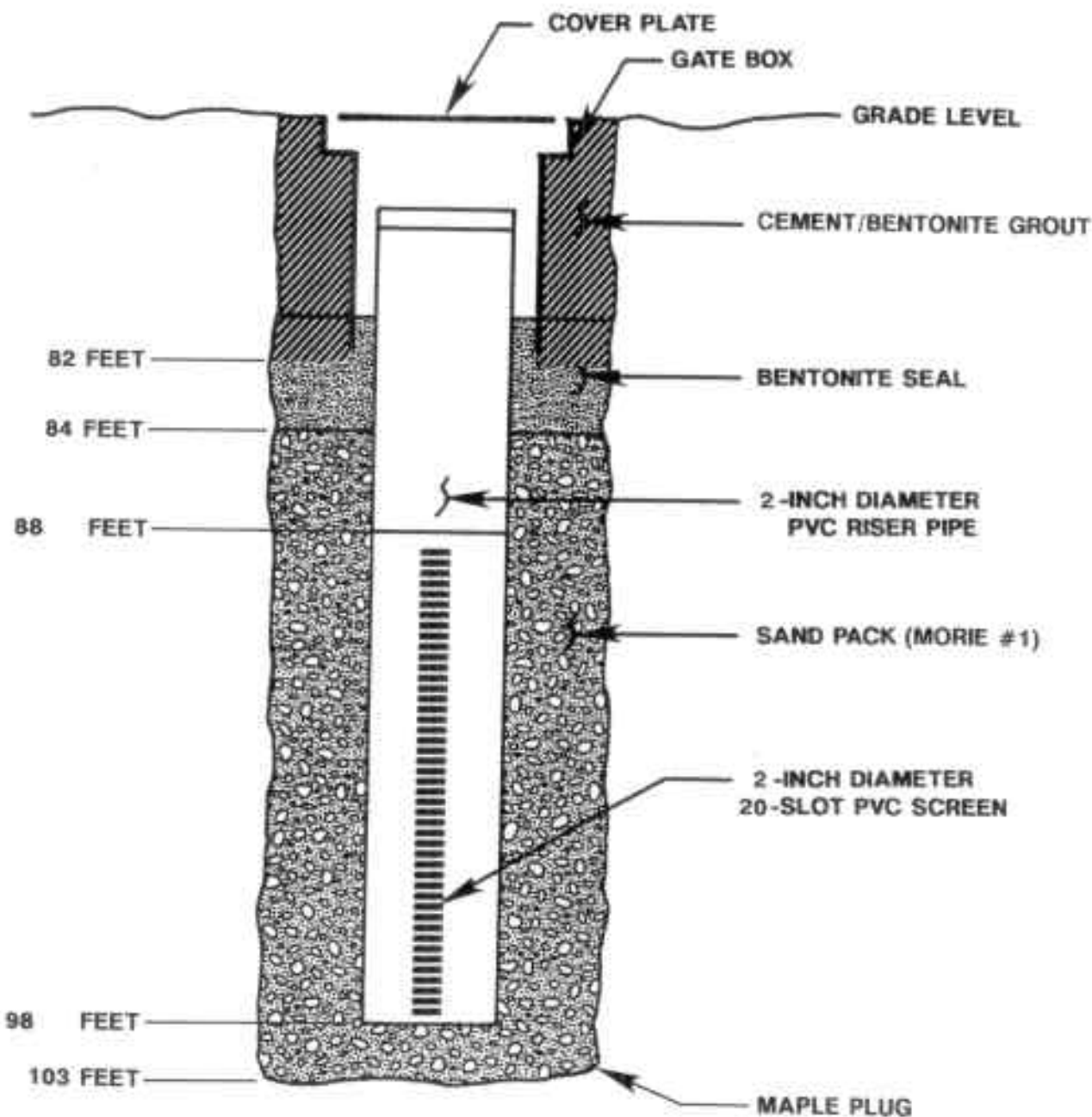
DATE	REVISED	PREPARED BY:	LEGGETTE, BRASHEARS & GRAHAM, INC.
			Professional Ground-Water Consultants
			72 Dunbury Road
			Wilton, CT 06897
			(203) 762-1207
		DATE:	8/20/91
		FIGURE	




**NABISCO BRANDS, INC.
 ROWE INDUSTRIES SITE
 SAG HARBOR, NEW YORK**

**WELL CONSTRUCTION DETAIL FOR NOYACK ROAD
 WELL CLUSTER - MW-49A**

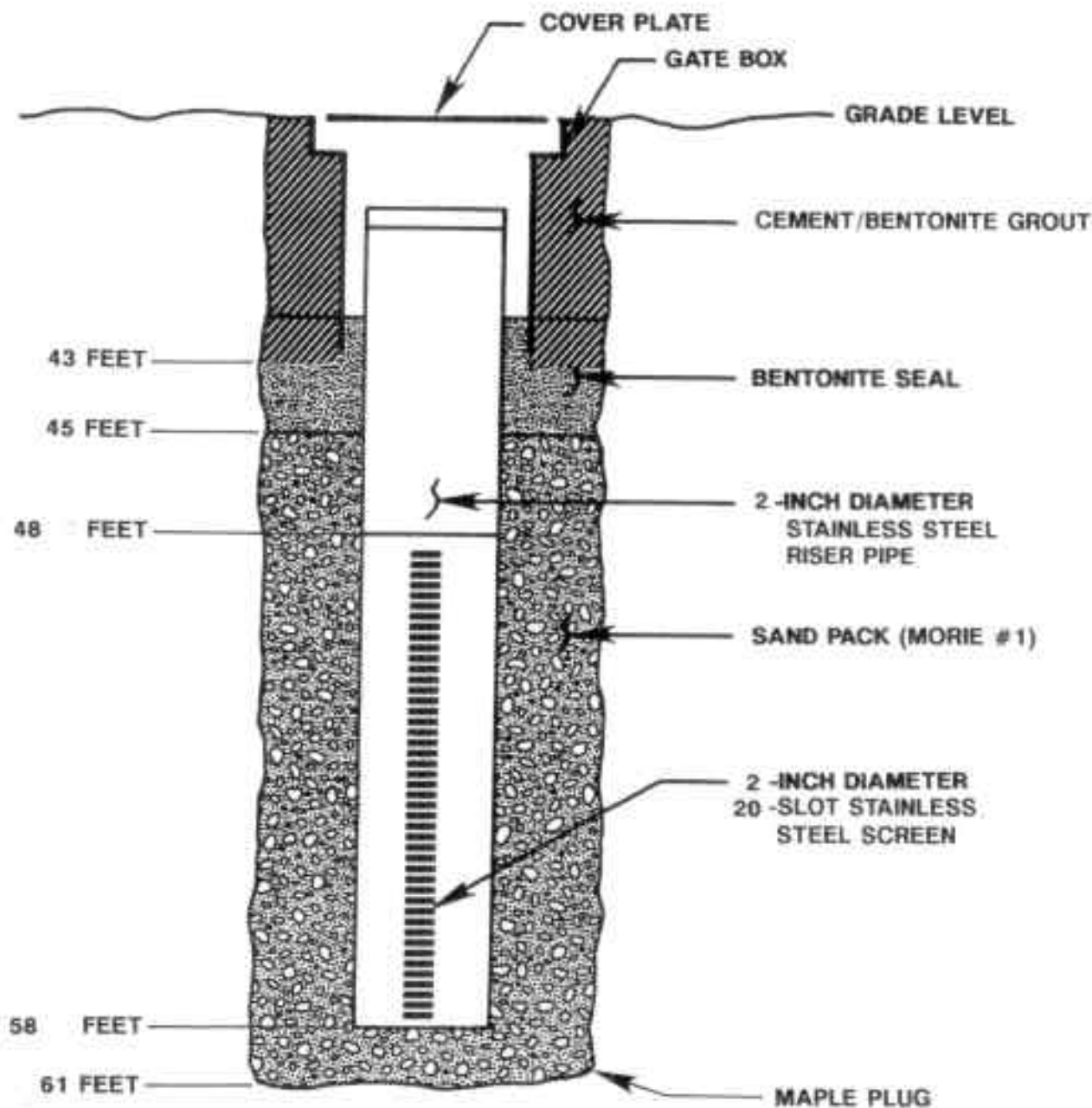
DATE	REVISED	PREPARED BY
		LEGGETTE, BRASHEARS & GRAHAM, INC.
		Professional Ground-Water Consultants
		72 Danbury Road
		Wilton, CT 06897
		(203) 763-1207
		DATE: 8/20/91
		FIGURE



NABISCO BRANDS, INC. ROWE INDUSTRIES SITE SAG HARBOR, NEW YORK			
WELL CONSTRUCTION DETAIL FOR NOYACK ROAD WELL CLUSTER - MW-49C			
DATE	REVISED	PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water Consultants 72 Danbury Road Wilton, CT 06897 (203) 763-1297	
			
		DATE: 8/20/91	FIGURE



DATE	REVISED	PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water Consultants 72 Danbury Road Wilton, CT 06897 (203) 762-1207
		
		DATE: 8/20/91
		FIGURE

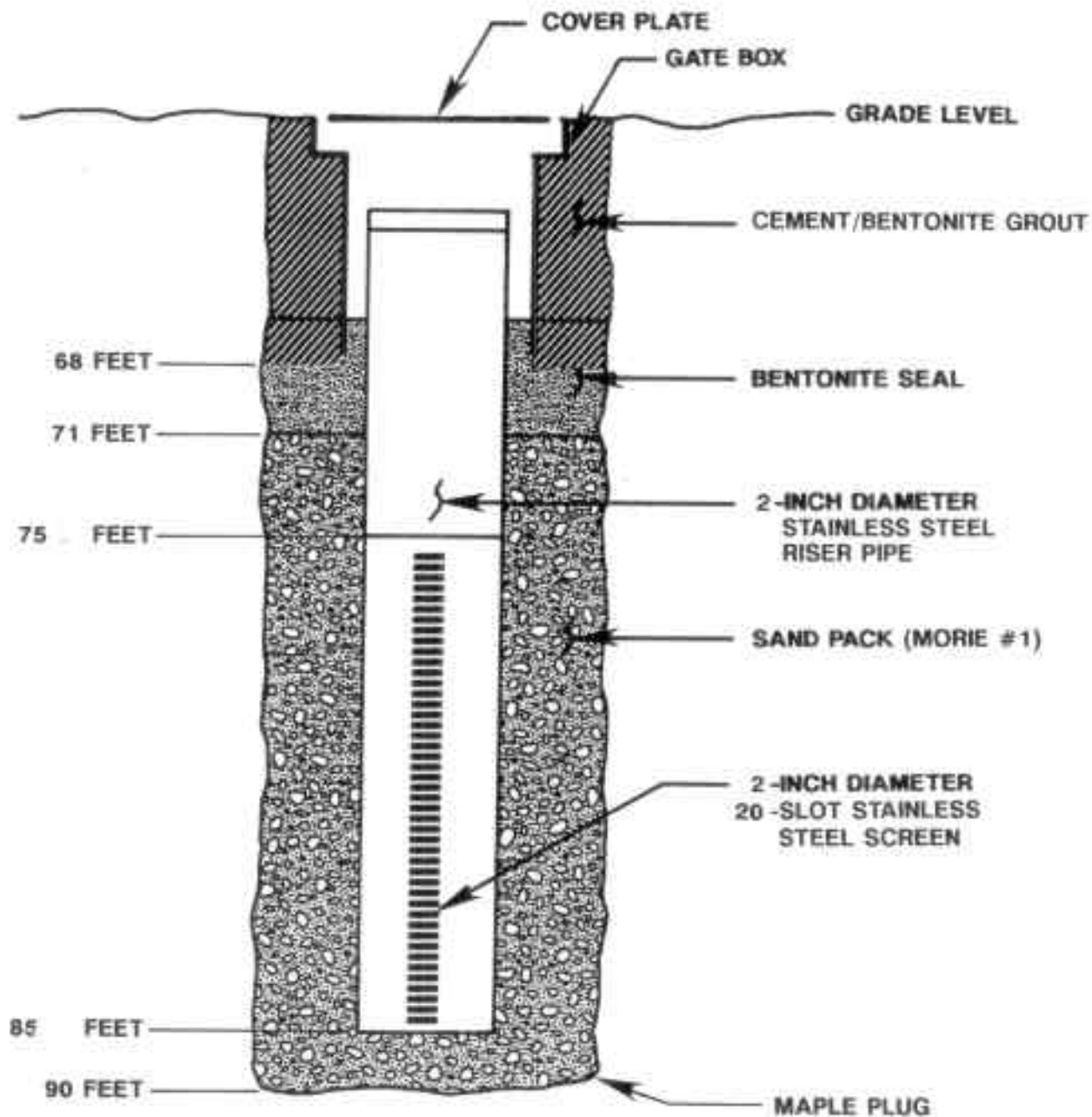


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**NABISCO BRANDS, INC.
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

**WELL CONSTRUCTION DETAIL FOR MORRIS COVE ROAD
WELL CLUSTER - MW-50B**

DATE	REVISED	PREPARED BY:	LEGGETTE, BRASHEARS & GRAHAM, INC.
			Professional Ground-Water Consultants
			72 Danbury Road
			Wilton, CT 06097
			(203) 762-1207
		DATE	8/20/91
		FIGURE	



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**NABISCO BRANDS, INC.
ROWE INDUSTRIES SITE
SAG HARBOR, NEW YORK**

**WELL CONSTRUCTION DETAIL FOR MORRIS COVE ROAD
WELL CLUSTER - MW-50C**

DATE	REVISED	PREPARED BY:	LEGGETTE, BRASHEARS & GRAHAM, INC.
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			72 Danbury Road
			Wilton, CT 06897
			(203) 762-1297
		DATE:	8/20/91
		FIGURE	

APPENDIX VI
Air Quality Study



NATLSCO

INDUSTRIAL HYGIENE REPORT

FOR

LEGGETTE, BRASHEARS & GRAHAM, INC.

AT

ROWE INDUSTRY

SAG HARBOR, NEW YORK

July 23, 1991

INDUSTRIAL HYGIENE REPORT

FOR

LEGGETTE, BRASHEARS & GRAHAM, INC.

AT

ROWE INDUSTRY

SAG HARBOR, NEW YORK

The purpose of this NATLSCO Industrial Hygiene study and report is to assist you, the client, in your responsibility to establish and maintain a loss control program to prevent illness and injury to your employees and others. NATLSCO's activities and recommendations are a supplement to, and not a substitute for, any part of your own responsibilities and activities. These NATLSCO services are based upon information supplied by client management and conditions that are readily observable, and should not be relied upon exclusively to prevent all possible illnesses, injuries or losses.

INTRODUCTION

This is the report of the Industrial Hygiene study conducted at the Rowe Industry plant in Sag Harbor, NY, on July 23, 1991. The purpose of the study was to:

Measure general area concentrations of perchloroethylene, 1,1,1-trichloroethane, trichloroethylene, and ethylene dichloride as detailed in the table in the SUMMARY OF RESULTS section of this report.

The data presented in this report represent conditions existing at this location on the day of this study. Caution must be exercised in drawing conclusions from the data contained in this report as to hazards which may exist at other times or under different circumstances.

SUMMARY OF RESULTS

Detailed results of this study may be found in the attached tables at the end of this report. Abbreviations not specifically footnoted in individual tables are defined in Appendix II - Table Abbreviations.

General area concentrations of airborne substances expressed as a percentage of the OSHA Final Rule Limit (FRL) and the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV) were as shown below. An exposure which is greater than 100% of the FRL or TLV is excessive. However, the

LEGGETTE, BRASHEARS & GRAHAM, INC.
 AT
 ROWE INDUSTRY
 SAG HARBOR, NEW YORK
 Page -2-

FRLs and TLVs are subject to change and should not be regarded as fine lines between safe and unsafe conditions.

<u>DEPARTMENT/LOCATION</u>	<u>CONTAMINANT</u>	<u>1 of</u>	
		<u>FRL</u>	<u>TLV</u>
<u>General Area Samples</u>			
Rowe Industry Bldg. on table in lamination room	perchloroethylene	<4.0	<2.0
	1,1,1-trichloroethane	<1.0	<1.0
	trichloroethylene	<2.0	<2.0
	ethylene dichloride	<9.0	<1.0
Downwind at fence at NE corner near well N-26	perchloroethylene	<4.0	<2.0
	1,1,1-trichloroethane	<1.0	<1.0
	trichloroethylene	<2.0	<2.0
	ethylene dichloride	<9.0	<1.0
Downwind at fence at SE corner on truck	perchloroethylene	<4.0	<2.0
	1,1,1-trichloroethane	<1.0	<1.0
	trichloroethylene	<2.0	<2.0
	ethylene dichloride	<9.0	<1.0
Upwind on table at fence in SW corner	perchloroethylene	<4.0	<2.0
	1,1,1-trichloroethane	<1.0	<1.0
	trichloroethylene	<2.0	<2.0
	ethylene dichloride	<8.0	<1.0

The samples were not analyzed for 1,1-dichloroethane (see Discussion).

RECOMMENDATIONS

No recommendations are submitted as a result of this study.

DISCUSSION

All samples were collected at the fence line around the perimeter of the plant except one inside the building. The weather was clear and dry.

All samples were below the detectable limit for the chlorinated hydrocarbons. There is no concentration listed for 1,1-dichloroethane (ethyldene chloride) because the NATLSCO laboratory has no desorption efficiency for this chemical. A special project would be required to determine this efficiency.

LEGGETTE, BRASHEARS & GRAHAM, INC.
AT
ROWE INDUSTRY
SAG HARBOR, NEW YORK
Page -3-

The desorption efficiencies for the remaining hydrocarbons are as follows:

100% - perchloroethylene
97% - 1,1,1-trichloroethane
94% - trichloroethylene
95% - ethylene dichloride

No chemicals were detected in the charcoal blanks.

The Federal Register for Thursday, January 19, 1989, contains a notice that OSHA has amended the standards in 1910.1000. Information concerning the changes made can be found in the attached Technical Bulletin, IH 7.33.

Respectfully submitted,



Edward M. Petruska
Certified Industrial Hygienist
Direct Dial Number: (215) 945-4543

EMP/ecw

Attachments:

Appendix I - Equipment and Study Procedures
Appendix II - Table Abbreviations

NATLSCO Technical Bulletin:

IH 7.33 OSHA Revision to 1910.1000

TABLE I

ATMOSPHERIC ORGANIC SOLVENT VAPOR CONCENTRATIONS
July 23, 1991

LEGGETTE, BRASHEARS & GRAHAM, INC.
AT
ROWE INDUSTRY
SAG HARBOR, NEW YORK

Sample Number	Location	Time Start/Stop	PER	Concentration TRI	Concentration (ppm) TCE	EDC
OSHA Final Rule Limit (TWA)			25	350	50	1
OSHA Final Rule Limit (STEL)			-	450	200	2
OSHA Final Rule Limit (Ceiling)			-	-	-	-
ACGIH TLV (TWA)			50	350	50	10
ACGIH TLV (STEL)			200	450	200	-
ACGIH TLV (Ceiling)			-	-	-	-
<u>GENERAL AREA SAMPLES</u>						
66-91-391	Rowe Industry Bldg. on table in lamination room	0730/1135	<1.0	<1.0	<1.0	<0.08
66-91-395	As above	1135/1517	<1.0	<1.0	<1.0	<0.09
66-91-392	Downwind at fence at NE corner near well N-26	0745/1140	<1.0	<1.0	<1.0	<0.08
66-91-396	As above	1140/1520	<1.0	<1.0	<1.0	<0.09
66-91-393	Downwind at fence at SE corner on truck	0747/1147	<1.0	<1.0	<1.0	<0.08
66-91-397	As above	1147/1522	<1.0	<1.0	<1.0	<0.09

TABLE I
Page -2-

ATMOSPHERIC ORGANIC SOLVENT VAPOR CONCENTRATIONS
July 23, 1991

LEGGETTE, BRASHEARS & GRAHAM, INC.
AT
ROWE INDUSTRY
SAG HARBOR, NEW YORK

Sample Number	Location	Time Start/Stop	PER	Concentration (ppm)		
				TRI	TCE	EDC
66-91-394	Upwind on table at fence in SW corner	0750/1150	<1.0	<1.0	<1.0	<0.08
66-91-398	As above	1150/1525	<1.0	<1.0	<1.0	<0.09
PER	denotes perchloroethylene (tetrachloroethylene)					
TRI	denotes 1,1,1-trichloroethane					
TCE	denotes trichloroethylene					
EDC	denotes ethylene dichloride (1,2-dichloroethane)					

APPENDIX I

EQUIPMENT AND STUDY PROCEDURES

LEGGETTE, BRASHEARS & GRAHAM, INC.
AT
ROWE INDUSTRY
SAG HARBOR, NEW YORK

Chlorinated hydrocarbon vapor samples were collected on SKC, Inc. charcoal tubes (lot number 120) using Gilian Model LFS 113D pumps. Samples were collected at a flow rate of 0.05 liter per minute for the time periods reported in Table I. Samples were analyzed by gas chromatographic techniques in accordance with accepted industrial hygiene procedures. The methods were OSHA Method 14 for the 1,1,1-trichloroethane and OSHA Method 07 Equivalent for the perchloroethylene, trichloroethylene, and ethylene dichloride.

Front and back sections of the charcoal tubes were analyzed separately.

The sample results in this report have been corrected to take into account desorption efficiencies of less than 100 percent. The desorption efficiencies used were determined experimentally in the NATLSCO Environmental Sciences Laboratory.

Sample flow rates were initially set and periodically checked during the sampling periods with a Brooks Precision Rotameter (Laboratory inventory number L-6- low flow). The rotameter is calibrated against a bubble flow meter, which is a primary standard.

Atmospheric organic vapor concentrations are expressed as parts of organic vapor per million parts of air by volume (ppm).

TLV's refer to the American Conference of Governmental Industrial Hygienists "Threshold Limit Values for Chemical Substances and Physical Agents in the Workroom Environment" 1990-91 Edition. The TLV's, according to the Preface of the above publication, refer to air concentrations of substances which "represent conditions under which it is believed that nearly all workers may be repeatedly exposed day after day without adverse effect". The ACGIH also states that their TLV's are intended to be applied only by persons trained in industrial hygiene and used in the control of occupational health hazards, and that they should not be used as fine lines between safe and unsafe conditions.

All samples for laboratory analysis collected during this study were submitted for analysis to the NATLSCO Environmental Sciences Laboratory, which is fully accredited by the American Industrial Hygiene Association.

APPENDIX II

TABLE ABBREVIATIONS

ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
AL	Action Level
ANSI	American National Standards Institute
ASHRAE	American Society of Heating, Refrigeration, and Air-conditioning Engineers
BZ	Breathing Zone (See EQUIPMENT AND STUDY PROCEDURES.)
C	Ceiling Limit: the exposure which shall not be exceeded during any part of the work day.
cfm	Cubic feet per minute
CIH	Certified Industrial Hygienist
EH	Equivalent hexane: all unidentified solvent vapors are analyzed and reported as hexane. (See EQUIPMENT AND STUDY PROCEDURES.)
E _n	Equivalent exposure to a mixture of contaminants (See EQUIPMENT AND STUDY PROCEDURES.)
ETWAE	Estimated Time-Weighted Average Exposure.
fpm	Feet per minute
FRL	Final Rule Limits: established by OSHA in the revision of 1910.1000 effective March 1, 1989.
ft ³ /m	Cubic feet per minute
IAQ	Indoor Air Quality
mg/M ³	Milligrams of contaminant per cubic meter of air
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
OSHA STEL	The 15-minute time-weighted average which shall not be exceeded at any time during a work day unless another time limit is specified. If another time period is specified, the time-weighted average exposure over that time period shall not be exceeded at any time during the working day. OSHA 1910.1000, effective March 1, 1989.

APPENDIX II
TABLE ABBREVIATIONS
Page -2-

OSHA TWA	The time-weighted average airborne concentration for any 8-hour work shift of a 40-hour work week which OSHA says shall not be exceeded.
PEL	Permissible Exposure Limit enforced by OSHA
PEL-T	Transitional limits established by OSHA in the revision of 1910.1000 effective March 1, 1989.
ppb	Parts of contaminant per billion parts of air, by volume (1 ppm = 1,000 ppb)
ppm	Parts of contaminant per million parts of air, by volume (1% = 10,000 ppm)
S	Denotes that this substance can be absorbed through the intact skin and skin exposure shall be prevented or reduced to the extent necessary through the use of appropriate personal protective equipment.
TLV	Threshold Limit Value established by the ACGIH (See EQUIPMENT AND STUDY PROCEDURES.)
TLV-C	The ACGIH Ceiling Limit which should not be exceeded during any part of the working exposure.
TLV-STEL	The concentration to which workers can be exposed continuously for a short period of time without suffering from 1) irritation, 2) chronic or irreversible tissue damage, or 3) narcosis of sufficient degree to increase the likelihood of accidental injury, impair self-rescue or materially reduce work efficiency, and provided that the daily TLV-TWA is not exceeded.
TLV-TWA	The ACGIH time-weighted average airborne concentration for a normal 8-hour workday, and a 40-hour work week, to which nearly all workers may be repeatedly exposed, day after day, without adverse effect.
TWAE	Time-Weighted Average Exposure. (See EQUIPMENT AND STUDY PROCEDURES.)
ug/M ³	Micrograms of contaminant per cubic meter of air (1 milligram = 1,000 micrograms)
<	Denotes a concentration <u>less than</u> the concentration specified. The real number is below our lower detection limit for the analytical method.
>	Denotes a number <u>greater than</u> the value listed.

NATLSCO

TECHNICAL BULLETIN

OSHA REVISION TO 1910.1000

TB-IH 7.33

The Federal Register for Thursday, January 19, 1989, contains a notice that OSHA is amending the standards in 1910.1000. This revision contains changes in the Permissible Exposure Limits (PELs) enforced by that agency. The new standard contains two limits for each of the affected substances, a Transitional Limit and a Final Rule Limit. In addition, there are provisions detailing when each of these becomes effective and how compliance may be achieved.

A. Final Rule Limits

1. Effective Date: March 1, 1989
2. Compliance Date: September 1, 1989
3. Compliance Methods:
 - a. Through December 30, 1992, any reasonable combination of engineering controls, work practices, and personal protective equipment;
 - b. After December 30, 1992, administrative or engineering controls must first be determined and implemented whenever feasible. When such controls are not feasible to achieve full compliance, protective equipment or other measures may be used.
4. Protection from skin absorption will be provided where necessary for materials with an X in the "Skin Designation" column in Table 2-1-A beginning September 1, 1989.

B. Transitional Limits

1. Effective Date: March 1, 1989 to December 30, 1992
2. Compliance Date: March 1, 1989
3. Compliance Methods: administrative or engineering controls must first be determined and implemented whenever feasible. When such controls are not feasible to achieve full compliance, protective equipment or other measures may be used.

6. An equivalent exposure, E_m , for a mixture of contaminants is required to be calculated only when there is reason to believe that the effects of the contaminants are truly additive, not in all instances of mixtures as is implied by the current wording of 1910.1000 (d)(2)(i).

This information is meant to present the highlights of the revised standard. To ensure compliance with all applicable provisions, each employer should review the standard in detail. Copies should be requested from an OSHA office or:

Superintendent of Documents
U. S. Government Printing Office
Washington, D. C. 20402

THE INFORMATION AND SUGGESTIONS CONTAINED IN THIS DISCUSSION HAVE BEEN DEVELOPED FROM SOURCES BELIEVED TO BE RELIABLE. HOWEVER, WE MAKE NO WARRANTIES EITHER EXPRESS OR IMPLIED, NOR ACCEPT ANY LEGAL RESPONSIBILITY FOR THE CORRECTNESS OR COMPLETENESS OF THIS MATERIAL OR ITS APPLICATION TO SPECIFIC FACTUAL SITUATIONS. 8/89

APPENDIX VII
Monthly Status Reports

LEGGETTE, BRASHEARS & GRAHAM, INC.
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DAVID SCOTT
LONNIE D. NORMAN
J. KEVIN POWERS

November 16, 1988

Mr. Douglas Tomchuk
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
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26 Federal Plaza, Room 747
New York, NY 10278

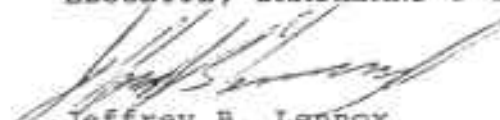
RE: Rowe Industries Ground-Water
Contamination Site

Dear Mr. Tomchuk:

Enclosed is the progress report for the above-
referenced site for October 1988. Please call me if you
have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.



Jeffrey B. Lennox
Senior Geohydrologist

JBL:dmt
Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Director, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Eugene Rosoff, Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Randall E. Hobbs, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.

88r15

ST. PAUL, MINNESOTA
612-490-1405

ALBUQUERQUE, NEW MEXICO
505-247-2000

TAMPA, FLORIDA
813-879-8177

SIOUX FALLS, SOUTH DAKOTA
605-361-6000

FISHKILL, NEW YORK
914-897-2970

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: November 15, 1988

Reporting Period: October, 1988

1. Progress Made This Reporting Period - After the signing of the Administrative Consent Order, work was started on the Project Operations Plan (POP). The Facility Coordinator was named on October 13.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The POP was submitted on November 9, 1988.
5. Upcoming Events/Activities Planned - The next task will be to review any comments on the POP and submit a revised POP within 30 days of receipt of the comments.
6. Key Staffing Changes - None.
7. Percentage Complete - Approximately 3 percent of the project was completed through the reporting period.

8. Data - No data was generated, no field work was conducted.
9. Community Contacts/Concerns - No contacts were made.

dmt
88jb12

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CHUM
MICHAEL R. BURKE
ROBERT LAMONICA

72 DANBURY ROAD
WILTON, CT 06897
203-762-1207

FAX 203-762-8062

December 14, 1988

HARRY F. OLESON
WILLIAM K. BECKMAN
DAN C. BUZZA

DOUGLAS E. SIMMONS
JOHN NASO, JR.
W. PETER BALLEAU
DAVID SCOTT
LONNIE D. NORMAN
J. KEVIN POWERS

Mr. Douglas Tomchuk
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

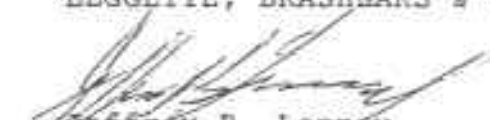
RE: Rowe Industries Ground-Water
Contamination Site

Dear Mr. Tomchuk:

Enclosed is the progress report for the above-
referenced site for November 1988. Please call me if you
have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Senior Geohydrologist

JBL:dmt
Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Director, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Eugene Rosoff, Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Randall E. Hobbs, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.

88r15

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: December 14, 1988

Reporting Period: November, 1988

1. Progress Made This Reporting Period - The Project Operations Plant (POP) was finalized in November and submitted to the EPA for review.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The POP was submitted on November 9, 1988.
5. Upcoming Events/Activities Planned - The next task will be to review any comments on the POP and submit a revised POP within 30 days of receipt of the comments. Contacts will be made with drillers for pricing and availability.
6. Key Staffing Changes - None.
7. Percentage Complete - Approximately 3 percent of the project was completed through the reporting period.

8. Data - No data was generated, no field work was conducted.
9. Community Contacts/Concerns - No contacts were made.

skd
88jb12

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL B. BURKE
ROBERT LAMONICA

72 DANBURY ROAD
WELTON, CT 06497
203-762-1207

FAX 203-762-8062

January 6, 1989

HARRY P. GLESON
WILLIAM K. BECKMAN
DAN C. RUZEA

DOUGLAS E. SIMMONS
JOHN NASO, JR.
W. PETER BALLEAU
DAVID SCOTT
LONNIE D. NORMAN
J. KEVIN POWERS

Mr. Douglas Tomchuk
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

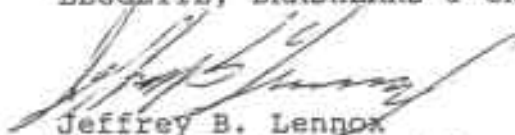
RE: Rowe Industries Ground-Water
Contamination Site

Dear Mr. Tomchuk:

Enclosed is the progress report for the above-referenced site for December 1988. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Senior Geohydrologist

JBL:dmr

Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Director, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Eugene Rosoff, Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Randall E. Hobbs, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.

88r15

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: January 5, 1989

Reporting Period: December, 1988

1. Progress Made This Reporting Period - No substantial work was conducted in December.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for November 1988 was submitted on December 14, 1988.
5. Upcoming Events/Activities Planned - The next task will be to review the comments on the POP which were received January 3, 1989 and submit a revised POP within 30 days of receipt of the comments. Contacts will be made with drillers for pricing and availability.
6. Key Staffing Changes - None.
7. Percentage Complete - Approximately 3 percent of the project was completed through the reporting period.

8. Data - No data was generated, no field work was conducted.
9. Community Contacts/Concerns - No contacts were made.

skd
88jbl2
Rowe Rpt

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA

71 DANBURY ROAD
WILTON, CT 06897
203-752-1207

FAX 203-762-8062

WILLIAM K. BECKMAN
DAN C. RUZSA

DOUGLAS E. EDMONDS
JOHN NASO, JR.
W. PETER BALLEAU
DAVID SCOTT
LONNIE D. NORMAN
I. KEVIN POWERS

February 9, 1989

Mr. Douglas Tomchuk
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

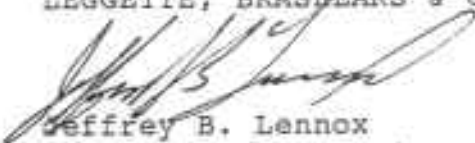
RE: Rowe Industries Ground-Water
Contamination Site

Dear Mr. Tomchuk:

Enclosed is the progress report for the above-referenced site for January 1989. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Senior Geohydrologist

JBL:cmp
Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Director, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Eugene Rosoff, Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Randall E. Hobbs, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.

88r15

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Senior Geohydrologist
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: February 9, 1989

Reporting Period: January, 1989

1. Progress Made This Reporting Period - The Environmental Protection Agency review comments were received on January 3, 1989. Most of the time put in on the project in January was for revising the POP.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for December 1988 was submitted on January 6, 1989.
5. Upcoming Events/Activities Planned - The revised POP was submitted on February 1, 1989. For February, a bid package will be sent out to drilling contractors and contacts will be made to arrange for site access for the offsite monitor wells.
6. Key Staffing Changes - Karen Billick and Eva Szigeti were added to the project team and William T. West and Edward Destefanis were removed from the team.

7. Percentage Complete - Approximately 4 percent of the project was completed through the reporting period.
8. Data - No data was generated, no field work was conducted.
9. Community Contacts/Concerns - No contacts were made.

cmp
88jb12
Rowe Rpt

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA

72 DANBURY ROAD
WILTON, CT 06897
203-762-1207

FAX 203-762-9062

March 9, 1989

WILLIAM K. HECKMAN
DAN C. BUZZA

DOUGLAS E. EDMONS
JOHN NASO, JR.
W. PETER BALLEAU
DAVID SCOTT
LONNIE D. NORMAN
J. KEVIN POWERS

Mr. Douglas Tomchuk
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

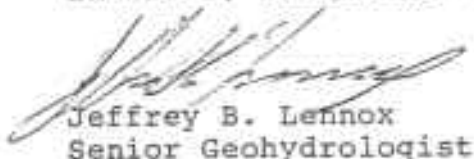
RE: Rowe Industries Ground-Water
Contamination Site

Dear Mr. Tomchuk:

Enclosed is the progress report for the above-referenced site for February 1989. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Senior Geohydrologist

JBL:cmp

Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Director, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Eugene Rosoff, Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Randall E. Hobbs, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.

88r15

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Senior Geohydrologist
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: March 9, 1989

Reporting Period: February 1989

1. Progress Made This Reporting Period - The revised POP was completed and submitted on February 1. A bid package was prepared for drilling services and general preparations continued.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for January 1989 was submitted on February 9, 1989. The revised POP was submitted on February 1, 1989.
5. Upcoming Events/Activities Planned - For March, the bid package will be sent out to drilling contractors and a site visit is scheduled to investigate property ownership for the offsite monitor wells.
6. Key Staffing Changes - Laura Hanson, The FS Engineer, was replaced by Andrew Graham.

7. Percentage Complete - Approximately 4 percent of the project was completed through the reporting period.
8. Data - No data was generated, no field work was conducted.
9. Community Contacts/Concerns - No contacts were made.

skd
88jbl2
Rowe Rpt

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA

72 DANBURY ROAD
WILTON, CT 06897
203-763-1207

FAX 203-763-8062

May 10, 1989

WILLIAM E. BECKMAN
DAN C. BUZZA

DOUGLAS E. SIMMONS
JOHN NASO, JR.
W. PETER BALLEAU
DAVID SCOTT
LONNIE D. NORMAN
J. KEVIN POWERS

Mr. Douglas Tomchuk
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

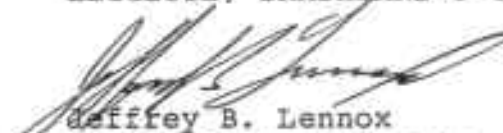
RE: Rowe Industries Ground-Water
Contamination Site

Dear Mr. Tomchuk:

Enclosed is the progress report for the above-referenced site for April 1989. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Senior Geohydrologist

JBL:cmp
Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Director, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Eugene Rosoff, Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Randall E. Hobbs, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.

88r15

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Senior Geohydrologist
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: May 10, 1989

Reporting Period: April 1989

1. Progress Made This Reporting Period - A set of comments on the POP were received from the EPA on April 24, 1989. Work was started on the responses to the comments. Letters were sent to the Town of Southampton and the owners of Gingerbread Bakeshop for obtaining permission to drill the offsite wells. Areal photographs were taken of the project area for preparation of base maps. The photographs were received in April. A site visit was conducted with an official from Southampton to review wetland concerns in the work area. Driller's bids were received and analyzed. Invitations to bid were sent to two surveying companies. Other general preparations continued.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for March 1989 was submitted on April 10, 1989.

5. Upcoming Events/Activities Planned - Revised pages of the POP will be submitted. A wetlands application will be filed with the Town of Southampton. The drilling contract will be awarded.
6. Key Staffing Changes - None
7. Percentage Complete - Approximately 4 percent of the project was completed through the reporting period.
8. Data - No data was generated.
9. Community Contacts/Concerns - None

cmp
May 10, 1989
88r15

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

E. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA

72 DANBURY ROAD
WILTON, CT 06897
203-762-1207

FAX 203-762-8062

June 9, 1989

WILLIAM E. BECKMAN
DAN C. BUZZA

DOUGLAS E. SIMMONS
JOHN NASO, JR.
W. PETER BALLEAU
DAVID SCOTT
LONNIE D. NORMAN
J. KEVIN POWERS

Ms. Vinh Cam
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

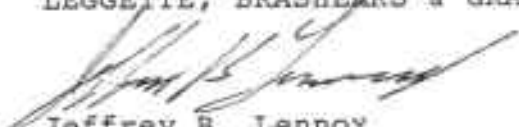
RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Cam:

Enclosed is the progress report for the above-
referenced site for May 1989. Please call me if you have
any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.



Jeffrey B. Lennox
Senior Geohydrologist

JBL:dmr

Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Eugene Rosoff, Nabisco, Inc.
Mr. Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.

89jbl1

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Senior Geohydrologist
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: June 9, 1989

Reporting Period: May 1989

1. Progress Made This Reporting Period - Revised pages of the POP were submitted on May 31. The revisions are based on the April 24, 1989 comments from the EPA. The wetlands behind the site were flagged and surveyed, and a wetlands application for the Town of Southampton was started.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for April 1989 was submitted on May 10, 1989.
5. Upcoming Events/Activities Planned - A wetlands application will be filed with the Town of Southampton. Other activities are pending the approval of the POP.
6. Key Staffing Changes - None.

7. Percentage Complete - Approximately 4 percent of the project was completed through the reporting period.
8. Data - No data was generated.
9. Community Contacts/Concerns - None.

dmt
June 9, 1989
89jb11

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA

71 DANBURY ROAD
WILTON, CT 06897
203-763-1287
FAX 203-763-8062

July 11, 1989

WILLIAM E. BECKMAN
DAN C. BUZZA

DOUGLAS E. SIMMONS
JOHN NASO, JR.
W. PETER BALLEAU
DAVID SCOTT
LONNIE D. NORMAN
I. KEVIN POWERS

Ms. Vinh Cam
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Cam:

Enclosed is the progress report for the above-referenced site for June 1989. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.

Jeffrey B. Lennox (skd)
Jeffrey B. Lennox
Senior Geohydrologist

JBL:dmr

Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Eugene Rosoff, Nabisco, Inc.
Mr. Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.

89jbl1

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Senior Geohydrologist
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: July 11, 1989

Reporting Period: June 1989

1. Progress Made This Reporting Period - The final revisions were made to the POP and final EPA approval was issued on June 28. Work continued on preparing the wetlands application for the Town of Southampton. General preparations continued.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for May 1989 was submitted on June 9, 1989.
5. Upcoming Events/Activities Planned - The wetlands application will be filed with the Town of Southampton. The brush will be cleared from the site and the geophysical survey and soil-gas survey may be started.
6. Key Staffing Changes - None.

7. Percentage Complete - Approximately 4 percent of the project was completed through the reporting period.
8. Data - No data was generated.
9. Community Contacts/Concerns - None.

skd
July 11, 1989
89jb11

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA

72 DANBURY ROAD
WILTON, CT 06897
203-762-1207

FAX 203-762-8062

August 10, 1989

WILLIAM K. BECKMAN
DAN C. BUZZA

DOUGLAS E. SIMMONS
JOHN NASO, JR.
W. PETER BALLEAU
DAVID SCOTT
LONNIE D. NORMAN
J. KEVIN POWERS

Ms. Vinh Cam
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Cam:

Enclosed is the progress report for the above-referenced site for July 1989. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Senior Geohydrologist

JBL:dmt

Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Eugene Rosoff, Nabisco, Inc.
Mr. Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.

89jbl1

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Senior Geohydrologist
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: August 10, 1989

Reporting Period: July 1989

1. Progress Made This Reporting Period - The brush in the wooded area east of the building was cleared to allow for the electromagnetic and soil-gas surveys to be performed, the wetland permit application was completed, the final POP was compiled and submitted, preparations started for the electromagnetic and soil-gas surveys, and other general preparations continued.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for June 1989 was submitted on July 11, 1989. The final POP was submitted on July 18, 1989.
5. Upcoming Events/Activities Planned - The electromagnetic and soil-gas surveys are to be performed, sampling of the disposal systems will take place and drilling of the wells or borings may start.
6. Key Staffing Changes - None.

7. Percentage Complete - Approximately 6 percent of the project was completed through the reporting period.
8. Data - No data was generated.
9. Community Contacts/Concerns - None.

skd
August 10, 1989
89jbl1

5. Upcoming Events/Activities Planned - For September, drilling of the offsite monitor wells is scheduled to start.
6. Key Staffing Changes - None.
7. Percentage Complete - Approximately 10 percent of the project was completed through the reporting period.
8. Data - Raw data for the EM and soil-gas surveys are attached, as well as copies of our daily log book and calibration book. No interpretations are provided.
9. Community Contacts/Concerns - Leggette, Brashears & Graham, Inc. will be distributing an information sheet to local residents because the Environmental Protection Agency's fact sheet will not be distributed until after the offsite drilling is initiated.

lab
September 13, 1989
89jb11

TITLE OF REPORT: _____

REPORT DATE: _____

MISCELLANEOUS:

6 copies
of
13 copies
of
Ltr

Progress Rpt Ltr
Final Lab 9/13

FOR OFFICE USE ONLY:

CLIENT: _____

JOB: _____

REPORT TYPE:

DRAFT FINAL Y N N/A

Figures Complete ☐ ☐ ☐

Tables Complete ☐ ☐ ☐

Enclosures Complete ☐ ☐ ☐

Project Manager Signoff _____

Date _____

Project Reviewer _____

Date Released _____

LEGGETTE, BRASHEARS & GRAHAM, INC.

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA

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WILTON, CT 06897
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DAN C. SUZEA

DOUGLAS E. SIMMONS
JOHN NASO, JR.
W. PETER BALLEAU
DAVID SCOTT
LONNIE D. NORMAN
J. KEVIN POWERS

October 9, 1989

Ms. Vinh Cam
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Cam:

Enclosed is the progress report for the above-referenced site for September 1989. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Senior Geohydrologist

JBL:cmp

Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Carl Volkert, Nabisco, Inc.
Mr. Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.
Mr. David D. Wright, Esq.

89jbl1

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Senior Geohydrologist
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: October 9, 1989

Reporting Period: September 1989

1. Progress Made This Reporting Period - Soil boring locations were determined based on an analysis of the electromagnetic and soil-gas survey results, the soil borings were drilled and sampled, additional soil-gas survey work was conducted, a database was developed for the previous water-quality data, the Remedial Investigation report was started and preliminary work on the feasibility study continued. The offsite wells were originally scheduled to be drilled first, however; the materials were delayed. Therefore, the soil borings were drilled first.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for August 1989 was submitted on September 13, 1989.

5. Upcoming Events/Activities Planned - For October, the offsite monitor wells will be drilled, the wells will be developed, contacts will be made with the homeowners whose wells we wish to sample and water sampling may start.
6. Key Staffing Changes - None.
7. Percentage Complete - Approximately 20 percent of the project was completed through the reporting period.
8. Data - Copies of our daily log book and calibration book are attached.
9. Community Contacts/Concerns - The Leggette, Brashears & Graham, Inc. fact sheet reported on in the status report for August, has not been distributed because the offsite monitor well drilling was delayed. The EPA fact sheet was to be distributed prior to the rescheduled start of offsite drilling which made the Leggette, Brashears & Graham, Inc. fact sheet unnecessary.

cmp
October 9, 1989
89jb11

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
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J. KEVIN POWERS

November 10, 1989

Ms. Vinh Cam
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

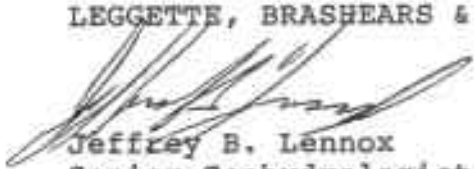
RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Cam:

Enclosed is the progress report for the above-referenced site for October 1989. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.



Jeffrey B. Lennox
Senior Geohydrologist

JBL:lab
Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Carl Volkert, Nabisco, Inc.
Mr. Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.
Mr. David D. Wright, Esq.

89jbl1

7. Percentage Complete - Approximately 50 percent of the project was completed through the reporting period.
8. Data - Copies of our daily log book and calibration book are attached.
9. Community Contacts/Concerns - Homeowner contacts for obtaining permission to sample their wells is proceeding smoothly, with all the people contacted giving permission. Some of the owners have been difficult to contact because they are only summer residents of Sag Harbor or because they are out of town for other reasons. One of the homes has an operating pump on the well, however, most have no pump or an inoperable pump.

lab
November 10, 1989
89jb11

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

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J. KEVIN POWERS

December 11, 1989

Ms. Vinh Cam
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Cam:

Enclosed is the progress report for the above-referenced site for November 1989. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.



Jeffrey B. Lennox
Senior Geohydrologist

JBL:srf
Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation

Without Enclosures:

Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Carl Volkert, Nabisco, Inc.
Mr. Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.
Mr. David D. Wright, Esq.

camltr/89-19

MIDLAND PARK, NEW JERSEY

ST. PAUL, MINNESOTA

ALBUQUERQUE, NEW MEXICO

TAMPA, FLORIDA

SIOUX FALLS, SOUTH DAKOTA

EXTON, PENNSYLVANIA

FINCHILL, NEW YORK

PROGRESS REPORT

Site Name: Rowe Industries
Ground-water Contamination Site

Prepared By: Jeffrey B. Lennox, Senior Geohydrologist
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: December 11, 1989

Reporting Period: November 1989

1. Progress Made This Reporting Period - Development of the new monitor wells and redevelopment of the old monitor wells was completed; all the monitor wells were sampled; the stream, bay and pond sediment and water sampling was performed; the dry well sludge was sampled; the monitor wells were surveyed; work on the feasibility study continued; and some of the laboratory results were reviewed and tabulated.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for October 1989 was submitted on November 10, 1989.
5. Upcoming Events/Activities Planned - For December, the homeowner wells will be sampled. Office work will include review of laboratory data and work on the Remedial Investigation report, feasibility study and the ground-water contaminant transport model.
6. Key Staffing Changes - None.

7. Percentage Complete - Approximately 70 percent of the project was completed through the reporting period.
8. Data - Copies of our daily log book and calibration book are attached.
9. Community Contacts/Concerns - Final preparations were made for sampling the private wells. The homeowners have been very cooperative. A contractor was hired to install temporary pumps for most of the wells.

srf
December 11, 1989
camltr/89-19

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA

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January 10, 1990

Ms. Vinh Cam
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

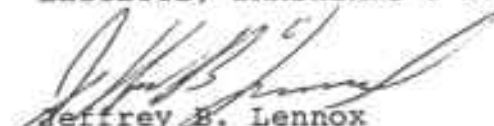
RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Cam:

Enclosed is the progress report for the above-referenced site for December 1989. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Associate

JBL:lab
Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Mr. Carl Volkert, Nabisco, Inc.
Without Enclosure:
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.
Mr. David D. Wright, Esq.

89jb11

MIDLAND PARK, NEW JERSEY

ST. PAUL, MINNESOTA

ALBUQUERQUE, NEW MEXICO

TAMPA, FLORIDA

SIOUX FALLS, SOUTH DAKOTA

EXTON, PENNSYLVANIA

PLISBELL, NEW YORK

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: January 10, 1990

Reporting Period: December 1989

1. Progress Made This Reporting Period - The homeowner wells were sampled, laboratory results were reviewed and tabulated, sections of the Remedial Investigation report were written, and work continued on the feasibility study and contaminant transport model.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for November 1989 was submitted on December 11, 1989.
5. Upcoming Events/Activities Planned - For January, the second round of sampling of the onsite monitor wells and new offsite well clusters will take place, if the first round laboratory results are received. Office work will include review of laboratory data and work on the Remedial Investigation report, feasibility study and the ground-water contaminant transport model.
6. Key Staffing Changes - None.

7. Percentage Complete - Approximately 75 percent of the project was completed through the reporting period.
8. Data - Copies of our daily log book and calibration book are attached.
9. Community Contacts/Concerns - Sampling of the private wells was smooth with excellent cooperation from the homeowners.

lab
January 10, 1990
89jbl1

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
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FRANK H. CRUM
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W. PETER BALLEAU
DAVID SCOTT
LONGUE D. NORMAN
JEFFREY B. LENNOX
KEVIN J. MILLER
FRANK J. CRITCHELL

February 12, 1990

Ms. Vinh Cam
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Cam:

Enclosed is the progress report for the above-
referenced site for January 1990. Please call me if you
have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.

Jeffrey B. Lennox (Lab)
Jeffrey B. Lennox
Associate

JBL:lab
Enclosure

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Mr. Carl Volkert, Nabisco, Inc.
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.
Mr. David D. Wright, Esq.

89jbl2

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: February 12, 1990

Reporting Period: January 1990

1. Progress Made This Reporting Period - Work continued on model development; review of water-quality laboratory results continued; work on the text of the R. I. report continued; and preparations were made for the second round of ground-water sampling.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for December 1989 was submitted on January 10, 1990.
5. Upcoming Events/Activities Planned - For February, the second round of sampling of the onsite monitor wells and new offsite well clusters will take place. Office work will include review of laboratory data and work on the Remedial Investigation report, feasibility study and the ground-water contaminant transport model.
6. Key Staffing Changes - None.

7. Percentage Complete - Approximately 78 percent of the project was completed through the reporting period.
8. Data - No field work was conducted in January.
9. Community Contacts/Concerns - None

lab
February 12, 1990
89jbl2

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA

71 DANBURY ROAD
WILTON, CT 06897
203-762-1207
FAX 203-762-8062

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W. PETER BALLEAU
DAVID SCOTT
LONNIE D. NORMAN
JEFFREY B. LENNOX
KEVIN J. MELLER
FRANK J. GETCHELL

March 12, 1990

Ms. Vinh Cam
Emergency and Remedial Response Division
U. S. Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

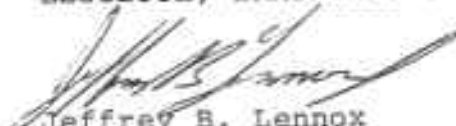
RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Cam:

Enclosed is the progress report for the above-referenced site for February 1990. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Associate

JBL:lab

Enclosures

cc: Rowe Site Attorney, U. S. Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Mr. Carl Volkert, Nabisco, Inc.
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Robert J. Schuttler, Pilko & Associates, Inc.
Mr. David D. Wright, Esq.

89jbl2

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: March 12, 1990

Reporting Period: February 1990

1. Progress Made This Reporting Period - Work continued on model development; review of water-quality laboratory results continued; work on the text of the R. I. report continued; the second round of ground-water sampling was performed; permeability tests of MW-1 through MW-6 (the six new wells) were performed; two rounds of water-level measurements were conducted and preliminary work on the feasibility study continued.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for January 1989 was submitted on February 12, 1990.
5. Upcoming Events/Activities Planned - For March, office work will include review of laboratory data and preparation of the Remedial Investigation report, feasibility study and the ground-water contaminant transport model. No field work is scheduled.

6. Key Staffing Changes - None.
7. Percentage Complete - Approximately 85 percent of the project was completed through the reporting period.
8. Data - Copies of the calibration book and daily log are attached.
9. Community Contacts/Concerns - None

lab
March 12, 1990
89jb12

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
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JEFFREY B. LENNOX
KEVIN J. MILLER
FRANK J. GETCHELL

April 16, 1990

Ms. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

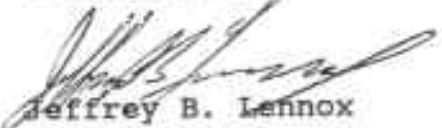
Re: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Cam:

Enclosed is the progress report for the above-referenced site for March 1990. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Associate

JBL:kaf

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Mr. Carl Volkert, Nabisco, Inc.
Ms. Ilene P Karpf, Nabisco, Inc.
Mr. Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Jim W. Tapp, Jr., Pilko & Associates, Inc.
Mr. David D. Wright, Esq.

roewind.ltr/90-7

MEDLAND PARK, NEW JERSEY

ST. PAUL, MINNESOTA

ALBUQUERQUE, NEW MEXICO

TAMPA, FLORIDA

SIOUX FALLS, SOUTH DAKOTA

EXTON, PENNSYLVANIA

NASHUA, NEW HAMPSHIRE

FISHKILL, NEW YORK

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: April 16, 1990

Reporting Period: March 1990

1. Progress Made This Reporting Period - Work continued on model development; review of water-quality laboratory results continued; work on the text of the R.I. Report continued; data validation results were reviewed; the data base for laboratory results was worked on; and preliminary work on the feasibility study continued.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for January 1990 was submitted on March 12, 1990.
5. Upcoming Events/Activities Planned - For April, office work will include final review of laboratory data and final preparation of the draft R.I. Report, and work will continue on the feasibility study and the ground-water contaminant transport model. A round of water level measurements will be performed.
6. Key Staffing Changes - None.
7. Percentage Complete - Approximately 88 percent of the project was completed through the reporting period.
8. Data - No field work was performed.
9. Community Contacts/Concerns - None.

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

B. G. SLAYBACK
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MICHAEL R. BURKE
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KEVIN J. MILLER
FRANK I. GETCHELL

May 10, 1990

Ms. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

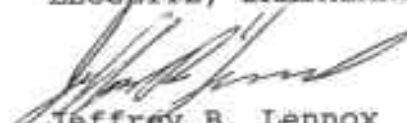
RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Cam:

Enclosed is the progress report for the above-referenced site for April 1990. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.



Jeffrey B. Lennox
Associate

JBL:srf

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Mr. Carl Volkert, Nabisco, Inc.
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Jim W. Tapp, Jr., Pilko & Associates, Inc.
Mr. David D. Wright, Esq.

roweind/90-11

MIDLAND PARK, NEW JERSEY

ST. PAUL, MINNESOTA

ALBUQUERQUE, NEW MEXICO

TAMPA, FLORIDA

SIOUX FALLS, SOUTH DAKOTA

EXTON, PENNSYLVANIA

NASHUA, NEW HAMPSHIRE

PSIDOLL, NEW YORK

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: May 10, 1990

Reporting Period: April 1990

1. Progress Made This Reporting Period - Work continued on model development; review of water-quality laboratory results continued; work on the text of the RI report continued; data validation results were reviewed; the data base for laboratory results was worked on; preliminary work on the feasibility study continued; and a round of water-level measurements was performed.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for March 1990 was submitted on April 16, 1990.
5. Upcoming Events/Activities Planned - For May, office work will include final review of laboratory data, final preparation of the draft RI report, the RI report will be submitted to the EPA; and work will continue on the feasibility study and the ground-water contaminant transport model. A round of water-level measurements will be performed.
6. Key Staffing Changes - None.
7. Percentage Complete - Approximately 90 percent of the project was completed through the reporting period.
8. Data - A round of water-level measurements was performed. Copies of the field book are attached.
9. Community Contacts/Concerns - None.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA

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W. PETER BALLEAU
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JEFFREY B. LENNOX
KEVIN J. MILLER
FRANK J. GETCHELL

June 6, 1990

Dr. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

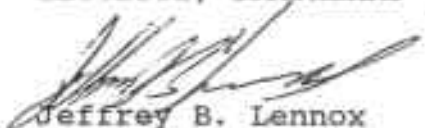
RE: Rowe Industries Ground-Water
Contamination Site

Dear Dr. Cam:

Enclosed is the progress report for the above-referenced site for May 1990. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Associate

JBL:srf

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Mr. Carl Volkert, Nabisco, Inc.
Ms. Ilene P. Karpf, Nabisco, Inc.
Mr. Paul Scheerer, Sag Harbor Industries
Mr. C. MacNeil Mitchell, Breed Abbott & Morgan
Mr. Daniel Riesel, Sive, Paget & Riesel
Mr. Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Mr. Jim W. Tapp, Jr., Pilko & Associates, Inc.
Mr. David D. Wright, Esq.
roweind/90-11

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: June 6, 1990

Reporting Period: May 1990

1. Progress Made This Reporting Period - Work continued on model development; final review of water-quality laboratory results; final preparation of the draft RI report and submittal to the EPA; data validation results were reviewed; the data base for laboratory results was completed; preliminary work on the feasibility study continued; and a round of water-level measurements was performed.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for April 1990 was submitted on May 10, 1990 and the draft RI report was submitted on May 23, 1990.
5. Upcoming Events/Activities Planned - For June, office work will include preparation of the work plan for the second phase of field operations; continuation of the feasibility study and the ground-water contaminant transport model. A round of water-level measurements will be performed.
6. Key Staffing Changes - None.
7. Percentage Complete - 100 percent of the first phase of the RI was completed through the reporting period.
8. Data - A round of water-level measurements was performed. Copies of the field book are attached.
9. Community Contacts/Concerns - None.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

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July 11, 1990

Dr. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

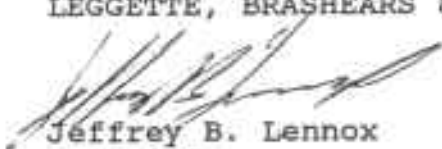
RE: Rowe Industries Ground-Water
Contamination Site

Dear Dr. Cam:

Enclosed is the progress report for the above-referenced site for June 1990. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Associate

JBL:lms

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
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Moskowitz, Edelman & Dicker
Mr. Jim W. Tapp, Jr., Pilko & Associates, Inc.
Mr. David D. Wright, Esq.

roweind/90-11

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: July 11, 1990

Reporting Period: June 1990

1. Progress Made This Reporting Period - Calibration of the computer model continued and is nearly complete. Laboratory responses to validation questions were received.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for May 1990 was submitted on June 6, 1990.
5. Upcoming Events/Activities Planned - For July, a round of water-level measurements will be performed and a plan for disposal of drill cuttings will be prepared.
6. Key Staffing Changes - None.
7. Percentage Complete - 100 percent of the first phase of the RI was completed through the reporting period.
8. Data - No field work was performed.
9. Community Contacts/Concerns - None.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.
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August 16, 1990

Dr. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

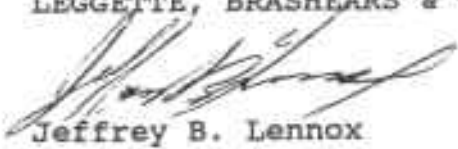
RE: Rowe Industries Ground-Water
Contamination Site

Dear Dr. Cam:

Enclosed is the progress report for the above-
referenced site for July 1990. Please call me if you have
any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Associate

JBL:lms
Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
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roweind/90-11

MIDLAND PARK, NEW JERSEY

ST. PAUL, MINNESOTA

ALBUQUERQUE, NEW MEXICO

TAMPA, FLORIDA

SIOUX FALLS, SOUTH DAKOTA

EXTON, PENNSYLVANIA

NASHUA, NEW HAMPSHIRE

FISHKILL, NEW YORK

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: August 16, 1990

Reporting Period: July 1990

1. Progress Made This Reporting Period - A round of water-level measurements was performed, a plan for sampling and disposal of drill cuttings was prepared and approved and work continued as a review of treatment alternatives for possible remediation.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for June 1990 was submitted on July 11, 1990.
5. Upcoming Events/Activities Planned - For August, a round of water-level measurements will be performed and drums of drill cuttings will be sampled.
6. Key Staffing Changes - None.
7. Percentage Complete - 100 percent of the first phase of the RI was completed through the reporting period.
8. Data - Field notes are attached for the water-level measurements.
9. Community Contacts/Concerns - None.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

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FRANK J. GETCHELL

September 12, 1990

Dr. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Dr. Cam:

Enclosed is the progress report for the above-referenced site for August 1990. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Associate

JBL:lms

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
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Waste, New York Department of Environmental
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Moskowitz, Edelman & Dicker
Mr. Jim W. Tapp, Jr., Pilko & Associates, Inc.
Mr. David D. Wright, Esq.

roweind/90-11

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: September 12, 1990

Reporting Period: August 1990

1. Progress Made This Reporting Period - A round of water-level measurements was performed, work continued on a review of treatment alternatives for possible remediation, and the drums containing drill cuttings were sampled.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for July 1990 was submitted on August 16, 1990.
5. Upcoming Events/Activities Planned - For September, a round of water-level measurements will be performed and a site visit will be performed for evaluation of alternatives for the second phase of the RI.
6. Key Staffing Changes - None.
7. Percentage Complete - 100 percent of the first phase of the RI was completed through the reporting period.
8. Data - Field notes are attached for the water-level measurements and drum sampling.
9. Community Contacts/Concerns - None.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.

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October 9, 1990

Dr. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Dr. Cam:

Enclosed is the progress report for the above-referenced site for September 1990. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Associate

JBL:lms

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
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roweind/90-11

MIDLAND PARK, NEW JERSEY

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TAMPA, FLORIDA

SIOUX FALLS, SOUTH DAKOTA

EXTON, PENNSYLVANIA

NASHUA, NEW HAMPSHIRE

FISHKILL, NEW YORK

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: October 9, 1990

Reporting Period: September 1990

1. Progress Made This Reporting Period - A round of water-level measurements was performed, work continued on a review of treatment alternatives for possible remediation, and a site visit was performed to evaluate alternatives for the second phase of the RI.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for August 1990 was submitted on September 12, 1990.
5. Upcoming Events/Activities Planned - For October, a round of water-level measurements will be performed, the second phase work plan will be prepared, and the results of the drum sampling will be reviewed and the disposal plan finalized.
6. Key Staffing Changes - None.
7. Percentage Complete - 100 percent of the first phase of the RI was completed through the reporting period.
8. Data - Field notes are attached for the water-level measurements.
9. Community Contacts/Concerns - Mr. Anthony Fabiano was interviewed to attempt to determine where drums may have been buried after the fire that destroyed the original Rowe Industries building.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

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G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA

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KEVIN J. MILLER
FRANK J. GETCHELL

November 12, 1990

Dr. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Dr. Cam:

Enclosed is the progress report for the above-referenced site for October 1990. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox
Associate

JBL:lms
Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
Mr. James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
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Mr. David D. Wright, Esq.
roweind/90-11

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: November 12, 1990

Reporting Period: October 1990

1. Progress Made This Reporting Period - A round of water-level measurements was performed, the RI Phase II work plan was started and the drum sample laboratory results were reviewed.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for September 1990 was submitted on October 9, 1990.
5. Upcoming Events/Activities Planned - For October, a round of water-level measurements will be performed and the drum sampling results and disposal plan will be submitted to the EPA. The Phase II work plan will be submitted to the EPA in November or December.
6. Key Staffing Changes - None.
7. Percentage Complete - 100 percent of the first phase of the RI was completed through the reporting period.
8. Data - Field notes are attached for the water-level measurements.
9. Community Contacts/Concerns - None.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

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January 11, 1991

Dr. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Dr. Cam:

Enclosed is the progress report for the above-referenced site for December 1990. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:srf

Enclosures

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roweind/90-11

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: January 11, 1991

Reporting Period: December 1990

1. Progress Made This Reporting Period - The draft RI Phase II Work Plan was completed and submitted to the EPA and DEC. The EPA's comments on the draft RI report were received on December 12, 1990. An initial review of the comments was made in December.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for November 1990 and a draft Phase II RI Work Plan were submitted on December 13, 1990.
5. Upcoming Events/Activities Planned - For January, a round of water-level measurements will be performed, the comments on the draft RI will be reviewed and revisions to the report started. A meeting with the EPA and DEC is scheduled for late January to review the status of the investigation.
6. Key Staffing Changes - None.
7. Percentage Complete - 100 percent of the first phase of the RI was completed through the reporting period.
8. Data - No field work was performed.
9. Community Contacts/Concerns - None.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

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February 13, 1991

Dr. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
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26 Federal Plaza, Room 747
New York, NY 10278

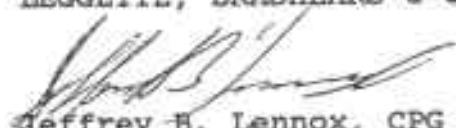
RE: Rowe Industries Ground-Water
Contamination Site

Dear Dr. Cam:

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Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:srf

Enclosures

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PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: February 13, 1991

Reporting Period: January 1991

1. Progress Made This Reporting Period - A meeting with the EPA was held on January 30, 1991. The results of the meeting were an understanding of the overall status of the investigations, the extent of Phase II work to be performed and the desired time line of the EPA for completion of the investigations. Alliance Technologies reported on their finding that the Phase I investigations were performed well and requested information needed for the Risk Assessment. It was determined that a revised interim RI report would not be submitted prior to completion of the Phase II RI investigations. The revised report will include Phase II results.

A round of water-level measurements was performed, responses to the EPA RI comments were prepared and submitted, revisions to the RI report were started and work on the FS continued.

2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for December 1990 was submitted on January 11, 1991 and responses to the EPA comments on the draft RI were submitted on January 25, 1991.
5. Upcoming Events/Activities Planned - For February, a round of water-level measurements will be performed, a revised Phase II work plan will be submitted, revisions to the RI report will be made, and work will continue on the FS.
6. Key Staffing Changes - None.
7. Percentage Complete - 100 percent of the first phase of the RI was completed through the reporting period.
8. Data - A copy of the water-level data in the field book is attached.
9. Community Contacts/Concerns - None.

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
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JOE K. BUEHROP
DAVID A. WILEY
ROBERT N. BRAUNSTEIN

March 14, 1991

Dr. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
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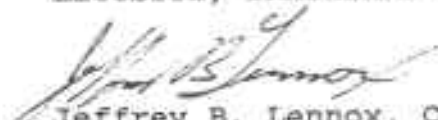
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Dear Dr. Cam:

Enclosed is the progress report for the above-referenced site for February 1991. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:srf

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Carl Volkert, Nabisco, Inc.
Ilene P. Karpf, Esq., Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
C. MacNeil Mitchell, Breed Abbott & Morgan
Daniel Riesel, Sive, Paget & Riesel
Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Jim W. Tapp, Jr., Pilko & Associates, Inc.
David D. Wright, Esq.

roweind/90-11

MIDLAND PARK, NEW JERSEY

ST. PAUL, MINNESOTA

ALBUQUERQUE, NEW MEXICO

TAMPA, FLORIDA

SIOUX FALLS, SOUTH DAKOTA

EXTON, PENNSYLVANIA

NASHUA, NEW HAMPSHIRE

FISHKILL, NEW YORK

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: March 14, 1991

Reporting Period: February 1991

1. Progress Made This Reporting Period - A round of water-level measurements was performed, drilling access in the Sag Harbor Industries building was evaluated, current ownership of the old drum storage area was determined so that access can be arranged, revisions to the Remedial Investigation (RI) report and work on the Feasibility Study (FS) continued.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for January 1991 was submitted on February 13, 1991.
5. Upcoming Events/Activities Planned - For March, a round of water-level measurements will be performed, specifications and bid forms will be prepared for the Phase II RI laboratory and drilling contractor, general preparations for the Phase II work will occur and work will continue on the FS.
6. Key Staffing Changes - None.
7. Percentage Complete - 100 percent of the first phase of the RI was completed through the reporting period.
8. Data - A copy of the water-level data in the field book is attached.
9. Community Contacts/Concerns - None.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

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ROBERT N. BRAUNSTEIN

April 10, 1991

Dr. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

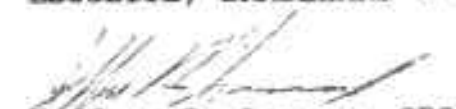
RE: Rowe Industries Ground-Water
Contamination Site

Dear Dr. Cam:

Enclosed is the progress report for the above-referenced site for March 1991. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:srf

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
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roweind/90-11

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EXTON, PENNSYLVANIA

NASHUA, NEW HAMPSHIRE

FISHKILL, NEW YORK

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: April 10, 1991

Reporting Period: March 1991

1. Progress Made This Reporting Period - Final Phase I validation reports were received, Phase II drilling specifications and bid forms were sent out, the laboratory bid package was prepared, the Phase II RI Work Plan was revised, the monthly water-level measurements were performed, a driller's bid meeting was held and general preparations for Phase II continued.
2. Anticipated Problem Areas and Recommended Solutions - None at this time.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for February 1991 was submitted on March 14, 1991.
5. Upcoming Events/Activities Planned - For April, a round of water-level measurements will be performed, the Phase II soil-vapor and electromagnetic surveys will be performed, specifications and bid forms will be sent out for the Phase II RI laboratory work and general preparations for the Phase II work will occur.
6. Key Staffing Changes - None.
7. Percentage Complete - 100 percent of the first phase of the RI and 0 percent of the Phase II RI were completed through the reporting period.
8. Data - Field notes are attached for the water-level measurements.
9. Community Contacts/Concerns - None.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

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ROBERT N. BRAUNSTEIN

May 14, 1991

Dr. Vinh Cam
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Dr. Cam:

Enclosed is the progress report for the above-referenced site for April 1991. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:srf

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
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Jim W. Tapp, Jr., Pilko & Associates, Inc.
David D. Wright, Esq.

roweind/90-11

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: May 14, 1991

Reporting Period: April 1991

1. Progress Made This Reporting Period - The Phase II soil-vapor survey was performed of the former drum storage area, inside the building and at selected areas in the wetland; the driller and laboratory were contracted; work continued on obtaining offsite drilling access; monthly water-level measurements were performed; the final Phase II work plan was submitted; the ARAR tables were updated; general Phase II preparations continued. The soil-vapor survey revealed two locations under the building with somewhat elevated soil-vapor levels that will be utilized for the borings, and there were significant vapor concentrations in the former drum storage area that will be investigated with soil borings.
2. Anticipated Problem Areas and Recommended Solutions - The drilling location for the well cluster north of Sag Harbor Cove is on a private road and permission to install the wells looks unlikely. An alternate location on a Village road is being pursued.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for March 1991 was submitted on April 10, 1991.
5. Upcoming Events/Activities Planned - For May, a round of water-level measurements will be performed, the Phase II electromagnetic survey will be performed and the onsite drilling will start. Based on the soil-vapor survey results, one or two borings are being added to the Phase II program in the former drum storage area. The borings will be drilled beyond the water table, with continuous split-spoon samples being obtained from grade to the end of boring (until detectable contamination is not encountered).
6. Key Staffing Changes - None.
7. Percentage Complete - 5 percent of the Phase II RI was completed through the reporting period.

8. Data - Field notes are attached for the water-level measurements and soil-vapor survey.
9. Community Contacts/Concerns - The owner of the property at the proposed well cluster north of Sag Harbor Cove was contacted to initiate access permission. The owner's initial response was not positive; however, additional contacts by letter are being made.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

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ROBERT N. BRAUNSTEIN

June 14, 1991

Ms. Linda Wood
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Wood:

Enclosed is the progress report for the above-referenced site for May 1991. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.

Jeffrey B. Lennox (baf)

Jeffrey B. Lennox, CPG
Associate

JBL:srf

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Carl Volkert, Nabisco, Inc.
Ilene P. Karpf, Esq., Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
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Moskowitz, Edelman & Dicker
Jim W. Tapp, Jr., Pilko & Associates, Inc.
David D. Wright, Esq.

roweind/90-11

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: June 14, 1991

Reporting Period: May 1991

1. Progress Made This Reporting Period - The electromagnetic (EM) survey was performed at the north parking lot, exploratory soil borings were drilled in the former drum storage area, pilot borings were drilled for four onsite well clusters, an expanded soil-vapor survey was performed inside the building to refine boring locations, monthly water-level measurements were performed, surface water ARARs were researched, and bidding for the ambient air monitoring was performed. The borings inside the former drum storage area confirm the area to be a possible source for the plume, based on field observations.
2. Anticipated Problem Areas and Recommended Solutions - The drilling location for the upgradient well cluster is on a private road. Permission to install the wells is being pursued.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for April 1991 was submitted on May 14, 1991.
5. Upcoming Events/Activities Planned - For June, the last onsite pilot boring will be drilled, the dry wells will be sampled, the borings inside the building will be drilled, the onsite wells will be installed and offsite drilling may start.
6. Key Staffing Changes - None.
7. Percentage Complete - 30 percent of the Phase II RI was completed through the reporting period.

8. Data - Field notes are attached.
9. Community Contacts/Concerns - The owner of the property at the proposed upgradient well cluster was contacted to obtain access permission. The owner's response is pending.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

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DAVID A. WILEY
ROBERT N. BRAUNSTEIN

July 16, 1991

Ms. Linda Wood
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Wood:

Enclosed is the progress report for the above-referenced site for June 1991. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:kaf
Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Carl Volkert, Nabisco, Inc.
Ilene P. Karpf, Esq., Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
C. MacNeil Mitchell, Breed Abbott & Morgan
Daniel Riesel, Sive, Paget & Riesel
Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Jim W. Tapp, Jr., Pilko & Associates, Inc.
David D. Wright, Esq.

roweind/90-11

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: July 16, 1991

Reporting Period: June 1991

1. Progress Made This Reporting Period - Pilot boreholes were drilled for one onsite well cluster and two offsite well clusters, borings were drilled beneath the building, the dry wells were sampled, ten onsite wells and three offsite wells were installed, well development was started, monthly water level measurements were performed, laboratory data were reviewed and Phase I drums of cuttings were resampled.
2. Anticipated Problem Areas and Recommended Solutions - None.
3. Problems Resolved - Permission from land owners was received for drilling the upgradient wells and wells north of Sag Harbor Cove.
4. Deliverables Submitted - The status report for May 1991 was submitted on June 14, 1991.
5. Upcoming Events/Activities Planned - For July, the offsite well drilling will be completed, well development will be completed, the first quarter of stream and bay sampling will be performed, the ambient air monitoring will take place and the ground-water sampling will be started.
6. Key Staffing Changes - None.
7. Percentage Complete - 60 percent of the Phase II RI was completed through the reporting period.
8. Data - Field notes are attached.
9. Community Contacts/Concerns - None.

roweind/90-11

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

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JOE E. BUEHOF
DAVID A. WILLY
ROBERT K. BRAUNSTEIN

August 12, 1991

Ms. Linda Wood
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Wood:

Enclosed is the progress report for the above-referenced site for July 1991. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:skd

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Carl Volkert, Nabisco, Inc.
Ilene P. Karpf, Esq., Nabisco, Inc.
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Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Jim W. Tapp, Jr., Pilko & Associates, Inc.
David D. Wright, Esq.

roweind/91-32

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: August 12, 1991

Reporting Period: July 1991

1. Progress Made This Reporting Period - The final six Phase II monitor wells were installed, well development was completed, the surface soil sampling was performed, the first quarterly stream and cove sampling was performed, stream piezometers were installed, the septic system was resampled, air monitoring was performed, well sampling was started, laboratory data were reviewed and monthly water-level measurements were performed.
2. Anticipated Problem Areas and Recommended Solutions - None.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for June 1991 was submitted on July 16, 1991.
5. Upcoming Events/Activities Planned - For August, the ground-water sampling will be completed, the Phase II drums will be sampled, the RI report will be updated, the monthly measurements will be performed, the Phase II sampling points will be surveyed.
6. Key Staffing Changes - None.
7. Percentage Complete - 80 percent of the Phase II RI was completed through the reporting period.
8. Data - Field notes are attached.
9. Community Contacts/Concerns - None.

roweind/91-32

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

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ROBERT N. BRAUNSTEIN

September 13, 1991

Ms. Linda Wood
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Wood:

Enclosed is the progress report for the above-referenced site for August 1991. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:skd

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
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roweind/91-32

MIDLAND PARK, NEW JERSEY

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FISHKILL, NEW YORK

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: September 13, 1991

Reporting Period: August 1991

1. Progress Made This Reporting Period - The first round of ground-water sampling was completed, all sample points were surveyed, the Phase II cutting drums were sampled, monthly water-level measurements were performed, laboratory data were analyzed and the RI report updates were started.
2. Anticipated Problem Areas and Recommended Solutions - None.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for June 1991 was submitted on August 12, 1991.
5. Upcoming Events/Activities Planned - For September, the monthly water-level measurements will be performed, with the primary activity being to continue with data analysis and report writing.
6. Key Staffing Changes - None.
7. Percentage Complete - 90 percent of the Phase II RI was completed through the reporting period.
8. Data - Field notes are attached.
9. Community Contacts/Concerns - None.

roweind/91-32

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

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ROBERT N. BRAUNSTEIN

October 11, 1991

Ms. Linda Wood
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Wood:

Enclosed is the progress report for the above-referenced site for September 1991. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:skd

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
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roweind/91-32

MIDLAND PARK, NEW JERSEY

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EXTON, PENNSYLVANIA

NASHUA, NEW HAMPSHIRE

FISHKILL, NEW YORK

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: October 11, 1991

Reporting Period: September 1991

1. Progress Made This Reporting Period - Permeability tests were performed on the new wells, monthly water-level measurements were performed, the Feasibility Study work plan was prepared and work in the RI report continued.
2. Anticipated Problem Areas and Recommended Solutions - A detailed analysis of ground-water flow directions in the vicinity of the former drum storage area was performed. The analysis revealed that the Phase II wells that were installed to detect solvents migrating from the storage area may not be directly downgradient of the potential source area and could miss the plume. Two additional wells are to be installed to ensure proper coverage.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for August 1991 was submitted on September 13, 1991.
5. Upcoming Events/Activities Planned - For October, the monthly water-level measurements will be performed, two additional monitor wells will be installed, Phase I drill cuttings will be disposed of and data analysis and report writing will continue.
6. Key Staffing Changes - None.
7. Percentage Complete - 92 percent of the Phase II RI was completed through the reporting period.
8. Data - Field notes are attached.
9. Community Contacts/Concerns - None.

roweind/91-32

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

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ROBERT N. BRAUNSTEIN

November 14, 1991

Ms. Linda Wood
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Wood:

Enclosed is the progress report for the above-referenced site for October 1991. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:srf
Enclosures

cc: Rowe Site Attorney, United States Environmental
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Conservation
Carl Volkert, Nabisco, Inc.
Ilene P. Karpf, Esq., Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
C. MacNeil Mitchell, Breed Abbott & Morgan
Daniel Riesel, Sive, Paget & Riesel
Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Jim W. Tapp, Jr., Pilko & Associates, Inc.
David D. Wright, Esq.

roweind/91-32

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: November 14, 1991

Reporting Period: October 1991

1. Progress Made This Reporting Period - Two new monitor wells were installed and sampled, Phase I drill cuttings were disposed of, monthly water-level measurements were performed, the FS work plan was finalized and submitted and revisions to the RI report continued.
2. Anticipated Problem Areas and Recommended Solutions - None.
3. Problems Resolved - Two new monitor wells were installed near the former drum storage area to more fully document water quality from the area.
4. Deliverables Submitted - The status report for September 1991 was submitted on October 11, 1991 and the FS work plan was submitted on October 8.
5. Upcoming Events/Activities Planned - For November, the monthly water-level measurements will be performed, the second round of ground-water sampling will be performed, and data analysis and report writing will continue.
6. Key Staffing Changes - None.
7. Percentage Complete - 94 percent of the Phase II RI was completed through the reporting period.
8. Data - Field notes are attached.
9. Community Contacts/Concerns - None.

roweind/91-32

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA
WILLIAM K. BECHMAN
DAN C. BUZZA
J. KEVIN POWERS
W. PETER BALLEAU

72 DANBURY ROAD
WILTON, CT 06897
203-762-1207
FAX 203-762-8862

JOHN NASO, JR.
DAVID SCOTT
LONNIE D. NORMAN
JEFFREY B. LENNOX
KEVIN J. MILLER
FRANK J. GETCHELL
JOE K. BUEHOP
DAVID A. WILEY
ROBERT N. BRAUNSTEIN

December 12, 1991

Ms. Linda Wood
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278

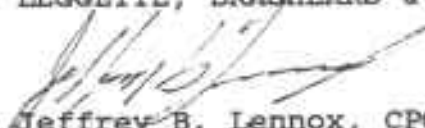
RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Wood:

Enclosed is the progress report for the above-referenced site for November 1991. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:srf

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Carl Volkert, Nabisco, Inc.
Ilene P. Karpf, Esq., Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
C. MacNeil Mitchell, Breed Abbott & Morgan
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Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Jim W. Tapp, Jr., Pilko & Associates, Inc.
David D. Wright, Esq.

roweind/91-32

MIDLAND PARK, NEW JERSEY

ST. PAUL, MINNESOTA

ALBUQUERQUE, NEW MEXICO

TAMPA, FLORIDA

SIOUX FALLS, SOUTH DAKOTA

EXETON, PENNSYLVANIA

NASHUA, NEW HAMPSHIRE

FISHKILL, NEW YORK

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: December 12, 1991

Reporting Period: November 1991

1. Progress Made This Reporting Period - The second round of ground-water sampling was performed; the second quarter of stream and bay sediment and water sampling was performed; and revisions to the RI report continued.
2. Anticipated Problem Areas and Recommended Solutions - None.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for October 1991 was submitted on November 14, 1991.
5. Upcoming Events/Activities Planned - For December, the monthly water-level measurements will be performed, Phase II drum cuttings will be disposed of, and data analysis and report writing will continue.
6. Key Staffing Changes - None.
7. Percentage Complete - 95 percent of the Phase II RI was completed through the reporting period.
8. Data - Field notes are attached.
9. Community Contacts/Concerns - None.

roweind/91-32

LEGGETTE, BRASHEARS & GRAHAM, INC.
PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA
WILLIAM K. BECKMAN
DAN C. BUZZA
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72 DANBURY ROAD
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JOHN MASO, JR.
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LONNIE D. NORMAN
JEFFREY B. LENNOX
KEVIN J. MILLER
FRANK J. GETCHELL
JOE K. BUEHNOP
DAVID A. WILEY
ROBERT N. BRAUNSTEIN

January 15, 1992

Ms. Linda Wood
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Wood:

Enclosed is the progress report for the above-referenced site for December 1991. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:skd
Enclosures
cc: Rowe Site Attorney, United States Environmental
Protection Agency
James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Carl Volkert, Nabisco, Inc.
Ilene P. Karpf, Esq., Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
C. MacNeil Mitchell, Breed Abbott & Morgan
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Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Jim W. Tapp, Jr., Pilko & Associates, Inc.
David D. Wright, Esq.

roweind/91-32

MIDLAND PARK, NEW JERSEY

ST. PAUL, MINNESOTA

ALBUQUERQUE, NEW MEXICO

TAMPA, FLORIDA

SIOUX FALLS, SOUTH DAKOTA

EXTON, PENNSYLVANIA

NASHUA, NEW HAMPSHIRE

FISKBILL, NEW YORK

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: January 15, 1992

Reporting Period: December 1991

1. Progress Made This Reporting Period - Revisions to the FS work plan were started based on comments received from the EPA, the drummed clean cuttings from Phase II of the RI were disposed of onsite, the monthly water-level measurements were performed, second round laboratory data were received and reviewed, validation reports were reviewed and revisions to the RI report continued.
2. Anticipated Problem Areas and Recommended Solutions - None.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for November 1991 was submitted on December 12, 1991.
5. Upcoming Events/Activities Planned - For January, the monthly water-level measurements will be performed and data analysis and the draft RI report will be completed.
6. Key Staffing Changes - None.
7. Percentage Complete - 97 percent of the Phase II RI was completed through the reporting period.
8. Data - Field notes are attached.
9. Community Contacts/Concerns - None.

roweind/91-32

LEGGETTE, BRASHEARS & GRAHAM, INC.

PROFESSIONAL GROUND-WATER CONSULTANTS

R. G. SLAYBACK
G. SIDNEY FOX
FRANK H. CRUM
MICHAEL R. BURKE
ROBERT LAMONICA
WILLIAM K. BECKMAN
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J. KEVIN POWERS
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73 DANBURY ROAD
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KEVIN J. MILLER
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JOE K. BUEHOP
DAVID A. WILEY
ROBERT N. BRAUNSTEIN

February 18, 1992

Ms. Linda Wood
Emergency and Remedial Response Division
United States Environmental Protection Agency
Region II
26 Federal Plaza, Room 747
New York, NY 10278


RE: Rowe Industries Ground-Water
Contamination Site

Dear Ms. Wood:

Enclosed is the progress report for the above-referenced site for January 1992. Please call me if you have any questions.

Very truly yours,

LEGGETTE, BRASHEARS & GRAHAM, INC.


Jeffrey B. Lennox, CPG
Associate

JBL:srf

Enclosures

cc: Rowe Site Attorney, United States Environmental
Protection Agency
James Bologna, Division of Solid and Hazardous
Waste, New York Department of Environmental
Conservation
Carl Volkert, Nabisco, Inc.
Ilene P. Karpf, Esq., Nabisco, Inc.
Paul Scheerer, Sag Harbor Industries
C. MacNeil Mitchell, Breed Abbott & Morgan
Daniel Riesel, Sive, Paget & Riesel
Thomas M. Gambardella, Wilson, Elser,
Moskowitz, Edelman & Dicker
Jim W. Tapp, Jr., Pilko & Associates, Inc.
David D. Wright, Esq.

roweind/91-32

PROGRESS REPORT

Site Name: Rowe Industries
Ground-Water Contamination Site

Prepared By: Jeffrey B. Lennox, CPG, Associate
Leggette, Brashears & Graham, Inc.

Representing: Nabisco, Inc.

Date: February 18, 1992

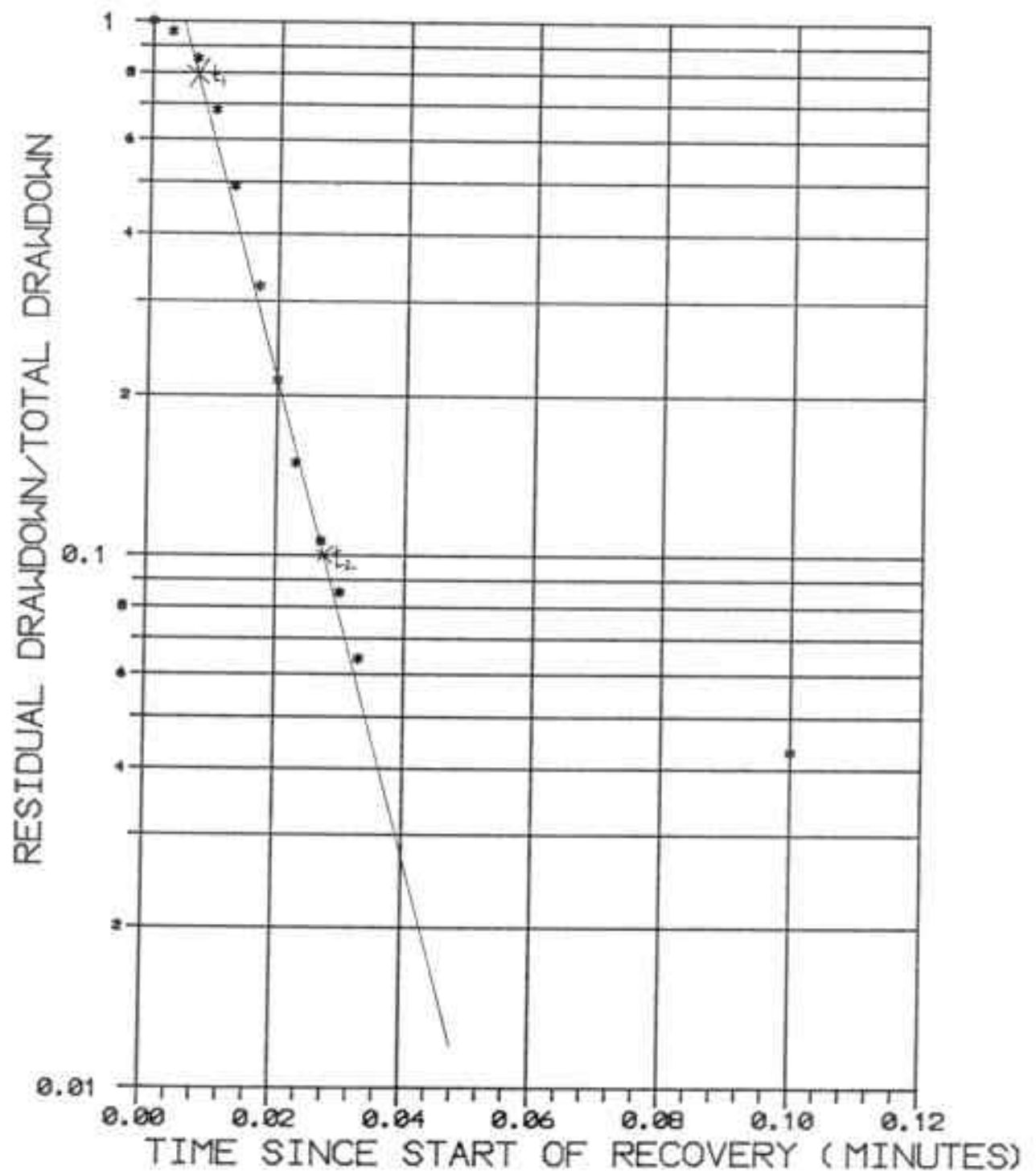
Reporting Period: January 1992

1. Progress Made This Reporting Period - The revisions to the FS work plan were completed and the plan was submitted to the EPA, work continued on preparation of the RI report, the monthly water-level measurements were performed, and the third quarter of stream and bay sampling was performed.
2. Anticipated Problem Areas and Recommended Solutions - None.
3. Problems Resolved - Not applicable.
4. Deliverables Submitted - The status report for December 1991 was submitted on January 15, 1992 and the revised FS work plan was submitted on January 17, 1992.
5. Upcoming Events/Activities Planned - For February, the revision to the RI report will be completed, and a schedule of tasks for the FS will be submitted.
6. Key Staffing Changes - None.
7. Percentage Complete - 98 percent of the Phase II RI was completed through the reporting period.
8. Data - Field notes are attached.
9. Community Contacts/Concerns - None.

roweind/91-32

APPENDIX VIII
Slug Test Analyses

HVORSLEV ANALYSIS OF MW-42ARUN 1



LEGGETTE, BRASHEARS
& GRAHAM, INC.
72 DANBURY ROAD
WILTON, CT 06897
(203) 762-1207

NABISCO BRANDS INC.
JOB _____
SHEET NO. _____ OF _____
CALCULATED BY KAB DATE 5/18/90
CHECKED BY JBL DATE 5/21/90
SCALE MW-42A Trial #1

CALCULATION OF HYDRAULIC CONDUCTIVITY BY HVORSLEV METHOD

	FEET
K = HYDRAULIC CONDUCTIVITY	
L = SATURATED SCREEN LENGTH	11.25
D = SCREEN DIAMETER	.167
d = CASING DIAMETER	.167
H₁ = PERCENT DRAWDOWN AT TIME 1	.8
H₂ = PERCENT DRAWDOWN AT TIME 2	.1
t₁ = TIME 1	.008
t₂ = TIME 2	.035

$$K = \frac{d^2 \cdot \ln \left(\frac{2L}{D} \right)}{8 L \cdot (t_2 - t_1)} \ln \frac{H_1}{H_2}$$

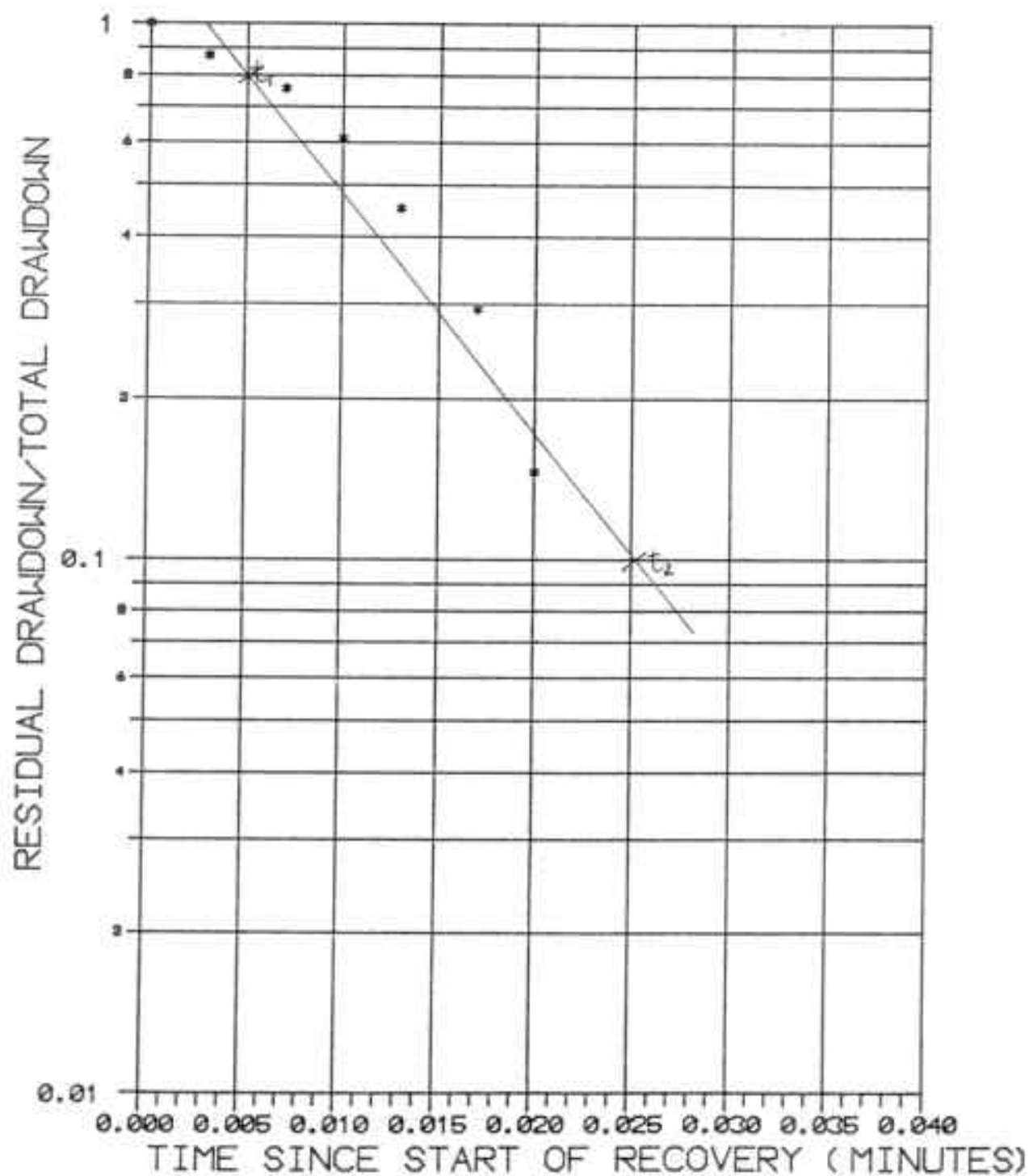
$$K = \frac{(.167)^2 \cdot \ln \left(\frac{2 \cdot 11.25}{.167} \right)}{8 (11.25) (.035 - .008)} \ln \frac{.8}{.1}$$

$$K = 0.157 \text{ FT/MIN}$$

$$K = 2.26 \text{ FT/DAY}$$

$$K = 1695 \text{ GAL/DAY/FT}^2$$

HVORSLEV ANALYSIS OF *MW-42B* RUN 1



LEGGETTE, BRASHEARS
& GRAHAM, INC.
72 DANBURY ROAD
WILTON, CT 06897
(203) 762-1207

NABISCO BRANDS INC.

JOB _____
SHEET NO. _____ OF _____
CALCULATED BY KAB DATE 5/18/90
CHECKED BY JRZ DATE 5/21/90
SCALE MW-42B Trial #1

CALCULATION OF HYDRAULIC CONDUCTIVITY BY HVORSLEV METHOD

	FEET
K = HYDRAULIC CONDUCTIVITY	
L = SATURATED SCREEN LENGTH	10
D = SCREEN DIAMETER	.167
d = CASING DIAMETER	.167
H₁ = PERCENT DRAWDOWN AT TIME 1	.8
H₂ = PERCENT DRAWDOWN AT TIME 2	.1
t₁ = TIME 1	.005
t₂ = TIME 2	.025

$$K = \frac{d^2 \cdot \ln\left(\frac{2L}{D}\right)}{8L \cdot (t_2 - t_1)} \ln \frac{H_1}{H_2}$$

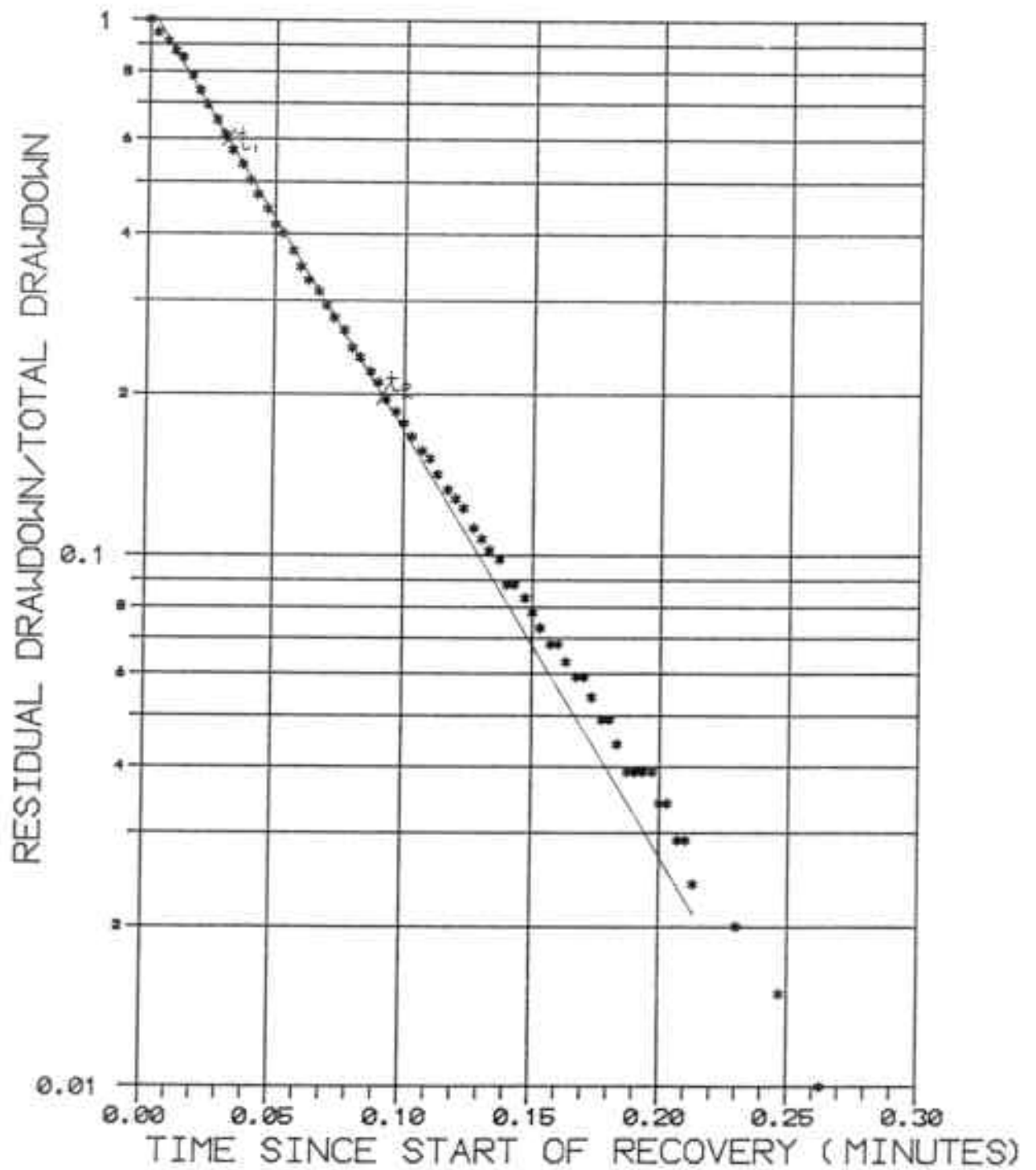
$$K = \frac{(.167)^2 \cdot \ln\left(\frac{2(10)}{.167}\right)}{8(10) \cdot (.025 - .005)} \ln \frac{.8}{.1}$$

$$K = 0.173 \quad \text{FT/MIN}$$

$$K = 250 \quad \text{FT/DAY}$$

$$K = 1870 \quad \text{GAL/DAY/FT}^2$$

HVORSLEV ANALYSIS OF MW-42CRUN 1



LEGGETTE, BRASHEARS
& GRAHAM, INC.
72 DANBURY ROAD
WILTON, CT 06897
(203) 762-1207

NABISCO BRANDS INC.

JOB _____
SHEET NO. _____ OF _____
CALCULATED BY KAB DATE 5/18/90
CHECKED BY JBL DATE 5/21/90
SCALE MW-42C Trial #1

CALCULATION OF HYDRAULIC CONDUCTIVITY BY HVORSLEV METHOD

	FEET
K = HYDRAULIC CONDUCTIVITY	
L = SATURATED SCREEN LENGTH	10
D = SCREEN DIAMETER	.167
d = CASING DIAMETER	.167
H₁ = PERCENT DRAWDOWN AT TIME 1	.6
H₂ = PERCENT DRAWDOWN AT TIME 2	.2
t₁ = TIME 1	.029
t₂ = TIME 2	.090

$$K = \frac{d^2 \cdot \ln\left(\frac{2L}{D}\right)}{8L \cdot (t_2 - t_1)} \cdot \ln \frac{H_1}{H_2}$$

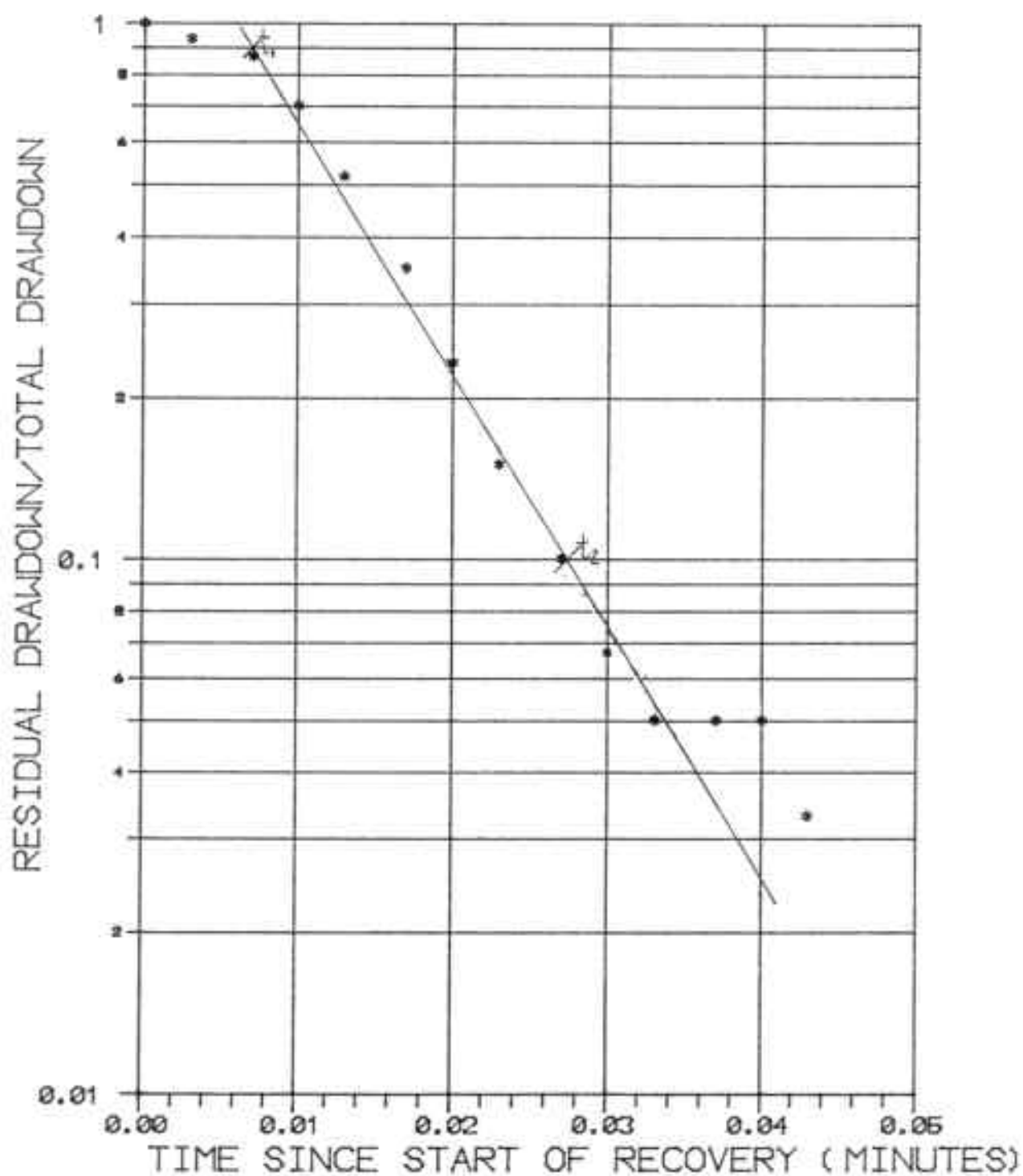
$$K = \frac{(.167)^2 \cdot \ln\left(\frac{2 \cdot 10}{.167}\right)}{8(10) \cdot (.090 - .029)} \cdot \ln \frac{.6}{.2}$$

$$K = .030 \quad \text{FT/MIN}$$

$$K = 43 \quad \text{FT/DAY}$$

$$K = 323 \quad \text{GAL/DAY/FT}^2$$

HVORSLEV ANALYSIS OF MW-43A RUN 1



LEGGETTE, BRASHEARS
& GRAHAM, INC.
72 DANBURY ROAD
WILTON, CT 06897
(203) 762-1207

NABISCO BRANDS INC.

JOB _____
SHEET NO. _____ OF _____
CALCULATED BY KAB DATE 5/18/90
CHECKED BY JBL DATE 5/21/90
SCALE MW-43A Trial #1

CALCULATION OF HYDRAULIC CONDUCTIVITY BY HVORSLEV METHOD

	FEET
K = HYDRAULIC CONDUCTIVITY	
L = SATURATED SCREEN LENGTH	11.43
D = SCREEN DIAMETER	.167
d = CASING DIAMETER	.167
H₁ = PERCENT DRAWDOWN AT TIME 1	0.9
H₂ = PERCENT DRAWDOWN AT TIME 2	0.1
t₁ = TIME 1	.007
t₂ = TIME 2	.027

$$K = \frac{d^2 \cdot \ln\left(\frac{2L}{D}\right)}{8L \cdot (t_2 - t_1)} \cdot \ln \frac{H_1}{H_2}$$

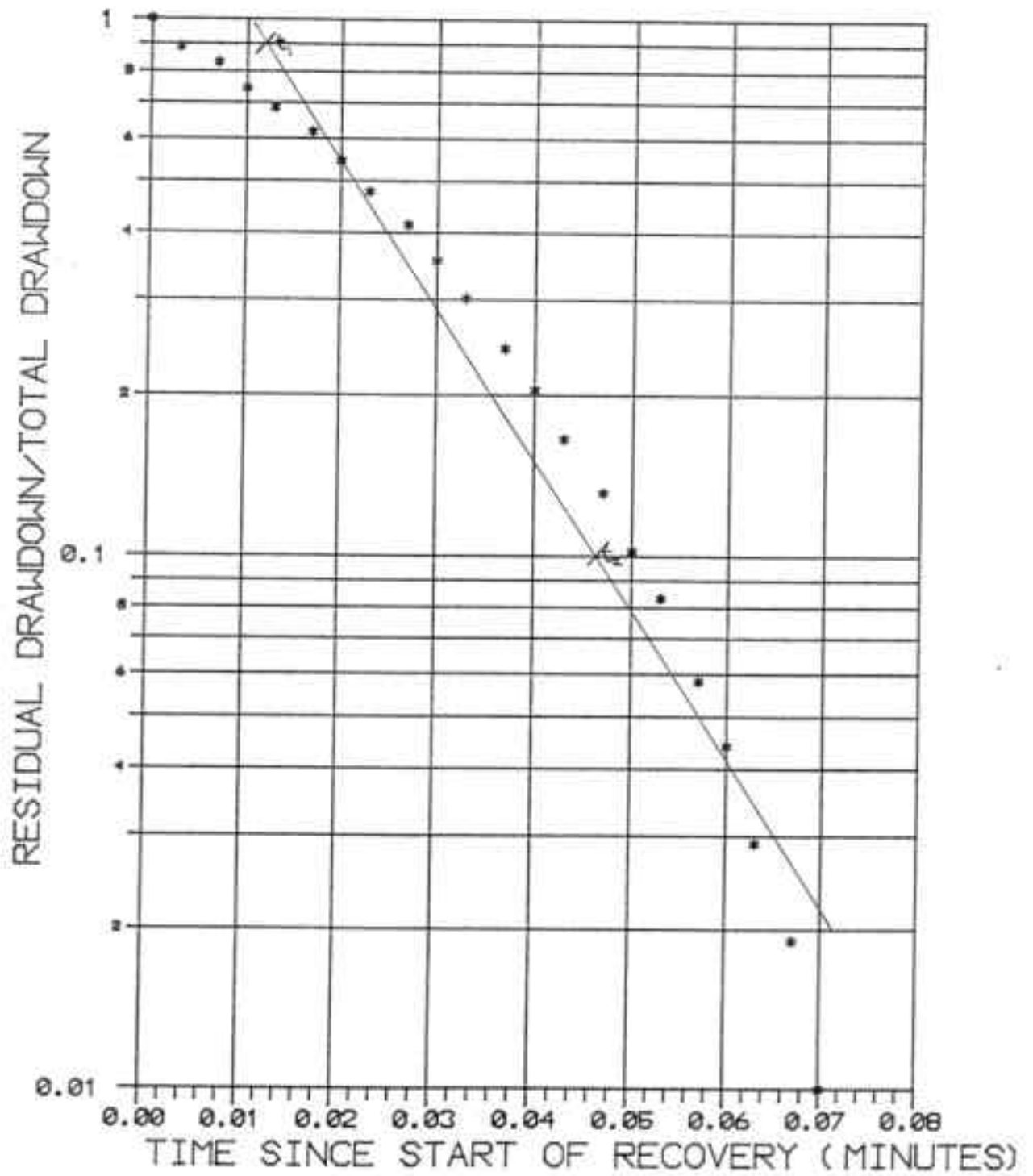
$$K = \frac{(.167)^2 \cdot \ln\left(\frac{2(11.43)}{.167}\right)}{8(11.43)(.027 - .007)} \cdot \ln \frac{.9}{.1}$$

$$K = 0.164 \quad \text{FT/MIN}$$

$$K = 236 \quad \text{FT/DAY}$$

$$K = 1768 \quad \text{GAL/DAY/FT}^2$$

HVORSLEV ANALYSIS OF *MW-43B* RUN 1



LEGGETTE, BRASHEARS
& GRAHAM, INC.
72 DANBURY ROAD
WILTON, CT 06897
(203) 762-1207

NABISCO BRANDS INC.

JOB _____

SHEET NO. _____

OF _____

CALCULATED BY KAB

DATE 5/18/90

CHECKED BY JBL

DATE 5/21/90

SCALE MW-43B

Trial #1

CALCULATION OF HYDRAULIC CONDUCTIVITY BY HVORSLEV METHOD

K = HYDRAULIC CONDUCTIVITY

L = SATURATED SCREEN LENGTH

D = SCREEN DIAMETER

d = CASING DIAMETER

H₁ = PERCENT DRAWDOWN AT TIME 1

H₂ = PERCENT DRAWDOWN AT TIME 2

t₁ = TIME 1

t₂ = TIME 2

FEET

10

.167

.167

.9

.1

.013

.046

$$K = \frac{d^2 \cdot \ln \left(\frac{2L}{D} \right)}{8 L \cdot (T_2 - T_1)} \cdot \ln \frac{H_1}{H_2}$$

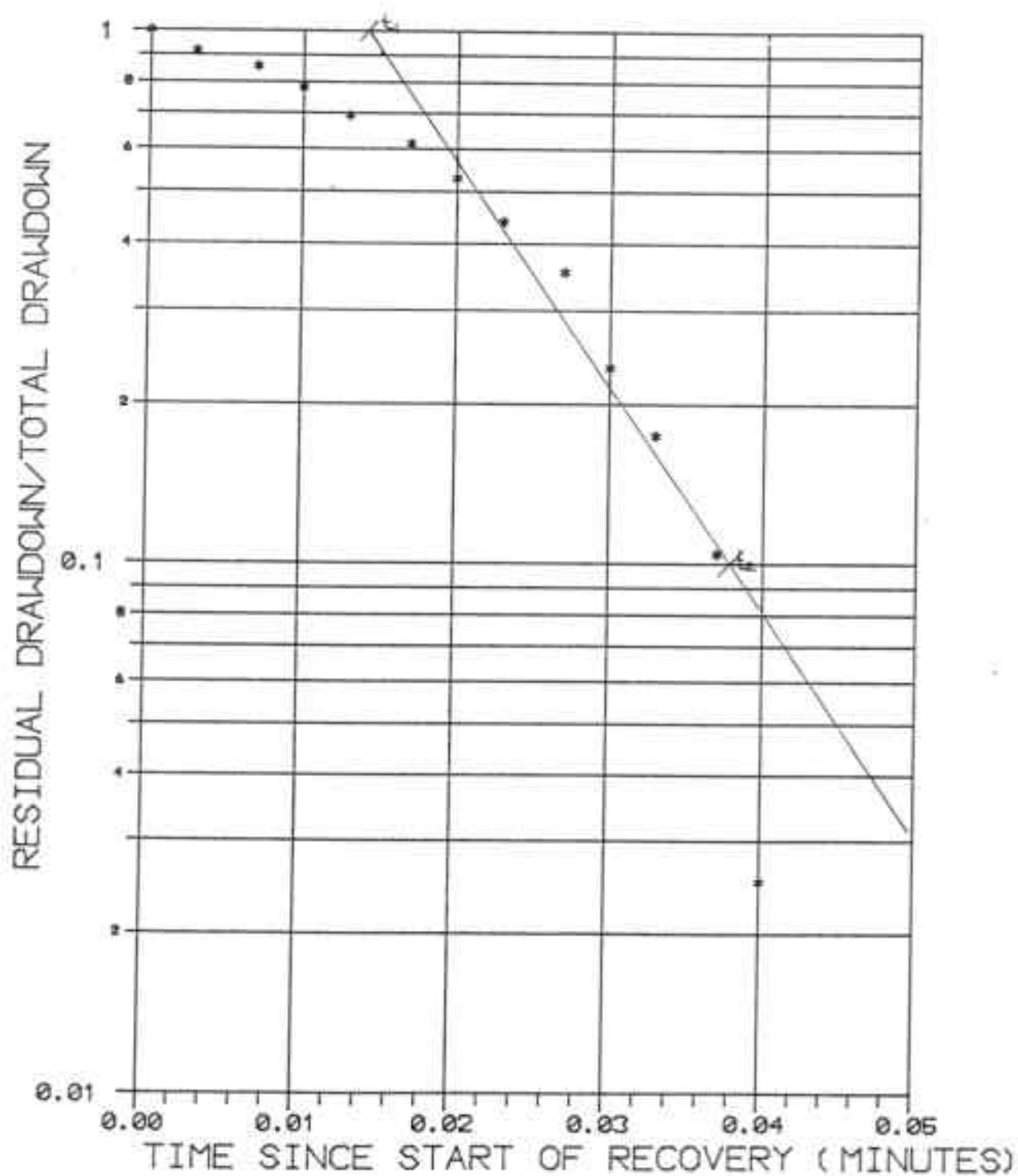
$$K = \frac{(.167)^2 \cdot \ln \left(\frac{2 \cdot 10}{.167} \right)}{8(.046 - .013)} \cdot \ln \frac{.9}{.1}$$

$$K = 0.107 \text{ FT/MIN}$$

$$K = 155 \text{ FT/DAY}$$

$$K = 1157 \text{ GAL/DAY/FT}^2$$

HVORSLEV ANALYSIS OF MW-43CRUN 1



LEGGETTE, BRASHEARS
& GRAHAM, INC.
72 DANBURY ROAD
WILTON, CT 06897
(203) 762-1207

JOB _____
SHEET NO. _____ OF _____
CALCULATED BY KAB DATE 5/13/90
CHECKED BY JBL DATE 5/21/90
SCALE MW-43C Trial #1

CALCULATION OF HYDRAULIC CONDUCTIVITY BY HVORSLEV METHOD

	FEET
K = HYDRAULIC CONDUCTIVITY	
L = SATURATED SCREEN LENGTH	10
D = SCREEN DIAMETER	.167
d = CASING DIAMETER	.167
H₁ = PERCENT DRAWDOWN AT TIME 1	1.0
H₂ = PERCENT DRAWDOWN AT TIME 2	0.1
t₁ = TIME 1	.014
t₂ = TIME 2	.038

$$K = \frac{d^2 \cdot \ln\left(\frac{2L}{D}\right)}{8L \cdot (T_2 - T_1)} \cdot \ln \frac{H_1}{H_2}$$

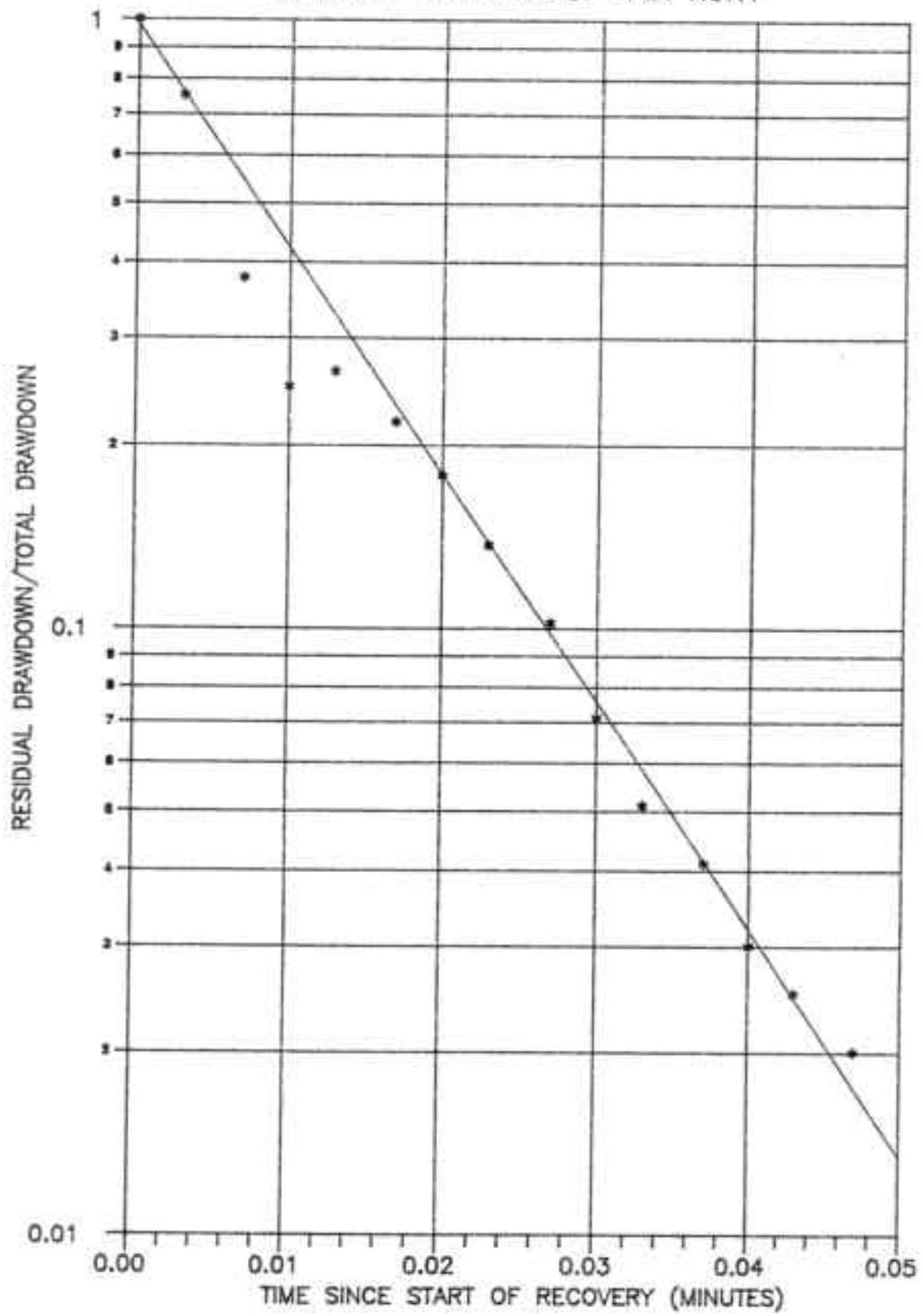
$$K = \frac{(.167)^2 \cdot \ln\left(\frac{2 \cdot 10}{.167}\right)}{8(10) \cdot (.038 - .014)} \cdot \ln \frac{1.0}{0.1}$$

$$K = 0.160 \text{ FT/MIN}$$

$$K = 230 \text{ FT/DAY}$$

$$K = 1724 \text{ GAL/DAY/FT}^2$$

HVORSLEV ANALYSIS OF 44A RUN1



LEGGETTE, BRASHEARS
& GRAHAM, INC.
72 DANBURY ROAD
WILTON, CT 06897
(203) 762-1207

NABISCO BRANDS INC.

JOB _____
SHEET NO. _____ OF _____
CALCULATED BY KAB DATE 1-10-92
CHECKED BY _____ DATE _____
SCALE MW-44A

CALCULATION OF HYDRAULIC CONDUCTIVITY BY HVORSLEV METHOD

FEET

K = HYDRAULIC CONDUCTIVITY

L = SATURATED SCREEN LENGTH = 14

D = SCREEN DIAMETER = .167

d = CASING DIAMETER = .167

H₁ = PERCENT DRAWDOWN AT TIME 1 = .9

H₂ = PERCENT DRAWDOWN AT TIME 2 = .3

t₁ = TIME 1 = .001

t₂ = TIME 2 = .014

$$K = \frac{d^2 \cdot \ln\left(\frac{2L}{D}\right)}{8L \cdot (T_2 - T_1)} \cdot \ln \frac{H_1}{H_2}$$

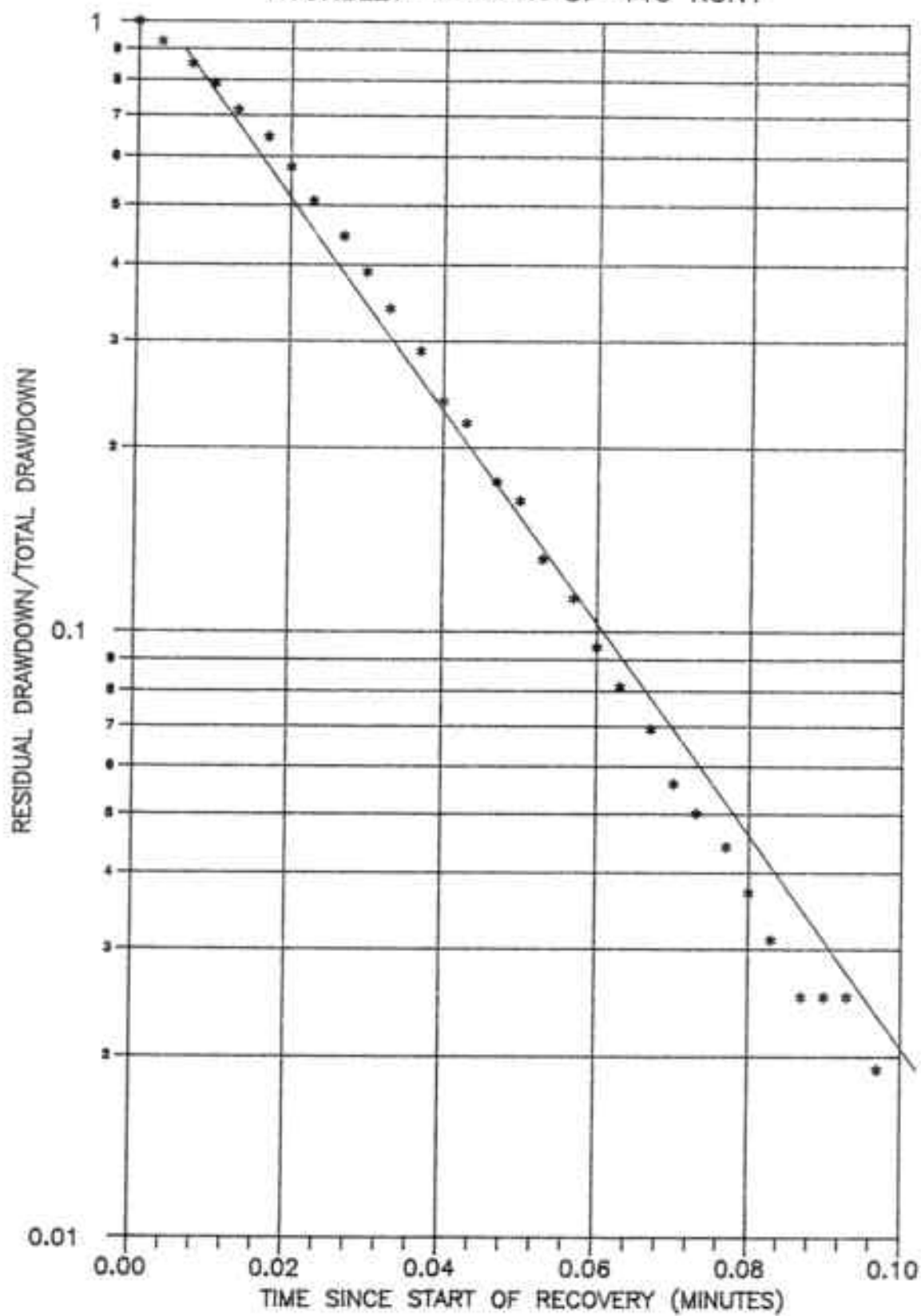
$$K = \frac{(.167)^2 \cdot \ln\left(\frac{2(14)}{.167}\right)}{8(14) \cdot (.014 - .001)} \cdot \ln \frac{.9}{.3}$$

$$K = .176 \quad \text{FT/MIN}$$

$$K = 253 \quad \text{FT/DAY}$$

$$K = 1894 \quad \text{GAL/DAY/FT}$$

HVORSLEV ANALYSIS OF 44C RUN1



LEGGETTE, BRASHEARS
& GRAHAM, INC.
72 DANBURY ROAD
WILTON, CT 06897
(203) 762-1207

NABISCO BRANDS INC.

JOB _____
SHEET NO. _____ OF _____
CALCULATED BY KAB DATE 1-10-92
CHECKED BY _____ DATE _____
SCALE HW-44C

CALCULATION OF HYDRAULIC CONDUCTIVITY BY HVORSLEV METHOD

FEET

K = HYDRAULIC CONDUCTIVITY

L = SATURATED SCREEN LENGTH = 10

D = SCREEN DIAMETER = .167

d = CASING DIAMETER = .167

H₁ = PERCENT DRAWDOWN AT TIME 1 = .9

H₂ = PERCENT DRAWDOWN AT TIME 2 = .2

t₁ = TIME 1 = .006

t₂ = TIME 2 = .044

$$K = \frac{d^2 \cdot \ln\left(\frac{2L}{D}\right)}{8L \cdot (T_2 - T_1)} \cdot \ln \frac{H_1}{H_2}$$

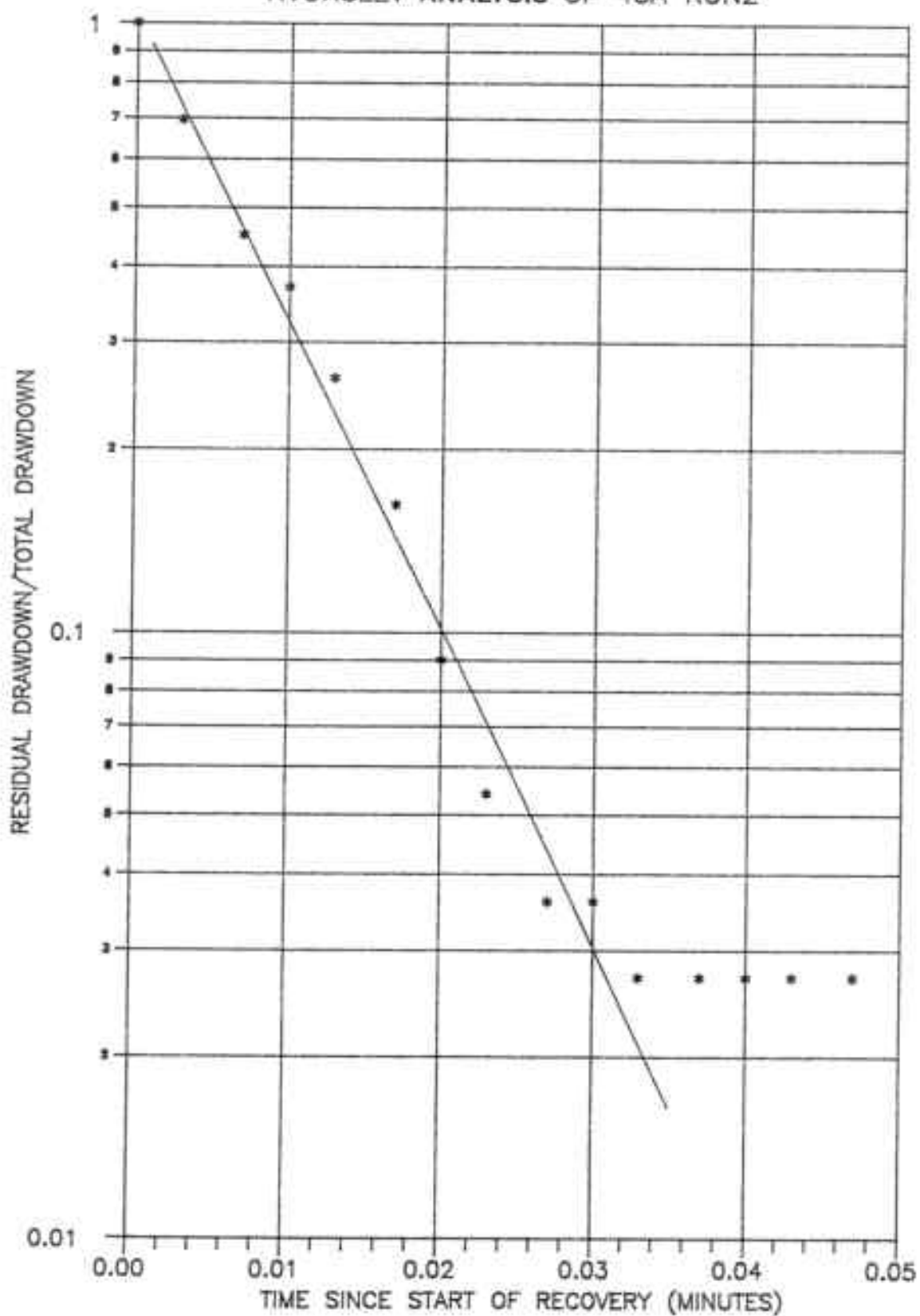
$$K = \frac{(.167)^2 \cdot \ln\left(\frac{2(10)}{.167}\right)}{8(10) \cdot (.044 - .006)} \cdot \ln \frac{.9}{.2}$$

$$K = .0666 \text{ FT/MIN}$$

$$K = 95 \text{ FT/DAY}$$

$$K = 714 \text{ GAL/DAY/FT}$$

HVORSLEV ANALYSIS OF 45A RUN2



LEGGETTE, BRASHEARS
& GRAHAM, INC.
72 DANBURY ROAD
WILTON, CT 06897
(203) 762-1207

NABISCO BRANDS INC.

JOB _____
SHEET NO. _____ OF _____
CALCULATED BY KAG DATE 1-10-92
CHECKED BY _____ DATE _____
SCALE MW 45 A

CALCULATION OF HYDRAULIC CONDUCTIVITY BY HVORSLEV METHOD

FEET

K = HYDRAULIC CONDUCTIVITY

L = SATURATED SCREEN LENGTH = 9.02

D = SCREEN DIAMETER = .167

d = CASING DIAMETER = .167

H₁ = PERCENT DRAWDOWN AT TIME 1 = .7

H₂ = PERCENT DRAWDOWN AT TIME 2 = .1

t₁ = TIME 1 = .0035

t₂ = TIME 2 = .02

$$K = \frac{d^2 \cdot \ln\left(\frac{2L}{D}\right)}{8L \cdot (T_2 - T_1)} \cdot \ln \frac{H_1}{H_2}$$

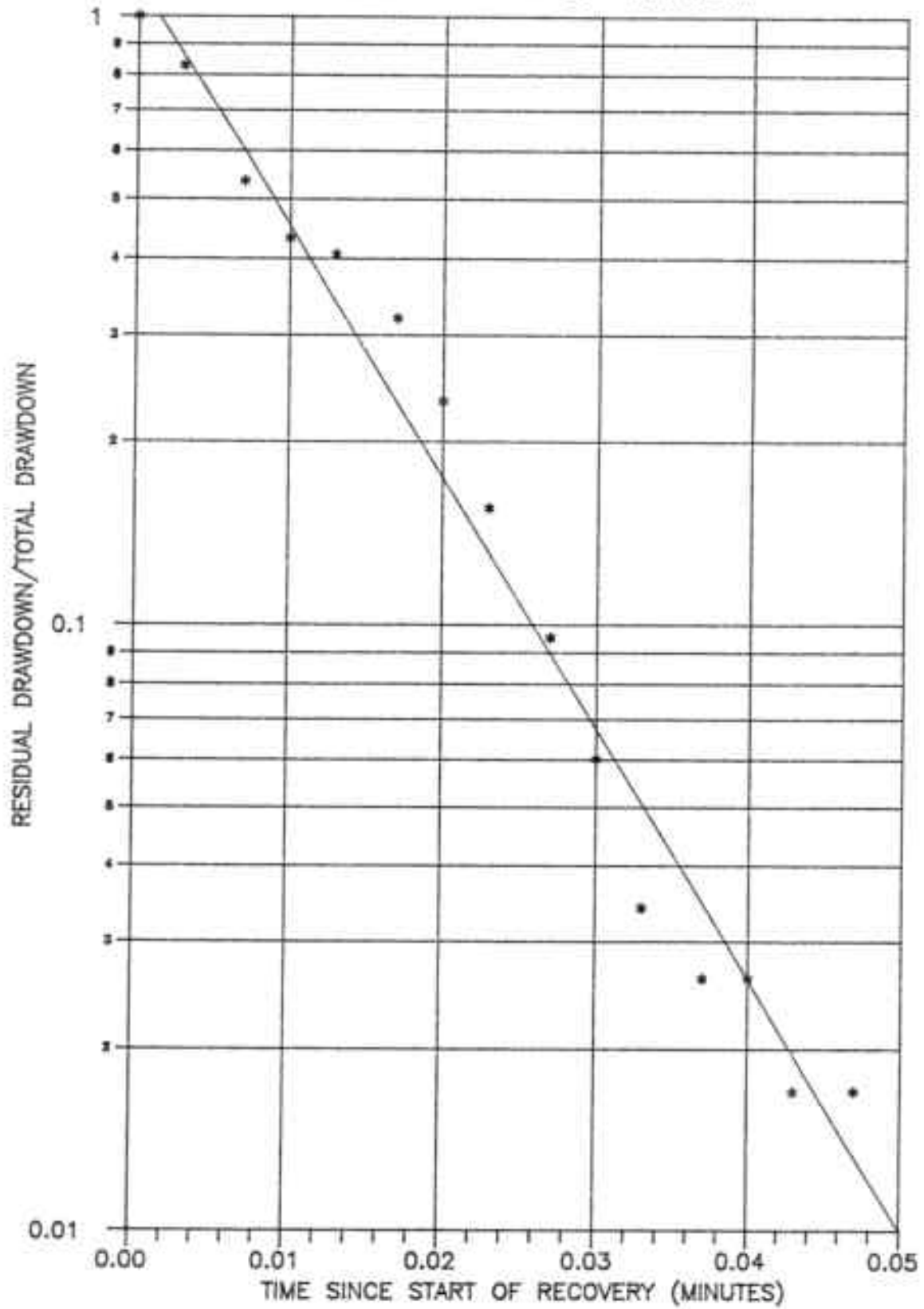
$$K = \frac{(.167)^2 \cdot \ln\left(\frac{2(9)}{.167}\right)}{8(9) \cdot (.02 - .0035)} \cdot \ln \frac{.7}{.1}$$

$$K = .214 \text{ FT/MIN}$$

$$K = 308 \text{ FT/DAY}$$

$$K = 2304 \text{ GAL/DAY/FT}$$

HVORSLEV ANALYSIS OF 47A RUN1



LEGGETTE, BRASHEARS
& GRAHAM, INC.
72 DANBURY ROAD
WILTON, CT 06897
(203) 762-1207

NABISCO BRANDS INC.

JOB _____
SHEET NO. _____ OF _____
CALCULATED BY KAB DATE 1-10-92
CHECKED BY _____ DATE _____
SCALE MW-47A

CALCULATION OF HYDRAULIC CONDUCTIVITY BY HVORSLEV METHOD

FEET

K = HYDRAULIC CONDUCTIVITY

L = SATURATED SCREEN LENGTH = 6.6

D = SCREEN DIAMETER = .167

d = CASING DIAMETER = .167

H₁ = PERCENT DRAWDOWN AT TIME 1 = .6

H₂ = PERCENT DRAWDOWN AT TIME 2 = .1

t₁ = TIME 1 = .007

t₂ = TIME 2 = .026

$$K = \frac{d^2 \cdot \ln\left(\frac{2L}{D}\right)}{8L \cdot (T_2 - T_1)} \cdot \ln \frac{H_1}{H_2}$$

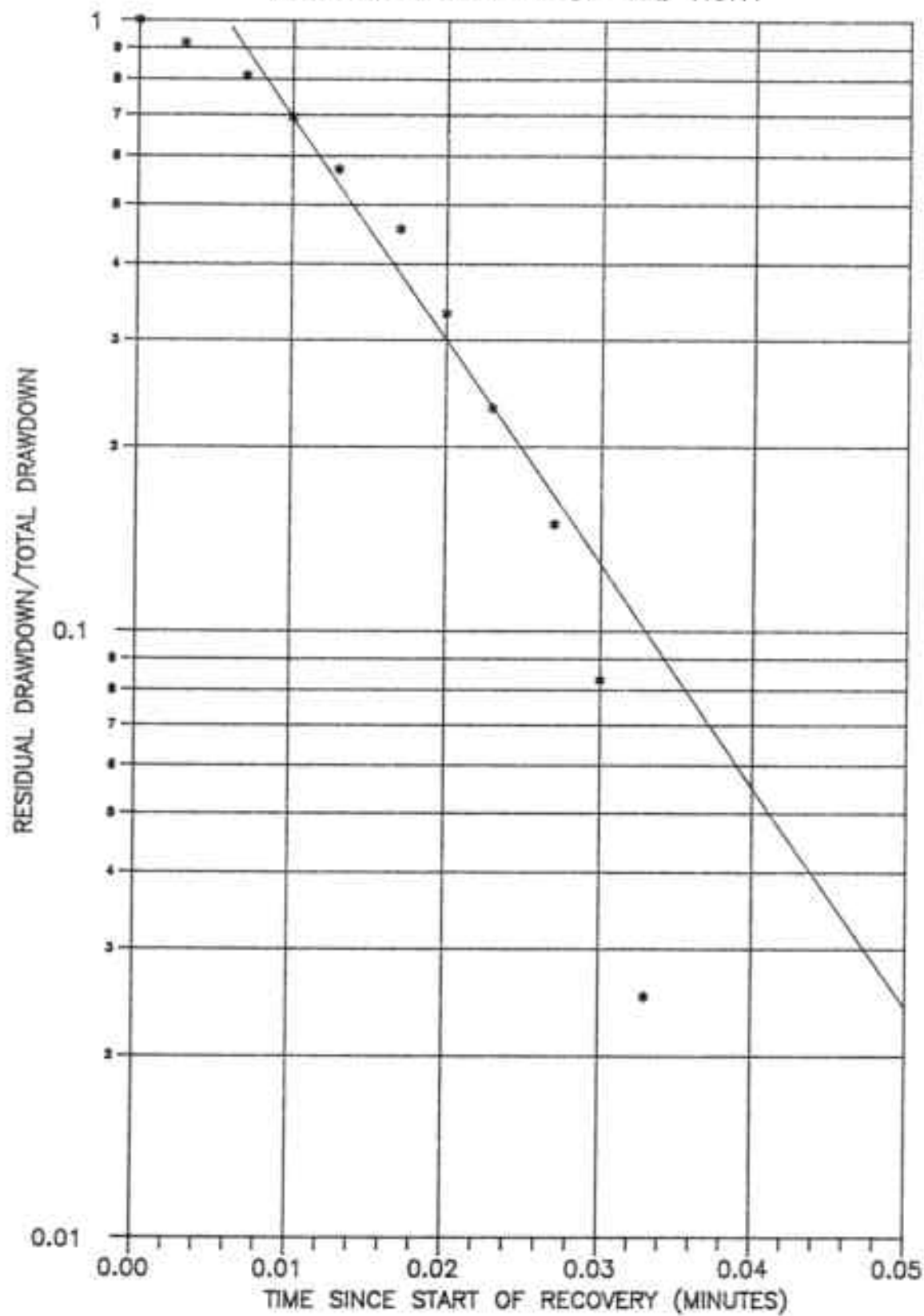
$$K = \frac{(.167)^2 \cdot \ln\left(\frac{2(6.6)}{.167}\right)}{(6.6)8 \cdot (.026 - .007)} \cdot \ln \frac{.6}{.1}$$

$$K = .219 \quad \text{FT/MIN}$$

$$K = 315 \quad \text{FT/DAY}$$

$$K = 2361 \quad \text{GAL/DAY/FT}$$

HVORSLEV ANALYSIS OF 47B RUN1



LEGGETTE, BRASHEARS
& GRAHAM, INC.
72 DANBURY ROAD
WILTON, CT 06897
(203) 762-1207

NABISCO BRANDS INC.

JOB _____

SHEET NO. _____

OF _____

CALCULATED BY

KAB

DATE

1-10-92

CHECKED BY _____

DATE _____

SCALE

MW-47B

CALCULATION OF HYDRAULIC CONDUCTIVITY BY HVORSLEV METHOD

FEET

K = HYDRAULIC CONDUCTIVITY

L = SATURATED SCREEN LENGTH = 10

D = SCREEN DIAMETER = .167

d = CASING DIAMETER = .167

H₁ = PERCENT DRAWDOWN AT TIME 1 = .8

H₂ = PERCENT DRAWDOWN AT TIME 2 = .3

t₁ = TIME 1 = .0085

t₂ = TIME 2 = .0200

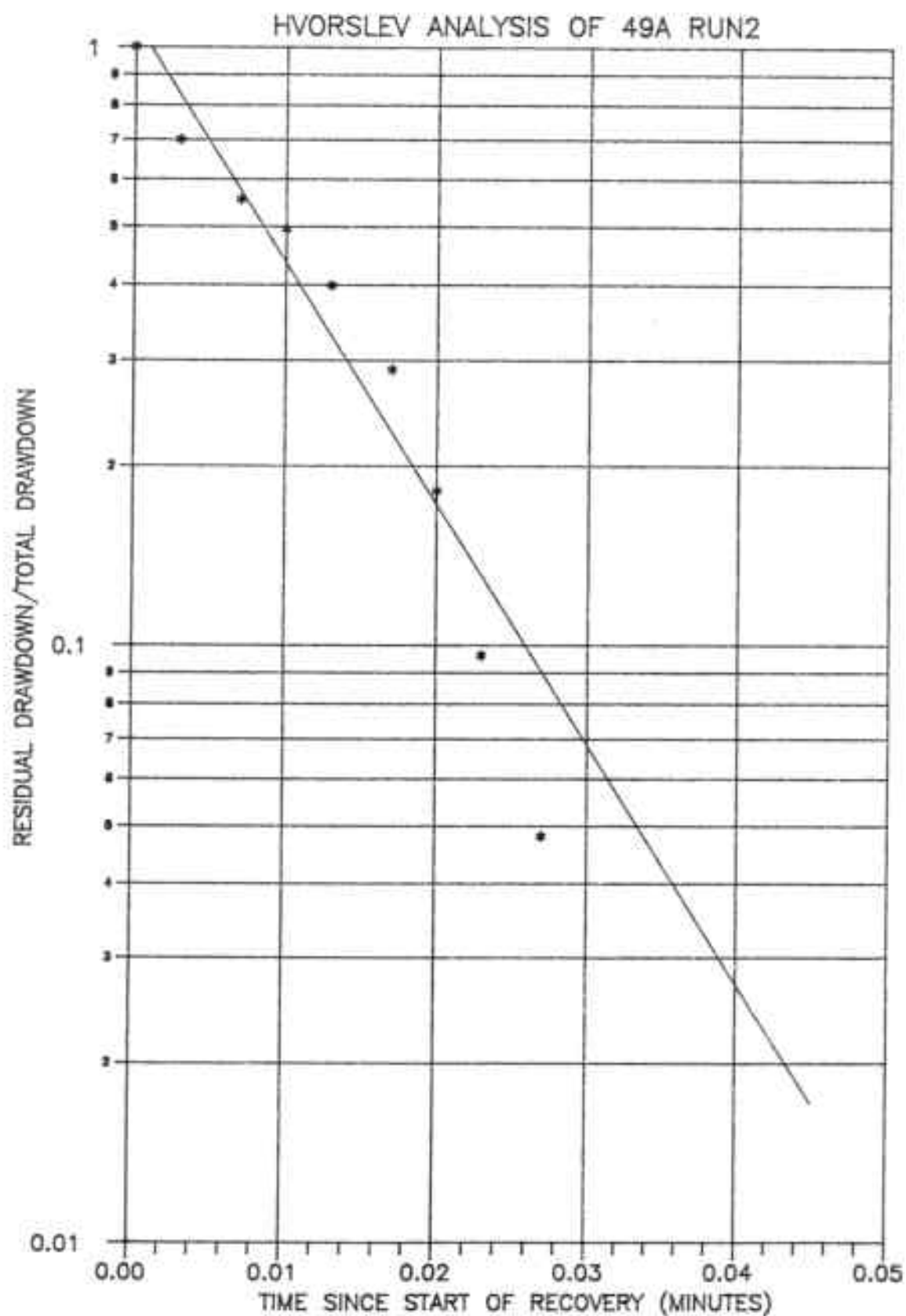
$$K = \frac{d^2 \cdot \ln\left(\frac{2L}{D}\right)}{8L \cdot (T_2 - T_1)} \cdot \ln \frac{H_1}{H_2}$$

$$K = \frac{(.167)^2 \cdot \ln\left(\frac{2(10)}{.167}\right)}{(10)8 \cdot (.02 - .0085)} \cdot \ln \frac{.8}{.3}$$

$$K = .145 \quad \text{FT/MIN}$$

$$K = 208 \quad \text{FT/DAY}$$

$$K = 1558 \quad \text{GAL/DAY/FT}$$



LEGGETTE, BRASHEARS
& GRAHAM, INC.
72 DANBURY ROAD
WILTON, CT 06897
(203) 762-1207

NABISCO BRANDS INC.

JOB _____
SHEET NO. _____ OF _____
CALCULATED BY KAB DATE 1-10-92
CHECKED BY _____ DATE _____
SCALE MW-49A

CALCULATION OF HYDRAULIC CONDUCTIVITY BY HVORSLEV METHOD

FEET

K = HYDRAULIC CONDUCTIVITY

L = SATURATED SCREEN LENGTH = 13.97

D = SCREEN DIAMETER = .167

d = CASING DIAMETER = .167

H₁ = PERCENT DRAWDOWN AT TIME 1 = .7

H₂ = PERCENT DRAWDOWN AT TIME 2 = .2

t₁ = TIME 1 = .005

t₂ = TIME 2 = .0135

$$K = \frac{d^2 \cdot \ln\left(\frac{2L}{D}\right)}{8L \cdot (T_2 - T_1)} \cdot \ln \frac{H_1}{H_2}$$

$$K = \frac{(.167)^2 \cdot \ln\left(\frac{2(14)}{.167}\right)}{8(7) \cdot (.0135 - .005)} \cdot \ln \frac{.7}{.2}$$

$$K = .119 \quad \text{FT/MIN}$$

$$K = 171 \quad \text{FT/DAY}$$

$$K = 1279 \quad \text{GAL/DAY/FT}$$

WELL MW-42A #1

TIME(MIN)	DRAWDOWN	s/Ho
0.000	0.47	1.000
0.003	0.45	0.957
0.007	0.40	0.851
0.010	0.32	0.681
0.013	0.23	0.489
0.017	0.15	0.319
0.020	0.10	0.213
0.023	0.07	0.149
0.027	0.05	0.106
0.030	0.04	0.085
0.033	0.03	0.064
0.037	0.03	0.064
0.040	0.03	0.064
0.043	0.03	0.064
0.047	0.03	0.064
0.050	0.03	0.064
0.053	0.03	0.064
0.057	0.03	0.064
0.060	0.03	0.064
0.063	0.03	0.064
0.067	0.03	0.064
0.070	0.02	0.043
0.073	0.02	0.043
0.077	0.02	0.043
0.080	0.02	0.043
0.083	0.02	0.043
0.087	0.02	0.043
0.090	0.02	0.043
0.093	0.02	0.043
0.097	0.02	0.043
0.100	0.02	0.043
0.103	0.02	0.043
0.107	0.02	0.043
0.110	0.02	0.043
0.113	0.02	0.043
0.117	0.02	0.043
0.120	0.02	0.043
0.123	0.02	0.043
0.127	0.02	0.043
0.130	0.02	0.043
0.133	0.02	0.043
0.137	0.02	0.043
0.140	0.02	0.043
0.143	0.02	0.043
0.147	0.02	0.043
0.150	0.02	0.043
0.153	0.02	0.043
0.157	0.02	0.043
0.160	0.02	0.043
0.163	0.02	0.043
0.167	0.02	0.043
0.170	0.02	0.043
0.173	0.02	0.043
0.177	0.02	0.043
0.180	0.01	0.021
0.183	0.01	0.021
0.187	0.01	0.021

MW-42B #1

TIME(MIN)	DRAWDOWN	s/H ₀
0.000	1.64	1.000
0.003	1.43	0.872
0.007	1.24	0.756
0.010	1.00	0.610
0.013	0.74	0.451
0.017	0.48	0.293
0.020	0.24	0.146
0.023	0.01	0.006
0.027	-0.22	-0.134
0.030	-0.41	-0.250
0.033	-0.60	-0.366
0.037	-0.75	-0.457
0.040	-0.87	-0.530
0.043	-0.96	-0.585
0.047	-1.03	-0.628
0.050	-1.06	-0.646
0.053	-1.05	-0.640
0.057	-1.05	-0.640
0.060	-1.00	-0.610
0.063	-0.92	-0.561
0.067	-0.83	-0.506
0.070	-0.72	-0.439
0.073	-0.59	-0.360
0.077	-0.45	-0.274
0.080	-0.31	-0.189
0.083	-0.16	-0.098
0.087	-0.01	-0.006
0.090	0.13	0.079
0.093	0.27	0.165
0.097	0.39	0.238
0.100	0.50	0.305
0.103	0.58	0.354
0.107	0.66	0.402
0.110	0.71	0.433
0.113	0.74	0.451
0.117	0.74	0.451
0.120	0.73	0.443
0.123	0.68	0.415
0.127	0.64	0.390
0.130	0.57	0.348
0.133	0.50	0.305
0.137	0.41	0.250
0.140	0.32	0.195
0.143	0.22	0.134
0.147	0.12	0.073
0.150	0.02	0.012
0.153	-0.07	-0.043
0.157	-0.15	-0.091
0.160	-0.23	-0.140
0.163	-0.30	-0.183
0.167	-0.35	-0.213
0.170	-0.40	-0.244
0.173	-0.43	-0.262
0.177	-0.44	-0.268
0.180	-0.45	-0.274
0.183	-0.44	-0.268
0.187	-0.42	-0.256
0.190	-0.39	-0.238
0.193	-0.34	-0.207
0.197	-0.30	-0.183
0.200	-0.25	-0.152
0.203	-0.19	-0.116
0.207	-0.13	-0.079
0.210	-0.07	-0.043
0.213	0.00	0.000
0.217	0.06	0.037
0.220	0.11	0.067
0.223	0.17	0.104
0.240	0.31	0.189
0.257	0.27	0.165
0.273	0.09	0.055
0.290	-0.10	-0.061
0.307	-0.19	-0.116
0.323	-0.15	-0.091
0.340	-0.02	-0.012

MW-42C #1

TIME(MIN)	DRAWDOWN	s/H ₀
0.000	2.05	1.000
0.003	1.94	0.946
0.007	1.87	0.912
0.010	1.79	0.873
0.013	1.74	0.849
0.017	1.61	0.785
0.020	1.51	0.737
0.023	1.42	0.693
0.027	1.33	0.649
0.030	1.25	0.610
0.033	1.17	0.571
0.037	1.10	0.537
0.040	1.03	0.502
0.043	0.97	0.473
0.047	0.91	0.444
0.050	0.85	0.415
0.053	0.82	0.400
0.057	0.76	0.371
0.060	0.71	0.346
0.063	0.67	0.327
0.067	0.64	0.312
0.070	0.60	0.293
0.073	0.57	0.278
0.077	0.54	0.263
0.080	0.50	0.244
0.083	0.48	0.234
0.087	0.45	0.220
0.090	0.43	0.210
0.093	0.40	0.195
0.097	0.38	0.185
0.100	0.36	0.176
0.103	0.34	0.166
0.107	0.32	0.156
0.110	0.31	0.151
0.113	0.29	0.141
0.117	0.27	0.132
0.120	0.26	0.127
0.123	0.25	0.122
0.127	0.23	0.112
0.130	0.22	0.107
0.133	0.21	0.102
0.137	0.20	0.096
0.140	0.18	0.088
0.143	0.18	0.088
0.147	0.17	0.083
0.150	0.16	0.078
0.153	0.15	0.073
0.157	0.14	0.068
0.160	0.14	0.068
0.163	0.13	0.063
0.167	0.12	0.057
0.170	0.12	0.057
0.173	0.11	0.054
0.177	0.10	0.049
0.180	0.10	0.049
0.183	0.09	0.044
0.187	0.08	0.039
0.190	0.08	0.039
0.193	0.08	0.039
0.197	0.08	0.039
0.200	0.07	0.034
0.203	0.07	0.034
0.207	0.06	0.029
0.210	0.06	0.029
0.213	0.05	0.024
0.230	0.04	0.020
0.247	0.03	0.015
0.263	0.02	0.010
0.280	0.01	0.005
0.297	0.01	0.005
0.313	0.01	0.005
0.330	0.01	0.005
0.347	0.00	0.000
0.363	0.00	0.000
0.380	0.00	0.000
0.397	0.00	0.000
0.413	0.00	0.000
0.430	0.00	0.000
0.447	0.00	0.000
0.463	0.00	0.000
0.480	0.00	0.000
0.497	0.00	0.000
0.513	0.00	0.000
0.530	0.00	0.000
0.547	0.00	0.000
0.563	0.00	0.000
0.580	0.00	0.000
0.597	-0.01	-0.005
0.613	-0.01	-0.005
0.630	-0.01	-0.005
0.647	-0.01	-0.005
0.663	-0.01	-0.005
0.680	-0.01	-0.005

MW-43A #1

TIME(H:MIN)	DRAWDOWN	s/Hr
0.000	0.60	1.000
0.003	0.56	0.933
0.007	0.52	0.867
0.010	0.42	0.700
0.013	0.31	0.517
0.017	0.21	0.350
0.020	0.14	0.233
0.023	0.09	0.150
0.027	0.06	0.100
0.030	0.04	0.067
0.033	0.03	0.050
0.037	0.02	0.050
0.040	0.03	0.050
0.043	0.02	0.033
0.047	0.02	0.033
0.050	0.02	0.033
0.053	0.02	0.033
0.057	0.02	0.033
0.060	0.02	0.033
0.063	0.02	0.033
0.067	0.02	0.033
0.070	0.02	0.033
0.073	0.02	0.033
0.077	0.02	0.033
0.080	0.02	0.033
0.083	0.02	0.033
0.087	0.02	0.033
0.090	0.02	0.033
0.093	0.02	0.033
0.097	0.02	0.033
0.100	0.02	0.033
0.103	0.02	0.033
0.107	0.02	0.033
0.110	0.02	0.033
0.113	0.01	0.017
0.117	0.01	0.017
0.120	0.01	0.017
0.123	0.01	0.017
0.127	0.01	0.017
0.130	0.01	0.017
0.133	0.01	0.017
0.137	0.01	0.017
0.140	0.01	0.017
0.143	0.01	0.017
0.147	0.01	0.017
0.150	0.01	0.017
0.153	0.01	0.017
0.157	0.01	0.017
0.160	0.01	0.017
0.163	0.01	0.017
0.167	0.01	0.017
0.170	0.01	0.017
0.173	0.01	0.017
0.177	0.01	0.017
0.180	0.01	0.017
0.183	0.01	0.017
0.187	0.01	0.017
0.190	0.01	0.017
0.193	0.01	0.017
0.197	0.01	0.017
0.200	0.01	0.017
0.203	0.01	0.017
0.207	0.01	0.017
0.210	0.01	0.017
0.213	0.01	0.017
0.217	0.01	0.017
0.220	0.01	0.017
0.223	0.01	0.017
0.227	0.01	0.017
0.230	0.01	0.017
0.233	0.01	0.017
0.237	0.01	0.017
0.240	0.01	0.017
0.243	0.01	0.017
0.247	0.01	0.017
0.250	0.01	0.017
0.253	0.01	0.017
0.257	0.01	0.017
0.260	0.01	0.017
0.263	0.01	0.017
0.267	0.01	0.017
0.270	0.01	0.017
0.273	0.01	0.017
0.277	0.01	0.017
0.280	0.01	0.017
0.283	0.01	0.017
0.287	0.01	0.017
0.290	0.01	0.017
0.293	0.01	0.017
0.297	0.01	0.017
0.300	0.01	0.017
0.303	0.01	0.017
0.307	0.01	0.017
0.310	0.01	0.017
0.313	0.01	0.017
0.317	0.01	0.017
0.320	0.01	0.017
0.323	0.01	0.017
0.327	0.01	0.017
0.330	0.01	0.017
0.333	0.01	0.017
0.337	0.01	0.017
0.340	0.01	0.017
0.343	0.01	0.017
0.347	0.01	0.017
0.350	0.01	0.017
0.353	0.01	0.017
0.357	0.01	0.017
0.360	0.01	0.017
0.363	0.01	0.017
0.367	0.01	0.017
0.370	0.01	0.017
0.373	0.01	0.017
0.377	0.01	0.017
0.380	0.01	0.017
0.383	0.01	0.017
0.387	0.01	0.017
0.390	0.01	0.017
0.393	0.01	0.017
0.397	0.01	0.017
0.400	0.01	0.017
0.403	0.01	0.017
0.407	0.01	0.017
0.410	0.01	0.017
0.413	0.01	0.017
0.417	0.01	0.017
0.420	0.01	0.017
0.423	0.01	0.017
0.427	0.01	0.017
0.430	0.01	0.017
0.433	0.01	0.017
0.437	0.01	0.017
0.440	0.01	0.017
0.443	0.01	0.017
0.447	0.01	0.017
0.450	0.01	0.017
0.453	0.01	0.017
0.457	0.01	0.017
0.460	0.01	0.017
0.463	0.01	0.017
0.467	0.01	0.017
0.470	0.01	0.017
0.473	0.01	0.017
0.477	0.01	0.017
0.480	0.01	0.017
0.483	0.01	0.017
0.487	0.01	0.017
0.490	0.01	0.017
0.493	0.01	0.017
0.497	0.01	0.017
0.500	0.01	0.017
0.503	0.01	0.017
0.507	0.01	0.017
0.510	0.01	0.017
0.513	0.01	0.017
0.517	0.01	0.017
0.520	0.01	0.017
0.523	0.01	0.017
0.527	0.01	0.017
0.530	0.01	0.017
0.533	0.01	0.017
0.537	0.01	0.017
0.540	0.01	0.017
0.543	0.01	0.017
0.547	0.01	0.017
0.550	0.01	0.017
0.553	0.01	0.017
0.557	0.01	0.017
0.560	0.01	0.017
0.563	0.01	0.017
0.567	0.01	0.017
0.570	0.01	0.017
0.573	0.01	0.017
0.577	0.01	0.017
0.580	0.01	0.017
0.583	0.01	0.017
0.587	0.01	0.017
0.590	0.01	0.017
0.593	0.01	0.017
0.597	0.01	0.017
0.600	0.01	0.017

MW-43B #1

TIME(MIN)	DRAWDOWN	W/HO
0.000	2.06	1.000
0.003	1.83	0.888
0.007	1.71	0.830
0.010	1.53	0.743
0.013	1.41	0.684
0.017	1.27	0.617
0.020	1.12	0.544
0.023	0.98	0.476
0.027	0.85	0.413
0.030	0.73	0.354
0.033	0.62	0.301
0.037	0.50	0.243
0.040	0.42	0.204
0.043	0.34	0.165
0.047	0.27	0.131
0.050	0.21	0.102
0.053	0.17	0.083
0.057	0.12	0.058
0.060	0.09	0.044
0.063	0.06	0.029
0.067	0.04	0.019
0.070	0.02	0.010
0.073	0.01	0.005
0.077	0.00	0.000
0.080	0.00	0.000
0.083	-0.01	-0.005
0.087	-0.01	-0.005
0.090	-0.01	-0.005
0.093	-0.01	-0.005
0.097	0.00	0.000
0.100	0.00	0.000
0.103	0.00	0.000
0.107	0.01	0.005
0.110	0.01	0.005
0.113	0.01	0.005
0.117	0.01	0.005
0.120	0.01	0.005
0.123	0.01	0.005
0.127	0.02	0.010
0.130	0.02	0.010
0.133	0.02	0.010
0.137	0.02	0.010
0.140	0.02	0.010
0.143	0.02	0.010
0.147	0.02	0.010
0.150	0.02	0.010
0.153	0.02	0.010
0.157	0.02	0.010
0.160	0.02	0.010
0.163	0.02	0.010
0.167	0.02	0.010
0.170	0.02	0.010
0.173	0.02	0.010
0.177	0.02	0.010
0.180	0.02	0.010
0.183	0.02	0.010
0.187	0.02	0.010
0.190	0.02	0.010
0.193	0.01	0.005
0.197	0.01	0.005
0.200	0.01	0.005
0.203	0.01	0.005
0.207	0.00	0.000
0.210	0.01	0.005
0.213	0.00	0.000
0.217	0.01	0.005
0.220	0.01	0.005
0.223	0.01	0.005
0.240	0.01	0.005
0.257	0.01	0.005
0.273	0.00	0.000
0.290	0.00	0.000
0.307	0.00	0.000
0.323	-0.01	-0.005
0.340	0.00	0.000
0.357	0.00	0.000
0.373	0.00	0.000
0.390	0.00	0.000
0.407	0.00	0.000
0.423	0.00	0.000
0.440	0.00	0.000
0.457	0.00	0.000
0.473	0.00	0.000

MW-43C #1

TIME:MIN	DRAWDOWN	s/Ho
0.000	2.01	1.000
0.003	1.84	0.915
0.007	1.72	0.858
0.010	1.57	0.741
0.013	1.39	0.692
0.017	1.23	0.612
0.020	1.06	0.527
0.023	0.88	0.438
0.027	0.71	0.353
0.030	0.47	0.234
0.033	0.35	0.174
0.037	0.21	0.104
0.040	0.05	0.025
0.043	-0.09	-0.045
0.047	-0.22	-0.109
0.050	-0.34	-0.169
0.053	-0.45	-0.224
0.057	-0.55	-0.259
0.060	-0.60	-0.299
0.063	-0.66	-0.328
0.067	-0.71	-0.353
0.070	-0.74	-0.388
0.073	-0.76	-0.378
0.077	-0.77	-0.383
0.080	-0.76	-0.378
0.083	-0.77	-0.383
0.087	-0.79	-0.398
0.090	-0.70	-0.348
0.093	-0.63	-0.323
0.097	-0.51	-0.303
0.100	-0.56	-0.279
0.103	-0.48	-0.244
0.107	-0.44	-0.219
0.110	-0.38	-0.188
0.113	-0.31	-0.154
0.117	-0.25	-0.124
0.120	-0.19	-0.095
0.123	-0.13	-0.065
0.127	-0.08	-0.040
0.130	-0.03	-0.015
0.133	0.02	0.010
0.137	0.07	0.035
0.140	0.11	0.055
0.143	0.14	0.070
0.147	0.17	0.085
0.150	0.20	0.100
0.153	0.22	0.109
0.157	0.23	0.114
0.160	0.24	0.119
0.163	0.25	0.124
0.167	0.25	0.124
0.170	0.24	0.119
0.173	0.24	0.119
0.177	0.23	0.114
0.180	0.21	0.104
0.183	0.19	0.095
0.187	0.17	0.085
0.190	0.16	0.080
0.193	0.13	0.065
0.197	0.11	0.055
0.200	0.09	0.045
0.203	0.07	0.035
0.207	0.05	0.025
0.210	0.02	0.010
0.213	0.00	0.000
0.220	-0.02	-0.040
0.247	-0.12	-0.060
0.263	-0.12	-0.060
0.280	-0.09	-0.045
0.297	-0.06	-0.030
0.313	-0.02	-0.010
0.330	0.00	0.000
0.347	0.01	0.005
0.363	0.00	0.000
0.380	-0.01	-0.005
0.397	-0.03	-0.015
0.413	-0.04	-0.020
0.430	-0.04	-0.020
0.447	-0.04	-0.020
0.463	-0.03	-0.015

WELL 44A RUN 1

TIME(MIN)	DRAWDOWN	g/Hr
0.000	1.97	1.000
0.003	1.48	0.751
0.007	0.74	0.376
0.010	0.49	0.249
0.013	0.52	0.264
0.017	0.43	0.218
0.020	0.35	0.178
0.023	0.27	0.137
0.027	0.20	0.102
0.030	0.14	0.071
0.033	0.10	0.051
0.037	0.08	0.041
0.040	0.06	0.030
0.043	0.05	0.025
0.047	0.04	0.020
0.050	0.04	0.020
0.053	0.04	0.020
0.057	0.03	0.015
0.060	0.03	0.015
0.063	0.03	0.015
0.067	0.03	0.015
0.070	0.03	0.015
0.073	0.03	0.015
0.077	0.03	0.015
0.080	0.02	0.010
0.083	0.02	0.010
0.087	0.02	0.010
0.090	0.02	0.010
0.093	0.02	0.010
0.097	0.02	0.010
0.100	0.02	0.010
0.103	0.02	0.010
0.107	0.02	0.010
0.110	0.02	0.010
0.113	0.02	0.010
0.117	0.02	0.010
0.120	0.02	0.010
0.123	0.02	0.010
0.127	0.02	0.010
0.130	0.02	0.010
0.133	0.02	0.010
0.137	0.02	0.010
0.773	0.02	0.010

WELL 44C R04 \

TIME(H:MM)	DRAWDOWN	s/Ho
0.000	1.40	1.000
0.003	1.48	0.925
0.007	1.36	0.850
0.010	1.26	0.799
0.013	1.14	0.713
0.017	1.03	0.644
0.020	0.92	0.575
0.023	0.81	0.506
0.027	0.71	0.444
0.030	0.62	0.388
0.033	0.54	0.338
0.037	0.46	0.298
0.040	0.38	0.258
0.043	0.35	0.219
0.047	0.28	0.175
0.050	0.26	0.163
0.053	0.21	0.131
0.057	0.18	0.113
0.060	0.15	0.094
0.063	0.13	0.081
0.067	0.11	0.069
0.070	0.09	0.056
0.073	0.08	0.050
0.077	0.07	0.044
0.080	0.06	0.037
0.083	0.05	0.031
0.087	0.04	0.025
0.090	0.04	0.025
0.093	0.04	0.025
0.097	0.03	0.019
0.100	0.03	0.019
0.103	0.02	0.012
0.107	0.02	0.012
0.110	0.02	0.012
0.113	0.02	0.012
0.117	0.02	0.012
0.120	0.02	0.012
0.123	0.02	0.012
0.127	0.02	0.012
0.130	0.01	0.006
0.133	0.01	0.006
0.137	0.01	0.006
0.140	0.01	0.006
0.143	0.01	0.006
0.147	0.01	0.006
0.150	0.01	0.006
0.153	0.01	0.006
0.157	0.01	0.006
0.160	0.01	0.006
0.163	0.01	0.006
0.167	0.01	0.006
0.170	0.01	0.006
0.173	0.01	0.006
0.177	0.01	0.006
0.180	0.01	0.006
0.183	0.01	0.006

WELL 45A RUN2

TIME (MIN)	DRAWDOWN	Q/GAL
0.000	1.11	1.000
0.003	0.77	0.494
0.007	0.50	0.450
0.010	0.41	0.369
0.013	0.29	0.261
0.017	0.18	0.162
0.020	0.10	0.090
0.023	0.06	0.054
0.027	0.04	0.036
0.030	0.04	0.036
0.033	0.03	0.027
0.037	0.03	0.027
0.040	0.03	0.027
0.043	0.03	0.027
0.047	0.03	0.027
0.050	0.03	0.027
0.053	0.03	0.027
0.057	0.02	0.018
0.060	0.02	0.018
0.063	0.02	0.018
0.067	0.02	0.018
0.070	0.02	0.018
0.073	0.02	0.018
0.077	0.02	0.018
0.080	0.02	0.018
0.083	0.02	0.018

WELL 47A RUN1

TI	HIM	DRAWDOWN	s/No
0.000	1.16	1.000	
0.003	0.96	0.838	
0.007	0.82	0.534	
0.010	0.59	0.421	
0.013	0.47	0.403	
0.017	0.37	0.329	
0.020	0.27	0.233	
0.023	0.18	0.155	
0.027	0.11	0.095	
0.030	0.07	0.060	
0.033	0.04	0.034	
0.037	0.03	0.026	
0.040	0.03	0.026	
0.043	0.02	0.017	
0.047	0.02	0.017	
0.050	0.02	0.017	
0.053	0.02	0.017	
0.057	0.02	0.017	
0.060	0.02	0.017	
0.063	0.02	0.017	
0.067	0.02	0.017	
0.070	0.02	0.017	
0.073	0.02	0.017	
0.077	0.02	0.017	
0.080	0.02	0.017	
0.083	0.02	0.017	
0.087	0.02	0.017	
0.090	0.02	0.017	
0.093	0.02	0.017	
0.097	0.01	0.009	
0.100	0.01	0.009	
0.103	0.01	0.009	
0.107	0.01	0.009	
0.110	0.01	0.009	
0.113	0.01	0.009	
0.117	0.01	0.009	
0.120	0.01	0.009	
0.123	0.01	0.009	
0.127	0.01	0.009	
0.130	0.01	0.009	
0.133	0.01	0.009	
0.137	0.01	0.009	
0.140	0.01	0.009	
0.143	0.01	0.009	
0.147	0.01	0.009	
0.150	0.01	0.009	
0.153	0.01	0.009	
0.157	0.01	0.009	
0.160	0.01	0.009	
0.167	0.01	0.009	

WELL 478 RUN1

TIME (MIN)	DRAWDOWN	u/Ho
0.000	1.21	1.000
0.003	1.11	0.917
0.017	0.98	0.810
0.030	0.84	0.694
0.033	0.69	0.570
0.037	0.55	0.455
0.040	0.40	0.331
0.023	0.28	0.231
0.077	0.18	0.149
0.10	0.10	0.083
0.033	0.03	0.025
0.037	-0.02	-0.017
0.10	-0.05	-0.041
0.13	-0.07	-0.058
0.047	-0.07	-0.058
0.10	-0.07	-0.058
0.13	-0.06	-0.050
0.037	-0.04	-0.033
0.040	-0.02	-0.017
0.13	0.00	0.000
0.007	0.02	0.017
0.070	0.04	0.033
0.13	0.05	0.041
0.13	0.05	0.041

WELL 49A RUM 2

TI	HIH)	DRAWDOWN	s/s ₀
0.000	0.83	1.000	
0.003	0.58	0.699	
0.007	0.46	0.554	
0.010	0.41	0.494	
0.013	0.35	0.398	
0.017	0.24	0.289	
0.020	0.15	0.181	
0.023	0.08	0.096	
0.027	0.04	0.048	
0.030	0.00	0.000	
0.033	-0.02	-0.024	
0.037	-0.02	-0.024	
0.040	-0.02	-0.024	
0.043	-0.02	-0.024	
0.047	-0.01	-0.012	
0.050	-0.01	-0.012	
0.053	0.00	0.000	
0.057	0.00	0.000	
0.060	0.01	0.012	
0.063	0.01	0.012	
0.067	0.01	0.012	
0.070	0.01	0.012	
0.073	0.01	0.012	
0.077	0.01	0.012	
0.080	0.01	0.012	
0.083	0.01	0.012	
0.087	0.01	0.012	
0.090	0.01	0.012	
0.093	0.01	0.012	
0.097	0.01	0.012	
0.100	0.01	0.012	
0.103	0.01	0.012	
0.107	0.01	0.012	
0.110	0.01	0.012	

WELL 454 RUN2

TIME(MIN)	DRAWDOWN	s/Ro
0.000	1.11	1.000
0.003	0.77	0.694
0.007	0.50	0.450
0.010	0.41	0.369
0.013	0.29	0.261
0.017	0.18	0.162
0.020	0.10	0.090
0.023	0.06	0.054
0.027	0.04	0.036
0.030	0.04	0.036
0.033	0.03	0.027
0.037	0.03	0.027
0.040	0.03	0.027
0.043	0.03	0.027
0.047	0.03	0.027
0.050	0.03	0.027
0.053	0.03	0.027
0.057	0.02	0.018
0.060	0.02	0.018
0.063	0.02	0.018
0.067	0.02	0.018
0.070	0.02	0.018
0.073	0.02	0.018
0.077	0.02	0.018
0.080	0.02	0.018
0.267	0.02	0.018

WELL 47A RUN1

TIME(H:MM)	DRAWDOWN	s/No
0.000	1.16	1.000
0.003	0.96	0.823
0.007	0.62	0.534
0.010	0.50	0.431
0.013	0.47	0.405
0.017	0.37	0.319
0.020	0.27	0.233
0.023	0.18	0.155
0.027	0.11	0.095
0.030	0.07	0.060
0.033	0.04	0.034
0.037	0.03	0.026
0.040	0.03	0.026
0.043	0.02	0.017
0.047	0.02	0.017
0.050	0.02	0.017
0.053	0.02	0.017
0.057	0.02	0.017
0.060	0.02	0.017
0.063	0.02	0.017
0.067	0.02	0.017
0.070	0.02	0.017
0.073	0.02	0.017
0.077	0.02	0.017
0.080	0.02	0.017
0.083	0.02	0.017
0.087	0.02	0.017
0.090	0.02	0.017
0.093	0.02	0.017
0.097	0.01	0.009
0.100	0.01	0.009
0.103	0.01	0.009
0.107	0.01	0.009
0.110	0.01	0.009
0.113	0.01	0.009
0.117	0.01	0.009
0.120	0.01	0.009
0.123	0.01	0.009
0.127	0.01	0.009
0.130	0.01	0.009
0.133	0.01	0.009
0.137	0.01	0.009
0.140	0.01	0.009
0.143	0.01	0.009
0.147	0.01	0.009
0.150	0.01	0.009
0.153	0.01	0.009
0.157	0.01	0.009
0.160	0.01	0.009
0.167	0.01	0.009

WELL 478 RUN1

TIME(MIN)	BRANDOWN	s/No
0.000	1.21	1.000
0.003	1.11	0.917
0.007	0.98	0.810
0.010	0.84	0.694
0.013	0.69	0.570
0.017	0.55	0.455
0.020	0.40	0.331
0.023	0.28	0.221
0.027	0.18	0.149
0.030	0.10	0.083
0.033	0.03	0.025
0.037	-0.01	-0.017
0.040	-0.05	-0.041
0.043	-0.07	-0.058
0.047	-0.07	-0.058
0.050	-0.07	-0.058
0.053	-0.06	-0.050
0.057	-0.04	-0.033
0.060	-0.02	-0.017
0.063	0.00	0.000
0.067	0.02	0.017
0.070	0.04	0.032
0.073	0.05	0.041
0.793	0.05	0.041

WELL 49A RUN 2

TIME(MIN)	GRANDOWN	s/ro
0.000	0.83	1.000
0.003	0.50	0.699
0.007	0.46	0.554
0.010	0.41	0.494
0.013	0.33	0.398
0.017	0.24	0.289
0.020	0.15	0.181
0.023	0.08	0.096
0.027	0.04	0.048
0.030	0.00	0.000
0.033	-0.02	-0.024
0.037	-0.02	-0.024
0.040	-0.02	-0.024
0.043	-0.02	-0.024
0.047	-0.01	-0.012
0.050	-0.01	-0.012
0.053	0.00	0.000
0.057	0.00	0.000
0.060	0.01	0.012
0.063	0.01	0.012
0.067	0.01	0.012
0.070	0.01	0.012
0.073	0.01	0.012
0.077	0.01	0.012
0.080	0.01	0.012
0.083	0.01	0.012
0.087	0.01	0.012
0.090	0.01	0.012
0.093	0.01	0.012
0.097	0.01	0.012
0.100	0.01	0.012
0.103	0.01	0.012
0.107	0.01	0.012
0.710	0.01	0.012