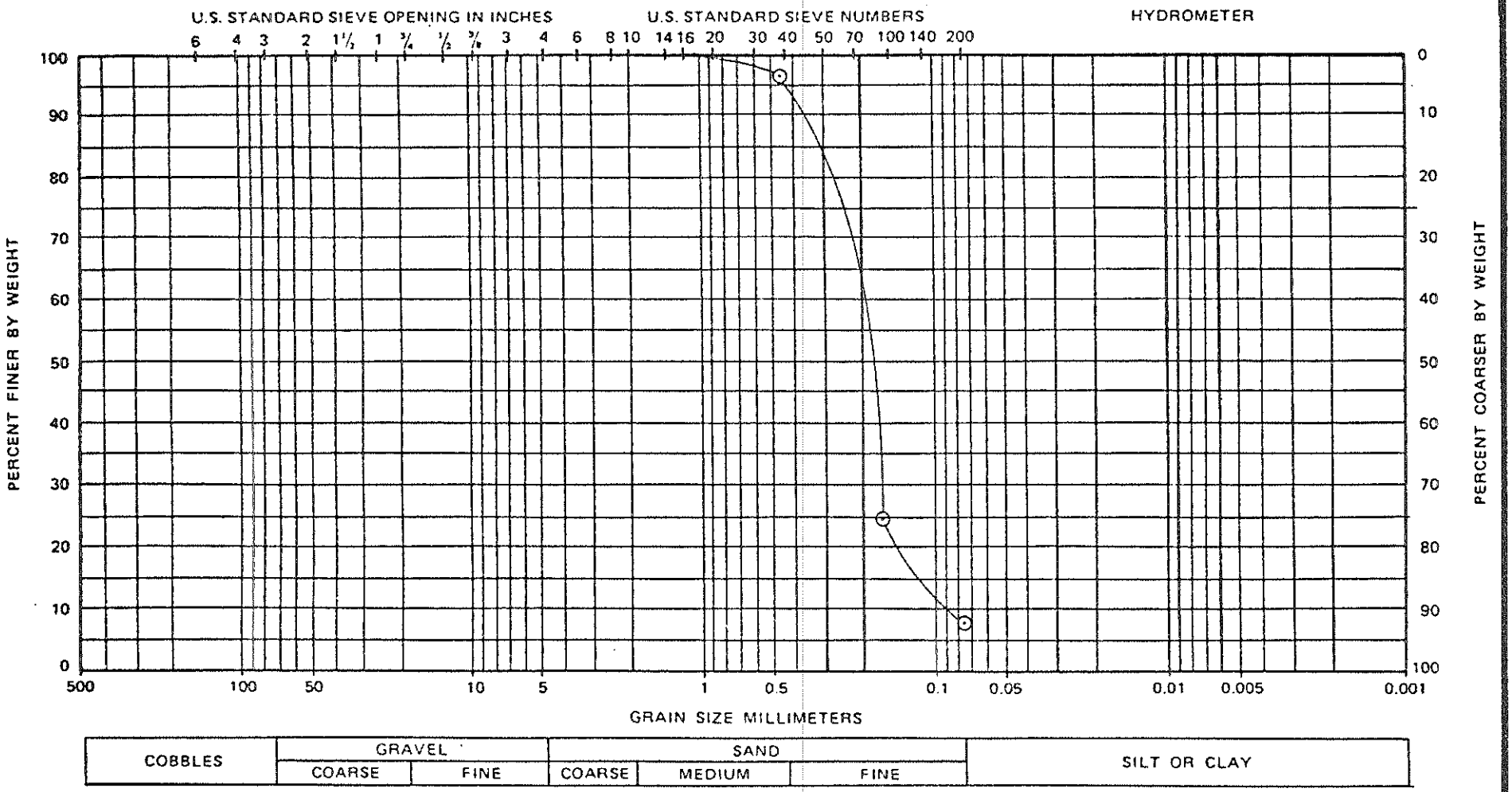
APPENDIX G

Grain Size Analysis and Laboratory Permeability Testing Results from 1986 Soil Boring Program

GRAIN SIZE ANALYSIS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
MW-3P		SAND w/SILT, fine	17.5			
S-2	50.0'	grained, light brown				
		(SP-SM)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 8/15/86 PROJECT NO: 86A22

Foth & Van Dyke Industrial Inc.

Waste/Energy Division

FORM #317 W/E (4-85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: July 10 to 12, 1986

REPORT NO.: FR-1

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Report SOURCE:

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4				
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	4.1	3.3	96.7	
No. 50				
No. 80				
No. 100	89.3	72.0	24.7	
No. 200	20.6	16.6	8.1	
Pan .9 9.2	10.1	8.1		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 124.1 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED FROM: from Boring MW-3P

IDENTIFICATION: Sample #2 @ 50.0'

DATE SAMPLED: June 1986

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

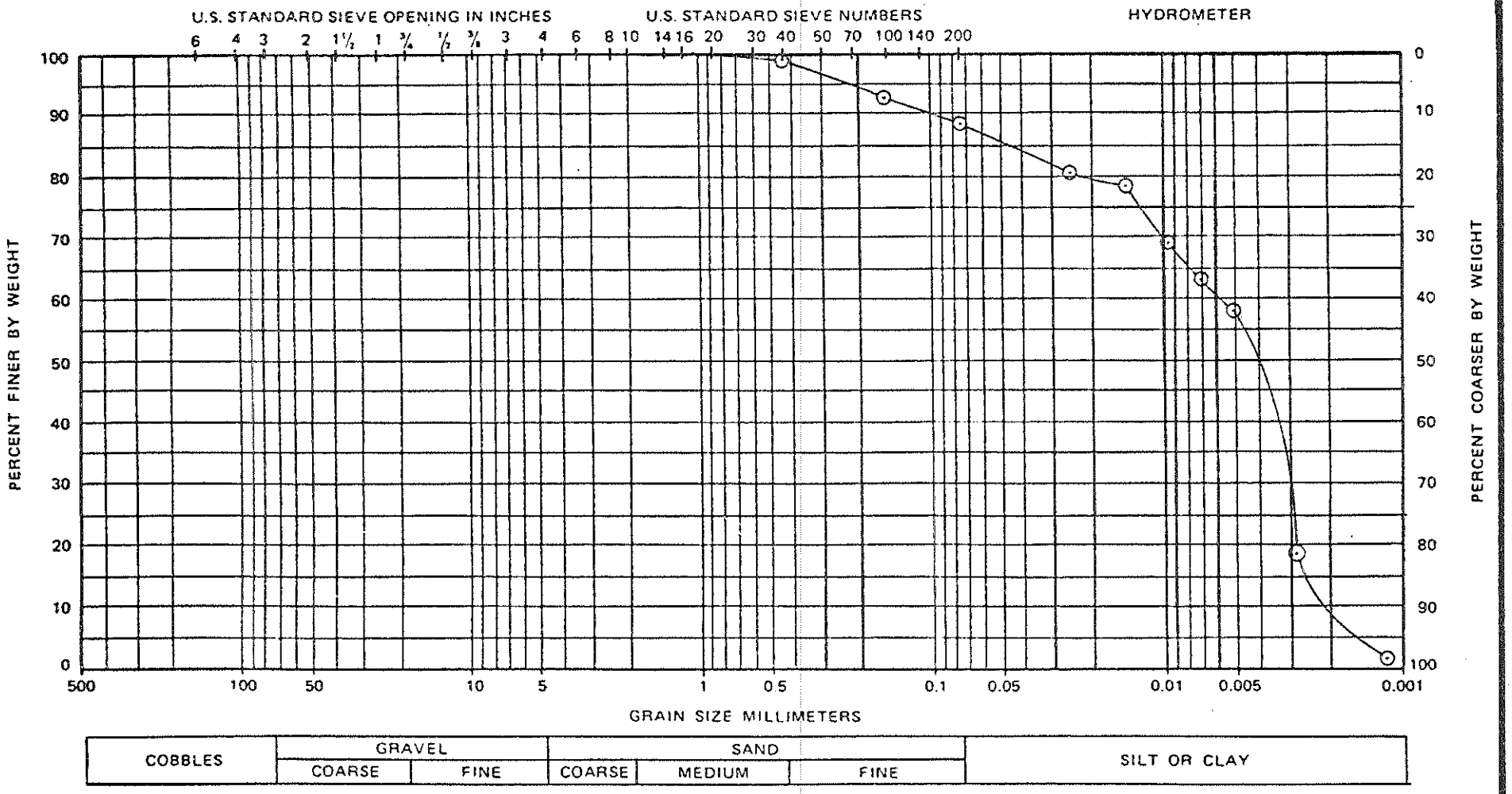
DRY RODDED WGT:

WASHED GRADATION: yes

PERCENT PASSING NO. 200 SIEVE 8.1 %

CHECKED BY:

GRAIN SIZE ANALYSIS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
MW-6		LEAN CLAY, reddish	25.4			
S-10	45'	brown				
		(CL)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 8/15/86 PROJECT NO: 86A22

Foth & Van Dyke Industrial Inc.

Waste/Energy Division

FORM F.O. W/E (4 85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.: _____

JOB NO.: 86A22

DATE: July 10 to 12, 1986

REPORT NO.: FR-4

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR: _____

PROJECT: Adams County Feasibility Study SOURCE: _____

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1 1/2-Inch				
1-Inch				
3/4-Inch				
1/2-Inch				
3/8-Inch				
No. 4				
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	13	14	99.6	
No. 50				
No. 80				
No. 100	5.5	6.8	92.8	
No. 200	3.6	4.5	88.3	
Pan .4 70.6	71.0	88.3		
Fineness Modulus				

RECEIVED AT LABORATORY: Junr 23, 1986

QUANTITY REPRESENTED: 80.4 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED ~~FORM~~ from Boring #MW-6

IDENTIFICATION: Sample #10 @ 45'

DATE SAMPLED: June 1986

INTENDED USE: _____

REMARKS:

ORGANIC MATTER, COLORIMETRIC: _____

COAL AND LIGNITE: _____

CLAY LUMPS: _____

CHERT: _____

SOFT PARTICLES: _____

PERCENT ABSORPTION: _____

SPECIFIC GRAVITY: _____

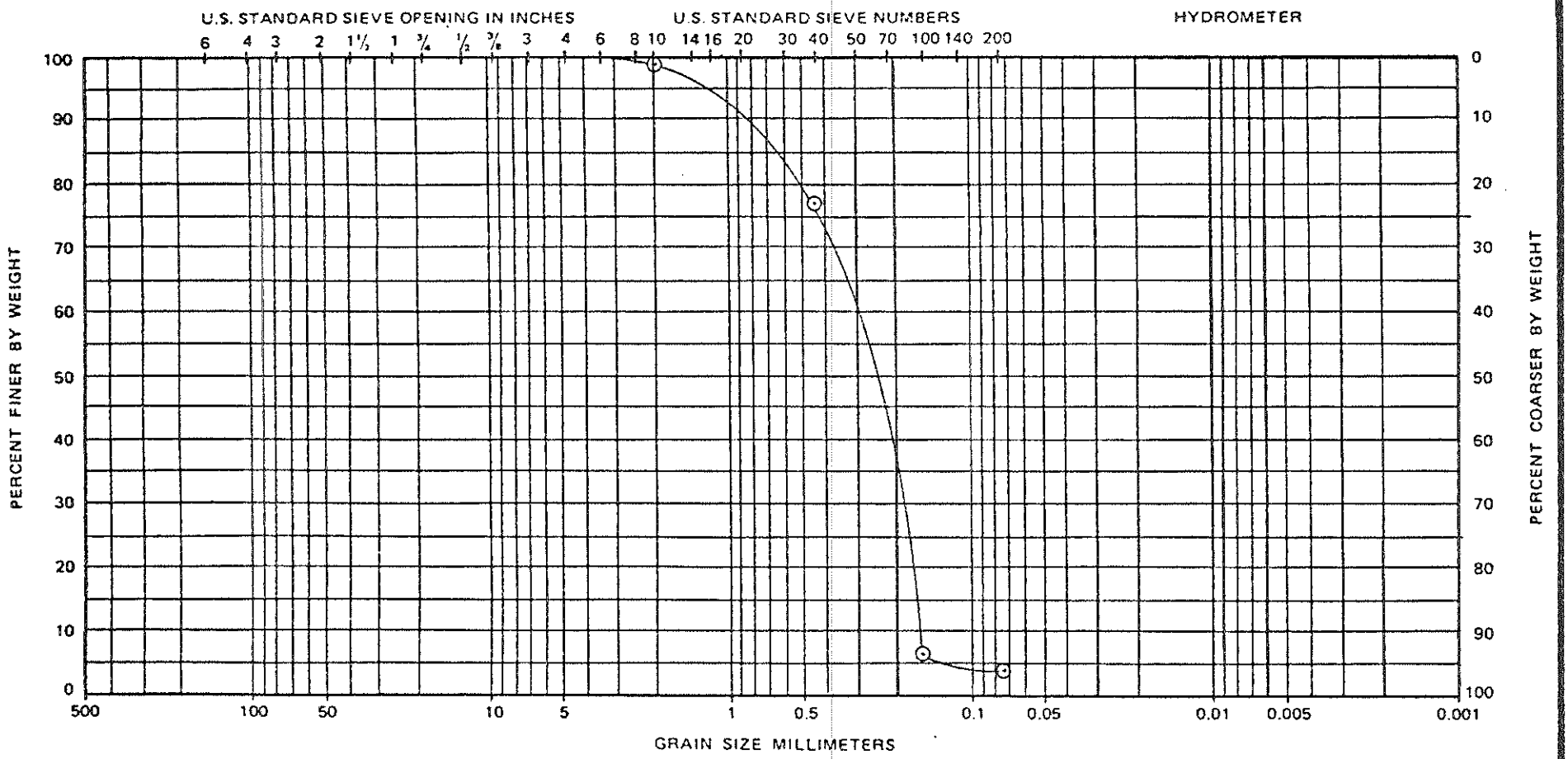
DRY RODDED WGT: _____

WASHED GRADATION: yes

PERCENT PASSING NO. 200 SIEVE 88.3 %

CHECKED BY: _____

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
MW-6P		SAND, fine to medium	19.7			
S-7	85'	grained, brown				
		(SP)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 8/15/86 PROJECT NO: 86A22

Foth & Van Dyke Industrial Inc.

Waste/Energy Division

FORM #317 W/L (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: July 10 to 12, 1986

REPORT NO.: FR-2

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Study SOURCE:

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4	0	0	100	
No. 8				
No. 10	1.2	.8	99.2	
No. 16				
No. 20				
No. 30				
No. 40	33.3	22.4	76.8	
No. 50				
No. 80				
No. 100	104.4	70.2	6.6	
No. 200	3.3	2.2	4.4	
Pan .2 6.4	6.6	4.4		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 148.7 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED ~~FORM~~: from Boring MW-6P

IDENTIFICATION: Samply #7 @ 85'

DATE SAMPLED: June 1986

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

DRY RODDED WGT:

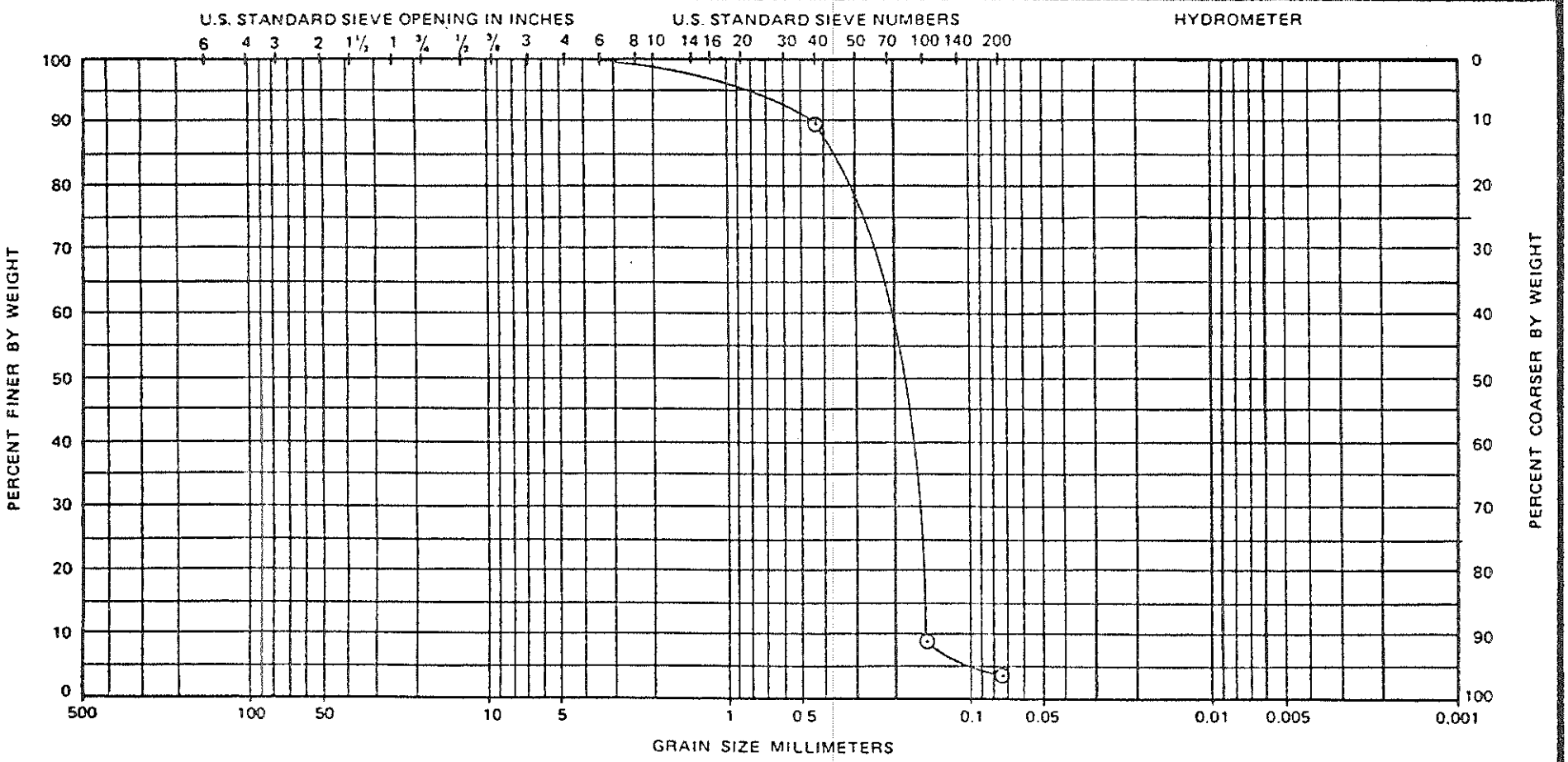
WASHED GRADATION: yes

PERCENT PASSING NO. 200 SIEVE 4.4 %

CHECKED BY:

FORM #329A SL (5/85)

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
MW-7P		SAND, fine grained	17.9			
S-4	55'	light brown				
		(SP)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT: Adams County Feasibility Study

DATE: 8/15/86

PROJECT NO: 86A22

Foth & Van Dyke Industrial Inc.

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.: _____

JOB NO.: 86A22

DATE: July 10 to 12, 1986

REPORT NO.: FR-3

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR: _____

PROJECT: Adams County Feasibility Study SOURCE: _____

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1 1/2-Inch				
1-Inch				
3/4-Inch				
1/2-Inch				
3/8-Inch				
No. 4	0	0	100	
No. 8				
No. 10	.1	.1	99.9	
No. 16				
No. 20				
No. 30				
No. 40	15.2	10.5	89.4	
No. 50				
No. 80				
No. 100	116.0	80.3	9.1	
No. 200	7.4	5.1	4.0	
Pan .2 5.5	5.7	3.9		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 144.3 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED ~~FORM~~: from Boring MW-7P

IDENTIFICATION: Sample #4 @ 55.0'

DATE SAMPLED: June 1986

INTENDED USE: _____

REMARKS:

ORGANIC MATTER, COLORIMETRIC: _____

COAL AND LIGNITE: _____

CLAY LUMPS: _____

CHERT: _____

SOFT PARTICLES: _____

PERCENT ABSORPTION: _____

SPECIFIC GRAVITY: _____

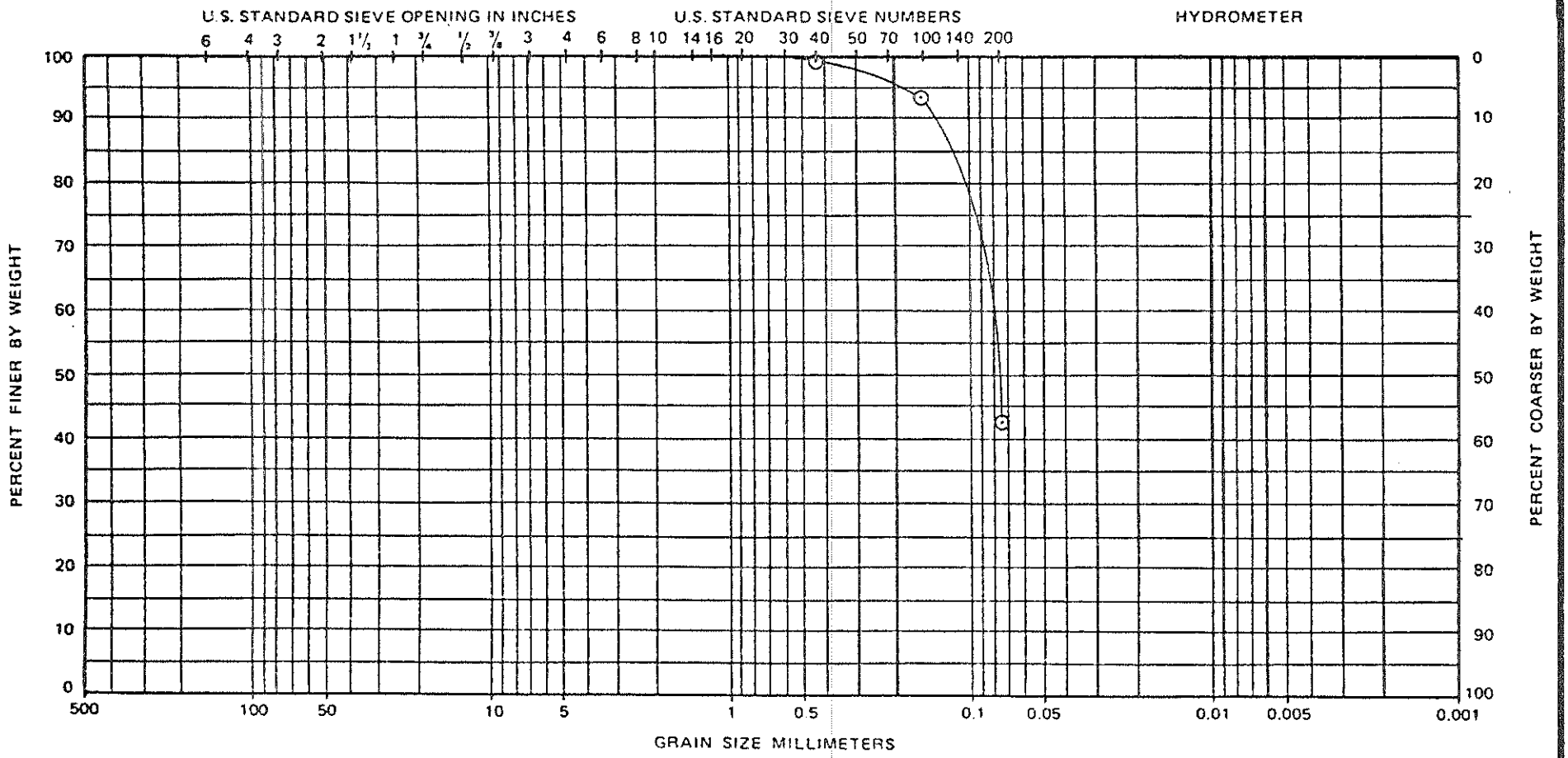
DRY RODDED WGT: _____

WASHED GRADATION: yes

PERCENT PASSING NO. 200 SIEVE 4.0 %

CHECKED BY: _____

GRAIN SIZE ANALYSIS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
MW-8		SILTY SAND, fine	15.8			
S-8	40.0'	grained, light brown				
		(SM)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 8/15/86 PROJECT NO: 86A22

Foth & Van Dyke Industrial Inc.
Waste/Energy Division

FORM #317 W/L (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.: _____

JOB NO.: 86A22

DATE: July 10 & 11, 1986

REPORT NO.: FR-5

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR: _____

PROJECT: Adams County Feasibility Study SOURCE: _____

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1 1/2-Inch				
1-Inch				
3/4-Inch				
1/2-Inch				
3/8-Inch				
No. 4				
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	.1	.1	99.9	
No. 50				
No. 80				
No. 100	7.8	6.3	93.6	
No. 200	63.2	51.1	42.5	
Pan 12.2 40.5	52.7	42.5		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 123.8 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED FROM: from Boring MW-8

IDENTIFICATION: Sample #8 @ 40.0'

DATE SAMPLED: June 1986

INTENDED USE: _____

REMARKS:

ORGANIC MATTER, COLORIMETRIC: _____

COAL AND LIGNITE: _____

CLAY LUMPS: _____

CHERT: _____

SOFT PARTICLES: _____

PERCENT ABSORPTION: _____

SPECIFIC GRAVITY: _____

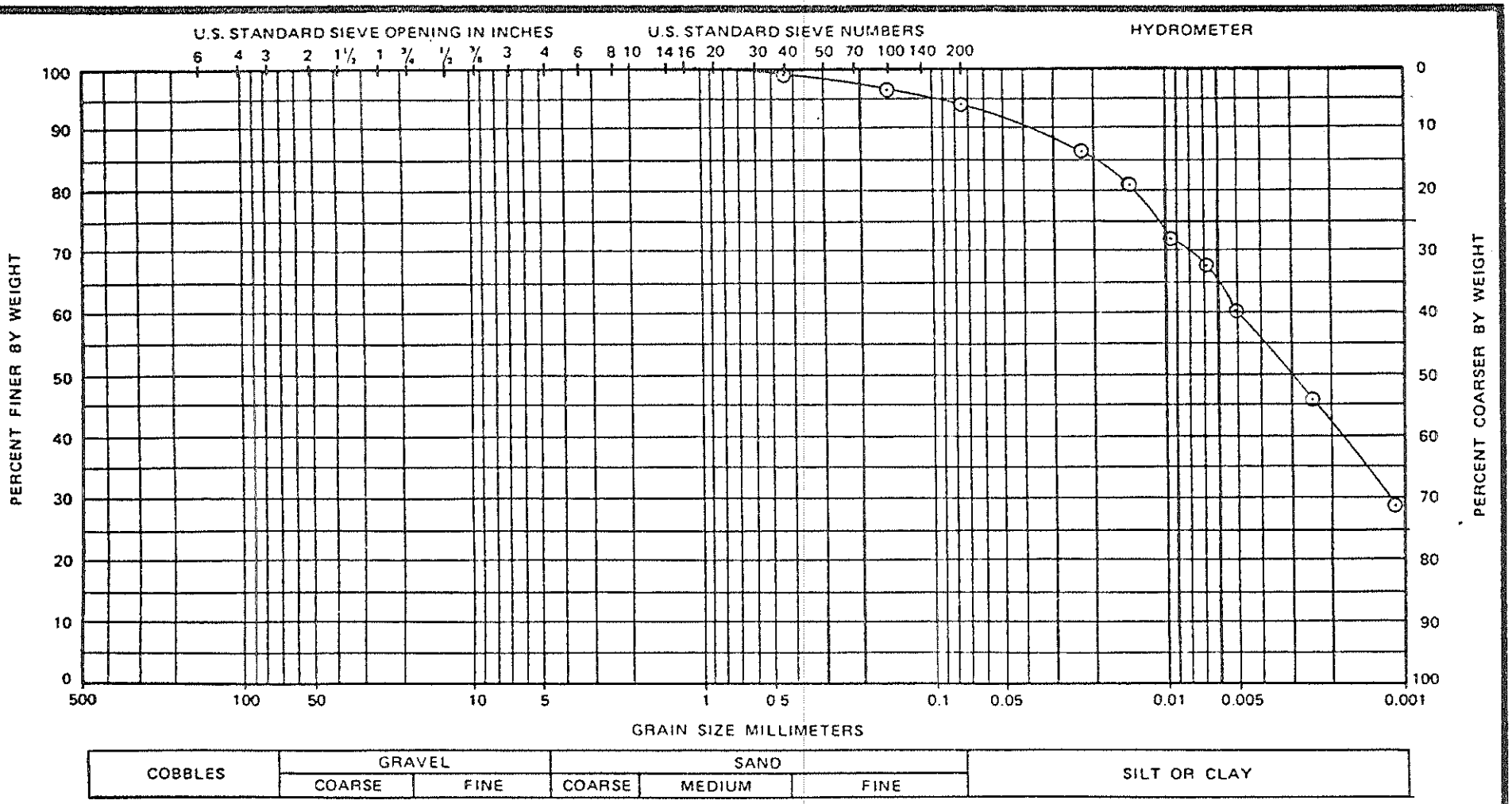
DRY RODDED WGT: _____

WASHED GRADATION: yes

PERCENT PASSING NO. 200 SIEVE 42.5 %

CHECKED BY: _____

GRAIN SIZE ANALYSIS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
MW-8		LEAN CLAY, reddish	31.1			
S-10	50'	brown				
		(CL)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 8/15/86

PROJECT NO: 86A22

Foth & Van Dyke Industrial Inc.

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: July 17 to 21, 1986

REPORT NO.: FR-9

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Study SOURCE:

REPORT OF TESTS OF: Proposed Material for Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4				
No. 8				
No. 10	---	---	100	
No. 16				
No. 20				
No. 30				
No. 40	.3	.4	99.6	
No. 50				
No. 80				
No. 100	2.2	3.2	96.4	
No. 200	1.5	2.2	94.2	
Pan	64.2	94.1		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 68.2 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED ~~FORM~~: from Boring #MW-8

IDENTIFICATION: Sample #10 @ 50'

DATE SAMPLED:

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

DRY RODDED WGT:

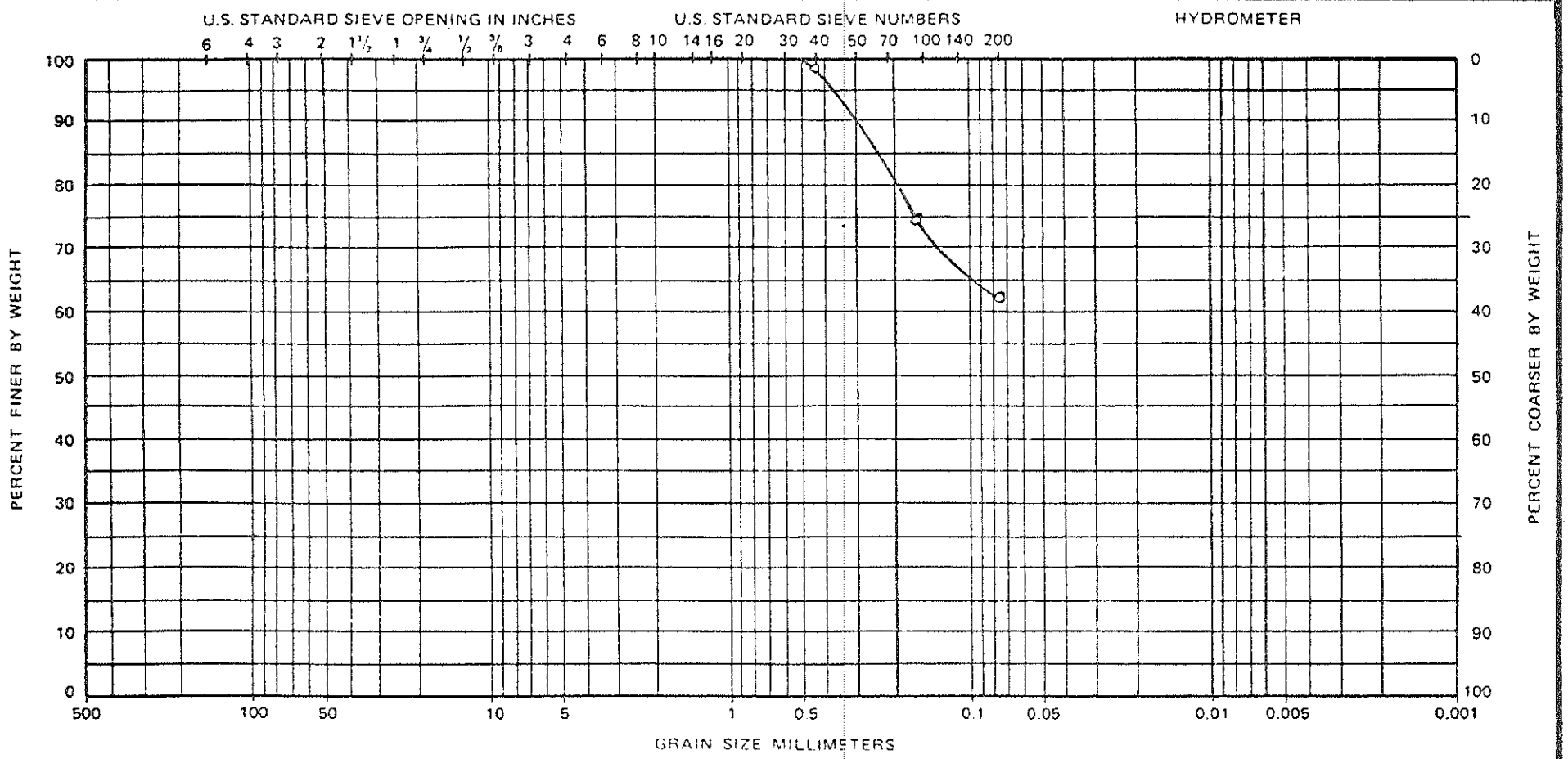
WASHED GRADATION: yes

PERCENT PASSING NO. 200 SIEVE 94.2 %

CHECKED BY:

FORM #329A SL (5/85)

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring MW-8	50-55'	SANDY LEAN CLAY, brown				
		(CL)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 9/19/86

PROJECT NO: 86A22

Foth & Van Dyke

Waste/Energy Division

FORM #317 W. E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.: _____
JOB NO.: 86A22
DATE: September 12-16, 1986
REPORT NO.: FR-18

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR: _____
PROJECT: Adams County Feasibility Study SOURCE: _____
REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4				
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	3.6	1.1	98.9	
No. 50				
No. 80				
No. 100	79.0	24.6	74.3	
No. 200	38.4	12.0	62.3	
Pan 200.0 .3	200.3	62.3		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986
QUANTITY REPRESENTED: 321.3 grams
SUBMITTED BY: Janis Schallhorn of F&VD
SAMPLED ~~FORM~~ From: Boring MW-8
IDENTIFICATION: Depth 50-55'
DATE SAMPLED: June 1986
INTENDED USE: _____

REMARKS:

ORGANIC MATTER, COLORIMETRIC: _____
COAL AND LIGNITE: _____
CLAY LUMPS: _____
CHERT: _____
SOFT PARTICLES: _____
PERCENT ABSORPTION: _____
SPECIFIC GRAVITY: _____
DRY RODDED WGT: _____
WASHED GRADATION: Yes
PERCENT PASSING NO. 200 SIEVE 62.3 %

CHECKED BY: _____

FORM #329A SL (5/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

FALLING/CONSTANT HEAD TEST

Recompacted Perm

No. of Layers	4
No. of Blows/Hammer Size	25/10#
Vol. of Water Added (c.c.)	
Wt. of Cyl. + Soil, Wm (lbs.)	5409
Wt. of Cyl., Wc (lbs.)	3357
Wt. of Soil W (lbs.)	2052
Average Water Content, w(%)	11.1
Moist Density, FM (lbs./ft.^{3})	135.7
Dry Density, FM (dry) (lbs./ft.^{3})	122.2
% Compaction	95

JOB NO.:	86A22 FR
BORING NO.:	MW-8
SAMPLE NO.:	
DEPTH:	50-55'
TUBE DIAMETER	A = 4.0"
LENGTH OF SAMPLE	4.50
DIST. FROM TOP OF TUBE TO LOWER WATER LEVEL	33.2 cm
DATE:	September 13-19, 1986
TECH. NAME:	RRR

TIME AM/PM DATE	TIME INTERVAL (MIN.)	H @ START OF TEST	H @ FINISH	TARE	TOTAL WT. TARE + WATER, GR.	WEIGHT OF WATER, GR.	K CM/SEC.
12:25 AM (PM) 9/13/86	(3985)	@ 3 psi					
06:50 (AM) PM 9/16/86	239100	100.0	96.6	207.3	239.4	32.1	2.13×10^{-8}
06:50 (AM) PM 9/16/86	(1480)	@ 3 psi					
07:30 (AM) PM 9/17/86	88800	96.6	94.6	207.3	240.1	32.8	3.40×10^{-8}
07:30 (AM) PM 9/17/86	(1432)	@ 3 psi					
07:22 (AM) PM 9/18/86	85920	94.6	93.1	207.3	234.5	27.2	2.65×10^{-8}
07:22 (AM) PM 9/18/86	(583)	@ 3 psi					
17:05 AM (PM) 9/18/86	34980	93.1	92.5	207.3	2 ↕		3.49×10^{-8}
17:05 AM (PM) 9/18/86	(812)	@ 3 psi					
06:37 (AM) PM 9/19/86	48720	92.5	91.7	207.3	233.0	25.7	2.82×10^{-8}
____ AM/PM ____							
____ AM/PM ____							
____ AM/PM ____				Average of last 4 readings			3.09×10^{-8}
____ AM/PM ____				Perm Rate			3×10^{-8}
____ AM/PM ____							
____ AM/PM ____							
____ AM/PM ____							
____ AM/PM ____							
____ AM/PM ____							
____ AM/PM ____							
____ AM/PM ____							

Foth & Van Dyke

Engineers/Architects

2737 S. Ridge Road P. O. Box 19012 Green Bay, Wisconsin 54307-9012 414/497-2500

COMPACTION CONTROL REPORT

DATE: 9/19/86 JOB NAME: Adams County Feasibility Study SCOPE I.D. #: 86A22

1. LABORATORY COMPACTION TEST DATA

A. DESCRIPTION OF SOIL: SANDY LEAN CLAY, brown (CL)

MATERIAL MARK FR-18 CLASSIFICATION AASHO

SOURCE OF MATERIAL Boring MW-8 Depth 50-55' BPR

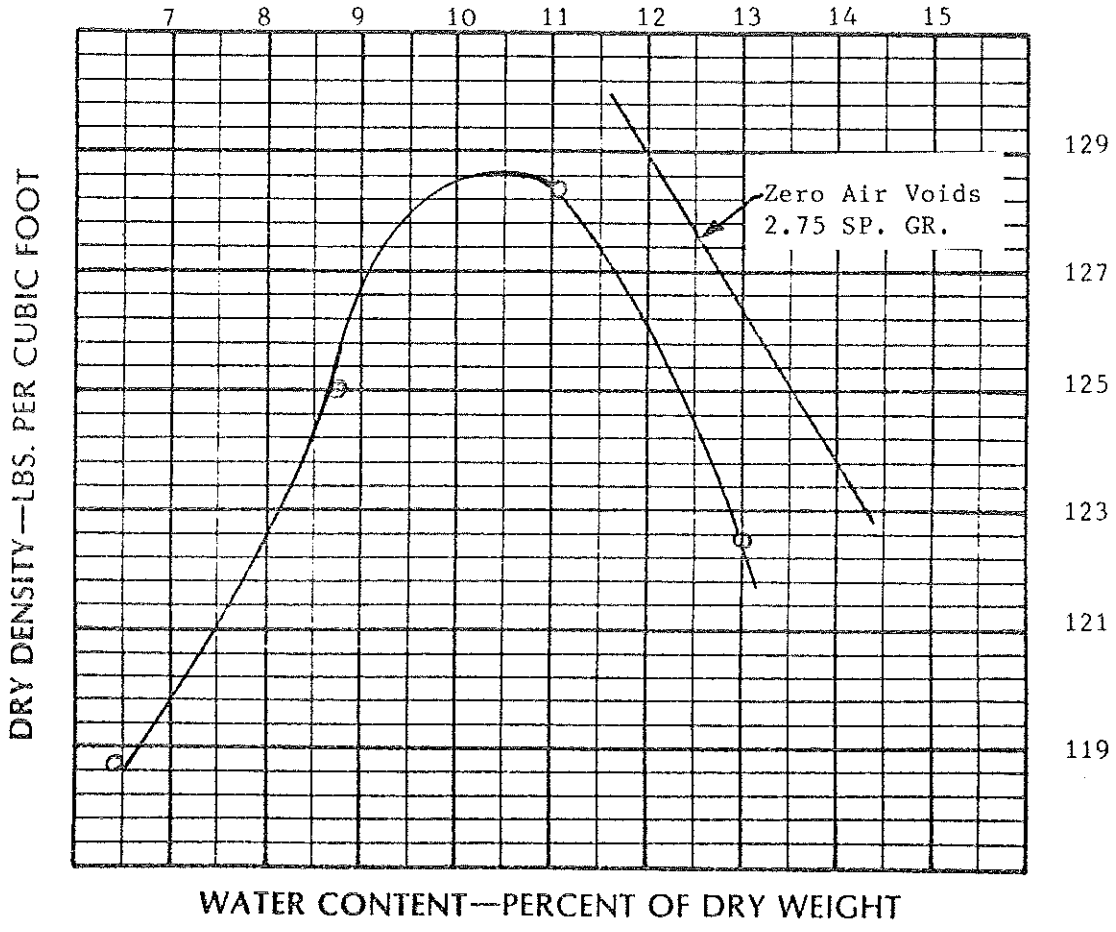
NATURAL WATER CONTENT ____ % NATURAL DRY DENSITY ____ PCF SPECIFIC GRAVITY ____

LIQUID LIMIT ____ % PLASTIC LIMIT ____ % PLASTICITY INDEX ____

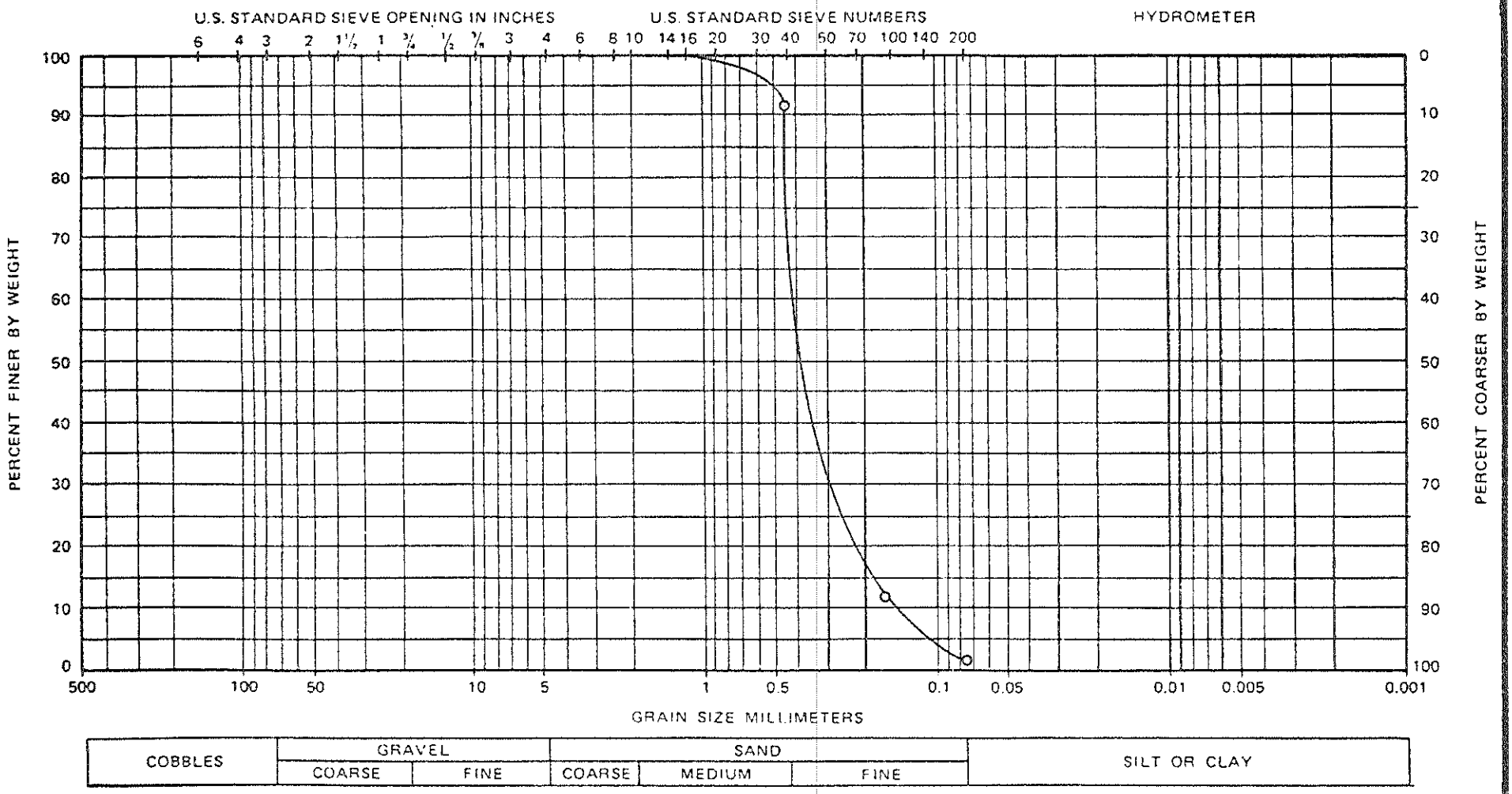
B. TEST PROCEDURE USED: ASTM D1557 Method "A"

C. TEST RESULTS: OPTIMUM WATER CONTENT 10.5 %

MAXIMUM DRY DENSITY 128.8 PCF (AT A WET DENSITY OF 142.3 PCF)



GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring MW-9	10'	SAND, fine grained, brown (SP)				

PROJECT: Adams County Feasibility Study

DATE: 9-12-86 | PROJECT NO: 86A22

DRAWN BY: RRR | APPROVED BY: | NOTES:

Foth & Van Dyke
Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: September 10 to 11, 1986

REPORT NO.: FR-19

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Study SOURCE:

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4				
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	36.1	8.5	91.5	
No. 50				
No. 80				
No. 100	337.8	80.0	11.5	
No. 200	41.7	9.9	1.6	
Pan	6.7	1.6		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 422.3 grams

SUBMITTED BY: Janis Schallhorn of Foth & Van Dyke

SAMPLED FROM: Boring MW-9

IDENTIFICATION: Depth 10'

DATE SAMPLED: June, 1986

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

DRY RODDED WGT:

WASHED GRADATION: Yes

PERCENT PASSING NO. 200 SIEVE 1.6 %

CHECKED BY:

FORM #329A SL (5/85)

Foth & Van Dyke
Engineers/Architects

2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT: Adams County Study

JOB NO.: 86A22 FR

DATE: September 10, 1986

PERMEABILITY TEST
CONSTANT HEAD

SAMPLE NO.: FR-19 Boring MW-9 at 10' depth

SOIL DESCRIPTION: Sand, fine grained, brown (SP)

% COMPACTION - 90

COMPACTED DRY DENSITY = 100.1 pct

MOISTURE = 1.7%

SAMPLE DIAMETER = 4.00"

SAMPLE HEIGHT = 4.5625 (4 9/16")

RUN NO.	HEAD, ~~INCHES~~ CM.	DURATION, ~~MINUTES~~ Seconds	PERMEABILITY, CM/SEC.	REMARKS
1	82.7 cm	15	8.54×10^{-3}	
2	82.7 cm	15	8.49×10^{-3}	
3	82.7 cm	15	8.47×10^{-3}	
4	82.7 cm	15	7.95×10^{-3}	
5	82.7 cm	15	7.88×10^{-3}	

Average of Tests = 8.27×10^{-3}

Foth & Van Dyke

Engineers/Architects

2737 S. Ridge Road P. O. Box 19012 Green Bay, Wisconsin 54307-9012 414/497-2500

COMPACTION CONTROL REPORT

DATE: 9-11-86 JOB NAME: Adams County SCOPE I.D. #: 86A22FR

1. LABORATORY COMPACTION TEST DATA

A. DESCRIPTION OF SOIL: SAND, fine grained, brown (SP)

MATERIAL MARK Boring MW-9 CLASSIFICATION AASHO BPR

SOURCE OF MATERIAL

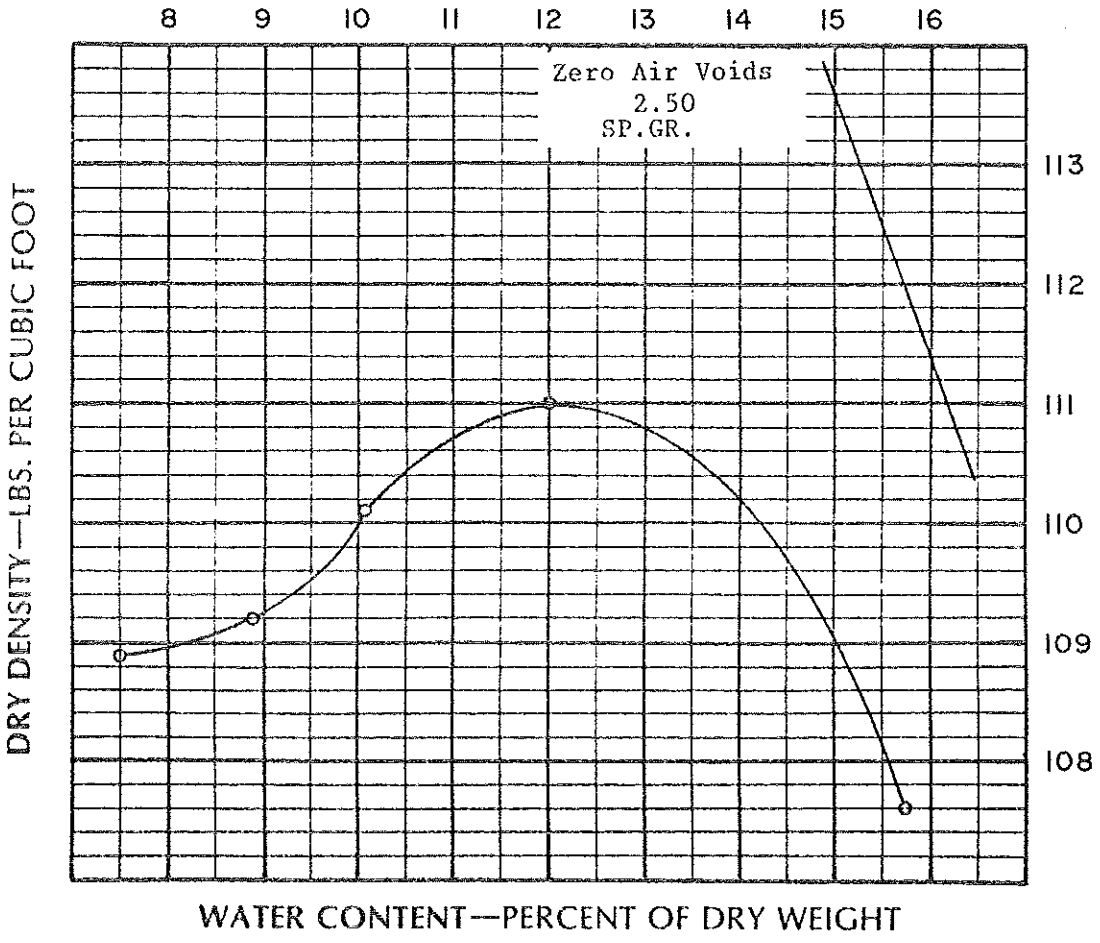
NATURAL WATER CONTENT % NATURAL DRY DENSITY PCF SPECIFIC GRAVITY

LIQUID LIMIT % PLASTIC LIMIT % PLASTICITY INDEX

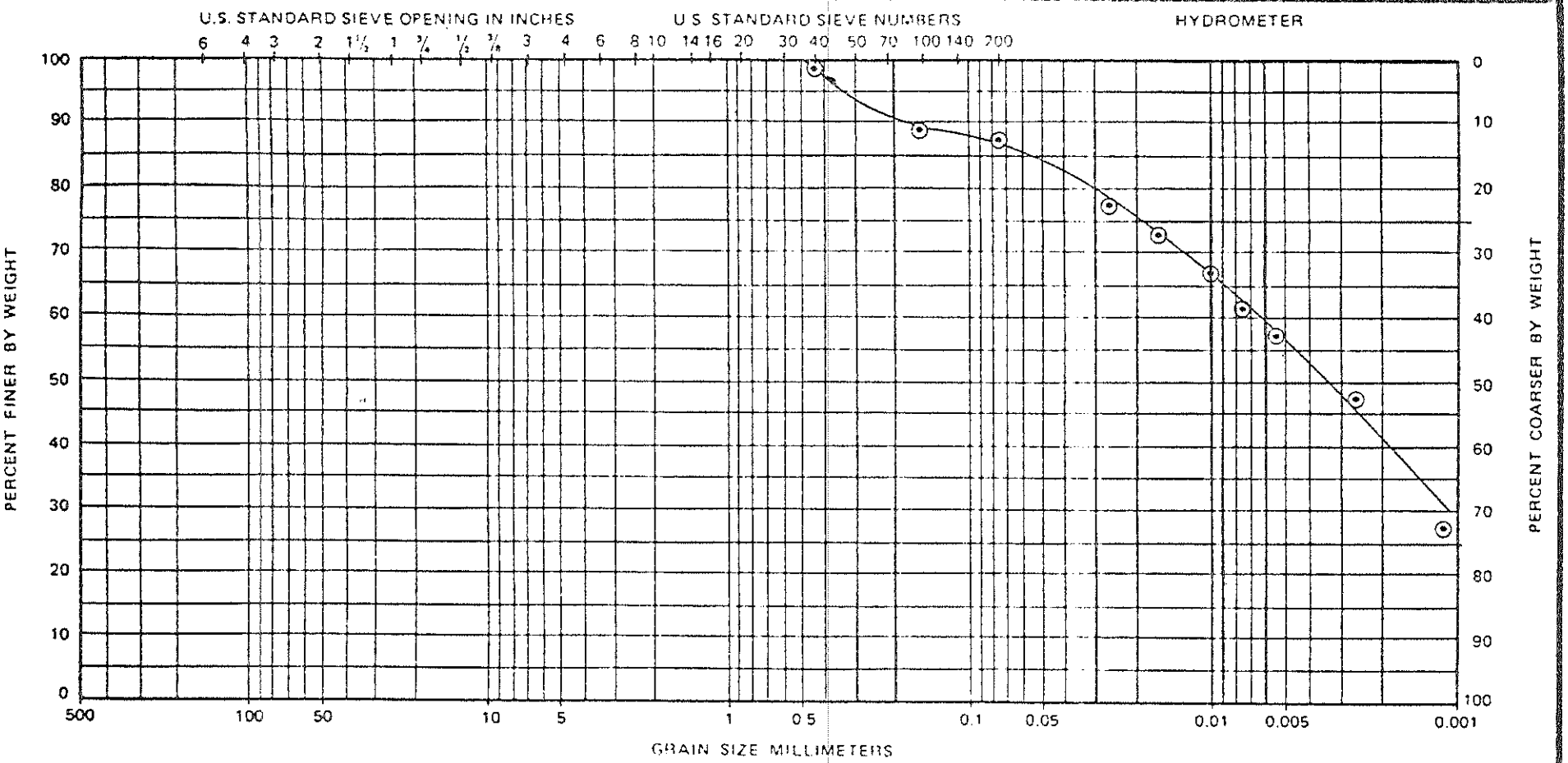
B. TEST PROCEDURE USED: ASTM D 1557-78 Method "A"

C. TEST RESULTS: OPTIMUM WATER CONTENT 13.0 %

MAXIMUM DRY DENSITY 111.0 PCF (AT A WET DENSITY OF 125.4 PCF)



GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
B-MW9		LEAN CLAY, reddish	31.4			
S-7	35'	brown				
		(CL)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT: Adams County Feasibility Study

DATE: 8/25/86

PROJECT NO: 86A22

Toth & Van Dyke

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.: _____
JOB NO.: 86A22
DATE: August 1986
REPORT NO.: FR15

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR: _____
PROJECT: Adams County Feasibility Study SOURCE: _____
REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4				
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	.7	1.2	98.8	
No. 50				
No. 80				
No. 100	5.4	9.6	89.2	
No. 200	1.0	1.8	87.4	
Pan	49.2	87.4		
Fineness Modulus				

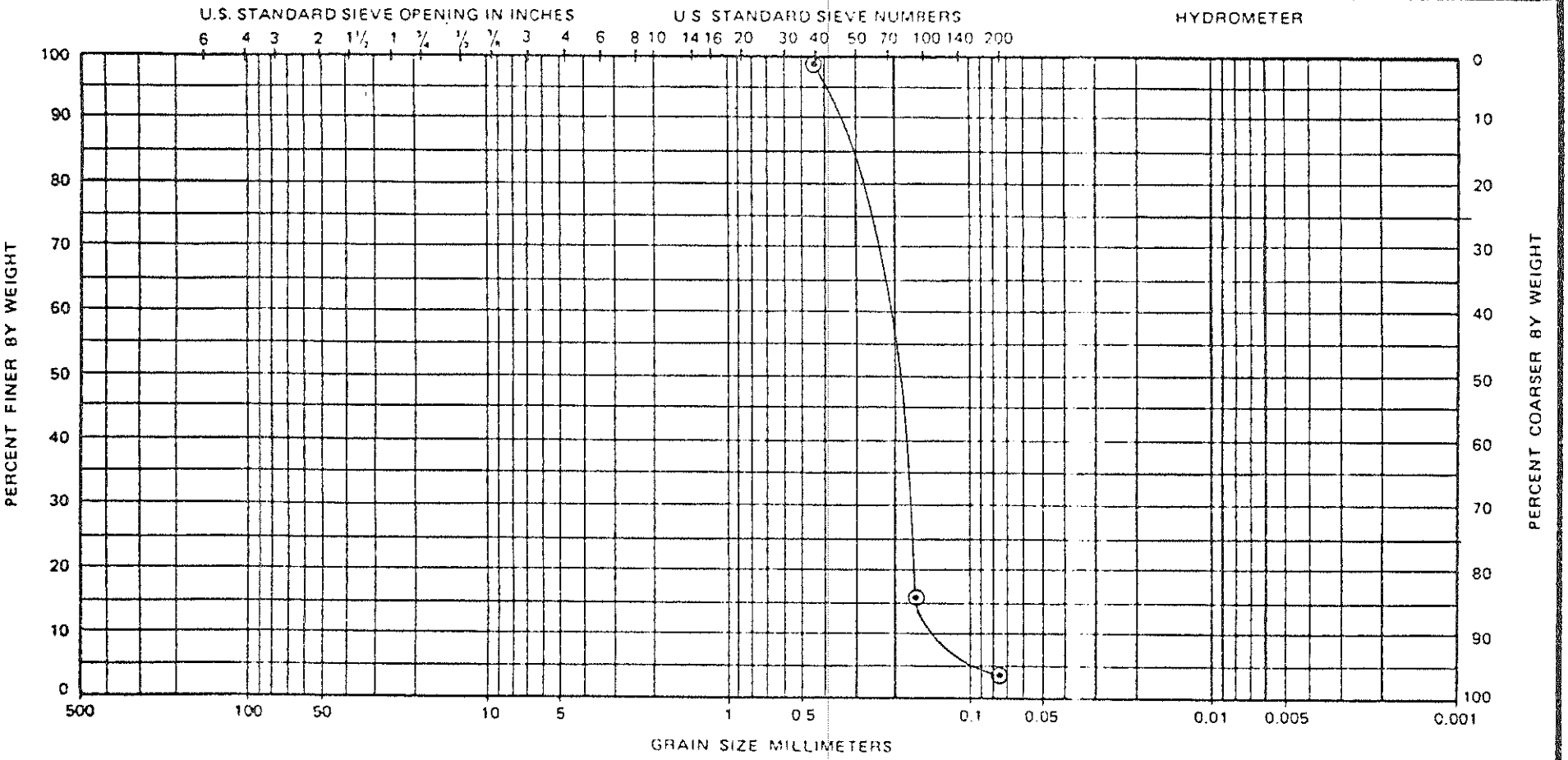
RECEIVED AT LABORATORY: June 23, 1986
QUANTITY REPRESENTED: 56.3 grams
SUBMITTED BY: Janis Schallhorn of F&VD
SAMPLED FROM: Boring MW 9
IDENTIFICATION: Sample #7 (upper) @ 35'
DATE SAMPLED: June 1986
INTENDED USE: _____

REMARKS:

ORGANIC MATTER, COLORIMETRIC: _____
COAL AND LIGNITE: _____
CLAY LUMPS: _____
CHERT: _____
SOFT PARTICLES: _____
PERCENT ABSORPTION: _____
SPECIFIC GRAVITY: _____
DRY RODDED WGT: _____
WASHED GRADATION: Yes
PERCENT PASSING NO. 200 SIEVE 87.4%

CHECKED BY: _____

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring MW-9		SAND, fine grained	3.3			
7-A	35'	light brown				
		(SP)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 8/25/86 PROJECT NO: 86A22

Foth & Van Dyke

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.: _____
JOB NO.: 86A22
DATE: August 19 to 22, 1986
REPORT NO.: FR15-A

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR: _____
PROJECT: Adams County Feasibility Study SOURCE: _____
REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifications
3-inch				
2-inch				
1 1/2-inch				
1-inch				
3/4-inch				
1/2-inch				
3/8-inch				
No. 4				
No. 8				
No. 10				
No. 16				
No. 20				
No. 30				
No. 40	.7	.9	99.1	
No. 50				
No. 80				
No. 100	62.8	82.8	16.3	
No. 200	9.5	12.5	3.8	
Pan	2.8	3.7		
Fineness Modulus				

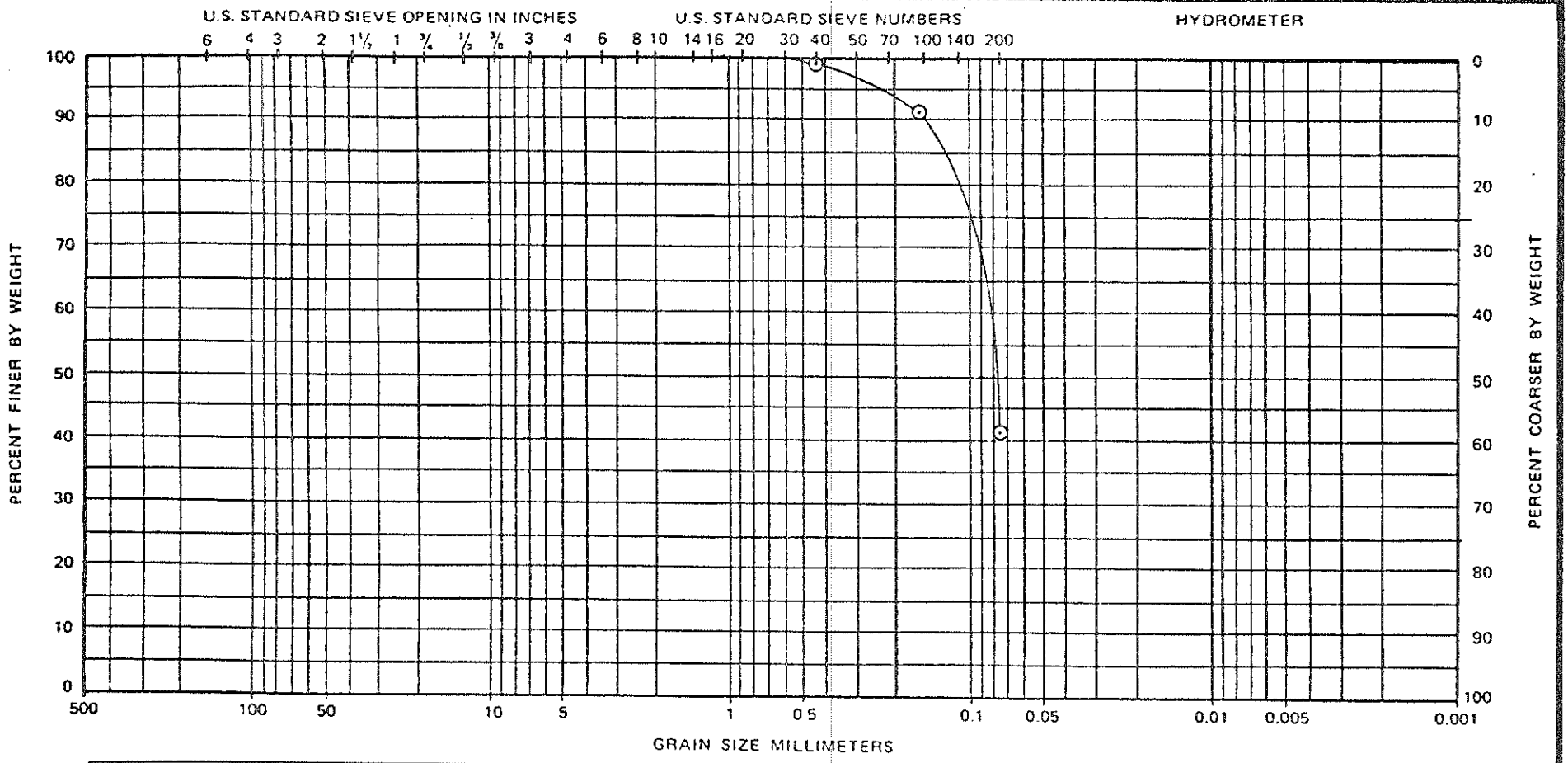
RECEIVED AT LABORATORY: _____
QUANTITY REPRESENTED: 75.8 grams
SUBMITTED BY: Janis Schallhorn of F&VD
SAMPLED FROM: Boring MW-9
IDENTIFICATION: Sample 7A (lower) @ 35'
DATE SAMPLED: June 1986
INTENDED USE: _____

REMARKS:

ORGANIC MATTER, COLORIMETRIC: _____
COAL AND LIGNITE: _____
CLAY LUMPS: _____
CHERT: _____
SOFT PARTICLES: _____
PERCENT ABSORPTION: _____
SPECIFIC GRAVITY: _____
DRY RODDED WGT: _____
WASHED GRADATION: Yes
PERCENT PASSING NO. 200 SIEVE 3.7 %

CHECKED BY: _____

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring 10		SILTY SAND, fine grained	18.5			
S-4	15'	light brown				
		(SM)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 8/15/86 PROJECT NO: 86A22

Foth & Van Dyke Industrial Inc.

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: July 11 to 15, 1986

REPORT NO.: FR-6

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Study SOURCE:

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1 1/2-Inch				
1-Inch				
3/4-Inch				
1/2-Inch				
3/8-Inch				
No. 4				
No. 8				
No. 10				
No. 16				
No. 20				
No. 30				
No. 40	.1	.1	99.9	
No. 50				
No. 80				
No. 100	12.1	8.4	91.5	
No. 200	72.2	50.3	41.2	
Pan	11.2 47.8	59.1	41.2	
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 143.6 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED ~~XXXX~~: from Boring #10

IDENTIFICATION: Sample #4 @ 15'

DATE SAMPLED: June 1986

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

DRY RODDED WGT:

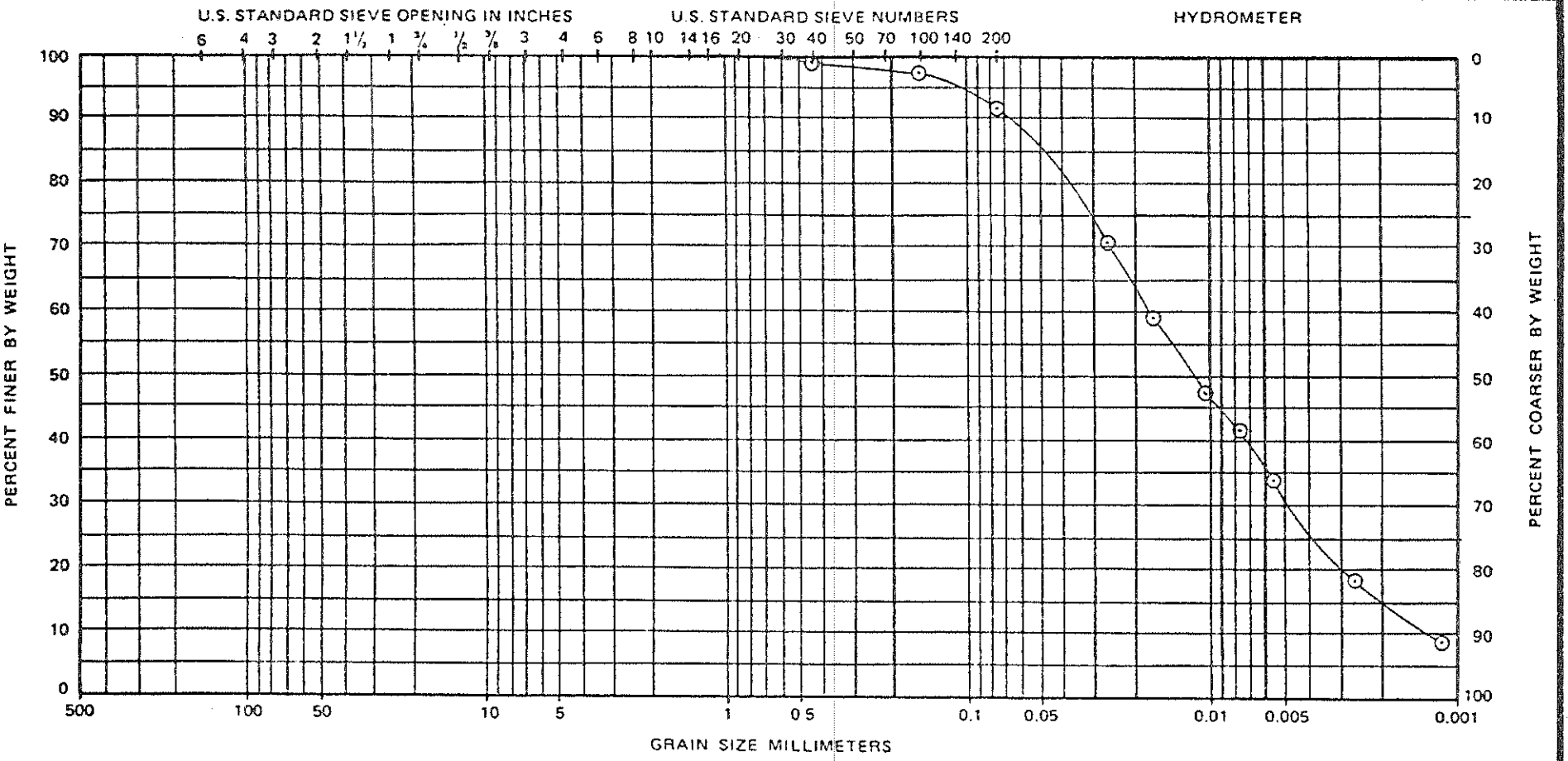
WASHED GRADATION: yes

PERCENT PASSING NO. 200 SIEVE 41.2 %

Moisture content on sample: 18.5%

CHECKED BY:

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring 10		Clayey SILT, pale brown	24.9			
S-5	20'	(CL-ML)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 8/15/86 PROJECT NO: 86A22

Foth & Van Dyke Industrial Inc.

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: July 17 to 21, 1986

REPORT NO.: FR-10

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Study SOURCE:

REPORT OF TESTS OF: Proposed Material for Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-inch				
2-inch				
1 1/2-inch				
1-inch				
3/4-inch				
1/2-inch				
3/8-inch				
No. 4				
No. 8				
No. 10	---	---	100	
No. 16				
No. 20				
No. 30				
No. 40	.4	.4	99.6	
No. 50				
No. 80				
No. 100	2.7	2.6	97.0	
No. 200	6.2	6.0	91.0	
Pan	94.4	91.0		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 103.7

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED ~~FROM~~: from Boring #10

IDENTIFICATION: Sample #5 @ 20.0'

DATE SAMPLED:

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

DRY RODDED WGT:

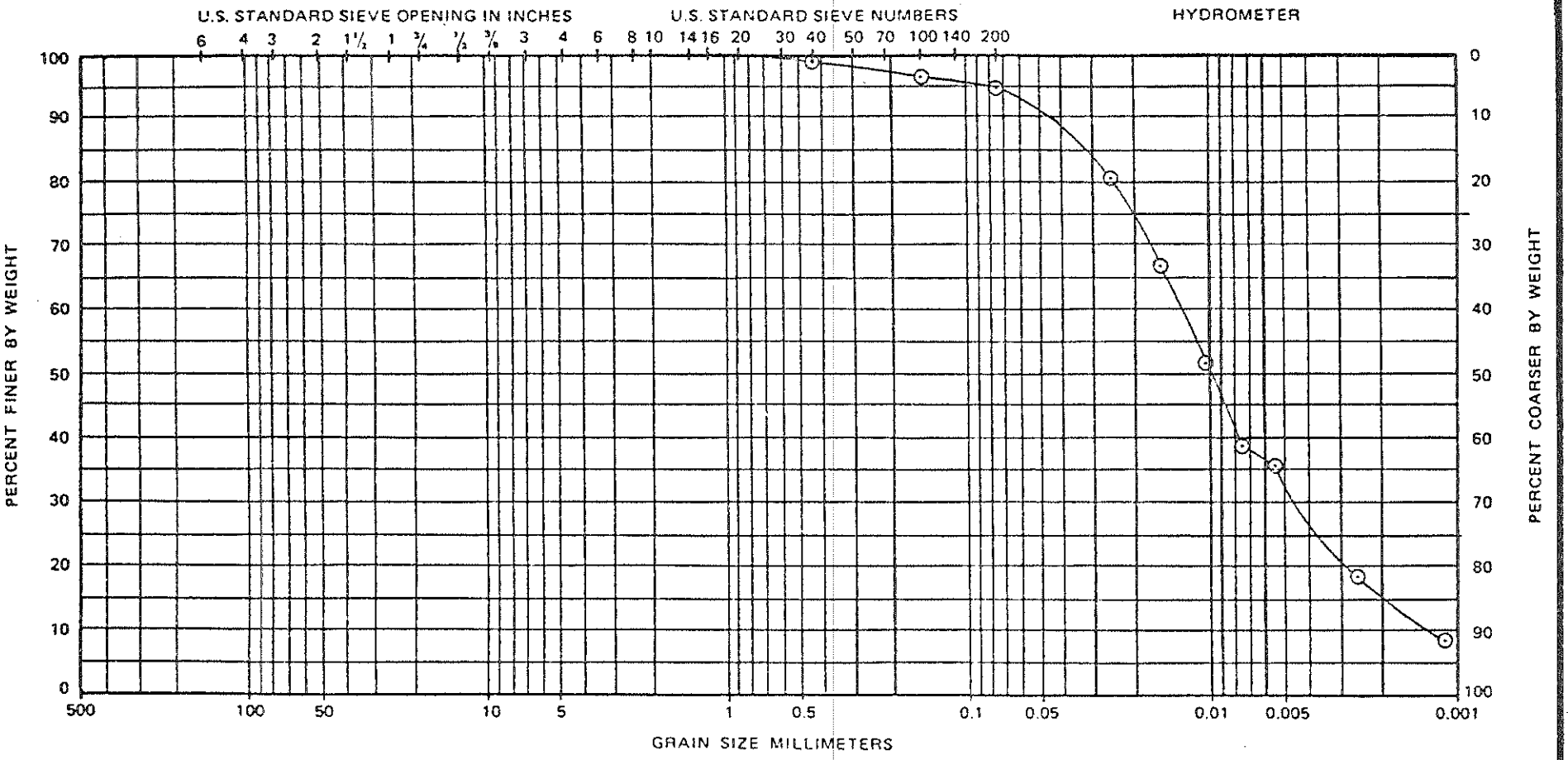
WASHED GRADATION: yes

PERCENT PASSING NO. 200 SIEVE 91.0 %

CHECKED BY:

FORM #329A SL (5/'85)

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring 10		Clayey SILT; gray brown,	28.4			
S-6	25'	(CL-ML)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 8/15/86 PROJECT NO: 86A22

Foth & Van Dyke Industrial Inc.
Waste/Energy Division

FORM #317 W/L (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: July 23 to 25, 1986

REPORT NO.: FR-11

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams county Clay Investigation SOURCE:

REPORT OF TESTS OF: Proposed Materials for Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4				
No. 8				
No. 10	---	---	100	
No. 16				
No. 20				
No. 30				
No. 40	.7	.7	99.3	
No. 50				
No. 80				
No. 100	3.5	3.3	96.0	
No. 200	1.6	1.5	94.5	
Pan	100.2	94.5		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 106.0 grams

SUBMITTED BY: Janis Schallhorn or F&VD

SAMPLED ~~FORM~~: from Boring #10

IDENTIFICATION: Sample #6 @ 25'

DATE SAMPLED:

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

DRY RODDED WGT:

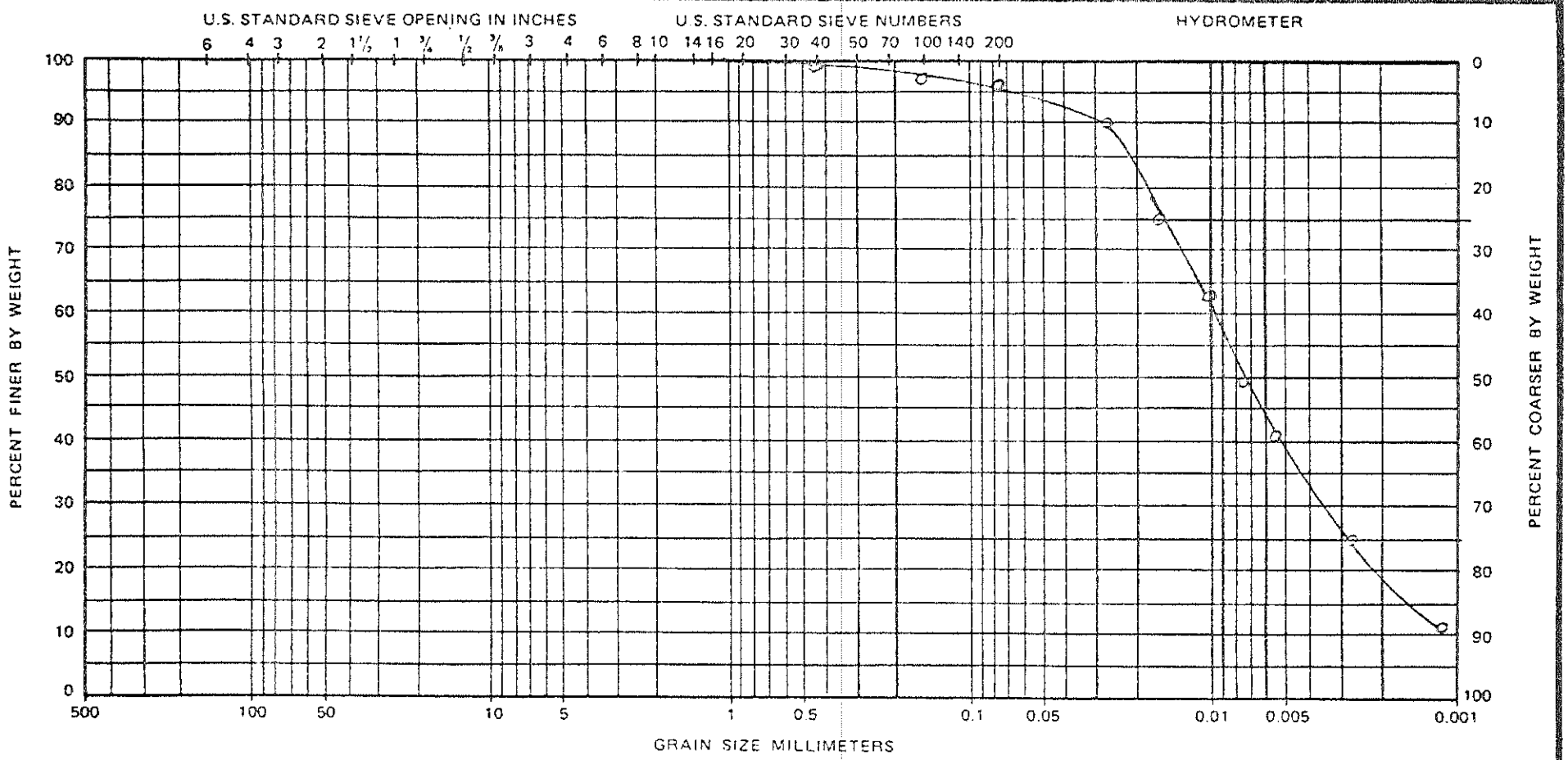
WASHED GRADATION: yes

PERCENT PASSING NO. 200 SIEVE 94.5 %

CHECKED BY:

FORM #329A SL (5/85)

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring 10		LEAN CLAY, brown to				
FR-17	30-33'	reddish brown				
		(CL)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 9/26/86 PROJECT NO: 86A22

Foth & Van Dyke
Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

FALLING/CONSTANT HEAD TEST

No. of Layers	
No. of Blows/Hammer Size	
Vol. of Water Added (c.c.)	
Wt. of Cyl. + Soil, Wm (lbs.)	
Wt. of Cyl., Wc (lbs.)	
Wt. of Soil, W (lbs.)	
Average Water Content, w(%)	
Moist Density, FM (lbs./ft.^{3})	
Dry Density, FM (dry) (lbs./ft.^{3})	
% Compaction	

JOB NO.:	86A22
BORING NO.:	10
SAMPLE NO.:	FR-17
DEPTH:	30-33'
TUBE DIAMETER	A = 2.80"
LENGTH OF SAMPLE	6.8125"
DIST. FROM TOP OF TUBE TO LOWER WATER LEVEL	26.3 cm
DATE:	July 18, 1986
TECH. NAME:	R. Rouse

	TIME AM/PM DATE	TIME INTERVAL (MIN.)	H @ START OF TEST	H @ FINISH	TARE	TOTAL WT. TARE + WATER, GR.	WEIGHT OF WATER, GR.	K CM/SEC.
	08:05 (AM) PM 7/18/86	(483)	SATURATION					
	16:08 AM (PM) 7/18/86	28,980	101.0	96.1	201.7	299.8	98.1	2.50×10^{-6}
2	16:08 AM (PM) 7/18/96	(3985)	--					
	10:37 (AM) PM 7/21/86	239,100	96.1	83.3	201.7	436.7+	235.0+	9.00×10^{-7}
3	10:37 (AM) PM 7/21/86	(1255)	@ 2 psi					
	07:32 (AM) PM 7/22/86	75,300	83.3	74.6	201.7	379.8	178.1	8.00×10^{-7}
4	07:32 (AM) PM 7/22/86	(1419)	--					
	07:11 (AM) PM 7/23/86	85,140	74.6	72.2	201.7	246.4	44.7	5.00×10^{-7}
5	07:11 (AM) PM 7/23/86	(5267)	--					
	22:58 AM (PM) 7/26/86	316,020	72.2	66.3	201.7	312.6	110.9	4.00×10^{-7}
6	22:58 AM (PM) 7/26/86	(3525)						
	09:43 (AM) PM 7/29/86	211,500	66.3	62.9	201.7	260.7	59.0	4.00×10^{-7}
7	09:43 (AM) PM 7/29/86	(8930)	@ 2 psi					
	14:33 AM (PM) 8/04/86	535,800	62.9	55.7	201.7	330.1	128.4	9.61×10^{-8}
8	14:33 AM (PM) 8/04/86	(8470)	@ 1 psi					
	11:43 (AM) PM 8/10/86	508,200	55.7	49.4	201.7	310.0	108.3	1.00×10^{-7}
9	11:43 (AM) PM 8/10/86	(2635)	@ 1 psi					
	07:38 (AM) PM 8/12/86	158,100	49.4	47.7	201.7	231.0	29.3	1.00×10^{-7}
10	07:38 (AM) PM 8/12/86	(8972)	@ 1 psi					
	13:10 AM (PM) 8/18/86	538,320	47.7	41.2	201.7	318.7	117.0	2.00×10^{-7}
11	13:10 AM (PM) 8/18/86	(4090)	@ 1 psi					
	09:20 (AM) PM 8/21/86	245,400	41.2	38.2	201.7	251.9	50.2	2.00×10^{-7}
12	09:20 (AM) PM 8/21/86	(5760)	@ 1 psi					
	09:20 (AM) PM 8/25/86	345,600	38.2	34.3	201.7	--	--	2.00×10^{-7}
	AM/PM							
	AM/PM							
	AM/PM							
	AM/PM					Perm Rate		2×10^{-7}

FORM #335 SL (7/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.: _____
JOB NO.: 86A22
DATE: September 26, 1986
REPORT NO.: FR-17

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR: _____

PROJECT: Adams County Feasibility Study SOURCE: _____

REPORT OF TESTS OF: Proposed Material for Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifications
3-Inch				
2-Inch				
1 1/2-Inch				
1-Inch				
3/4-Inch				
1/2-Inch				
3/8-Inch				
No. 4				
No. 8				
No. 10				
No. 16				
No. 20	0	0	100	
No. 30				
No. 40	.6	.4	99.6	
No. 50				
No. 80				
No. 100	3.0	2.0	97.6	
No. 200	1.3	.9	96.7	
Pan 143.4 .1	143.5	96.7		
Fineness Modulus				

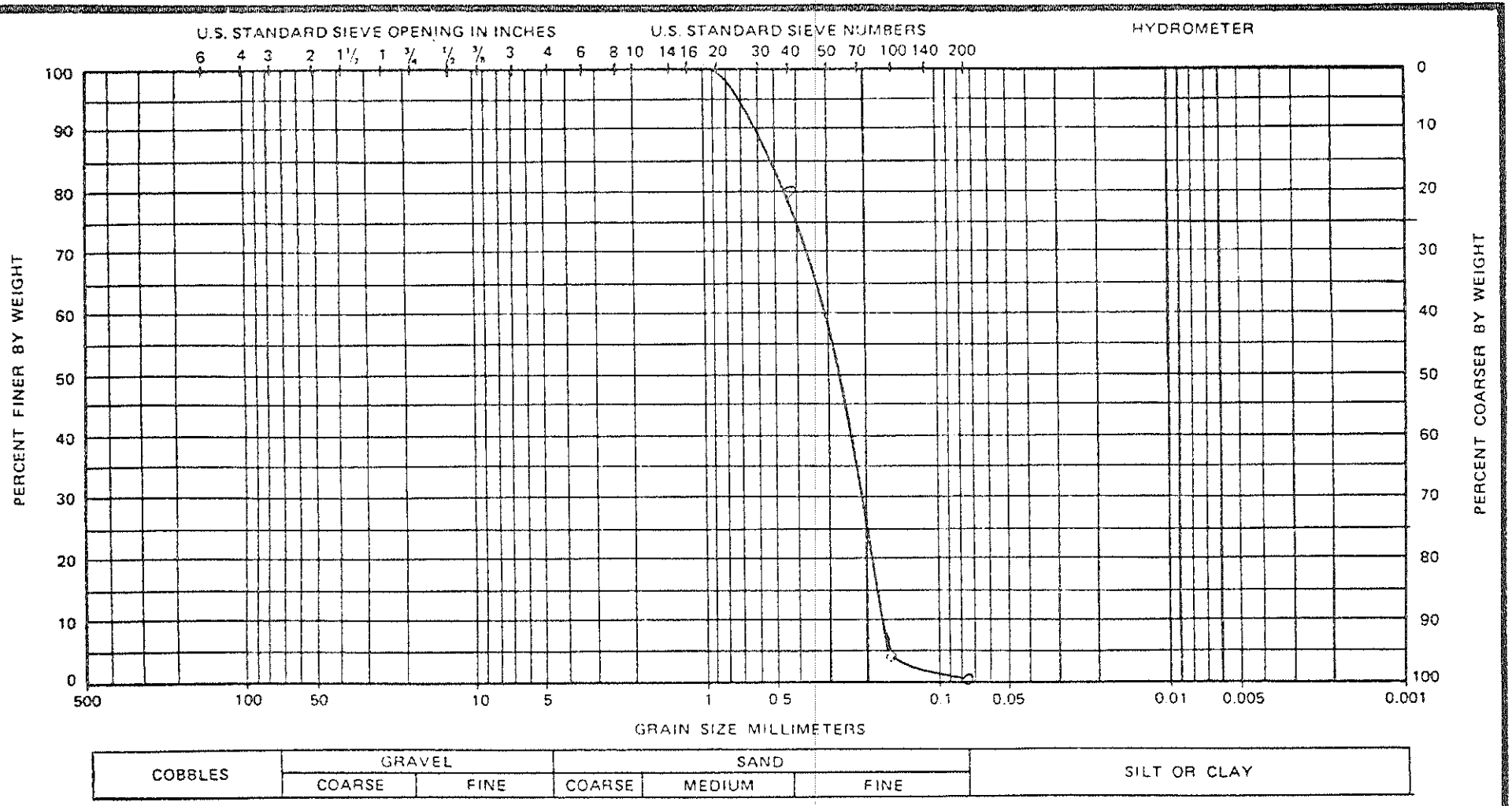
RECEIVED AT LABORATORY: June 23, 1986
QUANTITY REPRESENTED: 148.4 grams
SUBMITTED BY: Janis Schallhorn of F&VD
SAMPLED ~~FORM~~ From: Boring #10
IDENTIFICATION: Depth 32'
DATE SAMPLED: June 1986
INTENDED USE: _____

REMARKS:

ORGANIC MATTER, COLORIMETRIC: _____
COAL AND LIGNITE: _____
CLAY LUMPS: _____
CHERT: _____
SOFT PARTICLES: _____
PERCENT ABSORPTION: _____
SPECIFIC GRAVITY: _____
DRY RODDED WGT: _____
WASHED GRADATION: Yes
PERCENT PASSING NO. 200 SIEVE 96.7 %

CHECKED BY: _____

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring 11	10-15'	SAND, fine to medium				
		grained, light brown				
		(SP)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT: Adams County Feasibility Study

DATE: 9/19/86

PROJECT NO: 86A22

Foth & Van Dyke

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.: _____
JOB NO.: 86A22
DATE: September 11, 1986
REPORT NO.: FR-25

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR: _____
PROJECT: Adams County Feasibility Study SOURCE: _____
REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifications
3-Inch				
2-Inch				
1 1/2-Inch				
1-Inch				
3/4-Inch				
1/2-Inch				
3/8-Inch				
No. 4				
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	66.5	19.8	80.2	
No. 50				
No. 80				
No. 100	255.2	75.8	4.4	
No. 200	13.1	3.9	0.5	
Pan 1.6 0.3	1.9	0.6		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986
QUANTITY REPRESENTED: 336.7 grams
SUBMITTED BY: Janis Schallhorn of F&VD
SAMPLED ~~FROM~~ From: Boring #11
IDENTIFICATION: Depth 10-15'
DATE SAMPLED: June 1986
INTENDED USE: _____

REMARKS:

ORGANIC MATTER, COLORIMETRIC: _____
COAL AND LIGNITE: _____
CLAY LUMPS: _____
CHERT: _____
SOFT PARTICLES: _____
PERCENT ABSORPTION: _____
SPECIFIC GRAVITY: _____
DRY RODDED WGT: _____
WASHED GRADATION: Yes
PERCENT PASSING NO. 200 SIEVE 0.5 %

CHECKED BY: _____

Foth & Van Dyke
Engineers/Architects

2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT: Adams County Feasibility

JOB NO.: 86A22

DATE: September 11, 1986

PERMEABILITY TEST
CONSTANT HEAD

SAMPLE NO.: FR-25 - Boring #11 at 10' to 15' depth

SOIL DESCRIPTION: SAND, fine to medium grained, light brown (SP)

% COMPACTION --

COMPACTED DRY DENSITY = 103.3 pcf

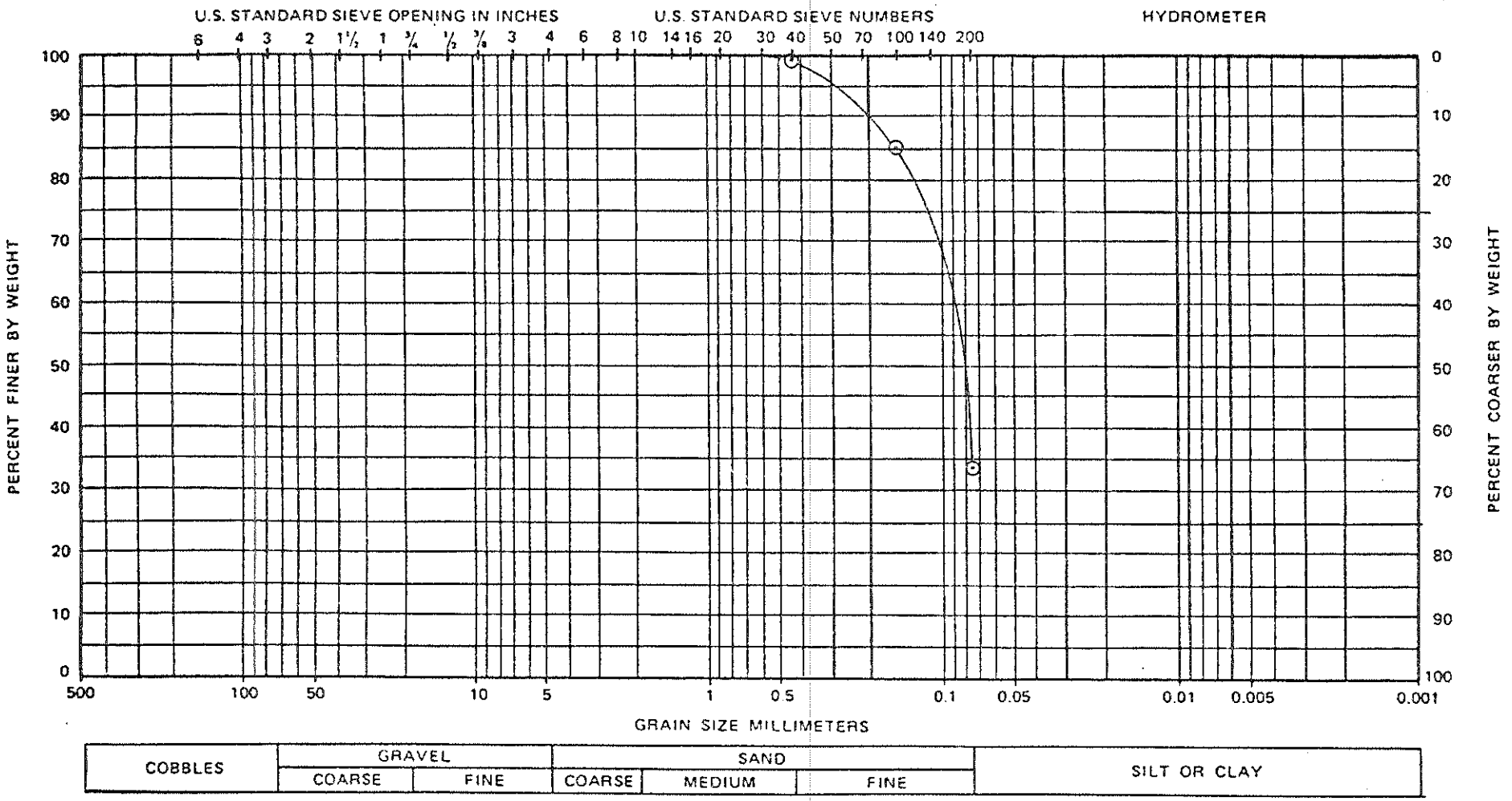
MOISTURE = 7.4%

SAMPLE DIAMETER = 4.00"

SAMPLE HEIGHT = 4.5625" (4-9/16")

RUN NO.	HEAD, ~~INCHES~~ (CM)	DURATION, ~~XXXXXXS~~ (Seconds)	PERMEABILITY, CM/SEC.	REMARKS
1	83.0	15	1.06×10^{-2}	
2	83.0	15	1.03×10^{-2}	
3	83.0	15	1.03×10^{-2}	
4	83.0	15	1.05×10^{-2}	
5	83.0	15	1.04×10^{-2}	
		Average for Test	1.04×10^{-2}	
		Perm Rate	1×10^{-2}	

GRAIN SIZE ANALYSIS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring 11		SILTY SAND, fine	21.7			
S-8	35'	grained, light brown				
		(SM)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 8/15/86 PROJECT NO: 86A22

Foth & Van Dyke Industrial Inc.

Waste/Energy Division

FORM 8317 W/E (4-85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.: _____

JOB NO.: 86A22

DATE: July 11 to 15, 1986

REPORT NO.: FR-7

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR: _____

PROJECT: Adams County Feasibility Study SOURCE: _____

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifications
3-Inch				
2-Inch				
1 1/2-Inch				
1-Inch				
3/4-Inch				
1/2-Inch				
3/8-Inch				
No. 4				
No. 8				
No. 10				
No. 16				
No. 20				
No. 30				
No. 40	.1	.1	99.9	
No. 50				
No. 80				
No. 100	18.5	14.8	85.1	
No. 200	63.7	51.1	34.0	
Pan 11.1 / 31.2	42.3	33.9		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 124.7 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED ~~FORM~~: from Boring #11

IDENTIFICATION: Sample #8 @ 35.0'

DATE SAMPLED: June 1986

INTENDED USE: _____

REMARKS:

ORGANIC MATTER, COLORIMETRIC: _____

COAL AND LIGNITE: _____

CLAY LUMPS: _____

CHERT: _____

SOFT PARTICLES: _____

PERCENT ABSORPTION: _____

SPECIFIC GRAVITY: _____

DRY RODDED WGT: _____

WASHED GRADATION: yes

PERCENT PASSING NO. 200 SIEVE 33.9 %

CHECKED BY: _____

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: August 19 to 22

REPORT NO.: FR12

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Study SOURCE:

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4				
No. 8				
No. 10				
No. 16				
No. 20				
No. 30				
No. 40	0	0	100	
No. 50				
No. 80				
No. 100	.8	.7	99.3	
No. 200	.4	.4	98.9	
Pan	112.1	98.9		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 113.3 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED FROM: Boring #11

IDENTIFICATION: Sample #9 @ 40'

DATE SAMPLED: June 1986

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

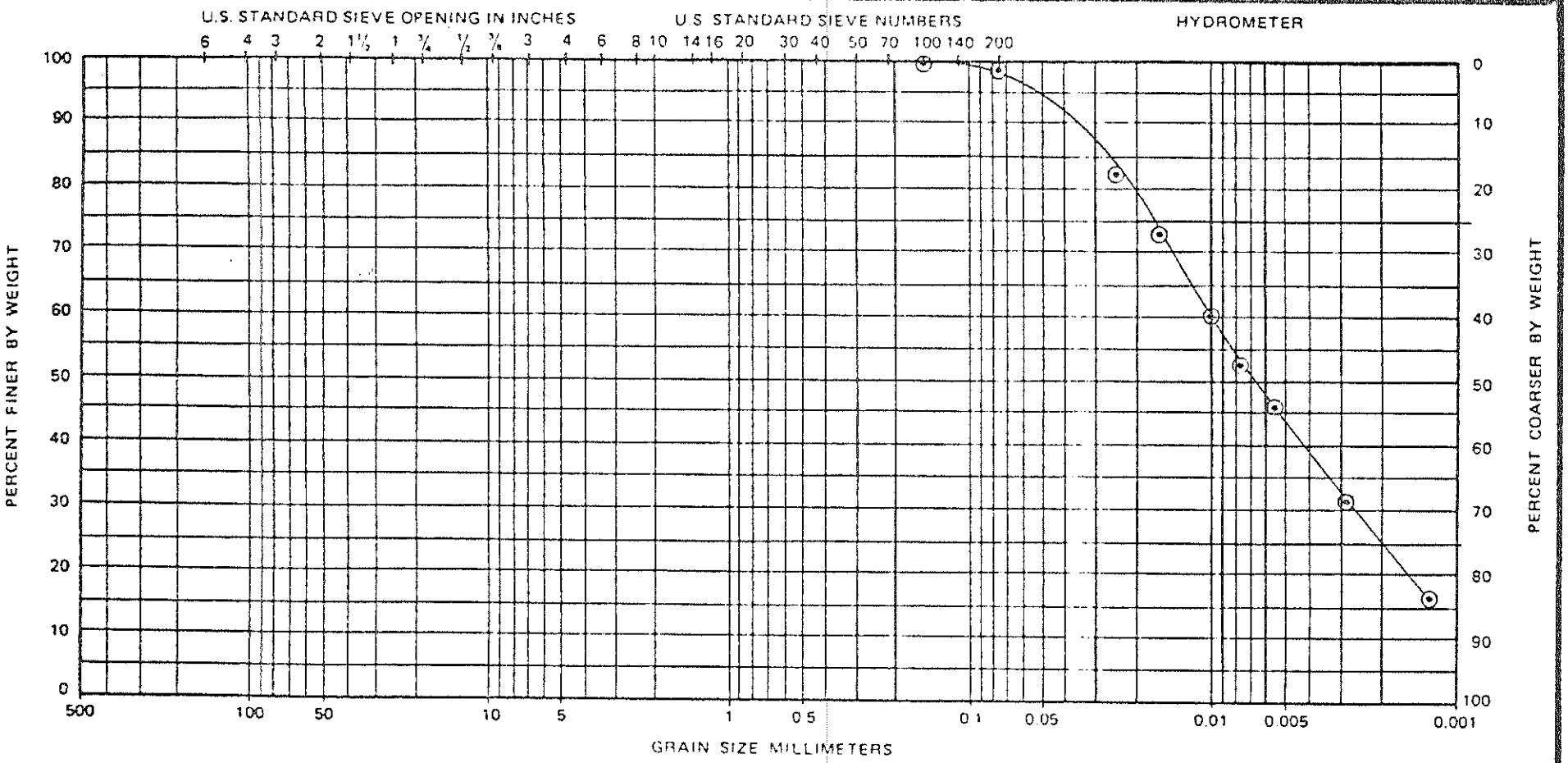
DRY RODDED WGT:

WASHED GRADATION: Yes

PERCENT PASSING NO. 200 SIEVE 98.9 %

CHECKED BY:

GRAIN SIZE ANALYSIS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
B-11		LEAN CLAY, grayish	29.3			
S-9	40'	brown				
		(CL)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

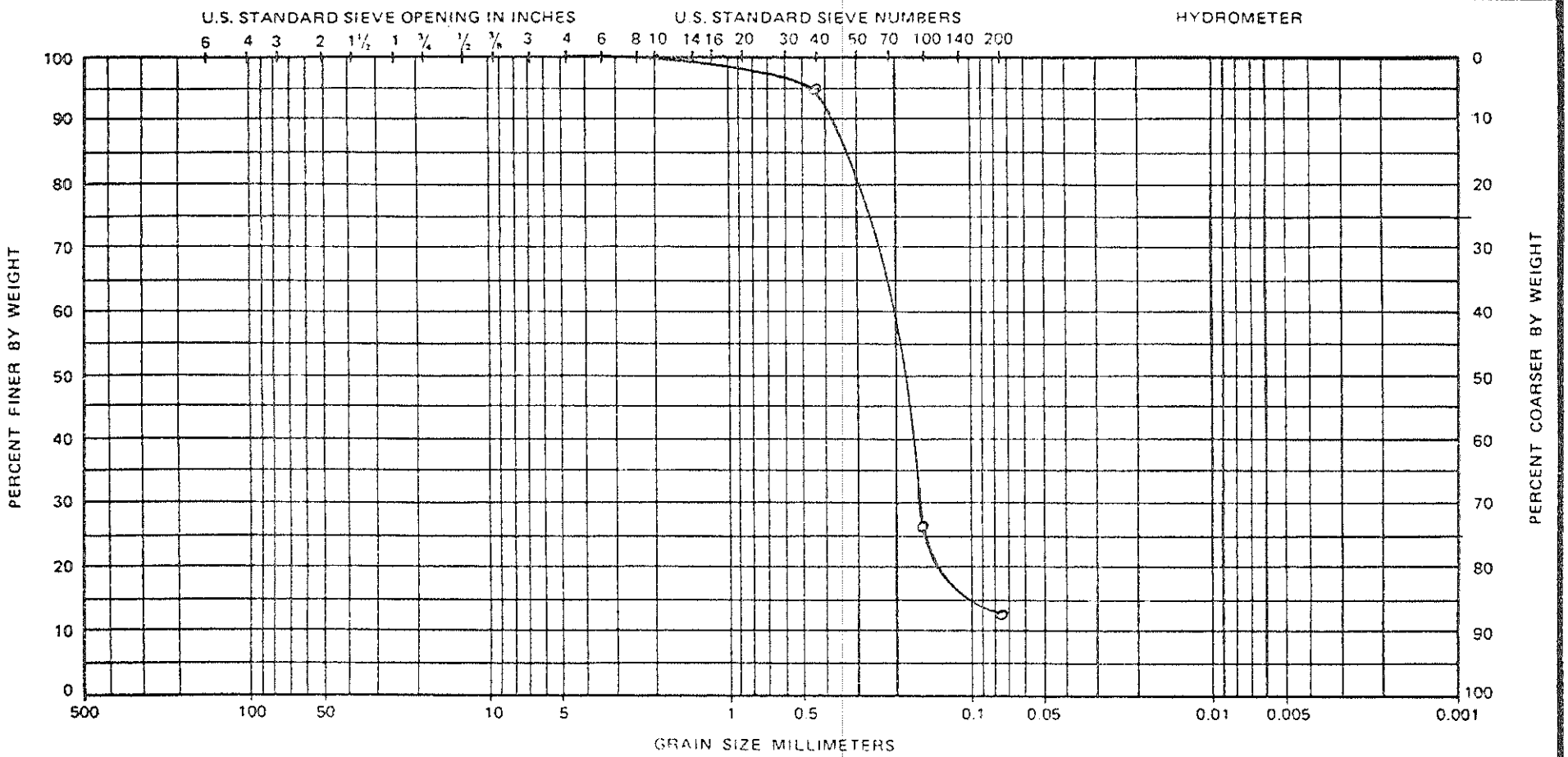
DATE: 8/25/86 PROJECT NO: 86A22

Foth & Van Dyke

Waste/Energy Division

FORM #317 W/E (4/85)

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring 12	5-10'	SILTY SAND, fine grained,				
		light brown				
		(SM)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 9/19/86

PROJECT NO: 86A22

Foth & Van Dyke

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects

2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT: Adams County Feasibility

JOB NO.: 86A22

DATE: September 11, 1986

PERMEABILITY TEST
CONSTANT HEAD

SAMPLE NO.: FR-21 - Boring #12 at 5' to 10' depth

SOIL DESCRIPTION: SILTY SAND, fine grained, light brown (SM)

% COMPACTION 92

COMPACTED DRY DENSITY = 106.7 pcf

MOISTURE = 10.4%

SAMPLE DIAMETER = 4.0"

SAMPLE HEIGHT = 4.5625"

RUN NO.	HEAD, ~~XXXXXX~~ (CM)	DURATION, ~~XXXXXX~~ (Seconds)	PERMEABILITY, *CM/SEC.*	REMARKS
1	84.5	30	6.60×10^{-4}	
2	84.5	30	6.43×10^{-4}	
3	84.5	30	6.77×10^{-4}	
4	84.5	30	6.77×10^{-4}	
5	84.5	30	6.43×10^{-4}	
		Average of Tests	6.60×10^{-4}	
		Perm Rate	7×10^{-4}	

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.: _____
JOB NO.: 86A22
DATE: September 11-12, 1986
REPORT NO.: FR-21

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR: _____
PROJECT: Adams County Feasibility Study SOURCE: _____
REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifications
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4	0	0	100	
No. 8				
No. 10	0.5	0.1	99.9	
No. 16				
No. 20				
No. 30				
No. 40	25.0	5.1	94.8	
No. 50				
No. 80				
No. 100	334.6	68.1	26.7	
No. 200	68.1	13.9	12.8	
Pan 56.3 6.8	63.1	12.8		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986
QUANTITY REPRESENTED: 491.3 grams
SUBMITTED BY: Janis Schallhorn of F&VD
SAMPLED ~~FOR~~ From: Boring #12
IDENTIFICATION: Depth 5-10'
DATE SAMPLED: June 1986
INTENDED USE: _____

REMARKS:

ORGANIC MATTER, COLORIMETRIC: _____
COAL AND LIGNITE: _____
CLAY LUMPS: _____
CHERT: _____
SOFT PARTICLES: _____
PERCENT ABSORPTION: _____
SPECIFIC GRAVITY: _____
DRY RODDED WGT: _____
WASHED GRADATION: Yes
PERCENT PASSING NO. 200 SIEVE 12.8 %

CHECKED BY: _____

Foth & Van Dyke

Engineers/Architects

2737 S. Ridge Road P. O. Box 19012 Green Bay, Wisconsin 54307-9012 414/497-2500

COMPACTION CONTROL REPORT

DATE: 9/18/86 JOB NAME: Adams County Feasibility Study SCOPE I.D. #: 86A22

1. LABORATORY COMPACTION TEST DATA

A. DESCRIPTION OF SOIL: SILTY SAND, fine grained, light brown (SM)

MATERIAL MARK FR-21 CLASSIFICATION AASHO

SOURCE OF MATERIAL Boring 12 Depth 5-10' BPR

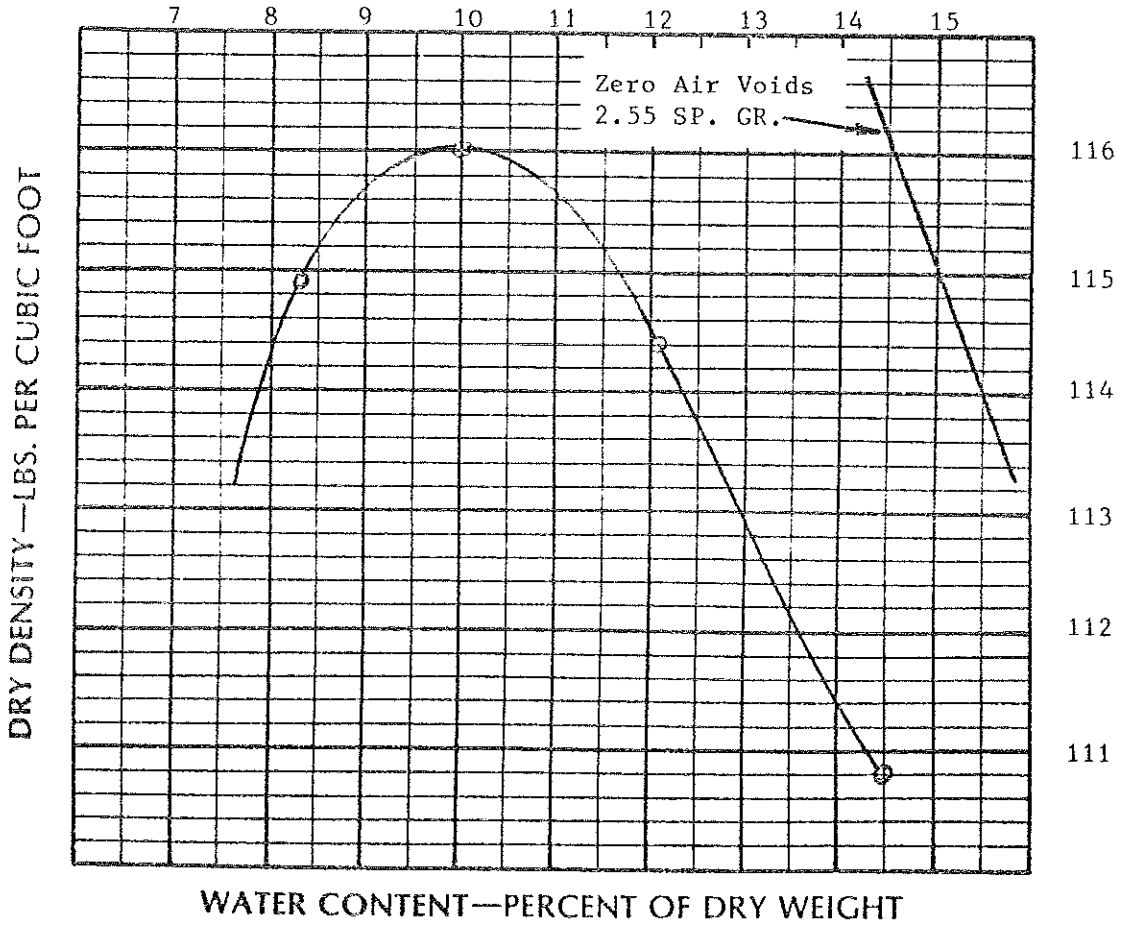
NATURAL WATER CONTENT % NATURAL DRY DENSITY PCF SPECIFIC GRAVITY

LIQUID LIMIT % PLASTIC LIMIT % PLASTICITY INDEX

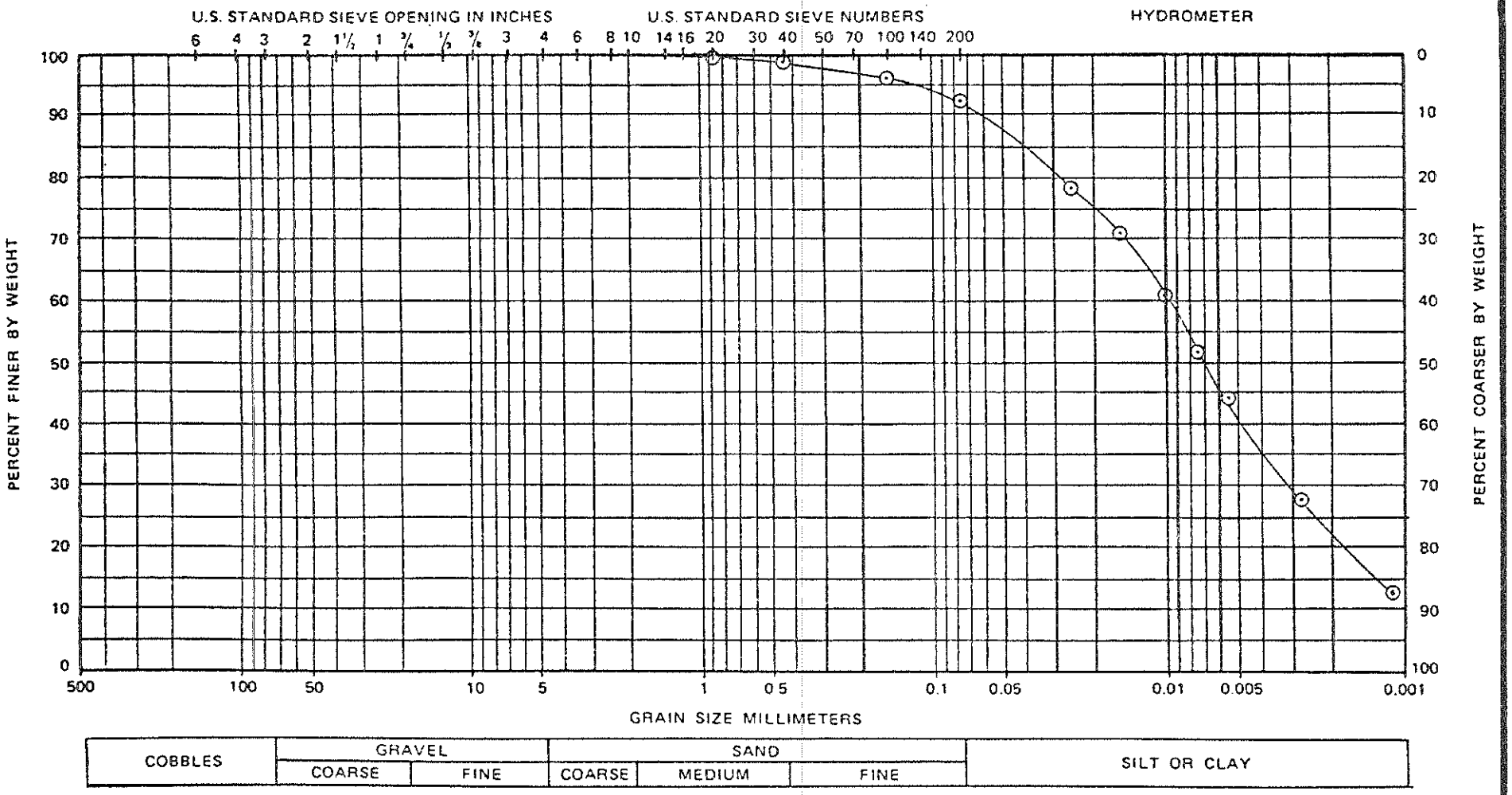
B. TEST PROCEDURE USED: ASTM D1557 Method "A"

C. TEST RESULTS: OPTIMUM WATER CONTENT 10.0 %

MAXIMUM DRY DENSITY 116.0 PCF (AT A WET DENSITY OF 127.6 PCF)



GRAIN SIZE ANALYSIS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring 12		LEAN CLAY, reddish	27.7	31	18	13
S-Tube	32'	brown				
		(CL)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Fesibility Study

DATE: 8/15/86 PROJECT NO: 86A22

Foth & Van Dyke Industrial Inc.

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

FALLING/CONSTANT HEAD TEST

No. of Layers	
No. of Blows/Hammer Size	
Vol. of Water Added (c.c.)	
Wt. of Cyl. + Soil, Wm (lbs.)	
Wt. of Cyl., Wc (lbs.)	
Wt. of Soil, W (lbs.)	
Average Water Content, w(%)	
Moist Density, FM (lbs./ft.^{3})	
Dry Density, FM (dry) (lbs./ft.^{3})	
% Compaction	

JOB NO.:	86A22
BORING NO.:	12
SAMPLE NO.:	FR-16
DEPTH:	32'
TUBE DIAMETER	A = 2.80"
LENGTH OF SAMPLE	7.0"
DIST. FROM TOP OF TUBE TO LOWER WATER LEVEL	26.0 cm
DATE:	July 16, 1986
TECH. NAME:	R. Rouse

	TIME AM/PM DATE	TIME INTERVAL (MIN.)	H @ START OF TEST	H @ FINISH	TARE	TOTAL WT. TARE + WATER, GR.	WEIGHT OF WATER, GR.	K CM/SEC.
	16:25 AM (PM) 7/16/86		SATURATION					
	AM/PM	--	102.8	--	207.3	--	--	
)	12:35 AM (PM) 7/17/86	(1657)						
	16:12 AM (PM) 7/18/86	99,420	102.4	102.0	207.3	220.4	13.1	5.79×10^{-8}
(2)	16:12 AM (PM) 7/18/86	(3986)						
	10:38 (AM) PM 7/21/86	239,160	102.0	101.2	207.3	217.1	9.8	4.84×10^{-8}
)	10:38 (AM) PM 7/21/86	(2675)						
	07:13 (AM) PM 7/23/86	160,500	101.2	99.0	207.3	242.9	35.6	2.00×10^{-7}
)	07:13 (AM) PM 7/23/86	(4546)						
	10:59 AM (PM) 7/26/86	272,760	99.0	94.4	207.3	288.9	81.6	3.00×10^{-7}
(5)	10:59 AM (PM) 7/26/86	(4245)						
	09:44 (AM) PM 7/29/86	254,700	94.4	91.6	207.3	260.6	53.3	2.00×10^{-7}
( )	09:44 (AM) PM 7/29/86	(8931)						
	14:35 AM (PM) 8/04/86	535,860	91.6	84.6	207.3	329.6	122.3	2.00×10^{-7}
)	14:35 AM (PM) 8/04/86	(8470)						
	11:45 (AM) PM 8/10/86	508,200	84.6	78.4	207.3	317.4	110.1	2.00×10^{-7}
(8)	11:45 (AM) PM 8/10/86	(2635)						
	07:40 (AM) PM 8/12/86	158,100	78.4	76.5	207.3	239.3	32.0	2.00×10^{-7}
)	07:40 (AM) PM 8/12/86	(8956)						
	12:56 AM (PM) 8/18/86	537,370	76.5	70.3	207.3	317.2	109.9	2.00×10^{-7}
)	12:56 AM (PM) 8/18/86	(4120)						
	09:36 (AM) PM 8/21/86	247,200	70.3	67.4	207.3	255.3	48.0	3.00×10^{-7}
11)	09:36 (AM) PM 8/21/86	(5794)						
	10:10 (AM) PM 8/25/86	347,640	67.4	63.7	207.3	--	--	2.00×10^{-7}
	AM/PM							
	AM/PM							
	AM/PM							
	AM/PM					Perm Rate		2×10^{-7}

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: July 22 to 25, 1986

REPORT NO.: ER-16

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Study SOURCE:

REPORT OF TESTS OF: Proposed Material for Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1 1/2-Inch				
1-Inch				
3/4-Inch				
1/2-Inch				
3/8-Inch				
No. 4				
No. 8				
No. 10	---	---	100	
No. 16				
No. 20	.4	.2	99.8	
No. 30				
No. 40	1.5	.8	99.0	
No. 50				
No. 80				
No. 100	5.5	3.0	96.0	
No. 200	6.2	3.4	92.6	
Pan	171.2	92.6		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 184.8 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED ~~FORM~~: from Boring #12

IDENTIFICATION: Sampled at 30-32'

DATE SAMPLED:

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

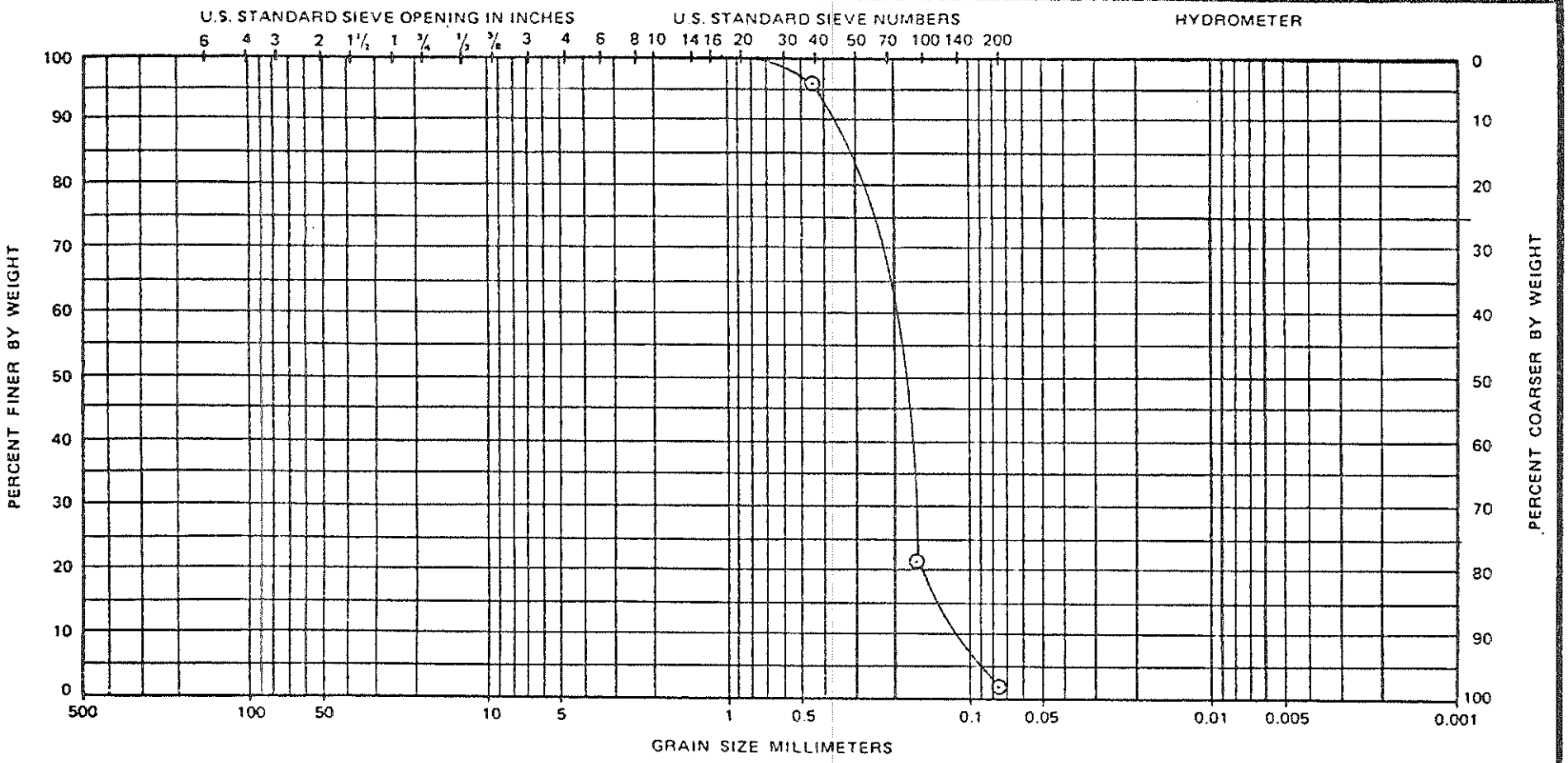
DRY RODDED WGT:

WASHED GRADATION: yes

PERCENT PASSING NO. 200 SIEVE 92.6 %

CHECKED BY:

GRAIN SIZE ANALYSIS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring 13		SAND, fine grained	3.9			
S-3	10.0'	brown				
		(SP)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 8/15/86 PROJECT NO: 86A22

Foth & Van Dyke Industrial Inc.

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: July 11 to 15, 1986

REPORT NO.: FR-8

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Study SOURCE:

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4				
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	6.2	4.6	95.4	
No. 50				
No. 80				
No. 100	100.0	74.3	21.2	
No. 200				
Pan .2 2.6	2.8	2.1		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 134.7 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED ~~FORM~~: from Boring #13

IDENTIFICATION: Sample #3 @ 10.0'

DATE SAMPLED: June 1986

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

DRY RODDED WGT:

WASHED GRADATION: yes

PERCENT PASSING NO. 200 SIEVE 2.1 %

CHECKED BY:

FORM #329A SL (5/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT: Adams County Study

JOB NO.: 86A22

DATE: September 10, 1986

PERMEABILITY TEST
CONSTANT HEAD

SAMPLE NO.: FR-20 Boring #13 at 10' - 13' depth

SOIL DESCRIPTION: Sand, fine grained, brown (SP)

% COMPACTION = 91 1/2

COMPACTED DRY DENSITY = 101.7 pct

MOISTURE = 5.6%

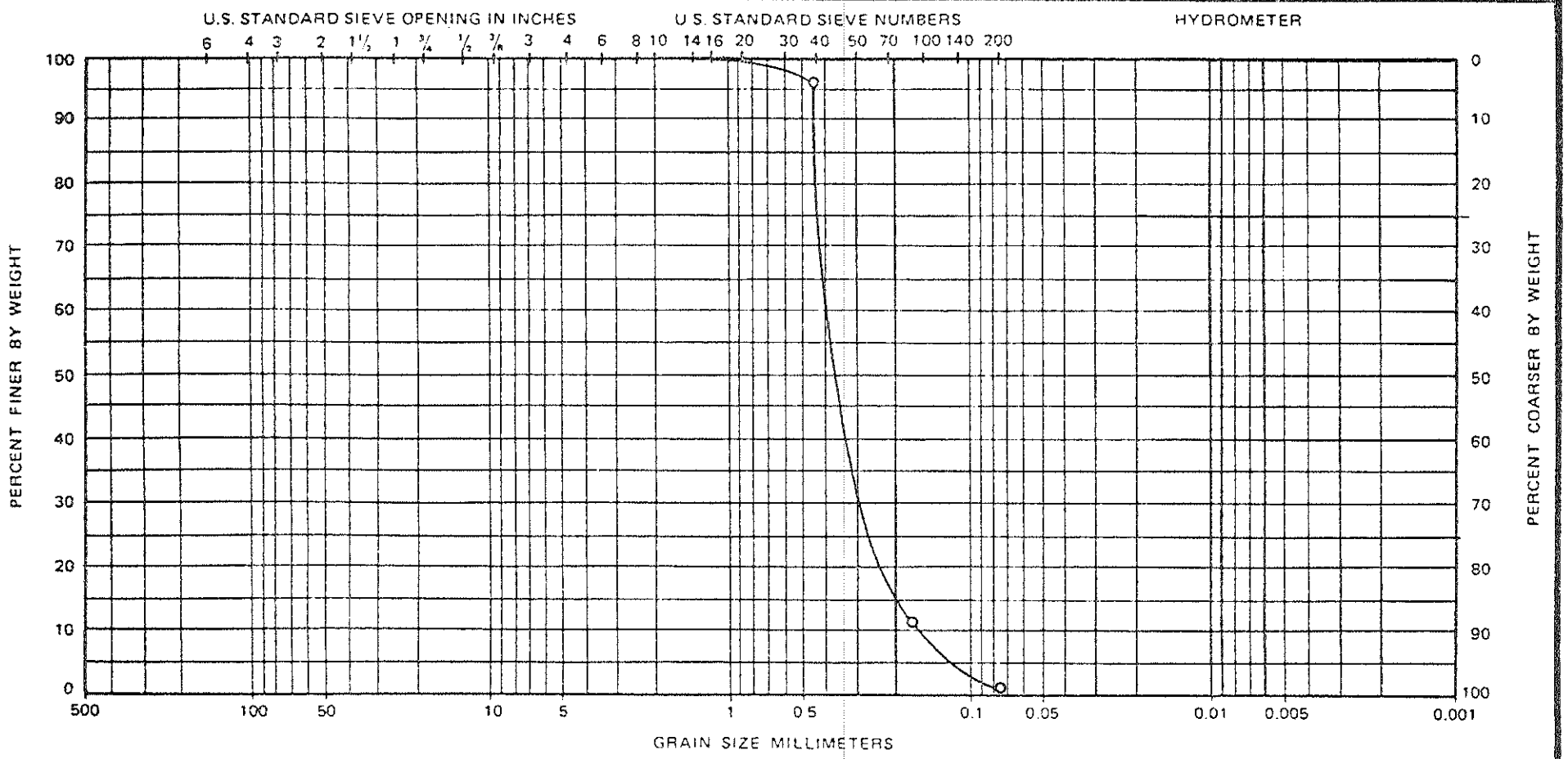
SAMPLE DIAMETER = 4.00"

SAMPLE HEIGHT = 4.5625" (4 9/16")

RUN NO.	HEAD, CM	DURATION, Seconds	PERMEABILITY, CM/SEC.	REMARKS
1	82.1	15	7.66×10^{-3}	
2	82.1	15	7.37×10^{-3}	
3	82.1	15	7.40×10^{-3}	
4	82.1	15	7.31×10^{-3}	
5	82.1	15	7.09×10^{-3}	

Average of Tests = 7.37×10^{-3}

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring 13	10-13'	SAND, fine grained, brown				
		(SP)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 9-12-86

PROJECT NO: 86A22

Foth & Van Dyke
Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22 FR

DATE: September 10 to 11, 1986

REPORT NO.: FR-20

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Study SOURCE:

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifications
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch	0	0	100	
No. 4	0	0	100	
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	17.4	4.3	95.7	
No. 50				
No. 80				
No. 100	346.1	84.7	11.0	
No. 200	41.7	10.2	0.8	
Pan	3.4	0.8		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 408.6 grams

SUBMITTED BY: Janis Schallhorn of Foth & Van Dyke

SAMPLED ~~XXXX~~ FROM: Boring 13

IDENTIFICATION: Depth 10' - 13'

DATE SAMPLED: June, 1986

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

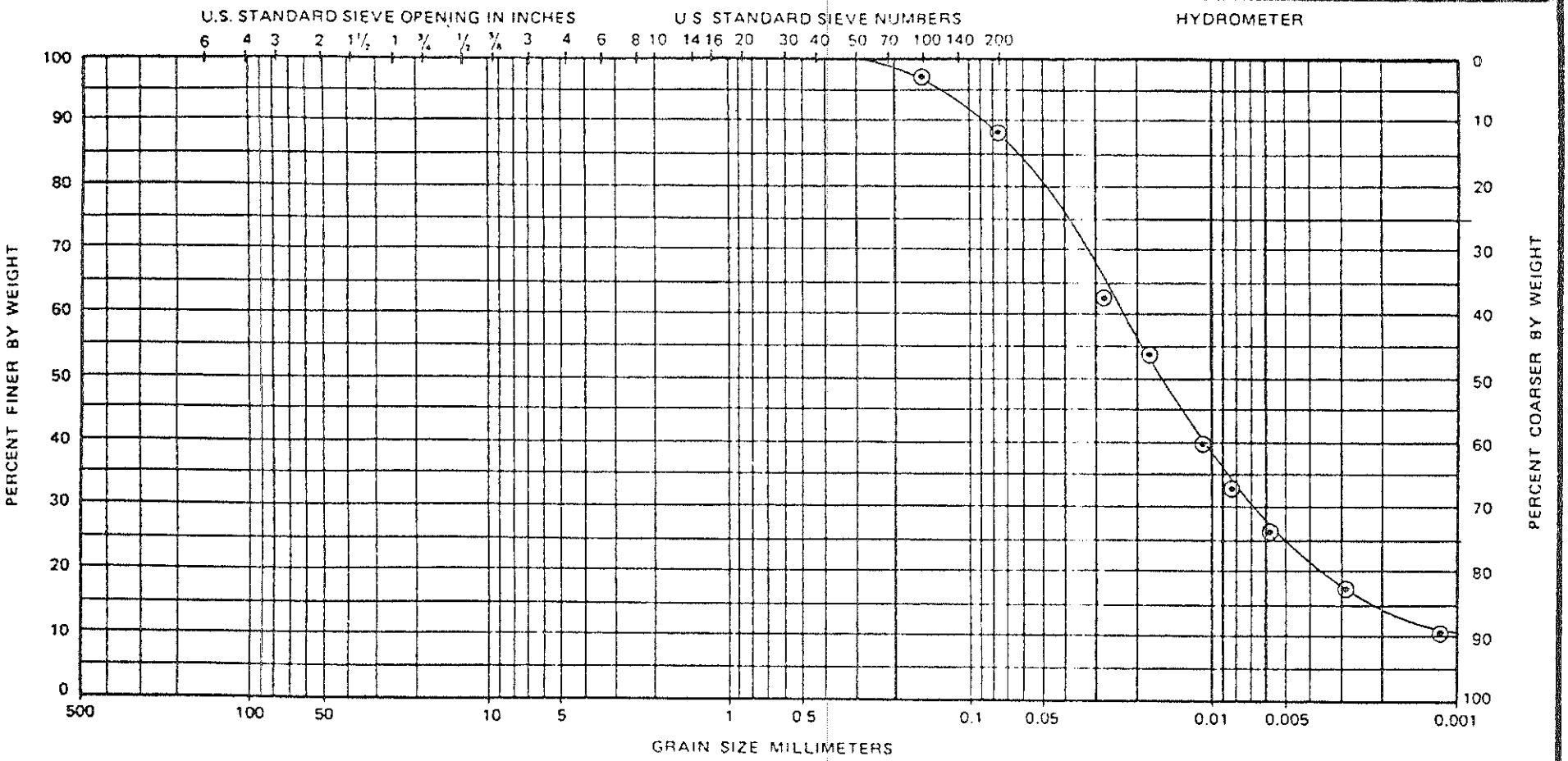
DRY RODDED WGT:

WASHED GRADATION: Yes

PERCENT PASSING NO. 200 SIEVE 0.8 %

CHECKED BY:

GRAIN SIZE ANALYSIS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
B-13		LEAN CLAY, reddish	20.8			
S-7	30'	brown				
		(CL)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT: Adams County Feasibility Study

DATE: 8/25/86

PROJECT NO: 86A22

Toth & Van Dyke

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: August 19 to 22

REPORT NO.: FR13

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Study SOURCE:

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifi-cations
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4				
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	0	0	100	
No. 50				
No. 80				
No. 100	3.2	2.8	97.2	
No. 200	10.4	9.2	88.0	
Pan	99.9	88.4		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 113.0 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED FROM: Boring #13

IDENTIFICATION: Sample #7 @ 30'

DATE SAMPLED: June 1986

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

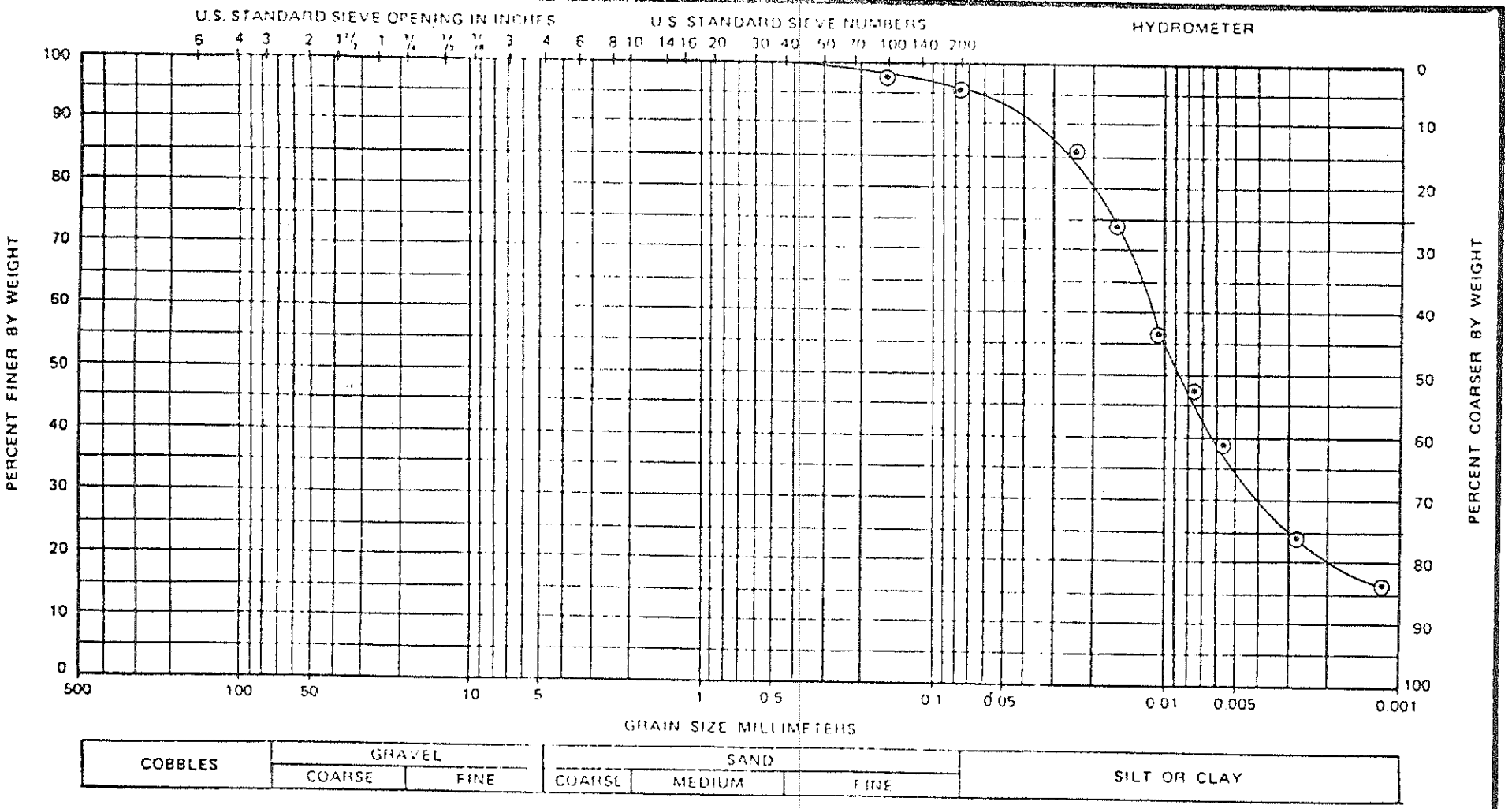
DRY RODDED WGT:

WASHED GRADATION: Yes

PERCENT PASSING NO. 200 SIEVE 88.0 %

CHECKED BY:

GRAIN SIZE ANALYSIS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
B-14		LEAN CLAY, reddish	24-1			
S-6	30'	brown				
		(CL)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT: Adams County Feasibility Study

DATE: 8/25/86

PROJECT NO: 86A22

Toth & Van Dyke

Waste/Energy Division

FORM #317 W/E (4-85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: August 19 to 22, 1986

REPORT NO.: FR14

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Study SOURCE:

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifications
3-Inch				
2-Inch				
1 1/2-Inch				
1-Inch				
3/4-Inch				
1/2-Inch				
3/8-Inch				
No. 4				
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	0	0	100	
No. 50				
No. 80				
No. 100	2.0	2.0	98	
No. 200	1.3	1.3	96.7	
Pan	94.6	96.6		
Fineness Modulus				

RECEIVED AT LABORATORY: June 23, 1986

QUANTITY REPRESENTED: 97.9 grams

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED FROM: Boring 14

IDENTIFICATION: Sample #6 @ 30'

DATE SAMPLED: June 1986

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

DRY RODDED WGT:

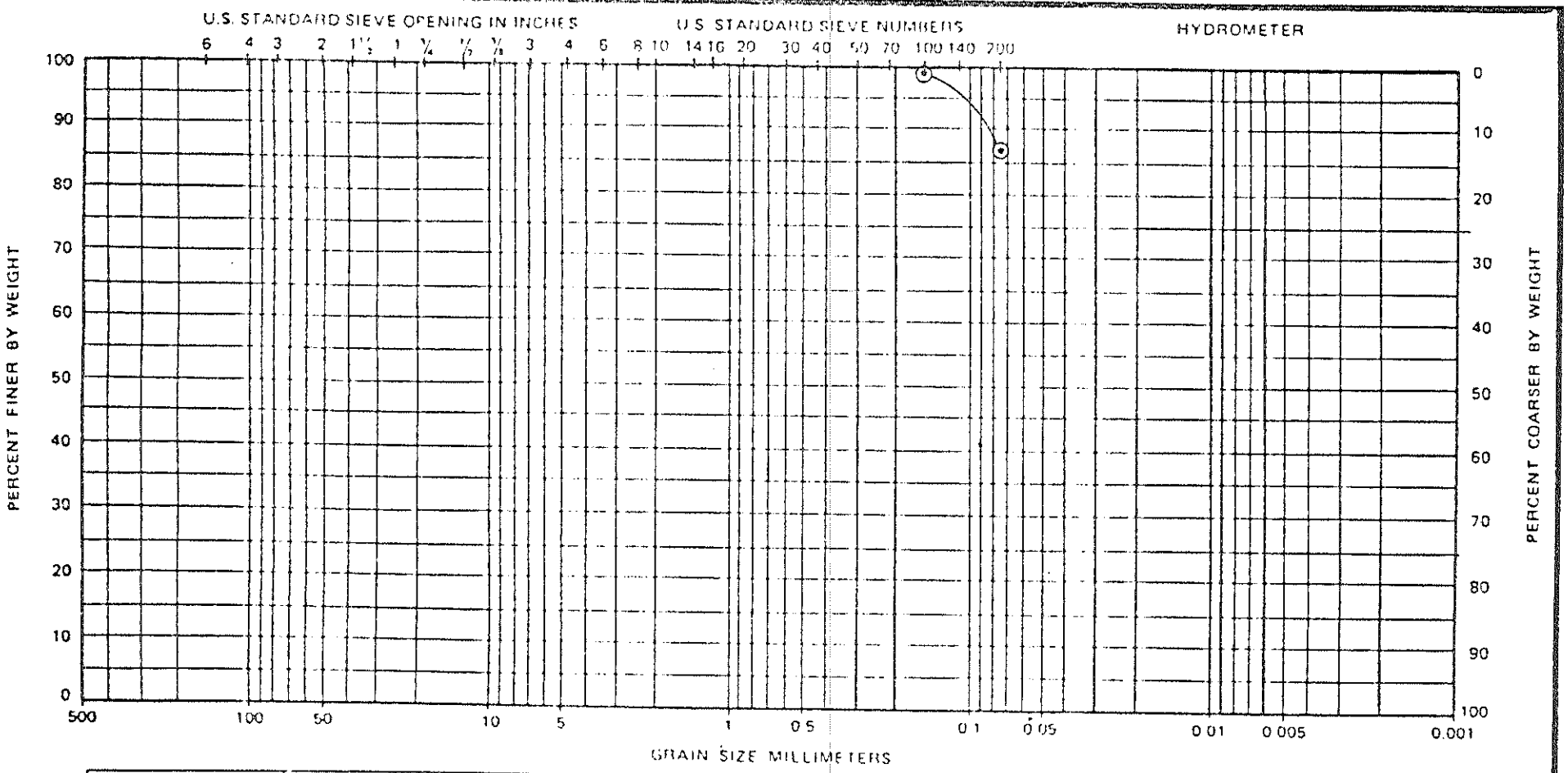
WASHED GRADATION: Yes

PERCENT PASSING NO. 200 SIEVE 96.6 %

CHECKED BY:

FORM #329A SL (5/85)

GRAIN SIZE ANALYSIS



SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring MW-16		SILT, grayish brown	21.9			
S-3	15' to 16.5'					
		(ML)				
DRAWN BY: RRR	APPROVED BY:	NOTES:				

PROJECT Adams County Feasibility Study

DATE: 8/27/86 PROJECT NO: 86A22

Toth & Van Dyke

Waste Energy Division

FORM #317 W/E (4-85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.:

JOB NO.: 86A22

DATE: August 26 to 27, 1986

REPORT NO.: FR-22

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR:

PROJECT: Adams County Feasibility Study SOURCE:

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifications
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4	0	0	100	
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	0	0	100	
No. 50				
No. 80				
No. 100	1.5	1.2	98.8	
No. 200	14.0	11.6	87.2	
Pan	105.7	87.2		
Fineness Modulus				

RECEIVED AT LABORATORY: August 20, 1986

QUANTITY REPRESENTED: 121.2

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED FROM: Boring MW-16

IDENTIFICATION: Sample #3 @ 15' to 16.5'

DATE SAMPLED: August 1986

INTENDED USE:

REMARKS:

ORGANIC MATTER, COLORIMETRIC:

COAL AND LIGNITE:

CLAY LUMPS:

CHERT:

SOFT PARTICLES:

PERCENT ABSORPTION:

SPECIFIC GRAVITY:

DRY RODDED WGT:

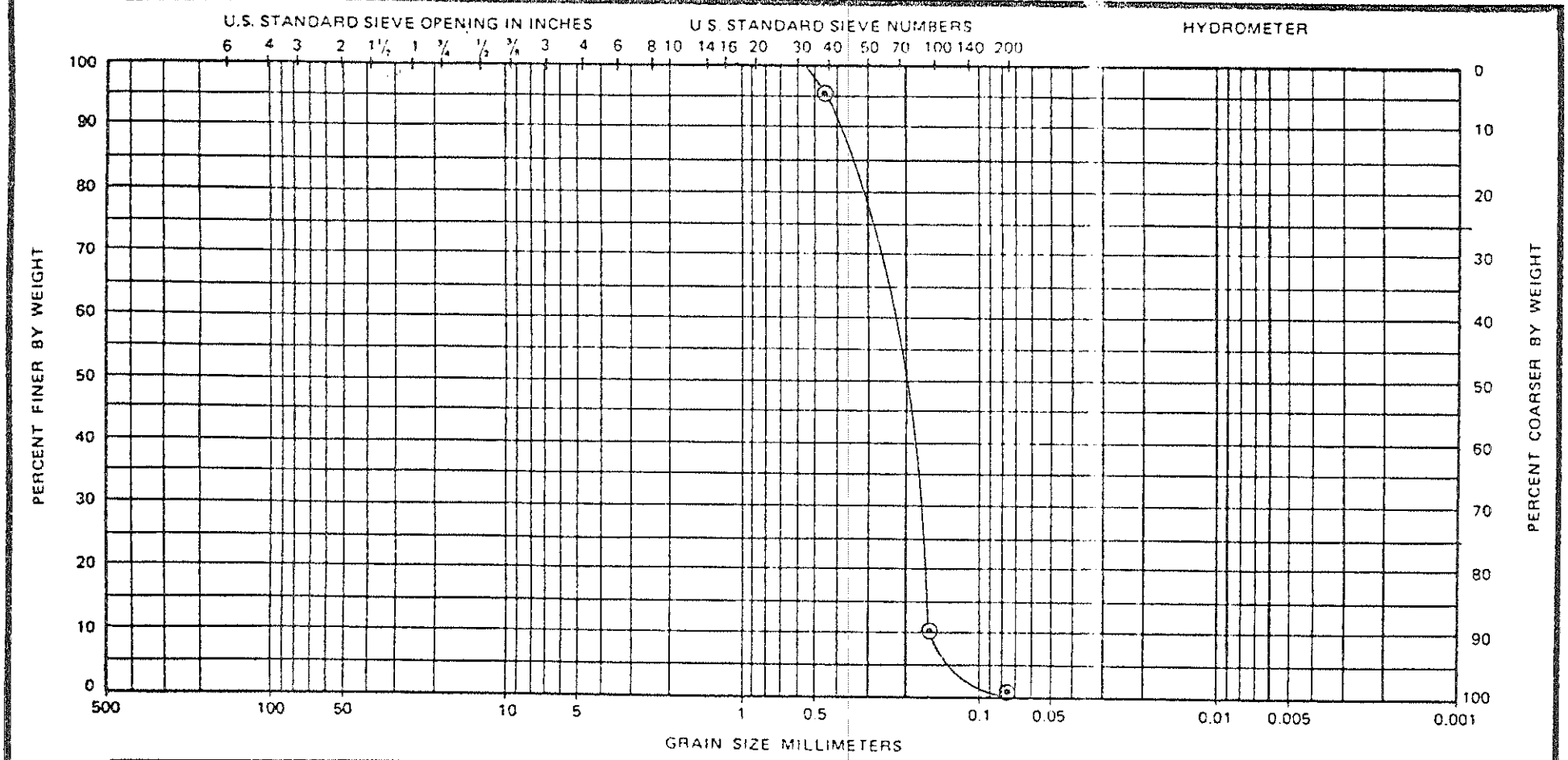
WASHED GRADATION: Yes

PERCENT PASSING NO. 200 SIEVE 87.2 %

Moisture Content of Sample = 21.9%

CHECKED BY:

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring MW-17		SAND, fine grained,				
S-4	20' to 21.5'	light brown				
		(SP)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT: Adams County Feasibility Study

DATE: 8/27/86

PROJECT NO: 86A22

Foth & Van Dyke

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.: _____

JOB NO.: 86A22

DATE: August 26 to 27, 1986

REPORT NO.: FR-23

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR: _____

PROJECT: Adams County Feasibility Study SOURCE: _____

REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifications
3-Inch				
2-Inch				
1 1/2-Inch				
1-Inch				
3/4-Inch				
1/2-Inch				
3/8-Inch				
No. 4	0	0	100	
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	7.4	4.4	95.6	
No. 50				
No. 80				
No. 100	143.9	85.5	10.1	
No. 200	15.1	9.0	1.1	
Pan	1.5	0.9		
Fineness Modulus				

RECEIVED AT LABORATORY: August 20, 1986

QUANTITY REPRESENTED: 168.3g

SUBMITTED BY: Janis Schallhorn of F&VD

SAMPLED FROM: Boring MW-17

IDENTIFICATION: Sample #4 @ 20' to 21.5'

DATE SAMPLED: August 1986

INTENDED USE: _____

REMARKS:

ORGANIC MATTER, COLORIMETRIC: _____

COAL AND LIGNITE: _____

CLAY LUMPS: _____

CHERT: _____

SOFT PARTICLES: _____

PERCENT ABSORPTION: _____

SPECIFIC GRAVITY: _____

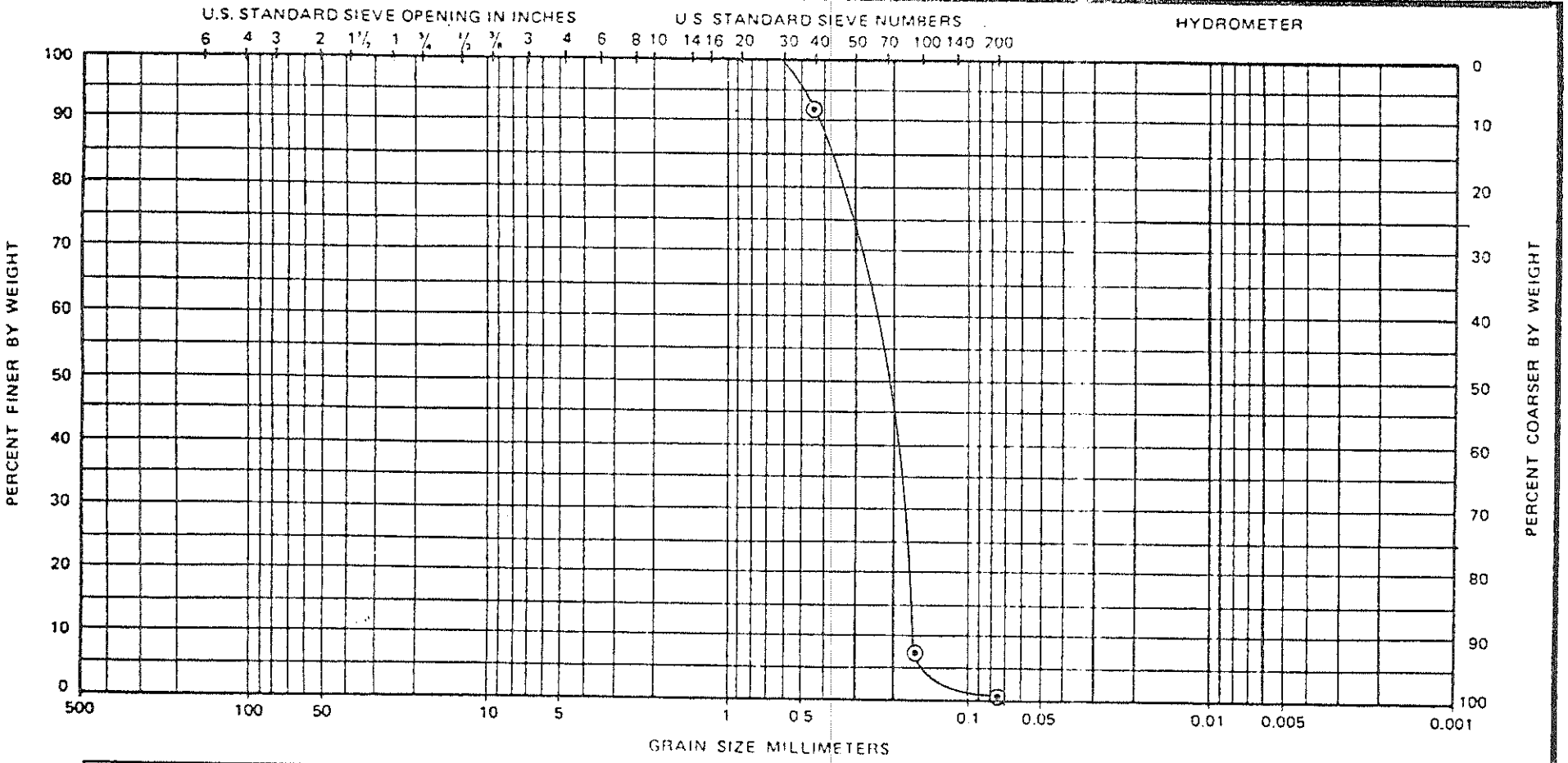
DRY RODDED WGT: _____

WASHED GRADATION: Yes

PERCENT PASSING NO. 200 SIEVE 1.0 %

CHECKED BY: _____

GRAIN SIZE ANALYSIS



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

SAMPLE NO.	ELEV. OR DEPTH	CLASSIFICATION	NAT W%	LL	PL	PI
Boring MW-18		SAND, fine grained				
S-1	5.0' to 6.5'	light brown				
		(SP)				

DRAWN BY: RRR

APPROVED BY:

NOTES:

PROJECT Adams County Feasibility Study

DATE: 8/26/86 PROJECT NO: 86A22

Toth & Van Dyke

Waste/Energy Division

FORM #317 W/E (4/85)

Foth & Van Dyke
Engineers/Architects
2737 S. Ridge Road
P. O. Box 19012
Green Bay, Wisconsin 54307-9012
414/497-2500

PROJECT NO.: _____
JOB NO.: 86A22
DATE: August 26 to 27, 1986
REPORT NO.: FR-24

REPORT OF ANALYSIS OF AGGREGATES

ARCHITECT/ENGINEER: Foth & Van Dyke CONTRACTOR: _____
PROJECT: Adams County Feasibility Study SOURCE: _____
REPORT OF TESTS OF: Proposed Landfill

Sieve Size or No.	Weight Retained	% Retained	% Passing	Specifications
3-Inch				
2-Inch				
1½-Inch				
1-Inch				
¾-Inch				
½-Inch				
⅜-Inch				
No. 4	0	0	100	
No. 8				
No. 10	0	0	100	
No. 16				
No. 20				
No. 30				
No. 40	12.5	7.6	92.4	
No. 50				
No. 80				
No. 100	140.4	84.8	7.6	
No. 200	11.7	7.1	0.5	
Pan	0.9	0.5		
Fineness Modulus				

RECEIVED AT LABORATORY: August 20, 1986
QUANTITY REPRESENTED: 165.5 grams
SUBMITTED BY: Janis Schallhorn of F&VD
SAMPLED FROM: Boring MW-18
IDENTIFICATION: Sample #1 @ 5' to 6.5'
DATE SAMPLED: August 1986
INTENDED USE: _____

REMARKS:

ORGANIC MATTER, COLORIMETRIC: _____
COAL AND LIGNITE: _____
CLAY LUMPS: _____
CHERT: _____
SOFT PARTICLES: _____
PERCENT ABSORPTION: _____
SPECIFIC GRAVITY: _____
DRY RODDED WGT: _____
WASHED GRADATION: Yes
PERCENT PASSING NO. 200 SIEVE 0.5 %

CHECKED BY: _____

APPENDIX H

Infield Permeability Data

INFIELD PERMEABILITY REPORT

Bail Down Test Methodology

Each bail down test was conducted by initially putting a pressure transducer, with LCD readout in feet, into a well below the static water level. After recording the initial water level, a four foot by 3/4-inch galvanized iron pipe was lowered below the water level, the water was allowed to stabilize and the stabilized reading was recorded. The pipe was then removed from the well. At the instant the minimum water level reading was recorded (a few seconds into the test) a stopwatch was started and rising water level measurements (h) with time (t) were recorded.

The analytical methodology used to evaluate these data is based upon theory presented by Spangler and Handy*.

The formula for hydraulic conductivity is:

$$K = 0.617 * \frac{r}{S*d} * \frac{dh}{dt} * 30.48 \text{ cm/ft}$$

Where:

K = hydraulic conductivity (cm/second)

r = borehole radius (ft)

S = a coefficient which is dependent on the ratios h/d and r/d (Fig. 11-11 of Soil Engineering),

d = depth of borehole below water table (ft).

h = depth (ft) of water in hole at the time dh/dt is determined

dh/dt = rate of rise of water level (ft/second) in hole at depth h, and

t = time (seconds),

* Spangler, M.G. and R.L. Handy, Soil Engineering, 3rd Edition, Intext Educational Publishers, New York, 1973, p. 253-256.

Slug Test Methodology

Each slug test was conducted by initially putting a pressure transducer, with LCD readout in feet, into a well below the static water level. After recording the initial starting level (H), a four foot by 3/4-inch galvanized iron pipe (slug) was lowered below the water level and the maximum water level reading (Ho) recorded. At the instant this maximum water level was reached (a few seconds into the test), a stopwatch was started and declining water level measurements (h) with time (t) were recorded.

Also noted for the purposes of data evaluation were the well casing diameter (r), the boring diameter (R), and the well screen length (L).

The analytical methodology used to evaluate these data is based upon theory presented by Freeze and Cherry*. The formula for hydraulic conductivity (K) is:

$$K = \frac{r^2 \ln(L/R)}{2 L T_o}$$

The key variable in this equation is T_o, the basic time lag. T_o is derived by plotting the natural logarithon of the residual head ratio (RHR - the ratio of [h-H], the difference between the maximum rise in water level and the starting water level), against the time (t) at which the head measurement (h) was taken. On semi-log paper these points plot as a straight line.

FIGURE NO. H-1

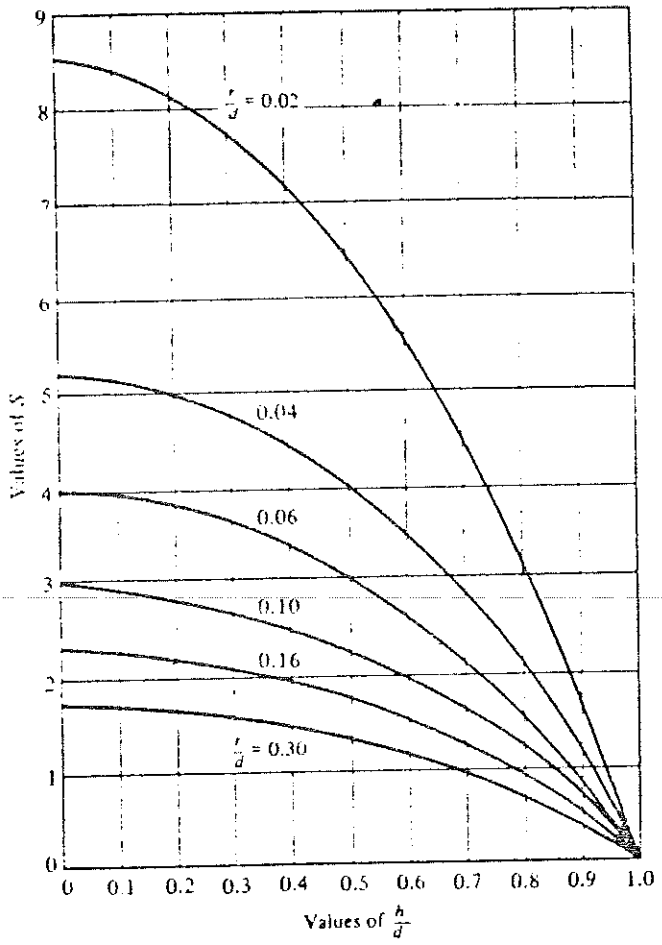


Fig. 11-11. Values of S in Eq. (11-17).

Source: Spangler, M.G. and R.L. Handy, Soil Engineering, 3rd. Edition, Intext Educational Publishers, New York, 1973, p. 255

WATER TABLE MONITORING WELL
HYDRAULIC CONDUCTIVITY SUMMARY

Well	t (sec)	r (ft)	d (ft)	r/d	h (ft)	h/d	S	dh/dt (ft/s)	K (cm/s)
MW-1*	10	0.292	11.95	0.02	11.89	0.99	0.1	0.015	6.9×10^{-2}
MW-2*	40	0.292	12.56	0.02	11.90	0.95	0.8	0.002	1.1×10^{-3}
MW-3*	15	0.292	13.32	0.02	12.62	0.95	0.8	0.015	7.7×10^{-3}
MW-6	15	0.333	11.60	0.03	10.90	0.94	0.8	0.007	4.7×10^{-3}
MW-7	5	0.333	5.62	0.06	5.24	0.93	0.6	0.022	4.1×10^{-2}
MW-8	15	0.333	7.21	0.05	6.71	0.93	0.7	0.007	8.7×10^{-3}
MW-9	10	0.333	3.53	0.09	3.02	0.86	1.0	0.0075	1.3×10^{-2}
MW-16	15	0.333	6.70	0.05	6.18	0.92	0.8	0.014	1.6×10^{-2}
MW-17	15	0.333	10.58	0.03	9.84	0.93	1.1	0.010	5.4×10^{-3}
MW-18	15	0.333	6.40	0.05	5.91	0.92	0.8	0.013	1.6×10^{-2}

*Screen wrapped in filter fabric

The slope of this line is used to determine the time (t) at which ln(RHR) is -1. This time value is T_o, which is then used in the above equation to calculate the value of hydraulic conductivity for the test.

* Freeze, R.A. and J.A. Cherry, Groundwater, Prentice-Hall, Inc. Englewood Cliffs, New Jersey, 1979, pp. 340-341.

IN FIELD HYDRAULIC CONDUCTIVITY SUMMARY
PIEZOMETER RESULTS - SLUG TEST METHOD

Well	K (cm/s)
MW-3P	2.4×10^{-4}
MW-6P	4.5×10^{-4}
MW-7P	2.2×10^{-3}
MW-18P	4.6×10^{-4}

ADAMS COUNTY LANDFILL
FEASIBILITY STUDY PERMEABILITY TESTS
SLUG TEST RESULTS: WELL 3P

Equation: $K = \frac{r^2 \ln(L/R)}{2 L T_o}$

r = well radius = 2.54 cm

L = screen sand pack length = 228.60 cm

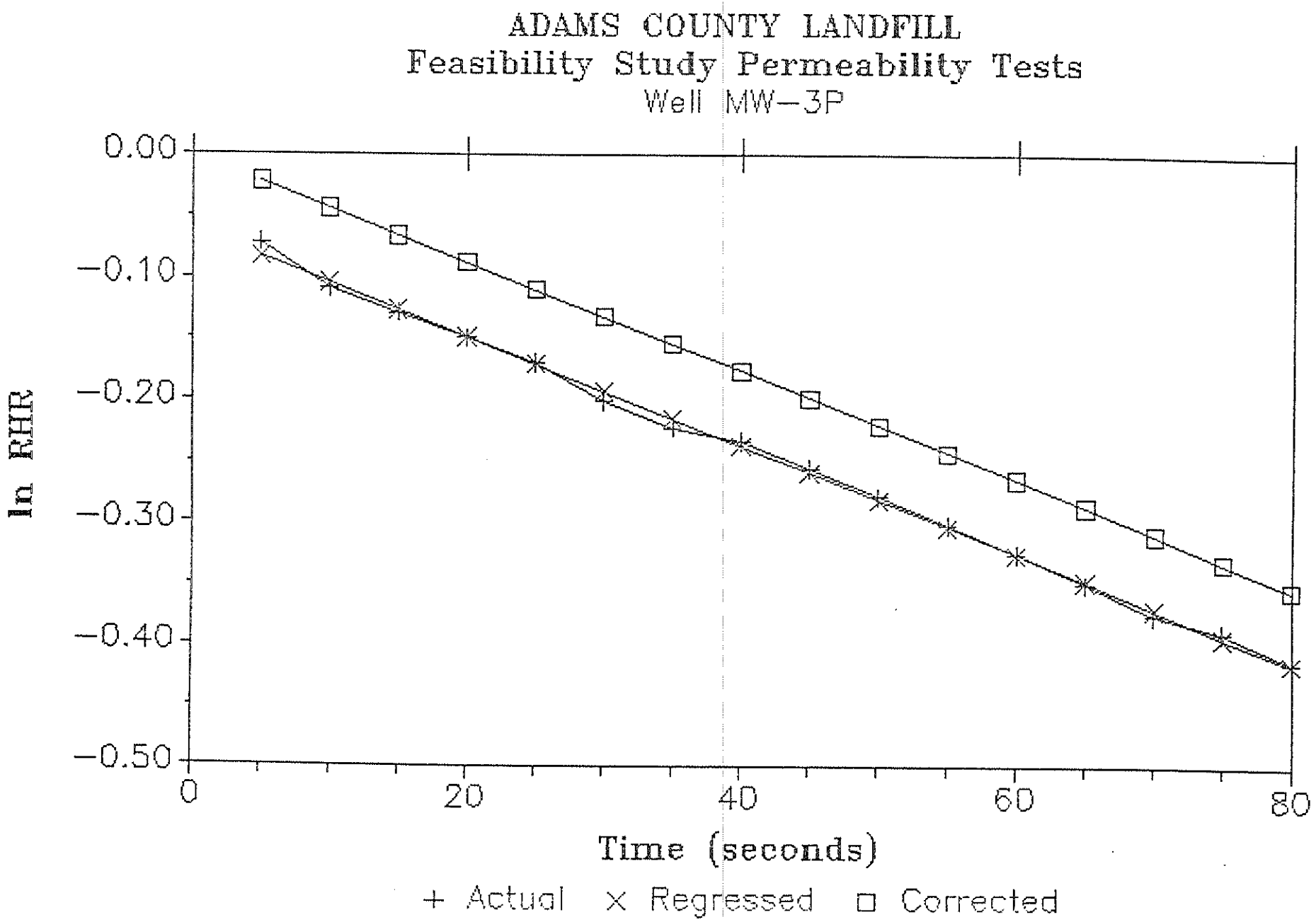
R = borehole radius = 5.08 cm

H_o = initial head difference = 1.15 feet

T_o = time lag = 224.8 seconds

---> K = hydraulic conductivity = 2.4×10^{-4} cm/second

Note: -T_o corresponds to the time when the natural log (ln) of the residual head ratio is -1.00
-RHR is the Residual Head Ratio which is the ratio of the unrecovered head difference (H) and the initial head difference (H_o) created by the added/removed water


ADAMS COUNTY LANDFILL
Feasibility Study Permeability Tests
Well MW-3P
0.00
-0.10
-0.20
-0.30
-0.40
-0.50
ln RHR
0
20
40
60
80
Time (seconds)
+ Actual × Regressed □ Corrected
Data From Slug Test

ADAMS COUNTY LANDFILL
FEASIBILITY STUDY PERMEABILITY TESTS
SLUG TEST RESULTS: WELL 6P

Equation: $K = \frac{r^2 \ln(L/R)}{2 L T_o}$

r = well radius = 2.54 cm

L = screen sand pack length = 243.84 cm

R = borehole radius = 5.08 cm

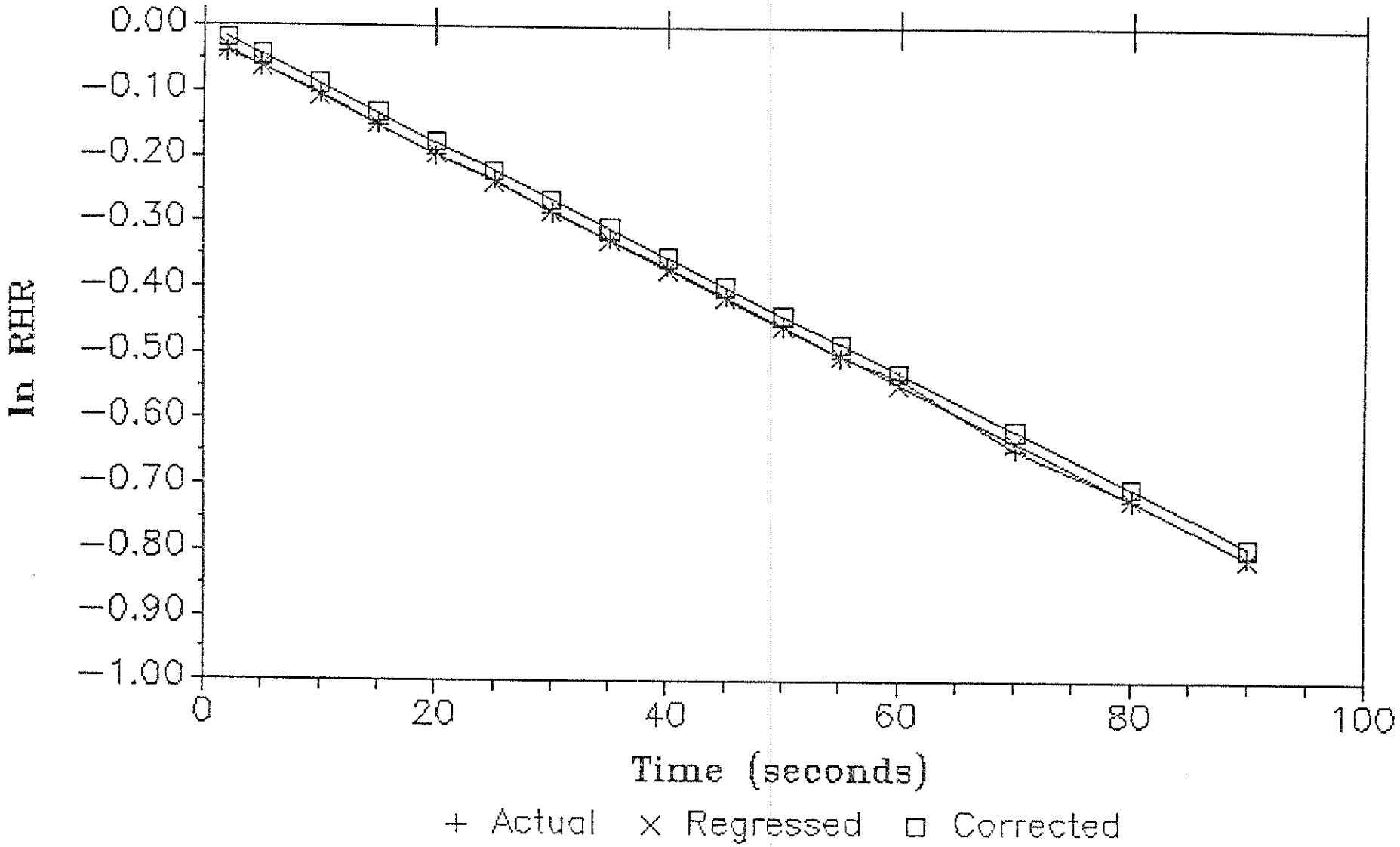
H_o = initial head difference = 1.01 feet

T_o = time lag = 112.9 seconds

---> K = hydraulic conductivity = 4.5×10^{-4} cm/second

Note: -T_o corresponds to the time when the natural log (ln) of the residual head ratio is -1.00
-RHR is the Residual Head Ratio which is the ratio of the unrecovered head difference (H) and the initial head difference (H_o) created by the added/removed water

ADAMS COUNTY LANDFILL
Feasibility Study Permeability Tests
Well MW – 6P



Data From Slug Test

ADAMS COUNTY LANDFILL
FEASIBILITY STUDY PERMEABILITY TESTS
SLUG TEST RESULTS: WELL 7P

Equation: $K = \frac{r^2 \ln(L/R)}{2 L T_o}$

r = well radius = 2.54 cm

L = screen sand pack length = 243.84 cm

R = borehole radius = 5.08 cm

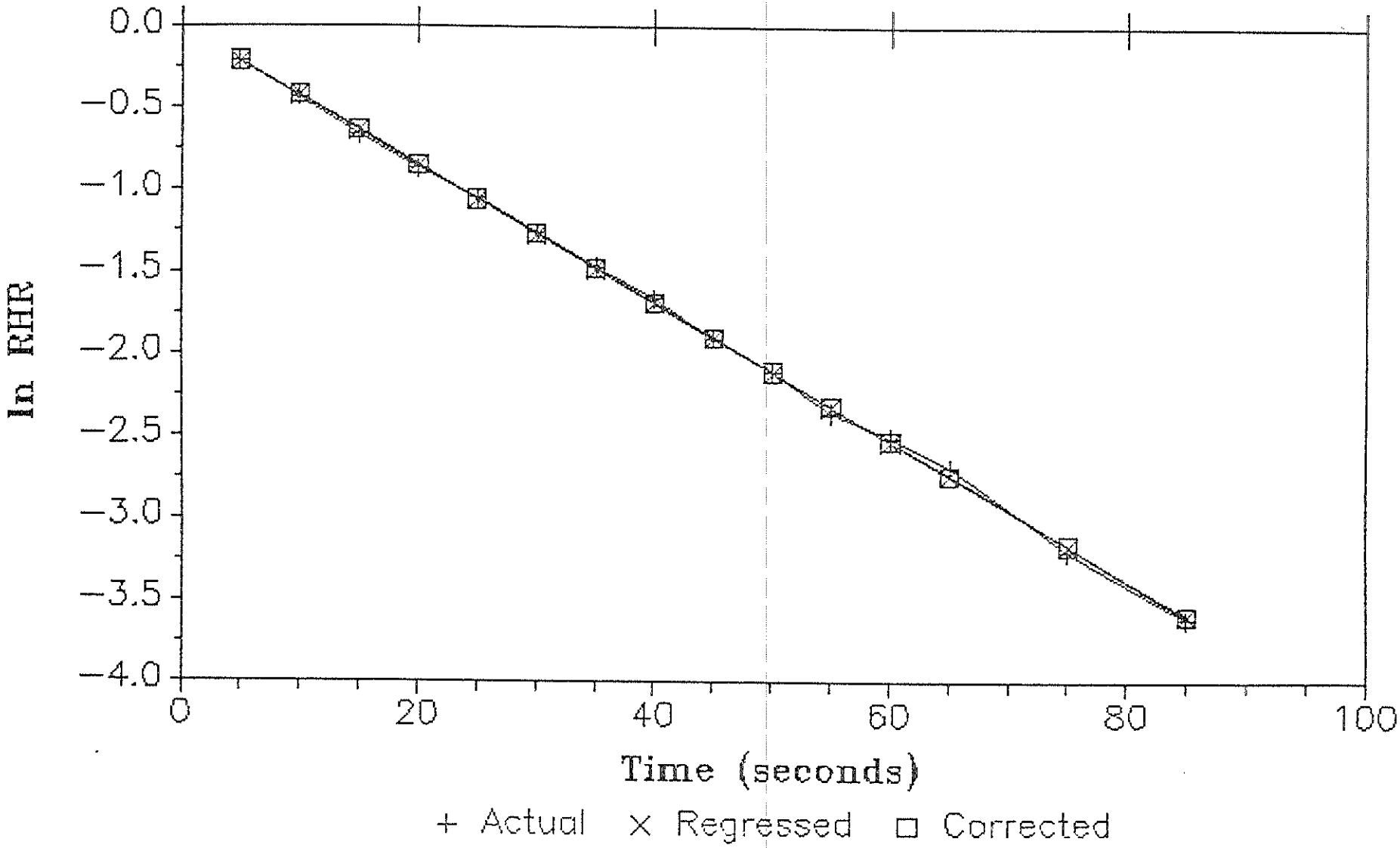
H_o = initial head difference = 0.74 feet

T_o = time lag = 23.6 seconds

---> K = hydraulic conductivity = 2.2×10^{-3} cm/second

Note: -T_o corresponds to the time when the natural log (ln) of the residual head ratio is -1.00
-RHR is the Residual Head Ratio which is the ratio of the unrecovered head difference (H) and the initial head difference (H_o) created by the added/removed water

ADAMS COUNTY LANDFILL
Feasibility Study Permeability Tests
Well MW – 7P



Data From Slug Test

ADAMS COUNTY LANDFILL
FEASIBILITY STUDY PERMEABILITY TESTS
SLUG TEST RESULTS: WELL 18P

Equation: $K = \frac{r^2 \ln(L/R)}{2 L T_o}$

r = well radius = 2.54 cm

L = screen sand pack length = 228.60 cm

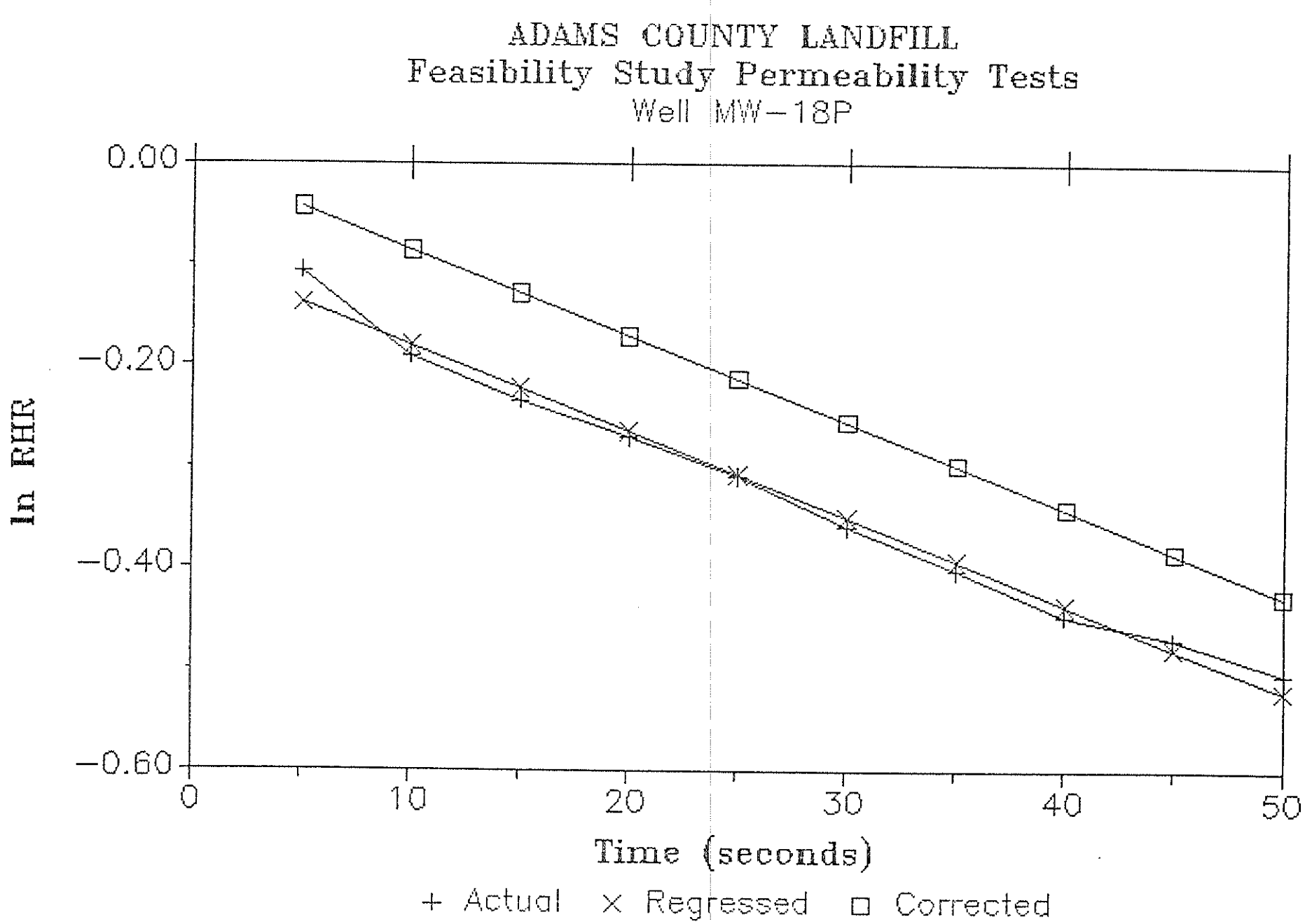
R = borehole radius = 5.08 cm

H_o = initial head difference = 1.39 feet

T_o = time lag = 116.6 seconds

---> K = hydraulic conductivity = 4.6×10^{-4} cm/second

Note: -T_o corresponds to the time when the natural log (ln) of the residual head ratio is -1.00
-RHR is the Residual Head Ratio which is the ratio of the unrecovered head difference (H) and the initial head difference (H_o) created by the added/removed water



Data From Slug Test

APPENDIX I

Private Well Logs

State of Wisconsin
artment of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300–15 Rev. 2-79

JAN 13 1985

1. DUNTY: Adams

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Strongs Prairie

2. LOCATION: ¼ Section or Gov't. Lot: NE¼, SW¼ | Section: 11 | Township: 18N | Range: 5E

R – Grid or Street No. | Street or Road Name: Cottonville Lane

AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: George G. Mock Jr.

ADDRESS: 1474 16th Ave., Rt. 1

POST OFFICE: Arkdale, WI | ZIP CODE: 54613

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
4'	–	–	–	–	–	–	–	–	–	–

Sanitary Sewer	Storm Sewer	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Foundation Drain Connected to: Clearwater Dr.	Foundation Drain Connected to: Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit: Seepage Pit	Sewage Absorption Unit: Seepage Bed	Sewage Absorption Unit: Seepage Trench	Manure Hopper or Retention or Pneumatic Tank
–	–	–	–	–	–	–	–	–	–	–	>25	–		>50		–

Pet Waste Pit	Pit: Nonconforming Existing: Well	Pump	Tank	Subsurface Pumproom: Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
–		---		–	–	–	–	–	–	–	–	–

Temporary Manure Tank or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin: Concrete Floor Only	Concrete Floor and Partial Concrete Walls	Other (Describe)
–	–	–	–	–		---	–

5. Well is intended to supply water for: Residential Use

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
5"	Surface	5'	2"	5'	66'

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
"	Cyclops Corp. ASTM-A-589, 2" IPS .154 Wall, 3.75#/ft.	Surface	63'
¼"	3' Johnson Point (10 Slot)	63'	66'
2"	Threaded Couplings		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
None	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	20'
Clay	20'	39'
Sand	39'	66'

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☐ Rotary-hammer & air
☐ Reverse Rotary
☒ Jetting with ☐ Air ☒ Water

11. MISCELLANEOUS DATA

Yield Test: 1 Hrs. at 10 GPM

Depth from surface to normal water level 20 Ft.

Depth of water level when pumping 23 Ft. Stabilized ☒ Yes ☐ No

Well construction completed on November 20 19 84

Well is terminated 12" inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Wisconsin State Laboratory of Hygiene laboratory on January 15 19 85

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature

Business Name and Complete Mailing Address

5740 W. Brooklyn, Milwaukee, WI 53216

L CONSTRUCTOR'S REPORT

RM 3300-15

SEP 18 1975 OCT NOTE 1 1975

WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

COUNTY: Adams

CHECK ONE: ☒ Town ☐ Village ☐ City

NAME: Strongs Prairie

LOCATION – ¼ Section: SE¼ | Section: 13 | Township: 18 N | Range: 5 E

3. OWNER AT TIME OF DRILLING: J. C. Dennis

Number or street no. | Street name

ADDRESS

SUBD – If available subdivision name, lot & block no.

POST OFFICE: Friendship

Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
5								

WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
	25		50					

POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

Well is intended to supply water for: Private Home

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	50			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
2	Rd D Gal. Pipe New Steel 3# FT	Surface	47
1½	CLAYTON MARK 35121 Well Screen	47	50

9. FORMATIONS

Kind	From (ft.)	To (ft.)
SAND	Surface	30
CLAY	30	45
SAND	45	50

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☒ Water

Well construction completed on: ~~Sept~~ 9-29 19 75

Well is terminated 10 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 2 Hrs. at 10 GPM

Static level from surface to normal water level 20 ft.

Depth to water level when pumping 20 ft.

Water sample sent to Madison ~~Sept~~ Wis laboratory on: ~~Sept~~ Sept. 30 19 75

In your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Jim Phillips Registered Well Driller

COMPLETE MAIL ADDRESS: Brooks, Wis

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

JUL 22 1980 3

WELL CONSTRUCTOR'S REPORT
FORM 3300-15

NOTE
WHITE COPY – DIVISION'S COPY
GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Adams
CHECK ONE: ☒ Town ☐ Village ☐ City
NAME: Preston

2. LOCATION – ¼ Section: SE | Section: 18 | Township: 18N | Range: 6E
OR – Grid or street no. | Street name: Hwy 21
SUBDIVISION – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: Paul Pasko
ADDRESS: Route 3
POST OFFICE: Friendship Wis

4. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
6		✓						

CLEAR WATER DRAIN I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		36			90				

5. OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

6. Well is intended to supply water for: Home

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
4	Surface	85			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
4"	New Black Buttweld	Surface	82
	T+C Wt 11 lbs		
	Astm 120		
	Screened	82	85
	Johnson 55 15 slot 4"x3'		

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	35
Clay	35	45
Sand	45	85

10. TYPE OF DRILLING MACHINE USED
☒ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☐ Jetting with ☐ Air ☐ Water

11. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

12. MISCELLANEOUS DATA
Yield test: 4 Hrs. at 12 GPM
Depth from surface to normal water level: 23 ft.
Depth to water level when pumping: 23 ft.

Well construction completed on: 7/16 19 80
Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☑ Yes ☐ No
Well sealed watertight upon completion ☑ Yes ☐ No

Water sample sent to: Madison laboratory on: July 18 1980

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Thomas Klass Registered Well Driller
COMPLETE MAIL ADDRESS: Oxford (Wis)

Please do not write in space below

UNIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 2-79

JUN 3 1985

1. COUNTY: Adams

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Preston

2. LOCATION: ¼ Section or Gov't. Lot: SW¼ SW¼ | Section: 19 | Township, Range: 18N 6E

OR – Grid or Street No.: 1384 | Street or Road Name: Cumberland

AND – If available subdivision name, lot & block No.: Town N' Country Sub. lot 42 & 43

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Mr. Arthur Moses

ADDRESS: 5030 N. Avers

POST OFFICE: Chicago, Illinois ZIP CODE: 60625

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sew C.I.	Storm Bldg. Sew Other
4'	–	–	–	–	–	–	–	–	–	–

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer	Foundation Drain Connected to: Sewage Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pneumatic Tank
–	–	–	–	Clearwater Dr. –	Clearwater Sump –	–	–	–	>25	–	Seepage Pit; Seepage Bed >50; Seepage Trench	–

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
–		Well – – Pump Tank	– –	–	–	–	–	–	–	–	–

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin; Concrete Floor Only; Concrete Floor and Partial Concrete Walls	Other (Describe)
–	–	–	–	–	–	–

5. Well is intended to supply water for: Residential Use

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6"	Surface	5'	2"	5'	50'

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
2"	Cyclops Corp ASTM-A-589, 2" IPS .154 Wall, 3.75#/ft	Surface	47'
1¼"	3' Johnson Point (8 slot)	47'	50'
2"	Threaded Couplings		

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
None	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	22'
Clay	22'	28'
Sand	28'	50'

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☒ Jetting with ☐ Air ☒ Water

11. MISCELLANEOUS DATA

Yield Test: 1 Hrs. at 10 GPM

Depth from surface to normal water level 30' Ft.

Depth of water level when pumping 35' Ft. Stabilized ☒ Yes ☐ No

Well construction completed on April 27, 19 85

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Wisconsin State Laboratory of Hygiene laboratory on May 31, 1985 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: [signature] Registered Well Driller

Business Name and Complete Mailing Address: 5740 W. Brooklyn, Milwaukee, WI 53216

FEB 24 1971 5

WELL CONSTRUCTOR'S REPORT

Well 5

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YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

COUNTY: Adams
CHECK ONE: [X] Town ☐ Village ☐ City
NAME: Preston

LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)
SE¼ Sec 19 T18N-R6E Lot 38

OWNER AT TIME OF DRILLING: Robert Farber.

OWNER'S COMPLETE MAIL ADDRESS: Friendship Wis

Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C.I.	SANITARY SEWER TILE	FLOOR DRAIN C.I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C.I.	WASTE WATER DRAIN TILE
5								

CLEAR WATER DRAIN C.I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		45			105				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

Well is intended to supply water for: home

DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
2	Surface	51			

CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
2 in	new STD Galv	Surface	48
	R&D WT 3.68		
	with Long Couplings		
Screened		48	51
Clayton mark SS101			
...	Part Sc ...		

GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	51.

Well construction completed on Feb 18 1971

Well is terminated 10 inches [X] above ☐ below final grade

Well disinfected upon completion [X] Yes ☐ No

Well sealed watertight upon completion [X] Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 2 Hrs. at 10 GPM

Depth from surface to normal water level 32 ft.

Depth to water level when pumping 32 ft.

Water sample sent to Madison Wis laboratory on: Feb 23 1971

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Gordon Roos Registered Well Driller

COMPLETE MAIL ADDRESS: Oxford, Wis

Please do not write in space below

COLIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

plot

WELL CONSTRUCTOR'S REPORT

GM 300–15

AUG 1 ..2

NOTE
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YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

6

COUNTY: Adams

CHECK ONE: ☒ Town ☐ Village ☐ City

NAME: Preston

LOCATION – ¼ Section: SE | Section: 19 | Township: 16N | Range: 6E

3. OWNER AT TIME OF DRILLING: Howard Boaett

Grid or street no. | Street name: Cumberland Drive

ADDRESS: 2008 Webster Lane

If available subdivision name, lot & block no.: Wildwood Lot # 33

POST OFFICE: Des Plaines Ill 60018

Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN: SEWER CONNECTED	FOUNDATION DRAIN: INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
15	---	---	---	---	---	---	---	---

WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
---	40	--	---	60	--	--	---	---

POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

Well is intended to supply water for: Mobile Home

BOREHOLE

Dia. (in.)	From (ft.)	To (ft.)
	Surface	58

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	58

CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
2	New Std Galv T&C	Surface	55
	WT 3.68		
	Screened	55	58
	Clayton Mark SS121		
	60 Ga. Part No 80008LB		

GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☒ Jetting with ☐ Air ☒ Water

Well construction completed on 7-31 1972

11. MISCELLANEOUS DATA

Yield test: 2 Hrs. at 10 GPM

Depth from surface to normal water level: 20 ft.

Depth to water level when pumping: 20 ft.

Well is terminated 10 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison laboratory on: 7-31 1972

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, types of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Thomas Roos Registered Well Driller

COMPLETE MAIL ADDRESS: Oshkosh, Wis

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

L CONSTRUCTOR'S REPORT
3[illegible]-15

JUL 18 1974

NOTE
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GREEN COPY – DRILLER'S COPY
YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

UNTY: Adams	CHECK ONE: [X] Town [ ] Village [ ] City	NAME: Preston			
CA..ION –	¼ Section: SE	Section: 19	Township: 18N	Range: 6E	3. OWNER AT TIME OF DRILLING: Steve Repta Jr
Gr or street no.	Street name: Cypress Ave&Hwy 13				ADDRESS: R#2
If available subdivision name, lot & block no.					POST OFFICE: Friendship Wi

Distance in feet from well to nearest: (Record answer in appropriate block)	BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
	4	–	–	–		–	–	–	–

ATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
–	-37	–	–	65	–	–	–	–

K POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)
–

Well is intended to supply water for: Home

OR LHOLE

...)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
2	Surface	65			

CASING, LINER, CURBING, AND SCREEN

...)	Kind and Weight	From (ft.)	To (ft.)
2	New Std Galv T&C	Surface	62
	WT 3.68		
	Screened	62	65
	Clayton Mark S5121		
	60 Ga Part 80008LB		

..OUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	65

10. TYPE OF DRILLING MACHINE USED
[ ] Cable Tool [ ] Direct Rotary [ ] Reverse Rotary
[ ] Rotary – air w/drilling mud [ ] Rotary – hammer with drilling mud & air [X] Jetting with [ ] Air [X] Water

Well construction completed on 7-8 19 74

Well is terminated 15 inches [X] above [ ] below final grade

Well disinfected upon completion [X] Yes [ ] No

Well sealed watertight upon completion [X] Yes [ ] No

7. ISCELLANEOUS DATA
...ield test: 2 Hrs. at 10 GPM
...ep from surface to normal water level 19 ft.
...epth to water level when pumping 19 ft.

Wat sample sent to Madison laboratory on: 7-17 19 74

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, ...ype of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should ...be g...en on reverse side.

SIGNATURE: [signature] Registered Well Driller

COMPLETE MAIL ADDRESS: Box 82 Friendship Wis

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

APR 15 1975

WELL CONSTRUCTOR'S REPORT
FORM 3300–15

NOTE
DIVISION'S COPY
– DRILLER'S COPY
Y – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

1. COUNTY: Adams

CHECK ONE: ☒ Town ☐ Village ☐ City

NAME: Preston

LOCATION – ¼ Section: SE¼ | Section: 19 | Township: T 18N | Range: R-6E

OR – Grid or street no. | Street name

AND – If available subdivision name, lot & block no.

3. OWNER AT TIME OF DRILLING: George Selbekt

ADDRESS

POST OFFICE: Friendship

Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
5'								

CLEAR WATER DRAIN C. I.	CLEAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		NONE IN			NINE IN				

OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

Well is intended to supply water for: Home

DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
2.	Surface	45'			

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand & gravel	Surface	45'

7. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
2	R-D new gal pipe Threaded S.&C., IPS	Surface	42
1¼	Lapsa Climax Mach. Slot. Screen	42	45'

GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool ☐ Direct Rotary ☐ Reverse Rotary
☐ Rotary – air w/drilling mud ☐ Rotary – hammer with drilling mud & air ☒ Jetting with ☐ Air ☒ Water

Well construction completed on: 9–14 1974

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

MISCELLANEOUS DATA

Yield test: 2 Hrs. at 8 GPM

Depth from surface to normal water level: 27 ft.

Depth to water level when pumping: 27 ft.

Water sample sent to laboratory on: 19

In your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, sub-surface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE: Wayne Mulvaney Registered Well Driller

COMPLETE MAIL ADDRESS: R-2 Coloma, Wis

Please do not write in space below

COLIFORM TEST RESULT	GAS – 24 HRS.	GAS – 48 HRS.	CONFIRMED	REMARKS

WELL CONSTRUCTOR'S REPORT

Wel–6

MAY 17 19..

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YELLOW COPY – OWNER'S COPY

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES
Box 450
Madison, Wisconsin 53701

9

COUNTY	CHECK ONE	NAME
Adams	☒ Town ☐ Village ☐ City	Preston

2. LOCATION (Number and Street or ¼ section, section, township and range. Also give subdivision name, lot and block numbers when available.)

W½ - SE¼ Sec. 19 T18N R6E Lot 30 Park View Acres

OWNER AT TIME OF DRILLING

Russell Owens

OWNER'S COMPLETE MAIL ADDRESS

R-a Friendship Wisc.

5. Distance in feet from well to nearest: (Record answer in appropriate block)

BUILDING	SANITARY SEWER C. I.	SANITARY SEWER TILE	FLOOR DRAIN C. I.	FLOOR DRAIN TILE	FOUNDATION DRAIN SEWER CONNECTED	FOUNDATION DRAIN INDEPENDENT	WASTE WATER DRAIN C. I.	WASTE WATER DRAIN TILE
4'								

REAR WATER DRAIN C. I.	REAR WATER DRAIN TILE	SEPTIC TANK	PRIVY	SEEPAGE PIT	ABSORPTION FIELD	BARN	SILO	ABANDONED WELL	SINK HOLE
		40'			56'				

6. OTHER POLLUTION SOURCES (Give description such as dump, quarry, drainage well, stream, pond, lake, etc.)

7. Well is intended to supply water for:

Mobile Home

7. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
2	Surface	50			

8. CASING, LINER, CURBING, AND SCREEN

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
2"	R-D New Gal. Pipe Threaded Both Ends	Surface	47
¼	#121 Bodmer Louver Type Screen	47	50

9. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

10. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	30
Clay	30	36
Sand	36	50

Well construction completed on 5-7 19 73

Well is terminated 10 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

11. MISCELLANEOUS DATA

Yield test: 2 Hrs. at 10 GPM

Depth from surface to normal water level 20 ft.

Depth to water level when pumping 21 ft.

Water sample sent to Madison laboratory on: 5-14 19 73

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, type of casing joints, method of finishing the well, amount of cement used in grouting, blasting, subsurface pumprooms, access pits, etc., should be given on reverse side.

SIGNATURE		COMPLETE MAIL ADDRESS
Duane Windsor	Registered Well Driller	R-2 Colome, Wisc.

Please do not write in space below

12. UNIFORM TEST RESULT	GAS — 24 HRS.	GAS — 48 HRS.	CONFIRMED	REMARKS

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 2-79

FEB 9 1984

1. COUNTY: Adams
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Preston

2. LOCATION: ¼ Section or Gov't. Lot: SW NE | Section: 19 | Township, Range: 18N 6E
OR – Grid or Street No. | Street or Road Name:
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Edgar Hintz
ADDRESS: 8460 W 76th St
POST OFFICE: Milw Wis
ZIP CODE:

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
5										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pnuematic Tank
San.	Storm	C.I.	Other	Sewer	Sewage Sump	C.I.	Other		>25'		Seepage Pit	
				Clearwater Dr.	Clearwater Sump						Seepage Bed	
											Seepage Trench >50	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well	Nonconforming Existing								
		Pump									
		Tank									

Temporary Manure Stack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin	Other (Describe)
					Concrete Floor Only	
					Concrete Floor and Partial Concrete Walls	

5. Well is intended to supply water for: Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	6	2	6	59

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
	A120 – 3.75 ASTM		
2	RTP Threaded & Coupled	Surface	56.
1¼ x 36" 60gn Screen		56	59

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
Clay	Surface	6

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	25
Fine Sand	25	34
Clay	34	42
Clay Loam & Fine Sand	42	50
Medium to Coarse Sand	50	59

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☐ Rotary-hammer & air
☐ Reverse Rotary
☒ Jetting with ☐ Air ☒ Water

Well construction completed on 11-7-77 19

11. MISCELLANEOUS DATA

Yield Test: / Hrs. at 9 GPM
Depth from surface to normal water level 17 Ft.
Depth of water level when pumping 17 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to State laboratory on 8-9-83 19

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: David S. Foster
Foster Enterprises
Licensed Well Driller

Business Name and Complete Mailing Address

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 12-76

17

1. COUNTY: Adams
CHECK (✓) ONE: ☒ Town ☐ Village ☐ City
Name: Preston

LOCATION: ¼ Section: SW | Section: 19 | Township: 18N | Range: 6E
OR – Grid or Street No. | Street Name: 13th Lane
AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Walter Bartels
ADDRESS: 1698 13th Lane
POST OFFICE: Friendship Wis. 53934

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
10										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer	Sewage Sump	C.I.	Other		65		Seepage Pit	
				Clearwater Dr.	Clearwater Sump						Seepage Bed	80
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well	Nonconforming Existing							
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

Well is intended to supply water for: Home

5. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
6	Surface	109			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
6	new Fife 7/5, ASTM A53	Surface	106
6	Johnson screen 25 slot	106	109

GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	50
fine sand & Clay	50	95
Coarse sand	95	109

10. TYPE OF DRILLING MACHINE USED

☐ Cable Tool
☐ Rotary-air w/drilling mud
☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air
☒ Rotary-hammer & air
☐ Reverse Rotary
☐ Jetting with ☐ Air ☐ Water

Well construction completed on 11-3 19 77

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 90 GPM
Depth from surface to normal water level 29 Ft.
Depth of water level when pumping 40 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 9 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to S.L.H. laboratory on 1-9- 19 78

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Marvin Kolpin Registered Well Driller

Complete Mail Address: R#4 Wisconsin Dells Wis, 53965

State of Wisconsin
Department of Natural Resources
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

JUN 16 19[illegible]

WELL CONSTRUCTOR'S REPORT

Form 3300-15 Rev. 12-76

COUNTY: Adams

CHECK (✓) ONE: ☒ Town ☐ Village ☐ City

Name: Preston

LOCATION: ¼ Section: SW | Section: 19 | Township: 18N | Range: 6E

OR – Grid or Street No. | Street Name

AND – If available subdivision name, lot & block No.

3. NAME ☒ OWNER ☐ AGENT AT TIME OF DRILLING CHECK (✓) ONE: George Boland

ADDRESS

POST OFFICE: Madison Wis.

4. Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain		Sanitary Bldg. Sewer		Floor Drain Connected To:		Storm Bldg. Drain		Storm Bldg. Sewer	
	C.I.	Other	C.I.	Other	C.I. Sewer	Other Sewer	C.I.	Other	C.I.	Other
None										

Street Sewer		Other Sewers		Foundation Drain Connected to:		Sewage Sump		Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	
San.	Storm	C.I.	Other	Sewer	Clearwater Dr.	Sewage Sump	Clearwater Sump					
						C.I.	Other					
									None		Seepage Pit	
											Seepage Bed	None
											Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit
		Well	Nonconforming Existing							
		Pump								
		Tank								

Temporary Manure Stack	Watertight Liquid Manure Tank	Solid Manure Storage Structure	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Other (Give Description)

5. Well is intended to supply water for: Mobile Home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
2	Surface	45			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification & Method of Assembly	From (ft.)	To (ft.)
	Youngstown New Steel 3.5 lb Rod ASTM-53 Coupled	Surface	42
1½	Johnson Well Point #25	42	45

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
Sand	Surface	21
Sand Clay	21	30
Sand	30	45

10. TYPE OF DRILLING MACHINE USED

☒ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud
☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary
☒ Jetting with ☐ Air ☒ Water

Well construction completed on June 5 19 78

11. MISCELLANEOUS DATA

Yield Test: 2 Hrs. at 10 GPM

Depth from surface to normal water level 25 Ft.

Depth of water level when pumping 25 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade

Well disinfected upon completion ☒ Yes ☐ No

Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to Madison, Wis laboratory on June 14 19 78

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature: Jim Phillips Registered Well Driller

Complete Mail Address: P. O. Box 52 Madison, Wis

State of Wisconsin
Department of Natural Resources
Private Water Supply
Box 7921
Madison, Wisconsin 53707

NOTE:
White Copy – Division's Copy
Green Copy – Driller's Copy
Yellow Copy – Owner's Copy

WELL CONSTRUCTOR'S REPORT
Form 3300-15 Rev. 2-79

AUG 22 1984

1 COUNTY: Adams | CHECK (✓) ONE: ☒ Town ☐ Village ☐ City | Name: Strongs Prairie

2 LOCATION: ¼ Section or Gov't. Lot: S W | Section: 24 | Township, Range: 18N 5E
OR – Grid or Street No. | Street or Road Name
AND – If available subdivision name, lot & block No.

3. NAME ☐ OWNER ☒ AGENT AT TIME OF DRILLING CHECK (✓) ONE: Dale DeLeTa
ADDRESS: Adams, Wis
POST OFFICE | ZIP CODE

4 Distance in feet from well to nearest: (Record answer in appropriate block)

Building	Sanitary Bldg. Drain C.I.	Sanitary Bldg. Drain Other	Sanitary Bldg. Sewer C.I.	Sanitary Bldg. Sewer Other	Floor Drain Connected To: C.I. Sewer	Floor Drain Connected To: Other Sewer	Storm Bldg. Drain C.I.	Storm Bldg. Drain Other	Storm Bldg. Sewer C.I.	Storm Bldg. Sewer Other
4										

Street Sewer San.	Street Sewer Storm	Other Sewers C.I.	Other Sewers Other	Foundation Drain Connected to: Sewer / Clearwater Dr.	Foundation Drain Connected to: Sewage Sump / Clearwater Sump	Sewage Sump C.I.	Sewage Sump Other	Clearwater Sump	Septic Tank	Holding Tank	Sewage Absorption Unit	Manure Hopper or Retention or Pneumatic Tank
									42		Seepage Pit / Seepage Bed 56 / Seepage Trench	

Privy	Pet Waste Pit	Pit: Nonconforming Existing	Subsurface Pumproom Nonconforming Existing	Barn Gutter	Animal Barn Pen	Animal Yard	Silo With Pit	Glass Lined Storage Facility	Silo w/o Pit	Earthen Silage Storage Trench Or Pit	Earthen Manure Basin
		Well / Pump / Tank									

Temporary Manure Rack or Platform	Watertight Liquid Manure Tank or Basin	Manure Pressure Pipe	Subsurface Gasoline or Oil Tank	Waste Pond or Land Disposal Unit (Specify Type)	Manure Storage Basin: Concrete Floor Only / Concrete Floor and Partial Concrete Walls	Other (Describe)

5. Well is intended to supply water for: Mobile home

6. DRILLHOLE

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
2	Surface	45			

7. CASING, LINER, CURBING AND SCREEN

Dia. (in.)	Material, Weight, Specification Mfg. & Method of Assembly	From (ft.)	To (ft.)
2	Sawhill Newstank ASTM 589 Rated 3.35# Coupled	Surface	42
1½	Johnson well point	42	45

8. GROUT OR OTHER SEALING MATERIAL

Kind	From (ft.)	To (ft.)
	Surface	

9. FORMATIONS

Kind	From (ft.)	To (ft.)
sand	Surface	26
sand gravel	26	45

10. TYPE OF DRILLING MACHINE USED
☒ Cable Tool ☐ Rotary-air w/drilling mud ☐ Rotary-w/drilling mud ☐ Rotary-hammer w/drilling mud & air ☐ Rotary-hammer & air ☐ Reverse Rotary ☒ Jetting with ☐ Air ☒ Water

Well construction completed on: August 9 19 84

11. MISCELLANEOUS DATA
Yield Test: 2 Hrs. at 12 GPM
Depth from surface to normal water level: 15 Ft.
Depth of water level when pumping: 15 Ft. Stabilized ☒ Yes ☐ No

Well is terminated 12 inches ☒ above ☐ below final grade
Well disinfected upon completion ☒ Yes ☐ No
Well sealed watertight upon completion ☒ Yes ☐ No

Water sample sent to: Madison laboratory on: August 19 84

Your opinion concerning other pollution hazards, information concerning difficulties encountered, and data relating to nearby wells, screens, seals, method of finishing the well, amount of cement used in grouting, blasting, etc., should be given on reverse side.

Signature | Business Name and Complete Mailing Address