RS-8303-1F

IL-0041-18

LETTER OF TRANSMITTAL

ELDREDGE ENGINEERING ASSOCIATES, INC.
2625 Butterfield Road
OAK BROOK, ILLINOIS 60521

(312) 654-4790

DEC 0 3 1984

DATE	JOB NO.
11-29-84	051-53, 171-53

ATTENTION: DAN COZZA

RE: WELL LOGS

TO: ECOLOGY & ENVIRONMENT, INC.
223 W. JACKSON BLVD.
CHICAGO, IL 60606

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
1	7-74	4	WELL LOGS - 31ST STREET LANDFILL - (HINSDALE)
1	10-77	4	WELL LOGS - RICHTON PARK LANDFILL - (MATTESON)

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

DAN -
IF YOU HAVE ANY QUESTIONS CONCERNING THESE WELL LOGS, DO NOT HESITATE TO CALL US.

US EPA RECORDS CENTER REGION 5
486837

COPY TO _____

SIGNED: Mike Keil

If enclosures are not as noted, kindly notify us at once.

PRODUCT 240-2 NEBS Inc., Groton, Mass. 01471.

ELDREDGE
ENGINEERING ASSOCIATES, INC.
2625 Butterfield Road
OAK BROOK, ILLINOIS 60521

(312) 654-4790

LETTER OF TRANSMITTAL

DEC 0 3 1984

DATE	JOB NO.
11-29-84	051-53, 171-53

ATTENTION: DAN COZZA

RE: WELL LOGS

TO ECOLOGY & ENVIRONMENT, INC.
223 W. JACKSON BLVD.
CHICAGO, IL 60606

WE ARE SENDING YOU ☒ Attached ☐ Under separate cover via _____ the following items:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ _____

COPIES	DATE	NO.	DESCRIPTION
1	7-74	4	WELL LOGS - 31ST STREET LANDFILL - (HINSDALE)
1	10-77	4	WELL LOGS - RICHTON PARK LANDFILL - (MATTESON)

THESE ARE TRANSMITTED as checked below:

☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☐ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

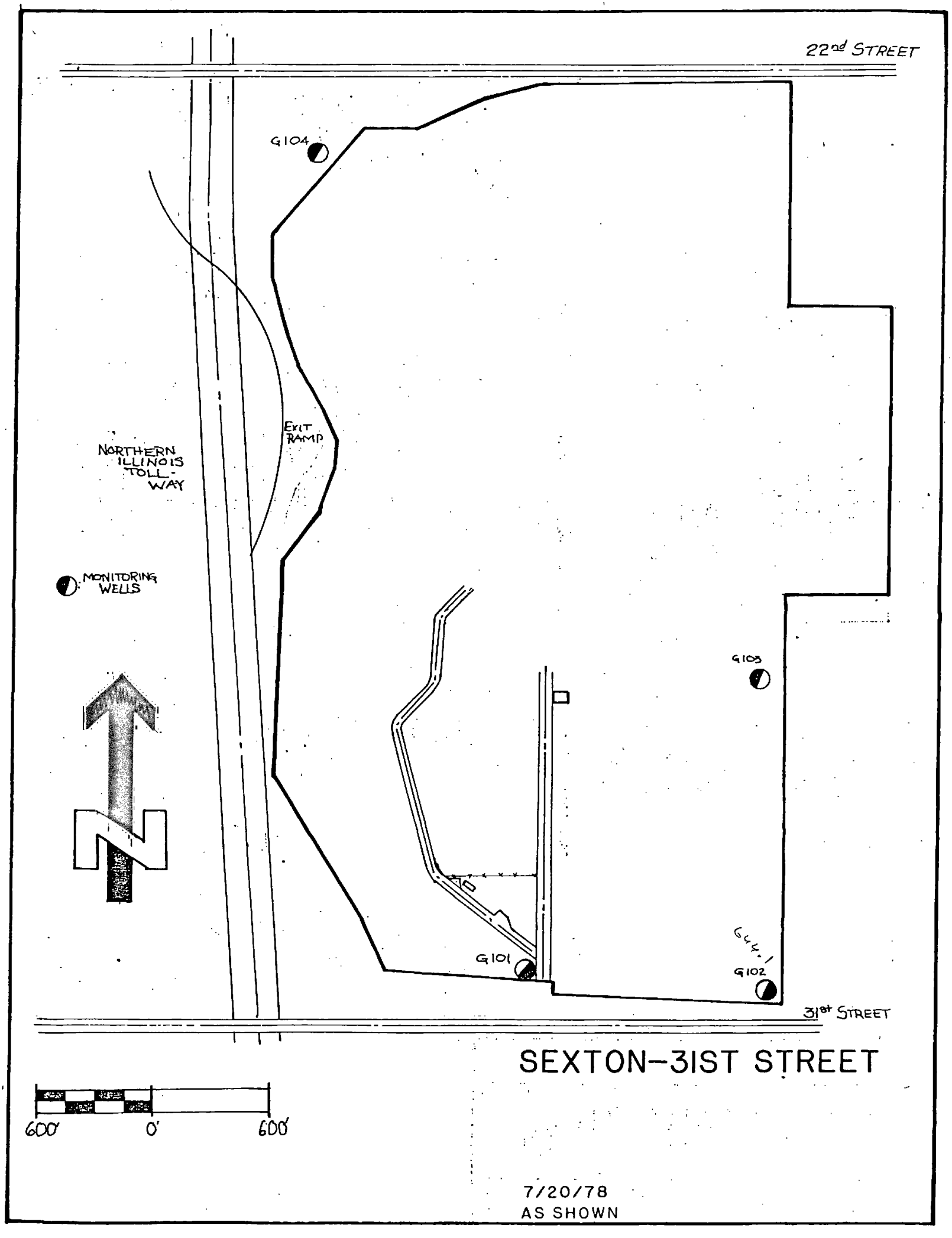
DAN -
IF YOU HAVE ANY QUESTIONS CONCERNING THESE WELL LOGS, DO NOT HESITATE TO CALL US.

COPY TO _____

SIGNED: Mike Keil

If enclosures are not as noted, kindly notify us at once.

PRODUCT 240-2 NEBS Inc., Groton, Mass. 01471.


22nd STREET
G104
EXIT RAMP
NORTHERN ILLINOIS TOLL-WAY
MONITORING WELLS
G103
G101
G102
31st STREET
SEXTON-31ST STREET
600'
0'
600'
7/20/78
AS SHOWN

Walter H. Flood & Co., Inc.
ENGINEERS
4421 HARRISON STREET
HILLSIDE, ILLINOIS 60162
TELEPHONE 312/449-0500
CHICAGO NUMBER 261-6607

ESTABLISHED 1913
WALTER H. FLOOD (1865-1951)
RAYMOND J. FLOOD, P. E.
PAUL E. FLOOD, P. E.

KALAMAZOO OFFICE:
7509 S. WEST NEDGE AVENUE
PORTAGE, MICHIGAN 49081
TELEPHONE: 616/327-7095

September 3, 1974

John Sexton Sand & Gravel Company
900 Jorie Boulevard
OakBrook, Illinois

Re: Job 7405-0198
Observation Wells
Solid Waste Management Facility
31st Street & Wolf Road
OakBrook, Illinois

Attention: Mr. Arthur Daniels

Gentlemen:

Enclosed are logs of the observation wells installed at the above project.

The following is a summary of the well installation data.

Well No.	W1	W2	W3	W4
Ground Surface[1]	667.0	650.0	650.0	666.0
Date of installation	7/5/74	7/3/74	7/3/74	7/5/74
Top of pipe above grade	2.0'	2.1'	3.0'	3.3'
Depth to tip of well	31.0'	8.2'	25.4'	30.6'
Screen length	4.0'	4.0'	4.0'	4.0'
Screen Mesh	# 10	# 10	# 10	# 10
Well Diameter	2.0"I.D.	2.0" I.D.	2.0" I.D.	2.0" I.D.
Type of well pipe	PVC	PVC	PVC	PVC
Top of sand pack from grade	25.0'	4.0'	19.0'	25.0'
Well backfill to grade	50-50[2]	50-50[2]	50-50[2]	50-50[2]
Water level in well (top of pipe) After installation	28.0'	8.0'	15.5'	18.8'

[1] Determined from topographic survey

[2] 50% bentonite - 50% soil

If you have any questions concerning this, please do not hesitate to call us.

Respectfully submitted,

WALTER H. FLOOD AND COMPANY, INC.

Raymond J. Flood
Registered Professional Engineer
Illinois 21775

Boring Logs 4

Location Diagram 1

Boring Log Explanation 1 -3

RJF/ow
Encl:

INSPECTION AND TESTING OF MATERIALS AND STRUCTURES • SPECIFICATIONS & REPORTS • PHYSICAL & CHEMICAL TESTS • RESEARCH & CONSULTATION • CONCRETE CORE CUTTING • FOUNDATION INVESTIGATION • FACILITIES INSPECTED BY CEMENT & CONCRETE REFERENCE LABORATORY

MEMBER: AMERICAN SOCIETY FOR TESTING & MATERIALS • AMERICAN PUBLIC WORKS ASSOCIATION • AMERICAN CONCRETE INSTITUTE • ASSOCIATION OF ASPHALT PAVING TECHNOLOGISTS • CONSULTING ENGINEERS COUNCIL • ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS • NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS • AMERICAN SOCIETY OF CIVIL ENGINEERS • CHICAGO BUILDING CONGRESS

RIM ELEVATION = 668.55

FOR: John Sexton Sand and Gravel Company	SOIL BORING LOG NO. 1 G101
PROJECT: 900 Jorie Boulevard	WALTER H. FLOOD & COMPANY INC. Engineers
LOCATION: OakBrook, Illinois	CHICAGO, ILLINOIS – PORTAGE, MICHIGAN

METHOD OF BORING: HS WO	WATER LEVEL READINGS	DRILLING DATA	BACKFILLING DATA
SPLIT SPOON SIZE: 2" IN.	29.0' W.D.	DATE: 7-3-74	DATE:
WT. OF HAMMER 140# LBS.	27.5' B.C.R.	FOREMAN: DJ	BY:
INCH DROP 30"	25.8' A.C.R.	JOB NO. 7405-0198	METHOD:
SHELBY TUBE SIZE	26.0' @ 24 HRS. A.D.		GROUT:
CASING USED 29'-4" I.D.	HRS. A.D.	VERT. SCALE: 1" = 5'	QUANTITY:

ELEV.	DEPTH	S	T	N	L	R	DD	DESCRIPTION
667.0	0.0							Ground surface
		1	SS	24				Fill, brown and gray clay
663.5	3.5	2	SS	31				Brown to gray clay, trace of small gravel hard
		3	SS	28				
		4	SS	25				
		5	SS	29				
		6	SS	19				
		7	SS	34				
		8	SS	36				
647.0	20.0	9	SS	55/6"				Gray clayey silt, some small to large gravel, boulders hard
		10	SS	60/2"				
638.0	29.0							Dolomite, light gray, very dense
636.0	31.0							End of boring

Qu ● LABORATORY × 1000 O PENETROMETER

2 4 6 8 10

10 20 30 40 50

Wc ▲ NATURAL

LEGEND:

A	AUGER	DEPTH	FEET BELOW GROUND SURFACE	S	SAMPLE NUMBER
ACR	AFTER CASING REMOVAL	FT	FISH TAIL	SS	SPLIT SPOON
AD	AFTER DRILLING	HS	HOLLOW STEM AUGER	ST	SHELBY TUBE
BCR	BEFORE CASING REMOVAL	L	SAMPLE LENGTH	T	TYPE OF SAMPLE
C	CORE	N	PENETRATION, BLOWS PER FOOT	WC	WATER, %
DCI	DRY CAVE IN	QU	UNCONFINED COMPRESSIVE STRENGTH POUNDS PER SQUARE FOOT	WCI	WET CAVE IN
DD	DRY DENSITY, LB PER CU. FT.	R	LENGTH OF SAMPLE RECOVERY	WD	WHILE DRILLING
				WO	WASHOUT

RIM ELEVATION = 652.98

FOR: John Sexton Sand and Gravel Company	SOIL BORING LOG NO. 3 6103
PROJECT: 900 Jorie Boulevard	WALTER H. FLOOD & COMPANY INC. Engineers
LOCATION: OakBrook, Illinois	CHICAGO, ILLINOIS – PORTAGE, MICHIGAN

METHOD OF BORING: HS	WATER LEVEL READINGS	DRILLING DATA	BACKFILLING DATA
SPLIT SPOON SIZE: 2 IN.	15.0' W.D.	DATE: 7-3-74	DATE:
WT. OF HAMMER 140 LBS.	B.C.R.	FOREMAN: BJ	BY:
INCH DROP 30"	A.C.R.	JOB NO. 7405-0198	METHOD:
SHELBY TUBE SIZE	15.4 @ 24 HRS. A.D.		GROUT:
CASING USED 30'-4" I.D.	HRS. A.D.	VERT. SCALE: 1" = 5'	QUANTITY:

ELEV.	DEPTH	S	T	N	L	R	DD	DESCRIPTION
								Ground Surface
650.0	0.0							
649.0	1.0							Dark brown, silt loam.
		1	SS	11				Brown & gray clay, trace of small gravel, very tough to hard
		2	SS	26				
		3	SS	29				
		4	SS	30				
		5	SS	35				
635.0	15.0	6	SS	15				Gray silt, fine to medium sand layers medium dense
631.0	19.0	7	SS	19				Gray clay, trace of small gravel, tough
626.0	24.0	8	SS	24				Gray fine to medium sand, trace of silt, medium dense
620.0	30.0							End of Boring

Qu ● LABORATORY × 1000 O PENETROMETER

2 4 6 8 10

10 20 30 40 50

Wc ▲ NATURAL

ELEV.	DEPTH	S	T	N	L	R	DD	DESCRIPTION

LEGEND:

A	–AUGER	DEPTH	–FEET BELOW GROUND SURFACE	S	–SAMPLE NUMBER
ACR	–AFTER CASING REMOVAL	FT	–FISH TAIL	SS	–SPLIT SPOON
AD	–AFTER DRILLING	HS	–HOLLOW STEM AUGER	ST	–SHELBY TUBE
BCR	–BEFORE CASING REMOVAL	L	–SAMPLE LENGTH	T	–TYPE OF SAMPLE
C	–CORE	N	–PENETRATION, BLOWS PER FOOT	WC	–WATER, %
DCI	–DRY CAVE IN	QU	–UNCONFINED COMPRESSIVE STRENGTH POUNDS PER SQUARE FOOT	WCI	–WET CAVE IN
DD	–DRYDENSITY, LB. PER CU. FT.			WD	–WHILE DRILLING
		R	–LENGTH OF SAMPLE RECOVERED	WO	–WASHOUT

RIM ELEVATION = 652.90

FOR: John Sexton Sand and Gravel Company	SOIL BORING LOG NO. 2 G102
PROJECT: 900 Joric Boulevard	WALTER H. FLOOD & COMPANY INC. Engineers
LOCATION: OakBrook, Illinois	CHICAGO, ILLINOIS – PORTAGE, MICHIGAN

METHOD OF BORING: HS	WATER LEVEL READINGS	DRILLING DATA	BACKFILLING DATA
SPLIT SPOON SIZE: 2 IN.	6.0' W.D.	DATE: 7-3-74	DATE:
WT. OF HAMMER 140 LBS.	7.7' B.C.R.	FOREMAN: B.J.	BY:
INCH DROP 30"	8.0' A.C.R.	JOB NO. 7405-0198	METHOD:
SHELBY TUBE SIZE	7.8' @ 24 HRS. A.D.		GROUT:
CASING USED 9.0' -4" ID	HRS. A.D.	VERT. SCALE 1" = 5'	QUANTITY:

ELEV.	DEPTH	S	T	N	L	R	DD	DESCRIPTION
								Ground surface
650.0	0.0							
649.7	0.3							Black silty clay
		1	SS	14				Brown clay, trace of small gravel, very tough
646.5	3.5							
		2	SS	37				Brown clayey silt, some small to large gravel, fragmented stone dense
645.0	5.0							Dolomite, brownish gray very dense
641.0	9.0							End of boring

Qu ● LABORATORY X 1000 O PENETROMETER

2 4 6 8 10

10 20 30 40 50

Wc ▲ NATURAL

LEGEND:

A	AUGER	DEPTH	FEET BELOW GROUND SURFACE	S	SAMPLE NUMBER
ACR	AFTER CASING REMOVAL	FT	FISH TAIL	SS	SPLIT SPOON
AD	AFTER DRILLING	HS	HOLLOW STEM AUGER	ST	SHELBY TUBE
BCR	BEFORE CASING REMOVAL	L	SAMPLE LENGTH	T	TYPE OF SAMPLE
C	CORE	N	PENETRATION, BLOWS PER FOOT	WC	WATER, %
DCI	DRY CAVE IN	QU	UNCONFINED COMPRESSIVE STRENGTH POUNDS PER SQUARE FOOT	WCI	WET CAVE IN
DD	DRY DENSITY, LB PER CU. FT.			WD	WHILE DRILLING
		R	LENGTH OF SAMPLE RECOVERED	WO	WASHOUT

RIM ELEVATION = 669.21

FOR: John Sexton Sand & Gravel Company	SOIL BORING LOG NO. 4 G104
PROJECT: 900 Jorie Boulevard	WALTER H. FLOOD & COMPANY INC. Engineers
LOCATION: OakBrook, Illinois	CHICAGO, ILLINOIS – PORTAGE, MICHIGAN

METHOD OF BORING: HS	WATER LEVEL READINGS	DRILLING DATA	BACKFILLING DATA
SPLIT SPOON SIZE: 2 IN.	28' W.D.	DATE 7-3-74	DATE:
WT. OF HAMMER 140 LBS.	25' – B.C.R.	FOREMAN: BJ	BY:
INCH DROP 30	A.C.R.	JOB NO. 7405-0198	METHOD:
SHELBY TUBE SIZE	18.8 0 24 HRS. A.D.		GROUT:
CASING USED	HRS. A.D.	VERT. SCALE 1" = 5'	QUANTITY:

ELEV.	DEPTH	S	T	N	L R	DD	DESCRIPTION
							Ground Surface
666.0	0.0						Fill black and brown clay
		1	SS	21			
662.5	3.5						
		2	SS	32			Brown & gray clay, trace of small gravel, hard to tough
		3	SS	18			
		4	SS	27			
		5	SS	22			
		6	SS	12			
		7	SS	17			
641.0	25.0						
		8	SS	37			Gray coarse sand, some silt, small to large gravel. Note: gas in sand at 25 feet
636.0	30.0						Gray fine to coarse sand trace of silt, medium dense
634.5	31.5	9	SS	27			End of Boring

Qu ● LABORATORY × 1000 O PENETROMETER

2 4 6 8 10

10 20 30 40 50

Wc ▲ NATURAL

LEGEND:

A	AUGER	DEPTH	-FEET BELOW GROUND SURFACE	S	-SAMPLE NUMBER
ACR	-AFTER CASING REMOVAL	FT	-FISH TAIL	SS	-SPLIT SPOON
AD	-AFTER DRILLING	HS	-HOLLOW STEM AUGER	ST	-SHELBY TUBE
BCR	BEFORE CASING REMOVAL	L	-SAMPLE LENGTH	T	-TYPE OF SAMPLE
C	CORE	N	-PENETRATION, BLOWS PER FOOT	WC	-WATER, %
DCI	-DRY CAVE IN	QU	-UNCONFINED COMPRESSIVE STRENGTH POUNDS PER SQUARE FOOT	WCI	-WET CAVE IN
DD	-DRY DENSITY LB PER CU. FT.			WD	-WHILE DRILLING
		R	-LENGTH OF SAMPLE RECOVERED	WO	-WASHOUT

RIM ELEVATION = 652.98

FOR: John Sexton Sand and Gravel Company	SOIL BORING LOG NO. 3
PROJECT: 900 Jorie Boulevard	WALTER H. FLOOD & COMPANY INC. Engineers
LOCATION: OakBrook, Illinois	CHICAGO, ILLINOIS – PORTAGE, MICHIGAN

METHOD OF BORING: HS	WATER LEVEL READINGS	DRILLING DATA	BACKFILLING DATA
SPLIT SPOON SIZE: 2 IN.	15.0' W.D.	DATE: 7-3-74	DATE:
WT. OF HAMMER 140 LBS.	B.C.R.	FOREMAN: BJ	BY:
INCH DROP 30"	A.C.R.	JOB NO. 7405-0198	METHOD:
SHELBY TUBE SIZE	15.4 @ 24 HRS. A.D.		GROUT:
CASING USED 30'-4" I.D.	HRS. A.D.	VERT. SCALE: 1" = 5'	QUANTITY:

ELEV.	DEPTH	S	T	N	L	R	DD	DESCRIPTION
								Ground Surface
650.0	0.0							
649.0	1.0							Dark brown, silt loam
		1	SS	11				Brown & gray clay, trace of small gravel, very tough to hard
		2	SS	26				
		3	SS	29				
		4	SS	30				
		5	SS	35				
635.0	15.0	6	SS	15				Gray silt, fine to medium sand layers medium dense
631.0	19.0	7	SS	19				Gray clay, trace of small gravel, tough
626.0	24.0	8	SS	24				Gray fine to medium sand, trace of silt, medium dense
620.0	30.0							End of Boring

Qu ● LABORATORY × 1000 (2, 4, 6, 8, 10) O PENETROMETER

Wc ▲ NATURAL (10, 20, 30, 40, 50)

ELEV.	DEPTH	S	T	N	L	R	DD	DESCRIPTION

LEGEND:

A	AUGER	DEPTH	FEET BELOW GROUND SURFACE	S	SAMPLE NUMBER
ACR	AFTER CASING REMOVAL	FT	FISH TAIL	SS	SPLIT SPOON
AD	AFTER DRILLING	HS	HOLLOW STEM AUGER	ST	SHELBY TUBE
BCR	BEFORE CASING REMOVAL	L	SAMPLE LENGTH	T	TYPE OF SAMPLE
C	CORE	N	PENETRATION, BLOWS PER FOOT	WC	WATER, %
DCI	DRY CAVE IN	QU	UNCONFINED COMPRESSIVE STRENGTH POUNDS PER SQUARE FOOT	WCI	WET CAVE IN
DD	DRY DENSITY, LB. PER CU. FT.			WD	WHILE DRILLING
		R	LENGTH OF SAMPLE RECOVERED	WO	WASHOUT