STS Consultants Ltd.

OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER A-2

SURFACE ELEVATION +570.0 NGVD

Depth (ft)	Elevation (ft)	Sample No.	Sample Type	Sample Recovery	Description of Material
0.0–1.0					Gravelly fine to coarse sand, trace silt, clay and organics - gray - medium dense (GM-SM) With boulders and cobbles.
1.0		1	SS		
2.0		PA			
3.0		2 SS*			
3.0–4.0		2A	SS		Highly weathered soft shale
4.0		PA			
4.0					End of Boring. Borehole backfilled upon completion. Automatic-Diedrich Hammer used for Standard Penetration Tests. SS* = SPT value based on first 6 in.

Unconfined Compressive Strength (Tons/ft²): 1 2 3 4 5
Plastic Limit % — Water Content % — Liquid Limit %
Unit Dry Wt (lb/ft³): 90 100 110 120 130
Standard Penetration Blows/ft: 10 20 30 40 50
Blows: 3; 4/6; 50/6

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

Boring Started	9/13/04	STS Office	Chicago Area - 01
Boring Completed	9/13/04	Entered By	KKB
Sheet No.	1 of 1	Rig/Foreman	Bomb/Lehtinen
Approved By	DSD	STS Job No.	34098

Drawing: LOG 34098.GPJ STS.GDT 10/04

OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER A-3

SURFACE ELEVATION +569.8 NGVD

Depth (ft)	Elevation (ft)	Sample No.	Sample Type	Sample Recovery	Description of Material
					Water
0.0–1.0		1	SS		Gravelly fine to coarse sand, trace silt, clay and organics - gray- very dense (GM-SM)
2.0		PA			Highly weathered shale
3.0–5.0		2	AS		
5.0					End of Boring. Borehole backfilled upon completion. Automatic-Diedrich Hammer used for Standard Penetration Tests.

Unconfined Compressive Strength (Tons/ft²): 1 2 3 4 5
Plastic Limit % — Water Content % — Liquid Limit %
Unit Dry Wt (lb/ft³): 90 100 110 120 130
Standard Penetration Blows/ft: 10 20 30 40 50
Blows: 19/0.5

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

Boring Started	8/9/04	STS Office	Chicago Area - 01
Boring Completed	8/9/04	Entered By	KKB
Sheet No.	1 of 1	Rig/Foreman	Bomb/Lehtinen
Approved By	DSD	STS Job No.	34098

Drawing: LOG 34098.GPJ STS.GDT 10/04

OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER A-4

SURFACE ELEVATION +575.5 NGVD

Depth (ft)	Elevation (ft)	Sample No.	Sample Type	Sample Recovery	Description of Material
					Water
4.5–5.0		1	SS		Sandy organic silt, little gravel, trace shells - black - very soft (ML)
8.5–9.0		2	SS		Gravelly fine to coarse sand, little gravel, trace clay - gray - medium dense (GM-SM)
9.0		3	SS*		Cobbles and boulders below 8.5 ft.
9.1–9.5		RB			Weathered soft shale
9.5					End of Boring. Borehole backfilled upon completion. Safety Hammer used for Standard Penetration Tests.

Unconfined Compressive Strength (Tons/ft²): 1 2 3 4 5
Plastic Limit % — Water Content % — Liquid Limit %
Unit Dry Wt (lb/ft³): 90 100 110 120 130
Standard Penetration Blows/ft: 10 20 30 40 50
Blows: 2; 25; 50/4"

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

* Calibrated Penetrometer

Boring Started	8/30/04	STS Office	Chicago Area - 01
Boring Completed	8/30/04	Entered By	KKB
Sheet No.	1 of 1	Rig/Foreman	D-25/Lehtinen
Approved By	DSD	STS Job No.	34098

Drawing: LOG 34098.GPJ STS.GDT 10/04

OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER A-5

SURFACE ELEVATION +575.6 NGVD

Depth (ft)	Elevation (ft)	Sample No.	Sample Type	Sample Recovery	Description of Material
					Water
5.5–6.5		1	SS		Organic silt, trace gravel, sand and shells - black - very soft (ML)
8.5–9.0		2	SS*		Gravelly fine to coarse sand, little silt, trace clay - gray - dense (GM-SM) With large gravel and cobbles noted.
9.0–10.0		2A	SS		Weathered soft shale
10.0–10.5		RB			
10.5					End of Boring. Borehole backfilled upon completion. Safety Hammer used for Standard Penetration Tests. SS* = SPT value based on first 6 in. WOH = Weight of Hammer

Unconfined Compressive Strength (Tons/ft²): 1 2 3 4 5
Plastic Limit % — Water Content % — Liquid Limit %
Unit Dry Wt (lb/ft³): 90 100 110 120 130
Standard Penetration Blows/ft: 10 20 30 40 50
Blows: WOH; 105.4; 50/6"; 50/6"

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

Boring Started	8/30/04	STS Office	Chicago Area - 01
Boring Completed	8/30/04	Entered By	KKB
Sheet No.	1 of 1	Rig/Foreman	D-25/Lehtinen
Approved By	DSD	STS Job No.	34098

Drawing: LOG 34098.GPJ STS.GDT 10/04

OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER A-6

SURFACE ELEVATION +575.5 NGVD

Depth (ft)	Elevation (ft)	Sample No.	Sample Type	Sample Recovery	Description of Material
					Water
4.5–5.5		1	SS		Organic silt, trace clay and sand - black - very soft (ML)
7.0–9.5		2	SS		Gravelly fine to coarse sand, little silt, trace clay - brownish gray - dense (SM-GM)
8.5–9.5		RB			Boulders and cobbles noted below 8.5 ft.
9.5–10.0		RB			Moderately weathered soft shale
		RB			. . . continued

Unconfined Compressive Strength (Tons/ft²): 1 2 3 4 5
Plastic Limit % — Water Content % — Liquid Limit %
Unit Dry Wt (lb/ft³): 90 100 110 120 130
Standard Penetration Blows/ft: 10 20 30 40 50
Blows: WOH; 91.4; 35/6"

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

Boring Started	8/27/04	STS Office	Chicago Area - 01
Boring Completed	8/27/04	Entered By	KKB
Sheet No.	1 of 2	Rig/Foreman	Joy 12-Barge/Lehtinen
Approved By	DSD	STS Job No.	34098

Drawing: LOG 34098.GPJ STS.GDT 11/04

OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER A-6

SURFACE ELEVATION +575.5 NGVD (Continued)

Depth (ft)	Elevation (ft)	Sample No.	Sample Type	Sample Recovery	Description of Material
					Moderately weathered soft shale
11.0–11.5		RB			
11.5					End of Boring. Borehole backfilled upon completion. Casing used: 10 ft. of 4 in. Safety Hammer used for Standard Penetration Tests. WOH = Weight of Hammer

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

Boring Started	8/27/04	STS Office	Chicago Area - 01
Boring Completed	8/27/04	Entered By	KKB
Sheet No.	2 of 2	Rig/Foreman	Joy 12-Barge/Lehtinen
Approved By	DSD	STS Job No.	34098

Drawing: LOG 34098.GPJ STS.GDT 11/04

OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER A-7

SURFACE ELEVATION +575.5 NGVD

Depth (ft)	Elevation (ft)	Sample No.	Sample Type	Sample Recovery	Description of Material
					Water
5.5–7.5		1	SS		Silty fine to coarse sand, little gravel - brown and black - loose (SM) With occasional organic seams noted.
7.5–9.5		2	SS		Silty fine to coarse sand, little gravel, trace organics - brownish gray - medium dense (SM) With occasional soft clay seams noted.
9.5–10.5		3	SS		Highly weathered shale
					. . . continued

Unconfined Compressive Strength (Tons/ft²): 1 2 3 4 5
Plastic Limit % — Water Content % — Liquid Limit %
Unit Dry Wt (lb/ft³): 90 100 110 120 130
Standard Penetration Blows/ft: 10 20 30 40 50
Blows: WOH; 18/0.5; 4/6"

* Calibrated Penetrometer

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

Boring Started	8/27/04	STS Office	Chicago Area - 01
Boring Completed	8/27/04	Entered By	KKB
Sheet No.	2 of 2	Rig/Foreman	Joy 12-Barge/Lehtinen
Approved By	DSD	STS Job No.	34098

Drawing: LOG 34098.GPJ STS.GDT 11/04

OWNER: IDNR/City of Yorkville
PROJECT NAME: Yorkville Dam
ARCHITECT-ENGINEER: Teng & Assoc.
SITE LOCATION: Kendall County, Illinois
LOG OF BORING NUMBER A-7

SURFACE ELEVATION +575.5 NGVD (Continued)

Depth (ft)	Elevation (ft)	Sample No.	Sample Type	Sample Recovery	Description of Material
		RB			Moderately weathered soft shale
11.0–11.0					End of Boring. Borehole backfilled upon completion. Casing used: 10 ft. of 4 in. Safety Hammer used for Standard Penetration Tests. WOH = Weight of Hammer

* Calibrated Penetrometer

The stratification lines represent the approximate boundary lines between soil types: in situ, the transition may be gradual.

Boring Started	8/27/04	STS Office	Chicago Area - 01
Boring Completed	8/27/04	Entered By	KKB
Sheet No.	2 of 2	Rig/Foreman	Joy 12-Barge/Lehtinen
Approved By	DSD	STS Job No.	34098

Drawing: LOG 34098.GPJ STS.GDT 11/04

LOCATION OF BORINGS ON SHEET B2

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Designed by JPR Checked by TKL
Drawn by JPR Checked by TKL
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