

PROJECT Stearns Road Improvements - Phase I, Kane County
 CLIENT Alfred Benesch & Company, Chicago, Illinois
 BORING B-1 DATE STARTED 4-12-04 DATE COMPLETED 4-12-04 JOB L-59,965
 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE 741.1 WHILE DRILLING Dry
 END OF BORING 586.1 AT END OF BORING Dry
 Sta. 511+99, 12' LT



SAMPLE NO.	TYPE	N	WC	Qu	YDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1	SS	9	18.0	1.75"		0.3	740.9	FILL - Brown clayey Topsoil
2	SS	9	14.4	3.7 B @ 15%		2.0	738.3	FILL - Brown and gray CLAY and CLAY LOAM, trace to little black clay, little gravel, moist
3	SS	7	15.0	3.0"		3.0	736.3	
4	SS	4	13.8	1.8 B @ 10%, 4.5"		4.0	734.3	
5	SS	6	10.2	6.2 B @ 15%		5.0	732.3	
6	SS	5	11.8	3.0 B @ 15%, 4.5"		6.0	730.3	
7	SS	7	4.0			7.0	728.3	
8	SS	15	24.0			8.0	726.3	
9	SS	15	25.0			9.0	724.3	
10	SS	15	25.0			10.0	722.3	
11	SS	10	20.0			11.0	720.3	

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SAMPLE NO.	TYPE	N	WC	Qu	YDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
12	SS	5	25.0			12.0	719.1	FILL - Dense to very dense brown fine to medium SAND, trace gravel, damp A-1-B
13	SS	6	17.3	2.0 B @ 15%, 1.75"		13.0	694.1	FILL - Brown and dark gray CLAY, some streaks of black clay, trace gravel, moist A-6
14	SS	64	21.4	1.2 20"		14.0	692.1	Very dense fractured Dolomite, hard drilling
Auger Refusal at 55.0'								
* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.								
CME 750 ATV Drill Rig (#53) CME Automatic Hammer 3.25" (83 mm) ID HSA B = Bulge Failure at 15% Strain S = Shear Failure								

PROJECT Stearns Road Improvements - Phase I, Kane County
 CLIENT Alfred Benesch & Company, Chicago, Illinois
 BORING B-2 DATE STARTED 4-13-04 DATE COMPLETED 4-13-04 JOB L-59,965
 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE 742.7 WHILE DRILLING 58.0'
 END OF BORING 684.1 AT END OF BORING 45.0'
 Sta. 517+99, 31' RT



SAMPLE NO.	TYPE	N	WC	Qu	YDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1	SS	4	20.7	1.8 B @ 15%, 2.5"		0.3	742.4	FILL - Brown clayey Topsoil
2	SS	5	12.6	2.5"		2.0	740.7	FILL - Black and brown CLAY, some topsoil, moist A-6/A-7-6
3	SS	3	18.3	0.8 B @ 15%, 2.0"		3.6	738.2	FILL - Gray and black SANDY LOAM, some topsoil and gravel, moist A-6(3)
4	SS	3	16.9	2.75"		5.5	737.2	FILL - Brown, gray and black CLAY LOAM, trace gravel, moist A-6
5	SS	10	10.5			6.5	736.2	FILL - Dark gray CLAY, trace wood, moist A-6
6	SS	11	7.6			8.0	734.7	FILL - Black deteriorated Asphalt material, damp A-1
7	SS	11	19.2	1.5"		12.0	730.7	FILL - Brown and gray CLAY LOAM, some pieces of wood, very moist A-6
8	SS	3	4.5			15.0	725.7	FILL - Dark gray CLAY LOAM, trace gravel, moist A-6
9	SS	8	8.0	3.4		17.0	725.7	
10	SS	3	8.1			22.0	720.7	FILL - Brown fine SAND, damp A-6
11	SS	3	15.4	2.1 B @ 15%		25.0	715.7	
12	SS	3	13.7	5.8 B @ 15%		30.0	710.7	
13	SS	4	15.7	2.4 B @ 15%		35.0	705.7	
14	SS	1	15.0	3.3 B @ 15%		40.0	700.7	

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 GROUND SURFACE 742.7 WHILE DRILLING 58.0'
 END OF BORING 684.1 AT END OF BORING 45.0'
 Sta. 517+99, 31' RT



SAMPLE NO.	TYPE	N	WC	Qu	YDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
12	SS	5	16.3	3.8 B @ 15%, 7-11		42.0	717.7	FILL - Brown and gray CLAY, trace gravel, moist A-6
13	SS	12	60.0			47.0	699.7	FILL - Crushed Dolomite Gravel and Cobbles, little sand, trace clay chunks, moist A-1
14	SS	5	8.1	1.8 B @ 15%		52.0	690.7	FILL - Brown CLAY, trace gravel, moist A-6
15	SS	5	18.0	2.5"		58.0	684.7	
Auger Refusal at 55.0'								
* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.								
CME 750 ATV Drill Rig (#53) CME Automatic Hammer 3.25" (83 mm) ID HSA B = Bulge Failure at 15% Strain								

PROJECT Stearns Road Improvements - Phase I, Kane County
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 BORING B-3 DATE STARTED 4-13-04 DATE COMPLETED 4-13-04 JOB L-59,965
 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE 740.3 WHILE DRILLING 49.0'
 END OF BORING 584.3 AT END OF BORING 48.0'
 Sta. 523+99, 18' LT



SAMPLE NO.	TYPE	N	WC	Qu	YDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1	SS	4	17.7	1.8 B @ 15%, 2.2"		0.3	740.0	FILL - Dark brown clayey Topsoil
2	SS	4	10.6	2.5"		2.0	738.3	FILL - Black and brown CLAY, some topsoil, moist A-6
3	SS	4	17.2	1.2 B @ 15%, 1.5"		3.0	736.3	FILL - Black and brown CLAY LOAM and SANDY LOAM, some topsoil, moist to very moist A-6
4	SS	3	10.6	1.25"		4.0	734.3	
5	SS	3	28.1	0.8 B @ 15%		5.0	732.3	
6	SS	2	31.8	0.5 B @ 15%		6.0	730.3	FILL - Black, brown and gray CLAY and CLAY LOAM, some topsoil, moist A-6/A-7-6
7	SS	4	10.0	0.8 B @ 15%, 2.0"		7.0	728.3	FILL - Brownish-gray clayey SILT and SAND, moist A-2-4/A-4
8	SS	7	9.3			8.0	726.3	FILL - Brown silty, fine SAND, trace gravel, damp A-1-B
9	SS	3	15.7	3.1 B @ 15%		9.0	724.3	FILL - Gray CLAY, occasional sand seams, trace gravel, moist A-6
10	SS	7	11.7	0.5 B @ 10%, 1.75"		10.0	722.3	FILL - Brown and gray SANDY LOAM, trace gravel, moist A-2-4
11	SS	3	10.8			11.0	720.3	FILL - Brown silty SAND, trace gravel, moist A-1-B

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 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE 740.3 WHILE DRILLING 49.0'
 END OF BORING 584.3 AT END OF BORING 48.0'
 Sta. 523+99, 18' LT



SAMPLE NO.	TYPE	N	WC	Qu	YDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
12	SS	3	16.0			12.0	703.3	FILL - Brown fine to medium SAND, trace gravel, moist A-1-B
13	SS	3	13.0			13.0	693.3	FILL - Brown silty SAND, trace gravel, trace clay, saturated A-1-B
14	SS	60	12.8	5.8		14.0	683.3	Dense to very dense Cobbles and Boulders, possible fractured Dolomite, hard drilling
Auger Refusal at 56.0'								
* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.								
CME 750 ATV Drill Rig (#53) CME Automatic Hammer 3.25" (83 mm) ID HSA B = Bulge Failure at 15% Strain S = Shear Failure								

PROJECT Stearns Road Improvements - Phase I, Kane County
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 BORING B-4 DATE STARTED 4-14-04 DATE COMPLETED 4-14-04 JOB L-59,965
 ELEVATIONS WATER LEVEL OBSERVATIONS
 GROUND SURFACE 758.7 WHILE DRILLING 33.6'
 END OF BORING 685.7 AT END OF BORING 35.0'
 Sta. 529+99, 29' RT



SAMPLE NO.	TYPE	N	WC	Qu	YDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
1	SS	3	18.8	2.0"		0.3	758.4	FILL - Brown clayey Topsoil
2	SS	3	18.2	1.0"		2.0	756.4	FILL - Brown CLAY LOAM, trace black clay, trace gravel, moist A-6
3	SS	3	18.1	0.8 B @ 15%, 1.0"		3.0	754.4	
4	SS	7	18.1	1.1 B @ 15%, 1.25"		4.0	752.4	
5	SS	3	38.0	0.8 B @ 15%		5.0	750.4	
6	SS	3	29.2	1.0 B @ 15%, 1.25"		6.0	748.4	
7	SS	3	28.8	0.5 B @ 15%, 0.75"		7.0	746.4	
8	SS	3	21.0	0.8 B @ 15%, 0.75"		8.0	744.4	
9	SS	4	29.5	0.4 B @ 15%		9.0	742.4	
10	SS	3	18.2	0.8 B @ 15%		10.0	740.4	
11	SS	3	24.2	0.8 B @ 15%		11.0	738.4	

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 GROUND SURFACE 758.7 WHILE DRILLING 33.6'
 END OF BORING 685.7 AT END OF BORING 35.0'
 Sta. 529+99, 29' RT



SAMPLE NO.	TYPE	N	WC	Qu	YDRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
12	SS	3-13	22.2	3.8 B @ 15%, 1.0"		42.0	717.7	FILL - Dark gray and black CLAY LOAM, some topsoil, very moist A-6
13	SS	3	24.7	0.8 B @ 15%, 2.0"		47.0	712.7	FILL - Dark brown and gray CLAY LOAM, some gravel and pieces of concrete, very moist A-6 and A-1-a
14	SS	3	11.6	1.8 B @ 15%, 3.0"		52.0	707.7	FILL - Black and gray CLAY and CLAY LOAM, some topsoil, moist to very moist A-4/A-6
15	SS	8-10	11.8	1.8 B @ 15%, 3.0"		57.0	702.7	FILL - Brownish-gray CLAY LOAM and SANDY LOAM, trace gravel, moist A-4/A-6
16	SS	4	10.8	1.0 B @ 15%, 1.75"		62.0	697.7	FILL - Brown and gray CLAY LOAM and SANDY LOAM, trace gravel, moist A-4/A-6
17	SS	8	14.3	1.8 B @ 15%, 2.25"		67.0	692.7	Stiff to hard brown and gray CLAY LOAM, occasional sand seams, trace gravel, moist A-6
18	SS	8	11.2			72.0	687.7	Medium dense brown SAND and GRAVEL, trace clay, saturated A-3-a
19	SS	1002				73.0	685.7	Probable Dolomite Rock, hard drilling
Auger Refusal at 74.0'								
* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.								