

Geo Services, Inc.		SOIL BORING LOG		PAGE 1 of 4	
Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60563 (630) 355-2838		DATE 6/20/2012		LOGGED BY DR	
ROUTE FAP 353 (US 30)		DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12		GSI JOB No. 09174	
SECTION 11-Y-A		LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM		COUNTY Cook	
DRILLING METHOD Hollow Stem Auger/Rotary		HAMMER TYPE Diedrich Automatic		STRUCT. NO. ---	
STATION ---		SURFACE WATER ELEV. n/a		DEPTH (ft)	
BORING NO. BS-15		STREAM BED ELEV. n/a		BLOW COUNT (blows)	
STATION 278+78		GROUNDWATER ELEVATION: First Encounter Dry To 10.0'		UNSATURATED MOISTURE (%)	
OFFSET 30.6' Right		UPON COMPLETION n/a		SATURATED MOISTURE (%)	
GROUND SURFACE ELEV. 633.1		AFTER HRS. ---		UCS (tsf)	
SANDY TOPSOIL with Gravel-black (Fill)	632.1	AS	-	14	
Clayey SAND & CINDERS-dark brown-medium dense (Fill)	630.1	B	-	14	104
SILTY CLAY-dark brown & gray-very stiff (A-6)	627.6	C	101		108
SANDY CLAY LOAM-brown & gray-loose (A-4)	625.1	D	-	19	27
SILTY SAND & GRAVEL-brown & gray-loose (A-2)	622.6	E	NP	20	31
SILTY LOAM-gray-loose to medium dense (A-4)	601.1	F	NP	23	23
	596.1	G	NP	23	
	586.1	H	NP	25	17

Geo Services, Inc.		SOIL BORING LOG		PAGE 2 of 4	
Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60563 (630) 355-2838		DATE 6/20/2012		LOGGED BY DR	
ROUTE FAP 353 (US 30)		DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12		GSI JOB No. 09174	
SECTION 11-Y-A		LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM		COUNTY Cook	
DRILLING METHOD Hollow Stem Auger/Rotary		HAMMER TYPE Diedrich Automatic		STRUCT. NO. ---	
STATION ---		SURFACE WATER ELEV. n/a		DEPTH (ft)	
BORING NO. BS-15		STREAM BED ELEV. n/a		BLOW COUNT (blows)	
STATION 278+78		GROUNDWATER ELEVATION: First Encounter Dry To 10.0'		UNSATURATED MOISTURE (%)	
OFFSET 30.6' Right		UPON COMPLETION n/a		SATURATED MOISTURE (%)	
GROUND SURFACE ELEV. 633.1		AFTER HRS. ---		UCS (tsf)	
SAND & GRAVEL-gray-medium dense (A-1)	671.1				
SAND-gray-medium dense (A-3)	605.1				
SANDY LOAM-gray-dense (A-2)	566.1				
SAND-gray-medium dense (A-3)	561.1				
SILT-gray-dense (A-4)	556.1				
SAND & GRAVEL-gray-medium dense (A-1)	511.1				
SILT-gray-dense (A-4)	519.1				
SILTY CLAY LOAM-gray-medium dense to dense (A-4)	526.1				
SAND-gray-medium dense (A-3)	521.1				
SILTY SAND & GRAVEL-gray-very dense (A-2)	519.1				
SILTY CLAY-gray-very stiff (A-6)	519.1				
SAND-gray-medium dense (A-3)	519.1				
SILTY CLAY LOAM-gray-medium dense to dense (A-4)	519.1				

Geo Services, Inc.		SOIL BORING LOG		PAGE 3 of 4	
Geotechnical, Environmental & Civil Engineering 805 Amherst Court, Suite 204 Naperville, Illinois 60563 (630) 355-2838		DATE 6/20/2012		LOGGED BY DR	
ROUTE FAP 353 (US 30)		DESCRIPTION US Route 30 @ EJ&E/CN Railroad, IDOT Job No. D-91-046-12		GSI JOB No. 09174	
SECTION 11-Y-A		LOCATION SEC 20 & 29, T 35 N, R 15 E, 3rd PM		COUNTY Cook	
DRILLING METHOD Hollow Stem Auger/Rotary		HAMMER TYPE Diedrich Automatic		STRUCT. NO. ---	
STATION ---		SURFACE WATER ELEV. n/a		DEPTH (ft)	
BORING NO. BS-15		STREAM BED ELEV. n/a		BLOW COUNT (blows)	
STATION 278+78		GROUNDWATER ELEVATION: First Encounter Dry To 10.0'		UNSATURATED MOISTURE (%)	
OFFSET 30.6' Right		UPON COMPLETION n/a		SATURATED MOISTURE (%)	
GROUND SURFACE ELEV. 633.1		AFTER HRS. ---		UCS (tsf)	
SAND & GRAVEL-gray-medium dense (A-1)	671.1				
SAND-gray-medium dense (A-3)	605.1				
SANDY LOAM-gray-dense (A-2)	566.1				
SAND-gray-medium dense (A-3)	561.1				
SILT-gray-dense (A-4)	556.1				
SAND & GRAVEL-gray-medium dense (A-1)	511.1				
SILT-gray-dense (A-4)	519.1				
SILTY CLAY LOAM-gray-medium dense to dense (A-4)	526.1				
SAND-gray-medium dense (A-3)	521.1				
SILTY SAND & GRAVEL-gray-very dense (A-2)	519.1				
SILTY CLAY-gray-very stiff (A-6)	519.1				
SAND-gray-medium dense (A-3)	519.1				
SILTY CLAY LOAM-gray-medium dense to dense (A-4)	519.1				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%)
NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%)
NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%)
NR-No Recovery