Empire GeoServices, Inc.

Preliminary Summary of Findings of Subsurface Soil Sampling on May 21, 2010

Site Located at 420 South Avenue, Rochester, New York

- Nine soil borings were advanced onsite by SJB Services / Empire GeoServices using a CME-550X ATV-mounted drilling rig using hollow stem augers with continuous split-spoon soil sampling in two-foot intervals beginning at a depth of five feet. Soil Sampling Location Plan is attached.

- Boring locations were based on findings of previous work by others in 2004 and 2010.

- Auger or sample spoon refusal was typically obtained at depths of about 11 to 12 feet, although refusal depths were 16.6 feet and 16.0 feet at locations EGS-3 and EGS-4, respectively. Auger refusal is assumed to indicate top of competent bedrock.

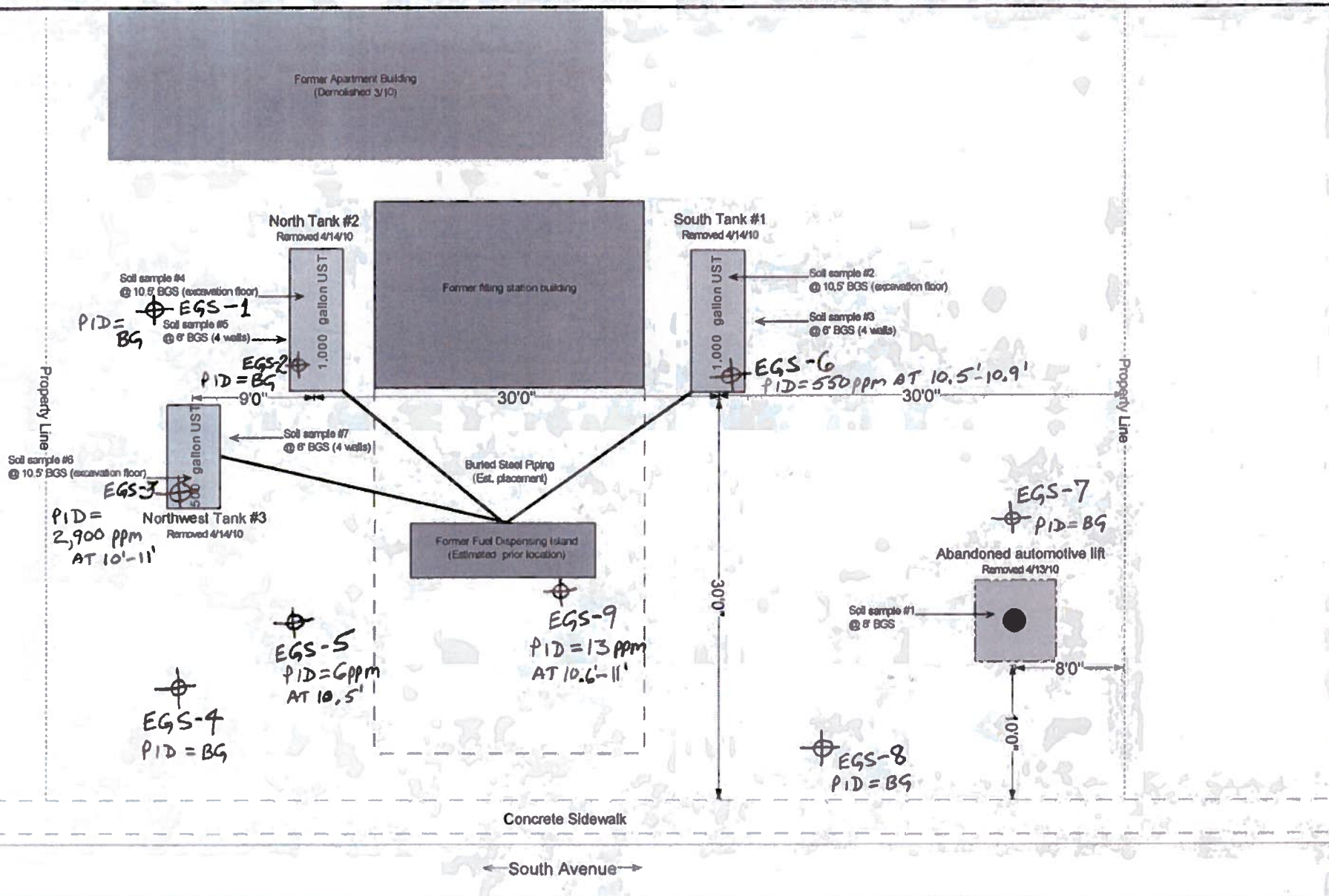
- Soil samples collected from locations EGS-1, EGS-2, EGS-4, EGS-7, and EGS-8 indicated photoionization detector (PID) readings at background (BG) levels and no apparent petroleum staining or odors.

- Soil samples collected from location EGS-3 indicated a maximum PID reading of 2,900 parts per million (ppm) at a depth of 10 to 11 feet and elevated PID readings and petroleum odors from 10 feet to 12 feet. Samples collected from 12 feet to 16.6 feet did not contain evidence of petroleum impact. A composite soil sample was collected from a depth interval of 10 to 12 feet and submitted for laboratory analysis for NYSDEC STARS listed volatile organic compounds (VOCs; method 8260) and NYSDEC STARS listed semi-volatile organic compounds (SVOCs; method 8270).

- A soil sample obtained from a depth of 10.5 to 10.9 feet at location EGS-6 indicated a maximum PID reading of 550 ppm and a petroleum odor. A composite soil sample was collected from this depth interval and submitted for laboratory analysis for NYSDEC STARS listed VOCs (method 8260) and NYSDEC STARS listed SVOCs (method 8270).

- Low PID readings of 6 ppm at a depth of 10.5 feet at location EGS-5 and 13 ppm at a depth of 10.6 to 11 feet at location EGS-9, accompanied by very slight petroleum odors, are considered to be insignificant.

- Soil lab data are expected to be available by Tuesday, June 1.



UST Removal- Site Map

Approximate Scale 1" = 10'

Prepared by: nyetech May 5, 2010

ENVIRONMENTAL SOIL SAMPLING
MAY 21, 2010

Site Name: 420 South Avenue
Rochester, NY 14607

EGS-2 - LOCATION OF SOIL SAMPLING ON 5-21-2010

DATE		SJB SERVICES, INC. SUBSURFACE LOG	HOLE NO. EGS-1
START	5/21/2010		SURF. ELEV
FINISH	5/21/2010		G.W. DEPTH See Notes
SHEET	1 OF 1		

PROJECT: ENVIRONMENTAL SOIL SAMPLING LOCATION: 420 SOUTH AVENUE
PROJ. NO.: RE-10-003 ROCHESTER, NEW YORK

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
							Auger only 0' - 5' - No Split Spoon Sampling	
5	1	11	50/0.2	REF		BG	Red-Brown, f-m SAND, little Silt (moist-wet, FILL)	
							Red-Brown Clayey SILT, little f-m Sand, tr.-little f-c Gravel (moist, ML-CL)	
							Boring Complete with Auger Refusal at 6.0'	No free standing water encounterd at boring completion.
10								PID = Photoionization detector readings in parts per million (ppm).
								BG = Background PID reading.
15								
20								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist

DRILLER: A. KOSKE DRILL RIG TYPE: CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE		SJB SERVICES, INC. SUBSURFACE LOG	HOLE NO. EGS-2
START	5/21/2010		SURF. ELEV
FINISH	5/21/2010		G.W. DEPTH See Notes
SHEET	1 OF 1		

PROJECT: ENVIRONMENTAL SOIL SAMPLING LOCATION: 420 SOUTH AVENUE
PROJ. NO.: RE-10-003 ROCHESTER, NEW YORK

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
							Auger only 0' - 5' - No Split Spoon Sampling	
5								
	1	2	1				Brown f-m SAND, little Silt, tr.gravel (moist, loose, SP-SM) FILL	S-1 Poor Recovery
		1	2		2	BG		
	2	3	4					S-2 Poor Recovery
		2	2		6	BG		
10	3	WOR	2				Red-Brown Silty CLAY, tr.-little f-m Sand (moist, stiff, CL)	WOR = Weight of Rods
		12	22		14	BG	Grey and Red-Brown f-c SAND, some f-m Gravel, tr.-little Silt (wet, SW)	
	4	50/0.4			REF	BG		
							Boring Complete with Auger Refusal at 11.8'	No free standing water encountered at boring completion.
15								
								PID = Photoionization detector readings in parts per million (ppm).
								BG = Background PID reading.
20								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist

DRILLER: A. KOSKE DRILL RIG TYPE: CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE			
START	5/21/2010	**SJB SERVICES, INC.**	HOLE NO. EGS-3
FINISH	5/21/2010	**SUBSURFACE LOG**	SURF. ELEV
SHEET	1 OF 1		G.W. DEPTH See Notes

PROJECT: ENVIRONMENTAL SOIL SAMPLING LOCATION: 420 SOUTH AVENUE
PROJ. NO.: RE-10-003 ROCHESTER, NEW YORK

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
							Auger only 0' - 5' - No Split Spoon Sampling	PID = Photoionization detector readings in parts per million (ppm). BG = Background PID reading.
5								
	1	5	1/12"				Brown f-c SAND, tr.gravel, tr.cinders, tr.silt (moist, FILL)	
			1		1	BG		
	2	WOH/18"					Contains little-some silt	S-2 Poor Recovery
			2		WOH	BG		WOH = Weight of Hammer and Rods
10	3	WOR	5				Dark Grey f-c SAND, some f-c Gravel, tr.-little Silt (wet, firm, SW-SM)	Black Staining and Strong Petroleum odor at 10' - 12'
		12	18		17	2900		
	4	15	20			1100	(compact)	
		23	50/0.4		43	560		
	5	35	49			140	Grey-Brown f-c GRAVEL, little f-c Sand, tr.silt (wet, v.compact, GW)	
15		45	33		94	BG		
	6	18	15					
		18	50/0.1		34	BG		
							Boring Complete with Sample Spoon Refusal at 16.6'	Free standing water recorded at 11.4' at boring completion.
20								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist

DRILLER: A. KOSKE DRILL RIG TYPE: CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE		SJB SERVICES, INC. SUBSURFACE LOG	HOLE NO. EGS-4
START	5/21/2010		SURF. ELEV
FINISH	5/21/2010		G.W. DEPTH See Notes
SHEET	1 OF 1		

PROJECT: ENVIRONMENTAL SOIL SAMPLING LOCATION: 420 SOUTH AVENUE
PROJ. NO.: RE-10-003 ROCHESTER, NEW YORK

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
							Auger only 0' - 5' - No Split Spoon Sampling	PID = Photoionization detector readings in parts per million (ppm). BG = Background PID reading.
5								
	1	4	48				Brown f-m SAND, tr.silt, occasional cobbles (moist, FILL)	
		20	7		68	BG		
	2	8	5				Red-Brown f-c SAND, little f-m Gravel, little Clayey Silt (moist, firm, SW-SM)	
		6	10		11	BG		
10	3	5	7					
		14	19		21	BG	Contains tr.silt (wet, SW)	
	4	18	18					
		18	15		36	BG	(compact)	
	5	12	19				Contains f-m Sand, tr.gravel, little Clayey Silt (wet, SP)	
15		23	27		42	BG		
	6	1	7					
		50/0.0			REF	BG	Boring Complete with Sample Spoon Refusal at 16.0'	No free standing water encountered at boring completion. REF = Sample Spoon Refusal.
20								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist

DRILLER: A. KOSKE DRILL RIG TYPE : CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE		SJB SERVICES, INC. SUBSURFACE LOG	HOLE NO. EGS-5
START	5/21/2010		SURF. ELEV
FINISH	5/21/2010		G.W. DEPTH See Notes
SHEET	1 OF 1		

PROJECT: ENVIRONMENTAL SOIL SAMPLING LOCATION: 420 SOUTH AVENUE
PROJ. NO.: RE-10-003 ROCHESTER, NEW YORK

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
							Auger only 0' - 5' - No Split Spoon Sampling	PID = Photoionization detector readings in parts per million (ppm). BG = Background PID reading.
5								
	1	6	6				Brown f-c SAND, tr.-little Silt, tr.gravel (moist, firm, SP-SM)	
		10	15		16	BG		
	2	12	14					S-2 Poor Recovery
		13	14		27	BG		
10	3	8	9				Contains little f-m Gravel, little Clayey Silt (moist, SW-SM)	
		7	18		16	BG		
	4	28	50/0.2		REF	6	Contains some f-c Gravel, tr.silt (moist-wet, SW)	S-4 has very slight petroleum odor
							Boring Complete with Auger Refusal at 12.0'	No free standing water encountered at boring completion.
15								REF = Sample Spoon Refusal.
20								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist

DRILLER: A. KOSKE DRILL RIG TYPE: CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE		SJB SERVICES, INC. SUBSURFACE LOG	HOLE NO. EGS-6
START	5/21/2010		SURF. ELEV
FINISH	5/21/2010		G.W. DEPTH See Notes
SHEET	1 OF 1		

PROJECT: ENVIRONMENTAL SOIL SAMPLING LOCATION: 420 SOUTH AVENUE
PROJ. NO.: RE-10-003 ROCHESTER, NEW YORK

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
							Auger only 0' - 5' - No Split Spoon Sampling	Surface is approx. 1.5' below surrounding elevation in UST excavation area. PID = Photoionization detector readings in parts per million (ppm). BG = Background PID reading.
5								
	1	WOH/1'					Brown f-c SAND, some f-c Gravel, little Silt (moist, FILL)	S-1 Poor Recovery
		1/1'			1	BG		
	2	1	1				Contains some Clayey Silt	
		6	5		7	BG		
10	3	16	17				Brown f-c SAND, little f-m Gravel, tr.-little Silt (wet, v.compact, SW-SM)	S-3 Petroleum Odor at 10.5' - 10.9' with PID = 550
		49	50/0.4		66	550		
							Boring Complete with Auger Refusal at 10.9'	No free standing water encountered at boring completion.
15								
20								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist

DRILLER: A. KOSKE DRILL RIG TYPE: CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE		SJB SERVICES, INC. SUBSURFACE LOG	HOLE NO. EGS-7
START	5/21/2010		SURF. ELEV
FINISH	5/21/2010		G.W. DEPTH See Notes
SHEET	1 OF 1		

PROJECT: ENVIRONMENTAL SOIL SAMPLING LOCATION: 420 SOUTH AVENUE
PROJ. NO.: RE-10-003 ROCHESTER, NEW YORK

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
								Few feet east of hydr. lift excavation.
							Auger only 0' - 5' - No Split Spoon Sampling	
								PID = Photoionization detector readings in parts per million (ppm).
5								BG = Background PID reading.
	1	9	10				Brown f-m SAND, tr.silt (moist, FILL)	
		14	11		24	BG	Red-Brown f-c SAND, tr.-little Silt, tr.gravel (moist, firm, SP-SM)	S-1 Poor Recovery
	2	10	10					
		11	10		21	BG	Contains little f-c Gravel, little Silt (SW-SM)	
10	3	2	9				Contains occaional silty Clay seams	Silty, Clay seam at 9.2' - 9.6'
		27	50/0.1		36	BG	Contains some f-m Gravel (wet)	
							Boring Complete with Auger Refusal at 11.2'	No free standing water encountered at boring completion.
15								
20								

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist

DRILLER: A. KOSKE DRILL RIG TYPE: CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE			
START	5/21/2010	**SJB SERVICES, INC.**	HOLE NO. EGS-8
FINISH	5/21/2010	**SUBSURFACE LOG**	SURF. ELEV
SHEET	1 OF 1		G.W. DEPTH See Notes

PROJECT: ENVIRONMENTAL SOIL SAMPLING LOCATION: 420 SOUTH AVENUE
PROJ. NO.: RE-10-003 ROCHESTER, NEW YORK

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
							Auger only 0' - 5' - No Split Spoon Sampling	PID = Photoionization detector readings in parts per million (ppm). BG = Background PID reading.
5								
	1	8	6				Tan-Brown f-m SAND, tr.silt (moist, FILL)	
		6	11		12	BG	(moist-wet)	
	2	9	23				Red-Brown f-c SAND, little Clayey Silt, tr.gravel (moist, compact, SP-SM)	
		17	17		40	BG		
10	3	9	8					
		15	15		23	BG	Contains little f-c Gravel (wet, firm, SW-SM)	
	4	16	15				Becomes Brown Contains tr.-little f-m Gravel	
		15	13		30	BG	(compact)	
	5	50	60					
15		50/0.1			REF	BG	Boring Complete with Sample Spoon Refusal at 14.1'	Free standing water recorded at 10.8' at boring completion.
20								REF = Sample Spoon Refusal

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist

DRILLER: A. KOSKE DRILL RIG TYPE: CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

DATE		SJB SERVICES, INC. SUBSURFACE LOG	HOLE NO. EGS-9
START	5/21/2010		SURF. ELEV
FINISH	5/21/2010		G.W. DEPTH See Notes
SHEET	1 OF 1		

PROJECT: ENVIRONMENTAL SOIL SAMPLING LOCATION: 420 SOUTH AVENUE
PROJ. NO.: RE-10-003 ROCHESTER, NEW YORK

DEPTH FT.	SMPL NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	N	PID	SOIL OR ROCK CLASSIFICATION	NOTES
							Auger only 0' - 5' - No Split Spoon Sampling	PID = Photoionization detector readings in parts per million (ppm).
5								BG = Background PID reading.
	1	8	50/0.1		REF	BG	Brown f-m SAND, tr.gravel, tr.silt (moist, FILL)	
	2	9	5				Red-Brown f-c SAND, little Clayey Silt, tr.little f-m gravel (moist-wet, firm, SW-SM)	
		5	6		10	BG		
10	3	9	15					
		31	100/0.5		46	13		very slight petroleum odor 10.6' - 11.0'
							Boring Complete with Auger Refusal at 11.4'	No free standing water encountered at boring completion.
15								
20								REF = Sample Spoon Refusal

N = NO. BLOWS TO DRIVE 2-INCH SPOON 12-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW CLASSIFIED BY: Geologist

DRILLER: A. KOSKE DRILL RIG TYPE: CME-550X

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS