



# APPENDIX A CONFIRMATORY BOREHOLE INVESTIGATION BORING LOGS

NYSDEC OHMS Document No. 201469232-00007

JOB NO. 083-89101 PROJECT CWM/RMU-2 FOOTPRINT INVESTIGATION/NY 11.0' BORING NO. 15R DEPTH HOLE \_\_\_ SHEET 1 of 1 DEPTH SOIL DRILL 11.0' GA INSP. AJN DRILLING METHOD DIRECT PUSH DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING .SURFACE EL.<u>N/A</u> NO. DIST. N/A US. N/A TEMP. 55°F DRILL RIG BOBCAT MT52 DRILLER P. ORSI .DATUM\_SITE DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A STARTED\_0900/11-03-08 DROP N/A DROP N/A TIME WL. N/A \_HRS. DELAYED\_N/A\_WT. CASING HAMMER\_\_\_N/A\_ .COMPLETED <u>0940/11-03-08</u>

SAMPLE TYPES	ABE	BREVIATIONS	SOIL	DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M BR BROWN MIC C COARSE MOT CA CASING NP CL CLAY OR CLY CLAYEY ORC FRAG FRAGMENTS PH FRAG FRAGMENTS PH LYD LAYEED RES LU LITLE RX	MEDIUM S. MICACEOUS S. MOTTLEO S. NON-PLASTIC S. ORANGE	AT SATURATED ) SAND SILT Y SILTY M SOME R TRACE WATER LEVEL H WEIGHT OF HAMMER	"TRACE" - 0-5% "LITLE" - 5-12% "SOME" - 12-30% "AND" - 30-50%  CONSISTENCY LS LOOSE S SOFT CP COMPACT FM FRM DN DENSE S STIFF V VERY H HARD

W.S.	WASH SAMPLE LYD	LAYERED LITTLE	RES RX	RE	ŠIDUAL CK	•	WR Y	WEIGHT O	FRODS ON DENSE ST STIFF V VERY H HARD
ELEV.	DECORIDATION	BLOWS/	İ			SAMPLES		DEDTI	GAMBLE DESCRIPTION AND DODING MOTEO
DEPTH	DESCRIPTION	FT.		NO.	TYPE	REC/ATTEMPT	PID (ppm)	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
	FILL 0.0-0.5'						0.0	_	SA-1 0-4.0 Ft. Loose, brown-gray fine SAND and GRAVEL, some silt, moist, to approx. 0.5 ft. bgs., then firm, dark brown SILTY CLAY,little to some coarse gravel, trace fine sand, moist. (GM-CL)
2		NA		1	DO	3.0 4.0	0.0	_	
Ē 4	UPPER CLAY						0.0		
4	TILL		-				0.0	_	SA-2 4.0-8.0 Ft. As above, then very soft, brown SILTY CLAY, little fine to coarse gravel, trace fine sand, saturated. (CL)
Ē 6		NA		2	DO	4.0 4.0	0.0	_	
						4.0	0.0	_	
8			-				0.0		
			-				0.0	_	SA-3 8.0-11.0 Ft. As above to approx. 8.5 ft. bgs., then firm to stiff, brown-red SILTY CLAY to CLAYEY SILT, little fine to coarse gravel, trace fine sand, moist. (CL)
10		NA		3	DO	N/A	0.0	_	
							0.0		No indication of contamination detected.
E	END OF BORING	3							0945 - Collect soil sample 8.0-9.0 ft. bgs. for VOCs.
- 12	11.0' bgs.		=					-	No groundwater samples collected.
F I			=						NOTE: Circuits Direct Duck delling graded descript
FΙ			] [					_	NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined
ΕI			] =					_	in the field by physical (hand) observation.
ΕI			=						
E I			] =					_	
ΕI			]						
F I			=					-	
ΕI			1 =						
F I			=					-	
ΕI			] =						
FΙ			] =					_	
Εl			] =					_	
ΕI			]						
<u> </u>			_					_	
ΕI			] =						
F			=					-	
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Ė I			=					-	
Ē									
			=						
E			=						

NYSDEC OHMS Document No. 201469232-00007

JOB NO. 083-89101 PROJECT CWM/RMU-2 FOOTPRINT INVESTIGATION/NY DEPTH HOLE \_\_\_\_\_16.0' BORING NO. 64R SHEET 1 of 1 DEPTH SOIL DRILL 16.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING .SURFACE EL.<u>N/A</u> NO. DIST. N/A US. N/A TEMP. 40°F/WINDY DRILL RIG BOBCAT MT52 DRILLER P. ORSI .DATUM\_\_SITE STARTED<u>0820/10-28-08</u> DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A TIME WL. N/A \_DROP\_N/A \_HRS. DELAYED<u>N/A</u> WT. CASING HAMMER\_\_ COMPLETED <u>0915/10-28-08</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK COKE S.T. SLOTTED TUBE T.P. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTTLED CA CASINIG NP NON-PLASTIC CL CLAYY ORG ORANGE CLY CLAYY ORG ORGANIC FRAG FRAGMENTS PH PRESSURE—HYDRAULIC GL CLYFEED RES RESIDUAL LYTEED RES RESIDUAL LYTTLE RX ROCK	"TRACE"   0-5%

W.S.	WASH SAMPLÉ LYD LI	LAYERED LITTLE	RES RX	RO	SIDUAL		WR Y	WEIGHT O	F RODS DN DENSE ST STIFF V VERY H HARD
ELEV.	DESCRIPTION	BLOWS/				SAMPLES	PID*	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
EPTH	FILL 0.0-1.0'	FT.		NO.	TYPE	REC/ATTEMPT	(ppm)		SA-1 0.0-4.0 Ft. Asphalt and coarse gravel to approx. 1.0 ft. bgs., then stiff, gray-brown SILTY CLAY, some coarse
2		NA		1	DO	2.6 4.0	4.0	-	gravel, moist, to 3.0 ft. bgs., then stiff, brown to gray brown, SILTY CLAY, little tan brown silt, some fine to coarse gravel, moist. (CL)
6	UPPER CLAY	NA		2	DO	4.0 4.0	5.2	-	SA-2 4.0-8.0 Ft. As above, soft to firm, occassional gray silt lenses, moist to very moist, to approx. 6.0 ft. bgs., then brown to red-brown, stiff SILTY CLAY, moist. (CL)
10	TILL	NA		3	DO	4.0 4.0	0.0	-	SA-3 8.0-12.0 Ft. Firm, red-brown SILTY CLAY, little coarse gravel, occassional rock fragments, moist to very moist. (CL)
12 14		NA		4	DO	4.0 4.0	0.0	-	SA-4 12.0-15.4 Ft. Soft, red-brown SILTY CLAY to CLAYEY SILT, with increasing silt content towards bottom, wet to saturated, to approx. 15.4 ft. bgs., (CL to ML), then becoming compact, red-brown SILT, saturated. (ML)
	END OF BORING 16.0' bgs.								Water at approx. 9.8 ft. bgs. at end of drilling.  0915 - Collect soil sample 8.0-10.0 ft. bgs. for VOCs.  No groundwater samples collected.  *PID readings may have been affected by ambiant climate conditions during drilling activities.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

JOB NO. 083-89101 PROJECT CWM/RMU-2 FOOTPRINT INVESTIGATION/NY 14.0' BORING NO. 83R DEPTH HOLE \_\_\_ SHEET 1 of 1 DEPTH SOIL DRILL 14.0' GA INSP. AJN DRILLING METHOD DIRECT PUSH DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING .SURFACE EL.<u>N/A</u> NO. DIST. N/A US. N/A TEMP. N/A DRILL RIG BOBCAT MT52 DRILLER P.
DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A DRILLER P. ORSI DATUM SITE STARTED 0920/10-31-08 TIME WL. N/A \_DROP\_N/A HRS. DELAYED<u>N/A</u>WT. CASING HAMMER\_ COMPLETED <u>0955/10-31-08</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL	SA

W.S.	WASH SAMPLE LYD LA	YERED TLE	RES RX	RE:	ŠIDUAL CK		WR Y	WEIGHT C YELLOW	F RODS DN DENSE ST STIFF V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.		NO.	TYPE	SAMPLES REC/ATTEMPT	PID	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
-	FILL 0.0-0.8'	NA			DO		0.0 0.0	_	SA-1 0-4.0 ft. Compact, brown-gray SAND and GRAVEL, trace clay, slightly moist to approx. 0.8' bgs, then stiff, brown CLAYEY SILT, little fine to coarse gravel, trace fine to medium sand, some organic matter, slightly moist. (GP to ML)
- 2 - - - - - - - 4	UPPER CLAY	INA		•	DO	3.0 4.0	0.0		
6	TILL	NA		2	. DO	4.0 4.0	0.0		SA-2 4.0-8.0 ft. Stiff, brown-red CLAYEY SILT to SILTY CLAY, little fine gravel, trace fine to medium sand, slightly moist. (ML to CL)
- - - - - 8			-				0.0	<u>-</u>	
10		NA		3	DO	3.0 3.0	0.0	-	SA-3 8.0-11.0 Ft. As above, CLAYEY SILT, to approx. 10.0 ft. bgs., then soft, brown SILTY CLAY, little fine sand, trace fine gravel, moist. (ML to CL)
- 12 -	GLACIOLACUSTRINE CLAY	NA		4	DO	3.0 3.0	0.0 0.0 0.0	-	SA-4 11.0-14.0 ft. Soft, brown SILTY CLAY, little fine gravel to coarse sand, trace coarse gravel, moist. (CL)
- 14	END OF BORING 14.0' bgs.							- - - -	No indication of contamination detected.  0955 - Collect soil sample for VOCs.  No groundwater samples collected.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

JOB NO. 083-89101 PROJECT CWM/RMU-2 FOOTPRINT INVESTIGATION/NY 8.0' BORING NO. 89R DEPTH HOLE \_\_ SHEET 1 of 1 DEPTH SOIL DRILL 8.0' GA INSP. AJN DRILLING METHOD DIRECT PUSH DEPTH ROCK CORE N/A WEATHER CLEAR DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING .SURFACE EL.<u>N/A</u> 
 NO. DIST.
 N/A
 US.
 N/A
 TEMP.
 55°F
 DRILL RIG
 BOBCAT MT52
 DRILLER
 P.

 DEPTH
 WL.
 N/A
 HRS.
 PROD.
 N/A
 WT.
 SAMPLER HAMMER
 N/A
 DROP
 N/A
 DRILLER P. ORSI DATUM SITE STARTED 1015/10-31-08 TIME WL. N/A \_ DROP <u>N/A</u> \_HRS. DELAYED\_N/A\_WT. CASING HAMMER\_\_\_N/A\_\_ COMPLETED 1030/10-31-08

SAMPLE TYPES		ABBREVIATIONS		SOIL	DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BR BROWN C COARSE CA CASING CL CLAY CLY CLAYEY F FINE FRAG FRAGMENTS GL GRAVEL LYD LAYERED	M MEDIUM MIC MICACEOUS MOT MOTTED NP NON-PLASTIC OG GANGE ORG ORGANIC HP PRESSURE—HYDRAULIC PM PRESSURE—MANUAL RE REDIUAL RX ROCK	SAT SD SI SIY SM TR WL WH	SAMPLE SATURATED SAND SILT SILTS SUME TRACE WEIGHT OF HAMMER WEIGHT OF RODS YELLOW	"TRACE" - 0-5% "LITLE" - 5-12% "SOME" - 12-30% "AND" - 30-50%  CONSISTENCY  LS LOWPACT S SOFT CP COMPACT FM FIRM DN DENSE ST STIFF V VERY H HARD

W.S.	WASH SAMPLÉ LYD LI	LAYERED LITTLE	RES RX	RES	SIDUAL		WR Y	WEIGHT C YELLOW	F RODS DN DENSE ST STIFF V VERY H HARD
ELEV.	DECODIDATION	BLOWS/	ļ			SAMPLES		DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
DEPTH	DESCRIPTION	FT.		NO.	TYPE	REC/ATTEMPT	PID (ppm)	DEPTH	
	FILL 0.0-0.6'						0.0	-	SA-1 0.0-0.4 ft. Soft, black organic clay to approx. 0.6' bgs, then soft to stiff, red-brown CLAYEY SILT to SILTY CLAY, little fine to coarse gravel, trace fine to medium sand, moist. (ML to CL)
2		NA		1	DO	<u>4.0</u> 4.0	0.0	-	
E 4	UPPER CLAY						0.0		
	TILL						0.0	_	SA-2 4.0-8.0 ft. As above. (ML-CL)
6		NA		2	DO	4.0 4.0	0.0		
				_	DO	4.0	0.0		
8			=				0.0		No indication of contamination detected.
	END OF BORING 8.0' bgs.								1035 - Collect soil sample for VOCs.  No groundwater samples collected.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

DEPTH HOLE 16.0' JOB NO. 083-89101 PROJECT CWM/RMU-2 FOOTPRINT INVESTIGATION/NY BORING NO. 99R

DEPTH SOIL DRILL 16.0' GA INSP. AJN DRILLING METHOD DIRECT PUSH SHEET 1 of 1

DEPTH ROCK CORE N/A WEATHER CLEAR DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. N/A

NO. DIST. N/A US. N/A TEMP. 55'F DRILL RIG BOBCAT MT52 DRILLER P. ORSI DATUM SITE

DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A STARTED 1105/10-31-08

TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A COMPLETED 1155/10-31-08

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL	SA

	WAST SAME LE	TTLE	RX	RO	UN .		Ÿ``	YELLOW	V VERY H HARD
ELEV. EPTH	DESCRIPTION	BLOWS/ FT.		NO.	TYPE	SAMPLES REC/ATTEMPT	PID (ppm)	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
	<u>FILL 0.0-0.2'/</u>		=				0.0		SA-1 0.0-4.0 ft. Thin layer of gravelly topsoil, then very stiff to firm, brown to dark brown CLAYEY SILT to SILTY
	UPPER CLAY	NA			D0	4.0	0.0		CLAY, little coarse gravel, some fine sand, slightly moist to moist. (ML-CL)
2	TILL	INA		1	DO	4.0 4.0	0.0		
							0.0		
4			=				0.0		SA-2 4.0-8.0 ft. Dense, red-brown to brown silty fine SAND, trace clay, moist. (SM)
_		l NIA	=			4.0	0.0		
6		NA	-	2	DO	4.0 4.0	0.0		
8	UPPER SILT						0.0		
٥	TILL						0.0		SA-3 8.0-12.0 ft. Compact to dense, brown silty fine SAND, trace clay, very moist to slightly moist. (SM)
.		NIA.				3.0 4.0	0.0		
10		NA		3	DO		0.0		
12					Ш		0.0		
'2							0.0		SA-4 12.0-16.0 ft. Compact, brown sandy SILT, some clay, trace fine gravel, wet to saturated. (ML)
14		NA			D.O.	1.5	0.0		
				4	DO	<u>1.5</u> 4.0	0.0		
16			-				0.0		
	END OF BORING 16.0' bgs.								No indication of contamination detected.  1150 - Collect soil sample for VOCs.
	10.0 bg0.								No groundwater samples collected.
			-					_	NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.
								_	
								-	
			-						

NYSDEC OHMS Document No. 201469232-00007

DEPTH HOLE 16.0' JOB NO. 083-89101 PROJECT CWM/RMU-2 FOOTPRINT INVESTIGATION/NY BORING NO. 108R

DEPTH SOIL DRILL 16.0' GA INSP. AJN DRILLING METHOD DIRECT PUSH SHEET 1 of 1

DEPTH ROCK CORE N/A WEATHER SUNNY DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. N/A

NO. DIST. N/A US. N/A TEMP. 56'F DRILL RIG BOBCAT MT52 DRILLER P. ORSI DATUM SITE

DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A STARTED 1000/11-03-08

TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A COMPLETED 1020/11-03-08

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK COKE S.T. SLOTTED TUBE T.P. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTTLED CA CASINIG NP NON-PLASTIC CL CLAYY ORG ORANGE CLY CLAYY ORG ORGANIC FRAG FRAGMENTS PH PRESSURE—HYDRAULIC GL CLYFEED RES RESIDUAL LYTEED RES RESIDUAL LYTTLE RX ROCK	"TRACE"   0-5%

W.s.	WASH SAMPLE LYD	LAYERED LITTLE	RES RX	RE:	ŠIDUAL CK	•	WR Y	WEIGHT C YELLOW	OF RODS DENSE ST STIFF V VERY H HARD
ELEV.	DESCRIPTION	BLOWS/				SAMPLES	PID	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
DEPTH	FILL 0.0-0.2'/	FT.	-	NO.	TYPE	REC/ATTEMPT	(ppm)		SA-1 0.0-4.0 ft. Thin layer of gravelly topsoil, then dense,
	<u> </u>						0.0	_	brown SILTY CLAY, little fine to coarse gravel, trace fine sand, moist. (ML)
2 4 6		NA	-	1	DO	4.0 4.0	0.0	-	
- - - - 4			-				0.0	_	
							0.0	_	SA-2 4.0-8.0 ft. Dense, brown SILTY CLAY, little coarse gravel, little fine sand, moist. (ML)
- 6		  NA		2	DO	4.0 4.0	0.0	_	
	UPPER CLAY TILL			_	DO	4.0	0.0	_	
- - - 8	1122						0.0		
. °					DO	4.0 4.0	0.0	_	SA-3 8.0-12.0 ft. Dense, brown SILTY CLAY to CLAYEY  SILT and fine SAND, trace fine gravel, moist, to approx. 9.5 ft. bgs., (ML to SW), then soft, brown
- - - 10		NA		3			0.0	_	SILTY CLAY, some fine sand, trace fine to coarse gravel, moist. (CL)
- -			=				0.0	_	
- - - 12			=				0.0		
		_				3.0 4.0	0.0	_	SA-4 12.0-16.0 ft. As above to approx. 12.7 ft. bgs., then firm to very soft, brown SILTY CLAY, some fine sand, trace fine gravel, moist. (CL)
- 12 - 14 - 16	GLACIOLACUSTRINI	E NA	=	4	DO		0.0	-	, , ,
	CLAY			-			0.0		
- - - 16							0.0		
- 10	END OF BORING								No indication of contamination detected.
-	16.0' bgs.								1020 - Collect soil sample for VOCs.  No groundwater samples collected.
- - -								_	NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined
- - -								_	in the field by physical (hand) observation.
								-	
-								_	
								_	
								_	
		•	-	•					•

# APPENDIX B INVESTIGATION RADIATION SCREENING (PROVIDED BY OTHERS)

		- STEART PRYCE (1)
	NYSDEC OHMS Document No. 201469232-000	- ENSOL - ZEBRA/GOLDER GEOSI
10/28/08	INSTRUMENTATION:	Ludlum model -2221
made/ 2221	•	W/44-10 proBE
1 MIN BRED	- 4/19cpm	SN# 218587
	CHECK - 7746 CPM	eal due: \$14/09
	, i , i Ge,	Ludlum model - 2 wf 44 260-HP PROBE
		5N# 40811
GEB-PROBES:		BK6D-45cpm 5/6/09 Curoff-90c
#64 0 BK	6D@ LUCHTION - 4361 CPM	13NOV-45cpm Curoff- 90:
	COUNT RANGE FOR ALL CO	ORFS-7 4211-1149.
0800		Cpm
	BK6D C LOCATION - 3668	CPTA
# 43 (2) (43-Ez)		
2-EAST	COUNT RANGE- 336	2-4857 CPM
0940		
43 (43-E1)	BKODE LOCATION -	3602 cpm
1-EAST	COUNT RANGE - 318	7 - 5290 CPM
1100		
43 (1)	BKGD C LOCATION - 3	884 cpm
(43-34)	COUNT RANGE - 30	156 - 4916 - DA
2-SOUTH	· - · · · · · · · · · · · · · · · ·	7700 0014
1300	BKGD e LOCATION	-4058 cm
43 (43-42)		
•	COUNTRANGE - 3	174-5440cpm
1-34-WEST		
1530		
0	BKED C LOCATO	ON 3745 cpm
43 (43-W3)	COUNT RANGE	
2-WEST	35	54-5117 CPM
	Model-2	_
¥	All COUNTS BELOW	CUTOFF OF GOGAM
	ON All CORES	
	<del>-</del> .	$C_1 \setminus D$ .

10/29/08 (2) INSTRUMENTATION - Lidlum m-2221 Ludlom m-2 w/44-10 probe W/HP-260pROBE SW# 218587 5N# 40811 cae due: 8/9/09 cal due: 5/6/09 1 MIN BKLD - 4047cAM/ BK6D - 45 cpm # 1 MIN SOUNCE - 7624cpm CUTUFF- GOLPM BKGD CLOCATIONS 3866 CAM LOCATION-43 O 3-WEST (43-W4) COUNT RANGE 3237-5086 CPM 0800 BK6D @ LOCATION 3689 COM 43 (1) COUNT RANGE - 3184 - 4846 CPM 4-WEST (43-W5) 1015 BKGD e COCAT- 3783 CPM 43 COUNT PAWGE - 3485 - 5371 CPM 5-WEST (43-W6) 11000 BKED @ COCATION - 3555 CPM 4 43 COUNT RANGE - 3297 - 4705 COM 6-WEST (43-W7) 1300 BKGDe LOCATION - 3859 CPM 0 43 COUNT RANGE - 3312 - 4508 CPM (43-W8) W 1400 BK6D @ LOXATION - 3663 CAM (6) 43 COUNTRANGE-3583-4644 CAM (43-W1) 1500

Model -2 All COUNTS BELOW CUTOFF OF 90 CDM ON All COKES.

S. Rege 1620

INSTRUMENTATION -> Ludlum, M-22-21 W/44-10 probe Ludlum model-2 w/HP260 probe SN# 218587 5N# 40811 cal due: 8/9/09 cal dee: 5/6/09 BK60-> 45cpm 1 MIN BK6D -> 3893 CDM CUTOFF - 90 UM Source check 7 7581 cpm BKBD @ LOCATION - 4251 CPM 0820 m-2221 #43-1-N RMNGE > 3419 - 5386 CPM (43-N1) m-2 ALL COUNTS BELOW CUTOFF OF GOCPM 13K6D @ LOCATION - 3867 CPM (2) RANGE -> 3137-4689 CAM 0430 # 43-5 Below COTOFF - 90 CPM (43-51) BK6D @ LOCATION - 4216 CFM (3) m-2221-KANGE - 3910-5279 CPM 1070 # 43-5° (43- NZ) m2 All COUNTS BELOW CUTOFF OF 90 cpm BKOD @ LOCKATION - 3246 CAM 1310 m-2221-RANGE - 3155 - 5428 cpm #61 RES AMPLE (61R) M-Z ALL COUNTS BELOW CUTOFF OF 90 CPM BKGD @ Hole LOCATION - 3766 cpm 1430 M-2221-RANGE - 3181-4257 #61-W (61-51) M-2 - ALL COUNTS BELOW CUTOUF OF 90 cpm

INSTRUMENTATION

LUDLUM - MODEL ZZZI

W/44-10 probe

SN# 218587

cul due: 8/9/09

BK6D - 5137 cpm

Source COUNT- 8071 CPM

Ludlum - MODEL -2 WITH HP-ZEO PROTE SN# 40811 Oul de: 5/6/09 BK6D-45 CPM

CUTOKE - 90 CPM

0900 D #83 BKGD @ LOCATION - 4587 CPM

M-2221 -

COUNT RANGE - 3785-5447 CPM

M-2 - BELOW CUTOFF OF GU CAM

0-121

#89

M-2221 BK6D & LOCATTON 8685 CP14
COUNT RANGE - 6855 - 9045 CPM

0-101

1015

M-2 - ALL COUNTS BELOW CUTOFF OF GO COM

#99 (3) BKGD @ LOC-4367 CPM M-2221 COUNT RANGE - 3871- 5285 CPM

M-Z - ALL COUNTS BELOW CUTOKE 90 EPM

0-16'

#61 D

BKGDC LOCATION-3:722 CPM

M-2221-BOUNT RANGE - 3400 - 4655 CPM

1300

(61-52)

M-2 ALL COUNTS BELOW CUTOKE OF 90 cpm

(5)

BK6D @ LOCATION - 3874 CAM

M-2221-

IEG /

COUNT RANGE - 3466 - 5109 cjam

1340

M-Z ALL COUNTS BEZON CUTOKA GO CAM

(61-53)

6+7

INSTRUMENTATION=

LUDLUM M-2221 W/44-10 probe 5N# 218587 cal die: 8/9/08 BKCD: 4694 CPM

SOURCE CK: 7726 CPM

LUDLUM M-I W/H.P 260 PROBE SN# 40811 cal due: 5/6/09 BK60 - 45 CPM CUTOFF - SOOPM

#15

BKGD @ LOCATION: 4962 cpm COUNT RANGE: 3761-5513 CPM

: model #2 - All COUNTS BELOW CUTOFF 90 CPM

#108

BKGD @ LUCATION: 8862 cpm RANBE : 5440 - 7184 cpm

M-2 DIL COUNTS BELOW CUTONF OF 90 CPM

BKGD @ HULE LOCATION - 4244 CPM . (3) #61-W-1

COUNT RANGE: 3947 -6008 cpm

1030

M-Z ALL COUNTS BEZOW 90 CPM COTOFF

BKGD C LOCATION - 4324 CPM (4) COUNT RANGE - 3864 - 4906 CPM #61 N-1

M-2 - ALL COUNTS BELOW 90 CPM CUTOFF 1145

BKGD @ LOCATION - 4355 CPM COUNT RANGE - 3666 - 4797 cpm

#61 N-2

M-2- CUT OKF BELOW 90 CPM 1220 BKGD @ LOCATION - 4451 cpm

(6) #G1 COUNT Range - 3716 - 5295 CPM

F-1

# APPENDIX C PHASE I WESTERN BOUNDARY INVESTIGATION BORING LOGS

NYSDEC OHMS Document No. 201469232-00007

JOB NO. 083-89111 PROJECT CWM/RMU-2 FOOTPRINT RELOCATION/NY BORING NO. RMU2-W1 12.0' DEPTH HOLE \_\_ SHEET 1 of 1 DEPTH SOIL DRILL 12.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. 316.12 NO. DIST. N/A US. N/A TEMP. 35°F/WINDY DRILL RIG BOBCAT MT52 DRILLER P. ORSI .DATUM\_SITE DEPTH WL. N/A DROP N/A \_\_\_HRS. PROD.\_\_N/A\_\_WT. SAMPLER HAMMER\_\_N/A\_\_\_ STARTED 1024/2-9-09 TIME WL. N/A DROP N/A HRS. DELAYED<u>N/A</u>WT. CASING HAMMER\_ COMPLETED <u>1050/2-9-09</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL	SA

W.S	. WASH SAMPLE LYD L	AYERED ITTLE	RES RX	RE	SIDUAL CK		WR Y	WEIGHT C	OF RODS ST STIFF V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.			I	SAMPLES	PID*	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
	FILL 0.0-0.2'	NA		1	DO	4.0 4.0	0.0 0.0 0.0	- -	SA-1 0.0-4.0 Ft. Thin layer of gravelly topsoil, then firm, brown SILTY CLAY to CLAYEY SILT, some to little coarse gravel, trace fine gravel, moist to very moist.  (CL-ML)
E 4	UPPER CLAY TILL						0.0	_	SA-2 4.0-8.0 Ft. As above to approx. 6.1 ft. bgs., some silt
6	IILL	NA		2	DO	4.0 4.0	0.0 0.0 0.0	- -	content, little to trace coarse gravel, very moist.  (CL-ML), then firm, gray-brown SILTY CLAY to CLAY, occasional coarse gravel, slightly plastic, moist to very moist. (CL)
10	— — — — — — GLACIOLACUSTRINE	NA		3	DO	4.0 4.0	0.0 0.0 0.0 0.0	- - -	SA-3 8.0-12.0 Ft. As above, some silt content, occasional coarse gravel, very moist, to approx. 9.5 ft. bgs., then firm to soft, gray-brown to brown SILTY CLAY, some silt, little fine gravel, very moist (CL), becoming gray, with increasing softness from approx. 10.2 ft. bgs., wet to very moist. (CL)  Glaciolacustrine clay (GC) beginning at approx. 10.2 ft. bgs.
2 4 6 8 10 12 12 12 10 12 12 10 10 12 12 10 10 10 10 10 10 10 10 10 10 10 10 10	END OF BORING 12.0' bgs.							- - - - -	1053 - Collect soil sample 8.0-10.0 ft. bgs. for VOCs. No groundwater sample collected; borehole dry.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

JOB NO. 083-89111 PROJECT CWM/RMU-2 FOOTPRINT RELOCATION/NY 16.0' BORING NO. RMU2-W2 DEPTH HOLE \_\_\_ SHEET 1 of 1 DEPTH SOIL DRILL 16.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH DEPTH ROCK CORE N/A WEATHER P.SUNNY DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. 316.9 NO. DIST. N/A US. N/A TEMP. 25°F DRILL RIG BOBCAT MT52 DRILLER P.
DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A DRILLER P. ORSI DATUM SITE STARTED 1100/2-9-09 TIME WL. N/A \_DROP\_N/A HRS. DELAYED<u>N/A</u>WT. CASING HAMMER\_ COMPLETED <u>1130/2-9-09</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTHED CA CASING NP NON-PLASTIC CL CLAY OG ORANGE CLY CLAYEY ORG ORGANIC F FINE PH PRESSURE—HYDRAULIC F FRAGMENTS PM PRESSURE—MANUAL GL GRAVEL RES RESIDUAL LI LITTLE	"TRACE" - 0 - 5%

W.S.	WASH SAMPLE LYD	LAYERED LITTLE	RES RX	RE:	SIDUAL CK		WR Y	WEIGHT C	OF RODS DN DENSE ST STIFF V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.		NO.	TYPE	SAMPLES REC/ATTEMPT	PID	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
2	FILL 0.0-0.2'  UPPER CLAY  TILL	NA			DO	4.0 4.0	0.0 0.0 0.0	- -	SA-1 0.0-2.0 Ft. Thin layer of gravelly topsoil, then firm, brown SILTY CLAY to CLAYEY SILT, trace fine gravel, some silt content, plant roots near top, very moist to wet. (CL-ML)  2.0-4.0 Ft. As above, very moist. (CL-ML)
	IILL		-				0.0		SA-2 4.0-6.0 Ft. Firm, brown-gray to tan-brown CLAYEY
9		NA		2	DO	3.2 4.0	0.0	<u>-</u>	SILT, to approx. 4.5 ft, with thin zone of decomposed woody material from 4.3-4.4 ft., then dense, tan-brown SILTY SAND and SILT, some clay content, occasional coarse gravel, little fine gravel, very moist. (SM-ML)
,	UPPER SILT TILL		-				0.0	-	6.0-8.0 Ft. As above, to approx. 7.6 ft. bgs., then firm, brown CLAYEY SILT, little fine gravel, increasing clay content towards bottom, very moist to moist. (SM-ML)
4 6 8 10		NA		3	DO	4.0 4.0	0.0		SA-3 8.0-10.0 Ft. As above, very moist. (SM-ML)  10.0-12.0 Ft. As above to approx. 10.9 ft. bgs., very moist, then firm to soft, brown-gray SILTY CLAY, little fine gravel, trace fine sand, very moist. (CL)
12	GLACIOLACUSTRII	NE -	-				0.0	_	Glaciolacustrine day (GC) beginning at approx. 10.9 ft. bgs.  SA-4 12.0-14.0 Ft. Soft, brown SILTY CLAY to CLAY, trace fine gravel, occasional thin coarse sand lense, slightly
14	CLAT	NA	1111111111111	4	DO	4.0 4.0	0.0 0.0 0.0	-	plastic, very moist. (CL)  14.0-16.0 Ft. As above to approx. 14.8 ft., then very soft, gray-brown CLAY, very plastic, slightly wet. (CL)
16	END OF BORING 16.0' bgs.	G						- - - -	1130 - Collect soil sample 9.0-11.0 ft. bgs. for VOCs.  No groundwater sample collected; borehole dry.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

JOB NO. 083-89111 PROJECT CWM/RMU-2 FOOTPRINT RELOCATION/NY 12.0' BORING NO. RMU2-W3 DEPTH HOLE \_\_\_ SHEET 1 of 1 DEPTH SOIL DRILL 12.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH DEPTH ROCK CORE N/A WEATHER P.SUNNY DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. 316.54 NO. DIST. N/A US. N/A TEMP. 32°F DRILL RIG BOBCAT MT52 DRILLER P.
DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A DRILLER P. ORSI DATUM SITE STARTED 1325/2-9-09 TIME WL. N/A \_DROP\_N/A \_HRS. DELAYED<u>N/A</u>WT. CASING HAMMER\_ COMPLETED <u>1350/2-9-09</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTHED CA CASING NP NON-PLASTIC CL CLAY OG ORANGE CLY CLAYEY ORG ORGANIC F FINE PH PRESSURE—HYDRAULIC F FRAGMENTS PM PRESSURE—MANUAL GL GRAVEL RES RESIDUAL LI LITTLE	"TRACE" - 0 - 5%

W.S.	WASH SAMPLE LYD LA	YERED TLE	RES RX	RE	SIDUAL CK		WR Y	WEIGHT O	F RODS DN DENSE ST STIFF V VERY H HARD
ELEV.	DESCRIPTION	BLOWS/ FT.			I	SAMPLES	PID	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
DEPTH	FILL 0.0-0.2'		=	NO.	TYPE	REC/ATTEMPT	(ppm) 0.0		SA-1 0.0-4.0 Ft. Thin layer of gravelly topsoil, then firm to stiff, brown SILTY CLAY to CLAYEY SILT, trace fine
		NIA				4.0	0.0	_	gravel, occasional reddish-brown silt, increasing clay content towards bottom, moist to very moist. (CL-ML)
2		NA	-	1	DO	4.0 4.0	0.0	-	
Ē 4	UPPER CLAY						0.0	Ī	
2 2 4 6 8 10	TILL						0.0		SA-2 4.0-8.0 Ft. Firm to stiff, brown SILTY CLAY, little to some fine gravel, little fine sand, moist to very moist, to approx. 6.0 ft. bgs. (CL), then firm, brown SILTY CLAY,
6		NA	-	2	DO	4.0 4.0	0.0	-	trace coarse gravel, trace fine sand, very moist. (CL)
						4.0	0.0	_	
8			<u> </u>					_	SA-3 8.0-12.0 Ft. As above, some silt content, occasional
		1					0.0	_	coarse gravel, very moist, to approx. 9.5 ft. bgs., then firm to soft, gray-brown to brown SILTY CLAY, some silt, little fine gravel, very moist (CL), becoming soft,
10	GLACIOLACUSTRINE	NA		3	DO	4.0 4.0	0.0	-	gray-brown SILTY CLAY to CLAY, little fine gravel, occasional silt seams, very moist, from approx. 8.8 ft.
	CLAY						0.0	_	bgs. (CL) Glaciolacustrine clay ( <i>GC</i> ) beginning at approx. 8.8 ft. bgs.
12	END OF BORING		=					_	
	12.0' bgs.							-	1345 - Collect soil sample 6.0-8.0 ft. bgs. for VOCs.  No groundwater sample collected; surface water (ice
								-	meltwater) drained from ground surface into borehole during drilling.
-								_	NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.
E									
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NYSDEC OHMS Document No. 201469232-00007	
	BORING NO. RMU2-W4
DEPTH SOIL DRILL 16.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH	_SHEET1 of 1
DEPTH ROCK CORE N/A WEATHER P.SUNNY DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING	_SURFACE_EL317.16
	DATUM SITE
DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A	_STARTED_1355/2-9-09
TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A	_COMPLETED <u>1425/2-9-09</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTTLED CA CASING NP NON-PLASTIC CL CLAY OG GRANGE CLY CLAYEY ORG ORGANIC F FRAGMENTS PH PRESSURE-HYDRAULIC FRAGMENTS PH PRESSURE-MANUAL GL GRAYEL RES RESIDUAL LI LITTLE RX ROCK	SA

W.S.	WASH SAMPLE LYD LA	YERED TLE	RES RX	RO	SIDUAL CK	<u>-</u> ,	WR Y	WEIGHT O	F RODS ON DENSE ST STIFF V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.		NO.	TYPE	SAMPLES REC/ATTEMPT	PID (ppm)	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
- 2 - 4 - 6 - 8 - 10 - 12 - 14	FILL 0.0-0.2'	NA		1	DO	4.0 4.0	0.0 0.0 0.0 0.0	- -	SA-1 0.0-4.0 Ft. Thin layer of gravelly topsoil, then firm to stiff, brown to reddish-brown CLAYEY SILT, little fine gravel, occasional coarse gravel, trace to little fine sand, occasional plant roots, moist. (CL-ML)
- 6	UPPER CLAY	NA		2	DO	4.0 4.0	0.0 0.0 0.0	-	SA-2 4.0-8.0 Ft. As above, firm, little fine gravel, trace fine sand, some blackish, ash-like staining from 5.0-6.0 ft. bgs., no staining, increasing clay content towards bottom, moist. (CL-ML)
- 10	TILL	NA		3	DO	4.0 4.0	0.0 0.0 0.0 0.0	-	SA-3 8.0-12.0 Ft. As above, no staining, moist. (CL-ML)
- 12 - 14 - 16	GLACIOLACUSTRINE	NA		4	DO	4.0 4.0	0.0 0.0 0.0 0.0		SA-4 12.0-16.0 Ft. As above to approx. 12.4 ft., moist, then firm to soft, brown SILTY CLAY, trace fine gravel, occasional coarse gravel, slightly plastic, slightly plastic, becoming CLAY from approx. 14.2 ft. bgs., moist. (CL)  Glaciolacustrine clay (GC) beginning at approx. 12.4 ft. bgs.
-	END OF BORING 16.0' bgs.							- - - -	1410 - Collect soil sample 5.0-6.0 ft. bgs. for VOCs. 2/10/09- Collect groundwater sample for VOCs.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

JOB NO. 083-89111 PROJECT CWM/RMU-2 FOOTPRINT RELOCATION/NY 12.0' BORING NO. RMU2-W5 DEPTH HOLE \_\_\_ SHEET 1 of 1 DEPTH SOIL DRILL 12.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH DEPTH ROCK CORE N/A WEATHER P.SUNNY DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. 317.84 NO. DIST. N/A US. N/A TEMP. 35°F DRILL RIG BOBCAT MT52 DRILLER P.
DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A DRILLER P. ORSI DATUM SITE STARTED 1435/2-9-09 TIME WL. N/A \_DROP\_N/A \_HRS. DELAYED<u>N/A</u>WT. CASING HAMMER\_ COMPLETED <u>1505/2-9-09</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTHED CA CASING NP NON-PLASTIC CL CLAY OG ORANGE CLY CLAYEY ORG ORGANIC F FINE PH PRESSURE—HYDRAULIC F FRAGMENTS PM PRESSURE—MANUAL GL GRAVEL RES RESIDUAL LI LITTLE	"TRACE" - 0 - 5%

W.S.	WASH SAMPLE LYD	LAYERED LITTLE	RES RX	RE:	SIDUAL CK		WR Y	WEIGHT O	F RODS DN DENSE ST STIFF V VERY H HARD
ELEV.	DESCRIPTION	BLOWS/	1			SAMPLES	PID	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
DEPTH		FT.	_	NO.	TYPE	REC/ATTEMPT	(ppm)		SA-1 0.0-4.0 Ft. Thin layer of gravelly topsoil, then firm,
	FILL 0.0-0.2'						0.0	-	brown CLAYEY SILT to SILTY CLAY, little fine gravel, trace to little fine sand, moist. (ML-CL)
2		NA		1	DO	4.0 4.0	0.0	_	
Ē ,	UPPER CLAY		=				0.0		
- 4 	TILL		-				0.0		SA-2 4.0-8.0 Ft. As above to approx. 4.4 ft. bgs., then firm, brown CLAYEY SILT, little to some, brown, fine to medium sand, with some dark gray-black, ash-like
Ē 6		NA	]	2	DO	4.0	0.0	_	staining from approx. 7.2-7.6 ft. bgs., moist to very moist. (ML)
Ē				_	DO	4.0 4.0	0.0		
Ē			=				0.0	-	
8		NA		3	DO	4.0 4.0	0.0	-	SA-3 8.0-12.0 Ft. Dense, brown CLAYEY SILT, very moist, to approx. 9.2 ft. bgs., then firm, brown SILTY CLAY, occasional coarse gravel, very moist (ML to CL), becoming soft, gray-brown SILTY CLAY from approx.  11.1 ft. bgs., occasional coarse gravel, trace fine
E				J		4.0	0.0		gravel, slightly plastic, moist to very moist. (CL)
Ē	GLACIOLACUSTRIN CLAY	ΙĒ					0.0	_	Glaciolacustrine clay ( <i>GC</i> ) beginning at approx. 11.1 ft. bgs.
	END OF BORING 12.0' bgs.							-	bgs.  1500 - Collect soil sample 6.0-8.0 ft. bgs. for VOCs.  No groundwater sample collected; borehole dry.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.
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NYSDEC OHMS Document No. 201469232-00007	
	BORING NO. RMU2-W6
	_SHEET <u>1 of 1</u>
DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING	_SURFACE EL. 317.9
NO. DIST. N/A US. N/A TEMP. 41'F DRILL RIG BOBCAT MT52 DRILLER P. ORSI	_DATUMSITE
DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A	_STARTED_0830/2-10-09
TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A	_COMPLETED <u>0850/2-10-09</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTTLED CA CASING NP NON-PLASTIC CL CLAY OG GRANGE CLY CLAYEY ORG ORGANIC F FRAGMENTS PH PRESSURE-HYDRAULIC FRAGMENTS PH PRESSURE-MANUAL GL GRAYEL RES RESIDUAL LI LITTLE RX ROCK	SA

W.S.	WASH SAMPLE LYD	AYERED LITTLE	RES RX	RE:	SIDUAL CK		WR Y	WEIGHT O	FRODS ON DENSE ST STIFF V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.	1			SAMPLES	PID	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
	FILL 0.0-0.2'	NA		1	DO	3.1 4.0	0.0 0.0 0.0 0.0	- -	SA-1 0.0-4.0 Ft. Thin layer of gravelly topsoil, then firm, brown to tan-brown, SILTY CLAY to CLAYEY SILT, some coarse gravel, trace to little fine gravel, occasional plant roots, trace fine sand, moist to very moist. (CL-ML)
4	TILL	NA		2	DO	4.0 4.0	0.0 0.0 0.1 0.0	- -	SA-2 4.0-8.0 Ft. Firm to stiff, brown to grayish brown SILTY CLAY, occasional coarse gravel, little fine gravel, trace fine sand, some tan-brown silt near top, moist to very moist, with increasing moisture towards bottom. (CL)
10	GLACIOLACUSTRINE	NA		3	DO	4.0 4.0	0.0 0.0 0.0 0.0	- -	SA-3 8.0-10.0 Ft. As above to approx. 8.4 ft. bgs., then soft, brown to gray-brown SILTY CLAY, little fine gravel, little silt content, very moist, to approx. 10.2 ft. bgs. (CL), becoming very soft, gray-brown SILTY CLAY to CLAY, trace to little fine gravel, plastic, very moist. (CL)  Glaciolacustrine clay (GC) beginning at approx. 10.2 ft. bgs.
12	END OF BORING 12.0' bgs.							-	0905 - Collect soil sample 8.0-9.0 ft. bgs. for VOCs. 1620 - Collect groundwater sample for VOCs.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

JOB NO. 083-89111 PROJECT CWM/RMU-2 FOOTPRINT RELOCATION/NY DEPTH HOLE \_\_\_\_\_12.0' BORING NO. RMU2-W7 SHEET 1 of 1 DEPTH SOIL DRILL 12.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. 317.47 NO. DIST. N/A US. N/A TEMP. 42°F DRILL RIG BOBCAT MT52 DRILLER P. ORSI .DATUM\_SITE DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A STARTED 0915/2-10-09 TIME WL. N/A DROP N/A HRS. DELAYED<u>N/A</u>WT. CASING HAMMER<u>N/A</u> .COMPLETED <u>0945/2-10-09</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK COKE S.T. SLOTTED TUBE T.P. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTTLED CA CASINIG NP NON-PLASTIC CL CLAYY ORG ORANGE CLY CLAYY ORG ORGANIC FRAG FRAGMENTS PH PRESSURE—HYDRAULIC GL CLYFEED RES RESIDUAL LYTEED RES RESIDUAL LYTTLE RX ROCK	"TRACE"   0-5%

W.S.	WASH SAMPLE LYD LY	YERED ITLE	RES RX	RE:	SIDUAL CK	•	WR Y	WEIGHT C	F RODS DN DENSE ST STIFF V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.		NO.	TYPE	SAMPLES REC/ATTEMPT	PID	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
	FILL 0.0-1.4'						0.0 0.0	_	SA-1 0.0-4.0 Ft. Dense, gray SILT and coarse GRAVEL fill, very moist to wet, to approx. 1.4 ft. bgs. (GM), then firm, brown CLAYEY SILT, little fine gravel, little fine sand, with zone of loose, tan-brown fine sand from approx. 2.9-3.1 ft. bgs., moist. (ML)
2		NA	1	1	DO	4.0 4.0	0.0	-	
6 0	UPPER CLAY TILL	NA		2	DO	<u>4.0</u> 4.0	0.0 0.0 0.1 0.0	- - -	SA-2 4.0-8.0 Ft. Firm to stiff, brown to gray brown SILTY CLAY, trace fine gravel, occasional very thin silt seams, very moist (CL), to approx. 6.2 ft. bgs., then compact, brown SILT, some clay content, slightly wet, to approx. 7.3 ft. bgs. (ML), then firm, brown SILTY CLAY, trace fine gravel, increasing softness from approx. 7.8 ft. bgs., slightly plastic, slightly wet. (CL)
10	GLACIOLACUSTRINE CLAY	NA		3	DO	3.5 4.0	0.0 0.0 0.0		SA-3 8.0-12.0 Ft. Soft to very soft, gray to gray-brown CLAY, trace fine gravel, very plastic, slightly wet. (CL)  Glaciolacustrine clay (GC) beginning at approx. 7.8 ft. bgs.
· · · · · · · · · · · · · · · · · · ·	END OF BORING 12.0' bgs.							-	0930 - Collect soil sample 5.0-6.0 ft. bgs. for VOCs.  0955 - Collect groundwater sample for VOCs.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

DEPTH HOLE 12.0' JOB NO. 083-89111 PROJECT CWM/RMU-2 FOOTPRINT RELOCATION/NY BORING NO. RMU2-W8

DEPTH SOIL DRILL 12.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH SHEET 1 of 1

DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. 317.74

NO. DIST. N/A US. N/A TEMP. 43°F DRILL RIG BOBCAT MT52 DRILLER P. ORSI DATUM SITE

DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A STARTED 1000/2-10-09

TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A COMPLETED 1025/2-10-09

SAMPLE TYPES	ABBRE	EVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, OPEN T.P. THIN-WALLED, ISTON W.S. WASH SAMPLE	BR BROWN MIC C C COARSE MOT CA CASING NP CL CLAY OG CL CA'YE OF C C CA'YE OF C C C C C C C C C C C C C C C C C C	MICACECOUS	TRACE

W.s.	WASH SAMPLE LYD LA	YERED TLE	RES RX	RES	ŠIDUAL CK		WR Y	WEIGHT C YELLOW	F RODS DN DENSE ST STIFF V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.		NO.	TYPE	SAMPLES REC/ATTEMPT	PID (ppm)	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
2	FILL 0.0-1.0'  UPPER CLAY TILL	NA		1	DO	2.4 4.0	0.0 0.0 0.0 0.0	-	SA-1 0.0-4.0 Ft. Dense, coarse GRAVEL and SILT fill, wet, to approx. 1.0 ft. bgs. (GM), then firm, gray-brown CLAYEY SILT, occasional coarse gravel, trace to little fine gravel, moist to very moist. (CL-ML)
4 6 0	UPPER SILT	NA		2	DO	3.8 4.0	0.0 0.0 0.0 0.0	-	SA-2 4.0-8.0 Ft. As above to approx. 5.1 ft. bgs., moist, then loose, brown SILT and fine SAND, saturated, with occasional zones of firm, brown clayey silt, trace fine gravel. (SM)
8 10	GLACIOLACUSTRINE CLAY	NA		3	DO	2.5 4.0	0.0 0.0 0.0 0.0	-	SA-3 8.0-10.0 Ft. As above, saturated, to approx. 11.7 ft. bgs. (SM), then very soft, gray SILTY CLAY to CLAY, very plastic, very moist. (CL)  Glaciolacustrine clay (GC) beginning at approx. 11.7 ft. bgs.
12	END OF BORING 12.0' bgs.							- - - -	1020 - Collect soil sample 4.0-5.0 ft. bgs. for VOCs. 1035 - Collect groundwater sample for VOCs.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

JOB NO. 083-89111 PROJECT CWM/RMU-2 FOOTPRINT RELOCATION/NY DEPTH HOLE \_\_\_\_\_12.0' BORING NO. RMU2-W9 SHEET 1 of 1 DEPTH SOIL DRILL 12.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. 318.28 NO. DIST. N/A US. N/A TEMP. 45'F DRILL RIG BOBCAT MT52 DRILLER P. ORSI .DATUM\_SITE DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A STARTED 1055/2-10-09 TIME WL. N/A DROP N/A \_HRS. DELAYED\_N/A\_WT. CASING HAMMER\_\_\_N/A\_ .COMPLETED <u>1120/2-10-09</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK COKE S.T. SLOTTED TUBE T.P. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTTLED CA CASINIG NP NON-PLASTIC CL CLAYY ORG ORANGE CLY CLAYY ORG ORGANIC FRAG FRAGMENTS PH PRESSURE—HYDRAULIC GL CLYFEED RES RESIDUAL LYTEED RES RESIDUAL LYTTLE RX ROCK	"TRACE"   0-5%

W.S.	WASH SAMPLE LYD LYD LI	YERED TTLE	RES RX	RES	SIDUAL CK		WR Y	WEIGHT O	F RODS DN DENSE ST STIFF V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.		NO.	TYPE	SAMPLES REC/ATTEMPT	PID	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
2	FILL 0.0-1.3	NA			DO	4.0 4.0	0.0 0.0 0.0 0.0		SA-1 0.0-4.0 Ft. Very dense, coarse GRAVEL and SILT fill to approx. 1.3 ft. bgs. (GM), then stiff to firm, brown to red-brown CLAYEY SILT to SILTY CLAY, little to some fine gravel, trace cinders near top of interval, occasional thin (>0.1 ftthick) silt pockets, moist. (ML-CL)
4 6	TILL	NA		2	DO	4.0 4.0	0.0 0.0 0.0 0.0	-	SA-2 4.0-8.0 Ft. Stiff to firm, brown CLAYEY SILT, trace to little fine gravel, moist to very moist, with zone of compact, tan-brown SILT, little clay content, very moist, from approx. 4.7 ft. bgs., becoming firm with increasing gray clay content from approx. 6.7 ft. bgs. very moist. (ML)
10	GLACIOLACUSTRINE	NA		3	DO	4.0 3.9	0.0 0.0 0.1 0.0	1 1 1	SA-3 8.0-11.9 Ft. As above to approx. 8.7 ft. bgs., then firm to slightly soft, gray-brown SILTY CLAY, little to some fine gravel, occasional coarse gravel, occasional silt pockets, plastic, very moist with intermittent wet zones throughout. (CL)  Glaciolacustrine clay (GC) beginning at approx. 8.7 ft. bgs.
12	END OF BORING 11.9' bgs.								Geoprobe refusal at approx. 11.9 ft. bgs.  1125 - Collect soil sample 4.0-5.0 ft. bgs. for VOCs. 1550 - Collect groundwater sample for VOCs.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

DEPTH HOLE 12.0' JOB NO. 083-89111 PROJECT CWM/RMU-2 FOOTPRINT RELOCATION/NY BORING NO. RMU2-W10

DEPTH SOIL DRILL 12.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH SHEET 1 of 1

DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. 319.32

NO. DIST. N/A US. N/A TEMP. 45'F DRILL RIG BOBCAT MT52 DRILLER P. ORSI DATUM SITE

DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A STARTED 1145/2-10-09

TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A COMPLETED 1210/2-10-09

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK COKE S.T. SLOTTED TUBE T.P. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTTLED CA CASINIG NP NON-PLASTIC CL CLAYY ORG ORANGE CLY CLAYY ORG ORGANIC FRAG FRAGMENTS PH PRESSURE—HYDRAULIC GL CLYFEED RES RESIDUAL LYTEED RES RESIDUAL LYTTLE RX ROCK	"TRACE"   0-5%

W.S.	WASH SAMPLE LYD LA	YERED TLE	RES RX	RE RO	ŠIDUAL CK		WR Y	WEIGHT O	F RODS DN DONSE ST STIFF V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.		NO.	TYPE	SAMPLES REC/ATTEMPT	PID (ppm)	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
2	FILL 0.0-2.0'	- NA		1	DO	4.0 4.0	0.0 0.0 0.0 0.0	1 1	SA-1 0.0-4.0 Ft. Very dense, coarse GRAVEL and SILT fill to approx. 2.0 ft. bgs. (GM), then firm, brown SILTY  CLAY, some very fine to fine gravel, occasional coarse gravel, trace fine sand, moist to very moist. (CL)
6 8	TILL	NA		2	DO	<u>3.8</u> 4.0	0.0 0.0 0.0 0.0		SA-2 4.0-8.0 Ft. Stiff to firm, red-brown to brown SILTY CLAY, some fine gravel, occasional coarse gravel, moist to very moist, intermittent slightly wet zones throughout, with increasing clay content towards bottom, moist to very moist. (CL-GC)
10	GLACIOLACUSTRINE CLAY	NA		3	DO	4.0 4.0	0.0 0.0 0.0 0.0		SA-3 8.0-10.0 Ft. Firm, brown SILTY CLAY to CLAY, trace fine gravel, plasticity and softness increasing from approx. 9.8 ft. bgs., plastic, very moist. (CL)  Glaciolacustrine clay (GC) beginning at approx. 8.0 ft. bgs.
2	END OF BORING 12.0' bgs.							- - - -	1215 - Collect soil sample 6.0-8.0 ft. bgs. for VOCs. 1555 - Collect groundwater sample for VOCs.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007	
	BORING NO. RMU2-W11
DEPTH SOIL DRILL 12.0 GA INSP. RJM DRILLING METHOD DIRECT PUSH	_SHEET 1 of 1
DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING	_SURFACE_EL319.15
	_DATUMSITE
DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A	_STARTED_1330/2-10-09
TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A	_COMPLETED <u>1355/2-10-09</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK COKE S.T. SLOTTED TUBE T.P. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTTLED CA CASINIG NP NON-PLASTIC CL CLAYY ORG ORANGE CLY CLAYY ORG ORGANIC FRAG FRAGMENTS PH PRESSURE—HYDRAULIC GL CLYFEED RES RESIDUAL LYTEED RES RESIDUAL LYTTLE RX ROCK	"TRACE"   0-5%

W.s.	WASH SAMPLE LYD LA	YERED TLE	RES RX	RES	SIDUAL CK		WR Y	WEIGHT O	F RODS DN DENSE ST STIFF V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.		NO.	TYPE	SAMPLES REC/ATTEMPT	PID (ppm)	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
2	FILL 0.0-0.2'	NA			DO		0.0 0.0 0.0 0.0	-	SA-1 0.0-4.0 Ft. Thin layer of gravelly topsoil, then firm, tan-gray and brown mottled CLAYEY SILT to SILTY CLAY, occasional coarse gravel, little fine gravel, occasional pockets of tan-brown coarse sand, plant roots throughout, very moist. (ML-CL)
4 6 0	TILL	NA		2	DO	<u>4.0</u> 4.0	0.0 0.0 0.0 0.0	-	SA-2 4.0-8.0 Ft. Firm, brown CLAYEY SILT to SILTY CLAY, little fine gravel, occasional coarse gravel, occasional thin (>0.1-ft. thick) silt seams, very moist, to approx. 7.6 ft. bgs. (ML-CL), then compact, brown to tan-brown SILT, very moist to wet. (ML)
8 10	UPPER SILT TILL GLACIOLACUSTRINE CLAY — — — — —	NA		3	DO	4.0 4.0	0.0 0.0 0.0	1 1	SA-3 8.0-12.0 Ft. As above, saturated, to approx. 11.6 ft. bgs. (ML), then very soft, gray to gray-brown CLAY, trace fine gravel, high plasticity, very moist. (CL)  Glaciolacustrine clay (GC) beginning at approx. 11.6 ft. bgs.
12	END OF BORING 12.0' bgs.								1405 - Collect soil sample 6.5-7.5 ft. bgs. for VOCs. 1610 - Collect groundwater sample for VOCs.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

JOB NO. 083-89111 PROJECT CWM/RMU-2 FOOTPRINT RELOCATION/NY 11.5' BORING NO. RMU2-W12 DEPTH HOLE \_ SHEET 1 of 1 DEPTH SOIL DRILL 11.5' GA INSP. RJM DRILLING METHOD DIRECT PUSH DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. 319.68 NO. DIST. N/A US. N/A TEMP. 46'F DRILL RIG BOBCAT MT52 DRILLER P. ORSI .DATUM\_SITE \_\_\_HRS. PROD.\_\_N/A\_\_WT. SAMPLER HAMMER\_\_N/A\_\_\_ DEPTH WL. N/A DROP N/A STARTED 1410/2-10-09 DROP N/A TIME WL. N/A HRS. DELAYED<u>N/A</u>WT. CASING HAMMER\_ .COMPLETED <u>1435/2-10-09</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTHED CA CASING NP NON-PLASTIC CL CLAY OG ORANGE CLY CLAYEY ORG ORGANIC F FINE PH PRESSURE—HYDRAULIC F FRAGMENTS PM PRESSURE—MANUAL GL GRAVEL RES RESIDUAL LI LITTLE	"TRACE" - 0 - 5%

FT. No. TYPE REC/ATTEMPT (PPM)  FILL 0.0-0.2'  SA-1 0.0-4.0 Ft. Thin lay brown CLAYEY SI coarse gravel, little brown to tan-brown	PTION AND BORING NOTES  ver of gravelly topsoil, then firm, LT to SILTY CLAY, occasional e fine gravel, trace fine sand, some n mottled silt pockets, plant roots ear top to very moist. (ML-CL)
DEPTH DESCRIPTION FT. No. TYPE REC/ATTEMPT (pip (ppm)) DEPTH SAMPLE DESCRIPTION FT. No. TYPE REC/ATTEMPT (pip (ppm)) DEPTH SAMPLE DESCRIPTION DEPT	/er of gravelly topsoil, then firm, LT to SILTY CLAY, occasional e fine gravel, trace fine sand, some n mottled silt pockets, plant roots
0.0 brown CLAYEY SI coarse gravel, little brown to tan-brown	LT to SILTY CLAY, occasional e fine gravel, trace fine sand, some n mottled silt pockets, plant roots
coarse gravel, little	n mottled silt pockets, plant roots
F	
	ear top to very moist. (ML-CL)
E   UPPER CLAY	
TILL SA-2 4.0-8.0 Ft. Firm, bi	rown CLAYEY SILT, little fine gravel,
	gravel, occasional thin (>0.1-ft.
	d silt partings, with zone of SILT and ND from approx. 4.6-5.2 ft. bgs.,
	creasing clay content towards
NA 2 2 DO 3.9 very moist, with including the bottom. (ML to SM)	
‡	
SA-3 8.0-11.5 Ft. Compa	act to dense, tan-brown SILT,
	ox. 8.9 ft. bgs. (ML), then firm, brown asional coarse gravel, little fine
gravel, very moist:	
E 10 GLACIOLACUSTRINE NA 3 DO 4.0 0.0 Glacialacustrina d	
GLANG	ay (GC) beginning at approx. 8.9 ft.
CLAY 0.0 J bgs.	
END OF BORING Geoprobe refusal at appro	
11.5' bgs. 11.5' bgs. 1425 - Collect soil sample	
E	er sample for vocs.
	ush drilling method does not
The field by physical (ha	consistency was determined
E	inu) observation.
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NYSDEC OHMS Document No. 201469232-00007	
	BORING NO. RMU2-W13
DEPTH SOIL DRILL 12.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH	_SHEET 1 of 1
DEPTH ROCK CORE N/A WEATHER P.SUNNY DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING	_SURFACE_EL320.73
NO. DIST. N/A US. N/A TEMP. 46°F DRILL RIG BOBCAT MT52 DRILLER P. ORSI	_DATUMSITE
DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A	STARTED_1450/2-10-09
TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A	COMPLETED <u>1510/2-10-09</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.D. THIN-WALLED, OPEN T.D. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MC MICACEOUS C COARSE MOT MOTTLED CA CASING NP NON-PLASTIC CL CLAY OG GRANGE CLY CLAYEY ORG ORGANIC FRAG FRAGMENTS PH PRESSURE—HYDRAULIC FRAG GRAYE PH PRESSURE—MANUAL C GRAYE RESULTED LYTERED RES RESULTED LYTERED RES ROCK	

	נו נו נו	TLE	RX	RO	CK		Ÿ`	YELLOW	V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.	,	NO.	TYPE	SAMPLES REC/ATTEMPT	PID (ppm)	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
2	FILL 0.0-1.2'	NA		1	DO	4.0 4.0	0.0 0.0 0.0 0.1	- -	SA-1 0.0-4.0 Ft. Dense, coarse GRAVEL and SILT fill to approx. 1.2 ft. bgs. (GM), then firm, brown to gray-brown CLAYEY SILT to SILTY CLAY, trace fine gravel, moist, to approx. 3.5 ft. bgs. (ML-CL), then loose, coarse GRAVEL and rock fragments. (GP)
4	TILL	NA		2	DO	4.0 4.0	0.0 0.0 0.0 0.0	- - -	SA-2 4.0-8.0 Ft. Stiff, brown CLAYEY SILT to SILTY CLAY, little to some fine gravel, occasional coarse gravel, slightly laminated, very moist. (ML-CL)
10	GLACIOLACUSTRINE CLAY	NA		3	DO	<u>4.0</u> 4.0	0.0 0.0 0.0 0.0	- - -	SA-3 8.0-12.0 Ft. As above, with zone of brown, medium to coarse sand from approx. 8.2-8.3 ft., some coarse gravel, then firm, brown SILTY CLAY, occasional coarse gravel, little fine gravel, increasing softness towards bottom, very moist. (CL)  Glaciolacustrine clay (GC) beginning at approx. 8.3 ft. bgs.
12	END OF BORING 12.0' bgs.							-	1515 - Collect soil sample 6.0-8.0 ft. bgs. for VOCs.  1530 - Collect groundwater sample for VOCs.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

DEPTH HOLE 16.0' JOB NO. 083-89111 PROJECT CWM/RMU-2 FOOTPRINT RELOCATION/NY BORING NO. RMU2-W14

DEPTH SOIL DRILL 16.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH SHEET 1 of 1

DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. 320.5

NO. DIST. N/A US. N/A TEMP. 45'F DRILL RIG BOBCAT MT52 DRILLER P. ORSI DATUM SITE

DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A STARTED 0815/2-11-09

TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A COMPLETED 0845/2-11-09

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTHED CA CASING NP NON-PLASTIC CL CLAY OG ORANGE CLY CLAYEY ORG ORGANIC F FINE PH PRESSURE—HYDRAULIC F FRAGMENTS PM PRESSURE—MANUAL GL GRAVEL RES RESIDUAL LI LITTLE	"TRACE" - 0 - 5%

W.S.	WASH SAMPLE LID	LITTLE	RX	RO	CK		Y	YELLOW	V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.		NO.	TYPE	SAMPLES REC/ATTEMPT	PID (ppm)	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
	FILL 0.0-1.5'						0.0	-	SA-1 0.0-4.0 Ft. Dense, coarse GRAVEL and SILT fill to approx. 1.5 ft. (GM), then stiff, brown CLAYEY SILT, little fine gravel, occasional coarse gravel, trace fine sand, some blackish, ash-like staining from approx.
. 2		NA		1	DO	4.0 4.0	0.0	-	3.0-4.0 ft. bgs., moist. (ML)
6	UPPER CLAY	NA		2	DO	4.0 4.0	1.5 1.0 0.0 0.0	-	SA-2 4.0-8.0 Ft. Stiff to firm, brown CLAYEY SILT to SILTY CLAY, little coarse gravel, little fine gravel, trace fine sand, occasional thin silt pockets, moist. (ML to CL)
· 8	TILL	NA		3	DO	4.0 4.0	0.0 0.0 0.0	1 1 1	SA-3 8.0-12.0 Ft. Firm, brown SILTY CLAY, occasional coarse gravel, little fine gravel, occasional fine sand seams, occasional thin silt pockets, increasing clay content from approx. 9.0 ft. bgs., moist to very moist. (CL)
12	GLACIOLACUSTRIN	E NA		4	DO	4.0 4.0	0.0 0.0 0.0		SA-4 12.0-16.0 Ft. As above, with zone of coarse gravel and fine to medium sand and silt, wet, from approx. 12.6-13.1 ft., moist, then very soft, gray-brown to brown SILTY CLAY to CLAY, trace fine gravel, very plastic, with approx. 0.3-ft. thick silt pocket at bottom of interva moist. (CL)  Glaciolacustrine clay (GC) beginning at approx. 12.4 ft bgs.
16	END OF BORING 16.0' bgs.								0830 - Collect soil sample 3.0-4.0 ft. bgs. for VOCs. 1505 - Collect groundwater sample for VOCs.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007	
	BORING NO. RMU2-W15
DEPTH SOIL DRILL 16.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH	_SHEET1 of 1
DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING	SURFACE EL. 320.02
	DATUM SITE
DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A	_STARTED_0900/2-11-09
TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A	_COMPLETED <u>0935/2-11-09</u>

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MC MICACEOUS C COARSE MOT MOTTLED CA CASING NP NON-PLASTIC CL CLAY OG GRANGE CLY CLAYY ORG ORGANIC F. FINE PH PRESSURE—HYDRAULIC FRAGMENTS PM PRESSURE—MANUAL GL GRAVEL R S LYD LAYERED RES RESIDUAL LI LITTLE RX ROCK	"TRACE" - 0 - 5%

	WASH SAME LIFE LIFE	TLE	RX	RO	<b>∠</b> N		Ÿ`	YELLOW	V VERY H HARD
ELEV. EPTH	DESCRIPTION	BLOWS/ FT.		NO.	TYPE	SAMPLES REC/ATTEMPT	PID (ppm)	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
2	FIL <u>L_0.0-0.5</u> '	NA		1	DO	4.0	0.0	-	SA-1 0.0-4.0 Ft. Loose, coarse GRAVEL and SILT fill to approx. 0.5 ft. (GM), then firm, brown CLAYEY SILT, some fine to medium sand, occasional coarse gravel, with zone of discolored CLAYEY SILT from approx. 2.6-3.0 ft. bgs., moist. (ML)
				•		4.0 4.0	0.0 3.2	_	
4 6	UPPER CLAY TILL	NA		2	DO	4.0 4.0	1.5 1.0 0.0 0.0	-	SA-2 4.0-8.0 Ft. Stiff, brown CLAYEY SILT, occasional coarse gravel, little fine gravel, occasional tan-brown silt pockets, with zone of fine to coarse sand and coarse gravel from approx. 5.5 to 5.8 ft. bgs., very moist to slightly wet to approx. 5.8 ft.(ML), then stiff to firm, brown to gray-brown SILTY CLAY, little fine gravel, trace fine sand and silt, with increasing clay content towards bottom, very moist. (CL)
10	GLACIOLACUSTRINE	NA		3	DO	2.9 4.0	0.0 0.0 0.0 0.0	1 1 1	SA-3 8.0-12.0 Ft. Firm, gray-brown SILTY CLAY, occasional coarse gravel, little fine gravel, slightly plastic, very moist. (CL) Glaciolacustrine clay (GC) beginning at approx. 8.0 ft bgs.
12	CLAY	NA		4	DO	1.8 4.0	0.0 0.0 0.0	-	SA-4 12.0-16.0 Ft. POOR RECOVERY; Very soft, gray-brown CLAY, trace fine gravel, very plastic, very moist. (CH)
16	END OF BORING 16.0' bgs.							-	0920 - Collect soil sample 2.5-3.5 ft. bgs. for VOCs.  1515 - Collect groundwater sample for VOCs.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007	
	BORING NO. RMU2-W16
DEPTH SOIL DRILL 12.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH	_SHEET1 of 1
DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING	_SURFACE_EL319.82
	_DATUMSITE
DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A	_STARTED_0950/2-11-09
TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A	_COMPLETED 1010/2-11-09

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTTLED CA CASING NP NON-PLASTIC CL CLAY OG GRANGE CLY CLAYEY ORG ORGANIC F FRAGMENTS PH PRESSURE-HYDRAULIC FRAGMENTS PH PRESSURE-MANUAL GL GRAYEL RES RESIDUAL LI LITTLE RX ROCK	SA

W.s.	WASH SAMPLE LYD LA	YERED TLE	RES RX	RES	SIDUAL CK		WR Y	WEIGHT C	F RODS DN DENSE ST STIFF V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.		NO.	TYPE	SAMPLES REC/ATTEMPT	PID	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
2	FILL 0.0-0.7'	NA			DO	4.0 4.0	0.0 0.0 0.0 0.2	-	SA-1 0.0-4.0 Ft. Dense, coarse GRAVEL and SILT fill to approx. 0.7 ft. bgs. (GM), then loose (dry), brown CLAYEY SILT, occasional coarse gravel, moist, with blackish, ash-like staining from approx. 2.2-2.8 ft. bgs., then loose, tan-brown SILT, saturated to 4.0 ft. bgs. (ML)
4 6 8	UPPER CLAY TILL	NA		2	DO	1.6 4.0	0.0 0.0 0.0	- -	SA-2 4.0-8.0 Ft. Saturated mix of loose SILT, fine to coarse SAND and fine to coarse GRAVEL, saturated. (GM-SM)
10	GLACIOLACUSTRINE	NA		3	DO	3.8 4.0	0.0 0.0 0.0 0.0		SA-3 8.0-12.0 Ft. Firm, brown SILTY CLAY, occasional coarse gravel, trace fine gravel, very moist to slightly wet to approx. 8.8 ft. bgs. (CL), then firm,gray-brown SILTY CLAY to CLAY, little fine gravel, some silt content, plastic, very moist. (CL)  Glaciolacustrine clay (GC) beginning at approx. 8.8 ft. bgs.
	END OF BORING 12.0' bgs.							- - - -	1015 - Collect soil sample 2.5-3.5 ft. bgs. for VOCs. 1520 - Collect groundwater sample for VOCs.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

DEPTH HOLE 16.0' JOB NO. 083-89111 PROJECT CWM/RMU-2 FOOTPRINT RELOCATION/NY BORING NO. RMU2-W17

DEPTH SOIL DRILL 16.0' GA INSP. RJM DRILLING METHOD DIRECT PUSH SHEET 1 of 1

DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. 319.94

NO. DIST. N/A US. N/A TEMP. 45'F DRILL RIG BOBCAT MT52 DRILLER P. ORSI DATUM SITE

DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A STARTED 1020/2-11-09

TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A COMPLETED 1050/2-11-09

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK CORE S.T. SLOTTED TUBE T.O. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTTLED CA CASING NP NON-PLASTIC CL CLAY OG GRANGE CLY CLAYEY ORG ORGANIC F FRAGMENTS PH PRESSURE-HYDRAULIC FRAGMENTS PH PRESSURE-MANUAL GL GRAYEL RES RESIDUAL LI LITTLE RX ROCK	SA

W.S.	WASH SAMPLE LYD	LAYERED LITTLE	RES RX	RO	SIDUAL CK	-	WR Y	WEIGHT C YELLOW	F RODS DN DENSE ST STIFF V VERY H HARD
ELEV. DEPTH	DESCRIPTION	BLOWS/ FT.	·	NO.	TYPE	SAMPLES REC/ATTEMPT	PID (ppm)	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
2	FILL_0.0-0.2'	NA		1	DO	3.4 4.0	0.0 0.0 0.0 0.2	- -	SA-1 0.0-4.0 Ft. Loose, coarse GRAVEL and SILT fill to approx. 0.4 ft. (GM), then firm, wafer-like, brown CLAYEY SILT, moist, with intermittent zones of coarse gravel and fine to coarse sand, wet, some ash-like material to approx. 4.0 ft. bgs. (ML)
2 4 6 10 12	UPPER CLAY	NA		2	DO	1.8 4.0	1.5 1.0 0.0 0.0	- - -	SA-2 4.0-8.0 Ft. Stiff, brown CLAYEY SILT, occasional coarse gravel, little fine gravel, occasional tan-brown silt pockets, with zone of fine to coarse sand and coarse gravel from approx. 5.5 to 5.8 ft. bgs., very moist to slightly wet to 5.8 ft. (ML), then stiff to firm, brown to gray-brown SILTY CLAY, little fine gravel, trace fine sand and silt, with increasing clay content towards bottom, very moist. (CL)
- 10	TILL	NA		3	DO	<u>1.5</u> 4.0	0.0 0.0 0.0 0.0	-	SA-3 8.0-12.0 Ft. Firm, gray-brown SILTY CLAY, occasional coarse gravel, little fine gravel, slightly plastic, very moist. (CL)
- 12 - 14		NA	-	4	DO	0.0 4.0	0.0 0.0 0.0	-	SA-4 12.0-16.0 Ft. NO RECOVERY; Core barrel nearly empty. Several chunks CLAYEY SILT falling out of barrel upon removal from boring.
- 16	END OF BORING 16.0' bgs.							- - - -	0920 - Collect soil sample 2.0-3.0 ft. bgs. for VOCs. 1515 - Collect groundwater sample for VOCs.  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.

NYSDEC OHMS Document No. 201469232-00007

DEPTH HOLE 1.5' JOB NO. 083-89111 PROJECT CWM/RMU-2 FOOTPRINT RELOCATION/NY BORING NO. RMU2-W18

DEPTH SOIL DRILL 1.5' GA INSP. RJM DRILLING METHOD DIRECT PUSH SHEET 1 of 1

DEPTH ROCK CORE N/A WEATHER OVERCAST DRILLING CO. ZEBRA ENVIRONMENTAL DRILLING SURFACE EL. 320.23

NO. DIST. N/A US. N/A TEMP. 49'F DRILL RIG BOBCAT MT52 DRILLER P. ORSI DATUM SITE

DEPTH WL. N/A HRS. PROD. N/A WT. SAMPLER HAMMER N/A DROP N/A STARTED 1100/2-11-09

TIME WL. N/A HRS. DELAYED N/A WT. CASING HAMMER N/A DROP N/A COMPLETED 1110/2-11-09

SAMPLE TYPES	ABBREVIATIONS	SOIL DESCRIPTION - RANGE OF PROPORTION
A.S. AUGER SAMPLE C.S. CHUNK SAMPLE D.O. DRIVE OPEN D.S. DENISON SAMPLE P.S. PITCHER SAMPLE R.C. ROCK COKE S.T. SLOTTED TUBE T.P. THIN-WALLED, OPEN T.P. THIN-WALLED, PISTON W.S. WASH SAMPLE	BL BLACK M MEDIUM BR BROWN MIC MICACEOUS C COARSE MOT MOTTLED CA CASINIG NP NON-PLASTIC CL CLAYY ORG ORANGE CLY CLAYY ORG ORGANIC FRAG FRAGMENTS PH PRESSURE—HYDRAULIC GL CLYFEED RES RESIDUAL LYTEED RES RESIDUAL LYTTLE RX ROCK	"TRACE" - 0 - 5%

W.S.	THIN—WALLED, PISTON GL GRA WASH SAMPLE LYD LAY LI LITT	ERED LE	RES RX	RES RO	SIDUAL CK	-	WH WR Y	WEIGHT O YELLOW	OF HAMMER CP COMPACT FM FIRM OF RODS DN DENSE ST STIFF V VERY H HARD
ELEV.		BLOWS/				SAMPLES			
DEPTH	DESCRIPTION	FT.		NO.	TYPE	REC/ATTEMPT	PID (ppm)	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
	END OF BORING	NA	111111111	1	DO	1.8 4.0	0.0	-	SA-1 0.0-2.0 Ft. Dense, coarse GRAVEL and SILT fill (GM), then loose, coarse GRAVEL, SILT and fine to coarse SAND, olive gray and black discoloring, strong organic odor present, wet. (GM-SM)
2	1.0' bgs.					Golder As			Geoprobe refusal at approx. 1.0 ft. bgs.; borehole offset approx. 1.0 ft. to the east and drilling reattempted.  Second attempt encountered geoprobe refusal again at approx. 1.5 ft. bgs.; borehole offset approx. 5-ft. to south and drilling reattempted.  Third attempt encountered geoprobe refusal again at approx. 1.5 ft. bgs. (red-brick and concrete fragments in partial core); borehole offset approx. 10-ft. to south and drilling reattempted.  SEE BORING LOG FOR RMU2-W18R (Fourth attempt).  NOTE: Since the Direct Push drilling method does not provide blow counts, soil consistency was determined in the field by physical (hand) observation.