

PROJECT: **Montgomery County Levees - Phase 2**SHEET: **1** OF **3**LATITUDE: **39.72998**LONGITUDE: **-84.20189**GEO. DATUM: **NAD 83(86)**START: **8/7/2023** END: **8/7/2023**NORTH: **634604.900**EAST: **1489872.262**COORD. DATUM: **3402 - Ohio South**LOGGER: **Dylan Brown**

STATION: _____

OFFSET: _____

BASELINE: _____

DRILLER: **Chris Lake**EQUIPMENT: **CME 55 C ATV Rig**DRILL CO.: **Geotechnology**METHOD DETAILS: **4.25 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%.**

∇ H₂O @ **23.2** C CAVED @ _____ TIME: **17:15** DATE: **8/7/2023** DESC.: **First encountered** PLUNGE: **-90**
 ∇ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ ELEV. DATUM: **NAVD 88**
 ∇ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **739.620**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0				S-1(0.0-1.5) PPen=3.75 tsf MC=11.4		0	TOPSOIL.	
1.5	S-1	100%	3	S-1 to S-4(0.0-6.0) PL=18 LL=30 USCS=SC P#200=40.7		1	0.3' - EL 739.3	FILL.
3.0	S-2	47%	6	S-2(1.5-3.0) PPen=3.25 tsf MC=11.5		2	Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine to coarse, rounded, sandstone; nonplastic; dark brown; moist; NP; stiff to very stiff; heterogeneous.	
4.5	S-3	20%	9	S-3(3.0-4.5) MC=4		3		
6.0	S-4	40%	8	S-4(4.5-6.0) PPen=>4.5 tsf MC=11.7		4	sand and gravel seam.	
7.5	S-5	67%	5	S-5(6.0-7.5) MC=6.1		5		
9.0	S-6	33%	6	S-5 to S-10(6.0-15.0) PL=15 LL=18 USCS=GM P#200=21.4		6	6.0' - EL 733.6	FILL.
10.5	S-7	40%	7	S-6(7.5-9.0) MC=6.2		7	Silty GRAVEL with sand (GM); sand is fine to coarse; gravel is fine to coarse, rounded, sandstone; nonplastic; light brown; moist; NP; loose to medium dense; heterogeneous.	
12.0	S-8	100%	5	S-7(9.0-10.5) MC=5.3		8		
13.5	S-9	33%	8	S-8(10.5-12.0) MC=9.2		9		
15.0	S-10	0%	7	S-9(12.0-13.5) MC=14.3		10		
16.5	S-11	100%	3	S-10(13.5-15.0) PPen=1.5 tsf PL=18 LL=26 MC=24.9		11	15.0' - EL 724.6	ALLUVIUM.
18.0	S-12	100%	1	S-11(15.0-16.5) USCS=SC P#200=47.5		12	Clayey SAND (SC); sand is fine to medium; low plasticity; dark brown; moist; +PL; soft to stiff; homogeneous.	
19.5	S-13	100%	2	S-12(16.5-18.0) MC=19.3		13	17.3' - EL 722.3	ALLUVIUM.
				S-13(18.0-19.5) MC=26.7		14	Clayey SAND (sc); sand is fine to medium; nonplastic; dark brown; moist; NP; loose; homogeneous.	
				S-14(19.5-21.0) MC=26		15		
Monitoring well installed 8/7/2023.								

CHECKED BY: JDL

TEMPLATE=10L_BORING PROJECT=DAYTON LEVEES PH2.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 1/29/24

PROJECT: **Montgomery County Levees - Phase 2**SHEET: **2** OF **3**LATITUDE: **39.72998**LONGITUDE: **-84.20189**GEO. DATUM: **NAD 83(86)**START: **8/7/2023** END: **8/7/2023**NORTH: **634604.900**EAST: **1489872.262**COORD. DATUM: **3402 - Ohio South**LOGGER: **Dylan Brown**

STATION: _____

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DRILLER: **Chris Lake**EQUIPMENT: **CME 55 C ATV Rig**DRILL CO.: **Geotechnology**METHOD DETAILS: **4.25 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%.**

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 ∇ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ ELEV. DATUM: **NAVD 88**
 ∇ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **739.620**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
21.0	S-14	100%	2	S-15(21.0-22.5) MC=20.8		20		
22.5	S-15	100%	4	S-16(22.5-24.0) MC=11.5		21		
24.0	S-16	100%	3	S-17(24.0-25.5) MC=8.3		22		
25.5	S-17	100%	8	S-17 to S-27(24.0-40.5) PL=15 LL=18 USCS=GW-GM P#200=10.4		23	23.5' - EL 716.1	ALLUVIUM.
27.0	S-18	100%	5	S-18(25.5-27.0) MC=5.4		24	Well graded GRAVEL with silt and sand (GW-GM); sand is fine to coarse; gravel is fine to coarse, rounded, sandstone; nonplastic; light brown; moist to wet; NP; loose to dense; homogeneous.	
28.5	S-19	100%	9	S-19(27.0-28.5) MC=7.6		25		
30.0	S-20	100%	18	S-20(28.5-30.0) MC=10.5		26		
31.5	S-21	0%	21	S-22(31.5-33.0) MC=12.2		27	water at 27.6.	
33.0	S-22	20%	6	S-23(33.0-34.5) MC=11.9		28		
34.5	S-23	100%	6	S-24(34.5-36.0) MC=15.7		29		
36.0	S-24	20%	7	S-25(36.0-37.5) MC=9.2		30		
37.5	S-25	100%	6	S-26(37.5-39.0) MC=9.9		31		
39.0	S-26	100%	17	S-27(39.0-40.5) MC=10.3		32		
	S-27	100%	6			33		
			12			34		
						35		
						36		
						37		
						38		
						39		
						40		

Monitoring well installed 8/7/2023.

CHECKED BY: JDL

TEMPLATE=10L_BORING PROJECT=DAYTON LEVEES PH2.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 1/29/24

PROJECT: **Montgomery County Levees - Phase 2**SHEET: **3** OF **3**LATITUDE: **39.72998**LONGITUDE: **-84.20189**GEO. DATUM: **NAD 83(86)**START: **8/7/2023** END: **8/7/2023**NORTH: **634604.900**EAST: **1489872.262**COORD. DATUM: **3402 - Ohio South**LOGGER: **Dylan Brown**

STATION: _____

OFFSET: _____

BASELINE: _____

DRILLER: **Chris Lake**EQUIPMENT: **CME 55 C ATV Rig**DRILL CO.: **Geotechnology**METHOD DETAILS: **4.25 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%.**

▽ H₂O @ **23.2** C CAVED @ _____ TIME: **17:15** DATE: **8/7/2023** DESC.: **First encountered** PLUNGE: **-90**
▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ ELEV. DATUM: **NAVD 88**
▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **739.620**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
40.5			15			40	40.5' - EL 699.1	
						41	End of Boring at 40.5'	
						42		
						43		
						44		
						45		
						46		
						47		
						48		
						49		
						50		
						51		
						52		
						53		
						54		
						55		
						56		
						57		
						58		
						59		
						60		

Monitoring well installed 8/7/2023.

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TEMPLATE=10L_BORING PROJECT=DAYTON LEVEES PH2.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 1/29/24

PROJECT: **Montgomery County Levees - Phase 2**

SHEET: 1 OF 1

LATITUDE: 39.72998 LONGITUDE: -84.20187

GEO. DATUM: **NAD 83(86)**

START: 8/7/2023 END: 8/8/2023

NORTH: 634605.000 EAST: 1489875.600

COORD. DATUM: 3402 - Ohio South

LOGGER: **Dylan Brown**

STATION: OFFSET:

BASELINE:

DRILLER: **Chris Lake**

EQUIPMENT: CME 55 C ATV Rig

DRILL CO.: **Geotechnology**

METHOD DETAILS: 3.25 in ID HSA. 2.8 in ID thin wall tube.

<u>▽</u> H ₂ O @ <u>Dry</u>	<u>Ⓒ</u> CAVED @ _____	TIME: <u>08:00</u>	DATE: <u>8/8/2023</u>	DESC.: <u>0 Hr.</u>	PLUNGE: <u>-90</u>
<u>▽</u> H ₂ O @ _____	<u>Ⓒ</u> CAVED @ _____	TIME: _____	DATE: _____	DESC.: _____	ELEV. DATUM: <u>NAVD 88</u>
<u>▼</u> H ₂ O @ _____	<u>Ⓒ</u> CAVED @ _____	TIME: _____	DATE: _____	DESC.: _____	GROUND ELEV.: <u>739.620</u>

▼ H₂O @ Ⓒ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD 88**

▼ H₂O @ C CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **739.620**

CHECKED BY: JDL	SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
	0.0						0	See boring log DAYGML6-01 for soil description.	
		A-N					1	0.3' - EL 739.3 See boring log DAYGML6-01 for soil description.	FILL.
							2		
							3		
							4		
							5		
							6	6.0' - EL 733.6 See boring log DAYGML6-01 for soil description.	FILL.
							7		
							8		
							9		
							10		
							11		
							12		
							13		
							14		
	15.0				ST-1(15.0-17.0) PPen=2 tsf PL=19 LL=29 USCS=SC P#200=69.2		15	15.0' - EL 724.6	
		ST-1	100%				16	Clayey SAND (SC); sand is fine to medium; nonplastic; dark brown; moist; NP; soft to stiff; homogeneous.	ALLUVIUM.
	17.0						17	17.0' - EL 722.6	
							18	End of Boring at 17.0'	
							19		
							20		

Boring backfilled with cement-bentonite grout upon completion.