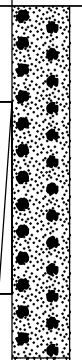
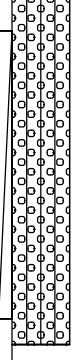


PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/29/2024** END: **10/29/2024**NORTH: **429211.4** EAST: **1600156.1** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **10:02** DATE: **10/29/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **08:10** DATE: **10/30/2024** DESC.: **34 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1009.9**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	73%	3	S-2/S-3(1.5-4.5) MC=22.8		0	Poorly graded GRAVEL with silt (gp-gm); gravel is fine to medium, subangular, flat, siltstone; brown; dry to moist; loose to medium dense; heterogeneous.	COLLUVIUM.
1.5	S-2	93%	6			1		
3.0	S-3	100%	6			3		
4.5	S-4	100%	7			5		
6.0	S-5	100%	6	S-5/S-6/S-7(6.0-10.5) PL=NP MC=11.8 USCS=SM P#200=31.5		6	Silty SAND (SM); sand is fine to coarse, subangular, flat, siltstone; light brown; dry; dense to very dense; homoeogeneous.	WEATHERED SILTSTONE.
7.5	S-6	100%	30			8		
9.0	S-7	100%	35			9		
10.5	S-8	100%	50/0.4			10		
10.9						11	10.9' - EL 999.0	
						12	End of Boring at 10.9'	
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/25/2024** END: **10/25/2024**NORTH: **428820.9** EAST: **1600550.6** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **6.4** C CAVED @ _____ TIME: **10:14** DATE: **10/25/2024** DESC.: **Before core** PLUNGE: **-90**▽ H₂O @ **1.5** C CAVED @ _____ TIME: **11:52** DATE: **10/25/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ **5** C CAVED @ _____ TIME: **12:45** DATE: **10/29/2024** DESC.: **96 Hr.** GROUND ELEV.: **987.7**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	67%	1	S-2/S-3/S-4(1.5-6.0) PL=21 LL=34 MC=13.3 USCS=SC P#200=30.4		0	Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine to coarse, angular, flat, sandstone and siltstone; medium plasticity; dark brown and gray; dry to moist; loose to medium dense; heterogeneous. Black fines throughout.	COLLUVIUM.
1.5	S-2	100%	5			1		
3.0	S-3	100%	4			2		
4.5	S-4	100%	3			3		
6.0	S-5	100%	8			4		
7.5	S-6	100%	13	S-9(12.0-13.5) MC=13.4		5	Silty GRAVEL (gm); gravel is fine to coarse, angular, flat, siltstone; nonplastic; light brown; dry; medium dense to dense, homogeneous.	RESIDUAL.
9.0	S-7	100%	17			6		
10.5	S-8	100%	5			7		
12.0	S-9	100%	13			8		
13.5	S-10	100%	13			9		
15.0	S-11	100%	23			10	Silty GRAVEL (gm); gravel is fine to coarse, angular, flat, siltstone; nonplastic; light gray; dry to moist; medium dense to very dense; homogeneous. Wet zone at 11 to 13 ft.	WEATHERED SILTSTONE.
16.5	S-12	100%	30			11		
18.0	S-13	100%	12			12		
19.5			24			13		
						14		

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TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **2** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/25/2024** END: **10/25/2024**NORTH: **428820.9** EAST: **1600550.6** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **6.4** C CAVED @ _____ TIME: **10:14** DATE: **10/25/2024** DESC.: **Before core** PLUNGE: **-90**▼ H₂O @ **1.5** C CAVED @ _____ TIME: **11:52** DATE: **10/25/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ **5** C CAVED @ _____ TIME: **12:45** DATE: **10/29/2024** DESC.: **96 Hr.** GROUND ELEV.: **987.7**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
20.3	S-14	100%	50/0.3			20	20.3' - EL 967.4	
21.5	R-1	100%	(0%)			21	CLAYSTONE; gray; weak rock; slightly weathered; indistinct bedding; close fractures; RD=<5 deg.; Unit RQD = 0%.	
						22		
						23		
	R-2	52%	(0%)			24		
						25		
26.5						26		
						27	27.5' - EL 960.2	
	R-3	93%	(20%)			28	SILTSTONE; light gray; medium strong rock; slightly weathered; indistinct bedding; close fractures to moderate fractures; RD=<5 deg. to 40 deg.; Unit RQD = 30%.	
						29		
30.5						30	30.5' - EL 957.2	
						31	End of Boring at 30.5'	
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/24/2024** END: **10/24/2024**NORTH: **429773.1** EAST: **1600269.6** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** C CAVED @ _____ TIME: **12:06** DATE: **10/24/2024** DESC.: **Before core** PLUNGE: **-90**▼ H₂O @ **11.7** C CAVED @ _____ TIME: **13:43** DATE: **10/24/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ **13.7** C CAVED @ _____ TIME: **12:20** DATE: **10/29/2024** DESC.: **118 Hr.** GROUND ELEV.: **1048.7**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0				S-1/S-2/S-3(0.0-4.5) PL=NP MC=13.6 USCS=SM P#200=48.8		0	TOPSOIL.	
1.5	S-1	100%	2			0.6' - EL 1048.1		COLLUVIUM.
3.0	S-2	100%	6				Silty SAND (SM); sand is fine to coarse; gravel is fine, angular; nonplastic; mottled orange brown and gray ; moist; medium dense; heterogeneous.	
4.5	S-3	67%	7					
6.0	S-4	100%	6			4.5' - EL 1044.2		COLLUVIUM.
7.5	S-5	100%	7	S-5(6.0-7.5) MC=13.6			Clayey SAND with gravel (sc); sand is fine to coarse; gravel is fine to coarse, angular; nonplastic; mottled orange brown and gray ; moist; loose to medium dense; heterogeneous.	
9.0	S-6	100%	5					
10.5	S-7	100%	5					
12.0	S-8	100%	5	S-8(10.5-12.0) PPen=2		10.5' - EL 1038.2		LAUCUSTRINE
13.5	S-9	20%	4				LEAN CLAY with sand (CL); sand is fine to medium; low plasticity; mottled orange brown and gray ; moist; -PL to +PL; stiff to very stiff; homogeneous.	
15.0	S-10	100%	1	S-10(13.5-15.0) PPen=2				
16.5	S-11	100%	5	S-11(15.0-16.5) PPen=1.75				
18.0	S-12	100%	6	S-12(16.5-18.0) PPen=1.75				
19.5	S-13	67%	7			19.0' - EL 1029.7		RESIDUAL.
			12				Clayey GRAVEL with sand (gc); sand is fine to coarse; gravel is fine to coarse, claystone; low plasticity; red,	
			25					
			37					

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TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

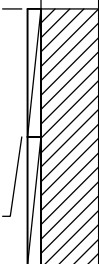
PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **2** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/24/2024** END: **10/24/2024**NORTH: **429773.1** EAST: **1600269.6** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **12:06** DATE: **10/24/2024** DESC.: **Before core** PLUNGE: **-90**▽ H₂O @ **11.7** C CAVED @ _____ TIME: **13:43** DATE: **10/24/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ **13.7** C CAVED @ _____ TIME: **12:20** DATE: **10/29/2024** DESC.: **118 Hr.** GROUND ELEV.: **1048.7**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
20.7	S-14	100%	50 50/0.2			20	purplish; moist; -PL; very dense; homogeneous. Relic rock structure.	
						21	20.7' - EL 1028.0	
	R-1	91%	(0%)			22	CLAYSTONE; dark red, brownish; extremely weak rock; moderately weathered; thinly laminated; RD=<5 deg.; very close fractures to close fractures; RD=<5 deg.; Unit RQD = 0%.	
23.0						23		
						24		
	R-2	94%	(30%)			25		
						26	25.8' - EL 1022.9	
						27	LIMESTONE; dark gray; weak rock to medium strong rock; moderately weathered to slightly weathered; thinly bedded; RD=<5 deg.; very close fractures to moderate fractures; RD=<5 deg. to near vertical; Unit RQD = 42%, fossiliferous.	
28.0				R-2(27.6-28.0) Qu=2179 psi		28	vertical fracture 25.9-26.5.	
						29	vertical fracture 28.4-29.6.	
	R-3	100%	(23%)			30		
31.0						31	31.0' - EL 1017.7	
						32	End of Boring at 31.0'	
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

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TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/24/2024** END: **10/24/2024**NORTH: **429773** EAST: **1600269** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **12:45** DATE: **10/24/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **12:20** DATE: **10/29/2024** DESC.: **131 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1048.7**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	A-N					0	Unsampled.	
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		
						13		
14.0				ST-1(14.0-16.0) PPen=1.5 PL=19 LL=27 MC=20.6 USCS=CL P#200=80.2		14	14.0' - EL 1034.7 LEAN CLAY with sand (CL); sand is fine to medium; low plasticity; mottled orange brown and gray ; moist; -PL to +PL; stiff; homogeneous.	LAUCUSTRINE
16.0				ND=109.3 pcf DS Phi=28.6 deg. DS C=172 psf ST-2(16.0-18.0) PPen=2		15		
18.0						16		
						17		
						18	18.0' - EL 1030.7 End of Boring at 18.0'	
						19		
						20		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/24/2024** END: **10/25/2024**NORTH: **429690.3** EAST: **1600342.8** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**

▽ H ₂ O @ Dry	☒ CAVED @ _____	TIME: 09:20	DATE: 10/25/2024	DESC.: Before core	PLUNGE: -90
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▽ H ₂ O @ 10	☒ CAVED @ _____	TIME: 11:22	DATE: 10/25/2024	DESC.: 0 Hr.	ELEV. DATUM: NAVD88
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▼ H ₂ O @ 15.5	☒ CAVED @ _____	TIME: 12:23	DATE: 10/29/2024	DESC.: 97 Hr.	GROUND ELEV.: 1040.6
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SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	TOPSOIL.	
	S-1	40%	2			0.6' - EL 1040.0		
1.5			1				Sandy LEAN CLAY with gravel (cl); sand is fine to coarse; gravel is fine to coarse, angular; medium plasticity; mottled orange brown and gray; moist; -PL; medium stiff to very stiff; heterogeneous.	COLLUVIUM.
	S-2	100%	2					
3.0			4					
	S-3	100%	7					
4.5			9					
	S-4	100%	7			4.5' - EL 1036.1		
6.0			5				LEAN CLAY with sand (cl); sand is fine to medium; medium plasticity; mottled orange brown and gray; moist; -PL to +PL; very stiff; homogeneous.	LAUCUSTRINE
	S-5	100%	7					
7.5			6					
	S-6	100%	6					
9.0			7					
	S-7	100%	6			9.0' - EL 1031.6		
10.5			7				Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine to coarse, subrounded; medium plasticity; brown; moist; medium dense; heterogeneous.	LAUCUSTRINE
	S-8	100%	7					
12.0			5					
	S-9	100%	6			12.0' - EL 1028.6		
13.5			5				Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine, claystone; medium plasticity; red, purplish; moist; medium dense to very dense; homogeneous. Relic rock structure.	RESIDUAL.
	S-10	100%	6					
15.0			4					
	S-11	100%	7					
16.5			17					
	S-12	100%	39					
17.7			50/0.2					
	R-1	100%	(0%)			17.7' - EL 1022.9		
18.0							CLAYSTONE; gray; extremely weak rock; completely weathered to highly weathered; very close fractures to close fractures; RD=<5 deg.; Unit RQD = 0%.	
	R-2	90%	(0%)			18.8' - EL 1021.8		
							SANDSTONE; brown; weak rock; highly weathered; thickly bedded; RD=<5 deg.; very close fractures to close	

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TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **2** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/24/2024** END: **10/25/2024**NORTH: **429690.3** EAST: **1600342.8** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **09:20** DATE: **10/25/2024** DESC.: **Before core** PLUNGE: **-90**▽ H₂O @ **10** C CAVED @ _____ TIME: **11:22** DATE: **10/25/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ **15.5** C CAVED @ _____ TIME: **12:23** DATE: **10/29/2024** DESC.: **97 Hr.** GROUND ELEV.: **1040.6**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
21.0	R-3	100%	(0%)			20	fractures; RD=<5 deg. to 40 deg.; Unit RQD = 0%.	
21.1						21	21.1' - EL 1019.5	
22.0	R-4	98%	(0%)			22	CLAYSTONE; gray, brownish; extremely weak rock to very weak rock; completely weathered to highly weathered; thinly laminated; RD=<5 deg.; extremely close fractures to close fractures; RD=<5 deg. to 50 deg.; Unit RQD = 0%.	
23.0						23		
24.0	R-4	98%	(0%)			24		
25.0						25	shale interbed 24.7-25.6.	
26.0	R-4	98%	(0%)			26		
27.0						27		
28.0	R-4	98%	(0%)			28	28.0' - EL 1012.6	
28.1						28	End of Boring at 28.0'	
29.0	R-4	98%	(0%)			29		
30.0						30		
31.0	R-4	98%	(0%)			31		
32.0						32		
33.0	R-4	98%	(0%)			33		
34.0						34		
35.0	R-4	98%	(0%)			35		
36.0						36		
37.0	R-4	98%	(0%)			37		
38.0						38		
39.0	R-4	98%	(0%)			39		
40.0						40		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/24/2024** END: **10/25/2024**NORTH: **429690** EAST: **1600342** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **10:00** DATE: **10/25/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **12:23** DATE: **10/29/2024** DESC.: **98 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1040.6**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	Unsampled.	
	A-N					1		
						2		
						3		
						4		
						5		
6.0				ST-1(6.0-8.0) PPen=4.25		6	6.0' - EL 1034.6	
	ST-1	100%				7	LEAN CLAY with sand (cl); sand is fine to medium; medium plasticity; mottled orange brown and gray; moist; -PL to +PL; very stiff; homogeneous.	LAUCUSTRINE
8.0						8	8.0' - EL 1032.6	
						9	End of Boring at 8.0'	
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/28/2024** END: **10/28/2024**NORTH: **429517.7** EAST: **1600495.3** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** CAVED @ _____ TIME: **12:12** DATE: **10/28/2024** DESC.: **Before core** PLUNGE: **-90**▼ H₂O @ **13** CAVED @ _____ TIME: **14:22** DATE: **10/28/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ **12.7** CAVED @ _____ TIME: **12:35** DATE: **10/29/2024** DESC.: **22 Hr.** GROUND ELEV.: **1020.8**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	TOPSOIL.	
	S-1	100%	4			0.6' - EL 1020.2		
1.5			5			1	Clayey SAND with gravel (sc); sand is fine to coarse; gravel is fine to coarse; nonplastic; brown; moist; medium dense; heterogeneous.	Disturbed Agricultural Soil
	S-2	100%	7			2		
3.0			8			3		
	S-3	100%	12			4		
4.5			10			4.5' - EL 1016.3		
	S-4	100%	8			5	Clayey SAND with gravel (sc); sand is fine to coarse; gravel is fine to coarse, subrounded; nonplastic; mottled orange brown and gray; moist; medium dense to dense; heterogeneous.	LAUCUSTRINE
6.0			19			6		
	S-5	100%	8			7		
7.5			7			7.5' - EL 1013.3		
	S-6	100%	9	S-6(7.5-9.0) PPen=1.75		8	Sandy LEAN CLAY (CL); medium plasticity; mottled orange brown and gray to gray; moist; -PL to +PL; stiff to very stiff; homogeneous.	LAUCUSTRINE
9.0			11			9		
	S-7	100%	3	S-7(9.0-10.5) PPen=1.75		10		
10.5			4	S-7/S-8/S-9(9.0-13.5) PL=20 LL=31		11		
	S-8	100%	5	MC=22.1		12		
12.0			6	USCS=CL		13		
	S-9	100%	6	P#200=65.6		14		
13.5			6	S-8(10.5-12.0) PPen=2		15		
	S-10	100%	4	S-9(12.0-13.5) PPen=2.25		16		
15.0			4	S-10(13.5-15.0) PPen=0.75		17		
	S-11	100%	4	S-11(15.0-16.5) PPen=0.75		18		
16.5			4	S-12(16.5-18.0) PPen=1		19		
	S-12	100%	5			20		
18.0			7	S-13(18.0-19.5) MC=23.1		18.0' - EL 1002.8		
	S-13	100%	2			19	Clayey SAND (sc); sand is fine to medium; nonplastic; gray; wet; very loose to loose; homogeneous.	LAUCUSTRINE
19.5			1			20		
			2					

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TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

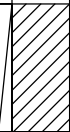
PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **2** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/28/2024** END: **10/28/2024**NORTH: **429517.7** EAST: **1600495.3** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** C CAVED @ _____ TIME: **12:12** DATE: **10/28/2024** DESC.: **Before core** PLUNGE: **-90**▼ H₂O @ **13** C CAVED @ _____ TIME: **14:22** DATE: **10/28/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ **12.7** C CAVED @ _____ TIME: **12:35** DATE: **10/29/2024** DESC.: **22 Hr.** GROUND ELEV.: **1020.8**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
21.0	S-14	7%	1 2 3			20		
						21	sample trap added for sample at 21.0'	
						21.9'	EL 998.9	
22.5	S-15	100%	3 5 13			22	Clayey GRAVEL with sand (gc); sand is fine to coarse; gravel is fine to coarse, angular, claystone; nonplastic; gray; moist; very dense; homogeneous. Relic rock structure.	RESIDUAL.
						23		
24.0	S-16	100%	12 24 38			24		
						25		
25.5	S-17	100%	39 46 31			26		
						26.8'	EL 994.0	
26.8	S-18	100%	40 50 50/0.3			27	CLAYSTONE; gray; extremely weak rock; completely weathered to highly weathered; very close fractures to close fractures; RD=<5 deg.; Unit RQD = 0%.	
						28.0'	EL 992.8	
28.0	R-1	92%	(0%)			28	SILTY SANDSTONE; gray; weak rock; moderately weathered to slightly weathered; thinly bedded; RD=<5 deg.; very close fractures to close fractures; RD=<5 deg.; Unit RQD = 71%.	
						29		
31.0	R-2	83%	(70%)	R-2(29.7-30.5) Qu=4672 psi		30		
						31		
33.0	R-3	100%	(63%)			32		
						32.7'	EL 988.1	
						33	LIMESTONE; gray; medium strong rock to strong rock; slightly weathered; thickly bedded; RD=<5 deg.; very close fractures to close fractures; RD=<5 deg. to near vertical; Unit RQD = 23%.	
						34		
						35		
						35.8'	EL 985.0	
						36	SILTSTONE; gray; very weak rock; slightly weathered; thinly laminated; RD=<5 deg.; moderate fractures; RD=<5 deg.; Unit RQD = 100%.	
37.0						37		
						37.0'	EL 983.8	
							End of Boring at 37.0'	
						38		
						39		
						40		

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TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/28/2024** END: **10/28/2024**NORTH: **429517** EAST: **1600495** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **15:00** DATE: **10/28/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ ELEV. DATUM: **NAVD88**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1020.8**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	A-N					0	Unsamped.	
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		
14.0						13		
	ST-1	70%		ST-1(14.0-16.0) PPen=2 PL=18 LL=26 MC=18.7 USCS=CL P#200=80.8 ND=111.4 pcf		14	14.0' - EL 1006.8 LEAN CLAY with sand (CL); low plasticity; gray; moist; +PL; medium stiff; homogeneous. Contains organics.	LAUCUSTRINE
16.0						15	16.0' - EL 1004.8 End of Boring at 16.0'	
						16		
						17		
						18		
						19		
						20		

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TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/29/2024** END: **10/29/2024**NORTH: **429090.8** EAST: **1600872.5** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%.**▽ H₂O @ **Dry** CAVED @ _____ TIME: **16:30** DATE: **10/28/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ _____ CAVED @ **4** TIME: **08:00** DATE: **10/30/2024** DESC.: **39 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ _____ CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **997**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0			3			0	TOPSOIL.	
1.5	S-1	100%	4			1	1.0' - EL 996.0	
3.0	S-2	100%	6			2	Clayey SAND with gravel (sc); sand is fine to coarse; gravel is fine to coarse; nonplastic; brown; moist; medium dense; heterogeneous.	Disturbed Agricultural Soil
4.5	S-3	100%	6			3		
6.0	S-4	100%	5			4	4.5' - EL 992.5	
7.5	S-5	100%	5			5	Gravelly LEAN CLAY with sand (cl); sand is fine to coarse; gravel is fine to coarse; medium plasticity; brown; moist; -PL; stiff; heterogeneous.	Disturbed Agricultural Soil
9.0	S-6	100%	6			6	6.0' - EL 991.0	
10.5	S-7	67%	2			7	SILT with sand (ML); sand is fine to medium; nonplastic; gray, bluish; moist; very soft to stiff; homogeneous. bag samples collected 6.0-10.5.	LAUCUSTRINE
12.0	S-8	100%	WOH			8		
13.5	S-9	100%	WOH			9		
15.0	S-10	100%	4			10	14.0' - EL 983.0	
16.5	S-11	100%	12			11	Clayey GRAVEL with sand (gc); sand is fine to coarse; gravel is fine to coarse, angular, claystone; nonplastic; gray; moist; dense to very dense; homogeneous. Relic rock structure.	RESIDUAL.
18.0	S-12	100%	19			12		
19.5	S-13	100%	22			13		
			40			14		

PROJECT: Homer City Redevelopment - Rura Pad

SHEET: 2 OF 2

LATITUDE: LONGITUDE: GEO. DATUM: START: 10/29/2024 END: 10/29/2024

NORTH: 429090.8 EAST: 1600872.5 COORD. DATUM: 3702 - PA South LOGGER: Dylan Brown

STATION: OFFSET: BASELINE: DRILLER: Hunter Balmer

EQUIPMENT: CME 45 C Track Rig DRILL CO.: Penn Drill

METHOD DETAILS: 3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%.

▽ H₂O @ Dry C CAVED @ TIME: 16:30 DATE: 10/28/2024 DESC.: 0 Hr. PLUNGE: -90

▽ H₂O @ C CAVED @ 4 TIME: 08:00 DATE: 10/30/2024 DESC.: 39 Hr. ELEV. DATUM: NAVD88

▽ H₂O @ C CAVED @ TIME: DATE: DESC.: GROUND ELEV.: 997

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
20.3	S-14	100%	50/0.3			20	20.3' - EL 976.7	
						21	End of Boring at 20.3'	
						22		
						23		
						24		
						25		
						26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

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TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/24/2024** END: **10/24/2024**NORTH: **428904.9** EAST: **1601036.8** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **7.1** C CAVED @ _____ TIME: **14:12** DATE: **10/24/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ **7.6** C CAVED @ _____ TIME: **12:40** DATE: **10/29/2024** DESC.: **118 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **993.1**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	100%	WOH 2	S-1/S-2(0.0-3.0) PL=22 LL=31 MC=16.8 USCS=CL P#200=57.4		0	Sandy LEAN CLAY (CL); sand is fine to coarse; brown; low plasticity; dry; medium stiff to very stiff; heterogeneous.	COLLUVIUM
1.5	S-2	100%	5			1		
3.0	S-3	100%	18			3		
4.5	S-4	100%	8	S-9(12.0-13.5) MC=21.1		4	Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine to coarse, angular, flat, sandstone; brown and gray; moist to wet; loose to medium dense; homogeneous.	RESIDUAL
6.0	S-5	100%	5			6		
7.5	S-6	100%	1			8		
9.0	S-7	93%	8	S-9(12.0-13.5) MC=21.1		9	Silty GRAVEL (gm); gravel is fine, angular, flat, siltstone; light gray; dry; dense to very dense; homogeneous. Wet seam 12-13 ft.	WEATHERED SILTSTONE
10.5	S-8	100%	7			11		
12.0	S-9	100%	7			12		
13.5	S-10	100%	10	S-9(12.0-13.5) MC=21.1		13	Silty GRAVEL (gm); gravel is fine, angular, flat, siltstone; light gray; dry; dense to very dense; homogeneous. Wet seam 12-13 ft.	WEATHERED SILTSTONE
15.0	S-11	100%	16			15		
15.7			50/0.2			15.7		
						16	End of Boring at 15.7'	
						17		
						18		
						19		
						20		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/24/2024** END: **10/24/2024**NORTH: **428904** EAST: **1601036** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ PLUNGE: **-90**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ ELEV. DATUM: **NAVD88**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **993.1**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	Unsampled.	
						1		
						2		
						3		
						4		
						5		
						6		
7.0						7	7.0' - EL 986.1	
	A-N					8		
8.3	ST-1	100%		ST-1(7.0-8.3) PPen=3.5 PL=21 LL=31 MC=13.6 USCS=SC P#200=36 ND=104.8 pcf DS Phi=30.3 deg. DS C=504 psf		8	Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine to coarse, angular, flat, sandstone; brown and gray; moist to wet; very loose to medium dense; homogeneous.	Pressure reading while pushing Shelby Tube of 1500 psi
						9	8.3' - EL 984.8	
						10	End of Boring at 8.3'	
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		
ST-1 refusal at 8.3 ft								

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/22/2024** END: **10/22/2024**NORTH: **428837.3** EAST: **1601551.4** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** CAVED @ _____ TIME: **11:35** DATE: **10/22/2024** DESC.: **0 Hr.** PLUNGE: **-90**▼ H₂O @ _____ CAVED @ **2** TIME: **09:05** DATE: **12/28/2024** DESC.: **141 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ _____ CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **997.8**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0				S-1/S-2(0.0-3.0) PL=NP MC=14.5 USCS=SM P#200=47.8		0	TOPSOIL.	
	S-1	100%	4			0.6' - EL 997.2		Disturbed Agricultural Soil.
1.5						1	Silty SAND (SM); sand is fine to coarse; nonplastic; dark brown; moist; medium dense; heterogeneous.	
	S-2	53%	8			2		
3.0				S-3/S-4/S-5/S-6(3.0-9.0) PL=22 LL=31 MC=13.1 USCS=CL P#200=57		3	Sandy LEAN CLAY (CL); sand is fine to coarse; low plasticity; dark brown; moist; very stiff; heterogeneous.	
	S-3	100%	6			4		
4.5						5		
	S-4	100%	9			6		
6.0						7		
	S-5	20%	14			8		
7.5						9		
	S-6	0%	8			10		
9.0						11		
	S-7	100%	9			12	Clayey GRAVEL with sand (gc); sand is fine to coarse; gravel is fine to coarse, angular, flat, shale; nonplastic; dark brown, grayish; moist; very dense; homogeneous.	RESIDUAL.
10.5						13		
	S-8	100%	50			14		
11.0						15	11.0' - EL 986.8	
						16	End of Boring at 11.0'	
						17		
						18		
						19		
						20		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/22/2024** END: **10/22/2024**NORTH: **430011.7** EAST: **1600592.3** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **10:40** DATE: **10/22/2024** DESC.: **Before core** PLUNGE: **-90**▽ H₂O @ **3.7** C CAVED @ _____ TIME: **11:49** DATE: **10/22/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ **16.4** C CAVED @ _____ TIME: **09:40** DATE: **10/28/2024** DESC.: **142 Hr.** GROUND ELEV.: **1065.4**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	100%	4 3 2			0	Silty GRAVEL with sand (gm); sand is fine; gravel is fine to coarse, subangular, flat, sandstone; light brown and brown; dry; loose to dense; heterogeneous.	COLLUVIUM.
1.5	S-2	100%	11 18 15			2		
3.0	S-3	100%	13 7 7			3		
4.5	S-4	100%	8 7 8	S-4(4.5-6.0) MC=17.8		4	Silty SAND with gravel (sm); sand is fine; gravel is fine, sandstone and siltstone; brown and gray; dry; medium dense; heterogeneous.	COLLUVIUM.
6.0	S-5	100%	4 5 6			5		
7.5	S-6	80%	7 8 10			6		
9.0	S-7	100%	7 7 6	S-7/S-8/S-9(9.0-13.5) PL=NP MC=15.7 USCS=SM P#200=46.5		7	Silty SAND (SM); sand is fine to medium, subangular, flat, sandstone; light brown; dry; medium dense; homogeneous.	COLLUVIUM.
10.5	S-8	100%	6 7 7			8		
12.0	S-9	100%	5 5 3			9		
13.5	S-10	100%	5 10 10			10		
15.0	S-11	100%	8 10 21			11		
16.5	S-12	100%	27 50/0.3			12		
17.3	R-1	68%	(0%)			13		
19.5						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **2** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/22/2024** END: **10/22/2024**NORTH: **430011.7** EAST: **1600592.3** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** C CAVED @ _____ TIME: **10:40** DATE: **10/22/2024** DESC.: **Before core** PLUNGE: **-90**▼ H₂O @ **3.7** C CAVED @ _____ TIME: **11:49** DATE: **10/22/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ **16.4** C CAVED @ _____ TIME: **09:40** DATE: **10/28/2024** DESC.: **142 Hr.** GROUND ELEV.: **1065.4**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
24.5	R-2	94%	(0%)			20		
						21		
						22		
						23		
						24		
27.5	R-3	97%	(0%)			25		
						26		
						27		
						27.5' - EL 1037.9		
						End of Boring at 27.5'		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/22/2024** END: **10/23/2024**NORTH: **429799** EAST: **1600807.5** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **31.1** C CAVED @ _____ TIME: **09:04** DATE: **10/23/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ **29.2** C CAVED @ _____ TIME: **09:29** DATE: **10/28/2024** DESC.: **120 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1030.9**

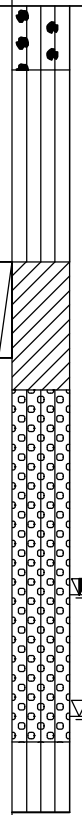
SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	100%	3	S-2/S-3/S-4/S-5(1.5-7.5) PL=22 LL=33 MC=16.7 USCS=CL P#200=64		0	Sandy LEAN CLAY (CL); sand is fine to coarse; gravel is fine, subangular, flat, sandstone and siltstone; light brown and brown; dry; medium plasticity; stiff to hard; homogeneous. Sandstone boulder 8.1 to 9'. cored soil to 13.5.	COLLUVIUM.
1.5	S-2	87%	5			1		
3.0	S-3	13%	12			2		
4.5	S-4	13%	13			3		
6.0	S-5	100%	4			4		
7.5	S-6	100%	10			5		
8.1			50/0.1			6	8.1' - EL 1022.8 COBBLES/BOULDERS	COLLUVIUM.
	R-N					7		
						8		
						9		
						10		
						11		
13.5	S-7	100%	2			12	13.5' - EL 1017.4 Silty GRAVEL with sand (gm); sand is fine; gravel is coarse to fine, subangular, flat, sandstone and siltstone; brown and gray; moist; medium dense; heterogeneous.	COLLUVIUM.
15.0	S-8	100%	10			13		
16.5	S-9	100%	6			14		
18.0	S-10	100%	7			15		
19.5						16		
						17		
						18		
						19		
						20		

moved 8.5 ft 160 degrees south due to gas line

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **2** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/22/2024** END: **10/23/2024**NORTH: **429799** EAST: **1600807.5** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **31.1** C CAVED @ _____ TIME: **09:04** DATE: **10/23/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ **29.2** C CAVED @ _____ TIME: **09:29** DATE: **10/28/2024** DESC.: **120 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1030.9**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
21.0	S-11	100%	7 7 9	S-14(24.0-25.5) PPen=0.5 MC=27.7		20	21.0' - EL 1009.9	COLLUVIUM.
22.5	S-12	100%	2 4 7			21	Sandy SILT (ml); sand is fine, subrounded, flat, sandstone; brown and gray; moist; stiff to very stiff; homogeneous. Trace clay, gravel content decreases with depth.	
24.0	S-13	100%	10 7 7			22		
25.5	S-14	100%	WOH WOH 3			23	24.0' - EL 1006.9	COLLUVIUM.
27.0	S-15	100%	5 5 6			24	Sandy LEAN CLAY (cl); sand is fine, subangular, flat, sandstone; brown and gray; moist; -PL; soft; homogeneous.	
28.5	S-16	100%	1 1 4			25	26.0' - EL 1004.9	
30.0	S-17	100%	10 5 16			26	Silty SAND (sm); sand is fine to coarse, subangular, flat, sandstone; gray and brown; moist to wet; loose to medium dense; homogeneous. Becomes all gray below 27'.	COLLUVIUM.
31.5	S-18	0%	3 6 4			27		
32.6	S-19	91%	3 16 50/0.1			28	31.5' - EL 999.4	
						29	SILT (ml); light gray; dry; hard; homogeneous.	WEATHERED SILTSTONE.
						30	32.6' - EL 998.3	
						31	End of Boring at 32.6'	
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

moved 8.5 ft 160 degrees south due to gas line

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**

SHEET: 1 OF 1

LATITUDE: LONGITUDE: GEO. DATUM: START: 10/23/2024 END: 10/23/2024

NORTH: 429386.4 EAST: 1601224.9 COORD. DATUM: 3702 - PA South LOGGER: Dylan Brown

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**

METHOD DETAILS: 3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.

▽ H₂O @ Dry C CAVED @ TIME: 12:04 DATE: 10/23/2024 DESC.: 0 Hr. PLUNGE: -90

▽ H₂O @ C CAVED @ 9 TIME: 09:26 DATE: 10/28/2024 DESC.: 117 Hr. ELEV. DATUM: NAVD88

▼ H₂O @ Ⓒ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1006.1**

CHECKED BY: JML	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=3.25		0	TOPSOIL.	
		S-1	100%	1	S-1/S-2(0.0-3.0) PL=20 LL=31 MC=20.1 USCS=CL P#200=78.2		0.3' - EL 1005.8		FILL.
	1.5			3			1	LEAN CLAY with sand (CL); sand is fine to medium; medium plasticity; mottled orange brown and gray ; moist; -PL; stiff; heterogeneous.	
		S-2	100%	4			2		
	3.0			5	S-2(1.5-3.0) PPen=3.25		3	3.0' - EL 1003.1	LAUCUSTRINE.
		S-3	100%	5			4	Clayey SAND (sc); sand is fine to medium; nonplastic; mottled orange brownand gray ; moist; medium dense; homogeneous.	
	4.5			6	S-4(4.5-6.0) PPen=3.5		4	gray clay 3.0-3.5, with trace rounded gravel.	LAUCUSTRINE.
		S-4	100%	4			5	4.0' - EL 1002.1	
	6.0			6	S-5(6.0-7.5) PPen=3.75		5	LEAN CLAY with sand (CL); sand is fine; medium plasticity; mottled orange brown and gray ; moist; -PL; very stiff; homogeneous.	
		S-5	100%	8			6		
	7.5			10			7		
		S-6	100%	10			8	8.3' - EL 997.8	
9.0			11			9	Clayey SAND with gravel (sc); sand is fine to coarse; gravel is fine to coarse, subrounded; nonplastic; mottled orange brownand gray ; moist; medium dense; homogeneous.	LAUCUSTRINE.	
	S-7	100%	10			10			
10.5			11	S-8/S-9(10.5-13.5) MC=13.2		11			
	S-8	100%	8			12			
12.0			10			13			
	S-9	100%	27			14	13.5' - EL 992.6		
13.5			18			15	Clayey GRAVEL with sand (gc); sand is fine to coarse; gravel is fine to coarse, angular, flat, claystone; nonplastic; light gray; dry to wet; homogeneous.	RESIDUAL.	
	S-10	100%	12			16			
15.0			24			17			
	S-11	100%	1			18			
16.5			8			19			
	S-12	100%	29			20	17.3' - EL 988.8		
17.3			50/0.3			21	End of Boring at 17.3'		
						22			
						23			
						24			
						25			
						26			
						27			
						28			
						29			
						30			

DATE PRINTED= 2/10/25
LIBRARY=BAKER_10-1.GLB
PROJECT=HCR - RURA PAD.GPJ
BORING=10L_BORING

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/23/2024** END: **10/23/2024**NORTH: **429386** EAST: **1601224** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** C CAVED @ _____ TIME: **12:04** DATE: **10/23/2024** DESC.: **0 Hr.** PLUNGE: **-90**▼ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ ELEV. DATUM: **NAVD88**▼ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1006.1**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	Unsampled.	
	A-N					1		
						2		
						3		
4.0				ST-1(4.0-6.0) PPen=3 PL=19 LL=28 MC=18.6 USCS=CL P#200=81.5 ND=114.5 pcf		4	4.0' - EL 1002.1 LEAN CLAY with sand (CL); sand is fine; medium plasticity; mottled orange brown and gray ; moist; -PL; very stiff; homogeneous.	LAUCUSTRINE.
	ST-1	100%				5		
6.0						6		
	ST-2	100%				7		
8.0						8	8.0' - EL 998.1 Gravelly bottom ST-2. End of Boring at 8.0'	
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/22/2024** END: **10/22/2024**NORTH: **428968.2** EAST: **1601648** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** C CAVED @ _____ TIME: **14:00** DATE: **10/22/2024** DESC.: **Before core** PLUNGE: **-90**▼ H₂O @ **3.5** C CAVED @ _____ TIME: **15:22** DATE: **10/22/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ _____ C CAVED @ **5.3** TIME: **09:08** DATE: **10/28/2024** DESC.: **138 Hr.** GROUND ELEV.: **1000.2**

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=2.25		0	TOPSOIL.	
	S-1	100%	3			0.4' - EL 999.8		Disturbed Agricultural Soil.
1.5				S-2(1.5-3.0) PL=20 LL=28 MC=16 USCS=CL P#200=73.5		1	LEAN CLAY with sand (CL); sand is fine to medium; low plasticity; dark brown; moist; stiff; heterogeneous. Trace rounded gravel in sand.	
	S-2	100%	5			2		
3.0				S-3(3.0-4.5) MC=7		3		
	S-3	100%	11			3.5' - EL 996.7		RESIDUAL
4.5						4	Clayey GRAVEL with sand (gc); sand is fine to coarse; gravel is fine to coarse, angular, flat, shale; nonplastic; dark brown, grayish; moist; very dense; homogeneous.	
	S-4	100%	42			5		
6.0						6		
6.2	S-5	100%	50/0.2			6.2' - EL 994.0		
	R-1	91%	(0%)			7	SHALE; dark gray; very weak rock; highly weathered to moderately weathered; thinly laminated to laminated; RD=<5 deg.; extremely close fractures to very close fractures; RD=<5 deg.; Unit RQD = 0%.	
8.5						8		
	R-2	100%	(0%)			9		
						10		
						11		
						12		
						13		
13.5						14		
	R-3	100%	(0%)			15		
						16		
16.0						16.0' - EL 984.2		
						17	End of Boring at 16.0'	
						18		
						19		
						20		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/22/2024** END: **10/22/2024**NORTH: **428573.3** EAST: **1602046.4** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** CAVED @ _____ TIME: **15:30** DATE: **10/22/2024** DESC.: **0 Hr.** PLUNGE: **-90**▼ H₂O @ _____ CAVED @ **3.5** TIME: **08:45** DATE: **10/28/2024** DESC.: **137 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ _____ CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **987.8**

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=4.5 MC=12.7		0	TOPSOIL.	
	S-1	100%	9			0.4' - EL 987.4		FILL
1.5				S-2(1.5-3.0) PPen=3.25		1	Sandy LEAN CLAY (cl); sand is fine to coarse; low plasticity; dark brown; moist; -PL; very stiff; heterogeneous.	
	S-2	67%	8			1.5' - EL 986.3		LAUCUSTRINE
3.0						2	Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine; nonplastic; mottled red brown and gray brown; moist; medium dense; homogeneous.	
	S-3	100%	4			3		
4.5				S-4(4.5-6.0) PPen=>4.5		4		
	S-4	100%	3			5		
6.0				S-5(6.0-7.5) PPen=3		6		
	S-5	100%	4			7		
7.5				S-6(7.5-9.0) PPen=2		8	increasing sand and silt content at 7.5 +PL, moist.	
	S-6	100%	8			9		
9.0				S-7/S-8(9.0-12.0) PL=NP MC=8.7 USCS=SP-SM P#200=10.3		9	Poorly graded SAND with silt and gravel (SP-SM); sand is fine to coarse; gravel is fine to coarse, angular, flat, shale; nonplastic; dark brown, grayish; moist; dense to very dense; homogeneous.	RESIDUAL
	S-7	100%	9			10		
10.5						11		
	S-8	93%	24			12		
12.0						12.2' - EL 975.6		
12.2	S-9	100%	50/0.2				End of Boring at 12.2'	
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/22/2024** END: **10/22/2024**NORTH: **428573** EAST: **1602046** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **16:00** DATE: **10/22/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ ELEV. DATUM: **NAVD88**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **987.8**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	Unsampled.	
	A-N					1		
						2		
3.0						3	3.0' - EL 984.8	
	ST-1	45%		ST-1(3.0-5.0) PPen=>4.5 PL=20 LL=29 MC=11.2 USCS=SC AASHTO=A-2-4(0) ND=127.7 pcf		4	Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine; nonplastic; mottled red brown and gray brown; moist; medium dense; homogeneous.	LAUCUSTRINE.
5.0						5	5.0' - EL 982.8	
	A-N					6	Unsampled.	
6.5						7	6.5' - EL 981.3	
	ST-2	100%				8	Sandy LEAN CLAY (cl); sand is fine to coarse; low plasticity; dark brown; moist; -PL; medium stiff; heterogeneous.	LAUCUSTRINE.
8.5						9	8.5' - EL 979.3	
						10	Gravelly bottom ST-2.	
						11	End of Boring at 8.5'	
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/17/2024** END: **10/17/2024**NORTH: **430394.2** EAST: **1600893.2** COORD. DATUM: **3702 - PA South** LOGGER: **Dave Gaviglia**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **11:10** DATE: **10/17/2024** DESC.: **Before core** PLUNGE: **-90**▽ H₂O @ **24.1** C CAVED @ _____ TIME: **15:26** DATE: **10/17/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ **24.9** C CAVED @ _____ TIME: **10:36** DATE: **10/28/2024** DESC.: **259 Hr.** GROUND ELEV.: **1108**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	60%	2	S-1(0.0-1.5) PPen=3.25		0	Sandy SILT with gravel (ml); gravel is fine to coarse, angular, flat and elongated, sandstone; light brown and brown; dry; -PL; medium stiff; heterogeneous.	FILL
1.5	S-2	93%	2			1	1.5' - EL 1106.5	
3.0	S-3	100%	9	S-3/S-4/S-5(3.0-7.5) PL=NP MC=13.9 USCS=SM P#200=25.8		2	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine to coarse, angular, flat and elongated, sandstone; light brown and brown; dry; medium dense; heterogeneous.	FILL
4.5	S-4	73%	6			3		
6.0	S-5	100%	11			4		
7.5	S-6	80%	5	S-6(7.5-9.0) PPen=2		5		
9.0	S-7	100%	5			6	8.0' - EL 1100.0	
10.5	S-8	80%	17	S-8/S-9(10.5-13.5) MC=4.2		7	Sandy SILT with gravel (ml); sand is fine; gravel is fine, angular, flat and elongated, siltstone; light brown and brown; dry; -PL; very stiff; heterogeneous.	FILL
12.0	S-9	87%	14			8	10.0' - EL 1098.0	
13.5	S-10	100%	12			9	Silty GRAVEL (gm); sand is fine; gravel is coarse, angular, flat and elongated, siltstone; light brown and brown; dry; dense to very dense; heterogeneous.	FILL
15.0	S-11	100%	40			10	14.0' - EL 1094.0	
15.9	R-1	92%	50/0.4	R-1(16.0-16.4) Qu=1749 psi		11	Poorly-graded GRAVEL with silt (gp-gm); sand is fine; gravel is coarse, angular, flat and elongated, siltstone; light brown and brown; dry; very dense; homogeneous.	RESIDUAL
						12	15.9' - EL 1092.1	
						13	SILTSTONE, fine grained; gray and orange; extremely weak rock to medium strong rock; completely weathered to moderately weathered; thinly laminated to laminated; RD=<5 deg.; extremely close fractures to close fractures; RD=<5 deg. to near vertical; Unit RQD = 3%.	
						14		
						15		
						16		
						17		
						18		
						19		
						20		

Move boring 20' onto gravel path 240 degrees az. 10'+ elev. change.

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**

SHEET: **2** OF **2**

LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/17/2024** END: **10/17/2024**

NORTH: **430394.2** EAST: **1600893.2** COORD. DATUM: **3702 - PA South** LOGGER: **Dave Gaviglia**

STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**

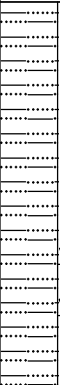
EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**

METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**

▽ H₂O @ **Dry** C CAVED @ _____ TIME: **11:10** DATE: **10/17/2024** DESC.: **Before core** PLUNGE: **-90**

▽ H₂O @ **24.1** C CAVED @ _____ TIME: **15:26** DATE: **10/17/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▽ H₂O @ **24.9** C CAVED @ _____ TIME: **10:36** DATE: **10/28/2024** DESC.: **259 Hr.** GROUND ELEV.: **1108**

CHECKED BY: JML		SAMPLE DEPTH (FT)		SAMPLE TYPE - NUMBER		RECOVERY %		SPT BLOWS/0.5 FT or (RQD)		TEST RESULTS		STRATA		DEPTH		DESCRIPTION		REMARKS	
21.0				R-2		100%		(0%)						20					
														21					
																22			
																		23	
																		24	
																		25	
																		26	
26.0																26.0' - EL 1082.0			
																End of Boring at 26.0'			
																		27	
																		28	
																		29	
																		30	
																		31	
																		32	
																		33	
																		34	
																		35	
																		36	
																		37	
																		38	
																		39	
																		40	
Move boring 20' onto gravel path 240 degrees az. 10'+ elev. change.																			

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/21/2024** END: **10/21/2024**NORTH: **430236.8** EAST: **1601048.9** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **32.5** CAVED @ _____ TIME: **15:01** DATE: **10/21/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ **17.1** CAVED @ _____ TIME: **09:43** DATE: **10/28/2024** DESC.: **162 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ _____ CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1041.1**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0				BS-1(0.0-10.0) PL=19 LL=23 MC=4.5 USCS=SC-SM P#200=47.4 MD=113.8 pcf OMC=14.8 %		0	Silty, clayey SAND (SC-SM); sand is fine to coarse; gravel is fine; subangular to subrounded, flat, sandstone and siltstone; low plasticity; brown and light brown; dry to moist; loose to medium dense; heterogeneous.	COLLUVIUM.
1.5	S-1	100%	WOH 3			1		
3.0	S-2	100%	6			2		
4.5	S-3	100%	9			3		
6.0	S-4	100%	27			4		
7.5	S-5	100%	10			5		
9.0	S-6	100%	8			6		
10.5	S-7	100%	8			7		
12.0	S-8	100%	8			8		
13.5	S-9	100%	6			9		
15.0	S-10	100%	8			10		
16.5	S-11	100%	WOH 1	S-11/S-12(15.0-18.0) PL=NP MC=14.5 USCS=SM P#200=22.7		15	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine; subangular to subrounded, flat, sandstone and siltstone; brown and light brown; dry to moist; very loose to medium dense; heterogeneous. wet from 16.3 to 16.5; trace clay 20 to 22; trace red sandstone gravel 28 to 35	COLLUVIUM.
18.0	S-12	100%	WOH 4			16		
19.5	S-13	100%	3			17		
			6			18		
			3			19		
			9			20		

two bag samples 0 to 10'

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **2** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/21/2024** END: **10/21/2024**NORTH: **430236.8** EAST: **1601048.9** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **32.5** C CAVED @ _____ TIME: **15:01** DATE: **10/21/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ **17.1** C CAVED @ _____ TIME: **09:43** DATE: **10/28/2024** DESC.: **162 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1041.1**

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%	8 9 9			20		
22.5	S-15	100%	4 6 9			21		
24.0	S-16	100%	11 11 14			22		
25.5	S-17	100%	7 8 9			23		
27.0	S-18	100%	10 10 11			24		
28.5	S-19	100%	WOH 6 9	S-19(27.0-28.5) MC=12.9		25		
30.0	S-20	100%	9 10 8			26		
31.5	S-21	100%	3 7 11			27		
33.0	S-22	100%	11 12 10			28		
34.5	S-23	100%	3 8 8			29		
36.0	S-24	100%	13 16 13			30		
36.3	S-25	100%	50/0.3			31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

two bag samples 0 to 10'

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/23/2024** END: **10/23/2024**NORTH: **430120** EAST: **1601163.6** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **22.3** C CAVED @ _____ TIME: **12:10** DATE: **10/23/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ **21.7** C CAVED @ _____ TIME: **09:32** DATE: **10/28/2024** DESC.: **117 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1024.5**

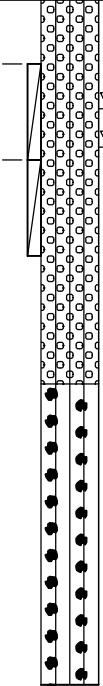
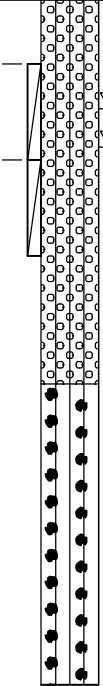
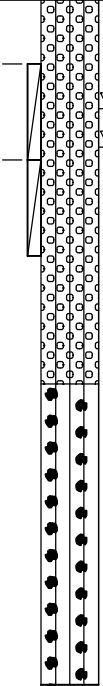
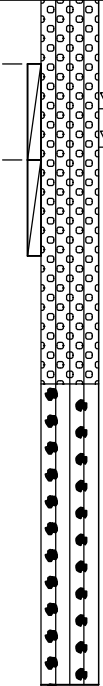
SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	100%	WOH 2	S-1/S-2/S-3/S-4(0.0-6.0) PL=19 LL=27 MC=14.2 USCS=SC P#200=40.8		0	Clayey SAND with gravel (SC); sand is fine; gravel is coarse to fine, angular, flat, sandstone and siltstone; low plasticity; brown and dark brown; dry; loose to dense; heterogeneous.	COLLUVIUM.
1.5	S-2	100%	4			1		
3.0	S-3	100%	10			3		
4.5	S-4	100%	10			4		
6.0	S-5	100%	4			6	Silty SAND (sm); sand is fine, angular, flat, sandstone; brown and gray; moist; medium dense; heterogeneous.	COLLUVIUM.
7.5	S-6	100%	5			7		
9.0	S-7	100%	5			9		
10.5	S-8	100%	9			11		
12.0	S-9	100%	5			12	LEAN CLAY with sand (CL); sand is fine to coarse; medium plasticity; dark gray; moist; +PL; very stiff; homogeneous.	RESIDUAL.
13.5	S-10	100%	4			13		
15.0	S-11	100%	7			15		
16.5	S-12	100%	5			17		
18.0	S-13	100%	7			18		
19.5			8			19		
20.0			11			20	20.0' - EL 1004.5	

collected 2 Shelby tubes from 16-18 and 18-20.

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **2** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/23/2024** END: **10/23/2024**NORTH: **430120** EAST: **1601163.6** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **22.3** C CAVED @ _____ TIME: **12:10** DATE: **10/23/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ **21.7** C CAVED @ _____ TIME: **09:32** DATE: **10/28/2024** DESC.: **117 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ _____ C CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1024.5**

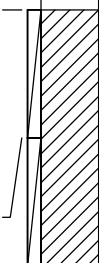
SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
21.0	S-14	100%	WOH 6 10	S-15(21.0-22.5) MC=21		20	Silty SAND (sm); sand is fine to medium, angular, flat, sandstone; gray; wet; medium dense; homogeneous.	RESIDUAL.
22.5	S-15	100%	WOH 6 6			21		
24.0	S-16	100%	WOH 7 12	S-16(22.5-24.0) MC=18.3		22	Silty GRAVEL with sand (gm); sand is fine; gravel is fine to coarse, angular, flat, siltstone; light gray; moist; medium dense to very dense; homogeneous.	WEATHERED SILTSTONE.
25.5	S-17	100%	5 6 9			23		
27.0	S-18	100%	WOH 8 10			24	26.0' - EL 998.5	
28.5	S-19	100%	12 25 18			25		
30.0	S-20	100%	13 20 29			26	30.7' - EL 993.8	
30.7	S-21	100%	22 50/0.3			27		
						28	End of Boring at 30.7'	
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

collected 2 Shelby tubes from 16-18 and 18-20.

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/23/2024** END: **10/23/2024**NORTH: **430120** EAST: **1601163** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** CAVED @ _____ TIME: **13:00** DATE: **10/23/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ _____ CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ ELEV. DATUM: **NAVD88**▽ H₂O @ _____ CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1024.5**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	Unsamped.	
						1		
						2		
						3		
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		
						13		
						14		
						15		
16.0						16	16.0' - EL 1008.5	
	ST-1	100%		ST-1(16.0-18.0) PPen=1.75 PL=24 LL=38 MC=26.1 USCS=CL P#200=76.1		16	LEAN CLAY with sand (CL); sand is fine to coarse; medium plasticity; dark gray; moist; +PL; very stiff; homogeneous. Pushed ST-1 at pressure 500 psi	RESIDUAL.
18.0						17		
	ST-2	100%		ND=92.8 pcf DS Phi=24.7 deg. DS C=394 psf ST-2(18.0-20.0) PPen=2		18	Pushed ST-2 at pressure 700 psi	
						19		
						20	20.0' - EL 1004.5	
						20	End of Boring at 20.0'	

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**

SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: 10/23/2024 END: 10/23/2024

NORTH: 430120 EAST: 1601163 COORD. DATUM: 3702 - PA South LOGGER: Brian Steffes

STATION: OFFSET: BASELINE: DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**

METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**

▽ H₂O @ Dry C CAVED @ TIME: 13:00 DATE: 10/23/2024 DESC.: 0 Hr. PLUNGE: -90

▽ H₂O @ C CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H₂O @ Ⓒ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1024.5**

CHECKED BY: JML

TEMPLATE=10L BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER 10-1.GLB DATE PRINTED= 2/10/25

[illegible]

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/23/2024** END: **10/23/2024**NORTH: **429689.6** EAST: **1601586.5** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **11.7** CAVED @ _____ TIME: **15:10** DATE: **10/23/2024** DESC.: **0 Hr.** PLUNGE: **-90**▽ H₂O @ _____ CAVED @ **4.7** TIME: **09:24** DATE: **10/28/2024** DESC.: **114 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ _____ CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1002.4**

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		0	TOPSOIL.	
	S-1	100%	2			0.6' - EL 1001.8		
1.5				BS-1(1.0-7.5) PL=20 LL=30 MC=6.6 USCS=SC P#200=46.8		1	Sandy LEAN CLAY (cl); sand is fine to coarse; medium plasticity; mottled orange brown and gray; moist; -PL; medium stiff to very stiff; heterogeneous.	FILL. LAUCUSTRINE.
	S-2	100%	3			2		
			4					
			6					
3.0				S-2(1.5-3.0) PPen=4.5		3	Clayey SAND (SC); sand is fine to coarse; nonplastic; mottled orange brown and gray; low plasticity; moist; medium dense; homogeneous.	
	S-3	100%	5			4		
			7					
			4					
4.5				S-4(4.5-6.0) PPen=2.75		5		
	S-4	100%	4			6	bag sample collected 1.0-7.5.	
			7					
			8					
6.0						6		
	S-5	100%	4			7		
			6					
7.5				S-6(7.5-9.0) MC=20.6		8		
	S-6	100%	7			9	sand lens at 7.9-8.0.	
			7					
			8					
9.0				S-7/S-8(9.0-12.0) PL=NP MC=10.9 USCS=SM P#200=14.7		9	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine to coarse, angular, flat, shale; nonplastic; light gray; dry to wet; dense to very dense; homogeneous.	RESIDUAL.
	S-7	100%	14			10		
			21					
			26					
10.5						11	some wet lenses 11-12.	
	S-8	100%	16			12		
			9					
			14					
12.0						12		
	S-9	67%	20					
			50/0.1					
12.6						13	End of Boring at 12.6'	
						14		
						15		
						16		
						17		
						18		
						19		
						20		

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TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**

SHEET: 1 OF 1

LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/22/2024** END: **10/22/2024**

NORTH: **429344.4** EAST: **1601925.7** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**

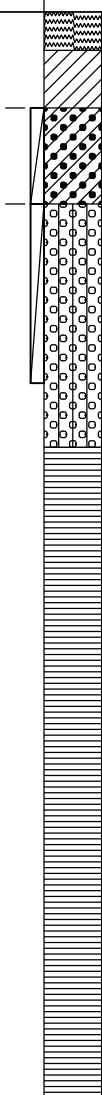
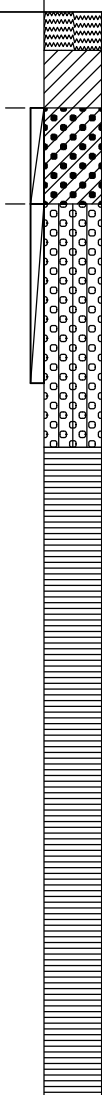
STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: CME 45 C Track Rig DRILL CO.: Penn Drill

METHOD DETAILS: 3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.

▽ H₂O @ Dry C CAVED @ TIME: 09:00 DATE: 10/22/2024 DESC.: Before core PLUNGE: -90

▽ H₂O @ 3 CAVED @ _____ TIME: 10:42 DATE: 10/22/2024 DESC.: 0 Hr. ELEV. DATUM: NAVD88

▼ H₂O @ _____ CAVED @ **4.8** TIME: **09:15** DATE: **10/28/2024** DESC.: **130 Hr.** GROUND ELEV.: **1002**

CHECKED BY: JML																					
SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS													
0.0						0	TOPSOIL.														
	S-1	100%	2 3 6	S-2(1.5-3.0) MC=12.1		0.6' - EL 1001.4	Sandy LEAN CLAY (cl); sand is fine to coarse; medium plasticity; dark brown; moist; -PL; stiff; heterogeneous.	Disturbed Agricultural Soil.													
1.5	S-2	100%	7 7 8			1.5' - EL 1000.5	Clayey SAND (sc); sand is fine to coarse; nonplastic; dark brown; moist; medium dense; heterogeneous.	Disturbed Agricultural Soil.													
3.0	S-3	100%	21 17 18	S-3/S-4(3.0-5.8) PL=NP MC=9.1 USCS=SM P#200=22.6		3.0' - EL 999.0	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine to coarse; angular; flat; shale; nonplastic; dark brown, grayish; moist; very dense; homogeneous.	RESIDUAL.													
4.5	S-4	100%	37 50 50/0.3																		
5.8	A-N																				
6.0	S-5	100%	50 50/0.3																		
6.8							6.8' - EL 995.2														
	R-1	88%	(0%)				SHALE; dark gray; very weak rock; highly weathered to moderately weathered; thinly laminated to laminated; RD=<5 deg.; extremely close fractures to very close fractures; RD=<5 deg.; Unit RQD = 0%.														
8.5																					
	R-2	84%	(0%)																		
13.5																					
	R-3	100%	(0%)																		
17.0							17.0' - EL 985.0														
							End of Boring at 17.0'														
</																					

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/18/2024** END: **10/18/2024**NORTH: **428938.9** EAST: **1602323.9** COORD. DATUM: **3702 - PA South** LOGGER: **John Laux**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** C CAVED @ _____ TIME: **10:15** DATE: **10/18/2024** DESC.: **Before core** PLUNGE: **-90**▼ H₂O @ **3.7** C CAVED @ _____ TIME: **12:18** DATE: **10/18/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ **4.4** C CAVED @ _____ TIME: **08:55** DATE: **10/28/2024** DESC.: **236 Hr.** GROUND ELEV.: **979.5**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0				S-1/S-2(0.0-3.0) PL=21 LL=33 MC=12 USCS=SC P#200=30.5		0	TOPSOIL.	
	S-1	47%	2			0.3'	0.3' - EL 979.2	COLLUVIUM.
1.5				BS-1(0.0-9.0) PL=20 LL=26 MC=4 USCS=SC-SM P#200=44.1 MD=113.3 pcf OMC=14.2 %		1	Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine to coarse, subangular; medium plastic; light brown; moist; loose to medium dense; heterogeneous.	Bag samples BG-1 0.0'-9.0'
	S-2	100%	4			2		
3.0						3		
	S-3	100%	7			4		
4.5				S-2(1.5-3.0) PPen=4.5		5		
	S-4	100%	8			6		
6.0				S-3(3.0-4.5) PPen=2.75		7		
	S-5	100%	9			8		
7.5				S-4(4.5-6.0) MC=15.5		9		
	S-6	100%	17			10		
9.0						11		
9.3	S-7	100%	50/0.3			12		
	R-1	76%	(0%)			13		
13.0						14		
	R-2	100%	(14%)			15		
18.0				R-2(17.1-17.4) Qu=2498 psi		16		
	R-3	85%	(0%)			17		
						18		
						19		
						20		
						20.0'	20.0' - EL 959.5	
							End of Boring at 20.0'	

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PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **2** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/18/2024** END: **10/18/2024**NORTH: **428938.9** EAST: **1602323.9** COORD. DATUM: **3702 - PA South** LOGGER: **John Laux**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **10:15** DATE: **10/18/2024** DESC.: **Before core** PLUNGE: **-90**▽ H₂O @ **3.7** C CAVED @ _____ TIME: **12:18** DATE: **10/18/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ **4.4** C CAVED @ _____ TIME: **08:55** DATE: **10/28/2024** DESC.: **236 Hr.** GROUND ELEV.: **979.5**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
20.0						20		
						21		
						22		
						23		
						24		
						25		
						26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

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TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/18/2024** END: **10/18/2024**NORTH: **430676.7** EAST: **1601228.4** COORD. DATUM: **3702 - PA South** LOGGER: **Dave Gaviglia**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** C CAVED @ _____ TIME: **09:27** DATE: **10/18/2024** DESC.: **Before core** PLUNGE: **-90**▼ H₂O @ **13** C CAVED @ _____ TIME: **12:31** DATE: **10/18/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ **12.9** C CAVED @ _____ TIME: **10:08** DATE: **10/28/2024** DESC.: **237 Hr.** GROUND ELEV.: **1048.6**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	87%	4 5 3	S-2(1.5-3.0) MC=8.4		0	Silty SAND with gravel (sm); sand is fine; gravel is coarse, angular, flat and elongated, sandstone; light brown and brown; dry; medium dense to dense; heterogeneous.	RESIDUAL.
1.5	S-2	100%	14 15 20			1		
3.0	S-3	100%	15 14 12			3		
4.5	S-4	100%	16 12 11	S-3/S-4/S-5(3.0-7.5) PL=23 LL=34 MC=13.1 USCS=SC P#200=34.5		3	Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine, angular, flat and elongated, siltstone; medium plasticity; light brown and brown; dry; dense to very dense; homogeneous.	RESIDUAL.
6.0	S-5	100%	11 14 12			4		
7.5	S-6	100%	9 50 50/0.0			5		
8.5	R-1	56%	(0%)			6	CLAYSTONE, fine grained; brown; extremely weak rock; residual soil; indistinct bedding; very close fractures; RD=30 deg; Unit RQD = 0%.	
11.0	R-2	88%	(0%)			7		
16.0	R-3	60%	(0%)			8		
18.5						9	SANDSTONE, fine grained; light gray; very strong rock; fresh; thinly laminated to laminated; RD=<5 deg. to 20 deg.; very close fractures to moderate fractures; RD=30 deg.; Unit RQD = 0%.	
						10	CLAYSTONE, fine grained; brown and red; extremely weak rock to weak rock; completely weathered to moderately weathered; indistinct bedding; very close fractures to close fractures; RD=10 deg. to 40 deg.; Unit RQD = 0%.	
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/23/2024** END: **10/24/2024**NORTH: **430419** EAST: **1601495.3** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **10:26** DATE: **10/24/2024** DESC.: **Before core** PLUNGE: **-90**▽ H₂O @ **12.7** C CAVED @ _____ TIME: **11:00** DATE: **10/24/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ **16.4** C CAVED @ _____ TIME: **09:36** DATE: **10/28/2024** DESC.: **107 Hr.** GROUND ELEV.: **1005.5**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	40%	4	S-2/S-3/S-4(1.5-6.0) PL=NP MC=18.1 USCS=ML P#200=50.4		0	Sandy SILT (ML); sand is fine to coarse, angular, flat, siltstone; brown and gray; dry; medium stiff to stiff; heterogeneous.	COLLUVIUM.
1.5	S-2	87%	4			1		
3.0	S-3	100%	4			2		
4.5	S-4	100%	6			3		
6.0	S-5	100%	3			4		
7.5	S-6	67%	12			5		
9.0	S-7	100%	8			6	7.0' - EL 998.5	RESIDUAL.
10.5	S-8	100%	19			7		
12.0	S-9	100%	13			8		
13.5	S-10	100%	11			9		
15.0	S-11	100%	20			10		
16.5	S-12	100%	20			11		
18.0	S-13	100%	27			12		
19.5						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

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TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

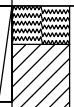
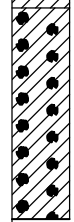
PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **2** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/23/2024** END: **10/24/2024**NORTH: **430419** EAST: **1601495.3** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Mike Shonts**EQUIPMENT: **Acker XLS Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. 2.5 in denison sampler. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** C CAVED @ _____ TIME: **10:26** DATE: **10/24/2024** DESC.: **Before core** PLUNGE: **-90**▼ H₂O @ **12.7** C CAVED @ _____ TIME: **11:00** DATE: **10/24/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ **16.4** C CAVED @ _____ TIME: **09:36** DATE: **10/28/2024** DESC.: **107 Hr.** GROUND ELEV.: **1005.5**

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%	18 21 28			20		
21.6	S-15	100%	46 50/0.1			21	21.6' - EL 983.9	
	R-1	68%	(0%)			22	SANDSTONE; gray; medium strong rock to strong rock; moderately weathered to slightly weathered; thinly bedded; RD=<5 deg.; close fractures; RD=<5 deg.; Unit RQD = 0%. clay seam 22.4-22.6.	
						23	23.1' - EL 982.4	
						24	SILTSTONE; gray; medium strong rock to strong rock; highly weathered to fresh; laminated; RD=<5 deg.; extremely wide fractures to very wide fractures; RD=<5 deg.; Unit RQD = 25%. Highly weathered in upper 3 ft.	
26.0						25		
						26		
						27		
						28		
	R-2	98%	(40%)	R-2(28.7-29.1) Qu=2839 psi		29		
						30		
31.0						31	31.0' - EL 974.5	
						32	End of Boring at 31.0'	
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

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PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/23/2024** END: **10/23/2024**NORTH: **429987.7** EAST: **1601941.9** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** CAVED @ _____ TIME: **12:04** DATE: **10/23/2024** DESC.: **0 Hr.** PLUNGE: **-90**▼ H₂O @ _____ CAVED @ **2.4** TIME: **09:22** DATE: **10/28/2024** DESC.: **117 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ _____ CAVED @ _____ TIME: _____ DATE: _____ DESC.: _____ GROUND ELEV.: **1004**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0			2	S-1(0.0-1.5) PPen=2.25		0	TOPSOIL.	Disturbed Agricultural Soil.
	S-1	100%	2			0.6' - EL 1003.4		
1.5			3				Sandy LEAN CLAY (cl); sand is fine to coarse; low plasticity; mottled orange brown and gray ; moist; -PL; medium stiff to stiff; heterogeneous.	
	S-2	100%	8			2		
3.0			6					
	S-3	100%	7			3		
			10			4		RESIDUAL.
4.5			11			4.5' - EL 999.5		
	S-4	100%	13				Clayey GRAVEL with sand (gc); sand is fine to coarse; gravel is fine to coarse, angular, flat, shale; nonplastic; light gray; dry to wet; dense to very dense; homogeneous.	
			10			5		
6.0			13					
	S-5	100%	32			6		
			50/0.4			7		
7.4	A-N	100%	50/0.3			7.8' - EL 996.2		
7.5								
7.8	S-6					8	End of Boring at 7.8'	
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

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TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **1**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/21/2024** END: **10/21/2024**NORTH: **429729.1** EAST: **1602209.7** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** C CAVED @ _____ TIME: **15:00** DATE: **10/21/2024** DESC.: **Before core** PLUNGE: **-90**▼ H₂O @ **3.1** C CAVED @ _____ TIME: **16:00** DATE: **10/21/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ **3.9** C CAVED @ _____ TIME: **09:18** DATE: **10/28/2024** DESC.: **161 Hr.** GROUND ELEV.: **1002**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0				S-1/S-2/S-3(0.0-4.5) PL=20 LL=29 MC=17.3 USCS=CL P#200=51.6 S-2(1.5-3.0) PPen=2		0	TOPSOIL.	
	S-1	100%	2			0.6' - EL 1001.4		
1.5	S-2	100%	2			1	Sandy LEAN CLAY (CL); sand is fine to coarse; low plasticity; dark brown; moist; -PL; medium stiff to very stiff; heterogeneous.	Disturbed Agricultural Soil.
3.0	S-3	100%	8	S-3(3.0-4.5) PPen=3.25		3		
4.5	S-4	100%	24			5.0' - EL 997.0		
5.5	A-N		50			5	Clayey GRAVEL with sand (gc); sand is fine to coarse; gravel is fine to coarse, angular, flat, shale; nonplastic; dark brown, grayish; moist; very dense; homogeneous.	RESIDUAL.
6.0	S-5	100%	50/0.3			6		
6.3						6.3' - EL 995.7		
	R-1	100%	(0%)			7	SHALE; dark gray; very weak rock; highly weathered to slightly weathered; thinly laminated to laminated; RD=<5 deg.; extremely close fractures to very close fractures; RD=<5 deg.; Unit RQD = 0%.	
8.0						8		
	R-2	74%	(0%)			9.4' - EL 992.6		
						10	CLAYSTONE; light gray; extremely weak rock; completely weathered; very close fractures to close fractures; RD=<5 deg.; Unit RQD = 0%.	
13.0	R-3	70%	(0%)			11		
16.0	R-4	100%	(0%)			12		
						13	strengthening, grading into siltstone at 16.0.	
18.0						14		
						15		
						16		
						17		
						18.0' - EL 984.0		
						18	End of Boring at 18.0'	
						19		
						20		

CHECKED BY: JML

TEMPLATE=10L_BORING PROJECT=HCR - RURA PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 2/10/25

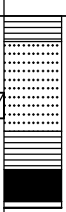
PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **1** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/21/2024** END: **10/21/2024**NORTH: **429386.9** EAST: **1602564.1** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▼ H₂O @ **Dry** C CAVED @ _____ TIME: **11:30** DATE: **10/21/2024** DESC.: **Before core** PLUNGE: **-90**▼ H₂O @ **7.1** C CAVED @ _____ TIME: **13:03** DATE: **10/21/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▼ H₂O @ **6.7** C CAVED @ _____ TIME: **08:50** DATE: **10/28/2024** DESC.: **164 Hr.** GROUND ELEV.: **985.3**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	TOPSOIL.	
	S-1	100%	1 3 5			1	LEAN CLAY with sand (cl); sand is fine to coarse; medium plasticity; brown; moist; -PL; stiff; heterogeneous.	Disturbed Agricultural Soil.
1.5	S-2	100%	1 18 12			2		
						2.4' - EL 982.9		
3.0	S-3	100%	9 21 50	S-3/S-4/S-5(3.0-7.5) PL=NP MC=8.8 USCS=SM P#200=23.4		3	Well-graded GRAVEL with silt and sand (gw-gm); sand is fine to coarse; gravel is fine to coarse, angular, sandstone; nonplastic; light brown; dry; medium dense; heterogeneous.	Disturbed Agricultural Soil. RESIDUAL.
4.5	S-4	100%	50 22 49			4		
						3.0' - EL 982.3		
6.0	S-5	100%	37 46 50			5	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine to coarse, angular, flat, shale; nonplastic; dark brown; moist; very dense; homogeneous. Relic rock structure.	
						6	weathered coal laminations in residuum 4.5-6.0.	
7.5	S-6	100%	49 46 33	S-6(7.5-9.0) MC=10.1		7		
						8		
9.0	S-7	100%	25 35 45	S-7(9.0-10.5) MC=6.6		9	Silty SAND with gravel (sm); sand is fine to coarse; gravel is fine to coarse, angular; nonplastic; black and dark gray; moist; very dense; homogeneous.	DECOMPOSED COAL/CARBONACEOUS SHALE. RESIDUAL.
10.5	S-8	100%	49 39 50/0.2			10		
						9.0' - EL 976.3		
11.7	R-1	54%	(0%)			11	Clayey GRAVEL with sand (gc); sand is fine to coarse; gravel is fine to coarse, angular, flat, shale; nonplastic; dark brown, grayish; moist; very dense; homogeneous.	
						11.7' - EL 973.6		
13.0	R-2	100%	(0%)			12	SHALE; dark gray; very weak rock; highly weathered to slightly weathered; thinly laminated to laminated; RD=<5 deg.; extremely close fractures to close fractures; RD=<5 deg. to near vertical; Unit RQD = 0%.	
14.0	R-3	100%	(0%)			13		
16.0	R-4	100%	(0%)			14		
18.0						15		
						16		
						17		
						18		
						19		
						20		

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PROJECT: **Homer City Redevelopment - Rura Pad**SHEET: **2** OF **2**LATITUDE: _____ LONGITUDE: _____ GEO. DATUM: _____ START: **10/21/2024** END: **10/21/2024**NORTH: **429386.9** EAST: **1602564.1** COORD. DATUM: **3702 - PA South** LOGGER: **Dylan Brown**STATION: _____ OFFSET: _____ BASELINE: _____ DRILLER: **Hunter Balmer**EQUIPMENT: **CME 45 C Track Rig** DRILL CO.: **Penn Drill**METHOD DETAILS: **3.5 in ID HSA. 1.375 in ID spoon. Automatic hammer; 140 lb; 30 inch fall; ER = 80%. NQ2 core, split barrel, wireline w/ water.**▽ H₂O @ **Dry** C CAVED @ _____ TIME: **11:30** DATE: **10/21/2024** DESC.: **Before core** PLUNGE: **-90**▽ H₂O @ **7.1** C CAVED @ _____ TIME: **13:03** DATE: **10/21/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**▽ H₂O @ **6.7** C CAVED @ _____ TIME: **08:50** DATE: **10/28/2024** DESC.: **164 Hr.** GROUND ELEV.: **985.3**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
23.0	R-5	100%	(10%)	R-5(21.2-21.6) Qu=6531 psi		20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	20.4' - EL 964.9 SANDSTONE; light gray; weak rock; slightly weathered; thinly bedded; RD=<5 deg.; very close fractures to close fractures; RD=<5 deg.; Unit RQD = 36%. 21.8' - EL 963.5 SHALE; dark gray; very weak rock; highly weathered to slightly weathered; thinly laminated to laminated; RD=<5 deg.; extremely close fractures to close fractures; RD=<5 deg.; Unit RQD = 0%. 22.4' - EL 962.9 COAL; black; extremely weak rock; slightly weathered; thinly bedded; RD=<5 deg.; close fractures; RD=<5 deg.; Unit RQD = 0%. 22.9' - EL 962.4 SHALE; dark gray; very weak rock; highly weathered to slightly weathered; thinly laminated to laminated; RD=<5 deg.; very close; RD=< 5 deg.; Unit RQD = 0%. 23.0' - EL 962.3 End of Boring at 23.0'	

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