Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-01

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/6/2024** END: **11/6/2024**

NORTH: **433461.207** EAST: **1594508.207** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%.**

▽ H_2O @ **Dry** ⊆ CAVED @ TIME: **15:20** DATE: **11/6/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1174.2**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	100%	1 2 6			0	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine to coarse, angular, flat, siltstone; light brown and gray; dry; NP; loose to very dense; homogeneous.	RESIDUAL.
1.5	S-2	100%	6 11 13			1		
3.0	S-3	100%	11 11 12	**S-3/S-4/S-5(3.0-7.5)** PL=NP MC=7.1 USCS=SM AASHTO=A-2-4 P#200=25.62		2 3 4		
4.5	S-4	100%	13 16 14			5		
6.0	S-5	100%	13 14 9			6 7		
7.5	S-6	100%	14 16 13			8		
9.0	S-7	100%	22 22 15			9 10		
10.5	S-8	100%	17 13 12			11		
12.0	S-9	13%	2 2 2	**S-9(12.0-13.5)** MC=5.7		12	loose 12-13.5	
13.5	S-10	100%	6 12 12			13 14		
15.0	S-11	100%	4 5 25			15 16		
16.5	S-12	100%	24 50/0.1			17	17.1' - EL 1157.1	
17.1							End of Boring at 17.1'	
						18 19 20		

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TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-02

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/6/2024** END: **11/6/2024**

NORTH: **433158.179** EAST: **1594141.719** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **14:11** DATE: **11/6/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1184.4**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	87%	2 3 7			0	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine to coarse, angular, flat, sandstone; light brown and brown; dry; NP; medium dense to very dense; homogeous.	RESIDUAL.
1.5	S-2	100%	11 12 14	**S-2/S-3(1.5-4.5)** PL=NP MC=3.1 USCS=SM AASHTO=A-2-4 P#200=15.47		1		
3.0	S-3	100%	18 13 15			2		
4.5	S-4	100%	24 30 23			3		
6.0	S-5	100%	31 28 31			4		
7.5	S-6	100%	20 18 19			5		
9.0	S-7	100%	50/0.2			6		
9.2						7	9.2' - EL 1175.2	
						8	End of Boring at 9.2'	
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-03

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/6/2024** END: **11/7/2024**

NORTH: **433155.129** EAST: **1594531.885** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **15:30** DATE: **11/6/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **15.5** ℄ CAVED @ TIME: **09:11** DATE: **11/7/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1213.9**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	67%	WOH 3 3	**S-1/S-2(0.0-3.0)** PL=25 LL=36 MC=14.3 USCS=ML AASHTO=A-6 (6) P#200=66.49		0	Sandy SILT (ML); sand is fine to coarse; gravel is fine, angular, flat, sandstone; light brown; dry; medium plasticity; medium stiff to hard; homogeneous.	RESIDUAL.
1.5	S-2	100%	6 4 6			1		
3.0	S-3	100%	35 31 23			2		
4.5	S-4	100%	17 31 50/0.1			3		
5.6	R-1	79%	(0%)			4		
7.0	R-2	100%	(0%)			5	5.6' - EL 1208.3	
12.0	R-3	94%	(14%)			6	SANDSTONE, with siltstone; brown and gray; weak rock; moderately weathered to highly weathered; very thinly bedded; RD=<5 deg.; very close fractures; RD=<5 deg. to near vertical; Unit RQD = 0%.	
17.0	R-4	100%	(72%)			7		
						8		
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16	16.3' - EL 1197.6	
						17	SILTSTONE; gray; strong rock; slightly weathered to fresh; very thinly bedded; RD=<5 deg.; moderate fractures; RD=<5 deg. to 30 deg.; Unit RQD = 67%.	
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-03

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/6/2024** END: **11/7/2024**

NORTH: **433155.129** EAST: **1594531.885** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ⊆ CAVED @ TIME: **15:30** DATE: **11/6/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **15.5** ⊆ CAVED @ TIME: **09:11** DATE: **11/7/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1213.9**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
				R-4(20.5-21.3) Qu=15720		20		
22.0	R-5	100%	(50%)			21–24		
25.0						25	25.0' - EL 1188.9 End of Boring at 25.0'	
						26–40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-04

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **3**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/1/2024** END: **11/4/2024**

NORTH: **433017.738** EAST: **1594953.16** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes/Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

∇ H_2O @ **Dry** $\mathcal{C}$ CAVED @ TIME: **10:31** DATE: **11/4/2024** DESC.: **Before core** PLUNGE: **-90**

$\blacktriangledown$ H_2O @ **26** $\mathcal{C}$ CAVED @ TIME: **13:47** DATE: **11/4/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

$\blacktriangledown$ H_2O @ $\mathcal{C}$ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1248.3**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0		
	S-1	100%	3 6 8	**S-1/S-2(0.0-3.0)** PL=25 LL=37 MC=10.5 USCS=ML AASHTO=A-6 (6) P#200=58.61		1	Sandy SILT (ML); sand is fine to coarse; gravel is fine, angular, flat, siltstone; light brown and brown; dry; medium plasicity; very stiff to hard; homogeneous.	RESIDUAL.
1.5	S-2	100%	11 12 23			2		
3.0						3	3.0' - EL 1245.3	
	S-3	100%	22 26 25			4	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine to coarse, angular, flat, siltstone; gray and brown; dry; NP; dense to very dense; homogeneous.	WEATHERED SILTSTONE.
4.5	S-4	100%	36 47 39	**S-4/S-5/S-6(4.5-9.0)** PL=25 LL=30 MC=6.6 USCS=SM AASHTO=A-2-4 (0) P#200=32.87		5		
6.0	S-5	100%	36 27 37			6		
7.5	S-6	100%	20 29 18			7		
9.0	S-7	100%	28 30 28			8		
10.5	S-8	100%	50 50/0.0			9		
11.0	A-N					10		
12.1						11		
	R-1	28%	(0%)			12	12.1' - EL 1236.2	
						13	SILTSTONE; brown; very weak rock to medium strong rock; highly weathered to moderately weathered; thinly laminated; RD=<5 deg.; very close fractures to close fractures; RD=<5 deg.; Unit RQD = 0%.	
						14		
						15		
16.0						16	16.0' - EL 1232.3	
	R-2	100%	(0%)			17	CLAYSTONE; gray; weak rock to medium strong rock; highly weathered to fresh; very thinly bedded; RD=<5 deg.; wide fractures to close fractures; RD=<5 deg. to near vertical; Unit RQD = 0%.	
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-04

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **3**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/1/2024** END: **11/4/2024**

NORTH: **433017.738** EAST: **1594953.16** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes/Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **10:31** DATE: **11/4/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **26** ℄ CAVED @ TIME: **13:47** DATE: **11/4/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1248.3**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
21.0						20		
						21		
						22	22.8' - EL 1225.5	
	R-3	100%	(44%)			23	SILTSTONE, with sandstone; gray; strong rock; slightly weathered to fresh; very thinly bedded to laminated; RD=<5 deg.; moderate fractures to close fractures; RD=<5 deg. to 10 deg.; Unit RQD = 50%.	
				R-3(24.6-25.3) Qu=18510		24		
						25		
26.0						26		
						27		
	R-4	94%	(18%)			28		
						29	29.0' - EL 1219.3	
						30	CLAYSTONE; gray; weak rock; moderately weathered; thinly laminated; RD=<5 deg.; close fractures to moderate fractures; RD=<5 deg. to near vertical; Unit RQD = 0%.	
31.0						31		
						32	31.5' - EL 1216.8	
	R-5	100%	(22%)			33	SANDSTONE, fine grained; gray; strong rock; fresh to slightly weathered; very thinly bedded to laminated; RD=<5 deg.; wide fractures; RD=<5 deg.; Unit RQD = 79%.	
						34		
						35		
36.0						36		
						37		
	R-6	100%	(100%)			38		
						39		
39.7						40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-04

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **3** OF **3**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/1/2024** END: **11/4/2024**

NORTH: **433017.738** EAST: **1594953.16** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes/Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **10:31** DATE: **11/4/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **26** ℄ CAVED @ TIME: **13:47** DATE: **11/4/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1248.3**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
	R-7	100%	(69%)			40		
41.0						41	limestone inclusions 40.8-41.3 broken 42.8-43.2 and 48.0-48.2	
	R-8	100%	(93%)			42		
						43		
						44		
45.0						45		
	R-9	100%	(96%)			46		
						47		
						48		
						49		
50.0						50		
	R-10	100%	(88%)			51		
						52		
						53		
						54		
						55	55.0' - EL 1193.3	
55.0							End of Boring at 55.0'	
						56		
						57		
						58		
						59		
						60		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-05

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/4/2024** END: **11/5/2024**

NORTH: **432928.894** EAST: **1594815.255** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

∇ H_2O @ **Dry** $\subset$ CAVED @ TIME: **15:00** DATE: **11/4/2024** DESC.: **Before core** PLUNGE: **-90**

$\blacktriangledown$ H_2O @ **21.5** $\subset$ CAVED @ TIME: **14:20** DATE: **11/5/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

$\blacktriangledown$ H_2O @ $\subset$ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1233.1**

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%	6 5 6			0	LEAN CLAY with sand (CL); sand is fine to coarse; light brown and brown; dry to moist; medium plasticity; stiff to hard; homogeneous.	RESIDUAL.
1.5	S-2	80%	3 11 15			1		
3.0	S-3	100%	15 13 12	**S-3/S-4/S-5(3.0-7.5)** PL=23 LL=35 MC=12.1 USCS=CL AASHTO=A-6 (10) P#200=82.87		2		
4.5	S-4	100%	15 10 11			3		
6.0	S-5	100%	10 13 12			4		
7.5	S-6	100%	8 9 27			5		
9.0	S-7	100%	50/0.1			6		
9.1	A-N					7	Sandstone gravel below 8 ft.	
10.3	R-1	100%	(42%)			8	10.3' - EL 1222.8 SANDSTONE; brown; very weak rock to medium strong rock; highly weathered to slightly weathered; very thinly bedded; RD=<5 deg.; very close fractures to close fractures; RD=<5 deg. to near vertical; Unit RQD = 20%. Grades to claystone.	
11.5	R-2	50%	(0%)			9	12.5' - EL 1220.6 CLAYSTONE; dark gray; very weak rock to medium strong rock; moderately weathered; thinly bedded; RD=<5 deg.; close fractures to moderate fractures; RD=<5 deg. to near vertical; Unit RQD = 0%.	
16.5	R-3	90%	(0%)			10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-05

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/4/2024** END: **11/5/2024**

NORTH: **432928.894** EAST: **1594815.255** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

∇ H_2O @ **Dry** $\subset$ CAVED @ TIME: **15:00** DATE: **11/4/2024** DESC.: **Before core** PLUNGE: **-90**

$\blacktriangledown$ H_2O @ **21.5** $\subset$ CAVED @ TIME: **14:20** DATE: **11/5/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

$\blacktriangledown$ H_2O @ $\subset$ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1233.1**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
						20	20.5' - EL 1212.6	
21.5	R-4	92%	(66%)			21	SANDSTONE, fine grained; gray; medium strong to strong rock; slightly weathered to fresh; laminated; RD=<5 deg.; close fractures to moderate fractures; RD=<5 deg. to 50 deg.; Unit RQD = 71%. Some siltstone, limestone inclusions, less to none below 30'.	
						22		
						23		
						24		
						25		
26.5	R-5	100%	(91%)			26		
						27		
						28		
						29		
						30		
31.0	R-6	100%	(72%)			31		
						32		
						33		
						34		
				R-6(35.5-36.0) Qu=13910		35		
36.0						36	36.0' - EL 1197.1 End of Boring at 36.0'	
						37		
						38		
						39		
						40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-06

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/5/2024** END: **11/5/2024**

NORTH: **432780.353** EAST: **1594524.445** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **03:00** DATE: **11/5/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **3.2** ℄ CAVED @ TIME: **15:25** DATE: **11/5/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1206.2**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	100%	1 4 7	**S-1/S-2(0.0-3.0)** PL=21 LL=29 MC=11.1 USCS=SC AASHTO=A-4 (0)		0	Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine, angular, flat, sandstone; light brown and brown; moist; NP; medium dense to very dense; homogeneous.	RESIDUAL.
1.5	S-2	80%	4 7 6			1–3		
3.0	S-3	100%	14 27 29			3–4		
4.5	S-4	100%	50/0.2			4		
4.7							4.7' - EL 1201.5	
	R-1	94%	(0%)			5–6	SANDSTONE; brown; very weak rock to medium strong rock; highly weathered to moderately weathered; very thinly bedded; RD=<5 deg.; moderate fractures to very close fractures; RD=<5 deg. to near vertical; Unit RQD = 0%. Highly weathered and very broken 6.5 - 15.4.	
6.5	R-2	38%	(0%)			7–11		
11.5	R-3	40%	(0%)			12–15		
						15	15.4' - EL 1190.8	
15.5	R-4	100%	(8%)			16–18	SANDSTONE, with siltstone; gray; medium strong rock to very strong rock; slightly weathered to fresh; thinly bedded to laminated; RD=<5 deg.; moderate fractures to close fractures; RD=<5 deg. to 30 deg.; Unit RQD = 24%.	
						19–20		

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TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-06

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/5/2024** END: **11/5/2024**

NORTH: **432780.353** EAST: **1594524.445** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

∇ H_2O @ **Dry** $\subset$ CAVED @ TIME: **03:00** DATE: **11/5/2024** DESC.: **Before core** PLUNGE: **-90**

$\blacktriangledown$ H_2O @ **3.2** $\subset$ CAVED @ TIME: **15:25** DATE: **11/5/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

$\blacktriangledown$ H_2O @ $\subset$ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1206.2**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
20.5						20		
						21		
						22		
	R-5	100%	(40%)	**R-5(23.5-24.0)** Qu=12940		23		
						24		
						25	25.5' - EL 1180.7	
25.5						26	End of Boring at 25.5'	
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-07

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/6/2024** END: **11/6/2024**

NORTH: **432587.614** EAST: **1594191.063** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **08:20** DATE: **11/6/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **22.3** ℄ CAVED @ TIME: **09:40** DATE: **11/6/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1194.2**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	93%	WOH 2 3	**S-1(0.0-1.5)** MC=10.9		0	Silty SAND (SM); sand is fine to coarse; gravel is fine, angular, flat; brown; moist; NP; loose to very dense; homogeneous.	RESIDUAL.
1.5	S-2	87%	6 7 27	**S-2/S-3/S-4(1.5-6.0)** PL=NP MC=7.3 USCS=SM AASHTO=A-2-4 (0) P#200=19.28		1		
3.0	S-3	100%	23 24 18			2		
4.5	S-4	100%	15 13 17			3		
6.0	S-5	100%	24 50/0.3			4		
6.8	R-1	98%	(0%)			5	6.8' - EL 1187.4 SANDSTONE, fine grained, medium grained; brown; medium strong rock to weak rock; moderately weathered; very thinly bedded; RD=<5 deg.; close fractures; RD=<5 deg. to near vertical; Unit RQD = 10%.	
11.0	R-2	94%	(0%)			6		
16.0	R-3	100%	(0%)			7		
						8		
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18	Increases mica below 18.5.	
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-07

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/6/2024** END: **11/6/2024**

NORTH: **432587.614** EAST: **1594191.063** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ▷ CAVED @ TIME: **08:20** DATE: **11/6/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **22.3** ▷ CAVED @ TIME: **09:40** DATE: **11/6/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ▷ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1194.2**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
						20	Lost circulation at 20.0	
21.0						21	Weathered more below 21.0.	
	R-4	100%	(33%)			22		
						23		
						24		
25.0						25	25.0' - EL 1169.2 End of Boring at 25.0'	
						26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-08

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/6/2024** END: **11/6/2024**

NORTH: **432474.14** EAST: **1594055.713** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **10:15** DATE: **11/6/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **5.9** ℄ CAVED @ TIME: **11:25** DATE: **11/6/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1185.2**

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	Cobbles; angular, limestone; gray; dry; NP. Roadway, limestone cobbles.	FILL.
						1		
						2		
						3	3.0' - EL 1182.2	
3.0	S-1	100%	50/0.1				Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine, angular, flat, sandstone; brown; dry; NP; dense to very dense; homogeneous.	RESIDUAL.
3.1	A-N					4		
4.5	S-2	100%	18 19 14	**S-2/S-3(4.5-7.5)** PL=NP MC=5.5 USCS=SM AASHTO=A-2-4 (0) P#200=15.17		5		
6.0	S-3	100%	14 13 21			6		
7.5	S-4	100%	40 50/0.3			7		
8.3	A-N					8		
9.0	S-5	100%	50/0.1			9		
9.1	A-N						10.0' - EL 1175.2	
10.0	R-1	100%	(0%)			10	SANDSTONE; brown; medium strong rock; moderately weathered to slightly weathered; thinly bedded; RD=<5 deg.; very close to close fractures; RD=<5 deg. to 30 deg.; Unit RQD = 12%.	
11.0	R-2	98%	(22%)			11		
						12		
						13		
						14		
						15		
16.0	R-3	100%	(22%)			16		
						17		
						18		
						19	19.0' - EL 1166.2	
				R-3(19.8-20.3)		20	SANDSTONE; brown; weak rock; moderately weathered; thinly bedded; RD=<5 deg.; close fractures	

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DATE PRINTED= 3/27/25

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PROJECT=HCR - WEST FIELD PAD.GPJ

TEMPLATE=10L_BORING

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-08

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/6/2024** END: **11/6/2024**

NORTH: **432474.14** EAST: **1594055.713** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

∇ H_2O @ **Dry** $\subset$ CAVED @ TIME: **10:15** DATE: **11/6/2024** DESC.: **Before core** PLUNGE: **-90**

$\blacktriangledown$ H_2O @ **5.9** $\subset$ CAVED @ TIME: **11:25** DATE: **11/6/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

$\blacktriangledown$ H_2O @ $\subset$ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1185.2**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
				Qu=1430		20	to moderate fractures; RD=<5 deg. to 30 deg.; Unit RQD = 62%.	
21.0	R-4	80%	(65%)			21		
						22		
						23		
						24		
25.0						25	25.0' - EL 1160.2 End of Boring at 25.0'	
						26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-09

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/6/2024** END: **11/6/2024**

NORTH: **432179.517** EAST: **1594158.448** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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%.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **10:50** DATE: **11/6/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1140.9**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0		
	S-1	93%	1 2 3			1	Silty SAND (SM); sand is fine to coarse; nonplastic; brown and tan; dry to moist; loose to medium dense; heterogeneous.	COLLUVIUM.
1.5				**S-2/S-3(1.5-4.5)** PL=23 LL=30 MC=14.2 USCS=SM AASHTO=A-4 (1) P#200=46.96		2		
	S-2	100%	3 7 8			3		
3.0						4		
	S-3	100%	7 8 5			5		
4.5								
	S-4	100%	11 7 8			6	6.0' - EL 1134.9	
6.0				**S-5/S-6/S-7(6.0-10.5)** PL=20 LL=27 MC=13.8 USCS=SC-SM AASHTO=A-4 (1) P#200=45.53			Silty, clayey SAND (SC-SM); sand is fine to coarse; nonplastic; brown and tan; dry to moist; medium dense; heterogeneous.	
	S-5	73%	6 5 7			7		
7.5						8		
	S-6	100%	4 7 6			9		
9.0						10		
	S-7	100%	6 4 5			11		
10.5								
	S-8	100%	4 6 6			12		
12.0						13	13.0' - EL 1127.9	
	S-9	80%	7 9 10				Poorly-graded GRAVEL with sand (gp); sand is fine to coarse; gravel is fine, sandstone; nonplastic; gray; dry; dense; homogeneous.	RESIDUAL.
13.5						14		
	S-10	100%	14 17 19				15.0' - EL 1125.9	
15.0						15	End of Boring at 15.0'	
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-10

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/7/2024** END: **11/7/2024**

NORTH: **432392.579** EAST: **1594655.493** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%.**

▽ H_2O @ **Dry** ▷ CAVED @ TIME: **14:00** DATE: **11/7/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ▷ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ▷ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1172.2**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0		
	S-1	60%	WOH 4 7			1	Clayey SAND (SC); sand is fine to coarse; nonplastic; brown and gray; moist; NP; loose to medium dense, homogeneous.	RESIDUAL.
1.5								
	S-2	100%	11 8 6			2		
3.0				**S-3/S-4/S-5(3.0-7.5)** PL=19 LL=28 MC=16.6 USCS=SC AASHTO=A-4 (2)		3		
	S-3	100%	1 2 3					
4.5						4		
	S-4	100%	4 5 4			5		
6.0						6		
	S-5	100%	2 4 5			7		
7.5				**S-6/S-7(7.5-10.5)** MC=15.5		8	Increased grain size below 7.5.	
	S-6	100%	6 7 8					
9.0						9	Iron concretions/rust color below 9.0; and black mottlles.	
	S-7	100%	9 9 7			10		
10.5						11		
	S-8	100%	11 7 9					
12.0						12	12.0' - EL 1160.2	
	S-9	100%	32 38 50/0.4			13	Silty SAND with gravel (sm); sand is fine; gravel is fine to coarse, subangular; nonplastic; brown and gray; moist; NP; very dense, homogeneous.	WEATHERED SANDSTONE.
13.4							13.4' - EL 1158.8	
						14	End of Boring at 13.4'	
						15		
						16		
						17		
						18		
						19		
						20		

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TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-11

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/7/2024** END: **11/7/2024**

NORTH: **432584.713** EAST: **1595203.17** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **12:10** DATE: **11/7/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **12.8** ℄ CAVED @ TIME: **15:10** DATE: **11/7/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1212.2**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	87%	3 4 4			0	LEAN CLAY with sand (CL); sand is fine to coarse, angular; brown and gray; dry; medium plasticity; medium stiff to hard; homogeneous.	RESIDUAL.
1.5	S-2	100%	3 8 6	**S-2/S-3(1.5-4.5)** PL=22 LL=39 MC=15.4 USCS=CL AASHTO=A-6 (12) P#200=76.17		1 2	Mottled below 1.5.	
3.0	S-3	100%	10 9 12			3 4		
4.5	S-4	100%	12 11 13	**S-4/S-5(4.5-7.5)** MC=12.8		5	Some black 4.5-6.	
6.0	S-5	100%	9 10 12			6 7		
7.5	S-6	100%	14 10 11			8		
9.0	S-7	100%	5 4 3	**S-7(9.0-10.5)** MC=14.6		9 10	Wet at 10.3, sandstone in S-7 spoon tip.	
10.5	S-8	100%	5 22 50/0.1			11	11.6' - EL 1200.6	
11.6	R-1	100%	(0%)			12 13	SILTSTONE; brown; weak rock; highly weathered; laminated; RD=<5 deg.; very close fractures; RD=<5 deg. to near vertical; Unit RQD = 0%.	
14.2	R-2	100%	(20%)			14 15	14.2' - EL 1198.0 SANDSTONE, fine grained; light gray; strong rock; moderately weathered to fresh; thinly bedded; RD=<5 deg.; moderate fractures to close fractures; RD=<5 deg. to 20 deg.; Unit RQD = 64%.	
16.2	R-3	100%	(56%)	**R-3(17.3-17.8)** Qu=13620		16 17 18 19 20		

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TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-11

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/7/2024** END: **11/7/2024**

NORTH: **432584.713** EAST: **1595203.17** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **12:10** DATE: **11/7/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **12.8** ℄ CAVED @ TIME: **15:10** DATE: **11/7/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1212.2**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
21.2						20		
	R-4	92%	(82%)			21		
						22		
						23		
						24		
25.0						25	25.0' - EL 1187.2 End of Boring at 25.0'	
						26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-12

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/11/2024** END: **11/11/2024**

NORTH: **432335.959** EAST: **1595387.141** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **13:45** DATE: **11/11/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **6.3** ℄ CAVED @ TIME: **15:00** DATE: **11/11/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1208.3**

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%	2 4 3			0	Sandy LEAN CLAY (CL); sand is fine to coarse; light gray and gray; dry to moist; medium plasticity; medium stiff to hard; homogeneous. Some mottling.	RESIDUAL.
1.5	S-2	100%	1 5 14	**S-2/S-3(1.5-4.5)** PL=22 LL=33 MC=12 USCS=CL AASHTO=A-6 (5) P#200=63.97		1		
3.0	S-3	100%	13 11 14			2 3 4		
4.5	S-4	100%	11 24 28			5		
6.0	S-5	100%	11 18 50/0.2			6		
7.2	R-1	100%	(21%)			7	7.2' - EL 1201.1 SILTSTONE; gray and brown; weak rock to very weak rock; moderately weathered to highly weatheredindistinct; RD=<5 deg.; close fractures to very close fractures; RD=<5 deg. to 70 deg.; Unit RQD = 20%. Limestone inclusions and iron staining throughout.	
11.0	R-2	90%	(44%)			8 9 10 11 12 13	13.5' - EL 1194.8 SANDSTONE; gray; strong rock to very strong rock; fresh to slightly weathered; very thinly bedded; RD=<5 deg.; moderate fractures; RD=<5 deg.; Unit RQD = 70%.	
16.0	R-3	100%	(94%)			14 15 16 17 18 19 20		

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TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-12

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/11/2024** END: **11/11/2024**

NORTH: **432335.959** EAST: **1595387.141** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ⊆ CAVED @ TIME: **13:45** DATE: **11/11/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **6.3** ⊆ CAVED @ TIME: **15:00** DATE: **11/11/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1208.3**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
21.0						20		
	R-4	83%	(80%)			21		
						22		
						23		
						24		
25.0						25	25.0' - EL 1183.3 End of Boring at 25.0'	
						26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-13

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **10/31/2024** END: **11/1/2024**

NORTH: **432055.939** EAST: **1594942.951** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes/John Laux**

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

EQUIPMENT: **CME 45 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_2O @ **Dry** ℄ CAVED @ TIME: **10:40** DATE: **10/31/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **2.7** ℄ CAVED @ TIME: **12:25** DATE: **11/1/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1214**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	100%	2 3 5	**S-1(0.0-1.5)** MC=28.9	0	Silty SAND with gravel (sm); sand is fine to coarse; gravel is fine, angular, flat, siltstone; light brown and brown; dry; NP; medium dense to very dense, homogeneous.	WEATHERED SILTSTONE.
1.5	S-2	100%	13 20 11		1		
3.0	S-3	100%	20 50/0.2		2		
3.7	A-N				3		
4.5	R-1	80%	(0%)		4	4.5' - EL 1209.5 SANDSTONE; brown; strong rock to medium strong rock; moderately weathered; very thinly bedded; RD=<5 deg.; close fractures; RD=<5 deg.; Unit RQD = 0%.	
7.5	R-2	82%	(0%)		5	5.5' - EL 1208.5 SILTSTONE; brown; medium strong rock to weak rock; moderately weathered to highly weathered; very thinly bedded; RD=<5 deg.; close fractures; RD=<5 deg. Unit RQD = 0%.	
12.5	R-3	100%	(0%)		6	9.1' - EL 1204.9 SANDSTONE; light gray; medium strong rock; slightly weathered; very thinly bedded; RD=<5 deg.; close fractures; RD=<5 deg.; Unit RQD = 0%.	
17.5					7	10.0' - EL 1204.0 CLAYSTONE, with siltstone; gray, brownish; very weak rock to weak rock; moderately weathered; laminated; RD=<5 deg.; extremely close fractures to close fractures; RD=<5 deg.; Unit RQD = 0%. extremeley weak rock at 10.0-11.3', 14.9-15.3', 16.6-16.9'. highly broken rock at 12.5-14.9'.	
					8	18.5' - EL 1195.5 SANDSTONE, fine grained; gray; medium strong rock; fresh to slightly weathered; very thinly bedded; RD=<5 deg.; close fractures to moderate fractures; RD=<5 deg.; Unit RQD = 62%.	

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-13

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **10/31/2024** END: **11/1/2024**

NORTH: **432055.939** EAST: **1594942.951** COORD. DATUM: **3702 - PA South** LOGGER: **Brian Steffes/John Laux**

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

EQUIPMENT: **CME 45 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_2O @ **Dry** ℄ CAVED @ TIME: **10:40** DATE: **10/31/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **2.7** ℄ CAVED @ TIME: **12:25** DATE: **11/1/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1214**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
	R-4	88%	(62%)			20		
						21		
						22		
22.5						23	23.5' - EL 1190.5 Soft clay seam at 23.4'. LIMESTONE; gray; medium strong rock to strong rock; fresh; very thinly bedded; RD=<5 deg.; close fractures to moderate fractures; RD=<5 deg.; Unit RQD = 65%. Vertical fracture at 24.8-25.1'.	
	R-5	98%	(50%)			24		
						25		
						26	25.5' - EL 1188.5 SANDSTONE, with siltstone; gray; weak rock to strong rock; fresh to slightly weathered; very thinly bedded; RD=<5 deg.; close fractures to moderate fractures; RD=<5 deg.; Unit RQD = 76%. Staining on joints throughout. . Vertical fracture at 26.9-27.1'.	
27.5						27		
	R-6	100%	(88%)	**R-4(29.1-29.7)** Qu=11900		28		
						29		
30.0						30	30.0' - EL 1184.0 End of Boring at 30.0'	
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-14

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/4/2024** END: **11/4/2024**

NORTH: **431860.406** EAST: **1594654.422** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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_2O @ **Dry** ℄ CAVED @ TIME: **12:00** DATE: **11/4/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **7.2** ℄ CAVED @ TIME: **16:00** DATE: **11/4/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1208.8**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	TOPSOIL.	
							0.2' - EL 1208.6	RESIDUAL.
	S-1	100%	2 8 14	**S-1/S-2(0.0-3.0)** PL=24 LL=31 MC=10 USCS=SM AASHTO=A-2-4 (0) P#200=33.63		1	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine, weathered siltstone; nonplastic; tan and brown; dry to moist; medium dense to very dense; homogeneous.	
1.5	S-2	100%	16 22 28			2		
3.0	S-3	100%	40 50/0.2			3		
3.7	A-N					4		
4.5	S-4	100%	50 50/0.0			5	5.0' - EL 1203.8	
5.0	R-1	27%	(0%)			6	SILTSTONE, with sandstone; gray and dark gray; weak rock; highly weathered; very thinly bedded; RD=<5 deg.; broken to close fractures; Unit RQD = 0%. Iron staining.	
						7		
8.0	R-2	45%	(0%)			8		
						9		
10.0	R-3	77%	(0%)			10	10.0' - EL 1198.8	
							CLAYSTONE; gray and brown; very weak rock; highly weathered; very thickly bedded; blocky; broken to close fractures; Unit RQD = 0%.	
13.0	R-4	50%	(8%)			11		
						12		
						13		
						14		
						15		
						16		
						17	17.0' - EL 1191.8	
18.0						18	SILTSTONE; gray; weak rock; moderately weathered; very thinly bedded; RD=<5 deg.; broken to moderate fractures; Unit RQD = 38%.	
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-14

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/4/2024** END: **11/4/2024**

NORTH: **431860.406** EAST: **1594654.422** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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_2O @ **Dry** ⊆ CAVED @ TIME: **12:00** DATE: **11/4/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **7.2** ⊆ CAVED @ TIME: **16:00** DATE: **11/4/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1208.8**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
	R-5	100%	(40%)			20–21	Vertical fracture 21.3 to 22.0.	
23.0	R-6	100%	(30%)			22–24		
25.0						25	25.0' - EL 1183.8 End of Boring at 25.0'	
						26–40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-15

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/5/2024** END: **11/6/2024**

NORTH: **431563.017** EAST: **1594289.504** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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_2O @ **Dry** ℄ CAVED @ TIME: **16:00** DATE: **11/5/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **4.7** ℄ CAVED @ TIME: **12:00** DATE: **11/6/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1173.6**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0		
	S-1	100%	2 4 3	**S-1/S-2(0.0-3.0)** MC=17.1		1	Silty SAND with gravel (sm); sand is fine to medium; gravel is fine, siltstone and sandstone; nonplastic; tan and brown; dry; loose to medium dense; homogeneous.	RESIDUAL.
1.5	S-2	73%	2 2 2			2		
3.0	S-3	73%	4 4 6			3		
						4	4.0' - EL 1169.6	
4.5	S-4	100%	8 4 3			4	Silty SAND and gravel (SM); sand is fine to coarse; gravel is fine to coarse, sandstone; nonplastic; tan and brown; dry; loose to very dense; homogeneous.	RESIDUAL.
6.0	S-5	67%	4 2 4	**S-5/S-6/S-7(6.0-10.5)** PL=NP MC=11.1 USCS=SM AASHTO=A-2-4 (0) P#200=18.96		6		
7.5	S-6	67%	5 5 5			7		
9.0	S-7	100%	3 4 2			8		
						9		
10.5	S-8	100%	28 50/0.2			10		
11.2						11	11.2' - EL 1162.4	
	R-1	91%	(0%)			12	SANDSTONE; brown gray and light gray; weak rock to medium strong rock; highly weathered; very thinly bedded; RD=<5 deg.; broken to moderate fractures; Unit RQD = 18%. Iron staining.	
13.5						13		
	R-2	100%	(0%)			14		
						15		
						16		
						17		
						18		
18.5						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-15

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/5/2024** END: **11/6/2024**

NORTH: **431563.017** EAST: **1594289.504** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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_2O @ **Dry** ⌭ CAVED @ TIME: **16:00** DATE: **11/5/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **4.7** ⌭ CAVED @ TIME: **12:00** DATE: **11/6/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1173.6**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
	R-3	100%	(22%)			20		
						21		
						22		
						23		
23.5						24		
	R-4	100%	(24%)			25		
						26		
						27		
28.5						28		
	R-5	100%	(66%)	**R-5(31.4-31.9)** Qu=9610		29		
						30		
						31	31.2' - EL 1142.4 SANDSTONE; gray; medium strong rock; slightly weathered to fresh; very thinly bedded; RD=<5 deg.; close to wide fractures; Unit RQD = 95%.	
						32		
						33		
33.5						34		
	R-6	100%	(100%)			35	35.0' - EL 1138.6 End of Boring at 35.0'	
35.0						36		
						37		
						38		
						39		
						40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-16

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/5/2024** END: **11/6/2024**

NORTH: **431912.681** EAST: **1593973.489** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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%.**

▽ H_2O @ **Dry** ⌭ CAVED @ TIME: **12:00** DATE: **11/6/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1148.3**

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%	3 2 3			0	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine, sandstone; nonplastic; brown and tan; dry to moist; very loose to very dense; heterogeneous. Trace claystone fragments.	COLLUVIUM.
1.5	S-2	100%	4 5 10	**S-2/S-3/S-4(1.5-6.0)** PL=NP MC=10.2 USCS=SM AASHTO=A-2-4 (0) P#200=30.81		1		
3.0	S-3	100%	11 26 30			2		
4.5	S-4	100%	24 15 15			3		
6.0	S-5	100%	7 12 11			4		
7.5	S-6	73%	21 13 7	**S-6/S-7(7.5-10.5)** MC=7.1		5		
9.0	S-7	73%	4 1 1			6		
10.5	S-8	67%	3 50/0.3			7		
11.1	A-N					8		
12.0	S-9	100%	50/0.1			9		
12.1						10	11.0' - EL 1137.3	
						11	Poorly-graded GRAVEL with sand (gp); sand is fine to coarse; gravel is fine, sandstone; nonplastic; gray; dry; very dense; homogeneous.	RESIDUAL.
						12	12.1' - EL 1136.2	
						13	End of Boring at 12.1'	
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-17

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/5/2024** END: **11/5/2024**

NORTH: **431448.474** EAST: **1594079.58** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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_2O @ **Dry** ℄ CAVED @ TIME: **12:00** DATE: **11/5/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **7.7** ℄ CAVED @ TIME: **16:00** DATE: **11/5/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1149.8**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	100%	4 4 5		0	Silty SAND with gravel (sm); sand is medium; gravel is fine, sandstone; nonplastic; brown; dry to moist; medium dense; homogeneous.	RESIDUAL.
1.5	S-2	100%	6 6 7	**S-2(1.5-3.0)** MC=14.2	1 2		
3.0	S-3	100%	11 21 29		3	3.5' - EL 1146.3	
4.5	S-4	100%	26 29 32	**S-4/S-5/S-6(4.5-9.0)** PL=NP MC=7.5 USCS=SM AASHTO=A-2-4 (0) P#200=18.09	4 5	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine to coarse, sandstone; nonplastic; tan and brown; dry to moist; medium dense to very dense; homogeneous.	RESIDUAL.
6.0	S-5	100%	22 22 11		6 7		
7.5	S-6	100%	17 20 20		8		
9.0	S-7	100%	12 9 5	**S-7(9.0-10.5)** MC=6.3	9 10		
10.5	S-8	80%	8 11 15		11		
12.0	S-9	100%	11 24 20		12 13		
13.5	S-10	100%	14 50 50/0.0		14	14.5' - EL 1135.3	
14.5	R-1	91%	(0%)		15 16 17	SANDSTONE; gray; weak to medium strong rock; highly to moderately weathered; very thinly bedded; RD=<5 deg.; broken to moderate fractures; Unit RQD = 26%. Iron staining.	
18.0					18 19 20	Lost water return at 18.5'.	

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-17

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/5/2024** END: **11/5/2024**

NORTH: **431448.474** EAST: **1594079.58** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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_2O @ **Dry** ⊆ CAVED @ TIME: **12:00** DATE: **11/5/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **7.7** ⊆ CAVED @ TIME: **16:00** DATE: **11/5/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1149.8**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
	R-2	100%	(36%)			20–40		
23.0	R-3	100%	(45%)					
25.0							25.0' - EL 1124.8 End of Boring at 25.0'	

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-18

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/6/2024** END: **11/6/2024**

NORTH: **431337.98** EAST: **1594650.41** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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%.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **12:00** DATE: **11/6/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1158.3**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	93%	3 4 3	**S-1/S-2/S-3(0.0-4.5)** PL=20 LL=27 MC=13.4 USCS=GC-GM AASHTO=A-4 (0) P#200=43.66		0	Silty, clayey GRAVEL with sand (GC-GM); sand is fine to coarse; gravel is fine to coarse, sandstone; nonplastic; brown and tan; dry to moist; loose to dense; homogeneous.	RESIDUAL.
1.5	S-2	100%	4 4 4			1		
3.0	S-3	100%	8 8 10			2		
4.5	S-4	100%	10 13 14			3		
6.0	S-5	100%	11 14 19			4		
7.5	S-6	100%	33 46 45			5	7.5' - EL 1150.8	
9.0	S-7	100%	34 44 49			6	Poorly-graded GRAVEL with sand (gp); sand is medium; gravel is fine, sandstone; nonplastic; gray and brown; dry; very dense; homogeneous.	RESIDUAL.
10.5	S-8	100%	50/0.2			7		
10.7	A-N					8		
12.0	S-9	%	50/0.0			9	12.0' - EL 1146.3	
						10	End of Boring at 12.0'	
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-19

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/6/2024** END: **11/6/2024**

NORTH: **431474.784** EAST: **1595180.816** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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%.**

▽ H_2O @ **Dry** ▷ CAVED @ TIME: **15:00** DATE: **11/6/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ▷ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ▷ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1154.8**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0		
	S-1	100%	3 2 3			1	Silty SAND (SM); sand is fine to coarse; gravel is fine, sandstone; nonplastic; brown and tan; dry to moist; loose to medium dense; homogeneous.	RESIDUAL.
1.5	S-2	100%	5 7 5	**S-2/S-3/S-4(1.5-6.0)** PL=22 LL=27 MC=13.1 USCS=SM AASHTO=A-4 (0) P#200=36.26		2		
3.0	S-3	100%	5 7 6			3		
4.5	S-4	100%	9 7 11			4		
6.0	S-5	100%	10 11 7			5		
						6		
7.5	S-6	100%	7 11 18			7	7.5' - EL 1147.3	
						8	Poorly-graded GRAVEL with sand (gp); sand is medium; gravel is fine, sandstone; nonplastic; gray and brown; dry; medium dense to dense; homogeneous.	RESIDUAL.
9.0	S-7	100%	16 23 21			9		
10.5	S-8	100%	17 20 21			10		
12.0	S-9	67%	13 16 9			11		
13.5	S-10	93%	11 12 13			12		
15.0						13	15.0' - EL 1139.8	
						14	End of Boring at 15.0'	
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-20

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/11/2024** END: **11/11/2024**

NORTH: **431553.983** EAST: **1595587.271** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

STATION: OFFSET: BASELINE: DRILLER: **Bill Minor**

EQUIPMENT: **CME 45 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%.**

▽ H_2O @ **Dry** ⊆ CAVED @ TIME: **11:45** DATE: **11/11/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1171.9**

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 6 9	**S-2/S-3(1.5-4.5)** PL=NP MC=6.8 USCS=SM AASHTO=A-2-4 (0) P#200=27.9		0	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine, angular, flat, sandstone; brown and gray; dry; NP; medium dense to very dense; homogeneous.	RESIDUAL.
1.5	S-2	100%	50 36 24			1		
3.0	S-3	100%	13 16 26			2		
4.5	S-4	100%	50 50/0.1			3		
5.1	A-N					4		
6.0	S-5	100%	50/0.1			5		
6.1						6	6.1' - EL 1165.8	
						7	End of Boring at 6.1'	
						8		
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-21

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/11/2024** END: **11/11/2024**

NORTH: **431922.411** EAST: **1595814.808** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

STATION: OFFSET: BASELINE: DRILLER: **Bill Minor**

EQUIPMENT: **CME 45 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%.**

▽ H_2O @ **Dry** ⊆ CAVED @ TIME: **11:05** DATE: **11/11/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1171.5**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	20%	6 9 8	**S-2/S-3(1.5-4.5)** PL=25 LL=34 MC=10.1 USCS=SM AASHTO=A-4 (1) P#200=44.72		0	Silty SAND (SM); sand is fine to coarse; gravel is fine, angular, flat, sandstone; brown and gray; moist; NP; loose to very dense; homogeneous.	RESIDUAL.
1.5	S-2	87%	5 5 6			1		
3.0	S-3	100%	6 3 3			2		
4.5	S-4	100%	42 48 45			3		
6.0	S-5	100%	50/0.4			4		
6.4						5		
						6	6.4' - EL 1165.1	
						7	End of Boring at 6.4'	
						8		
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-22

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/7/2024** END: **11/7/2024**

NORTH: **431152.806** EAST: **1595261.299** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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%.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **12:00** DATE: **11/7/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1149.7**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0		
	S-1	87%	2 2 2			1	Silty, clayey SAND (SC-SM); sand is fine to coarse; gravel is fine, sandstone; nonplastic; brown, orange-brown, and tan; dry to moist; very loose to medium dense; homogeneous.	COLLUVIUM.
1.5	S-2	100%	2 3 4	**S-2/S-3/S-4(1.5-6.0)** PL=19 LL=26 MC=14.9 USCS=SC-SM AASHTO=A-4 (1) P#200=47.46		2		
3.0	S-3	100%	3 5 5			3		
4.5	S-4	100%	1 1 2			4		
6.0	S-5	100%	2 4 4			5		
7.5	S-6	93%	4 8 5	**S-6/S-7(7.5-10.5)** MC=15.3		6		
9.0	S-7	100%	3 6 7			7		
10.5	S-8	100%	7 9 12			8		
12.0	S-9	100%	9 13 50			9		
13.5	S-10	100%	50 50/0.0			10		
14.0						11	11.5' - EL 1138.2	
						12	Poorly-graded GRAVEL with sand (gp); sand is medium; gravel is fine, sandstone; nonplastic; gray and brown; dry; medium dense to very dense; homogeneous.	RESIDUAL.
						13		
						14	14.0' - EL 1135.7	
						15	End of Boring at 14.0'	
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-23

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/7/2024** END: **11/7/2024**

NORTH: **430830.127** EAST: **1594756.128** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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%.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **14:00** DATE: **11/7/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1149.5**

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%	3 5 4	**S-1/S-2(0.0-3.0)** PL=NP MC=9 USCS=SM AASHTO=A-2-4 (0) P#200=32.02		0	Silty SAND (SM); sand is fine to coarse; gravel is fine, sandstone; nonplastic; tan and brown; dry to moist; medium dense to very dense; homogeneous.	RESIDUAL.
1.5	S-2	100%	8 18 19			1		
3.0	S-3	100%	33 50/0.1			2		
3.6	A-N					3		
4.3	S-4	0%	50/0.0			4	4.5' - EL 1145.0	
4.5						5	End of Boring at 4.5'	
						6		
						7		
						8		
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-24

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/7/2024** END: **11/7/2024**

NORTH: **430474.67** EAST: **1594527.494** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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_2O @ **Dry** ℄ CAVED @ TIME: **15:00** DATE: **11/7/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **13.8** ℄ CAVED @ TIME: **17:00** DATE: **11/7/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1150**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	80%	1 3 5	**S-1(0.0-1.5)** MC=7.7		0	Poorly-graded SAND with gravel (sp); sand is medium; gravel is fine, sandstone; nonplastic; brown; dry to moist; loose to very dense; homogeneous.	RESIDUAL.
1.5	S-2	92%	5 50 50/0.3			1 2		
2.8	A-N					3		
3.0	S-3	100%	50 50/0.2				3.7' - EL 1146.3	
3.7	R-1	91%	(0%)			4 5	SANDSTONE; gray and brown; weak rock; highly to moderately weathered; very thinly bedded; RD=<5 deg.; broken to close fractures; Unit RQD = 11%.	
7.0	R-2	100%	(0%)			6 7		
8.0	R-3	100%	(0%)			8 9 10 11 12		
13.0	R-4	100%	(0%)			13 14 15 16 17		
18.0						18 19 20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-24

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/7/2024** END: **11/7/2024**

NORTH: **430474.67** EAST: **1594527.494** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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_2O @ **Dry** ⊆ CAVED @ TIME: **15:00** DATE: **11/7/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **13.8** ⊆ CAVED @ TIME: **17:00** DATE: **11/7/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1150**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
	R-5	100%	(20%)			20		
						21		
						22		
23.0						23		
	R-6	100%	(70%)			24		
25.0						25	25.0' - EL 1125.0 End of Boring at 25.0'	
						26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-25

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/8/2024** END: **11/8/2024**

NORTH: **430155.746** EAST: **1594581.176** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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_2O @ ▽ CAVED @ TIME: DATE: DESC.: PLUNGE: **-90**

▼ H_2O @ ▽ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ▽ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1135.8**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	93%	2 3 2	**S-1/S-2/S-3(0.0-4.5)** PL=26 LL=32 MC=15.2 USCS=ML AASHTO=A-4 (2) P#200=56.75		0	Sandy SILT (ML); sand is fine to coarse; gravel is fine, sandstone; low plasticity; brown to dark brown; dry to moist; medium stiff to very stiff; homogeneous.	RESIDUAL.
1.5	S-2	100%	2 4 7			1		
3.0	S-3	100%	10 13 14			2		
4.5	S-4	100%	50/0.4			3		
4.9	A-N					4		
6.0	S-5	0%	50/0.0			5	6.0' - EL 1129.8	
6.0	R-1	100%	(0%)			6	Shaley SANDSTONE; gray; weak rock; highly weathered; very thinly bedded; RD=<5 deg.; broken to very close fractures; Unit RQD = 0%.	
8.0	R-2	100%	(0%)			7		
13.0	R-3	100%	(0%)			8		
18.0						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18	18.0' - EL 1117.8 End of Boring at 18.0'	
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-26

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **1/27/2025** END: **1/27/2025**

NORTH: **429781.52** EAST: **1595061.25** COORD. DATUM: **3702 - PA South** LOGGER: **Anna Ablak**

STATION: OFFSET: BASELINE: DRILLER: **Alex Kozel**

EQUIPMENT: **Diedrich D50 Turbo** 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_2O @ **Dry** ℄ CAVED @ TIME: **11:42** DATE: **1/27/2025** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **4.2** ℄ CAVED @ TIME: **12:13** DATE: **1/27/2025** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1158.1**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	Topsoil.	
							0.4' - EL 1157.7	
	S-1	100%	1 4 4			1	Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine, angular; light brown; moist; NP; medium dense to very dense; stratified.	RESIDUAL.
1.5				**S-2/S-3/S-4(1.5-6.0)** PL=23 LL=34 MC=10.8 USCS=SC AASHTO=A-2-6 (0) P#200=28.3		2		
	S-2	100%	4 5 6					
3.0						3		
	S-3	100%	9 21 25			4		
4.5								
	S-4	100%	41 15 9			5		
6.0						6		
	S-5	100%	29 50 50			7		
7.5							7.7' - EL 1150.4	
7.7	S-6	100%	50/0.2				SANDSTONE, fine grained; gray and brown; medium strong rock; moderately weathered to slightly weathered; thinly bedded; RD=<5 deg.; very close to close fractures; RD=<5 deg. to near vertical; Unit RQD = 22%.	
	R-1	90%	(0%)			8		
						9		
						10		
						11		
						12		
12.5						13		
	R-2	100%	(0%)			14		
						15		
						16		
						17		
17.5						18		
						19		
						20		

CHECKED BY:

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-26

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **1/27/2025** END: **1/27/2025**

NORTH: **429781.52** EAST: **1595061.25** COORD. DATUM: **3702 - PA South** LOGGER: **Anna Ablak**

STATION: OFFSET: BASELINE: DRILLER: **Alex Kozel**

EQUIPMENT: **Diedrich D50 Turbo** 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_2O @ **Dry** ⌭ CAVED @ TIME: **11:42** DATE: **1/27/2025** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **4.2** ⌭ CAVED @ TIME: **12:13** DATE: **1/27/2025** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1158.1**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
	R-3	100%	(66%)	**R-3(20.4-20.9)** Qu=10160		20		
						21		
						22		
22.5							22.5' - EL 1135.6	
						23	End of Boring at 22.5'	
						24		
						25		
						26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY:

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-28

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **4**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/12/2024** END: **11/12/2024**

NORTH: **430595.511** EAST: **1595522.695** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ⌭ CAVED @ TIME: **15:50** DATE: **11/12/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **39.1** ⌭ CAVED @ TIME: **12:09** DATE: **11/12/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1224.7**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	100%	1 1 2			0	SILT with sand (ML); sand is fine to coarse; brown; moist; medium plasticity; soft to hard; homogeneous.	RESIDUAL.
1.5	S-2	100%	2 4 3	**S-2/S-3(1.5-4.5)** PL=27 LL=38 MC=17.3 USCS=ML AASHTO=A-6 (8) P#200=73.15		1 2		
3.0	S-3	100%	7 7 7			3 4		
4.5	S-4	100%	4 6 9	**S-4(4.5-6.0)** MC=21.7		5	Increased moisture around 5.5.	
6.0	S-5	100%	6 6 8			6 7		
7.5	S-6	100%	17 50/0.2			8	8.2' - EL 1216.5	
8.2	R-1	100%	(0%)			9 10	SANDSTONE, with siltstone; light gray and brown; weak rock; highly weatheredindistinct; RD=<5 deg.; close fractures; RD=<5 deg. to near vertical; Unit RQD = 3%. Interbedded.	
11.0	R-2	94%	(8%)			11 12 13 14 15		
16.0	R-3	78%	(0%)			16 17 18 19 20		

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TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-28

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **4**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/12/2024** END: **11/12/2024**

NORTH: **430595.511** EAST: **1595522.695** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **15:50** DATE: **11/12/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **39.1** ℄ CAVED @ TIME: **12:09** DATE: **11/12/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1224.7**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
						20	20.8' - EL 1203.9	
21.0						21	CLAYSTONE; dark gray; extremely weak rock to very weak rock; highly weathered; indistinctly bedded; RD=<5 deg.; very close fractures; RD=<5 deg. to near vertical; Unit RQD = 0%.	
	R-4	70%	(0%)			22		
						23		
						24		
						25		
26.0						26	26.4' - EL 1198.3	
	R-5	100%	(26%)			27	SANDSTONE, fine grained; gray and brown; strong rock to medium strong rock; moderately weathered to fresh; thinly bedded; RD=<5 deg.; close to wide fractures; RD=<5 deg. to 50 deg.; Unit RQD = 40%.	
						28		
						29	Increased weathering w/ near vertical fractures 29 - 31.	
31.0						30		
	R-6	96%	(62%)			31		
						32		
						33		
						34		
						35		
36.0						36		
	R-7	90%	(24%)			37		
						38		
						39	39.2' - EL 1185.5	
						40	CLAYSTONE; dark gray; very weak rock; highly weathered to moderately weathered; indistinctly	

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DATE PRINTED= 3/27/25

LIBRARY=BAKER_10-1.GLB

PROJECT=HCR - WEST FIELD PAD.GPJ

TEMPLATE=10L_BORING

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-28

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **3** OF **4**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/12/2024** END: **11/12/2024**

NORTH: **430595.511** EAST: **1595522.695** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **15:50** DATE: **11/12/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **39.1** ℄ CAVED @ TIME: **12:09** DATE: **11/12/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1224.7**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
						40	bedded; RD=<5 deg.; very close fractures; RD=<5 deg. to near vertical; Unit RQD = 0%.	
41.0						41	40.6' - EL 1184.1	
	R-8	100%	(66%)			42	SANDSTONE, fine grained; gray; strong rock to very strong rock; fresh to slightly weathered; thinly bedded; RD=<5 deg.; moderate to wide fractures; RD=<5 deg. to 50 deg.; Unit RQD = 70%.	
						43		
						44		
						45		
46.0						46		
	R-9	100%	(94%)			47		
						48		
						49		
						50		
51.0				**R-10(51.3-51.8)** Qu=15100		51		
	R-10	98%	(82%)			52		
						53		
						54		
						55		
56.0						56		
	R-11	80%	(48%)			57		
						58		
						59		
						60	Increased weatheriing 59.5 - 60.	

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TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-28

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **4** OF **4**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/12/2024** END: **11/12/2024**

NORTH: **430595.511** EAST: **1595522.695** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ⊆ CAVED @ TIME: **15:50** DATE: **11/12/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **39.1** ⊆ CAVED @ TIME: **12:09** DATE: **11/12/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1224.7**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
60.0						60	60.0' - EL 1164.7	
							End of Boring at 60.0'	
						61		
						62		
						63		
						64		
						65		
						66		
						67		
						68		
						69		
						70		
						71		
						72		
						73		
						74		
						75		
						76		
						77		
						78		
						79		
						80		

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TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-29

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/11/2024** END: **11/11/2024**

NORTH: **430900.119** EAST: **1595975.923** COORD. DATUM: **3702 - PA South** LOGGER: **Anna Ablak**

STATION: OFFSET: BASELINE: DRILLER: **Bill Minor**

EQUIPMENT: **CME 45 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%.**

▽ H_2O @ **Dry** ⌭ CAVED @ TIME: **14:57** DATE: **11/11/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1180.5**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	TOPSOIL.	
							0.6' - EL 1179.9	
	S-1	100%	1 2 3			1	Clayey SAND (SC); sand is fine to coarse; gravel is fine, subangular; nonplastic; light brown; moist; loose to dense; homogeneous.	RESIDUAL.
1.5				**S-2/S-3(1.5-4.5)** PL=22 LL=32 MC=11.1 USCS=SC AASHTO=A-4 (1) P#200=40.16		2		
	S-2	100%	2 5 8					
3.0						3		
	S-3	100%	10 9 15					
4.5						4		
	S-4	100%	12 12 14					
6.0						5		
	S-5	100%	12 19 14			6		
7.5				**S-6(7.5-9.0)** MC=18.7		7		
	S-6	100%	9 3 9			8		
9.0						9	9.0' - EL 1171.5	
	S-7	100%	50 50/0.2				Poorly graded SAND with silt and gravel (sp-sm); sand is fine to coarse; gravel is fine, subangular, sandstone; nonplastic; light gray; dry; very dense; stratified.	WEATHERED SANDSTONE.
9.7	A-N					10	10.6' - EL 1169.9	
10.5	S-8	100%	50/0.1				End of Boring at 10.6'	
10.6						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

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TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-30

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/11/2024** END: **11/11/2024**

NORTH: **430958.346** EAST: **1596245.07** COORD. DATUM: **3702 - PA South** LOGGER: **Anna Ablak**

STATION: OFFSET: BASELINE: DRILLER: **Bill Minor**

EQUIPMENT: **CME 45 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%.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **14:14** DATE: **11/11/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1166.4**

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%	1 3 2			0	Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine to coarse, subangular; nonplastic; light brown, orangish; dry to moist; loose to medium dense.	RESIDUAL.
1.5	S-2	100%	3 4 10	**S-2/S-3(1.5-4.5)** PL=20 LL=29 MC=11.1 USCS=SC AASHTO=A-2-4 (0) P#200=31.78		1		
3.0	S-3	100%	12 9 15			2		
4.5	S-4	100%	10 8 15			3		
6.0	S-5	100%	12 7 9	**S-5(6.0-7.5)** MC=12.3		4		
7.5	S-6	100%	9 5 6			5		
9.0	S-7	100%	7 9 8	**S-7(9.0-10.5)** MC=9.1		6		
10.5	S-8	100%	5 5 10			7		
12.0	S-9	80%	8 36 50/0.2			8		
13.5	S-10	100%	25 50/0.3			9		
14.3						10	12.5' - EL 1153.9	
						11	Silty SAND with gravel (sm); sand is fine; gravel is fine to coarse, subangular; nonplastic; brown and gray; moist; NP; very dense, homogeneous.	WEATHERED SANDSTONE.
						12	14.3' - EL 1152.1	
						13	End of Boring at 14.3'	
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-31

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/11/2024** END: **11/11/2024**

NORTH: **430754.694** EAST: **1596669.684** COORD. DATUM: **3702 - PA South** LOGGER: **Anna Ablak**

STATION: OFFSET: BASELINE: DRILLER: **Bill Minor**

EQUIPMENT: **CME 45 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%.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **15:59** DATE: **11/11/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1167.2**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	TOPSOIL. 0.8' - EL 1166.4	
	S-1	87%	2 4 8			1	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine to coarse, subangular; nonplastic; light brown; dry to moist; medium dense to very dense; homogeneous.	RESIDUAL.
1.5	S-2	100%	8 10 10	**S-2/S-3(1.5-4.5)** PL=NP MC=7.4 USCS=SM AASHTO=A-2-4 (0) P#200=18.38		2		
3.0	S-3	100%	13 12 12			3		
4.5	S-4	100%	20 20 17			4		
						5		
6.0	S-5	100%	16 17 17			6		
7.5	S-6	100%	12 12 8			7		
9.0	S-7	100%	7 10 7			8		
10.5	S-8	100%	3 3 6	**S-8(10.5-12.0)** MC=8.3		9		
12.0	S-9	100%	6 12 14			10		
13.5	S-10	100%	17 50/0.4			11		
14.4						12	14.4' - EL 1152.8 End of Boring at 14.4'	
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-32

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/12/2024** END: **11/12/2024**

NORTH: **430291.355** EAST: **1595931.28** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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_2O @ **Dry** ℄ CAVED @ TIME: **12:00** DATE: **11/12/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **8.2** ℄ CAVED @ TIME: **16:00** DATE: **11/12/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1190.3**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	87%	3 5 7		0	Silty SAND with gravel (sm); sand is fine to medium; gravel is fine, sandstone; nonplastic; brown and tan; dry; medium dense to very dense; homogeneous.	RESIDUAL.
1.5	S-2	93%	7 6 6	**S-2(1.5-3.0)** MC=15.1	1 2		
3.0	S-3	100%	12 22 42		3 4		
4.5	S-4	100%	39 44 24		5 6		
6.0	S-5	100%	37 50/0.2				
6.7	A-N				7	7.5' - EL 1182.8	
7.5	S-6	100%	10 4 4	**S-6/S-7(7.5-10.5)** PL=23 LL=36 MC=16.7 USCS=SC AASHTO=A-6 (3) P#200=45.76	8	Clayey SAND (SC); sand is fine to coarse; gravel is fine, claystone; nonplastic; brown and gray; moist; loose to medium dense; homogeneous.	RESIDUAL.
9.0	S-7	100%	4 4 22		9 10	10.5' - EL 1179.8	
10.5	S-8	100%	23 30 50		11	Poorly-graded SAND with gravel (sp); sand is medium; gravel is fine, sandstone; nonplastic; brown to dark brown; dry; very dense; homogeneous.	RESIDUAL.
12.0	S-9	50%	50/0.4		12		
12.4	A-N				13	13.7' - EL 1176.6	
13.5	S-10	100%	50/0.2				
13.7	R-1	100%	(0%)		14	Shaley SANDSTONE; gray; weak rock; moderately weathered; very thinly bedded; RD=<5 deg.; very close fractures; Unit RQD = 0%.	
14.0					15	15.0' - EL 1175.3	
	R-2	100%	(8%)		16	Argillaceous SANDSTONE; gray and brown gray; weak rock; highly weathered; very thinly bedded (blocky in areas); RD=<5 deg.; broken to very close fractures; Unit RQD = 0%. Some interbedded claystone.	
					17	18.0' - EL 1172.3	
19.0					18 19	SANDSTONE; gray and brown gray; weak rock; highly to moderately weathered; very thinly bedded; RD=<5 deg.; broken to close fractures; Unit RQD = 6%.	
					20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-32

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/12/2024** END: **11/12/2024**

NORTH: **430291.355** EAST: **1595931.28** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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_2O @ **Dry** ℄ CAVED @ TIME: **12:00** DATE: **11/12/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **8.2** ℄ CAVED @ TIME: **16:00** DATE: **11/12/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1190.3**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
	R-3	100%	(0%)			20		
						21		
						22		
						23		
24.0						24		
	R-4	100%	(0%)					
25.0						25	25.0' - EL 1165.3 End of Boring at 25.0'	
						26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-33

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/12/2024** END: **11/12/2024**

NORTH: **429758.962** EAST: **1595506.001** COORD. DATUM: **3702 - PA South** LOGGER: **Kathleen Staub**

STATION: OFFSET: BASELINE: DRILLER: **Hunter Balmer**

EQUIPMENT: **CME 45 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%.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **17:00** DATE: **11/12/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1136.9**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	80%	2 5 5			0	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine to coarse, sandstone; nonplastic; brown and tan; dry; medium dense to very dense; homogeneous.	RESIDUAL.
1.5	S-2	100%	7 13 17	**S-2/S-3/S-4(1.5-6.0)** PL=NP MC=6 USCS=SM AASHTO=A-2-4 (0) P#200=21.03		1		
3.0	S-3	100%	25 37 40			2		
4.5	S-4	100%	22 50 38			3		
6.0	S-5	100%	26 28 25			4		
7.5	S-6	100%	7 7 9	**S-6(7.5-9.0)** MC=7.2		5		
9.0	S-7	100%	9 11 24			6		
10.5	S-8	100%	22 50 50/0.2			7		
11.7	A-N					8		
12.0	S-9	100%	50 50/0.2			9		
12.7	A-N					10		
13.5	S-10	100%	40 50 50/0.3			11		
14.8						12	14.8' - EL 1122.1	
						13	End of Boring at 14.8'	
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-34

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/12/2024** END: **11/12/2024**

NORTH: **430267.722** EAST: **1596364.791** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **14:45** DATE: **11/12/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **1.4** ℄ CAVED @ TIME: **16:00** DATE: **11/12/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1150.9**

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%	1 4 3			0	LEAN CLAY with sand (CL); sand is fine to coarse; brown and gray; dry to moist; medium plasticity; stiff to hard.	RESIDUAL.
1.5	S-2	100%	6 5 6	**S-2/S-3(1.5-4.5)** PL=24 LL=36 MC=11.8 USCS=CL AASHTO=A-6 (9) P#200=77.73		1 2		post core water level erroneous, measure 1.4 but not visible in borehole.
3.0	S-3	100%	10 7 9			3 4		
4.5	S-4	100%	16 19 18			5 6		
6.0	S-5	100%	20 30 43			7	7.7' - EL 1143.2	
7.5	S-6	100%	50/0.2					
7.7	R-1	79%	(0%)			8 9	SANDSTONE; brown; medium strong rock to weak rock; moderately weathered to highly weathered; indistinct bedding; very close fractures to close fractures; RD=<5 deg. to near vertical; Unit RQD = 0%.	
11.0	R-2	70%	(0%)			10 11 12 13 14 15	Vertical fracture in R2 at 12.5. Lost drill water at 13	
16.0	R-3	94%	(30%)			16 17	17.0' - EL 1133.9	
						17 18 19 20	SANDSTONE, fine grained; gray; strong rock; fresh to slightly weathered; very thinly bedded; RD=<5 deg.; close to moderate fractures; RD=<5 deg. to 70 deg.; Unit RQD = 50%.	

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TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-34

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/12/2024** END: **11/12/2024**

NORTH: **430267.722** EAST: **1596364.791** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%. NQ2 core, split barrel, wireline w/ water.**

▽ H_2O @ **Dry** ⌭ CAVED @ TIME: **14:45** DATE: **11/12/2024** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **1.4** ⌭ CAVED @ TIME: **16:00** DATE: **11/12/2024** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1150.9**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
21.0				**R-3(21.0-21.5)** Qu=13400		20 21		
	R-4	100%	(65%)			22 23 24		
25.0						25	25.0' - EL 1125.9 End of Boring at 25.0'	
						26 27 28 29 30 31 32 33 34 35 36 37 38 39 40		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-35

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **1/27/2025** END: **1/28/2025**

NORTH: **429579.11** EAST: **1595714.02** COORD. DATUM: **3702 - PA South** LOGGER: **Anna Ablak**

STATION: OFFSET: BASELINE: DRILLER: **Alex Kozel**

EQUIPMENT: **Diedrich D50 Turbo** 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_2O @ **Dry** ℄ CAVED @ TIME: **14:20** DATE: **1/27/2025** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **21.6** ℄ CAVED @ TIME: **09:24** DATE: **1/27/2025** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1149.4**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	Topsoil.	
							1.0' - EL 1148.4	
1.5	S-1	100%	1 2 3			1	Clayey SAND with gravel (SC); sand is fine to coarse; gravel is fine, angular; reddish brown; moist; medium plasticity; loose to dense, heterogenous.	COLLUVIUM.
	S-2	100%	3 5 7			2		
3.0	S-3	100%	21 17 14	**S-3/S-4/S-5/S-6(3.0-9.0)** PL=22 LL=35 MC=11.4 USCS=SC AASHTO=A-6 (1) P#200=39		3		
4.5	S-4	100%	14 9 10			4		
6.0	S-5	100%	11 10 12			5		
7.5	S-6	100%	8 9 11			6		
9.0	S-7	100%	5 5 6			7		
10.5	S-8	100%	3 4 5			8		
12.0	S-9	100%	9 21 50/0.1			9		
						10		
						11		
						12	12.5' - EL 1136.9	
13.1	R-1	86%	(30%)			13	Silty SAND (sm); sand is fine to coarse, angular; light brown; moist; NP; very dense; stratified.	WEATHERED SANDSTONE.
							13.1' - EL 1136.3	
						14	SANDSTONE, fine grained; gray and brown; medium strong rock; moderately weathered to slightly weathered; thinly bedded; RD=<5 deg.; very close to moderate fractures; RD=<5 deg. to near vertical; Unit RQD = 52%.	
						15		
						16		
17.5						17		
						18		
						19		
						20		

CHECKED BY:

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-35

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **1/27/2025** END: **1/28/2025**

NORTH: **429579.11** EAST: **1595714.02** COORD. DATUM: **3702 - PA South** LOGGER: **Anna Ablak**

STATION: OFFSET: BASELINE: DRILLER: **Alex Kozel**

EQUIPMENT: **Diedrich D50 Turbo** 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_2O @ **Dry** ℄ CAVED @ TIME: **14:20** DATE: **1/27/2025** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **21.6** ℄ CAVED @ TIME: **09:24** DATE: **1/27/2025** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1149.4**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
	R-2	100%	(72%)			20		
						21		
						22		
22.5	R-3	100%	(50%)			23		
23.5							23.5' - EL 1125.9 End of Boring at 23.5'	
						24		
						25		
						26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY:

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-36

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **1/27/2025** END: **1/27/2025**

NORTH: **429066.96** EAST: **1595481.22** COORD. DATUM: **3702 - PA South** LOGGER: **Anna Ablak**

STATION: OFFSET: BASELINE: DRILLER: **Alex Kozel**

EQUIPMENT: **Diedrich D50 Turbo** 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_2O @ **Dry** ℄ CAVED @ TIME: **15:05** DATE: **1/27/2025** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **3.4** ℄ CAVED @ TIME: **15:31** DATE: **1/27/2025** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1159.6**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	Topsoil.	
							0.6' - EL 1159.0	
	S-1	100%	1 2 4			1	Clayey GRAVEL (gc); sand is fine to coarse; gravel is fine, angular; reddish brown; moist; NP; loose, heterogenous.	COLLUVIUM.
1.5								
	S-2	100%	3 6 8			2		
							2.5' - EL 1157.1	
3.0	S-3	100%	40 50/0.2			3	Silty SAND (sm); sand is fine to coarse, angular; light brown; moist; NP; medium dense to very dense; stratified.	WEATHERED SANDSTONE.
3.7	A-N					4		
4.5	S-4	100%	27 50/0.3			5		
							5.3' - EL 1154.3	
5.3	R-1	100%	(0%)			6	SANDSTONE interbedded with siltstone, fine grained; gray and brown; medium strong rock; moderately weathered to slightly weathered; thinly bedded; RD=<5 deg.; very close to moderate fractures; RD=<5 deg. to near vertical; Unit RQD = 17%.	
7.3	R-2	100%	(8%)			7		
						8		
						9		
						10		
						11		
12.3						12		
	R-3	100%	(43%)	**R-3(13.5-13.9)** Qu=9700		13		
						14		
						15		
							15.3' - EL 1144.3	
15.3							End of Boring at 15.3'	
						16		
						17		
						18		
						19		
						20		

CHECKED BY:

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-37

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **1/27/2025** END: **1/27/2025**

NORTH: **429361.69** EAST: **1595938.04** COORD. DATUM: **3702 - PA South** LOGGER: **Anna Ablak**

STATION: OFFSET: BASELINE: DRILLER: **Alex Kozel**

EQUIPMENT: **Diedrich D50 Turbo** 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_2O @ **Dry** ⌭ CAVED @ TIME: **14:00** DATE: **1/27/2025** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **3.1** ⌭ CAVED @ TIME: **14:30** DATE: **1/27/2025** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1175.1**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	Topsoil.	
							1.0' - EL 1174.1	
	S-1	100%	1 2 4			1	Clayey GRAVEL with sand (GC); gravel is fine, sand is fine to coarse, angular; light brown; moist; NP; loose to very dense; stratified.	RESIDUAL.
1.5				**S-2/S-3/S-4(1.5-6.0)** PL=21 LL=31 MC=7 USCS=GC AASHTO=A-2-4 (0) P#200=30.7		2		
	S-2	100%	3 5 6					
3.0						3		
	S-3	100%	16 16 17					
4.5						4		
	S-4	100%	29 30 48					
6.0						6		
	S-5	100%	42 46 50					
7.5						7		
	S-6	100%	42 50 50/0.0			8		
8.5							8.5' - EL 1166.6	
	R-1	100%	(0%)			9	SANDSTONE, fine grained; gray and brown; medium strong rock; moderately weathered to fresh; thinly bedded; RD=<5 deg.; very close to moderate fractures; RD=<5 deg. to 30 deg.; Unit RQD = 51%.	
12.0						12		
	R-2	100%	(52%)			15		
17.0						17		
	R-3	100%	(84%)			20		

CHECKED BY:

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-37

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **2** OF **2**

LATITUDE: LONGITUDE: GEO. DATUM: START: **1/27/2025** END: **1/27/2025**

NORTH: **429361.69** EAST: **1595938.04** COORD. DATUM: **3702 - PA South** LOGGER: **Anna Ablak**

STATION: OFFSET: BASELINE: DRILLER: **Alex Kozel**

EQUIPMENT: **Diedrich D50 Turbo** 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_2O @ **Dry** ⊆ CAVED @ TIME: **14:00** DATE: **1/27/2025** DESC.: **Before core** PLUNGE: **-90**

▼ H_2O @ **3.1** ⊆ CAVED @ TIME: **14:30** DATE: **1/27/2025** DESC.: **0 Hr.** ELEV. DATUM: **NAVD88**

▼ H_2O @ ⊆ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1175.1**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
22.0	R-4	100%	(60%)			20		
23.5						21		
						22		
						23	23.5' - EL 1151.6	
						24	End of Boring at 23.5'	
						25		
						26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		

CHECKED BY:

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-38

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **1/27/2025** END: **1/27/2025**

NORTH: **429656.37** EAST: **1596263.78** COORD. DATUM: **3702 - PA South** LOGGER: **Anna Ablak**

STATION: OFFSET: BASELINE: DRILLER: **Alex Kozel**

EQUIPMENT: **Diedrich D50 Turbo** 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%.**

∇ H_2O @ **Dry** $\subset$ CAVED @ TIME: **13:08** DATE: **1/27/2025** DESC.: **0 Hr.** PLUNGE: **-90**

$\blacktriangledown$ H_2O @ $\subset$ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

$\blacktriangledown$ H_2O @ $\subset$ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1194**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0	Topsoil.	
							0.8' - EL 1193.2	
	S-1	100%	1 4 2			1	Clayey GRAVEL (gc); sand is fine to coarse; gravel is fine, angular; light brown; moist; NP; loose to medium dense, heterogenous.	COLLUVIUM.
1.5								
	S-2	100%	4 6 5			2		
3.0								
	S-3	100%	4 6 7			3		
4.5								
	S-4	100%	7 7 6			4		
6.0								
	S-5	100%	5 15 35			5		
7.5								
	S-6	100%	20 14 8			6		
9.0							6.5' - EL 1187.5	
	S-7	100%	5 50/0.1			7	Silty SAND (sm); sand is fine to coarse, angular; light brown; moist; NP; medium dense to very dense; stratified.	RESIDUAL.
9.6							9.6' - EL 1184.4	
						8	End of Boring at 9.6'	
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY:

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-39

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/12/2024** END: **11/12/2024**

NORTH: **430120.427** EAST: **1596956.389** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%.**

▽ H_2O @ **Dry** ℄ CAVED @ TIME: **13:45** DATE: **11/12/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ℄ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1105.9**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0	S-1	47%	WOH WOH 3	**S-1/S-2/S-3(0.0-4.5)** PL=21 LL=29 MC=16.2 USCS=SC AASHTO=A-4 (1) P#200=46.64		0	Clayey SAND (SC); sand is fine to coarse, angular; brown and gray; moist; NP; very loose to dense.	COLLUVIUM.
1.5	S-2	87%	1 2 4			1		
3.0	S-3	100%	4 4 4			2		
4.5	S-4	100%	12 16 18			3		
6.0	S-5	100%	16 22 50/0.1			4		
7.1						5	7.1' - EL 1098.8	
						6	End of Boring at 7.1'	
						7		
						8		
						9		
						10		
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

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TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-40

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/13/2024** END: **11/13/2024**

NORTH: **433673.677** EAST: **1594964.868** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%.**

▽ H_2O @ **Dry** ⌭ CAVED @ TIME: **11:40** DATE: **11/13/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1206.2**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0		
	S-1	73%	4 6 4	**S-1/S-2(0.0-3.0)** PL=NP MC=9.1 USCS=SM AASHTO=A-2-4 (0) P#200=23.43		1	Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine to coarse, subangular, elongated, limestone; dark brown and black; moist; NP; medium dense; heterogeneous.	FILL.
1.5	S-2	100%	3 11 12	**BS-1/BS-2(0.1-9.2)** PL=19 LL=27 MC=4.4 USCS=SC AASHTO=A-4 (1) P#200=45.86 MD=123.5 OMC=9.8		2		
3.0						3	3.2' - EL 1203.0	
	S-3	100%	16 8 4			4	Clayey SAND (SC); sand is fine to coarse; gravel is fine, angular, flat, sandstone; brown and gray; dry to moist; NP; medium dense to very dense; homogeneous.	RESIDUAL.
4.5	S-4	100%	14 17 24	**S-3(3.0-4.5)** MC=9.3		5		
6.0	S-5	100%	50 50/0.4			6		
6.9	A-N					7		
7.5	S-6	100%	50 50/0.4			8		
8.4	A-N					9	9.2' - EL 1197.0	
9.0	S-7	100%	50/0.2					
9.2						10	End of Boring at 9.2'	
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

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TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25

Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-41

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/13/2024** END: **11/13/2024**

NORTH: **434140.856** EAST: **1595406.628** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%.**

▽ H_2O @ **Dry** ⌭ CAVED @ TIME: **13:30** DATE: **11/13/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ⌭ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1207.8**

SAMPLE DEPTH (FT)	SAMPLE TYPE - NUMBER	RECOVERY %	SPT BLOWS/0.5 FT or (RQD)	TEST RESULTS	STRATA	DEPTH	DESCRIPTION	REMARKS
0.0						0		
	S-1	80%	3 6 11	**BS-1/BS-2(0.0-10.0)** PL=20 LL=27 MC=6.1 USCS=SC-SM AASHTO=A-4 (0) P#200=42.68 MD=123.4 OMC=10.1		1	Silty, clayey SAND with gravel (SC-SM); sand is fine to coarse; gravel is fine to coarse, subangular, flat and elongated, limestone; dark brown and light gray; moist; NP; medium dense to dense; heterogeneous.	FILL.
1.5	S-2	100%	14 11 6	**S-2/S-4(1.5-6.0)** MC=13.9		2		
3.0	S-3	0%	9 12 14			3		
4.5	S-4	100%	4 9 5			4		
6.0	S-5	67%	7 6 3			5		
7.5				**S-6/S-7/S-8(7.5-12.0)** PL=NP MC=9.6 USCS=GM AASHTO=A-2-4 (0) P#200=26		6	7.5' - EL 1200.3	
	S-6	100%	6 7 11			7	Silty GRAVEL with sand (GM); sand is fine to coarse; gravel is fine to coarse, angular, flat, sandstone; brown; dry to moist; NP; medium dense to very dense.	RESIDUAL.
9.0	S-7	100%	20 24 18			8		
10.5	S-8	100%	12 13 12			9		
12.0	S-9	100%	8 15 8			10		
13.5	S-10	100%	18 16 37			11		
15.0	S-11	100%	10 5 8			12		
16.5	S-12	100%	50/0.1			13		
16.6						14	16.6' - EL 1191.2	
						15	End of Boring at 16.6'	
						16		
						17		
						18		
						19		
						20		

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Michael Baker INTERNATIONAL

LOG OF BORING NO.: WF-42

PROJECT: **Homer City Redevelopment - West Field Pad** SHEET: **1** OF **1**

LATITUDE: LONGITUDE: GEO. DATUM: START: **11/13/2024** END: **11/13/2024**

NORTH: **434499.031** EAST: **1595596.381** COORD. DATUM: **3702 - PA South** LOGGER: **Robert Roselius**

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%.**

▽ H_2O @ **Dry** ▽ CAVED @ TIME: **15:00** DATE: **11/13/2024** DESC.: **0 Hr.** PLUNGE: **-90**

▼ H_2O @ ▽ CAVED @ TIME: DATE: DESC.: ELEV. DATUM: **NAVD88**

▼ H_2O @ ▽ CAVED @ TIME: DATE: DESC.: GROUND ELEV.: **1205.5**

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%	1 2 50/0.0	**BS-1/BS-2(0.0-9.1)** PL=19 LL=26 MC=5.6 USCS=SC-SM AASHTO=A-4 (0) P#200=41.47 MD=120.7 OMC=11.5		0	Silty, clayey SAND with gravel (SC-SM); sand is fine to coarse; gravel is fine to coarse, subangular, flat and elongated, limestone; dark brown and light gray; moist; NP; very dense; heterogeneous. Refusal/cobble; cobble/boulder at 1, auger to 3.	FILL.
1.0	A-N					1		
						2		
3.0	S-2	100%	7 8 12	**S-2/S-3(3.0-6.0)** PL=NP MC=11.8 USCS=SM AASHTO=A-4-4 (0) P#200=28.63		3	3.0' - EL 1202.5 Silty SAND with gravel (SM); sand is fine to coarse; gravel is fine to coarse, angular, flat, sandstone; brown; dry; NP; medium dense to dense; homogeneous.	FILL.
4.5	S-3	100%	10 16 8			4		
						5		
6.0	S-4	100%	8 15 12			6		
7.5	S-5	100%	11 11 21			7		
						8		
9.0	S-6	100%	50/0.1			9	9.1' - EL 1196.4 Poorly-graded GRAVEL (gp); sand is fine; gravel is fine to coarse, subangular; nonplastic; brown and gray; moist; NP; very dense, homogeneous.	WEATHERED SANDSTONE.
9.1	A-N					10	10.6' - EL 1194.9	
10.5	S-7	100%	50/0.1			11	End of Boring at 10.6'	
10.6						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		

CHECKED BY: DRB

TEMPLATE=10L_BORING PROJECT=HCR - WEST FIELD PAD.GPJ LIBRARY=BAKER_10-1.GLB DATE PRINTED= 3/27/25