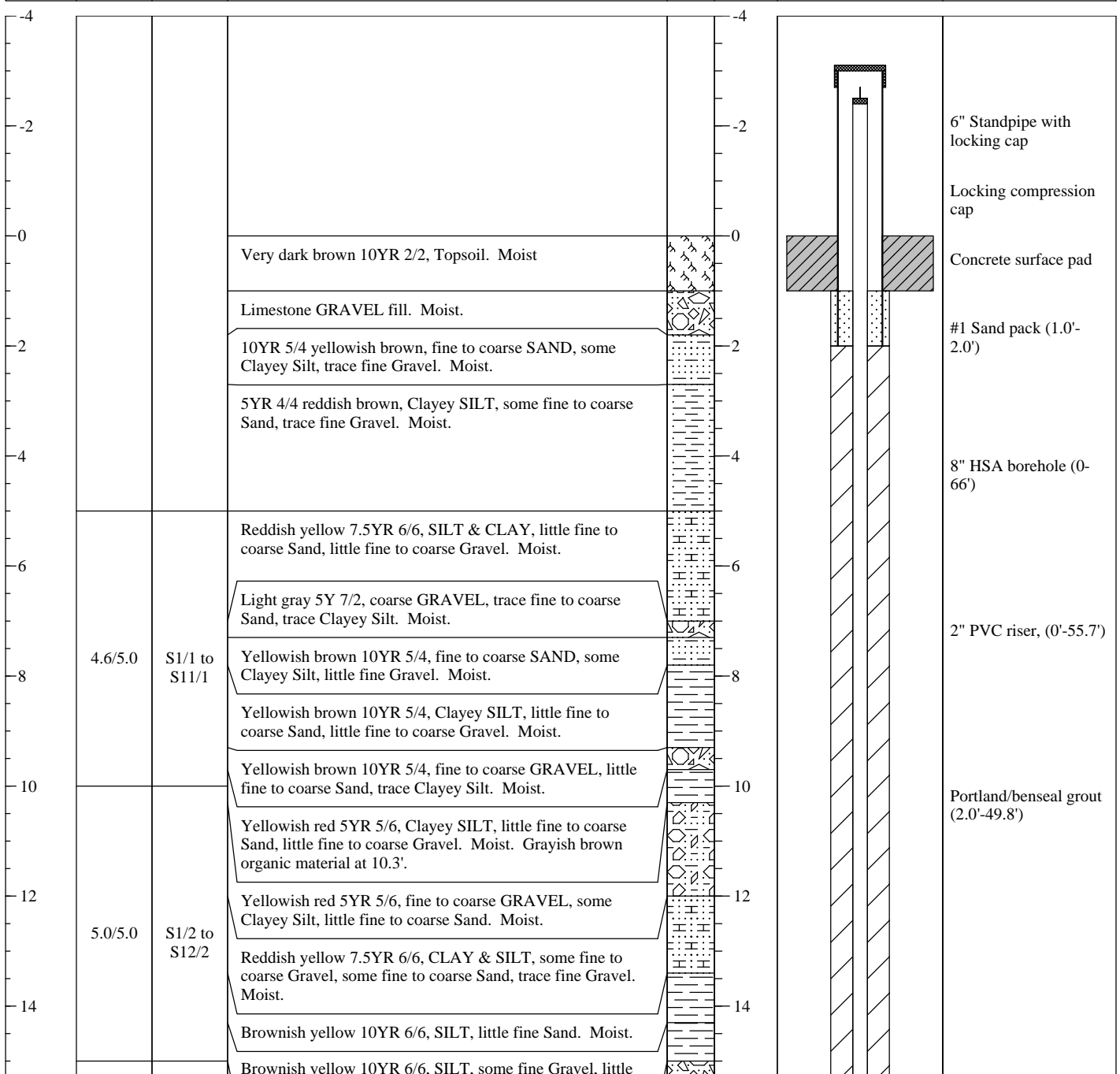




PROJECT INFORMATION			DRILLING INFORMATION		
PROJECT:	<i>Harley Davidson</i>		DRILLING CO.:	<i>Eichelbergers, Inc.</i>	
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>		DRILLER:	<i>Shane Albert</i>	
JOB NO.:	<i>10012.26</i>		RIG TYPE:	<i>Geoprobe 7822DT</i>	
LOGGED BY:	<i>R. Ulrich</i>		DRILLING METHOD:	<i>HSA, Geoprobe Dual-Tube Sampling</i>	
DATES DRILLED:	<i>12/29/14-12/30/14, 2/9/15-2/10/15</i>		DEVELOPMENT DATE:	<i>2/12/15-2/13/15, 2/20/15</i>	
			LOCATION:	<i>South Property Boundary Area</i>	

NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to refusal at 50'. 4 1/4 ID HSA advanced to 66'. 2" PVC monitoring well installed 2/11/15.	SURFACE ELEVATION	413.78' AMSL
	EASTING	2260208.866
	NORTHING	238989.580

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
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DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
16			fine to coarse Sand. Moist.		16		
	5.0/5.0	S1/3 to S12/3	Brownish yellow 10YR 6/6, fine to coarse subangular quartzite GRAVEL, little fine to coarse Sand, little Silt & Clay. Moist.				
18			Brownish yellow 10YR 6/6, SILT & CLAY and fine to coarse Sand, trace fine to coarse subangular quartzite Gravel. Moist.		18		
	5.0/5.0	S1/4 to S12/4	Brownish yellow 10YR 6/6, SILT & CLAY, trace fine Sand. Moist.				
20			Brownish yellow 10YR 6/6, SILT & CLAY, trace fine to coarse Sand, trace fine Gravel. Moist.		20		
22			Brownish yellow 10YR 6/6, CLAY & SILT, some fine to coarse Sand, trace fine Gravel. Moist.		22		
24			Brownish yellow 10YR 6/6, SILT & CLAY, some fine to coarse Gravel, little fine to coarse Sand. Moist.		24		
	5.0/5.0	S1/5 to S12/5	Light red 2.5YR 6/6, fine to coarse subangular to subrounded quartzite GRAVEL, some Silt & Clay, little fine to coarse Sand. Moist.				8" HSA borehole (0-66')
26			Red 10R 5/6, CLAY & SILT, some fine to coarse Sand, little fine subangular to subrounded quartzite GRAVEL. Moist.		26		2" PVC riser, (0'-55.7')
28			Brownish yellow 10YR 6/8, Clayey SILT, some fine to coarse Sand, trace fine Gravel. Moist.		28		
30			Brownish yellow 10YR 6/8, fine to coarse subangular to subrounded quartzite GRAVEL, some Silt & Clay, little fine to coarse Sand. Moist.		30		Portland/benseal grout (2.0'-49.8')
	3.4/2.5	S1/6 to S6/6	Reddish yellow 7.5YR 6/8, SILT & CLAY, little fine to coarse Sand, little fine to coarse Gravel. Moist. Mottled reddish brown.				
32			Reddish yellow 7.5YR 6/8, CLAY & SILT, little fine to coarse Sand, trace fine Gravel. Moist. Mottled reddish brown.		32		
	3.4/2.5	S1/7 to S6/7	Brownish yellow 10YR 6/8, SILT & CLAY, little fine to coarse Sand, trace fine Gravel. Moist.				
34			Brownish yellow 10YR 6/8, SILT & CLAY, little fine to coarse Sand, little fine to coarse Gravel. Moist. Wet 35.4'-35.8' and 36.8'-37.0'.		34		
	5.0/2.5	S1/8 to S6/8					
36					36		
38					38		



DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
40	3.3/2.5	S1/9 to S6/9			40		
42	4.4/2.5	S1/10 to S6/10	Brownish yellow 10YR 6/6, CLAY & SILT, little fine to coarse Sand, little fine Gravel. Moist.		42		
44	2.0/2.5	S1/11 to S4/11	No Recovery. Sample fell out of bottom of tube into borehole.		44		
46	5.0/2.5	S1/12 to S6/12	Brownish yellow 10YR 6/6, SILT & CLAY, little fine to coarse Sand, little fine Gravel. Moist. Wet 43.3'-43.7'.		46		
48	3.6/2.5	N/A	Yellowish brown 10YR 5/6 CLAY & SILT, little fine to coarse Sand, trace fine Gravel. Very moist with wet pockets & seams, wet below 49.5'.		48		
50			Soil not sampled. The borehole was deepened with augers after macrocore refusal. The lower 15 feet of augers and cutter head were coated in Silt & Clay.		50		
52					52		
54					54		
56					56		
58	N/A	N/A			58		
60					60		
62					62		

8" HSA borehole (0-66')

2" PVC riser, (0'-55.7')

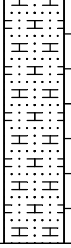
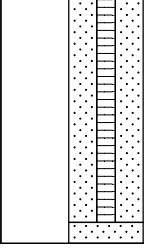
Portland/benseal grout (2.0'-49.8')

Bentonite chip annular seal (49.8'-53')

#1 Sand pack (53'-66')

2" PVC 10-slot screen, (55.7'-65.7')

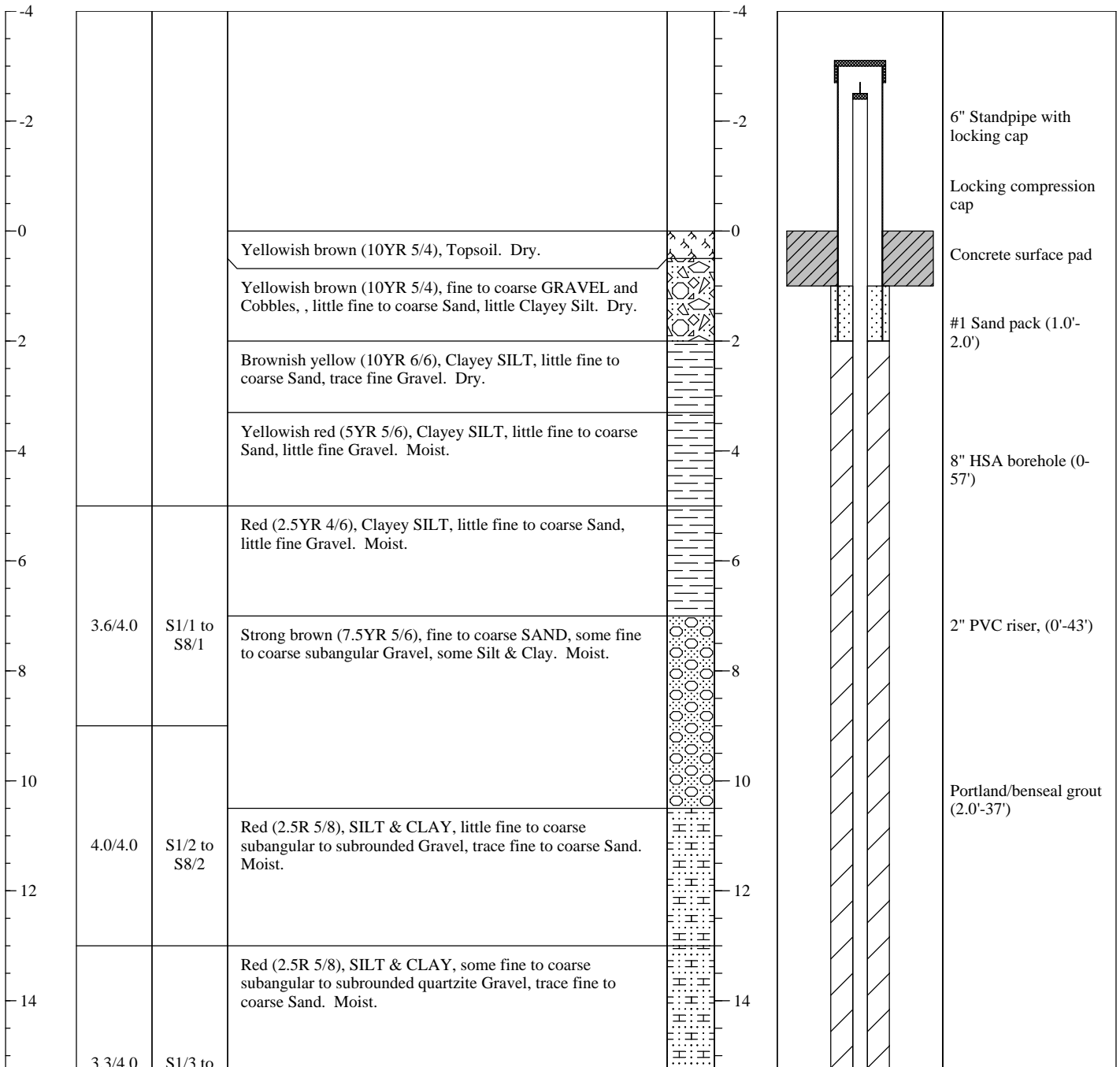


DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
64					64		8" HSA borehole (0-66')
66					66		2" PVC 10-slot screen, (55.7'-65.7')



PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	<i>Harley Davidson</i>	DRILLING CO.:	<i>Eichelbergers, Inc.</i>
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>	DRILLER:	<i>Shane Albert</i>
JOB NO.:	<i>10012.26</i>	RIG TYPE:	<i>Geoprobe 7822DT</i>
LOGGED BY:	<i>R. Ulrich</i>	DRILLING METHOD:	<i>HSA, Geoprobe Dual-Tube Sampling</i>
DATES DRILLED:	<i>11/6/14, 12/29/14, 2/5/15-2/6/15</i>	DEVELOPMENT DATE:	<i>2/12/15-2/13/15</i>
		LOCATION:	<i>South Property Boundary Area</i>
NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to refusal at 56.9'. 4 1/4 ID HSA advanced to 57'. 2" PVC monitoring well installed 2/6/15.		SURFACE ELEVATION	413.37' AMSL
		EASTING	2260012.338
		NORTHING	238996.758

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
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DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
16		S8/3	Reddish yellow (5YR 6/6), CLAY & SILT, some fine to coarse Sand, trace fine Gravel. Moist.		16		
18	3.9/4.0	S1/4 to S8/4	Brownish yellow (10YR 6/6), CLAY & SILT, little fine to coarse quartzite Gravel, trace fine to coarse Sand. Moist. Reddish brown & white mottles.		18		
22	3.2/4.0	S1/5 to S7/5	Brownish yellow (10YR 6/8), SILT & CLAY, little fine to medium Sand. Moist. Mottled white.		22		
26	4.0/4.0	S1/6 to S8/6	Brownish yellow (10YR 6/8), CLAY & SILT, trace fine to coarse Sand, trace fine Gravel. Moist. Mottled white & reddish brown.		26		
30	4.0/4.0	S1/7 to S8/7	Reddish yellow (7.5YR 6/8), CLAY & SILT, little fine to medium Sand. Moist.		30		Portland/benseal grout (2.0'-37')
32			Reddish yellow (5YR 6/8), CLAY & SILT, little fine to coarse Sand, little fine to coarse Gravel. Moist.		32		
34	4.0/4.0	S1/8 to S8/8	Brownish yellow (10YR 6/6), SILT & CLAY, some fine to coarse Gravel, little fine to coarse Sand. Moist.		34		
36			Brownish yellow (10YR 6/6), fine to coarse subangular to subrounded quartzite GRAVEL, some Silt & Clay, little fine to coarse Sand. Moist.		36		
			Red (2.5YR 5/6), fine to coarse subangular to subrounded quartzite GRAVEL, little Silt & Clay, little fine to coarse Sand. Moist.				
38			Brownish yellow (10YR 6/6), SILT & CLAY, some fine to coarse Gravel, little fine to coarse Sand. Moist.		38		
			Brownish yellow (10YR 6/6), SILT & CLAY, little fine to coarse Sand, trace fine Gravel. Moist.				Bentonite chip annular seal (37'-41')



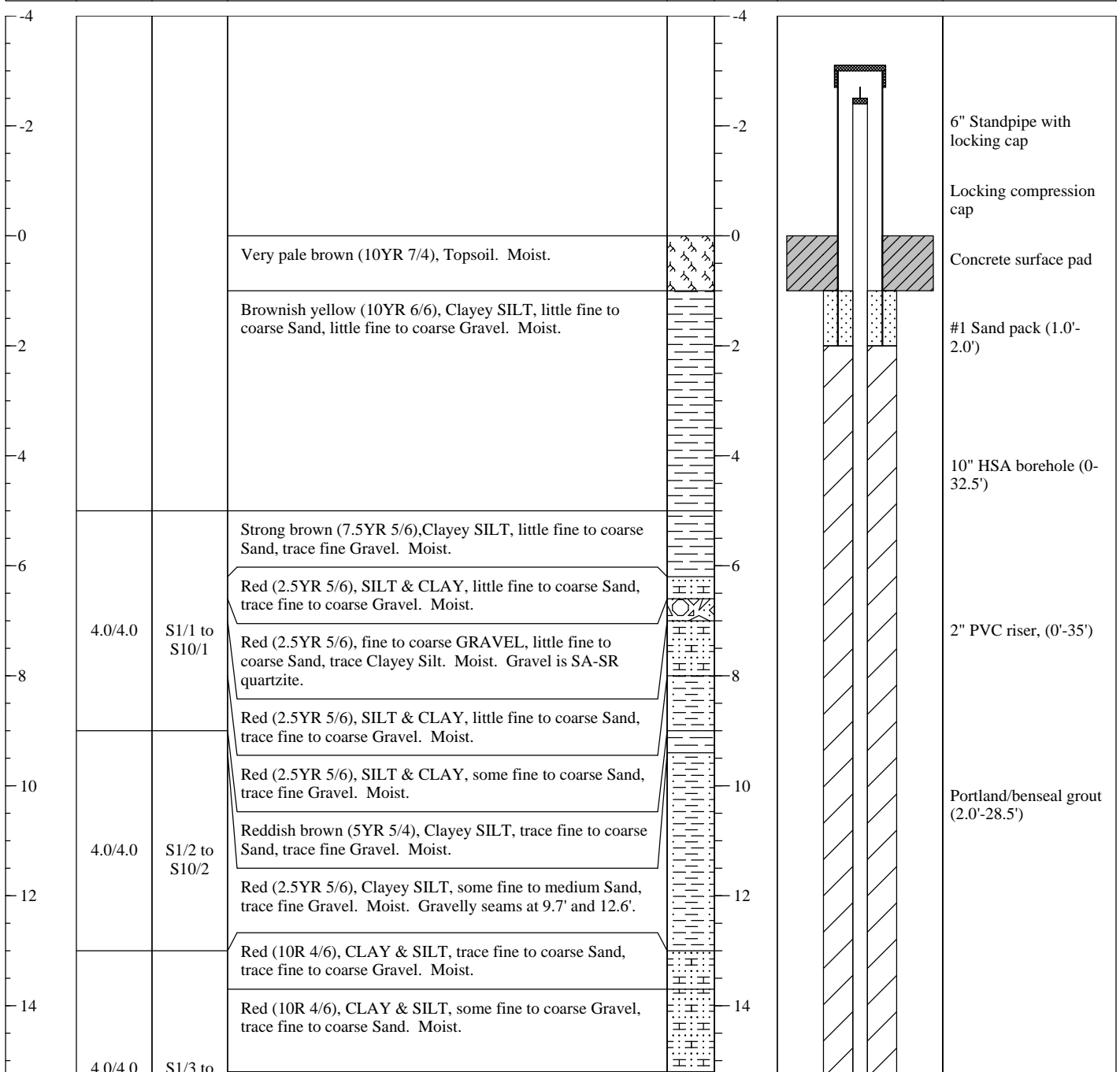
DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
40	4.0/4.0	S1/9 to S8/9	Brownish yellow (10YR 6/6), CLAY & SILT, little fine to coarse Sand, trace fine to coarse Gravel. Moist. Coarse quartzite Gravel 39.0'-39.2'.		40		Bentonite chip annular seal (37'-41')
42			No recovery.		42		2" PVC riser, (0'-43')
44	1.6/4.0	S1/10 to S4/10	Brownish yellow (10YR 6/6), SILT & CLAY, little fine to coarse Sand, little fine to coarse Gravel. Moist. Coarse Gravel 43.9'-44.1'.		44		#1 Sand pack (41'-54')
48	4.2/5.0	S1/11 to S10/11	Yellowish brown (10YR 5/6), CLAY & SILT, little fine to coarse Sand, little fine to coarse Gravel. Moist. Reddish brown mottles.		48		2" PVC 10-slot screen, (43'-53')
50			Yellowish brown (10YR 5/6), CLAY & SILT, trace fine Sand. Moist.		50		8" HSA borehole (0-57')
52	5.0/4.2	S1/12 to S10/12	Light yellowish brown (10YR 6/4), CLAY & SILT, some fine to coarse Sand. Moist.		52		
54			Light yellowish brown (10YR 6/4), fine to coarse subangular to subrounded quartzite GRAVEL, some fine to coarse Sand, some Silt & Clay. Moist.		54		
56	4.2/2.7	S1/13 to S6/13	Yellowish brown (10YR 5/4), SILT & CLAY, some fine to coarse Sand, some fine to coarse Gravel. Moist. Wet seam of Sand at 55.6'.		56		Bentonite chip annular seal (54'-55.5')
			Yellowish brown (10YR 5/6), CLAY & SILT, trace fine to coarse Sand, trace fine Gravel. Moist. Reddish brown mottles.				Collapsed formation (55.5'-57')
			Yellowish brown (10YR 5/6), SILT & CLAY, trace fine to coarse Sand, trace fine Gravel. Moist. Reddish brown mottles.				
			Reddish brown (5YR 5/4), fine to coarse SAND, some Silt & Clay. Wet.				



PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	<i>Harley Davidson</i>	DRILLING CO.:	<i>Eichelbergers, Inc.</i>
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>	DRILLER:	<i>Shane Albert</i>
JOB NO.:	<i>10012.26</i>	RIG TYPE:	<i>Geoprobe 7822DT</i>
LOGGED BY:	<i>R. Ulrich</i>	DRILLING METHOD:	<i>HSA, Geoprobe Dual-Tube Sampling, Air Rotary</i>
DATES DRILLED:	<i>11/4/14, 1/30/15, 2/2/15-2/4/15</i>	DEVELOPMENT DATE:	<i>2/12/15</i>
		LOCATION:	<i>South Property Boundary Area</i>

NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to refusal at 32.5'. 6 1/4 ID HSA overdrilled to 32.5'. 5" hammer bit advanced to 57' with air rotary. Well constructed 2/4/15	SURFACE ELEVATION	416.97' AMSL
	EASTING	2259838.321
	NORTHING	238999.212

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
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DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
16		S10/3	Red (2.5YR 5/6), CLAY & SILT, trace fine to medium Sand. Moist.		16		
18			Red (2.5YR 5/6), CLAY & SILT, some fine to coarse Gravel, trace fine to coarse Sand. Moist. Gravel is quartzite.		18		
20	4.0/4.0	S1/4 to S10/4	Reddish yellow (5YR 6/6), Clayey SILT, some fine to coarse Sand, trace fine Gravel. Moist.		20		
22			Yellowish red (5YR 5/6), SILT & CLAY, little fine to coarse Sand, little fine to coarse Gravel. Moist.		22		
24	4.0/4.0	S1/5 to S10/5	Brownish yellow (10YR 6/6), Clayey SILT, little fine to medium Sand, trace fine Gravel. Moist.		24		
26			Yellowish red (5YR 5/6), Clayey SILT, some fine to coarse Gravel, little fine to coarse Sand. Moist. May be sluff?		26		
28	4.0/4.0	S1/6 to S10/6	Reddish yellow (7.5 YR 6/8), CLAY & SILT, little fine to coarse Gravel, trace fine to coarse Sand. Moist.		28		
			Brownish yellow (10YR 6/8), subrounded to rounded fine to coarse Gravel, some fine to coarse Sand, trace Silt. Wet.				
			Brownish yellow (10YR 6/8), fine SAND, little Silt. Wet.				
30			Reddish yellow (5YR 6/6), subrounded to rounded fine to coarse GRAVEL, little fine to coarse Sand, little Clayey Silt. Wet.		30		
32	3.6/3.5	S1/7 to S10/7	Brownish yellow (10YR 6/6), subrounded to rounded fine to coarse GRAVEL, little fine to coarse Sand, little Silt & Clay. Wet.		32		
			Brownish yellow (10YR 6/8), CLAY & SILT, some fine to coarse Sand, trace fine Gravel. Coarse Sandstone Gravel 32.2-32.4. Limestone shards in toe of macrocore at 32.5'. Moist. Refusal at 32.5'.				
34			Hard, slightly weathered, gray (N5/) LIMESTONE. Dry. Thin calcite veins present.		34		
36			Void filled with Sand and Gravel from 35.5'-37', Silt & Clay from 37'-39'.		36		
38			Hard, moderately weathered, gray (N6/) LIMESTONE.		38		

10" HSA borehole (0'-32.5')

2" PVC riser, (0'-35')

Portland/benseal grout (2.0'-28.5')

Bentonite chip annular seal (28.5'-32.8')

5" air rotary borehole (32.5'-57')

#1 Sand pack (32.8'-56')

2" PVC 10-slot screen, (35'-55')



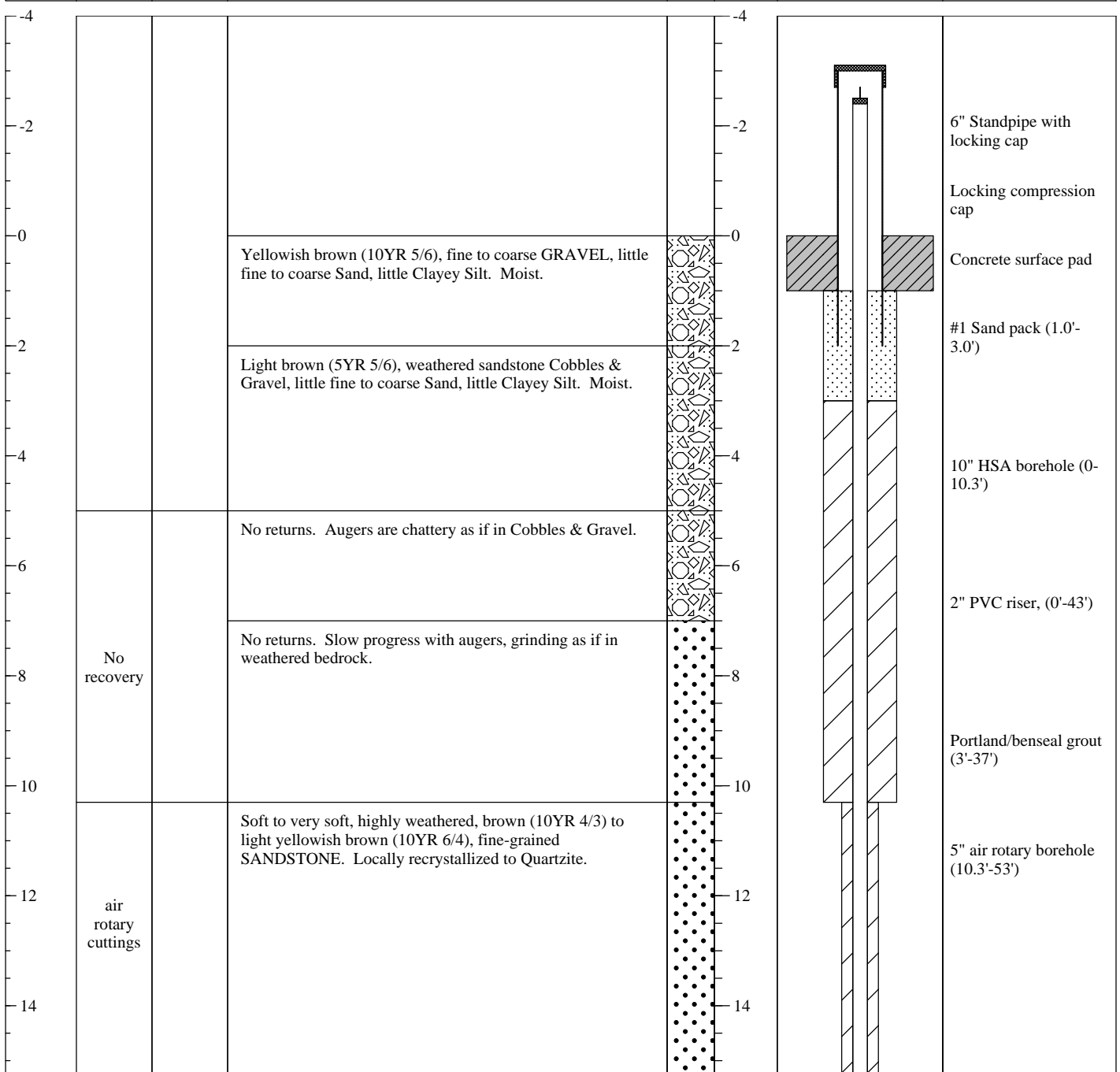
DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
40			Solution features evident.		40		
42			No returns. No sound from the hammer bit, downward resistance indicates sediment is present, presumably Silt & Clay. From 49'-51' hammer bit produces soft thuds, suggesting more resistant material such as gravel or weathered bedrock.		42		
44					44		
46					46		
48					48		
50					50		
52			No returns. Hammer bit sounds as if in competent rock. Limestone dust on hammer bit when removed from borehole.		52		
54					54		
56					56		
							5" air rotary borehole (32.5'-57')
							#1 Sand pack (32.8'-56')
							2" PVC 10-slot screen, (35'-55')
							Collapsed formation (56'-57')



PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	<i>Harley Davidson</i>	DRILLING CO.:	<i>Eichelbergers, Inc.</i>
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>	DRILLER:	<i>Shane Albert</i>
JOB NO.:	<i>10012.26</i>	RIG TYPE:	<i>Geoprobe 7822DT</i>
LOGGED BY:	<i>R. Ulrich</i>	DRILLING METHOD:	<i>HSA, Air Rotary</i>
DATES DRILLED:	<i>11/4/14, 1/29/15</i>	DEVELOPMENT DATE:	<i>2/12/15</i>
		LOCATION:	<i>South Property Boundary Area</i>

NOTES: Vacuum excavation to 5'. 6 1/4 HSA advanced to refusal at 10.3'. 5" hammer bit advanced using air rotary to 53'. 2" PVC monitoring well installed 1/30/15.	SURFACE ELEVATION	422.48' AMSL
	EASTING	2259623.933
	NORTHING	238954.174

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
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DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
16					16		
18					18		
20	air rotary cuttings				20		5" air rotary borehole (10.3'-53')
22					22		
24					24		2" PVC riser, (0'-43')
26					26		
28			Medium hard to soft, moderately weathered, very pale brown (10YR 7/3), QUARTZITE.		28		Portland/benseal grout (3'-37')
30					30		
32					32		
34					34		
36					36		
38					38		Bentonite chip annular seal (37'-40')



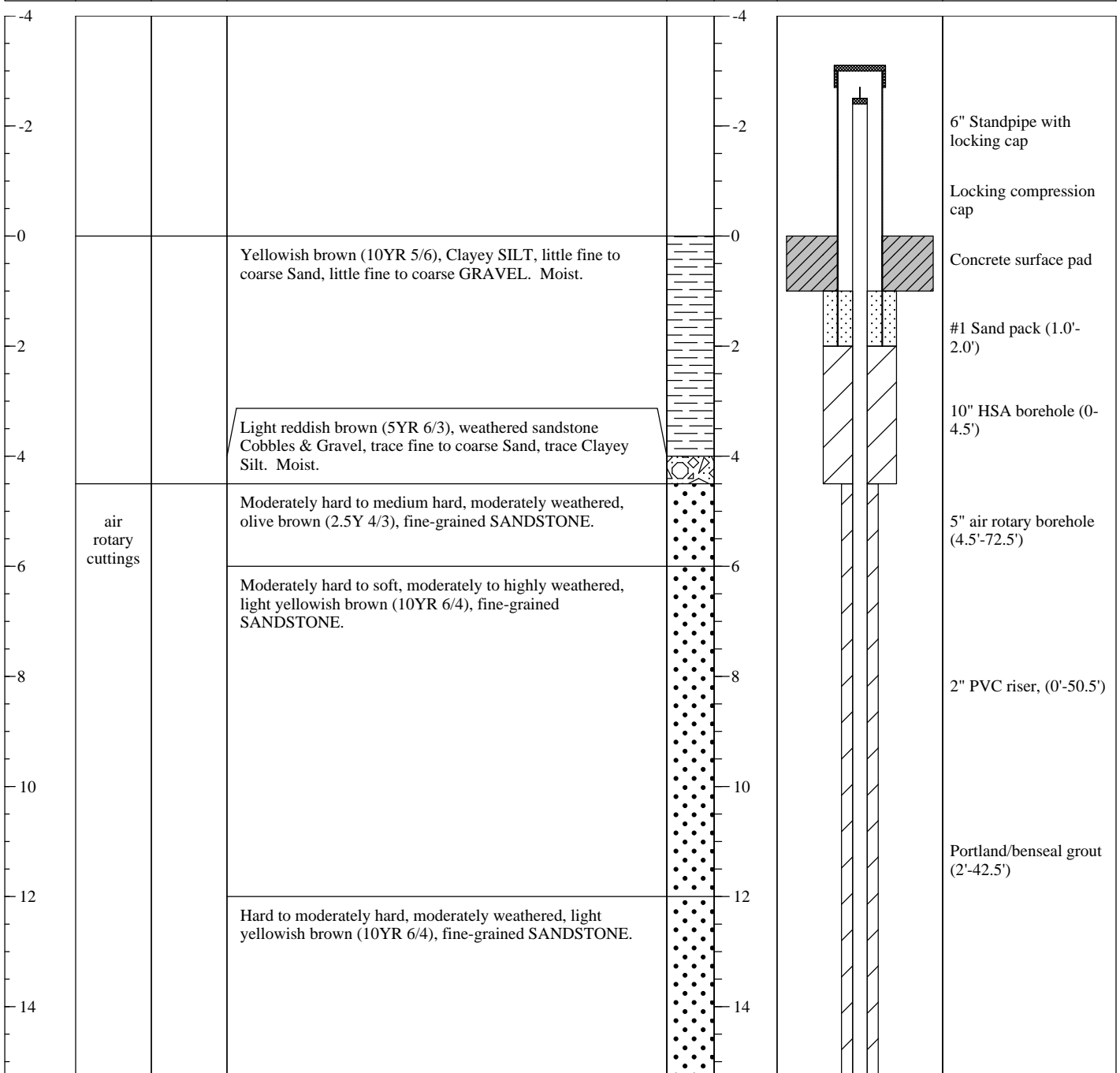
DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
40	air rotary cuttings				40		Bentonite chip annular seal (37'-40')
42					42		2" PVC riser, (0'-43')
44					44		#1 Sand pack (40'-53')
46			Wet fracture at 46.5'.		46		2" PVC 10-slot screen, (43'-53')
48			Soft zone 47.5'-48'.		48		5" air rotary borehole (10.3'-53')
50					50		
52					52		



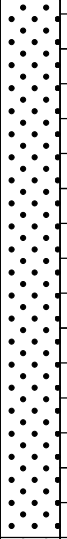



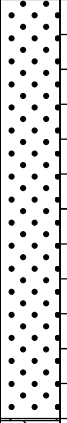



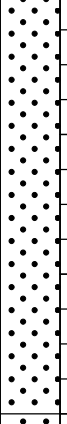



PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	<i>Harley Davidson</i>	DRILLING CO.:	<i>Eichelbergers, Inc.</i>
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>	DRILLER:	<i>Shane Albert</i>
JOB NO.:	<i>10012.26</i>	RIG TYPE:	<i>Geoprobe 7822DT</i>
LOGGED BY:	<i>R. Ulrich</i>	DRILLING METHOD:	<i>HSA, Air Rotary</i>
DATES DRILLED:	<i>11/4/14, 2/12/15</i>	DEVELOPMENT DATE:	<i>2/20/15</i>
		LOCATION:	<i>South Property Boundary Area</i>

NOTES: Vacuum excavation to 4.5'. 6 1/4 ID HSA advanced to refusal at 4.5'	SURFACE ELEVATION	418.74' AMSL
5" hammer bit advanced using air rotary to 72.5'.	EASTING	2259411.882
2" PVC monitoring well installed 2/13/15 & 2/18/15.	NORTHING	238842.029

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
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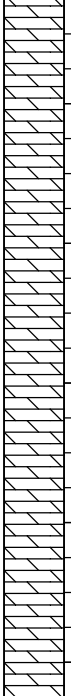
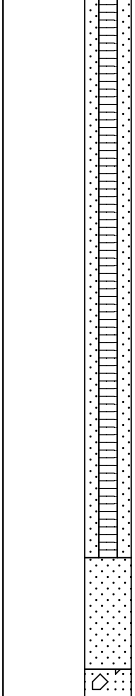


DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
16					16		
18					18		
20	air rotary cuttings				20		5" air rotary borehole (4.5'-72.5')
22					22		
24			Medium to very soft, highly weathered, dark yellowish brown (10YR 4/4), fine-grained SANDSTONE.		24		
26					26		2" PVC riser, (0'-50.5')
28					28		
30			Hard, slightly weathered, gray (N5/ to N6/), DOLOSTONE.		30		Portland/benseal grout (2'-42.5')
32			Moderately hard, moderately weathered, grayish brown (10YR 5/2), fine-grained SANDSTONE.		32		
34					34		
36					36		
38			Moderately hard, moderately weathered, grayish brown (10YR 5/2), fine-grained SANDSTONE; with interbedded		38		



DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
40	air rotary cuttings		hard, slightly weathered, gray (N5/ to N6/), DOLOSTONE.		40		Portland/benseal grout (2'-42.5')
42		2" PVC riser, (0'-50.5')					
44		Bentonite chip annular seal (42.5'-47.5')					
46							
48		#1 Sand pack (47.5'-72.1')					
50			Hard, slightly weathered, gray (N5/ to N6/), DOLOSTONE. Texture is sugary.	50		2" PVC 10-slot screen, (50.5'-70.5')	
52			Moderately hard, moderately weathered, grayish brown (10YR 5/2), fine-grained SANDSTONE.	52			
54				54		5" air rotary borehole (4.5'-72.5')	
56			Hard, slightly weathered, gray (N5/ to N6/), DOLOSTONE with sugary texture; with interbedded moderately hard, moderately weathered, grayish brown (10YR 5/2), fine-grained SANDSTONE.	56			
58				58			
60				60			
62				62			



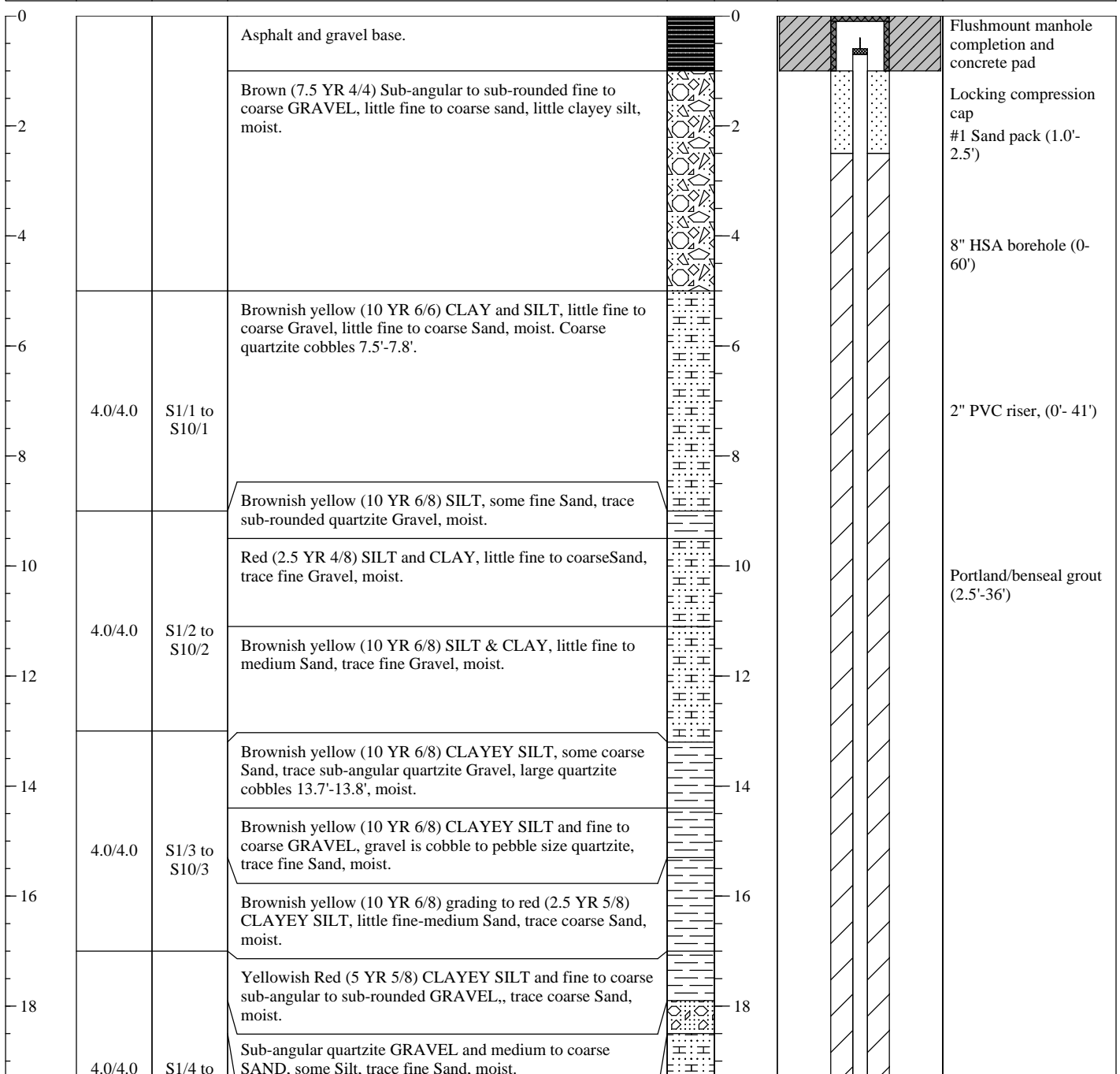
DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
64	air rotary cuttings				64		2" PVC 10-slot screen, (50.5'-70.5')
66		66	#1 Sand pack (47.5'-72.1')				
68		68	5" air rotary borehole (4.5'-72.5')				
70		70					
72		72	Collapsed formation (72.1'-72.5')				



PROJECT INFORMATION			DRILLING INFORMATION		
PROJECT:	<i>Harley Davidson</i>		DRILLING CO.:	<i>Eichelbergers, Inc.</i>	
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>		DRILLER:	<i>Shane Albert</i>	
JOB NO.:	<i>10012.26</i>		RIG TYPE:	<i>Geoprobe 7822DT</i>	
LOGGED BY:	<i>KB Fleming</i>		DRILLING METHOD:	<i>Geoprobe Dual-tube sampling</i>	
DATES DRILLED:	<i>11/12/14-11/17/14</i>		DEVELOPMENT DATE:	<i>1/7/15, 1/9/15, 1/15/15-1/16/15</i>	
			LOCATION:	<i>Northeast Canterbury Lane</i>	

NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to 60'. 4 1/4 ID HSA overdrilled to 60'. 2" PVC monitoring well installed 12/9/14.	SURFACE ELEVATION	402.79' AMSL
	EASTING	2260239.616
	NORTHING	238860.837

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
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DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20		S10/4	(5 YR 5/8) to (2.5 YR 4/8) CLAY & SILT, some fine to medium Sand, moist.		20		8" HSA borehole (0-60')
22			Gray, Coarse SAND and fine GRAVEL quartzite, moist.		22		
24	4.0/4.0	S1/5 to S10/5	Brownish yellow (10 YR 6/8) SILTY CLAY, trace fine Sand, moist.		24		2" PVC riser, (0'-41')
26			(2.5 YR 4/8) CLAYEY SILT and coarse sub-angular to sun-rounded quartzite GRAVEL, trace fine Sand, trace coarse Sand, moist.		26		
28	4.0/4.0	S1/6 to S10/6	Yellowish Red (5 YR 5/8) SILT & CLAY, some fine to medium Sand, trace fine Gravel, moist.		28		Portland/benseal grout (2.5'-36')
30			Yellowish Red (5 YR 5/8) CLAYEY SILT, little fine to medium Sand, trace coarse Sand, moist.		30		
32	4.0/4.0	S1/7 to S10/7	Yellowish Red (5 YR 5/8) fine to coarse SAND and Clay & Silt, some fine to coarse quartzite Gravel, moist.		32		Bentonite chip annular seal (36'-39')
34			Brownish yellow (10 YR 6/8) CLAY and SILT, little coarse Sand, trace fine Gravel, moist.		34		
36	4.0/4.0	S1/8 to S10/8	Brownish yellow (10 YR 6/8) CLAYEY SILT, some medium to coarse Sand, trace fine Sand, trace fine Gravel, moist.		36		#1 Sand pack (39'-52')
38			Brownish yellow (10 YR 6/8) CLAYEY SILT and fine to coarse Sand, trace fine to coarse Gravel, trace fine, moist. trace black streaking.		38		
40	4.0/4.0	S1/9 to S10/9	Brownish yellow (10 YR 6/8) CLAY & SILT, some fine to coarse Sand, little fine to coarse Gravel, moist. some black streaking, coarse Sub-rounded to sub-angular quartzite Gravel 40.6'-40.7', 42.4'-42.5', 43', 43.5', 45', 45.5'. 50'-53'. Wet at 53'.		40		2" PVC 10-slot screen, (41'-51')
42					42		



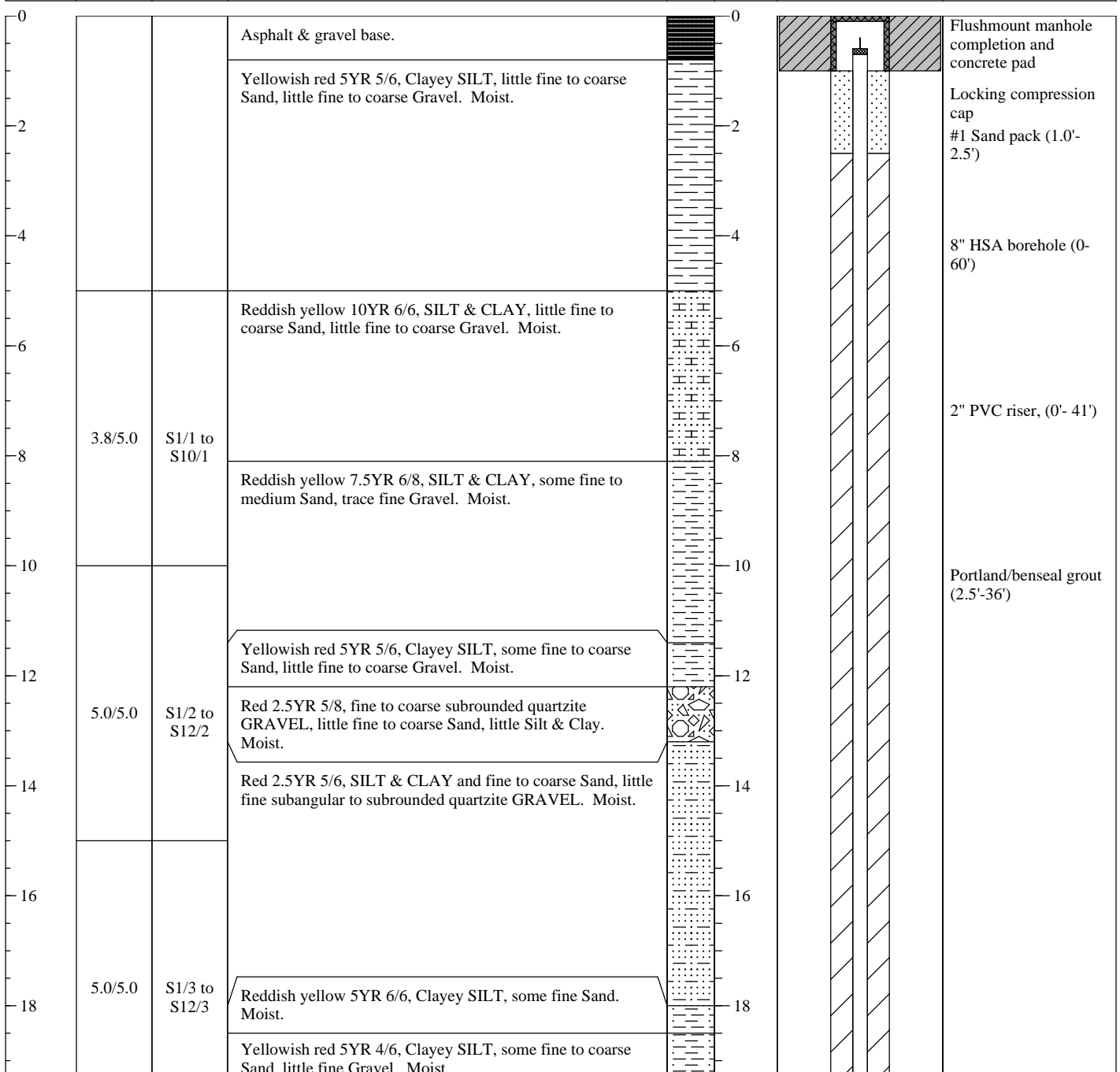
DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
44	4.0/4.0	S1/10 to S10/10			44		
46	4.0/4.0	S1/11 to S8/11			46		
48					48		#1 Sand pack (39'-52')
50	4.0/4.0	S1/12 to S8/12			50		
52			Brownish yellow (10 YR 6/8) to Yellowish Red (5 YR 5/8) fine to medium SAND and fine GRAVEL, some Clayey Silt, wet.		52		8" HSA borehole (0-60')
54	2.0/2.0	S1/13 to S4/13	Brownish yellow (10 YR 6/8) to Yellowish Red (5 YR 5/8) CLAYEY SILT and fine to medium SAND, little coarse Sand, trace fine Gravel, wet.		54		
56			Brownish yellow (10 YR 6/8) fine to coarse SAND and fine GRAVEL, some Clayey Silt, wet.		56		Bentonite chip annular seal (52'-60')
58	5.2/5.0	S1/14 to S10/14	Brownish yellow (10 YR 6/8) fine to medium SAND and CLAYEY SILT, trace coarse Gravel, wet.		58		
60			Brownish yellow (10 YR 6/8) CLAYEY SILT, some medium to coarse Sand, trace fine Sand, trace coarse Gravel, wet.		60		



PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	<i>Harley Davidson</i>	DRILLING CO.:	<i>Eichelbergers, Inc.</i>
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>	DRILLER:	<i>Shane Albert</i>
JOB NO.:	<i>10012.26</i>	RIG TYPE:	<i>Geoprobe 7822DT</i>
LOGGED BY:	<i>R. Ulrich</i>	DRILLING METHOD:	<i>HSA, Geoprobe Dual-tube sampling</i>
DATES DRILLED:	<i>11/24/14, 12/4/14</i>	DEVELOPMENT DATE:	<i>1/9/15, 1/15/15-1/16/15</i>
		LOCATION:	<i>North central Canterbury Lane</i>

NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to 60'. 4 1/4 ID HSA overdrilled to 60'. 2" PVC monitoring well installed 12/4/14-12/5/14.	SURFACE ELEVATION	399.55' AMSL
	EASTING	2260043.563
	NORTHING	238861.218

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
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DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20			Red 10R 4/6, SILT & CLAY, little fine to coarse Sand, trace fine Gravel. Moist.		20		8" HSA borehole (0-60')
22	5.0/5.0	S1/4 to S12/4	Reddish yellow 5YR 6/8, CLAY & SILT, trace fine Sand. Moist.		22		
24			Red 2.5YR 5/6, fine to coarse subangular to subrounded quartzite GRAVEL, little fine to coarse Sand, little Silt & Clay. Moist.		24		
26			Yellowish red 5YR 5/6, fine to coarse subangular to subrounded quartzite GRAVEL, little fine to coarse Sand, trace Clayey Silt. Moist.		26		2" PVC riser, (0'-41')
28	5.0/5.0	S1/5 to S12/5	Red 10R 5/8, SILT & CLAY, little fine Sand. Moist.		28		
30					30		Portland/benseal grout (2.5'-36')
32	5.0/5.0	S1/6 to S12/6			32		
34					34		
36					36		
38	5.0/5.0	S1/7 to S12/7	Red 2.5YR 5/8, SILT & CLAY, little fine to medium Sand. Moist.		38		Bentonite chip annular seal (36'-39')
40					40		#1 Sand pack (39'-52')
42	5.0/5.0	S1/8 to	Red 2.5YR 5/8, SILT & CLAY, little fine to coarse Sand, little fine to coarse subrounded to rounded Gravel. Moist.		42		2" PVC 10-slot screen, (41'-51')



DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
44		S12/8	Brownish yellow 10YR 6/6, CLAY & SILT, little fine to coarse Sand, little fine to coarse Gravel. Moist.		44		
46			Reddish yellow 7.5YR 6/6, CLAY & SILT, trace fine to coarse Sand, trace fine Gravel. Moist.		46		
48	5.0/5.0	S1/9 to S12/9	Yellowish red 5YR 5/6, SILT & CLAY, little fine to coarse Sand, little fine to coarse Gravel. Moist.		48		
50			Red 5YR 5/6, SILT & CLAY, little fine to coarse Sand, little fine to coarse Gravel. Moist.		50		
52	4.3/4.0	S1/10 to S10/10	Light yellowish brown 2.5Y 6/4, SILT & CLAY, some fine to coarse Sand, trace fine Gravel. Moist. Gravelly seam 52.5'-52.8'.		52		
54					54		
56	4.7/4.0	S1/11 to S10/11			56		
58					58		
60	4.0/2.0	N/A	Dark yellowish brown 10YR 4/4, SILT & CLAY, little fine to coarse Sand, little fine Gravel. Wet.		60		

2" PVC 10-slot screen, (41'-51')

#1 Sand pack (39'-52')

8" HSA borehole (0-60')

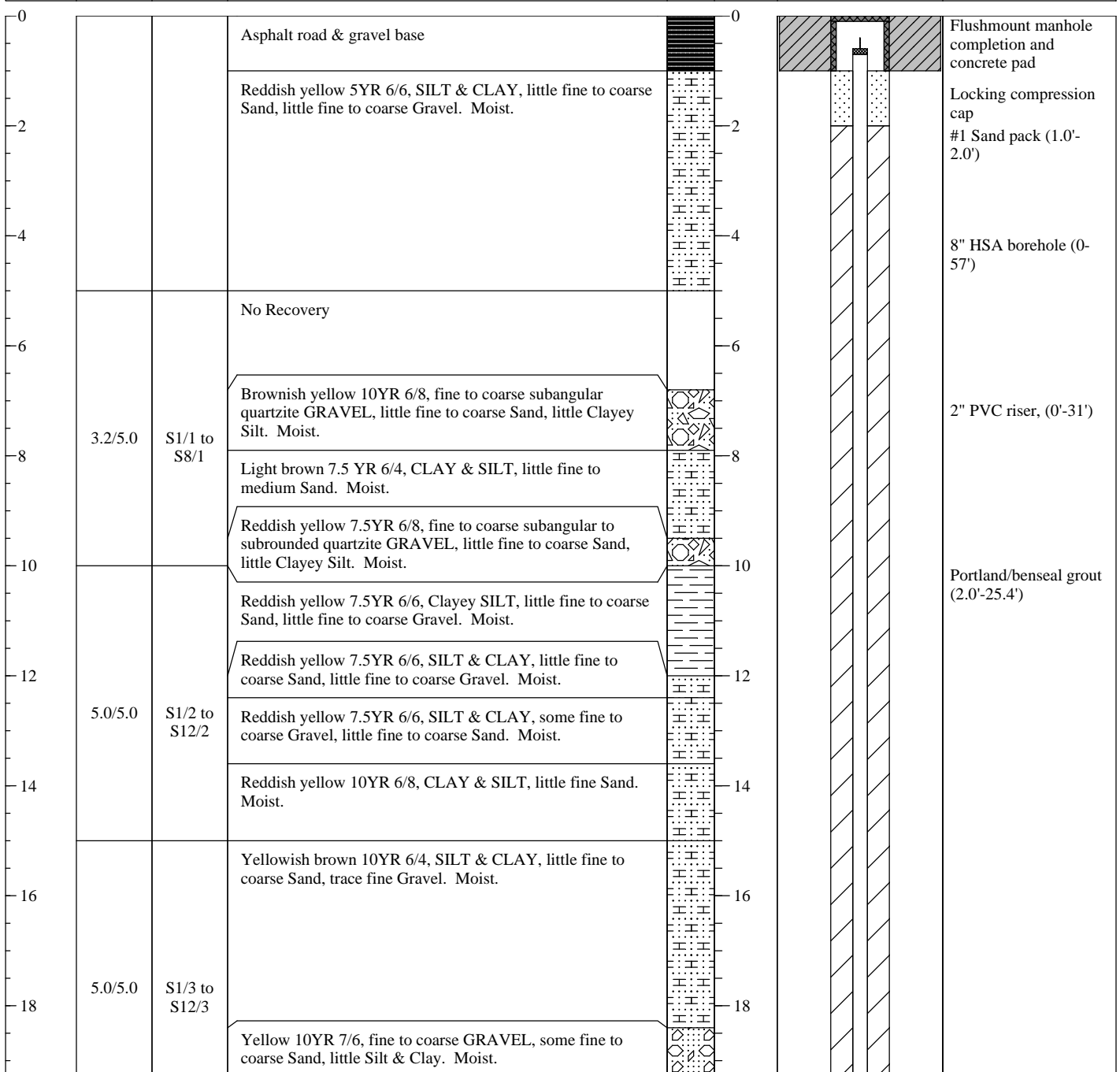
Bentonite chip annular seal (52'-60')



PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	<i>Harley Davidson</i>	DRILLING CO.:	<i>Eichelbergers, Inc.</i>
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>	DRILLER:	<i>Shane Albert</i>
JOB NO.:	<i>10012.26</i>	RIG TYPE:	<i>Geoprobe 7822DT</i>
LOGGED BY:	<i>R. Ulrich</i>	DRILLING METHOD:	<i>Geoprobe Dual-tube sampling</i>
DATES DRILLED:	<i>12/2/14-12/3/14, 12/11/14</i>	DEVELOPMENT DATE:	<i>1/7/15, 1/15/15-1/16/15</i>
		LOCATION:	<i>Northwest Canterbury Lane</i>

NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to 57'. 4 1/4 ID HSA overdrilled to 57'. 2" PVC monitoring well installed 12/11/14-12/12/14.	SURFACE ELEVATION	396.05' AMSL
	EASTING	2259872.680
	NORTHING	238861.827

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
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
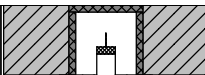

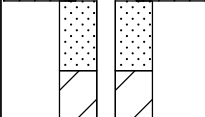


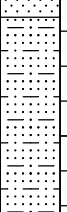


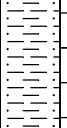
DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20	5.0/5.0	S1/4 to S12/4	Yellow 10YR 7/6, SILT & CLAY, little fine to coarse Sand, little fine Gravel. Moist.		20		2" PVC riser, (0'-31')
			Yellow 10YR 7/6, SILT & CLAY, some fine to coarse Gravel, little fine to coarse Sand. Moist.				
22			Yellowish red 5YR 5/6, CLAY & SILT, and fine to coarse Sand, trace fine Gravel. Moist.		22		
24			Yellowish red 5YR 5/6, fine to coarse subangular to subrounded quartzite GRAVEL, little fine to coarse Sand, trace Clayey Silt. Moist.		24		
26	5.0/5.0	S1/5 to S12/5	Brown 5YR 5/4, fine to coarse subangular to subrounded quartzite GRAVEL, little fine to coarse Sand, trace Clayey Silt. Moist.		26		Portland/benseal grout (2.0'-25.4')
28			Very pale brown 10YR 7/3, fine to coarse SAND, some fine to coarse Gravel, little Clayey Silt. Moist.		28		
30			Reddish yellow 5YR 7/6, fine to coarse subangular to subrounded quartzite GRAVEL, little fine to coarse Sand, little to trace Silt & Clay. Moist.		30		
32	5.0/5.0	S1/6 to S12/6	Very pale brown 10YR 7/4, fine to coarse SAND, and Silt & Clay, trace fine Gravel. Moist.		32		Bentonite chip annular seal (25.4'-28.5')
34					34		
36	5.0/5.0	S1/7 to S12/7	Reddish yellow 5YR 6/6, fine to coarse subrounded GRAVEL, little fine to coarse Sand, little Silt & Clay. Moist.		36		8" HSA borehole (0-57')
40			Reddish yellow 5YR 6/6, CLAY & SILT, some fine to coarse Sand, little fine to coarse subrounded GRAVEL. Moist.		40		
42	5.0/5.0	S1/8 to	Reddish yellow 7.5YR 6/8, SILT & CLAY, little fine to coarse Sand, little fine Gravel. Dark gray laminae 40.5'-40.9'. Wet 40'-40.4', moist below.		42		Bentonite chip annular seal (42'-57')



DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
44		S12/8	Reddish yellow 7.5YR 6/8, SILT & CLAY, some fine to coarse Gravel, little fine to coarse Sand. Moist.		44		8" HSA borehole (0-57') Bentonite chip annular seal (42'-57')
			Pale yellow 2.5Y, SILT & CLAY, little fine Sand, trace fine Gravel. Moist. Dark gray laminae 44.5'-44.7', wet.		44		
46	5.0/4.0	S1/9 to S10/9	Light brown 7.5YR 6/4, SILT & CLAY, little fine to coarse Sand, little fine Gravel. Moist, except wet 46.6'-46.8'.		46		
48					48		
50	5.0/4.0	S1/10 to S10/10	Pale brown 10YR 6/3, SILT & CLAY, little fine to coarse Sand, little fine to coarse subrounded Gravel. Moist, except Wet 49.0'-49.3' and 53.0'-53.3'.		50		
52					52		
54	5.0/4.0	S1/11 to S9/11	Pale brown 10YR 6/3, SILT & CLAY, trace fine to coarse Sand, trace fine Gravel. Moist, except Wet 54.9'-57.0'. Dark gray laminae 56.5'-56.9'.		54		
56					56		



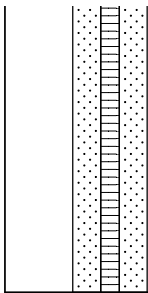
PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	<i>Harley Davidson</i>	DRILLING CO.:	<i>Eichelbergers, Inc.</i>
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>	DRILLER:	<i>Shane Albert</i>
JOB NO.:	<i>10012.26</i>	RIG TYPE:	<i>Geoprobe 7822DT</i>
LOGGED BY:	<i>R. Ulrich</i>	DRILLING METHOD:	<i>Geoprobe Dual-tube sampling</i>
DATES DRILLED:	<i>12/16/14, 2/23/15-2/25/15</i>	DEVELOPMENT DATE:	<i>3/3/15</i>
		LOCATION:	<i>Southeast Canterbury Lane</i>
NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to 40'. 6 1/4 ID HSA overdrilled to 30', 4 1/4 augers to 47'. 2" PVC monitoring well installed 2/25/15.		SURFACE ELEVATION	389.87 AMSL
		EASTING	2260197.951
		NORTHING	238579.721

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0			Asphalt Road & gravel base		0		Flushmount manhole completion and concrete pad
2			Reddish yellow 7.5YR 6/6, fine to coarse subangular to subrounded GRAVEL, little fine to coarse Sand, little Silt & Clay. Moist.		2		Locking compression cap #1 Sand pack (1.0'-2.0')
4					4		10" HSA borehole (0-30')
6			No Recovery.		6		2" PVC riser, (0'-37')
8	2.0/5.0	S1/1 to S6/1	Red 2.5 YR 5/8, fine to coarse subangular quartzite GRAVEL, little fine to coarse Sand, little Silt & Clay. Wet.		8		
10			Reddish yellow 5YR 6/8, fine to coarse (predominantly fine) SAND, little Clayey Silt, trace fine Gravel. Moist.		10		Portland/benseal grout (2.0'-31.9')
12	3.2/5.0	S1/2 to S8/2	Reddish yellow 5YR 6/6, SILT & CLAY, and fine to coarse Sand, trace fine Gravel. Moist.		12		
14			No Recovery.		14		
16			Reddish yellow 5YR 6/8, fine SAND, some Clayey Silt. Moist.		16		
18	4.9/5.0	S1/3 to S12/3	Reddish yellow 5YR 6/8, SILT & CLAY, some fine Sand. Moist.		18		
			Reddish yellow 5YR 6/8, SILT & CLAY, some fine Sand. Seam of fine to coarse Sand, little Silt 18.3-18.5. Moist.				



DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20			Reddish yellow 5YR 6/8, fine SAND, little Clayey Silt. Wet.		20		10" HSA borehole (0'-30')
22	4.8/5.0	S1/4 to S12/4	Light yellowish brown 10YR 6/4, SILT & CLAY, little fine Sand. Moist.		22		
24			Light yellowish brown 10YR 6/4, Clayey SILT, little fine Sand. Moist.		24		2" PVC riser, (0'-37')
26			Light yellowish brown 10YR 6/4, SILT & CLAY, trace fine Sand. Moist.		26		
28	5.0/5.0	S1/5 to S12/5	Light yellowish brown 10YR 6/4, SILT & CLAY, little fine Sand. Moist.		28		Portland/benseal grout (2.0'-31.9')
30			Yellow 10YR 7/6, SILT & CLAY, and fine to coarse Sand, little fine Gravel. Moist.		30		
32			Reddish yellow 7.5 YR 6/8, SILT & CLAY, little fine Sand. Moist.		32		8" HSA borehole (30'-47')
34	5.0/5.0	S1/6 to S12/6	Reddish yellow 5YR 6/6, fine to coarse GRAVEL, some fine to coarse Sand, little Clayey Silt. Moist, except wet below 35'.		34		Bentonite chip annular seal (31.9'-35.2')
36					36		
38	4.8/5.0	S1/7 to S12/7	Reddish yellow 5YR 6/6, fine to coarse GRAVEL, some fine to coarse Sand, trace Silt. Wet.		38		#1 Sand pack (35.2'-47')
40			Borehole deepened, soil was not sampled.		40		2" PVC 10-slot screen, (37'-47')
42					42		



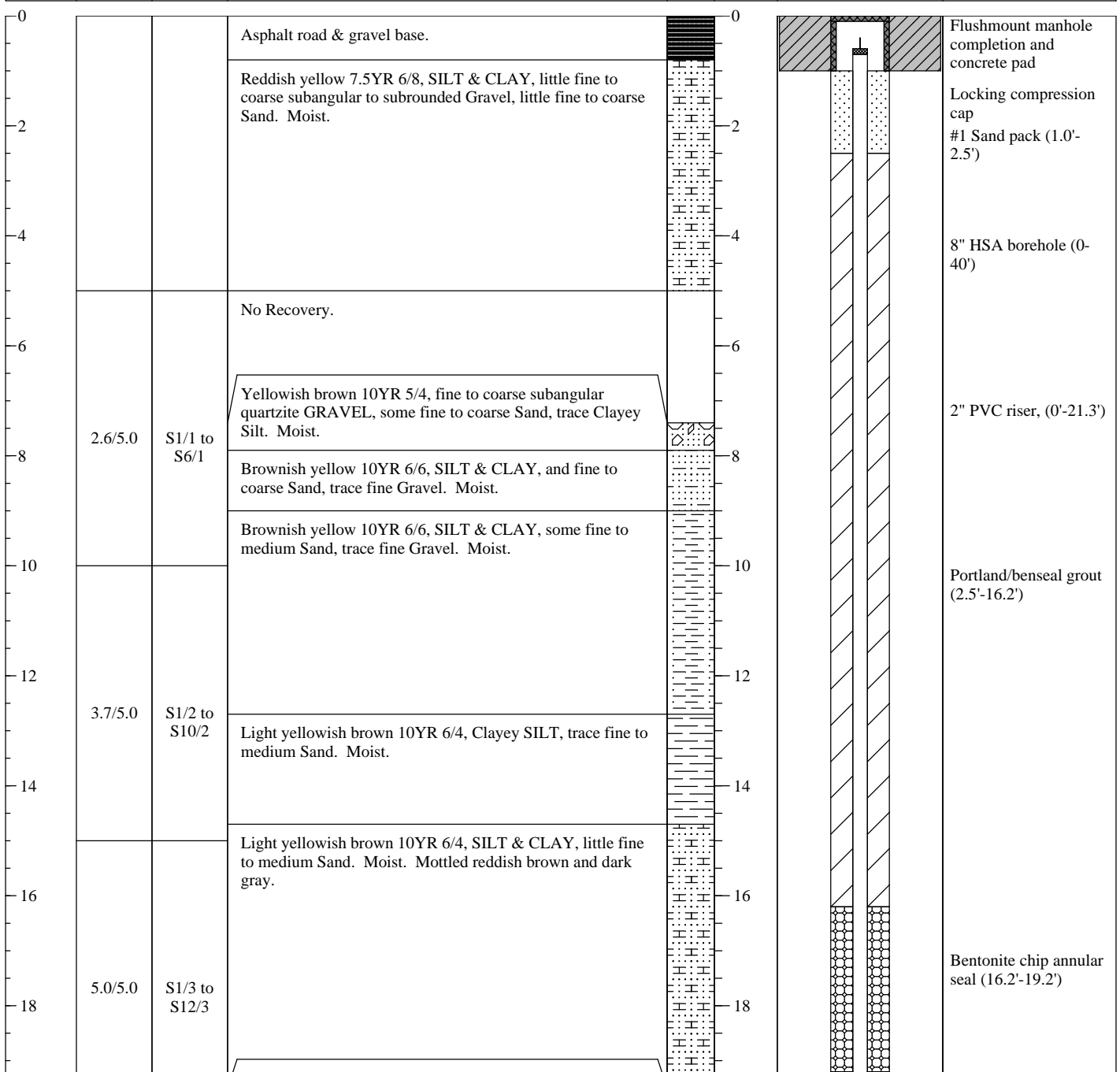
DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
44 46	N/A	N/A			44 46		8" HSA borehole (30'-47') #1 Sand pack (35.2'-47') 2" PVC 10-slot screen, (37'-47')



PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	<i>Harley Davidson</i>	DRILLING CO.:	<i>Eichelbergers, Inc.</i>
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>	DRILLER:	<i>Shane Albert</i>
JOB NO.:	<i>10012.26</i>	RIG TYPE:	<i>Geoprobe 7822DT</i>
LOGGED BY:	<i>R. Ulrich</i>	DRILLING METHOD:	<i>Geoprobe Dual-tube sampling</i>
DATES DRILLED:	<i>12/16/14, 12/19/14</i>	DEVELOPMENT DATE:	<i>1/14/15, 1/16/15</i>
		LOCATION:	<i>South central Canterbury Lane</i>

NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to 40'. 4 1/4 ID HSA overdrilled to 40'. 2" PVC Monitoring Well Constructed 12/19/14.	SURFACE ELEVATION	385.96' AMSL
	EASTING	2259962.593
	NORTHING	238575.643

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
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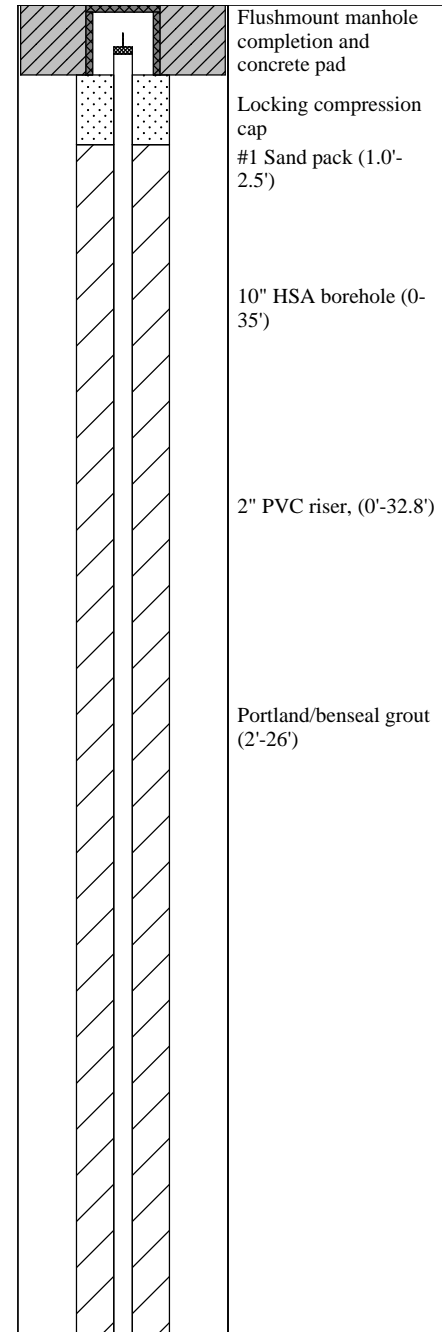
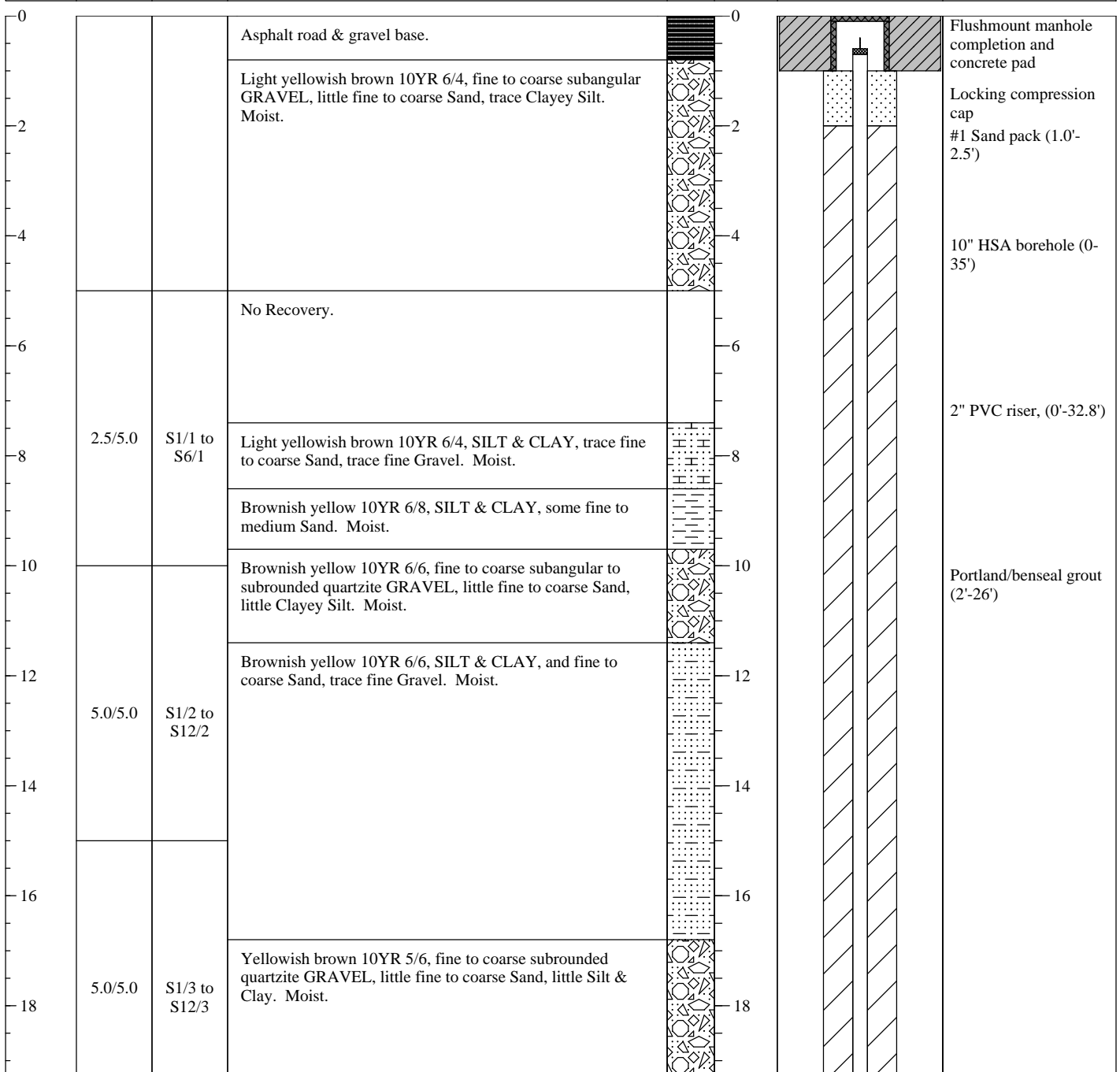
DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS	
20	5.0/5.0	S1/4 to S12/4	Light yellowish brown 10YR 6/4, SILT & CLAY, trace fine to coarse Sand, trace fine Gravel. Moist.		20		#1 Sand pack (19.2'-32.3')	
			Reddish yellow 5YR 6/6, SILT & CLAY, little fine Sand. Moist.		22			
22			Reddish yellow 5YR 6/6, SILT & CLAY, little fine subrounded quartzite Gravel, trace fine Sand. Moist.		24			2" PVC 10-slot screen, (21.3'-31.3')
24	Light brown 7.5YR 6/4, fine to coarse quartzite GRAVEL, little fine to coarse Sand, little Silt & Clay. Moist.	26						
26	5.0/5.0	S1/5 to S12/5	Light brown 7.5YR 6/4, fine to coarse quartzite GRAVEL, little fine to coarse Sand, trace Clayey Silt. Moist.	26				
28			Yellow 10YR 7/6, SILT & CLAY, some fine to medium Sand, trace fine Gravel. Moist.	28	8" HSA borehole (0-40')			
30	5.0/5.0	S1/6 to S12/6	Pale brown 10YR 6/3, SILT & CLAY, trace fine to coarse Sand, trace fine Gravel. Wet.	30				
32				32				
34			Pale brown 10YR 6/3, SILT & CLAY, little fine to coarse Gravel, trace fine to coarse Sand. Wet.	34	Bentonite chip annular seal (32.3'-40')			
36	5.0/5.0	S1/7 to S8/7	Light yellowish brown 10YR 6/4, SILT & CLAY, little fine to coarse Sand, little fine to coarse quartzite Gravel. Wet.	36				
38				38				
40				40				



PROJECT INFORMATION			DRILLING INFORMATION		
PROJECT:	<i>Harley Davidson</i>		DRILLING CO.:	<i>Eichelbergers, Inc.</i>	
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>		DRILLER:	<i>Shane Albert</i>	
JOB NO.:	<i>10012.26</i>		RIG TYPE:	<i>Geoprobe 7822DT</i>	
LOGGED BY:	<i>R. Ulrich</i>		DRILLING METHOD:	<i>6 1/4" ID HSA to 35', 5" Air Rotary to 45.5'</i>	
DATES DRILLED:	<i>12/17/14, 1/16/15, 1/20/15-1/21/15</i>		DEVELOPMENT DATE:	<i>2/13/15</i>	
			LOCATION:	<i>Southwest Canterbury Lane</i>	

NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to 34.8'. 6 1/4 ID HSA overdrilled to 35'. 5" hammer bit advanced with air rotary to 45.5'. Well constructed 1/21/15-1/22/15.	SURFACE ELEVATION	387.01' AMSL
	EASTING	2259762.499
	NORTHING	238616.679

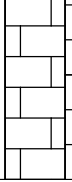
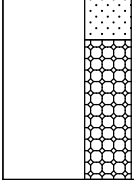
DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
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DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20			Grayish brown 10YR 5/2, SILT & CLAY, some fine to coarse Sand, trace fine Gravel. Moist. Mottled brownish yellow.		20		10" HSA borehole (0'-35')
22	5.0/5.0	S1/4 to S12/4	Grayish brown 10YR 5/2, fine to coarse subrounded GRAVEL, some Silt & Clay, little fine to coarse Sand. Moist.		22		
24			Grayish brown 10YR 5/2, SILT & CLAY, little fine to medium Sand, trace fine Gravel. Moist to 22.5'. Wet 22.5'-23.8'. Gravelly at base.		24		Portland/benseal grout (2'-26')
26			Yellowish brown 10YR 5/6, fine to coarse subrounded quartzite GRAVEL, little fine to coarse Sand, little Silt & Clay. Moist.		26		
28	5.0/5.0	S1/5 to S12/5	Yellowish brown 10YR 5/6, SILT & CLAY, trace fine to medium Sand. Moist.		28		Bentonite chip annular seal (26'-30.8')
30			Mottled light & dark brown, light & dark gray, and orange, Clayey SILT, little fine to medium Sand. Wet.		30		
32			Light yellowish brown 10YR 6/4, fine to coarse subrounded quartzite GRAVEL, little fine to coarse Sand, little Silt & Clay. Moist.		32		2" PVC riser, (0'-32.8')
34	5.0/5.0	S1/6 to S12/6	Brownish yellow 10YR 6/6, CLAY & SILT. Moist.		34		
36			Brownish yellow 10YR 6/6, fine to coarse subrounded GRAVEL, some fine to coarse Sand, little Silt & Clay. Wet.		36		
38	No Recovery	N/A	Mottled as 26.5'-28.5', CLAY & SILT, trace fine Sand. Wet.		38		#1 Sand pack (30.8'-43.5')
40			No Recovery.		40		2" PVC 10-slot screen, (32.8'-42.8')
42			Hard to moderately hard, fresh, N5/ gray, LIMESTONE. Wet.		42		17" dia. annular opening from air lift (35'-40')
							5" air rotary borehole (40'-45.5')



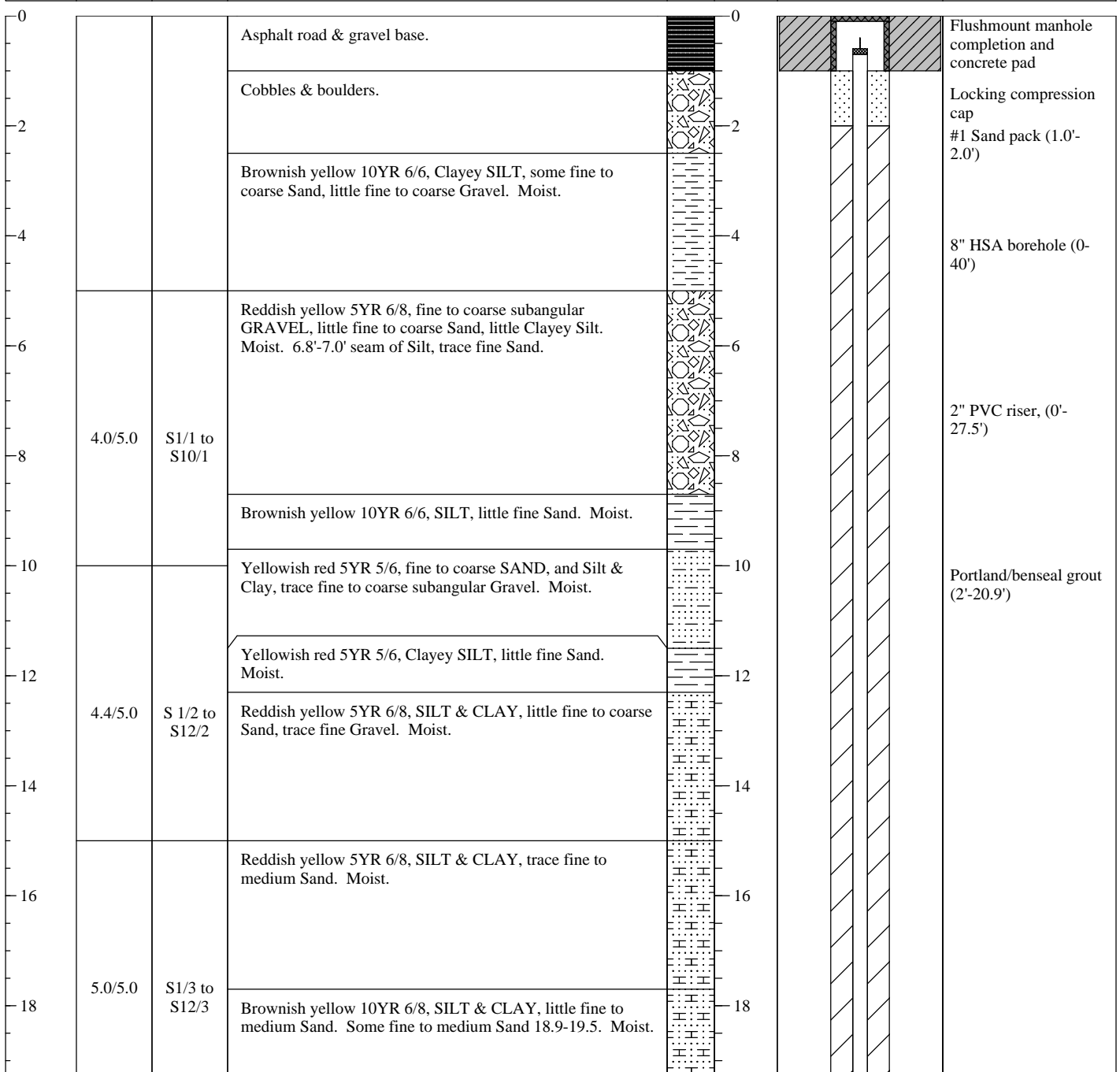
DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
44					44		5" air rotary borehole (40'-45.5') Bentonite chip annular seal (43.5'-45.5')



PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	<i>Harley Davidson</i>	DRILLING CO.:	<i>Eichelbergers, Inc.</i>
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>	DRILLER:	<i>Shane Albert</i>
JOB NO.:	<i>10012.26</i>	RIG TYPE:	<i>Geoprobe 7822DT</i>
LOGGED BY:	<i>R. Ulrich</i>	DRILLING METHOD:	<i>Geoprobe Dual-tube sampling</i>
DATES DRILLED:	<i>11/25/14, 12/8/14</i>	DEVELOPMENT DATE:	<i>1/14/15-1/16/15</i>
		LOCATION:	<i>East Old Arsenal Road</i>

NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to 40'. 4 1/4 ID HSA overdrilled to 40'. 2" PVC monitoring well installed 12/8/14.	SURFACE ELEVATION	385.48' AMSL
	EASTING	2260196.735
	NORTHING	238253.888

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
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
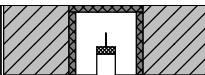

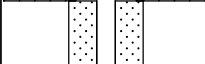

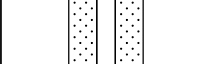
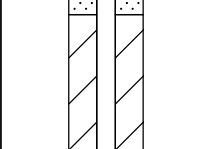

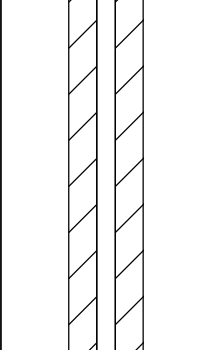

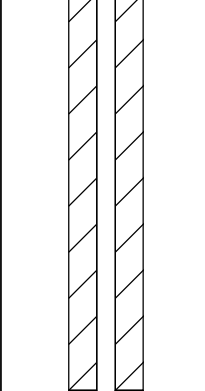

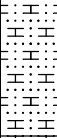
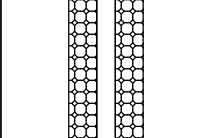
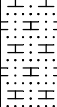




DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20					20		Portland/benseal grout (2'-20.9')
22	4.6/5.0	S 1/4 to S 12/4	Light yellowish brown 10YR 6/4, fine to coarse SAND, and Silt & Clay, some fine to coarse subangular quartzite Gravel. Moist.		22		Bentonite chip annular seal (20.9'-23.9')
24					24		2" PVC riser, (0'-27.5')
26					26		
28	4.4/5.0	S 1/5 to S 11/5	Light yellowish brown 10YR 6/4, fine to coarse subangular quartzite GRAVEL, little fine to coarse Sand, trace Silt. Moist.		28		#1 Sand pack (23.9'-38.5')
30			Light yellowish brown 10YR 6/4, fine to coarse SAND and Silt & Clay, some fine subangular quartzite Gravel. Moist.		30		2" PVC 10-slot screen, (27.5'-37.5')
32					32		
34	5.0/5.0	S 1/6 to S 12/6	Yellow 10YR 7/6, SILT & CLAY, little fine Gravel, little fine to coarse Sand. Moist.		34		8" HSA borehole (0'-40')
36			Yellowish brown 10YR 5/4, CLAY & SILT, trace fine to coarse Sand, trace fine Gravel. Wet.		36		
38	5.0/5.0	S 1/7 to S 12/7	Yellowish brown 10YR 5/4, fine to coarse subangular Gravel, little fine to coarse Sand, little Clayey Silt. Wet.		38		Bentonite chip annular seal (38.5'-40')
40			Yellowish brown 10YR 5/4, SILT & CLAY, little fine to coarse Sand, trace fine Gravel. Wet.		40		
			Yellowish brown 10YR 5/4, Clayey SILT, little fine to coarse Sand, little fine to coarse Gravel. Wet.				



PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	<i>Harley Davidson</i>	DRILLING CO.:	<i>Eichelbergers, Inc.</i>
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>	DRILLER:	<i>Shane Albert</i>
JOB NO.:	<i>10012.26</i>	RIG TYPE:	<i>Geoprobe 7822DT</i>
LOGGED BY:	<i>R. Ulrich</i>	DRILLING METHOD:	<i>Geoprobe Dual-tube sampling</i>
DATES DRILLED:	<i>12/1/14, 12/10/14</i>	DEVELOPMENT DATE:	<i>1/9/15, 1/13/15, 1/15/15</i>
		LOCATION:	<i>East central Old Arsenal Road at Canterbury Lane</i>
NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to 40'. 4 1/4 ID HSA overdrilled to 40'. 2" PVC monitoring well installed 12/10/14.		SURFACE ELEVATION	382.07' AMSL
		EASTING	2259945.012
		NORTHING	238249.237

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0			Asphalt road & gravel base.		0		Flushmount manhole completion and concrete pad
			Cobbles & gravel.				Locking compression cap
2			Pale brown 10YR 6/3, subangular to subrounded fine to coarse GRAVEL, little fine to coarse Sand, little Clayey Silt. Moist.		2		#1 Sand pack (1.0'-3.0')
4					4		8" HSA borehole (0-40')
6			Reddish yellow 7.5 YR 6/6, fine to coarse subangular to subrounded GRAVEL, little fine to coarse Sand, little Clayey Silt. Moist.		6		
8	3.3/5.0	S1/1 to S9/1			8		2" PVC riser, (0'-21.6')
10			Brown 7.5 YR 5/4, SILT & CLAY and fine to coarse Sand, trace fine subangular to subrounded Gravel. Moist.		10		Portland/benseal grout (3'-15.5')
12	4.5/5.0	S 1/2 to S12/2			12		
14			Reddish yellow 7.5YR 6/6, Clayey SILT, little fine to coarse Sand, trace fine Gravel. Moist.		14		
16			Reddish yellow 7.5YR 6/6, SILT & CLAY, trace fine Sand. Moist.		16		Bentonite chip annular seal (15.5'-18.7')
18	4.9/5.0	S1/3 to S12/3	Yellowish brown 10YR 5/4, SILT & CLAY, little fine to coarse Sand, trace fine Gravel. Moist.		18		



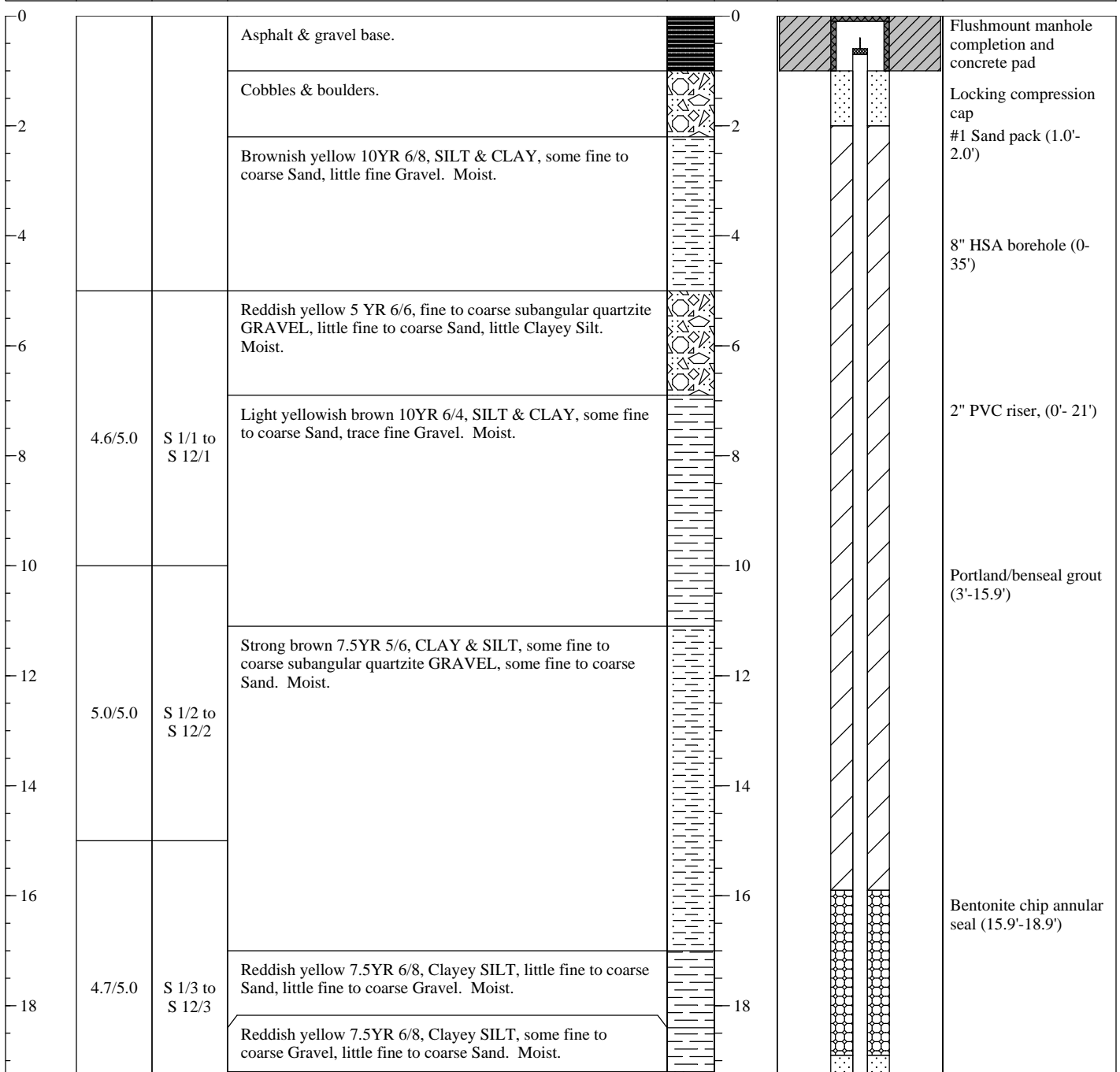
DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20	5.0/5.0	S 1/4 to S 12/4	Yellowish brown 10YR 5/4, fine to coarse SAND, little fine to coarse Gravel, little Silt & Clay. Moist.		20		#1 Sand pack (18.7'-32.8') 2" PVC 10-slot screen, (21.6'-31.6') 8" HSA borehole (0-40') Bentonite chip annular seal (32.8'-40')
22			Brownish yellow 10YR 6/6, SILT & CLAY, little fine to medium Sand. Moist.		22		
24			Brownish yellow 10YR 6/6, SILT & CLAY, little fine to coarse Sand, trace fine Gravel. Moist.		24		
26	5.0/5.0	S 1/5 to S 11/5	Brownish yellow 10YR 6/6, SILT & CLAY, some fine to coarse Sand, trace fine Gravel. Moist.		26		
28			Brownish yellow 10YR 6/6, SILT & CLAY, little fine to coarse Sand, trace fine Gravel. Moist.		28		
30			Brownish yellow 10YR 5/6, SILT & CLAY, some fine to coarse Sand, trace fine Gravel. Moist.		30		
32	5.0/5.0	S 1/6 to S 12/6	Light yellowish brown 10YR 6/4, fine to coarse subangular quartzite GRAVEL, little fine to coarse Sand, little Clayey Silt. Moist.		32		
34					34		
36	5.0/5.0	S 1/7 to S 12/7	Light yellowish brown 2.5Y 6/4, fine to coarse SAND, little Clayey Silt, little fine to coarse Gravel. Wet.		36		
38			Light yellowish brown 10YR 6/4, fine to coarse GRAVEL, little fine to coarse Sand, little Silt & Clay. Moist.		38		
40					40		



PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	<i>Harley Davidson</i>	DRILLING CO.:	<i>Eichelbergers, Inc.</i>
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>	DRILLER:	<i>Shane Albert</i>
JOB NO.:	<i>10012.26</i>	RIG TYPE:	<i>Geoprobe 7822DT</i>
LOGGED BY:	<i>R. Ulrich</i>	DRILLING METHOD:	<i>Geoprobe Dual-tube sampling</i>
DATES DRILLED:	<i>12/1/14, 12/15/14</i>	DEVELOPMENT DATE:	<i>1/13/15, 1/15/15-1/16/16</i>
		LOCATION:	<i>West central Old Arsenal Road</i>

NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to 35'. 4 1/4 ID HSA overdrilled to 35'. 2" PVC monitoring well installed 12/15/14.	SURFACE ELEVATION	379.01' AMSL
	EASTING	2259640.885
	NORTHING	238247.838

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
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DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
20	5.0/5.0	S 1/4 to S 12/4	Reddish yellow 7.5YR 6/8, fine to coarse subangular to subrounded GRAVEL, some Clayey Silt, little fine to coarse Sand. Moist.		20		#1 Sand pack (18.9'-31.8')
22			Brownish yellow 10YR 6/6, CLAY & SILT, little fine to coarse Sand, trace fine Gravel. Moist.		22		
24	5.0/5.0	S 1/5 to S 11/5	Reddish yellow 7.5YR 6/6, SILT & CLAY, some fine to coarse Sand, little fine Gravel. Moist.		26	2" PVC 10-slot screen, (21'-31')	8" HSA borehole (0-35')
28			Reddish yellow 7.5YR 6/6, SILT & CLAY, little fine to coarse Sand, trace fine to coarse subrounded quartzite Gravel. Moist.		28		
30	4.3/5.0	S 1/6 to S 12/6	Reddish yellow 7.5YR 6/6, SILT & CLAY, little fine to coarse Sand, little fine Gravel. Wet.		30	Bentonite chip annular seal (31.8'-35')	
32			Reddish yellow 7.5YR 6/6, SILT & CLAY, some fine to coarse Sand, trace fine Gravel. Wet.		32		
34		Soil sample not recovered.	34				



PROJECT INFORMATION		DRILLING INFORMATION	
PROJECT:	<i>Harley Davidson</i>	DRILLING CO.:	<i>Eichelbergers, Inc.</i>
SITE LOCATION:	<i>Former York Naval Ordnance Plant, York, PA</i>	DRILLER:	<i>John Peters</i>
JOB NO.:	<i>10012.26</i>	RIG TYPE:	<i>Geoprobe 7822DT</i>
LOGGED BY:	<i>R. Ulrich</i>	DRILLING METHOD:	<i>Geoprobe Dual-tube sampling</i>
DATES DRILLED:	<i>1/5/15, 1/7/15</i>	DEVELOPMENT DATE:	<i>1/13/15-1/14/15</i>
		LOCATION:	<i>West Old Arsenal Road at cul-de-sac</i>

NOTES: Vacuum excavation to 5'. 3" dia dual-tube direct push macrocore advanced to 37'. 4 1/4 ID HSA overdrilled to 37'. 2" PVC monitoring well installed 1/7/15.	SURFACE ELEVATION	376.49' AMSL
	EASTING	2259407.100
	NORTHING	238248.740

DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS
0			Asphalt road & gravel base.		0		Flushmount manhole completion and concrete pad
2			Gravel & cobbles.		2		Locking compression cap
4			Light yellowish brown 10YR 6/4, subangular fine to coarse GRAVEL, little fine to coarse Sand, trace Clayey Silt. Moist.		4		#1 Sand pack (1.0'-2.0')
6			No Recovery.		6		8" HSA borehole (0-37')
8	4.2/5.0	S 1/1 to S 10/1	Brownish yellow 10YR 6/6, fine to coarse subangular quartzite GRAVEL, little fine to coarse Sand, trace Clayey Silt. Moist.		8		2" PVC riser, (0'-18.8')
10			Brownish yellow 10YR 6/6, CLAY & SILT, and fine to coarse Sand, some fine to coarse subangular quartzite Gravel. Moist.		10		Portland/benseal grout (2'-12.2')
12	4.5/5.0	S 1/2 to S 12/2	Very pale brown 10YR 7/3, fine to coarse subangular quartzite GRAVEL, little fine to coarse Sand, little Silt & Clay. Moist.		12		
14			Light gray 2.5Y 7/2, fine to coarse SAND, trace fine Gravel, trace Silt. Moist.		14		
16			Pale yellow 2.5Y 7/3, fine to coarse SAND, some fine to coarse Gravel, trace Silt. Moist.		16		Bentonite chip annular seal (12.2'-16.6')
18	3.9/5.0	S 1/3 to S 10/3	Pale yellow 2.5Y 7/3, fine to coarse SAND, some fine Gravel, some Silt & Clay. Moist.		18		
			No Recovery.				
			Grayish brown 10YR 6/2, fine to coarse subangular GRAVEL, little fine to coarse Sand, trace Clayey Silt. Moist.				#1 Sand pack (16.6'-29.8')
			White quartzite cobble.				
			White fine to coarse GRAVEL, trace fine to coarse Sand, trace Clayey Silt. Moist.				2" PVC 10-slot screen, (18.8'-28.8')



DEPTH FEET	RECOVERY	SAMPLE	SOIL DESCRIPTION	GRAPHIC	DEPTH FEET	WELL CONSTRUCTION	WELL CONSTRUCTION DETAILS	
20	5.0/5.0	S 1/4 to S 12/4	Brownish yellow 10YR 6/6, fine to coarse SAND, some Clay & Silt, little fine Gravel. Moist.		20		2" PVC 10-slot screen, (18.8'-28.8')	
			Brownish yellow 10YR 6/6, fine to coarse SAND, some Clayey Silt, trace fine Gravel. Moist.		22			
22			Yellow 10YR 7/6, fine to coarse subangular to subrounded quartzite GRAVEL, little fine to coarse Sand, little Clayey Silt. Moist.					
			Reddish yellow 7.5YR 6/6, CLAY & SILT, some fine to coarse Sand, trace fine Gravel. Moist.		24			
24	5.0/5.0	S 1/5 to S 11/5	Brown 7.5YR 6/4, fine to coarse SAND, some Clay & Silt, some fine to coarse subangular to subrounded GRAVEL. Moist.	24	#1 Sand pack (16.6'-29.8')			
			Brown 7.5YR 5/4, Clayey SILT, some fine to coarse Gravel, little fine to coarse Sand, Wet. Dark gray silty seams.	26				
26			Brown 7.5YR 6/4, fine to coarse GRAVEL, little fine to coarse Sand, little Clayey Silt. Moist.					
			Brownish yellow 10YR 6/6, SILT & CLAY and fine to coarse subangular to subrounded quartzite GRAVEL, little fine to coarse Sand. Moist.	28				
28	5.0/5.0	S 1/6 to S 10/6	Brownish yellow 10YR 6/6, Clayey SILT, little fine to medium Sand. Wet. 1" sandy, gravelly seam at 29.7'.	28				8" HSA borehole (0-37')
			Brownish yellow 10YR 6/6, SILT & CLAY, some fine to coarse subangular to subrounded quartzite GRAVEL, little fine to coarse Sand. Moist.	30				
30			Brownish yellow 10YR 6/6, fine to coarse subrounded GRAVEL, some fine to coarse Sand, little Clayey Silt. Moist to 32.3'. Wet below 32.3'.					
			Brownish yellow 10YR 6/6, fine to coarse subrounded GRAVEL and fine to coarse Sand, little Clayey Silt. Wet.	32				
32	1.9/2.0	N/A	Brownish yellow 10YR 6/6, fine to coarse subrounded GRAVEL and fine to coarse Sand, little Clayey Silt. Wet.	32		Bentonite chip annular seal (29.8'-37')		
			Brownish yellow 10YR 6/6, fine to coarse subrounded GRAVEL and fine to coarse Sand, trace Clayey Silt. Wet.	34				
34			Brownish yellow 10YR 6/6, fine to coarse subrounded GRAVEL and fine to coarse Sand, little Clayey Silt. Wet.					
36			Brownish yellow 10YR 6/6, fine to coarse subrounded GRAVEL and fine to coarse Sand, little Clayey Silt. Wet.	36				
			Yellowish brown 10YR 5/6, SILT & CLAY, little fine to coarse Sand, trace fine Gravel. Wet.					