



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
 Surface Elevation: \_\_\_\_\_  
 Casing Below Surface: \_\_\_\_\_  
 Reference Elevation: \_\_\_\_\_  
 Reference Desc: \_\_\_\_\_

Job. No. 62196.08	Client: Montgomery County DEP	Location: Gude Landfill
Drilling Method: Hollow Stem Auger Air Rotary	Boring No. MW-1	
Sampling Method: Continuous SplitSpoons	Sheet 1 of 2	
Water Level		Start
Time	-	Finish
Date		1314
Reference		6/3/10 1440

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions: Topsoil
0-2	24/11			0.0	2	1	SM SP	0-4" Dark brown fine SILTY SAND (topsoil). Dense, dry, well sorted.
					2			4-11" Moderate yellowish brown fine SAND, little silt and coarse sand.
					3			Dense, dry, well sorted.
					3	2		
2-4	24/20			0.0	3	3	SP	0-20" Moderate yellowish brown fine SAND, little coarse sand and silt.
					4			Dense, dry, well sorted.
					5	4		
					3		SP	0-16" Light reddish brown fine SAND, little coarse sand, trace silt.
4-6	24/16			0.0	4	5		Dense, dry, well sorted.
					4			
					3	6		
6-8	24/20			0.0	3	7	SM	0-20" Yellowish brown very fine SAND and SILT, little clay. Dense, dry, well sorted.
					4			
					3	8		
8-10	24/22			0.0	2	9	SP	0-22" Yellowish brown very fine SAND, little silt. Dense. Slightly moist well sorted.
					4			
					3	10		
10-12	24/19			0.0	3	11	SP	0-19" Brownish yellow very fine SAND, some silt, little coarse sand/saprolite. Dense, slightly moist, moderately well sorted.
					3			
					10	12		
12-14	24/23			0.0	5	13	SM	0-7" Brownish yellow very fine SAND and SILT, little clay. Dense, dry, well sorted.
					11			
					14	14	SP	7-23" Yellowish red fine SAND, little silt and saprolite. Dense, dry, well sorted.
					12			
14-16	24/24		Gude-MW1B SO-14-16	0.0	4	15	ML SP	0-5" Brownish yellow SILT, little fine sand. Dense, dry, well sorted.
					6			5-24" Red medium to coarse SAND/SAPROLITE. Dense, dry, well sorted.
					12			
					12	16		
16-18	24/15			0.0	14	17	SP	0-15" Yellowish red fine to medium SAND, little silt. Dense, dry, well sorted.
					25			
					50/5	18		
18-20	24/19			0.0	11	19	ML SP	0-8" Yellowish red fine SANDY SILT. Dense, dry, well sorted.
					27			8-19" Light yellowish brown fine to medium SAND, little coarse sand.
					50/5	20		Dense, dry, well sorted.

Logged by: Joseph Sawicki

Date: 6/3/2010-6/4/2010

Drilling Contractor: Summit Site Services

Driller: Chad Chism



EA Engineering, Science,  
and Technology, Inc.

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### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
	Air Rotary	MW-1
Sampling Method:		Sheet 2 of 2
	Continuous SplitSpoons	Drilling
Water Level		Start
Time	-	Finish
Date		1314
Reference		6/3/10 1440

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions: Topsoil
20-22	24/18			0.0	12 25 35 42	21	SP	0-18" Brown fine to medium SAND, little coarse sand/saprolite. Dense, dry, well sorted.
22-24	24/17			0.0	10 19 50/5	22 23	SP	0-17" Dark yellowish brown fine SAND, little coarse sand and silt. Very dense, dry, well sorted.
24-26	24/24			0.0	9 11 14 16	24 25 26	SP SP	0-10" Light brown fine SAND, some silt. Dense, dry, well sorted. 10-24" Light yellowish brown fine to medium SAND, some coarse sand. Dense, dry, well sorted. Little dark brown staining.
26-28	24/13			0.0	31 50/5	27	SP	0-13" Dark yellowish brown fine SAND. Very dense, dry, well sorted.
28-30	24/22			0.0	25 36 50/5	28 29 30	SP	0-22" Light yellowish brown very fine SAND. Very dense, dry, well sorted.
								Split Spoon Sampling Discontinued-30 Feet
						40		Rock
						50		
						60		
						70		
						80		
						90		
						100		End of Boring 98.5 feet
						110		
						120		
						130		
						140		

Note: Depth Scale Changes to 10-foot Intervals at 30 feet

Logged by: \_\_\_\_\_ Joseph Sawicki

Date: \_\_\_\_\_ 6/3/2010-6/4/2010

Drilling Contractor: \_\_\_\_\_ Summit Site Services

Driller: \_\_\_\_\_ Chad Chism



## LOG OF SOIL/ROCK BORING

Reference Desc:

0915

Driller: Chad Chism



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
	Air Rotary	MW-2A
Sampling Method:		
	Continuous SplitSpoons	
	Sheet 2 of 2	
	Drilling	
Water Level		Start
Time	-	Finish
Date		0828
Reference		6/8/10 0915 6/9/10

Surface Conditions: Topsoil

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log
20-22	19/19			0.0	19 35 50/5	21	SP
					15 34 50/5	22	SP
22-24	17/18			0.0	28 50/2	23	ML
						24	
24-26	8/11			0.0		25	
						26	
						27	
						28	
						29	
						30	
						40	
						50	
						60	
						70	
						80	
						90	
						100	
						110	
						120	
						130	
						140	

0-19" Moderate yellowish brown very fine SAND, some silt. Very dense, partially consolidated, dry, well sorted.

0-18" Moderate yellowish brown very fine to medium SAND, some silt. Very dense, partially consolidated, dry, well sorted.

0-7" Dark brown SILT, little very fine sand. Very dense, slightly moist, well sorted.

7-11" Pale yellowish brown weathered SANDSTONE. Very dense, partially consolidated, dry, well sorted.

Split Spoon Sampling Discontinued-26 feet

Rock

End of Boring -75 Feet

Note: Depth scale changes to 10-foot intervals at 30 feet

Logged by: Joseph Sawicki

Date: 6/8/2010-6/9/2010

Drilling Contractor: Summit Site Services

Driller: Chad Chism





## LOG OF SOIL/ROCK BORING

Surface Elevation: \_\_\_\_\_

Casing Below Surface: \_\_\_\_\_

Reference Elevation: \_\_\_\_\_

Reference Desc: \_\_\_\_\_

County	Agency	Location
62196.08	Montgomery County DEP	Gude Landfill

Drilling Method:	Hollow Stem Auger	Boring No.
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Air Rotary	MW-2B
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Sampling Method:	
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Continuous Split Spoons	Sheet 1 of	2
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	Drilling
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Water Level				Start	Finish
-------------	--	--	--	-------	--------

Time	-				
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Date				1400	1320
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Reference				6/9/10	6/17/10
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[illegible]

Drilling Contractor: Summit Site Services

Driller: Chad Chism



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No. 62196.08	Client: Montgomery County DEP	Location: Gude Landfill
Drilling Method: Hollow Stem Auger Air Rotary	Boring No. MW-2B	
Sampling Method: Continuous SplitSpoons		Sheet 2 of 2
		Drilling
Water Level		Start
Time	-	Finish
Date		1400
Reference		6/9/10 6/17/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	
20-22	17/21			0.0	10 29 50/5	21	SM	0-9" Reddish brown very fine SILTY SAND. Dense, dry, well sorted. 9-21" Rock Split Spoon Sampling Discontinued- 21 feet Rock
						22		
						23		
						24		
						25		
						26		
						27		
						28		
						29		
						30		
						40		
						50		
						60		
						70		
						80		
						90		
						100		
						110		End of Boring- 108 feet
						120		
						130		
						140		

Note: Depth Scale Changes to 10-foot Intervals at 30 feet.

Logged by: Joseph Sawicki

Date: 6/9/2010-6/17/2010

Drilling Contractor: Summit Site Services

Driller: Chad Chism





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### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
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Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
	Air Rotary	MW-3A
Sampling Method:		
	Continuous Split Spoons	
		Sheet 2 of 2
		Drilling
Water Level		Start
Time	-	Finish
Date		0805
Reference		6/18/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	
					19			
20-22	11/3			0.0	50/5	21	SP	0-3" Pale yellowish brown very fine SAND, little medium to coarse sand, silt, and large cobbles. Very dense, partially consolidated, dry, poorly sorted.
						22		
22-24	11/11			0.0	33		SP	0-11" Pale yellowish brown fine SAND, some medium to coarse sand. Very dense, partially consolidated, dry, moderately well sorted.
					50/5	23		
						24		
24-26	3/3			0.0	50/3	25	SP	0-3" Pale yellowish brown fine SAND and rock fragments. Very dense, dry, moderately well sorted.
						26		End of Boring - 25 feet
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		
						41		

Logged by: \_\_\_\_\_ Joseph Sawicki \_\_\_\_\_  
Drilling Contractor: \_\_\_\_\_ Summit Site Services \_\_\_\_\_

Date: \_\_\_\_\_ 06/18/2010 \_\_\_\_\_  
Driller: \_\_\_\_\_ Chad Chism \_\_\_\_\_



## LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
 Surface Elevation: \_\_\_\_\_  
 Casing Below Surface: \_\_\_\_\_  
 Reference Elevation: \_\_\_\_\_  
 Reference Desc: \_\_\_\_\_

Job. No. 62196.08	Client: Montgomery County DEP			Location: Gude Landfill	
Drilling Method: Hollow Stem Auger Air Rotary				Boring No. MW-3B	
Sampling Method: Continuous Split Spoons				Sheet 1 of 2	
				Drilling	
Water Level				Start	Finish
Time	-				
Date				1210	1250
Reference				6/18/10	6/22/10

Sample Type	Inches Drvn/In. Recvrdr	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions: Topsoil
0-2	24/11			0.5	6 5	1	ML	0-6" Topsoil, Moderate brown SILT, little fine sand and organics. Dense, moist, well sorted.
					3 3	2	SM	6-11" Light grayish brown fine SILTY SAND, little medium to coarse sand, trace cobbles. Dense, moist, Moderately well sorted.
2-4	24/16			0.2	2 3	3	ML	0-16" Moderate yellowish brown fine SANDY SILT. Dense, moist, well sorted.
					5 5	4		
4-6	24/18			0.0	3 4	5	SM	0-18" Pale yellowish brown fine SILTY SAND, little coarse sand and gravel. Very dense, moist, well sorted.
					4 6	6		
6-8	24/17			0.2	8 9	7	SP	0-17" Moderate yellowish brown fine SAND, some coarse sand, gravel, and silt. Very dense, slightly moist, poorly sorted.
					9 11	8		
8-10	24/17			0.0	3 5	9	SM	0-13" Moderate yellowish brown very fine SILTY SAND. Dense, slightly moist, well sorted.
					4 5	10	SM	13-17" Moderate yellowish brown fine SILTY SAND, little coarse sand and gravel. Dense, moist, poorly sorted.
10-12	24/15			0.1	6 8	11	SM	0-15" Dark yellowish brown fine SILTY SAND, some coarse sand and gravel, trace large cobbles. Dense, very moist, poorly sorted.
					9 9	12		
12-14	24/20		Gude-MW3B SO-12-14	0.7	4 7	13	ML	0-10" Moderate yellowish brown SILT, some fine to medium sand. Dense, moist, well sorted.
			DUP 2		9 12	14	SP	10-20" Pale yellowish brown fine SAND, some silt, little coarse sand and gravel. Dense, slightly moist, moderately well sorted.
14-16	24/20			0.0	7 7	15	SM	0-8" Moderate yellowish brown fine SILTY SAND, trace gravel. Dense, moist, well sorted.
					9 7	16	SP	8-20" Pale yellowish brown very fine SAND, little silt. Dense, moist, well sorted.
16-18	24/20			0.3	17 19	17	SP	0-20" Pale yellowish brown very fine SAND, little silt. Dense, wet, well sorted.
					27 27	18		
18-20	11/10			0.0	32 50/5	19	SP	0-10" Pale yellowish brown very fine SAND, little silt. Dense, wet, well sorted.
						20		
								Split Spoon Sampling Discontinued- 20 feet

Logged by: Joseph Sawicki

Date: 6/18/2010-6/22/10

Drilling Contractor: Summit Site Services

Driller: Chad Chism



EA Engineering, Science,  
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### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No. 62196.08	Client: Montgomery County DEP	Location: Gude Landfill
Drilling Method: Hollow Stem Auger Air Rotary		Boring No. MW-3B
Sampling Method: Continuous Split Spoons		Sheet 2 of 2 Drilling
Water Level		Start
Time	-	Finish
Date		1210
Reference		6/18/10 1250 6/22/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log
						20	
						30	
						40	Rock
						50	
						60	
						70	
						80	
						90	
						100	End of Boring - 96 feet
						110	
						120	
						130	
						140	
						150	
						160	
						170	
						180	
						190	
						200	
						210	
						220	

Logged by: \_\_\_\_\_ Joseph Sawicki

Date: \_\_\_\_\_ 6/18/2010-6/22/10

Drilling Contractor: \_\_\_\_\_ Summit Site Services

Driller: \_\_\_\_\_ Chad Chism



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
 Surface Elevation: \_\_\_\_\_  
 Casing Below Surface: \_\_\_\_\_  
 Reference Elevation: \_\_\_\_\_  
 Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
		MW-4
Sampling Method:	Sheet 1 of 2	
	Continuous SplitSpoons	
	Drilling	
Water Level		Start
Time	-	Finish
Date		0840
Reference		7/6/10 1000

Surface Conditions: Asphalt

0-2	24/13			13.2	6	1	SM	0-13" Dark brown SILTY SAND, little coarse sand and gravel. Slightly dense, moist, moderately well sorted.
					9			
					11			
					12	2		
2-4	24/12		Gude-MW4 SO-2-4	13.2	3		SM	0-6" Moderate yellowish brown SILTY SAND. Slightly dense, dry, well sorted.
					2	3		
					4		SP	6-12" Moderate yellowish brown fine to medium SAND. Loose, dry, well sorted.
					4	4		
4-6	24/12			6.3	3		SM	0-12" Dark brown very fine SILTY SAND, little gravel. Dense, moist, moderately well sorted.
					6	5		
					6	6		
6-8	24/10			2.8	3		SM	0-10" Dark brown very fine SILTY SAND, little gravel. Moderately dense, moist, moderately well sorted.
					4	7		
					2	8		
8-10	24/6			1.6	2		SM	0-6" Dark brown very fine SILTY SAND, little gravel. Moderately dense, dry, moderately well sorted.
					2	9		
					3	10		
10-12	24/8			1.5	5		SP	0-8" Moderately yellowish brown fine to medium SAND, some coarse sand, little gravel and silt. Loose, very wet, poorly sorted.
					8	11		
					9	12		
12-14	23/0			--	5			NO RECOVERY
					17	13		
					30			
					50/5	14		
14-16	23/13			2.6	5		SP	0-13" Pale yellowish brown very fine SAND, little silt and cobbles. Very dense. Slightly moist, well sorted.
					18	15		
					35			
					50/5	16		
16-18	23/15			2.6	5		SP	0-15" Pale yellowish brown very fine SAND, little coarse sand, gravel, silt and cobbles. Very dense. Slightly moist, poorly sorted.
					17	17		
					33			
					50/5	18		
18-20	23/15			3.9	10		SP	0-15" Pale yellowish brown very fine SAND, little coarse sand, gravel, silt and cobbles. Very dense. Slightly moist, poorly sorted. Little dark brown staining.
					19	19		
					36			
					50/5	20		

Logged by: Joseph Sawicki

Date: 07/06/2010

Drilling Contractor: Summit Site Services

Driller: Chad Chism



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### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
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Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
		MW-4
Sampling Method:		
	Continuous Split Spoons	
	Sheet 2 of 2	
	Drilling	
Water Level		Start
Time	-	Finish
Date		0840
Reference		7/6/10 1000

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	
					7		SM	Surface Conditions: Asphalt
20-22	24/19			4.3	16	21		0-19" Pale brown fine SILTY SAND, little coarse sand and gravel. Dense, wet, moderately well sorted.
					25			
					35	22		
					14		SP	0-19" Pale brown very fine SAND, some silt, trace gravel. Dense, moist, moderately well sorted.
22-24	24/19			3.4	25	23		
					50/5			
						24		
					4		SP	0-15" Pale brown very fine SAND, some silt, trace gravel and cobbles. Moderately dense, moist, moderately well sorted.
24-26	42/15			5.3	10	25		End of Boring - 26 feet
					10			
					11	26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		
						41		

Logged by: Joseph Sawicki

Date: 07/06/2010

Drilling Contractor: Summit Site Services

Driller: Chad Chism





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### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:	
62196.08	Montgomery County DEP	Gude Landfill	
Drilling Method:	Hollow Stem Auger	Boring No.	
		MW-6	
Sampling Method:		Sheet 1 of 2	
	Continuous Split Spoons	Drilling	
Water Level		Start	Finish
Time	-		
Date		1103	1315
Reference		6/22/10	6/22/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	
0-2	18/16			0.0	8 5 7	1	SP	0-16" Light reddish brown fine SAND, some silt. Dense, dry, well sorted.
						2	SM	0-13" Light reddish brown very fine SAND and SILT. Dense, dry, well sorted.
2-4	18/13			0.0	27 10 10	3	SM	0-13" Light reddish brown very fine SAND and SILT. Moderately dense, dry, well sorted.
4-6	18/13			0.0	12 13 17	5	SM	0-13" Light reddish brown very fine SAND and SILT. Moderately dense, dry, well sorted.
6-8	18/17			0.0	25 20 18	7	SP	0-17" Reddish brown very fine SAND, some silt. Moderately dense, dry, well sorted.
8-10	24/20			0.0	5 4 6	9	SP	0-6" Reddish brown very fine SAND, some silt. Moderately dense, dry, well sorted.
					7	10	CL	6-20 Reddish brown CLAY, little fine sand and silt. Dense, moist, well sorted.
10-12	24/15			0.0	5 5 6	11	SC	0-15" Reddish brown very fine CLAYEY SAND. Dense, dry, well sorted.
					8	12	CL	0-15" reddish brown CLAY, little very fine sand and silt. Moderately dense, wet, well sorted. Some black staining.
12-14	24/15		Gude-MW6 SO-12-14	0.0	2 3 8	13	SC	0-18" Reddish brown fine to medium CLAYEY SAND. Moderately dense, wet, well sorted. Little black bands of staining.
14-16	24/18			0.0	5 8 3	15	SC	0-22" Reddish brown fine to very fine CLAYEY SAND. Moderately dense, wet, well sorted. Little black bands of staining.
					2	16	SC	0-19" Reddish brown fine CLAYEY SAND. Moderately dense, wet well sorted. Some black bands of staining.
16-18	24/22			0.0	10 11 14	17	SC	
					13	18	SC	
18-20	24/19			0.0	8 9 8	19	SC	
					9	20	SC	

Logged by: Joseph Sawicki

Date: 06/22/2010

Drilling Contractor: Summit Site Services

Driller: Chad Chism



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Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
		MW-6
Sampling Method:	Sheet 2 of 2	
Continuous Split Spoons	Drilling	
Water Level		Start
Time	-	Finish
Date		1103
Reference		6/22/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions:
					9		SC	Topsoil
20-22	24/20			0.0	12	21		0-20" Reddish brown fine CLAYEY SAND. Moderately dense, wet well sorted. Some black bands of staining.
					13			
					18	22		
					5		SC	0-7" Moderate yellowish brown fine to medium CLAYEY SAND. Dense, moist, well sorted.
22-24	24/22			0.0	7	23		7-22" White fine to medium SANDY CLAY. Dense, wet, well sorted.
					7		CL	Red and brown bands of sandy clay throughout.
					12	24		0-12" Moderate yellowish brown fine to medium CLAYEY SAND. Dense, moist, well sorted.
24-26	24/22			0.0	10	25		12-22" White fine to medium CLAYEY SAND. Very dense, moist, well sorted.
					8		SC	End of Boring - 26 feet
					9	26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		
						41		

Logged by: \_\_\_\_\_ Joseph Sawicki \_\_\_\_\_  
Drilling Contractor: \_\_\_\_\_ Summit Site Services \_\_\_\_\_

Date: \_\_\_\_\_ 06/22/2010 \_\_\_\_\_  
Driller: \_\_\_\_\_ Chad Chism \_\_\_\_\_



## LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
 Surface Elevation: \_\_\_\_\_  
 Casing Below Surface: \_\_\_\_\_  
 Reference Elevation: \_\_\_\_\_  
 Reference Desc: \_\_\_\_\_

Job. No. 62196.08	Client: Montgomery County DEP			Location: Gude Landfill	
Drilling Method: Hollow Stem Auger Air Rotary				Boring No. MW-7	
Sampling Method: Continuous Split Spoons				Sheet 1 of 2	
				Drilling	
Water Level				Start	Finish
Time	-				
Date				1245	1430
Reference				6/23/10	6/24/10

[illegible]

Logged by: Joseph Sawicki

Drilling Contractor: Summit Site Services

Date: 6/23/2010-6/24/2010

Driller: Chad Chism



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No. 62196.08	Client: Montgomery County DEP	Location: Gude Landfill
Drilling Method: Hollow Stem Auger		Boring No. MW-7
Air Rotary		
Sampling Method: Continuous SplitSpoons		Sheet 2 of 2
		Drilling
Water Level		Start
Time	-	Finish
Date		1245
Reference		6/23/10 1430 6/24/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions: Topsoil
						20		
						30		
						40		Rock
						50		
						60		End of Boring - 58 feet
						70		
						80		
						90		
						100		
						110		
						120		
						130		
						140		
						150		
						160		
						170		
						180		
						190		
						200		
						210		
						220		

Note: Depth Scale Changes to 10-foot Intervals at 20 feet.

Logged by: Joseph Sawicki

Date: 6/23/2010-6/24/10

Drilling Contractor: Summit Site Services

Driller: Chad Chism



## LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
 Surface Elevation: \_\_\_\_\_  
 Casing Below Surface: \_\_\_\_\_  
 Reference Elevation: \_\_\_\_\_  
 Reference Desc: \_\_\_\_\_

Job. No. 62196.08	Client: Montgomery County DEP			Location: Gude Landfill	
Drilling Method: Hollow Stem Auger Air Rotary				Boring No. MW-8	
Sampling Method: Continuous Split Spoons				Sheet 1 of 2	
				Drilling	
Water Level				Start	Finish
Time	-				
Date				0915	1100
Reference				6/23/10	6/23/10

[illegible]

Logged by: Joseph Sawicki

Drilling Contractor: Summit Site Services

Date: 06/23/2010

Driller: Chad Chism



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
	Air Rotary	MW-8
Sampling Method:		
	Continuous Split Spoons	
		Sheet 2 of 2
		Drilling
Water Level		Start
Time	-	Finish
Date		0915
Reference		6/23/10 1100

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	
					18			
20-22	10/8			0.0	50/4	21	SP	0-8" Moderate yellowish brown very fine SAND, little silt. Very dense, partially consolidated, dry, well sorted.
						22		
22-24	17/17			0.0	34		ML	0-12" Pale brown SILT, some coarse sand, little fine sand. Very loose, wet, moderately sorted.
					24	23		
					50/5		SP	12-17" Pale brown very fine SAND. Dense, partially consolidated, moist, well sorted.
						24		Split Spoon Sampling Discontinued- 24 feet
						25		
						26		Rock
						27		
						28		
						29		
						30		End of Boring- 30 feet
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		
						41		

Logged by: Joseph Sawicki

Date: 06/23/2010

Drilling Contractor: Summit Site Services

Driller: Chad Chism



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
		MW-9
Sampling Method:	Sheet 1 of 2	
	Continuous Split Spoons	
	Drilling	
Water Level		Start
Time	-	Finish
Date		1244
Reference		7/6/10 1435

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions:
								Asphalt
0-2	24/21			2.6	3	1	ML	0-2" Asphalt
					6			2-21" Reddish brown SILT, little fine to coarse sand and clay. Very dense, dry, poorly sorted.
					7			
					9	2		
2-4	24/17			2.5	4		SM	0-17" Reddish brown very fine SANDY SILT, little coarse sand and gravel. Very dense, dry, well sorted.
					6	3		
					7			
					10	4		
4-6	24/13			3.7	8		SM	0-13" Moderate yellowish brown very fine SILTY SAND, trace cobbles. Dense, dry, well sorted.
					9	5		
					9			
					10	6		
6-8	24/15			2.6	7		SM	0-15" Pale yellowish brown very fine SILTY SAND, trace cobbles. Dense, dry, well sorted. Trace black staining, likely organic.
					8	7		
					9			
					9	8		
8-10	24/15			2.6	7		SM	0-15" Pale yellowish brown very fine SILTY SAND, trace cobbles. Dense, dry, well sorted. Trace black staining, likely organic.
					7	9		
					8			
					10	10		
10-12	24/22			4.0	4		SM	0-22" Pale yellowish brown very fine SILTY SAND. Dense, dry, well sorted.
					8	11		
					12			
					14	12		
12-14	24/18			3.6	4		SM	0-18" Pale yellowish brown very fine SILTY SAND. Dense, dry, well sorted.
					7	13		
					9			
					10	14		
14-16	24/15			2.1	4		SM	0-15" Moderate yellowish brown very fine SILTY SAND. Dense, dry, well sorted.
					12	15		
					18			
					20	16		
16-18	24/21			2.8	5		SM	0-21" Moderate yellowish brown very fine SILTY SAND. Dense, moist, well sorted.
					7	17		
					12			
					15	18		
18-20	23/20			4.1	9		SM	0-20" Moderate yellowish brown very fine SILTY SAND, trace coarse sand and quartz cobbles. Dense, moist, well sorted.
					20	19		
					35			
					50/5	20		

Logged by: \_\_\_\_\_ Joseph Sawicki

Date: \_\_\_\_\_ 07/06/2010

Drilling Contractor: \_\_\_\_\_ Summit Site Services

Driller: \_\_\_\_\_ Chad Chism



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
		MW-9
Sampling Method:		Sheet 2 of 2
Continuous Split Spoons		Drilling
Water Level		Start
Time	-	Finish
Date		1244
Reference		7/6/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	
20-22	24/21		Gude-MW9 -SO-20-22	4.7		21	SM	0-21" Moderate yellowish brown very fine SILTY SAND. Moderately dense, moist, well sorted.
						22	SM	
22-24	24/22			3.5		23		0-22" Pale yellowish brown very fine SITLY SAND. Moderately dense, moist, well sorted. Little black staining.
						24		
24-26	24/18			1.2		25	SM	0-18" Pale yellowish brown very fine SITLY SAND. Moderately dense, moist, well sorted. Little black staining.
						26		End of Boring - 25 feet
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		
						41		

Logged by: Joseph Sawicki

Date: 07/06/2010

Drilling Contractor: Summit Site Services

Driller: Chad Chism





EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
		MW-10
Sampling Method:	Sheet 1 of 2	
Continuous Split Spoons	Drilling	
Water Level		Start
Time	-	Finish
Date		0920
Reference		7/2/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions:
								Grass
0-2	24/12			0.0	4	1	OL	0-12" Dark brown SILT, little fine sand and organic matter. Dense, dry, well sorted.
					6			
					6	2		
2-4	24/17			0.0	4		OL	0-6" Dark brown SILT, little fine sand and organic matter. Dense, dry, well sorted.
					5	3		
					7		ML	6-17" Light gray and light brown CLAYEY SILT. Dense, dry, well sorted.
					8	4		
4-6	24/17			0.0	3		ML	0-17" Light gray and light brown CLAYEY SILT. Very dense, dry, well sorted.
					3	5		
					4			
					6	6		
6-8	24/21			0.0	6		ML	0-21" Light gray and light brown CLAYEY SILT, little fine to medium sand. Very dense, dry, well sorted.
					9	7		
					10	8		
8-10	24/17			0.0	4		ML	0-9" Light gray and light brown CLAYEY SILT. Very dense, dry, well sorted.
					4	9		
					4		ML	9-17" Dark brown very fine SANDY SILT, little clay. Moderately dense, moist, well sorted.
					4	10		
10-12	24/15			0.0	4		SM	0-15" Dark brown very fine SILTY SAND. Moderately dense, moist, well sorted.
					5	11		
					6	12		
12-14	24/16			0.1	4		SM	0-16" Dark brown very fine SILTY SAND. Moderately dense, moist, well sorted.
					4	13		
					7			
					8	14		
14-16	24/17			0.6	5		SM	0-17" Dark brown very fine SILTY SAND, trace quartz cobbles. Moderately dense, moist, well sorted.
					7	15		
					6	16		
					7			
16-18	24/18			1.1	6		SM	0-18" Pale yellowish brown very fine SAND, some silt, trace quartz cobbles. Slightly dense, moist, well sorted.
					7	17		
					7			
					8	18		
18-20	24/17		Gude-MW10 -SO-18-20	1.8	3		SM	0-17" Dark brown very fine SAND, some silt, trace quartz cobbles. Slightly dense, moist, well sorted.
					3	19		
					4			
					4	20		

Logged by: \_\_\_\_\_ Joseph Sawicki

Date: \_\_\_\_\_ 07/02/2010

Drilling Contractor: \_\_\_\_\_ Summit Site Services

Driller: \_\_\_\_\_ Chad Chism



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
	Air Rotary	MW-10
Sampling Method:		
	Continuous Split Spoons	
		Sheet 2 of 2
		Drilling
Water Level		Start
Time	-	Finish
Date		0920
Reference		7/2/10 1050

Surface Conditions: Grass

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log
20-22	24/17			1.4	3	21	SM
					3		
					5	22	
					6		
22-24	24/18			1.1	7	23	SM
					11		
					16	24	
					18		
						25	
						26	
						27	
						28	
						29	
						30	
						31	
						32	
						33	
						34	
						35	
						36	
						37	
						38	
						39	
						40	
						41	

0-17" Moderate yellowish brown very fine SILTY SAND. Dense, moist, well sorted.

0-18" Moderate yellowish brown very fine SILTY SAND. Dense, moist, well sorted.

End of Boring- 25 feet

Logged by: Joseph Sawicki

Date: 07/02/2010

Drilling Contractor: Summit Site Services

Driller: Chad Chism



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No. 62196.08	Client: Montgomery County DEP	Location: Gude Landfill
Drilling Method: Hollow Stem Auger		Boring No. MW-11A
Sampling Method: Continuous Split Spoons		Sheet 1 of 2
Water Level		Start
Time	-	Finish
Date		1430
Reference		6/29/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions: Grass
0-2	24/19			1.1	3 8 10 11	1	ML	0-19" Moderate yellowish brown SILT, some very fine sand. Dense, dry, well sorted. Little organic matter and roots.
2-4	24/18			1.2	3 6 9 11	2	ML	0-18" Moderate yellowish brown SILT, some very fine sand. Moderately dense, dry, well sorted. Little organic matter and roots.
4-6	24/16			1.6	5 9 10 14	3	ML	0-16" Moderate yellowish brown SILT, some very fine sand, trace coarse sand. Moderately dense, dry, well sorted.
6-8	24/18			2.2	8 11 16 20	4	ML	0-18" Pale yellowish brown very fine SANDY SILT. Dense, slightly moist, well sorted.
8-10	24/17			1.8	6 9 14 20	5	ML	0-17" Pale yellowish brown very fine SANDY SILT, trace coarse sand. Dense, dry, well sorted.
10-12	24/16			1.2	9 10 12 12	6	ML	0-16" Pale yellowish brown SILT, some very fine sand, trace coarse sand. Moderately dense, dry, well sorted.
12-14	24/18			2.0	9 9 8	7	ML	0-18" Pale yellowish brown SILT, some very fine sand, trace coarse sand. Moderately dense, dry, well sorted.
14-16	24/19		Gude-MW11A SO-14-16	2.6	6 7 7 9	8	ML	0-19" Pale yellowish brown SILT, some very fine sand, trace clay Moderately dense, moist, well sorted.
16-18	24/20			2.2	7 9 12 13	9	ML	0-20" Pale yellowish brown SILT, some very fine sand, trace clay Moderately dense, moist, well sorted.
18-20	24/20			1.8	6 7 12 14	10	ML	0-20" Pale yellowish brown SILT, some very fine sand, trace clay Moderately dense, moist, well sorted.

Logged by: \_\_\_\_\_ Joseph Sawicki

Date: \_\_\_\_\_ 06/29/2010

Drilling Contractor: \_\_\_\_\_ Summit Site Services

Driller: \_\_\_\_\_ Chad Chism



## LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
 Surface Elevation: \_\_\_\_\_  
 Casing Below Surface: \_\_\_\_\_  
 Reference Elevation: \_\_\_\_\_  
 Reference Desc: \_\_\_\_\_

Job. No. 62196.08	Client: Montgomery County DEP			Location: Gude Landfill	
Drilling Method:		Hollow Stem Auger		Boring No.	
		Air Rotary		MW-11A	
Sampling Method:					
Continuous SplitSpoons				Sheet 2 of 2	
				Drilling	
Water Level				Start	Finish
Time	-				
Date				1430	1556
Reference				6/29/10	6/29/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet		USCS Log	Surface Conditions: Grass
20-22	24/19			2.0	4 5 8	21		ML	0-19" Pale yellowish brown SILT, some very fine sand, trace clay Moderately dense, moist, well sorted.
					8	22			
22-24	24/23			1.1	4 5	23		ML	0-23" Moderate yellowish brown SILT, some very fine sand, trace clay. Dense, moist, well sorted.
					9				
					10	24			
24-26	23/14			0.6	14 20	25		ML	0-14" Pale yellowish brown very fine SANDY SILT. Very dense, dry, well sorted.
					28				
					50/5	26			
26-28	23/23			0.8	17 27	27		ML	0-23" Pale yellowish brown very fine SANDY SILT. Very dense, dry, well sorted.
					36				
					50/5	28			
28-30	11/11			0.0	32 50/5	29		ML	0-11" Pale yellowish brown very fine SANDY SILT. Very dense, moist, well sorted.
						30			
30-32	5/5			0.0	50/5	31		ML	0-5" Pale yellowish brown very fine SANDY SILT. Very dense, moist, well sorted.
									End of Boring- 31 feet
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			
						41			

Date: 06/29/2010

Driller: Chad Chism

EA Engineering, Science,  
and Technology, Inc.



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
	Air Rotary	MW-11B
Sampling Method:	Continuous SplitSpoons	
		Sheet 2 of 2
		Drilling
Water Level		Start
Time	-	Finish
Date		1020
Reference		6/30/10 1608 7/1/10

Surface Conditions: Grass

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log
20-22	24/18			4.3	5 8	21	SM
					14 16	22	
22-24	24/19			2.8	5 8	23	SM
					14 18	24	ML
24-26	24/19			2.3	8 14	25	ML
					16 19	26	SM
26-28	24/18			1.8	12 18	27	SM
					20 25	28	
28-30	9/9			3.6	25 50/3	29	SM
						30	
30-32	11/11			2.1	25 50/5	31	SP
						32	
						40	
						50	Rock
						60	
						70	
						80	
						90	End of Boring 93 feet
						100	
						110	
						120	

0-18" Pale yellowish brown very fine SILTY SAND. Dense, very moist, well sorted.

0-8" Pale yellowish brown very fine SILTY SAND. Dense, moist, well sorted.

8-19" Reddish brown SILT, little very fine sand. Very dense, dry, well sorted. Little black staining.

0-13" Reddish brown SILT, little very fine sand. Very dense, dry, well sorted. Little black staining.

13-19" Pale yellowish brown very fine SILTY SAND. Dense, moist, well sorted.

0-18" Pale yellowish brown very fine SILTY SAND. Dense, moist, well sorted.

0-9" Pale yellowish brown very fine SILTY SAND. Dense, moist, well sorted. Very dense in nose cone.

0-11" Moderate brown very fine SAND, little cobbles and silt. Very dense, dry, well sorted.

Split Spoon Sampling Discontinued- 31 feet

Note: Depth Scale Changes to 10-foot Intervals at 32 feet.

Logged by: Joseph Sawicki

Date: 6/30/10-7/1/2010

Drilling Contractor: Summit Site Services

Driller: Chad Chism

EA Engineering, Science,  
and Technology, Inc.



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No. 62196.08	Client: Montgomery County DEP	Location: Gude Landfill
Drilling Method: Hollow Stem Auger		Boring No. MW-12
Sampling Method: Continuous Split Spoons		Sheet 2 of 2
		Drilling
Water Level		Start
Time	-	Finish
Date		1244
Reference		7/6/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	
20-22	24/20		Gude-MW12 -SO-20-22 Dup-4	5.7		21	SM	0-20" Moderate yellowish brown very fine SILTY SAND. Very dense, moist, well sorted. Brown staining 18-20"
						22	SM	0-16" Moderate yellowish brown very fine SILTY SAND. Very dense, moist, well sorted.
22-24	9/16			7.5		23	SM	0-12" Moderate yellowish brown very fine SILTY SAND. Very dense, moist, well sorted.
24-26	17/12			5.1		25	SM	End of Boring - 25 feet
						26		
						27		
						28		
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		
						41		

Logged by: Joseph Sawicki

Date: 07/06/2010

Drilling Contractor: Summit Site Services

Driller: Chad Chism



EA Engineering, Science,  
and Technology, Inc.

## LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
 Surface Elevation: \_\_\_\_\_  
 Casing Below Surface: \_\_\_\_\_  
 Reference Elevation: \_\_\_\_\_  
 Reference Desc: \_\_\_\_\_

Job. No. 62196.08	Client: Montgomery County DEP			Location: Gude Landfill	
Drilling Method:		Hollow Stem Auger		Boring No. MW-13A	
Sampling Method:					
Continuous Split Spoons				Sheet 1 of 2	
				Drilling	
Water Level				Start	Finish
Time	-				
Date				1007	1142
Reference				6/25/10	6/25/10

[illegible]

Logged by: Joseph Sawicki

Date: 06/25/2010

Drilling Contractor: Summit Site Services

Driller: Chad Chism



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
		MW-13A
Sampling Method:	Sheet 2 of 2	
Continuous Split Spoons	Drilling	
Water Level		Start
Time	-	Finish
Date		1007
Reference		6/25/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions: Topsoil
20-22	24/20			2.1	4	21	SM	0-9" Dusky brown very fine SILTY SAND. Moderately dense, wet, well sorted.
					5			
					9		SP	9-20" Moderate yellowish brown very fine SAND, little silt. Very dense, moist, well sorted.
					10	22		
22-24	24/13			1.1	7		SP	0-12" Dark brown very fine SAND, little silt. Extremely dense, slightly moist, well sorted.
					6	23		
					7		SP	12-13" White very fine SAND, little silt and clay, trace medium to coarse sand. Slightly dense, moist, well sorted.
					8	24		
24-26	24/15			1.3	7		SP	0-8" White very fine SAND, little silt and clay, trace medium to coarse sand. Slightly dense, moist, well sorted.
					5	25		
					5		SP	8-12" Dark brown very fine SAND, little silt. Extremely dense, slightly moist, well sorted.
					5	26		
							SP	12-14" White very fine SAND, little silt and clay, trace medium to coarse sand. Slightly dense, moist, well sorted.
						27		
							SP	14-15" Dark brown very fine SAND, little silt. Extremely dense, slightly moist, well sorted.
						28		
								End of Boring - 26 feet
						29		
						30		
						31		
						32		
						33		
						34		
						35		
						36		
						37		
						38		
						39		
						40		
						41		

Logged by: \_\_\_\_\_ Joseph Sawicki \_\_\_\_\_  
Drilling Contractor: \_\_\_\_\_ Summit Site Services \_\_\_\_\_

Date: \_\_\_\_\_ 06/25/2010 \_\_\_\_\_  
Driller: \_\_\_\_\_ Chad Chism \_\_\_\_\_





EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
	Air Rotary	MW-13B
Sampling Method:	Continuous Split Spoons	
	Sheet 2 of 3	
	Drilling	
Water Level		Start
Time	-	Finish
Date		1324
Reference		6/25/10

Surface Conditions:	Topsoil
20-22	0-22" Dusky brown SILT, some very fine sand. Loose, wet (very wet 0-6"), well sorted. Little black/organic staining.
22-24	0-18" Dusky brown SILT, little fine to coarse sand. Dense, wet, moderately well sorted.
24-26	0-18" Dusky brown SILT, some fine sand. Moderately dense, wet, moderately well sorted.
26-28	0-20" Dark brown (white 8-12") very fine SAND, some silt. Dense, moist, well sorted.
28-30	0-13" Dark brown (white 11-13") very fine SAND, some silt. Dense, moist, well sorted.
30-32	0-15" Dark brown and white very fine SAND, some silt. Dense, moist, well sorted.
32-34	0-17" Dark brown and white very fine SAND, some silt. Dense (very dense 10-17"), moist, well sorted.
34-36	NO RECOVERY
36-38	NO RECOVERY
38-40	0-10" Moderate yellowish brown fine SILTY SAND, trace coarse sand. Slightly dense, wet, well sorted.
	10-22" Moderate yellowish brown very fine SAND, little silt. Very dense, moist, well sorted.

Logged by: \_\_\_\_\_ Joseph Sawicki

Date: \_\_\_\_\_ 6/25/10-6/29/10

Drilling Contractor: \_\_\_\_\_ Summit Site Services

Driller: \_\_\_\_\_ Chad Chism



EA Engineering, Science,  
and Technology, Inc.

### LOG OF SOIL/ROCK BORING

Coordinates: \_\_\_\_\_  
Surface Elevation: \_\_\_\_\_  
Casing Below Surface: \_\_\_\_\_  
Reference Elevation: \_\_\_\_\_  
Reference Desc: \_\_\_\_\_

Job. No.	Client:	Location:
62196.08	Montgomery County DEP	Gude Landfill
Drilling Method:	Hollow Stem Auger	Boring No.
	Air Rotary	MW-13B
Sampling Method:		
	Continuous SplitSpoons	
	Sheet 3 of 3	
	Drilling	
Water Level		Start
Time	-	Finish
Date		1324
Reference		6/25/10 1156
		6/29/10

Sample Type	Inches Drvn/In. Recvrd	Dpth. Csg.	Sample No.	PID ppm	Blows per 6 in.	Depth in Feet	USCS Log	Surface Conditions: Topsoil
40-42	24/20			11	10 15 23	41	SP	0-20" Moderate yellowish brown very fine SAND, little silt. Very dense, moist, well sorted.
					21	42		
42-44	17/24			16	23 44	43	SP	0-14" Moderate yellowish brown very fine SAND, little silt. Dense, moist, well sorted.
					50/5	44	SM	14-24" Dark brown SILTY SAND and weathered bedrock. Dense, wet, poorly sorted.
44-46	23/16			12	27 34	45	SM	0-16" Dark brown SILTY SAND and weathered bedrock, little clay. Very dense, moist, poorly sorted.
					37	46		
					50/5	47		
46-48	4/4			18	50/4	48	SM	0-14" Dark brown SILTY SAND and weathered bedrock. Extremely dense, slightly moist, poorly sorted.
						49		Split Spoon Sampling Discontinued- 47 feet
						50		Rock
						60		
						70		
						80		
						90		
						100		End of Boring - 95 feet
						110		
						120		
						130		
						140		
						150		
						160		

Note: Depth Scale Changes to 10 foot Intervals at 50 feet.

Logged by: Joseph Sawicki

Date: 6/25/10-6/29/10

Drilling Contractor: Summit Site Services

Driller: Chad Chism



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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation	<u>MW-1B</u>	Project Name	<u>Gude Landfill</u>
Condition	<u>Good / New</u>	Project Location	<u>Rockville, MD</u>
Well Grout Date	<u>06/04/10</u>	Developer Initials	<u>BK/JS</u>
Well Installation Date	<u>06/04/10</u>	Well Development Date	<u>07/07/10</u>
Gauge Date	<u>07/07/10</u>	Gauge Time	<u>0930</u>
Sounding Method	<u>water level indicator</u>	Measurement Ref.	<u>top of PVC</u>
Stick up/down (ft)	<u>2'</u>	Well Diameter	<u>2"</u>
Static Water Level	<u>53'</u>	Screen Length	<u>20'</u>
Development Time	<u>90 mins.</u>		
Surge Device	<u>Pump 12v (Super Turbine)</u>		
Weather	<u>Sunny 295°F</u>		

### Well Volume Determination:

- A. Well Depth 98.0'  
B. Depth to Water 53.0'  
C. Liquid Depth (A-B) (ft) 45.0'  
D. Well Volume/ft 7.33 x 3 = 22 gallons  
E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	<u>0940</u>	<u>1010</u>	<u>1040</u>	<u>1110</u>		
Pump Rate (gpm)	<u>1.10 gpm</u>	<u>1.10</u>	<u>1.10</u>	<u>1.10</u>		
Volume purged (gal.)	<u>10 gallons</u>	<u>30</u>	<u>50</u>	<u>70</u>		
Turbidity (NTU)	<u>474</u>	<u>328</u>	<u>67.6</u>	<u>8.6</u>		
pH	<u>5.76</u>	<u>5.63</u>	<u>5.90</u>	<u>5.75</u>		
Temp. (°C)	<u>18.28</u>	<u>18.29</u>	<u>17.47</u>	<u>17.82</u>		

Total volume of water removed (gal): ≈ 70

Estimated Recharge Rate: \_\_\_\_\_

Depth to sediment before development: N/A Depth to <sup>Hard Bottom</sup> sediment after development: N/A

Total Surging Time: 30 mins

Development Description: MW-1A not installed



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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation MW-2A Project Name Grade Land fill  
 Condition Good / New Project Location Rockville, MD  
 Well Grout Date \_\_\_\_\_ Developer Initials BK  
 Well Installation Date \_\_\_\_\_ Well Development Date 07/08/10  
 Gauge Date 07/08/10 Gauge Time 0850  
 Sounding Method water level indicator Measurement Ref. top of PVC  
 Stick up/down (ft) 2' 1" Well Diameter 2"  
 Static Water Level 61.27 Screen Length 20'  
 • Development Time Pump 120 (Proactive Super Twister)  
 • Surge Device Switching Pump 120 mins  
 Weather Sunny 90°F

### Well Volume Determination:

A. Well Depth 78.06  
 B. Depth to Water 61.36  
 C. Liquid Depth (A-B) (ft) 16.70  
 D. Well Volume/ft 2.72 x 3 = 8.2 gallons  
 E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	0915	0930	0945	1000	1015	1045
Pump Rate (gpm)	0.25	0.25	0.25	~0.25	~0.25	~0.25
Volume purged (gallons)	3.75	7.5	11.25	~15.00	~18.75	~26.25
Turbidity (NTU)	>1000	118	827	43.5	23.9	6.96
pH	5.42	5.55	5.90	5.26	5.33	5.35
Temp. (°C)	18.87	18.61	18.80	19.00	19.36	19.51
DTW	65.50	66.20	NIR	65.72	65.88	

Total volume of water removed (gal): 20-25  
 Estimated Recharge Rate: \_\_\_\_\_  
 Depth to sediment before development: 78.06 Depth to sediment after development: NIR  
 Total Surging Time: 25 mins

Development Description: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation	<u>MW-2B</u>	Project Name	<u>Guide Landfill</u>
Condition	<u>Good/New</u>	Project Location	<u>Rockville, MD</u>
Well Grout Date	<u>06/17/10</u>	Developer Initials	<u>BK/JS</u>
Well Installation Date	<u>06/17/10</u>	Well Development Date	<u>07/07/10</u>
Gauge Date	<u>07/07/10</u>	Gauge Time	<u>1240</u>
Sounding Method	<u>water level indicator</u>	Measurement Ref.	<u>top of PVC</u>
Stick up/down (ft)	<u>33.25"</u>	Well Diameter	<u>2"</u>
Static Water Level	<u>60.18</u>	Screen Length	<u>20'</u>
Development Time	<u>120 mins.</u>		
Surge Device	<u>Pump 12V (ProActive Super-Twister)</u>		
Weather	<u>Sunny 295°F</u>		

### Well Volume Determination:

- A. Well Depth 110.51  
 B. Depth to Water 60.18  
 C. Liquid Depth (A-B) (ft) 50.33  
 D. Well Volume/ft 8.70 x 3 = 24.6 gallons  
 E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	<u>1250</u>	<u>1330</u>	<u>1400</u>	<u>1430</u>		
Pump Rate (gpm)	<u>0.50</u>	<u>0.50</u>	<u>0.50</u>	<u>0.50</u>		
Volume purged (gallons)	<u>5</u>	<u>25</u>	<u>40</u>	<u>55</u>		
Turbidity (NTU)	<u>16.3</u>	<u>25.3</u>	<u>11.4</u>	<u>6.22</u>		
pH	<u>5.72</u>	<u>5.30</u>	<u>5.23</u>	<u>5.21</u>		
Temp. (°C)	<u>23.05</u>	<u>18.91</u>	<u>18.35</u>	<u>17.34</u>		

Total volume of water removed (gal): 55  
 Estimated Recharge Rate: \_\_\_\_\_  
 Depth to sediment before development: 110.51 Depth to ~~sediment~~ <sup>Hard Bottom</sup> after development: 110.51  
 Total Surging Time: 30 mins.

Development Description: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation	<u>MW-3A (shallow)</u>	Project Name	<u>Guide Landfill</u>
Condition	<u>Good / New</u>	Project Location	<u>Rockville, MD</u>
Well Grout Date	_____	Developer Initials	<u>BK</u>
Well Installation Date	_____	Well Development Date	<u>07/08/10</u>
Gauge Date	<u>07/08/10</u>	Gauge Time	<u>1330</u>
Sounding Method	<u>water level indicator</u>	Measurement Ref.	<u>top of PVC</u>
Stick up/down (ft)	<u>24"</u>	Well Diameter	<u>2"</u>
Static Water Level	<u>9.84</u>	Screen Length	<u>20'</u>
Development Time	<u>90 mins</u>		
Surge Device	<u>Pump 12 (Pressure Super Transfer)</u>		
Weather	<u>Sunny 95°</u>		

### Well Volume Determination:

- A. Well Depth 25.63 / 25.63  
 B. Depth to Water 9.84  
 C. Liquid Depth (A-B) (ft) 15.79  
 D. Well Volume/ft 2.57 x 3 = 7.72 gallons  
 E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	<u>1345</u>	<u>1350</u>	<u>1415</u>	<u>1430</u>	<u>1500</u>	
Pump Rate (gpm)	<u>2.5</u>	<u>2.15</u>	<u>1-2 gpm</u>	<u>1-2 gpm</u>	<u>1-2 gpm</u>	
Volume purged <i>gallons</i>	<u>17.5</u>	<u>23.25</u>	<u>~35</u>	<u>55</u>	<u>65</u>	
Turbidity (NTU)	<u>&gt;1000</u>	<u>&gt;1000</u>	<u>718</u>	<u>840</u>	<u>147</u>	
pH	<u>5.58</u>	<u>5.31</u>	<u>5.33</u>	<u>5.30</u>	<u>5.31</u>	
Temp. (°C)	<u>15.40</u>	<u>15.80</u>	<u>15.85</u>	<u>15.92</u>	<u>15.95</u>	
DTW	<u>22.57</u>	<u>At pump intake</u>	<u>At pump Intake</u>	<u>At pump intake</u>	<u>At pump intake</u>	

Total volume of water removed (gal): 65  
 Estimated Recharge Rate: \_\_\_\_\_  
 Depth to sediment before development: 25.63 *Hard Bottom* Depth to sediment after development: 25.63  
 Total Surging Time: 25 mins

Development Description: 1355-1400 pump stopped so well can recharge and be surged. DTW=15'  
1415-1425 " " " DTW=17'  
Stopped @ 1500 need to get to water disposal facility - Oaks Landfill



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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation MW-3B (Deep)  
Condition Good/New  
Well Grout Date \_\_\_\_\_  
Well Installation Date \_\_\_\_\_  
Gauge Date 07/09/10  
Sounding Method water level indicator  
Stick up/down (ft) \_\_\_\_\_  
Static Water Level 8.63  
Development Time 15-20 mins  
Surge Device Pump 12v (Proactive Super Twister)  
Weather Sunny 95°

Project Name Grude Land fill  
Project Location Rockville MD  
Developer Initials BC  
Well Development Date 07/09/10  
Gauge Time 0840  
Measurement Ref. top of PVC  
Well Diameter 2"  
Screen Length 20'

### Well Volume Determination:

- A. Well Depth 96.75 97.02 (07/15/10) Well Volume/ft =  $11.81 \times 3 = 35.43$   
B. Depth to Water 8.63 24.57 (07/15/10) (07/15/10)  
C. Liquid Depth (A-B) (ft) 88.12 72.45 (07/15/10)  
D. Well Volume/ft 14.36  $\times 3 = 43.10$   
E. Liquid screen length (ft) 20'

	Beginning	1 <u>07/09</u>	2 <u>07/15</u>	3	4	5
Surge Time (min)	<u>0900</u>	<u>0905</u>	<u>1145</u>			
Pump Rate (gpm)	<u>≈ 1.0</u>	<u>0.5</u>	<u>&lt; 0.25</u>			
Volume purged	<u>5-7</u>	<u>10</u>	<u>40</u>			
Turbidity (NTU)	<u>NIR</u>	<u>&gt; 1000</u>	<u>368</u>			
pH	<u>NIR</u>	<u>5.35</u>	<u>5.41</u>			
Temp °C	<u>NIR</u>	<u>16.64</u>	<u>18.14</u>			

Total volume of water removed (gal): 10-12 gallons (07/09/10) 40 gallons (07/15/10)

Estimated Recharge Rate: \_\_\_\_\_

Depth to sediment before development: 96.75 Hard Bottom Depth to sediment after development: NIR

Total Surging Time: 10 mins

Development Description: Pump on @ 0853

Development stopped pump unable to lift water. DTW ≈ 65' (Pump @ 85').  
[07/15/10] Development Resumed using air lifting method. On @ 0915.  
Distance to well from compressor approx. 180'. Air flowing but water not  
being produced. Height of trimmy pipe raised 6" and water produced.  
On again @ 0950 flow very low compared to previous wells developed  
with air lifting  
Pumping stopped @ 1145 well dry.





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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation	<u>MW-4</u>	Project Name	<u>Grade Landfill</u>
Condition	<u>Good/New</u>	Project Location	<u>Rockville, MD</u>
Well Grout Date	_____	Developer Initials	<u>BK</u>
Well Installation Date	_____	Well Development Date	<u>07/15/10</u>
Gauge Date	<u>07/15/10</u>	Gauge Time	<u>1030</u>
Sounding Method	<u>water level indicator</u>	Measurement Ref.	<u>top of PVC</u>
Stick up/down (ft)	_____	Well Diameter	<u>2"</u>
Static Water Level	<u>6.54</u>	Screen Length	<u>20'</u>
Development Time	<u>95mins</u>		
Surge Device	<u>Pump 12" (Proactive Super Twister)</u>		
Weather	<u>Sunny 90°</u>		

### Well Volume Determination:

A. Well Depth 27.88  
 B. Depth to Water 6.54  
 C. Liquid Depth (A-B) (ft) 21.34  
 D. Well Volume/ft 3.48 x 3 = 10.44  
 E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	1045	1145	1200	1205		
Pump Rate (gpm)	2.5	2.5	2.5	2.5		
Volume purged	25	18 <sup>175</sup>	212	225		
Turbidity (NTU)	>1000	41.4	17.1	8.24		
pH	N/R	6.15	6.13	6.11		
Temp. (°C)	N/R	14.71	14.64	14.62		

Total volume of water removed (gal): 225  
 Estimated Recharge Rate: \_\_\_\_\_  
 Depth to sediment before development: 27.88 Depth to <sup>Hard Bottom</sup> sediment after development: 28.53  
 Total Surging Time: 40mins

Development Description: Pump on @ 1035. Flow = 104/min or 2.6 gpm  
Silty well but clears up good.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation	<u>MW-6</u>	Project Name	<u>Gude Landfill</u>
Condition	<u>Good/Normal</u>	Project Location	<u>Rockville, MD</u>
Well Grout Date		Developer Initials	<u>BK</u>
Well Installation Date		Well Development Date	<u>07/08/10</u>
Gauge Date	<u>07/08/10</u>	Gauge Time	<u>1115</u>
Sounding Method	<u>water level indicator</u>	Measurement Ref.	<u>top of PVC</u>
Stick up/down (ft)	<u>28"</u>	Well Diameter	<u>2"</u>
Static Water Level	<u>16.21</u>	Screen Length	<u>20"</u>
Development Time	<u>120 mins</u>		
Surge Device	<u>Pump 12v (Private Super Twister)</u>		
Weather	<u>Sunny 95°</u>		

### Well Volume Determination:

- A. Well Depth 25.81/27.44  
 B. Depth to Water 16.21  
 C. Liquid Depth (A-B) (ft) 9.60  
 D. Well Volume/ft 1.56 x 3 = 4.68  
 E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	1130	1300	1320			
Pump Rate (gpm)	N/A	N/A	N/A			
Volume purged (gallons)	N/A (25)	≈ 10	≈ 15			
Turbidity (NTU)	>1000	>1000	>1000			
pH	7.30	5.66	5.54			
Temp.	23.95	19.82	18.91			
DTW	At pump intake	At pump intake	At pump intake			

Total volume of water removed (gal): 15-18 gallons (≈ 18 gallons) Drum opened and observed.  
 Estimated Recharge Rate: ≈ 163 ml/min  
 Depth to sediment before development: 25.81 Depth to sediment after development: 27.44  
 Total Surging Time: 20 mins.

Development Description: 1130 - Well going dry during purge. Pumping stopped so well can recharge. Pumping Resumed when well shows recharge  
DTW = 16.51 purged to intake in ~122 seconds (1204 → 1206)  
Intake to 16.50 Recharge time = 1206 → 1241 (35 mins) Estimated Recharge = 163 ml/min

(Average total recharge rate) ←

$$\begin{aligned}
 &25.80 \\
 &- 16.50 \\
 &\hline
 &9.30 = \text{water column} \\
 &9.3 \times 0.163 = 1.5 \text{ gallons} \\
 &1.5 \text{ gallons} / 35 \text{ minutes} = 0.043 \text{ gpm} \\
 &0.043 \text{ gal} = 0.163 \text{ liters} = 163 \text{ ml/min}
 \end{aligned}$$



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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation MW-7  
Condition Good/New  
Well Grout Date \_\_\_\_\_  
Well Installation Date \_\_\_\_\_  
Gauge Date 07/13/10  
Sounding Method water level indicator  
Stick up/down (ft) \_\_\_\_\_  
Static Water Level 41.79  
Development Time 65 mins  
Surge Device Pump 12v (Proactive Super Turbister)  
Weather M/C, Rain Showers, 85°

Project Name Rockville MD, Gude Landfill  
Project Location Rockville MD  
Developer Initials BK  
Well Development Date 07/13/10  
Gauge Time 1110  
Measurement Ref. top of PVC  
Well Diameter 2"  
Screen Length 20'

### Well Volume Determination:

- A. Well Depth 55.50  
B. Depth to Water 41.79  
C. Liquid Depth (A-B) (ft) 13.71  
D. Well Volume/ft  $2.23 \times 3 = 6.70$   
E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	<u>1135</u>	<u>1145</u>	<u>1200</u>	<u>1215</u>		
Pump Rate (gpm)	<u>1.17</u>	<u>1.3</u>	<u>1.3</u>	<u>1.3</u>		
Volume purged (gallons)	<u>18</u>	<u>30</u>	<u>50</u>	<u>70</u>		
Turbidity (NTU)	<u>&gt;1000</u>	<u>17.7</u>	<u>12.8</u>	<u>8.6</u>		
pH	<u>5.75</u>	<u>5.51</u>	<u>5.62</u>	<u>5.59</u>		
Temp (°C)	<u>15.56</u>	<u>15.63</u>	<u>15.62</u>	<u>15.64</u>		

Total volume of water removed (gal): 70

Estimated Recharge Rate: \_\_\_\_\_

Depth to sediment before development: 55.50 <sup>Hard Bottom</sup> Depth to sediment after development: 55.50

Total Surging Time: 20 mins

Development Description: Pump on @ 1120

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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation	<u>MW-8</u>	Project Name	<u>Guide Landfill</u>
Condition	<u>Good/New</u>	Project Location	<u>Rockville MD</u>
Well Grout Date		Developer Initials	<u>BK</u>
Well Installation Date		Well Development Date	<u>07/13/10</u>
Gauge Date	<u>07/13/10</u>	Gauge Time	<u>0840</u>
Sounding Method	<u>water level indicator</u>	Measurement Ref.	<u>top of PVC</u>
Stick up/down (ft)		Well Diameter	<u>2"</u>
Static Water Level	<u>22.94</u>	Screen Length	<u>20'</u>
Development Time	<u>110 mins</u>		
Surge Device	<u>Pump Dr. (Proactive Super Turbister)</u>		
Weather	<u>M/L, Rain showers, 80°</u>		

### Well Volume Determination:

- A. Well Depth 32.49  
 B. Depth to Water 22.94  
 C. Liquid Depth (A-B) (ft) 9.55  
 D. Well Volume/ft 1.56 x 3 = 4.67 gallons  
 E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	<u>1010</u>	<u>1015</u>	<u>1030</u>	<u>1035</u>	<u>1045</u>	
Pump Rate (gpm)	<u>8L/min</u> <u>2.1 gpm</u>	<u>2.4/min</u> <u>0.5 gpm</u>	<u>2.4/min</u> <u>0.5 gpm</u>	<u>2.4/min</u> <u>0.5 gpm</u>	<u>2.4/min</u> <u>0.5 gpm</u>	
Volume purged (gallons)	<u>20</u>	<u>30</u>	<u>37</u>	<u>40</u>	<u>45</u>	
Turbidity (NTU)	<u>&gt;1000</u>	<u>453</u>	<u>30.4</u>	<u>16.5</u>	<u>7.48</u>	
pH	<u>5.81</u>	<u>5.30</u>	<u>5.34</u>	<u>5.44</u>	<u>5.40</u>	
Temp. (°C)	<u>15.55</u>	<u>17.11</u>	<u>17.28</u>	<u>17.04</u>	<u>17.12</u>	
			<u>DTW = 24.98</u>		<u>DTW = 25.11</u>	

Total volume of water removed (gal): 45

Estimated Recharge Rate: \_\_\_\_\_

Depth to sediment before development: 22.94 <sup>Hard Bottom</sup> Depth to sediment after development: 32.49

Total Surging Time: 20 mins 32.49

Development Description: Pump on @ 0855 Well empty/pump surging & pulsing @ 0901.  
0905 pump stopped - well recharging. Recharged to 23' surged & Pumped dry.  
Recharged again to 23' surged & Pumped dry. Recharged again to 23' and  
pumped @ ~ sustainable rate. @ 230 flow increased slightly BK



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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation MW-9  
 Condition Good/New  
 Well Grout Date \_\_\_\_\_  
 Well Installation Date \_\_\_\_\_  
 Gauge Date 07/09/10  
 Sounding Method water level indicator  
 Stick up/down (ft) Flush Mount  
 Static Water Level 18.21  
 Development Time 70 mins  
 Surge Device Pump 12v  
 Weather Sunny 95°

Project Name Gude Landfill  
 Project Location Rockville MD  
 Developer Initials BK  
 Well Development Date 07/09/10  
 Gauge Time 1200  
 Measurement Ref. top of PVC  
 Well Diameter 2"  
 Screen Length 20"

### Well Volume Determination:

- A. Well Depth 24.11  
 B. Depth to Water 18.21  
 C. Liquid Depth (A-B) (ft) 5.9  
 D. Well Volume/ft  $0.96 \times 3 = 2.89$  gallons  
 E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	<u>1210</u>	<u>1235</u>	<u>1250</u>	<u>1305</u>	<u>1310</u>	
Pump Rate (gpm)	<u>&lt;1.0</u>	<u>&lt;1.0</u>	<u>&lt;1.0</u>	<u>&lt;1.0</u>	<u>&lt;1.0</u>	
Volume purged	<u>3 gal.</u>	<u>7</u>	<u>9</u>	<u>11</u>	<u>12</u>	
Turbidity (NTU)	<u>&gt;1000</u>	<u>615</u>	<u>220</u>	<u>17.3</u>	<u>7.7</u>	
pH	<u>6.39</u>	<u>5.86</u>	<u>5.88</u>	<u>5.85</u>	<u>5.91</u>	
Temp.	<u>17.31</u>	<u>24.86 (flow thru cell)</u>	<u>24.83</u>	<u>24.92</u>	<u>24.94</u>	

Total volume of water removed (gal): 12

Estimated Recharge Rate: \_\_\_\_\_

Depth to sediment before development: 24.11 Depth to <sup>Hard Bottom</sup> sediment after development: 24.11

Total Surging Time: 20 mins

### Development Description:

Water level @ pump intake. Flow rate sporadic. Pump surging.  
Temp high due to flow thru cell (VSI) being in sun and sporadic  
flow rate.





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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation MW-10  
Condition Good/New  
Well Grout Date \_\_\_\_\_  
Well Installation Date \_\_\_\_\_  
Gauge Date 07/12/10  
Sounding Method water level indicator  
Stick up/down (ft) F.M.  
Static Water Level 7.55  
Development Time 120 mins  
Surge Device Pump (Pneumatic Super-Turbo)  
Weather Sunny 85°

Project Name Grade Landfill  
Project Location Rockville MD  
Developer Initials BK  
Well Development Date 07/12/10  
Gauge Time 1125  
Measurement Ref. top of PVC  
Well Diameter 2"  
Screen Length 20'

### Well Volume Determination:

- A. Well Depth 24.70  
B. Depth to Water 7.55  
C. Liquid Depth (A-B) (ft) 17.15  
D. Well Volume/ft  $2.80 \times 3 = 8.40$  gallons  
E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	<u>1140</u>	<u>1210</u>	<u>1225</u>	<u>1255</u>	<u>1300</u>	<u>1330</u>
Pump Rate (gpm)	<u>1.5 L/min 0.4 gal/min</u>	<u>1.5 L/min 0.4 gal/min</u>	<u>1.5 L/min 0.4 gal/min</u>	<u>0.5 L/min 0.13 gal/min</u>	<u>1.0 L/min 0.26 gal/min</u>	<u>1.0 L/min 0.26 gal/min</u>
Volume purged	<u>12</u>	<u>24-25</u>	<u>30</u>	<u>32</u>	<u>33</u>	<u>41</u>
Turbidity (NTU)	<u>&gt;1000</u>	<u>&gt;1000</u>	<u>&gt;1000</u>	<u>631</u>	<u>287</u>	<u>45.9</u>
pH	<u>6.64</u>	<u>5.79</u>	<u>5.43</u>	<u>5.40</u>	<u>5.42</u>	<u>5.38</u>
Temp. (°C)	<u>16.97</u>	<u>15.29</u>	<u>15.16</u>	<u>15.17</u>	<u>15.22</u>	<u>15.26</u>

Total volume of water removed (gal): 41 gallons

Estimated Recharge Rate: \_\_\_\_\_

Depth to sediment before development: 24.70 Depth to <sup>Hard Bottom</sup> sediment after development: 24.70

Total Surging Time: 20 mins

Development Description: Pump on @ 1128 - 1133 @ 2 gpm; 1133 → 1140 @ 1.5 L/min (or 0.4 gal/min)  
1230 DWS @ pump intake - stopped to recharge. Restarted @ 1240 @ 0.5 L/min → DWS = 17'  
1300 Flow increased to 1.0 L/min / 0.26 gal/min





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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation	<u>MW-11A</u>	Project Name	<u>Gude Landfill</u>
Condition	<u>Good/New</u>	Project Location	<u>Rockville MD</u>
Well Grout Date		Developer Initials	<u>BK</u>
Well Installation Date		Well Development Date	<u>07/12/10</u>
Gauge Date	<u>07/12/10</u>	Gauge Time	<u>0845</u>
Sounding Method	<u>water level indicator</u>	Measurement Ref.	<u>top of PVC</u>
Stick up/down (ft)	<u>F.M.</u>	Well Diameter	<u>2"</u>
Static Water Level	<u>15.92</u>	Screen Length	<u>20'</u>
Development Time	<u>120 mins</u>		
Surge Device	<u>Pump 12v (Proactive Super Turbine)</u>		
Weather	<u>Sunny 80°</u>		

### Well Volume Determination:

- A. Well Depth 29.43  
 B. Depth to Water 15.92  
 C. Liquid Depth (A-B) (ft) 13.51  
 D. Well Volume/ft 2.20 x 3 = 6.61 gallons  
 E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	<u>0930</u>	<u>1005</u>	<u>1020</u>	<u>1040</u>	<u>1045</u>	<u>1100</u>
Pump Rate (gpm)	<u>1.0-1.5</u>	<u>0.75L/min</u>	<u>1.0L/min</u>	<u>1.0L/min</u>	<u>1.0L/min</u>	<u>1.0L/min</u>
Volume purged (gal.)	<u>9</u>	<u>17</u>	<u>25</u>	<u>30</u>	<u>31</u>	<u>35</u>
Turbidity (NTU)	<u>&gt;1000</u>	<u>&gt;1000</u>	<u>&gt;1000</u>	<u>326</u>	<u>134</u>	<u>46.6</u>
pH	<u>5.11</u>	<u>5.17</u>	<u>5.18</u>	<u>5.20</u>	<u>5.22</u>	<u>5.18</u>
Temp. (°C)	<u>13.22</u>	<u>13.17</u>	<u>14.21</u>	<u>13.88</u>	<u>14.01</u>	<u>14.12</u>

Total volume of water removed (gal): 35

Estimated Recharge Rate: \_\_\_\_\_

Depth to sediment before development: 29.43 Depth to sediment after development: 29.43 (Hard Bottom)

Total Surging Time: 25 mins

### Development Description:

Pump on @ 0900 - Well surged @ 0950-0900. Well pumped for 7-10 mins before going dry.  
Approx. 7 gallons removed. Pump stopped to recharge. Resumed when DTW = 20' (15-20 mins.)  
Pump restarted @ 0930 - stopped @ 0938 (well needs recharge.) Approx 8 gallons removed.  
0950 - Surging Resumed 1005 - Pump Restarted w/ Reduced flow (well valve).



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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation	<u>MW-11B</u>	Project Name	<u>Gravel Landfill</u>
Condition	<u>Good/New</u>	Project Location	<u>Rockville MD</u>
Well Grout Date	_____	Developer Initials	<u>BK</u>
Well Installation Date	_____	Well Development Date	<u>07/14/10</u>
Gauge Date	<u>07/14/10</u>	Gauge Time	<u>1310</u>
Sounding Method	<u>water level indicator</u>	Measurement Ref.	<u>top of PVC</u>
Stick up/down (ft)	<u>F.M.</u>	Well Diameter	<u>2"</u>
Static Water Level	<u>17.13</u>	Screen Length	<u>20'</u>
Development Time	<u>100 mins</u>		
Surge Device	<u>Air lift / Pump 12</u>		
Weather	<u>Sunny 85°</u>		

### Well Volume Determination:

- A. Well Depth 88.40  
 B. Depth to Water 17.13  
 C. Liquid Depth (A-B) (ft) 71.27  
 D. Well Volume/ft 11.62 x 3 = 34.85 gallons  
 E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	<u>1405</u>	<u>1420</u>	<u>1430</u>	<u>1450</u>		
Pump Rate (gpm)	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>	<u>1.8</u>		
Volume purged	<u>128</u>	<u>137</u>	<u>173</u>	<u>209</u>		
Turbidity (NTU)	<u>&gt;1000</u>	<u>243</u>	<u>178</u>	<u>3.3</u>		
pH	<u>5.64</u>	<u>5.22</u>	<u>5.37</u>	<u>5.36</u>		
Temp (°C)	<u>13.63</u>	<u>13.49</u>	<u>13.56</u>	<u>13.58</u>		

Total volume of water removed (gal): 209

Estimated Recharge Rate: \_\_\_\_\_

Depth to sediment before development: 88.40 Depth to <sup>Hard Bottom</sup> sediment after development: 90.25

Total Surging Time: 25 mins.

Development Description: Compressor on @ 1325. Drum (1st) fill @ 1335. 2nd drum  
fill @ 1347. Submersible pump on @ 1356 → off @ 1450



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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation MW-12

Condition Good / New

Well Grout Date \_\_\_\_\_

Well Installation Date \_\_\_\_\_

Gauge Date 07/09/10

Sounding Method water level indicator

Stick up/down (ft) \_\_\_\_\_

Static Water Level 14.24

Development Time 45 mins

Surge Device Pump 12 (Proactive Super-Turbo)

Weather Sunny 95°

Project Name Gude Landfill

Project Location Rockville MD

Developer Initials BK

Well Development Date 07/09/10

Gauge Time 1315-1320

Measurement Ref. top of PVC

Well Diameter 2"

Screen Length 20'

### Well Volume Determination:

- A. Well Depth 24.65
- B. Depth to Water 14.24
- C. Liquid Depth (A-B) (ft) 10.41
- D. Well Volume/ft 1.70 x 3 = 5.10
- E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	<u>1330</u>	<u>1340</u>	<u>1350</u>	<u>1400</u>		
Pump Rate (gpm)	<u>0.75-1.0</u>	<u>0.75-1.0</u>	<u>0.75-1.0</u>	<u>0.75-1.0</u>		
Volume purged	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>		
Turbidity (NTU)	<u>&gt;1000</u>	<u>168</u>	<u>34</u>	<u>4.2</u>		
pH	<u>5.60</u>	<u>5.17</u>	<u>5.24</u>	<u>5.29</u>		
Temp.	<u>17.36</u>	<u>18.11</u> Flow Thru Cell	<u>18.26</u> Flow Thru Cell	<u>18.18</u> Flow Thru Cell		

Total volume of water removed (gal): 40

Estimated Recharge Rate: \_\_\_\_\_

Depth to sediment before development: 24.65 Depth to <sup>Well bottom</sup> ~~sediment~~ after development: 24.65

Total Surging Time: 20 mins

Development Description: This well is a good producer.

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Signatures

11/12/10





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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation	<u>MW-13A</u>	Project Name	<u>Guide Landfill</u>
Condition	<u>Good/Now</u>	Project Location	<u>Rockville, MD</u>
Well Grout Date		Developer Initials	<u>BK</u>
Well Installation Date		Well Development Date	<u>07/16/10</u>
Gauge Date	<u>07/16/10</u>	Gauge Time	<u>0825</u>
Sounding Method	<u>water level indicator</u>	Measurement Ref.	<u>top of PVC</u>
Stick up/down (ft)		Well Diameter	<u>2"</u>
Static Water Level	<u>7.05</u>	Screen Length	<u>20'</u>
Development Time	<u>50 mins</u>		
Surge Device	<u>Pump 12v (Proactive Super Twister)</u>		
Weather	<u>Sunny 90°</u>		

### Well Volume Determination:

A. Well Depth	<u>26.72</u>
B. Depth to Water	<u>7.05</u>
C. Liquid Depth (A-B) (ft)	<u>19.67</u>
D. Well Volume/ft	<u>3.21 x 3 = 9.63 gallons</u>
E. Liquid screen length (ft)	<u>20'</u>

	Beginning	1	2	3	4	5
Surge Time (min)	<u>0837</u>	<u>0850</u>	<u>0900</u>	<u>0910</u>	<u>0915</u>	
Pump Rate (gpm)	<u>2.5</u>	<u>2.5</u>	<u>2.5</u>	<u>2.5</u>	<u>2.5</u>	
Volume purged	<u>60</u>	<u>92</u>	<u>117</u>	<u>142</u>	<u>155</u>	
Turbidity (NTU)	<u>&gt;1000</u>	<u>65.1</u>	<u>587</u>	<u>7.70</u>	<u>5.22</u>	
pH	<u>NIR</u>	<u>5.73</u>	<u>5.18</u>	<u>5.13</u>	<u>5.13</u>	
Temp (°C)	<u>NIR</u>	<u>12.95</u>	<u>12.97</u>	<u>12.96</u>	<u>12.97</u>	

Total volume of water removed (gal): 155

Estimated Recharge Rate: \_\_\_\_\_

Depth to sediment before development: 26.72      Hard Bottom  
Depth to sediment after development: 26.88

Total Surging Time: 20 mins

Development Description: Pump on @ 0813.



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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation MW-13B (Deep) Project Name Grade Level 1611  
Condition New Good Project Location Rockville MD  
Well Grout Date \_\_\_\_\_ Developer Initials BK  
Well Installation Date \_\_\_\_\_ Well Development Date 07/15/10  
Gauge Date 07/15/10 Gauge Time 1350  
Sounding Method water level indicator Measurement Ref. top of PVC  
Stick up/down (ft) \_\_\_\_\_ Well Diameter 2"  
Static Water Level 5.98 Screen Length 20'  
Development Time 40 mins  
Surge Device AirLift & Surge Block  
Weather Sunny 90°

### Well Volume Determination:

- A. Well Depth 97.45  
B. Depth to Water 5.98  
C. Liquid Depth (A-B) (ft) 91.47  
D. Well Volume/ft  $14.91 \times 3 = 44.73$   
E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	<u>1410</u>	<u>1425</u>	<u>1430</u>			
Pump Rate (gpm)	<u>12</u>	<u>12</u>	<u>12</u>			
Volume purged	<u>55</u>	<u>235</u>	<u>295</u>			
Turbidity (NTU)	<u>43.8</u>	<u>13.4</u>	<u>9.93</u>			
pH	<u>7.11</u>	<u>6.32</u>	<u>6.29</u>			
Temp (°C)	<u>13.24</u>	<u>12.71</u>	<u>12.73</u>			

Total volume of water removed (gal): 295

Estimated Recharge Rate: \_\_\_\_\_

Depth to sediment before development: 97.45 <sup>Hand Bottom</sup> Depth to sediment after development: 97.45

Total Surging Time: 15 mins

Development Description: Compressor on @ 1405. First down fill @ 1410. 2nd @ 1415.



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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation	<u>OB02A</u>	Project Name	<u>Gude Landfill</u>
Condition	<u>Good/Existing</u>	Project Location	<u>Rockville MD</u>
Well Grout Date	_____	Developer Initials	<u>BK</u>
Well Installation Date	_____	Well Development Date	<u>07/12/10</u>
Gauge Date	<u>07/12/10</u>	Gauge Time	<u>1415</u>
Sounding Method	<u>water level indicator</u>	Measurement Ref.	<u>top of PVC</u>
Stick up/down (ft)	_____	Well Diameter	<u>2"</u>
Static Water Level	<u>16.75</u>	Screen Length	<u>20'</u>
Development Time	<u>60 mins</u>		
Surge Device	<u>Pump 12v (Proactive Super-Turbo)</u>		
Weather	<u>T-storms 85°</u>		

### Well Volume Determination:

- A. Well Depth 78.92  
 B. Depth to Water 16.75  
 C. Liquid Depth (A-B) (ft) 62.17  
 D. Well Volume/ft 10.13 x 3 = 30.40 gallons  
 E. Liquid screen length (ft) 20'

	Beginning	1	2	3	4	5
Surge Time (min)	<u>1445</u>	<u>1500</u>	<u>1515</u>			
Pump Rate (gpm)	<u>2.0</u>	<u>2.0</u>	<u>2.0</u>			
Volume purged (gallons)	<u>20</u>	<u>50</u>	<u>80</u>			
Turbidity (NTU)	<u>17.1</u>	<u>2.38</u>	<u>1.86</u>			
pH	<u>6.48</u>	<u>6.44</u>	<u>6.18</u>			
Temp (°C)	<u>15.27</u>	<u>15.29</u>	<u>15.24</u>			

Total volume of water removed (gal): 80  
 Estimated Recharge Rate: \_\_\_\_\_  
 Depth to sediment before development: 78.92 Depth to <sup>Hard Bottom</sup> sediment after development: 78.92  
 Total Surging Time: 20 mins

Development Description: Pump on @ 1435 (Flow rate = 2.0 gallons/minute)  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





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## FIELD RECORD OF WELL DEVELOPMENT

Well Designation	<u>OB03</u>	Project Name	<u>Grade Level Fill</u>
Condition	<u>Good / Existing</u>	Project Location	<u>Rockville MD</u>
Well Grout Date		Developer Initials	<u>BK</u>
Well Installation Date		Well Development Date	<u>07/14/10</u>
Gauge Date	<u>07/14/10</u>	Gauge Time	<u>0930 0930</u>
Sounding Method	<u>water level indicator</u>	Measurement Ref.	<u>top of PVC</u>
Stick up/down (ft)		Well Diameter	<u>2'</u>
Static Water Level	<u>82.79</u>	Screen Length	
Development Time	<u>130 mins</u>		
Surge Device	<u>Airlift &amp; Pump Dr</u>		
Weather	<u>M/L, Rain Showers 80°</u>		

### Well Volume Determination:

A. Well Depth	<u>135.26</u>
B. Depth to Water	<u>22.79</u>
C. Liquid Depth (A-B) (ft)	<u>112.47</u>
D. Well Volume/ft	<u>18.33 x 3 = 55.0 gallons</u>
E. Liquid screen length (ft)	<u>20'</u>

	Beginning	1	2	3	4	5
Surge Time (min)	<u>1120</u>	<u>1130</u>	<u>1140</u>			
Pump Rate (gpm)	<u>2</u>	<u>2</u>	<u>2</u>			
Volume purged	<u>175</u>	<u>195</u>	<u>215</u>			
Turbidity (NTU)	<u>506</u>	<u>85.7</u>	<u>5.7</u>			
pH	<u>6.97</u>	<u>5.67</u>	<u>5.66</u>			
Temp (°C)	<u>15.05</u>	<u>15.04</u>	<u>15.08</u>			

Total volume of water removed (gal): 215


Estimated Recharge Rate: \_\_\_\_\_

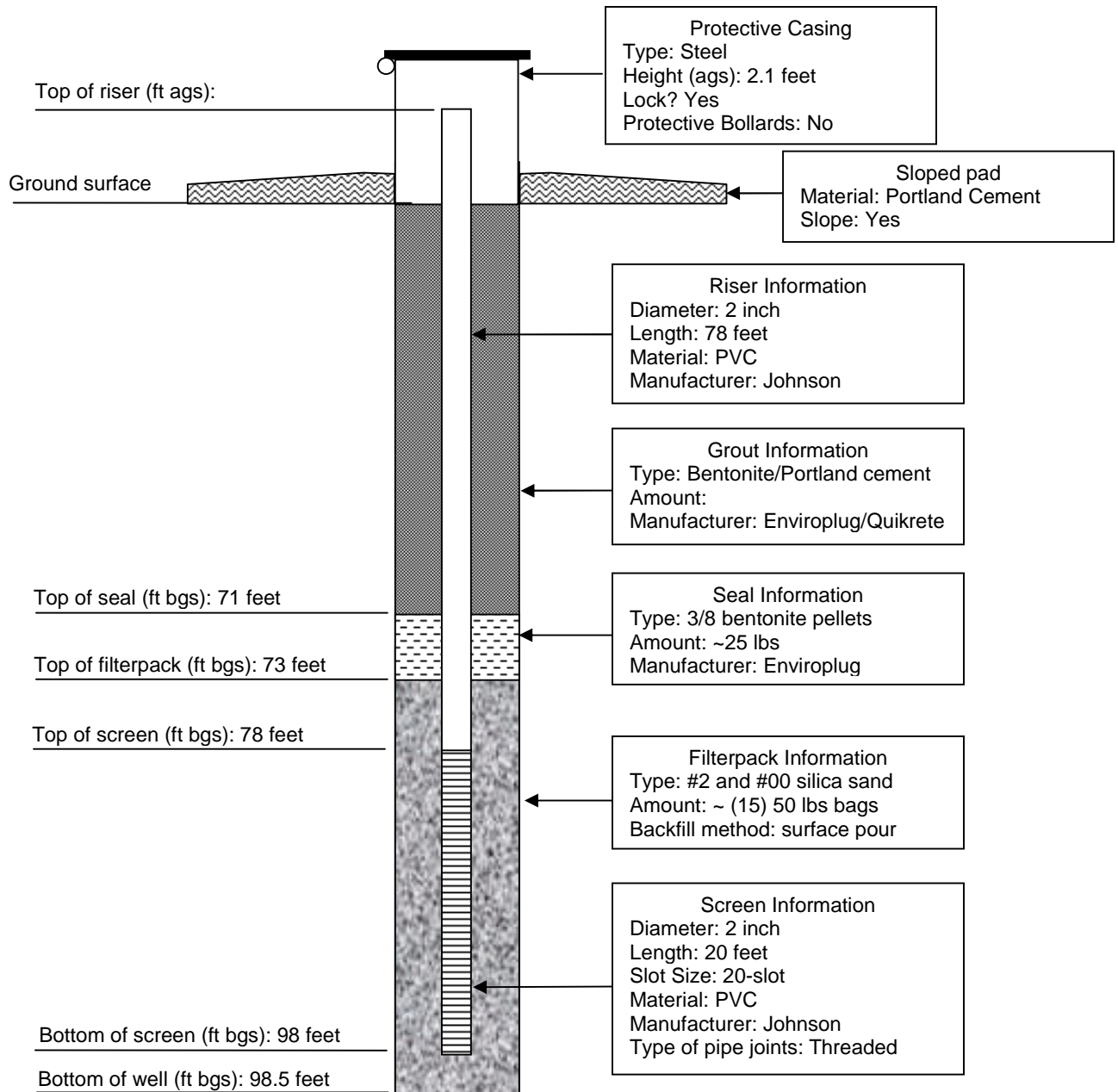
Depth to sediment before development: 135.26 <sup>Bottom</sup> Depth to sediment after development: 138.45

Total Surging Time: 30 mins

Development Description: OB03A DTB ≈ 96.75' Air on @ 1000  
being used to develop this well (Air lifting & submersible pump.  
(At 55 gal Turb = >1000 NTU.) 2nd drum filled in 8-10 mins. 55 gal  
3rd drum filled in 12 mins. Switched to submersible after 3rd drum  
filled w/ air lifting. Air lifting 1000-1034. DTB after air lifting = 138.45'  
Submersible on @ 1115

# RECORD OF MONITORING WELL CONSTRUCTION (STICK-UP)

 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <div style="text-align: center; font-size: 1.2em;"><b>MW-1</b></div>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 6/4/10 1230 Time Finished: 1440
Location: Rockville, MD	Depth to Water: 45 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA and Air Rotary




Note: All features not to scale

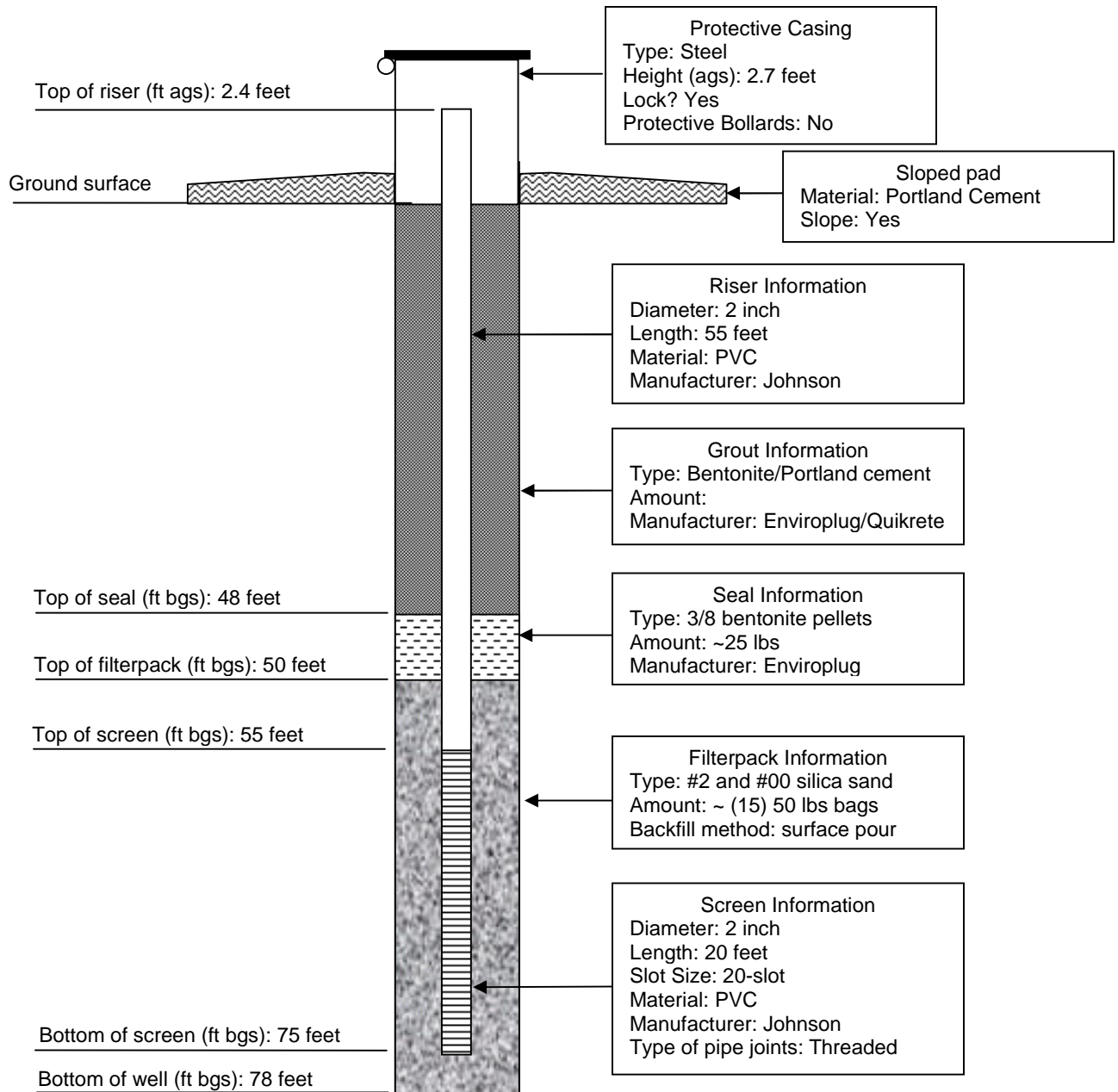
ags – Above Ground Surface  
bgs – Below Ground Surface



# RECORD OF MONITORING WELL CONSTRUCTION

## (STICK-UP)


 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <div style="text-align: center; font-size: 1.2em;"><b>MW-2A</b></div>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 6/9/10 1048 Time Finished: 1215
Location: Rockville, MD	Depth to Water: 63 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA and Air Rotary

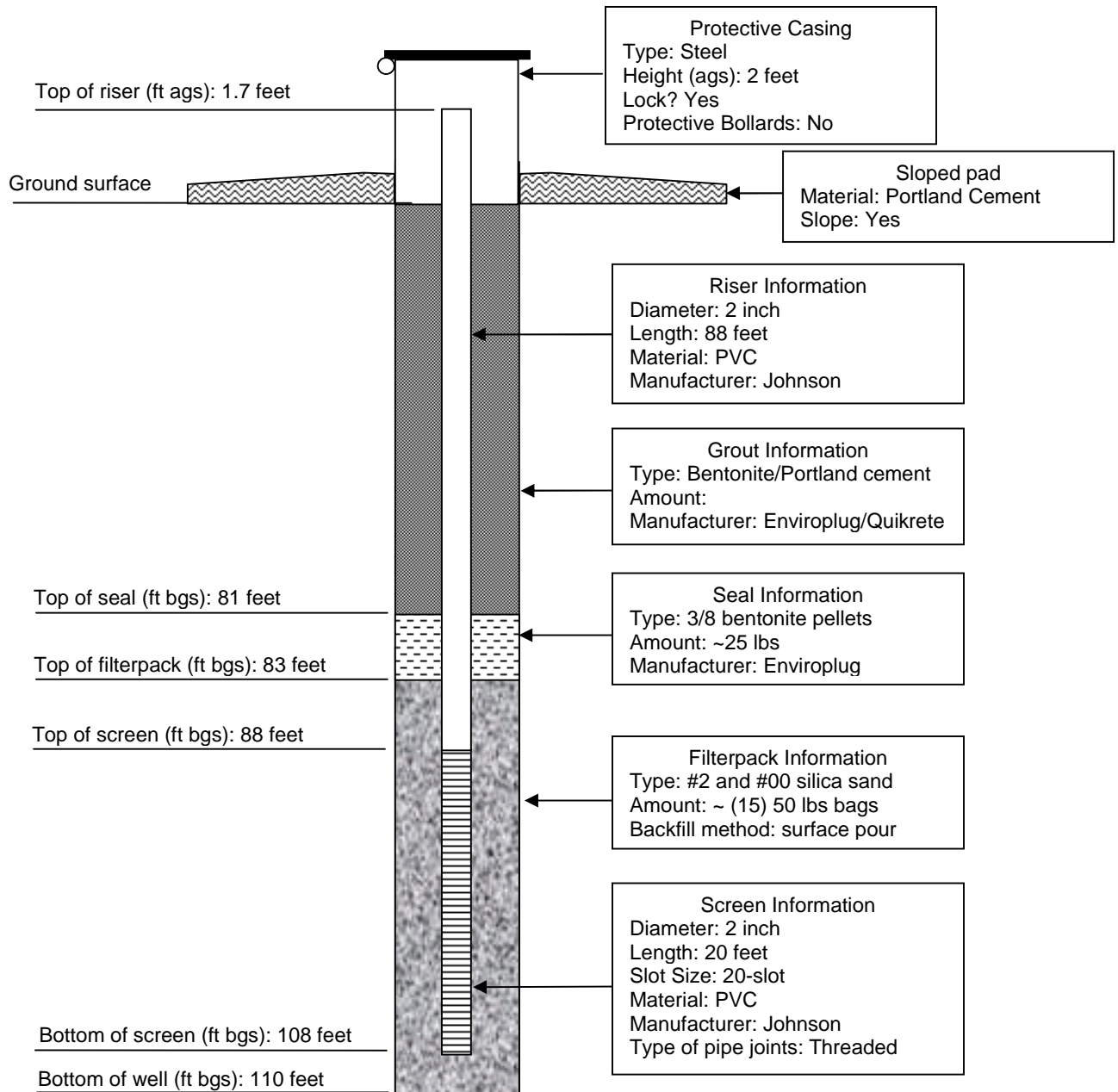


Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface

# RECORD OF MONITORING WELL CONSTRUCTION (STICK-UP)


 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <b>MW-2B</b>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 6/17/10 1118 Time Finished: 1302
Location: Rockville, MD	Depth to Water: 63 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA and Air Rotary

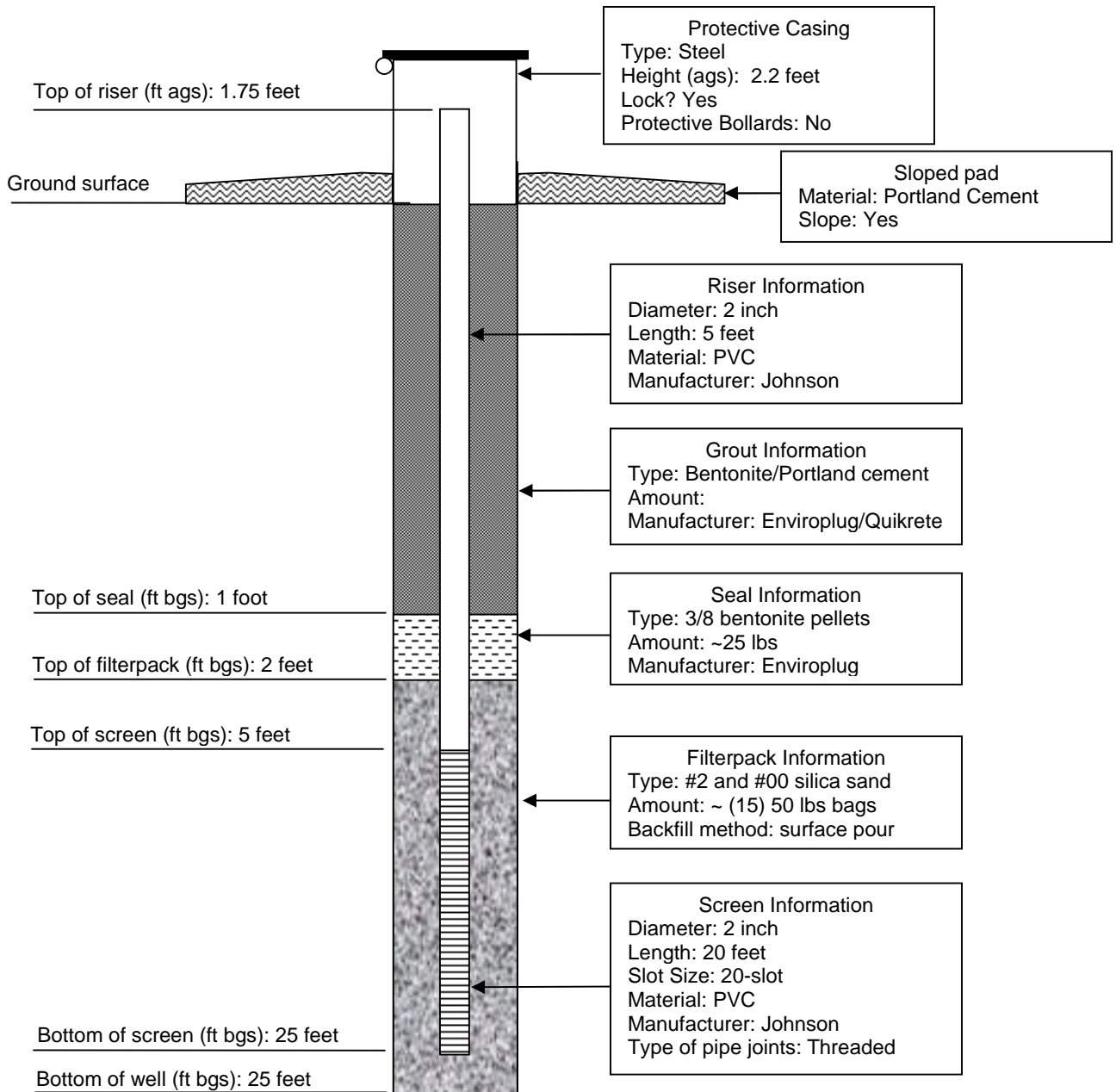


Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface

# RECORD OF MONITORING WELL CONSTRUCTION (STICK-UP)


 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <h2 style="text-align: center;">MW-3A</h2>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 6/18/10 0945 Time Finished: 1025
Location: Rockville, MD	Depth to Water: 10 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA

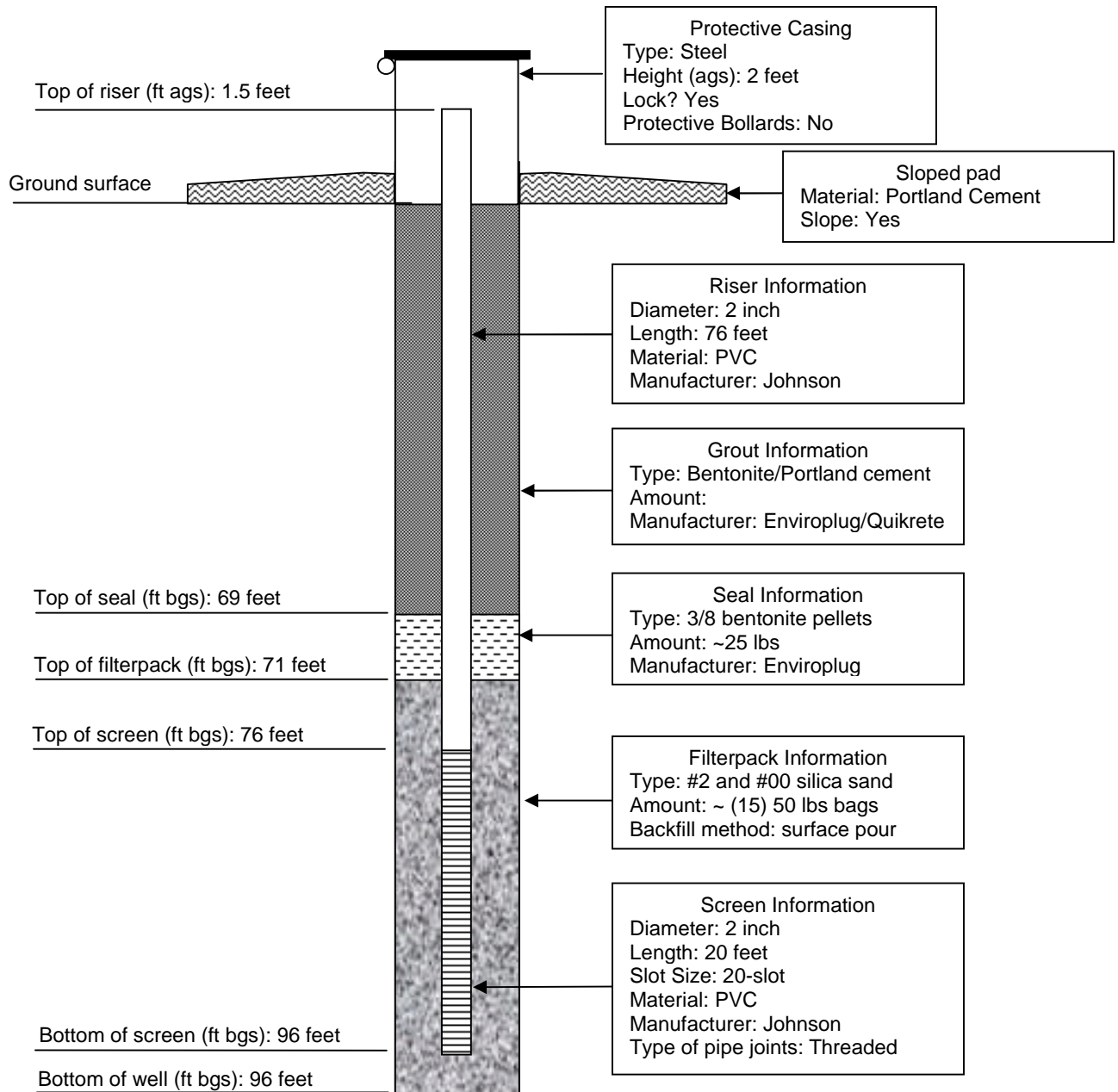


Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface

# RECORD OF MONITORING WELL CONSTRUCTION (STICK-UP)


 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <b>MW-3B</b>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 6/22/10 0745 Time Finished: 0847
Location: Rockville, MD	Depth to Water: 7.6 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA and Air Rotary

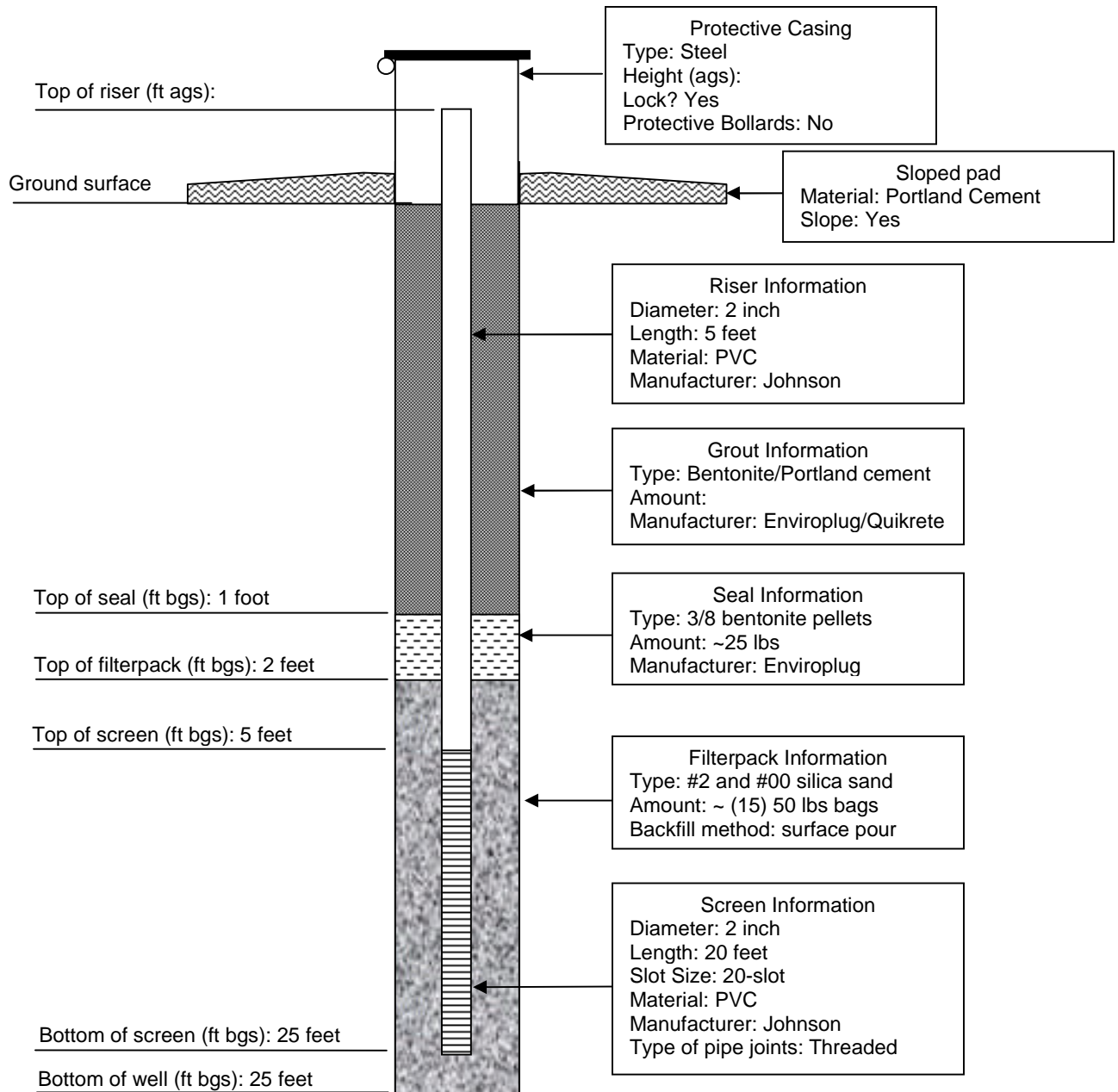


Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface

# RECORD OF MONITORING WELL CONSTRUCTION (STICK-UP)


 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <div style="text-align: center; font-weight: bold;">MW-4</div>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 7/6/10 0920 Time Finished: 1000
Location: Rockville, MD	Depth to Water: 8 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA

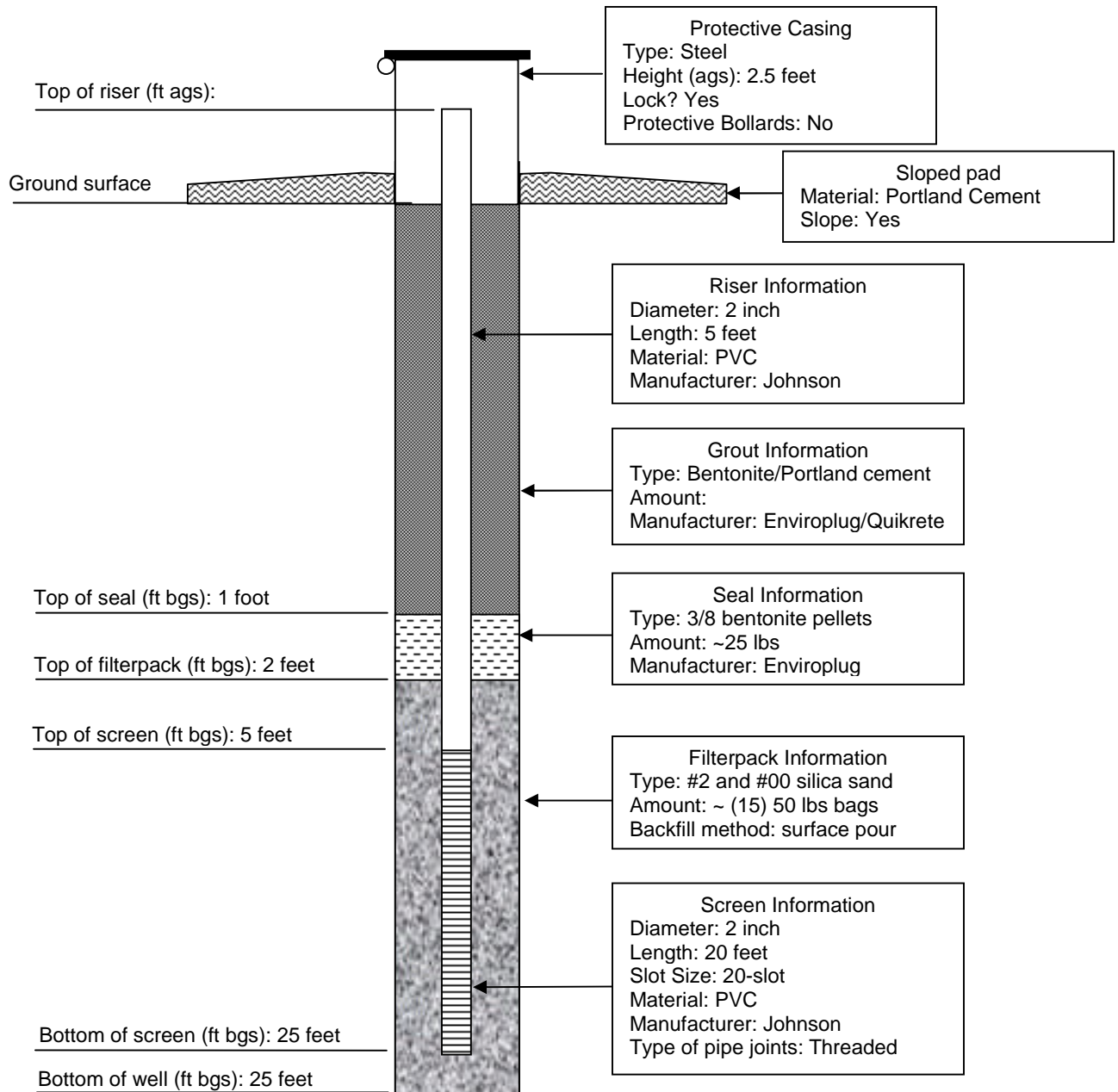


Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface

# RECORD OF MONITORING WELL CONSTRUCTION (STICK-UP)

 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <div style="text-align: center; font-weight: bold; font-size: 1.2em;">MW-6</div>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 6/22/10 1125 Time Finished: 1345
Location: Rockville, MD	Depth to Water: 15 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA




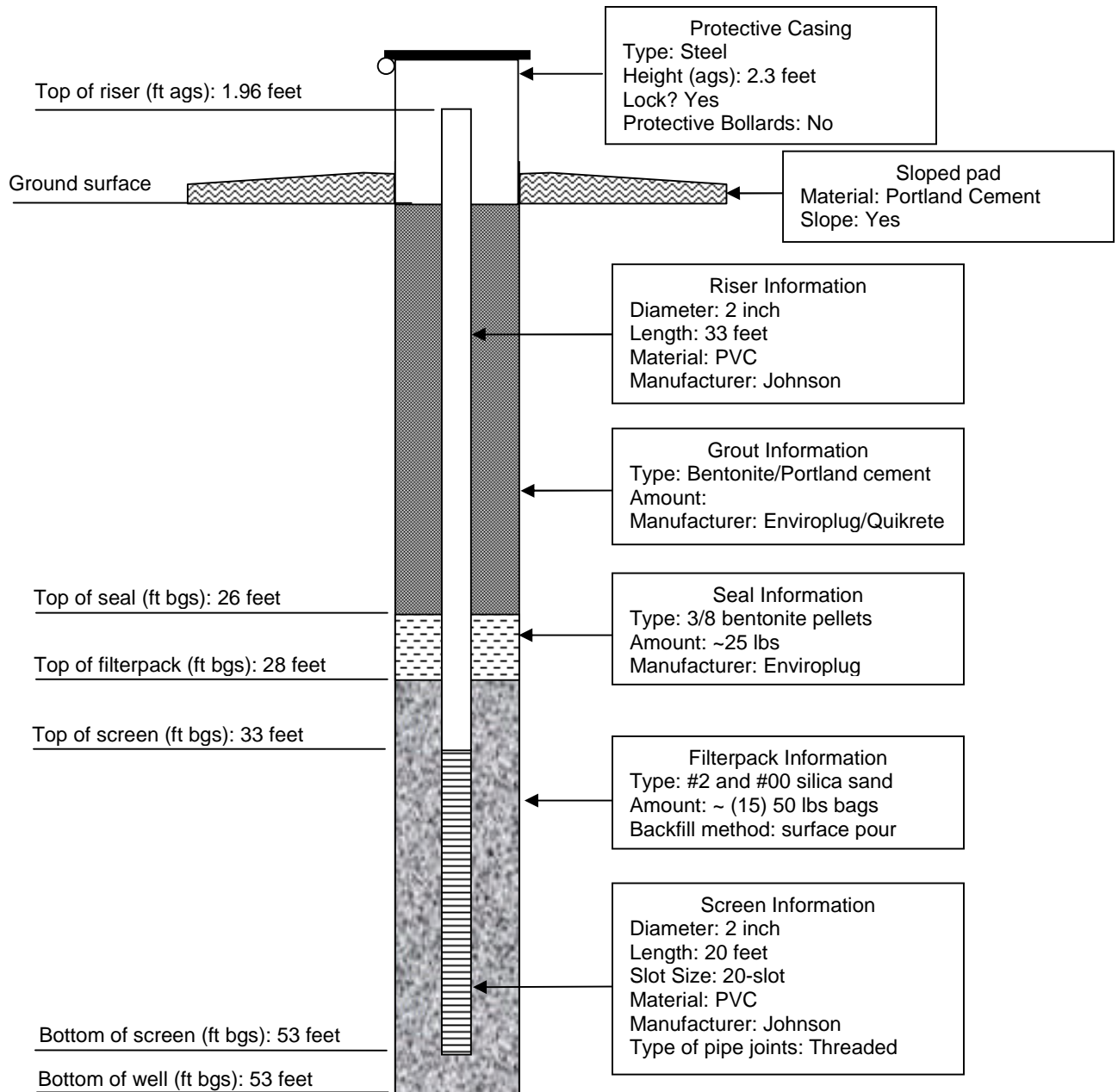
Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface



# RECORD OF MONITORING WELL CONSTRUCTION (STICK-UP)


 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <div style="text-align: center; font-size: 1.2em;"><b>MW-7</b></div>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 6/24/10 1339 Time Finished: 1430
Location: Rockville, MD	Depth to Water: 39.5 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA and Air Rotary

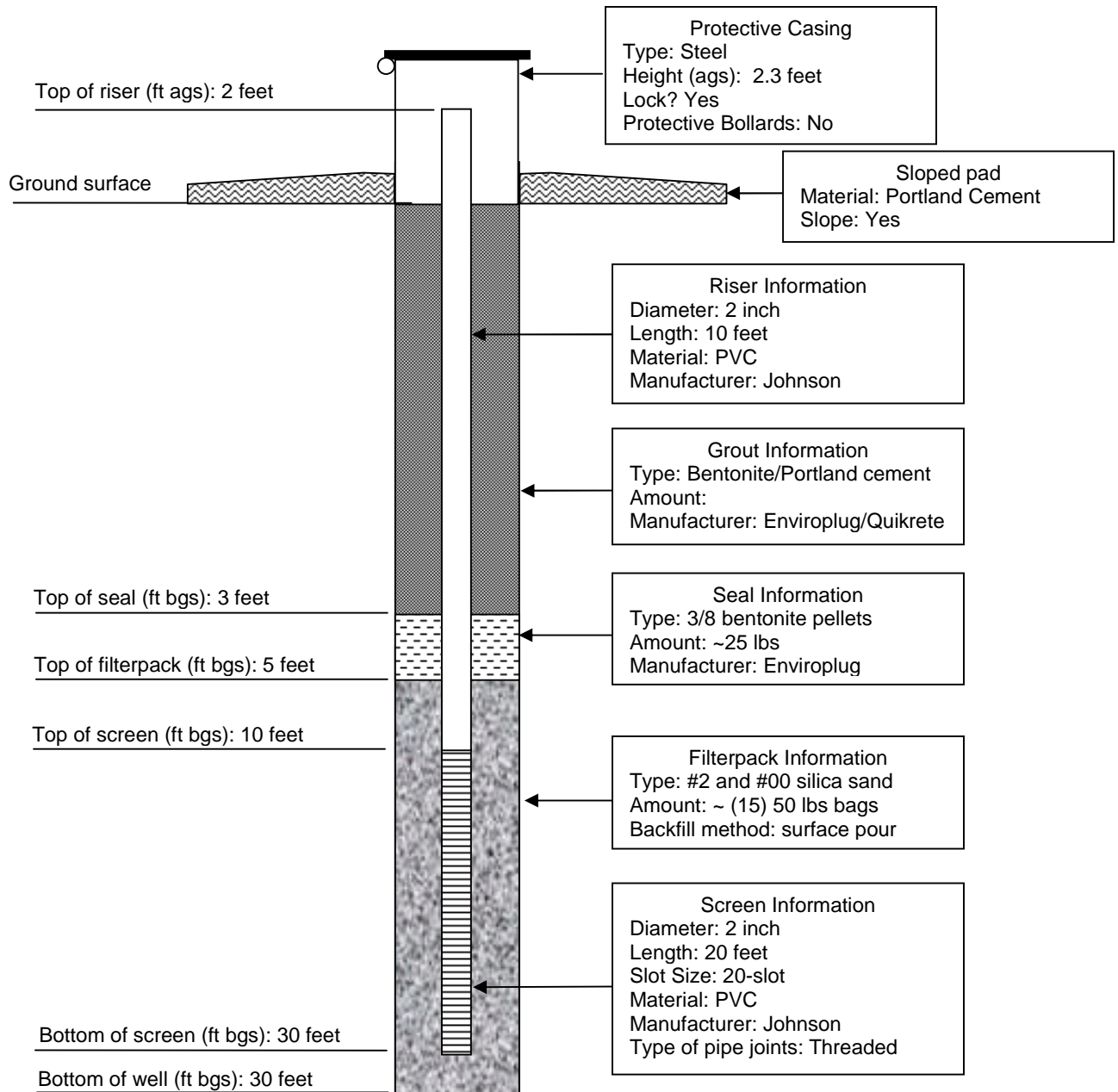


Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface

# RECORD OF MONITORING WELL CONSTRUCTION (STICK-UP)

 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <h2 style="text-align: center;">MW-8</h2>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 6/23/10 1032 Time Finished: 1100
Location: Rockville, MD	Depth to Water: 15 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA and Air Rotary




Note: All features not to scale

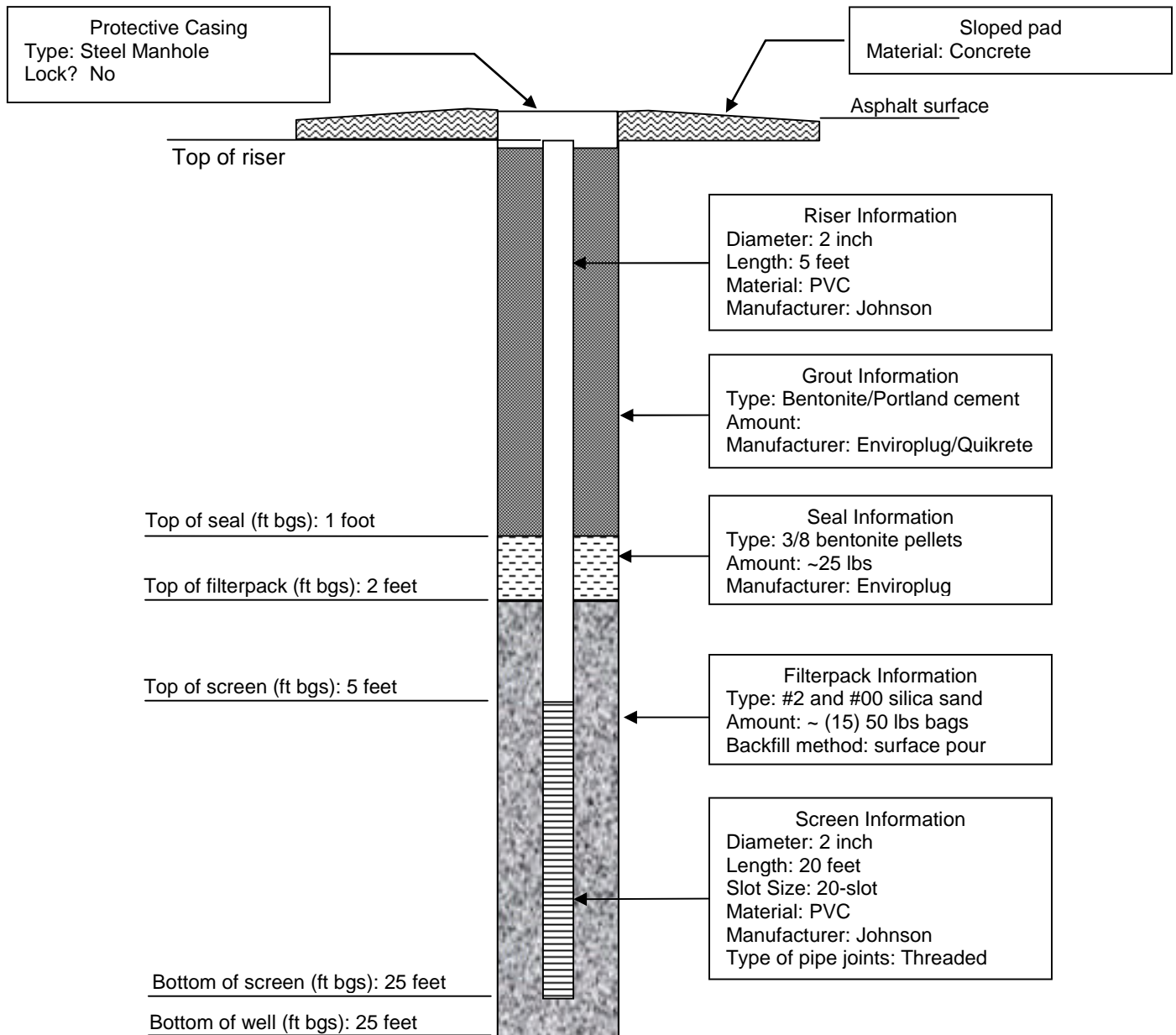
ags – Above Ground Surface  
bgs – Below Ground Surface



# RECORD OF MONITORING WELL CONSTRUCTION

## (FLUSH MOUNT)

 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <div style="text-align: center; font-size: 1.2em;"><b>MW-9</b></div>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 7/6/10 1244 Time Finished: 1432
Location: Rockville, MD	Depth to Water: 20 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA




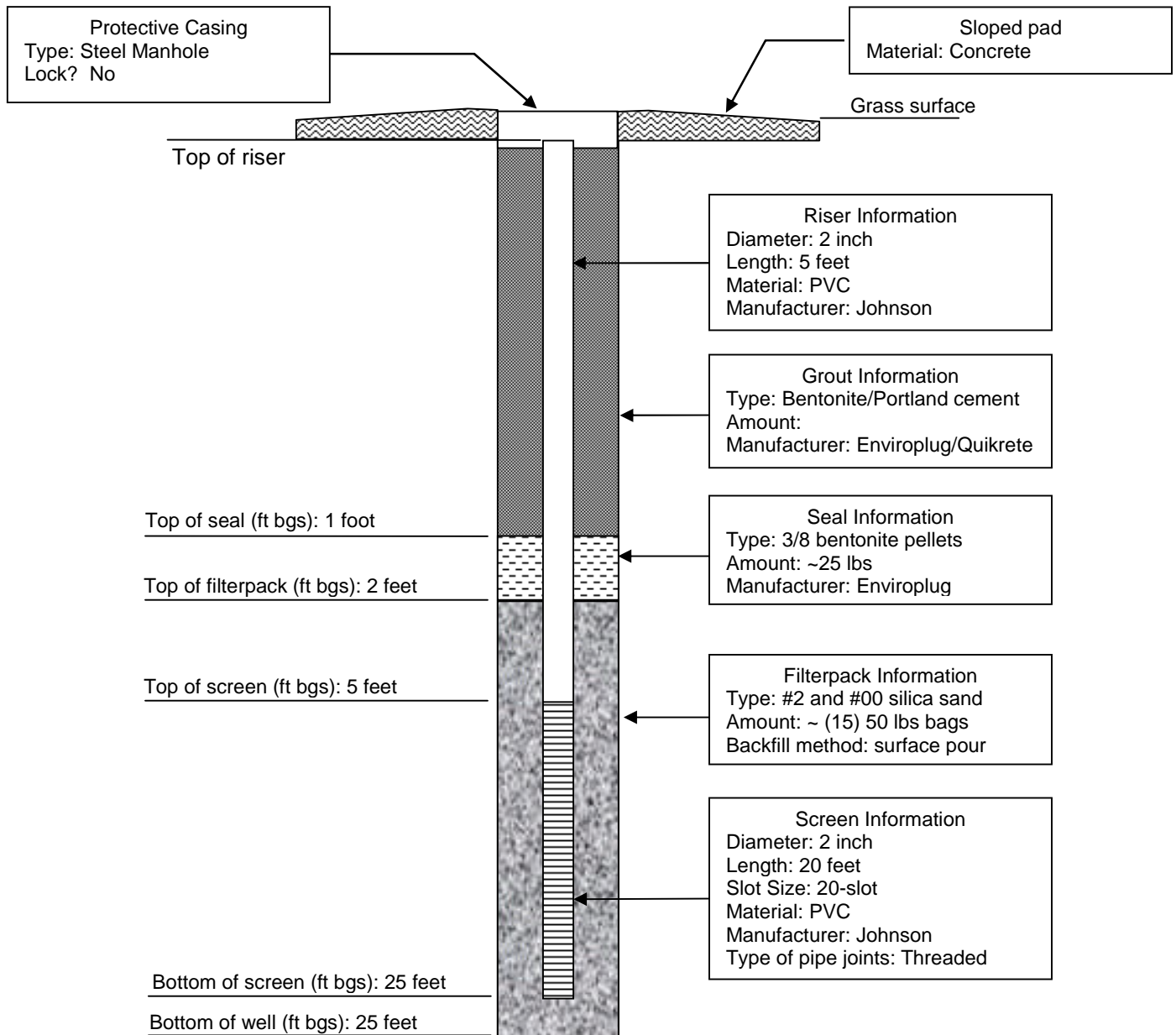
Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface

# RECORD OF MONITORING WELL CONSTRUCTION

## (FLUSH MOUNT)

 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <div style="text-align: center; font-size: 1.2em;"><b>MW-10</b></div>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 7/2/10 1020 Time Finished: 1050
Location: Rockville, MD	Depth to Water: 8 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA




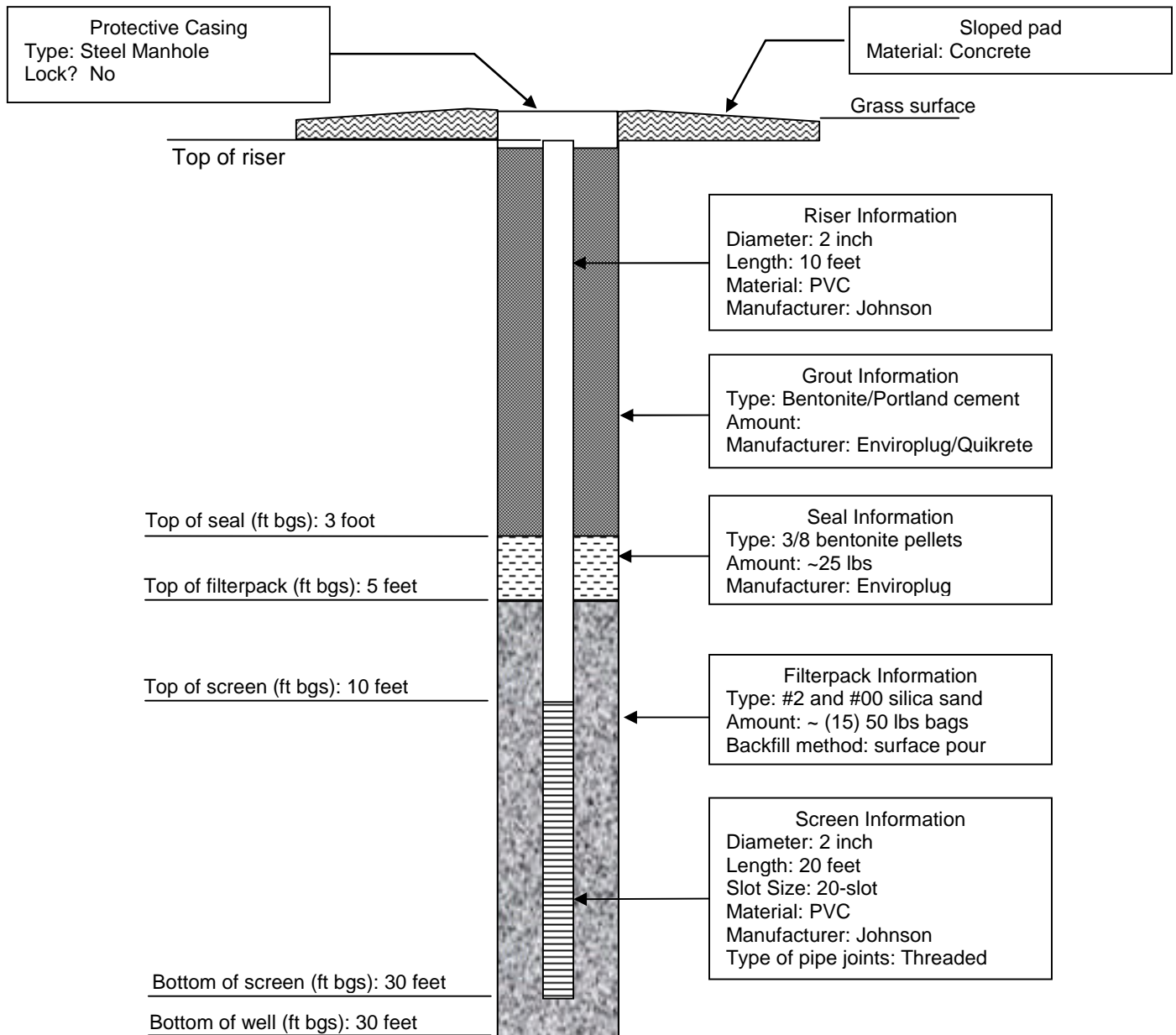
Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface

# RECORD OF MONITORING WELL CONSTRUCTION

## (FLUSH MOUNT)

 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <h3 style="text-align: center;">MW-11A</h3>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 6/30/10 0900 Time Finished: 1020
Location: Rockville, MD	Depth to Water: 15 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA




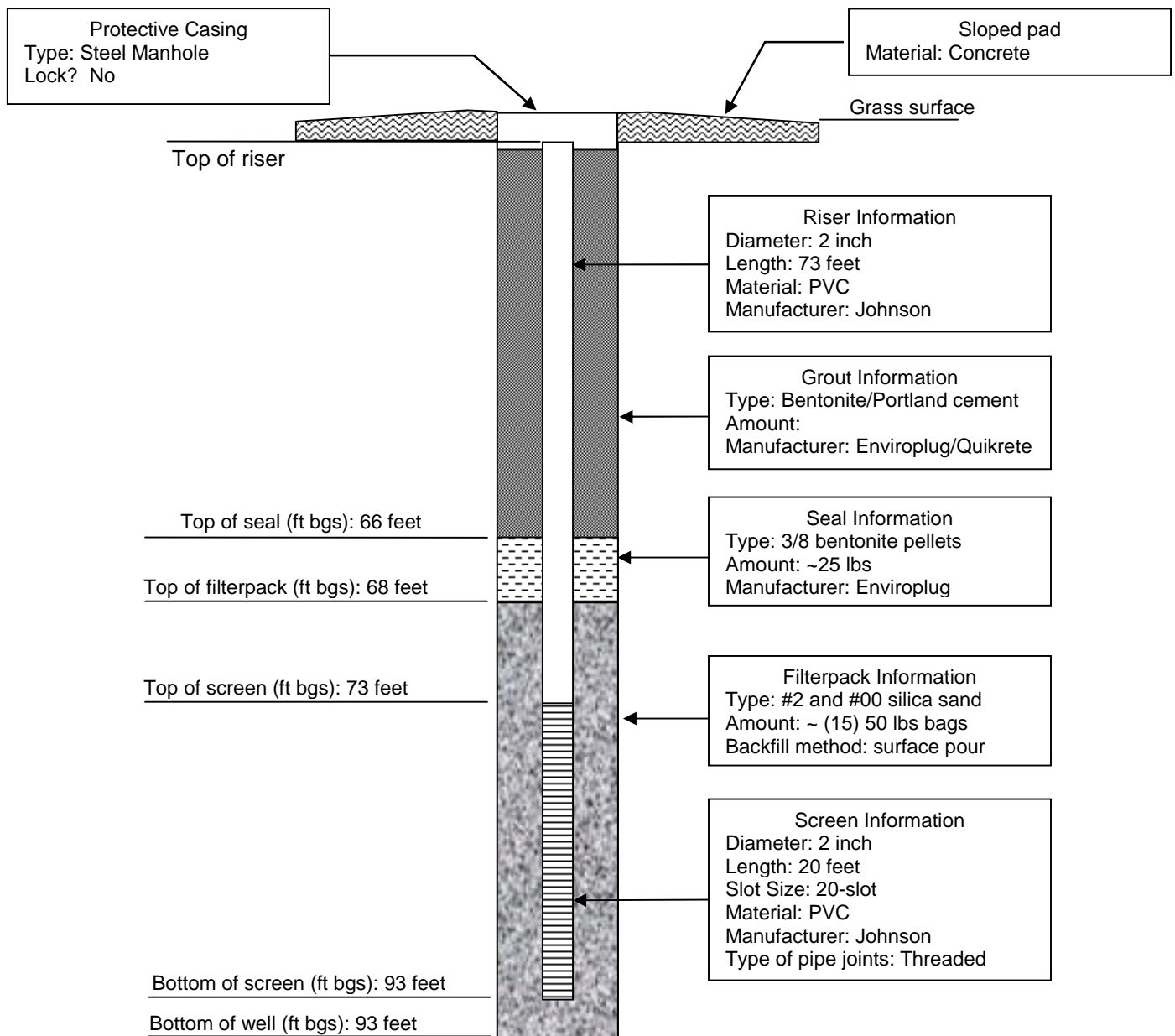
Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface

# RECORD OF MONITORING WELL CONSTRUCTION

## (FLUSH MOUNT)

 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <h3 style="text-align: center;">MW-11B</h3>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 6/30/10 1432 Time Finished: 1608
Location: Rockville, MD	Depth to Water: 17 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA and Air Rotary




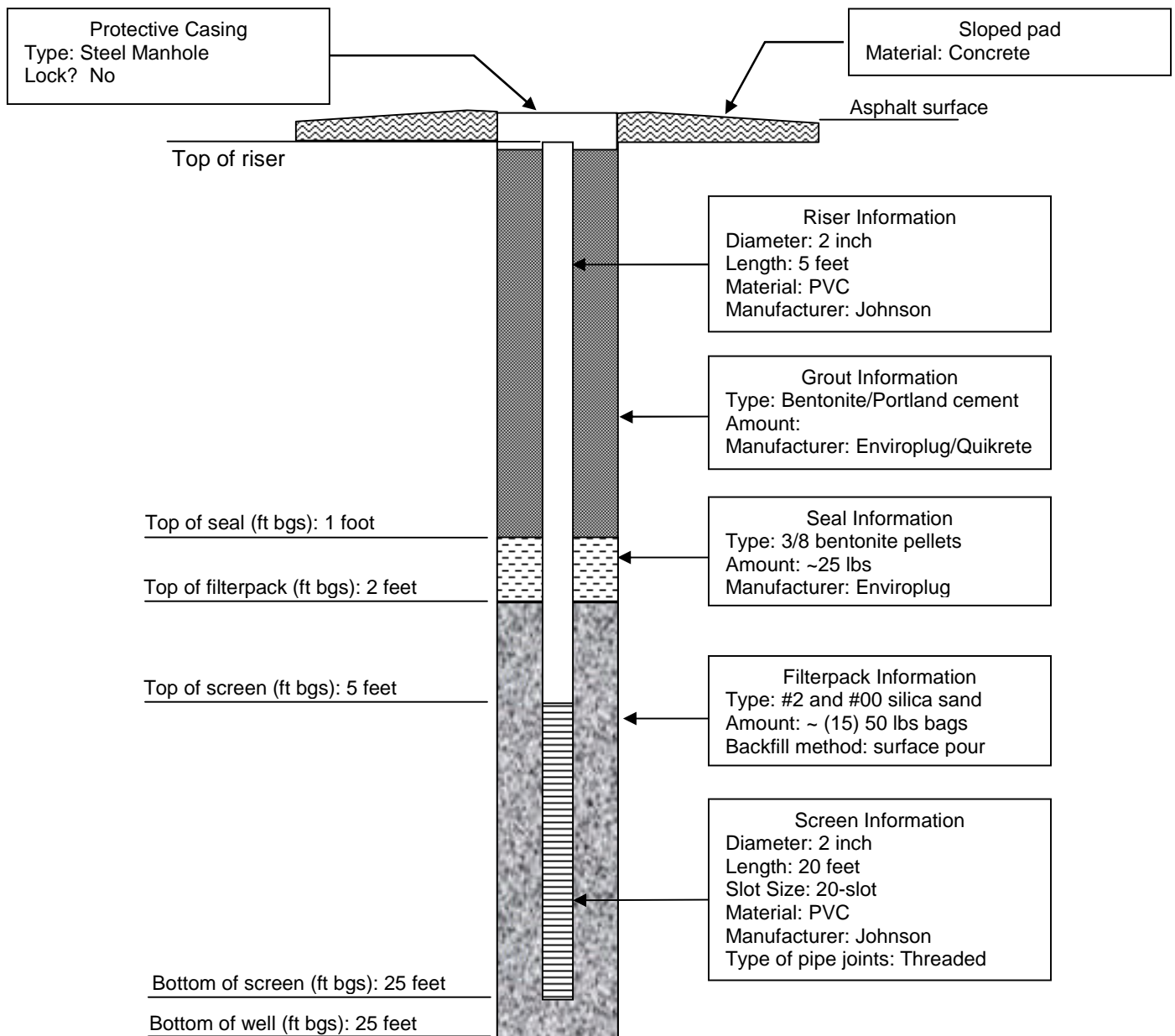
Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface

# RECORD OF MONITORING WELL CONSTRUCTION

## (FLUSH MOUNT)


 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <h3 style="text-align: center;">MW-12</h3>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 7/6/10 1205 Time Finished: 1227
Location: Rockville, MD	Depth to Water: 10 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA

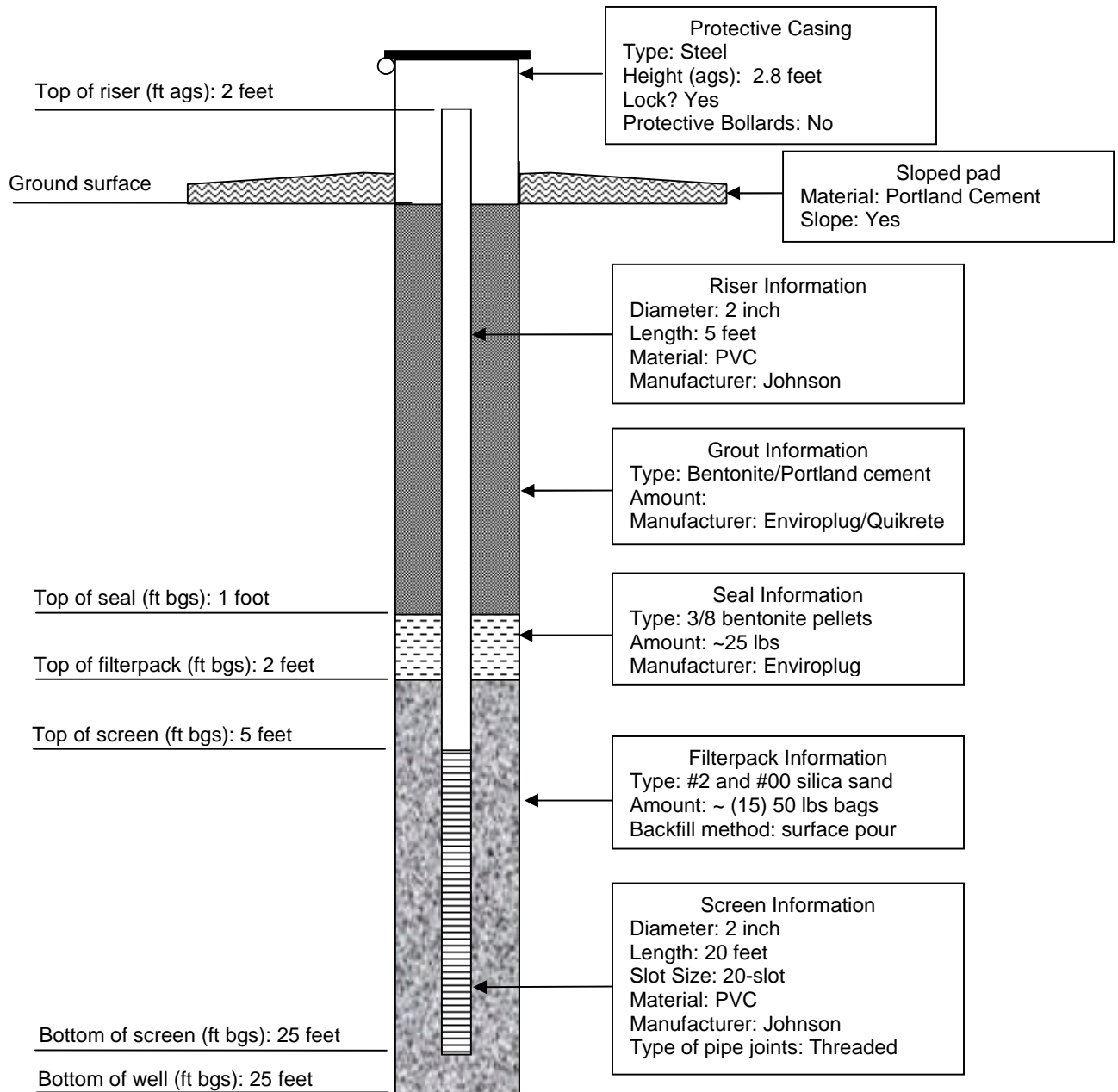


Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface

# RECORD OF MONITORING WELL CONSTRUCTION (STICK-UP)


 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <h2 style="text-align: center;">MW-13A</h2>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 6/25/10 1049 Time Finished: 1142
Location: Rockville, MD	Depth to Water: 5 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA

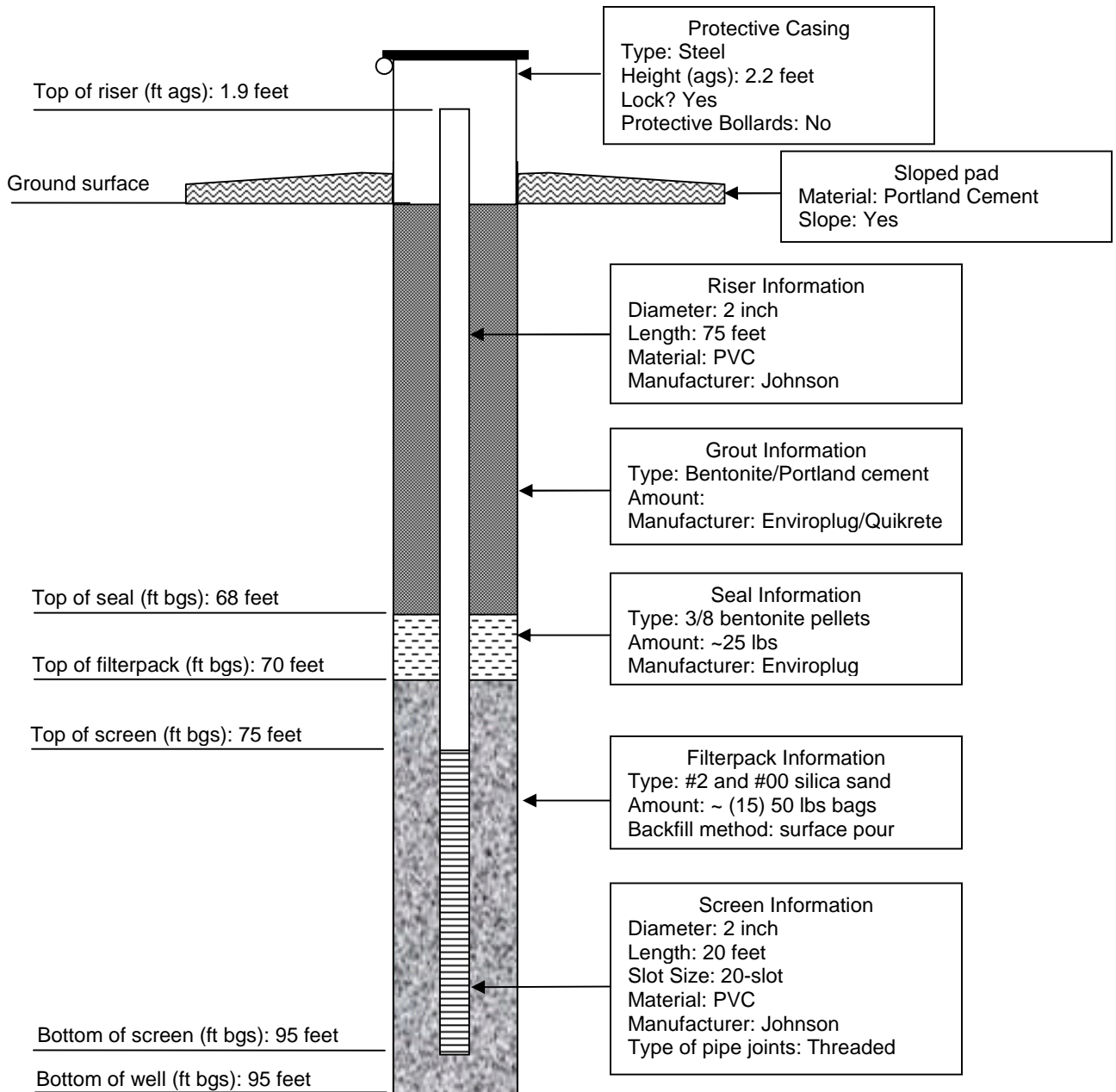


Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface

# RECORD OF MONITORING WELL CONSTRUCTION (STICK-UP)

 <b>EA Engineering, Science, and Technology, Inc.</b>	Monitoring Well/Soil Boring ID No.:  <h2 style="text-align: center;">MW-13B</h2>
Project Title/ Project No.: Gude Landfill 62196.08	Date/Time Installed: 6/29/10 1000 Time Finished: 1156
Location: Rockville, MD	Depth to Water: 7 feet bgs
Site Geologist: Joseph Sawicki	Drilling Method: HSA and Air Rotary



Note: All features not to scale

ags – Above Ground Surface  
bgs – Below Ground Surface



C1 3221  
SEQUENCE NO. (MDE USE ONLY)STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.COUNTY  
NUMBER 537530

## ST/CO USE ONLY

DATE Received  
MM DD YY

8 13

## DATE WELL COMPLETED

MM DD YY

15 20

## Depth of Well

22 26  
(TO NEAREST FOOT)PERMIT NO.  
FROM "PERMIT TO DRILL WELL"MO - 95 - 1145  
28 29 30 31 32 33 34 35 36 37OWNER Carde Dand Jr  
STREET OR RFD 600 E. Carde Drive TOWN Rockville  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

## WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARINGDESCRIPTION (Use  
additional sheets if needed)

## FEET

FROM TO

check  
if water  
bearing

## GROUTING RECORD

yes no

WELL HAS BEEN GROUTED

(Circle Appropriate Box)

Y N  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CMBENTONITE CLAY BCNO. OF BAGS 45 46NO. OF POUNDS 45 46

GALLONS OF WATER \_\_\_\_\_

DEPTH OF GROUT SEAL (to nearest foot)

from 48 TOP 52 ft. to 54 BOTTOM 58 ft.  
(enter 0 if from surface)

## CASING RECORD

casing  
types  
insert  
appropriate  
code  
belowST  
STEELCO  
CONCRETEPL  
PLASTICOT  
OTHERMAIN  
CASING  
TYPENominal diameter  
top (main) casing  
(nearest inch)Total depth  
of main casing  
(nearest foot)

60 61 63 64 66 70

## OTHER CASING (if used)

diameter

depth (feet)

inch from to

E A C H C A S I N G

screen type  
or open hole  
insert  
appropriate  
code  
below

## SCREEN RECORD

ST  
STEELBR  
BRASSHO  
OPEN HOLEPL  
BRONZEOT  
HOLEPL  
PLASTICOT  
OTHER

C 2

## DEPTH (nearest ft.)

1 2

E 1 8 9 11 15 17 21

A 2 23 24 26 30 32 36

C 3 38 39 41 45 47 51

S R E E

N SLOT SIZE 1 \_\_\_\_\_ 2 \_\_\_\_\_ 3 \_\_\_\_\_

DIAMETER OF SCREEN \_\_\_\_\_ (NEAREST INCH)

56 60

from to

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 72 74 75 76

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

## PUMPING TEST

HOURS PUMPED (nearest hour) 8 9PUMPING RATE (gal. per min.) 11 15

METHOD USED TO MEASURE PUMPING RATE \_\_\_\_\_

WATER LEVEL (distance from land surface)

BEFORE PUMPING 17 20 ft.WHEN PUMPING 22 25 ft.

TYPE OF PUMP USED (for test)

A air

P piston

T turbine

C centrifugal

R rotary

O other (describe below)

J jet

S submersible

## PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO  
(CIRCLE) (YES or NO)IF DRILLER INSTALLS PUMP, THIS SECTION  
MUST BE COMPLETED FOR ALL WELLS.TYPE OF PUMP INSTALLED  
PLACE (A,C,J,P,R,S,T,O)  
IN BOX 29.CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon) 31 35PUMP HORSE POWER 37 41PUMP COLUMN LENGTH  
(nearest ft.) 43 47CASING HEIGHT (circle appropriate box  
and enter casing height)

+ above

LAND SURFACE

- below

(nearest foot)

49 50 51

## LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS  
BUILDING, SEPTIC TANKS, AND /OR  
LANDMARKS AND INDICATE NOT LESS  
THAN TWO DISTANCES  
(MEASUREMENTS TO WELL)

NUMBER OF UNSUCCESSFUL WELLS: \_\_\_\_\_

WELL HYDROFRACTURED

yes

no

Y

N

## CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED  
WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

P TEST WELL CONVERTED TO PRODUCTION  
WELLI HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN  
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND  
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE  
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED  
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE.

DRILLERS LIC. NO. 1 M D

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D

SITE SUPERVISOR (sign. of driller or journeyman  
responsible for sitework if different from permittee)



C1 3222

SEQUENCE NO.  
(MDE USE ONLY)STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.1 2 3 6  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)COUNTY  
NUMBER NO 537530

ST/CO USE ONLY

DATE Received  
MM DD YY

8 13

DATE WELL COMPLETED

MM DD YY  
6 4 10

Depth of Well

22 90 26  
(TO NEAREST FOOT)PERMIT NO.  
FROM "PERMIT TO DRILL WELL"M. - 95-1146  
28 29 30 31 32 33 34 35 36 37OWNER Grade 1 road first name  
STREET OR RFD 600 E. Grade Dr. TOWN Rockville MD  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

## WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARINGDESCRIPTION (Use  
additional sheets if needed)FEET  
FROM TOcheck  
if water  
bearingBrown Dry  
FSS0 40  
40 98

lock

## GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)yes no  
☒ Y ☐ N  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT ☒ CMBENTONITE CLAY ☐ BCNO. OF BAGS 6 NO. OF POUNDS 42GALLONS OF WATER 42

DEPTH OF GROUT SEAL (to nearest foot)

from 0 TOP 52 ft. to 98 BOTTOM 58 ft.  
(enter 0 if from surface)

## CASING RECORD

casing  
types  
insert  
appropriate  
code  
below☒ ST  
STEEL☐ CO  
CONCRETE☒ PL  
PLASTIC☐ OT  
OTHERMAIN  
CASING  
TYPENominal diameter  
top (main) casing  
(nearest inch)Total depth  
of main casing  
(nearest foot)PL  
60 612  
63 6498  
66 70E  
A  
C  
H  
C  
A  
S  
I  
N  
G

OTHER CASING (if used)

diameter depth (feet)  
inch from toscreen type  
or open holeinsert  
appropriate  
code  
below

## SCREEN RECORD

☒ ST  
STEEL☐ BR  
BRASS☐ HO  
OPEN  
HOLE☒ PL  
BRONZE☐ PL  
PLASTIC☐ OT  
OTHERNUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED

yes

no

☒ Y☐ N

CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED  
WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

P TEST WELL CONVERTED TO PRODUCTION  
WELLI HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN  
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND  
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE  
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED  
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE.DRILLERS LIC. NO. M 6D 063

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 76D 966SITE SUPERVISOR (sign. of driller or journeyman  
responsible for sitework if different from permittee)

## C 2 DEPTH (nearest ft.)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

E 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21  
A 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100S 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
C 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
R 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
E 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
E 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100SLOT SIZE 1 0 2 1 3 0DIAMETER OF SCREEN 2 (NEAREST INCH)  
56 60from 70 to 98GRAVEL PACK IF WELL DRILLED  
WAS FLOWING WELL  
INSERT F IN BOX 68MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 72 74 75 76  
TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

## PUMPING TEST

HOURS PUMPED (nearest hour) 8 9PUMPING RATE (gal. per min.) 11 15METHOD USED TO  
MEASURE PUMPING RATE \_\_\_\_\_

WATER LEVEL (distance from land surface)

BEFORE PUMPING 17 20 ft.WHEN PUMPING 22 25 ft.

TYPE OF PUMP USED (for test)

A air P piston T turbine

C centrifugal R rotary O other  
(describe below)

J jet S submersible

## PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO  
(CIRCLE) (YES or NO)IF DRILLER INSTALLS PUMP, THIS SECTION  
MUST BE COMPLETED FOR ALL WELLS.TYPE OF PUMP INSTALLED  
PLACE (A,C,J,P,R,S,T,O)  
IN BOX 29.CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon) 31 35PUMP HORSE POWER 37 41PUMP COLUMN LENGTH  
(nearest ft.) 43 47CASING HEIGHT (circle appropriate box  
and enter casing height)☒ + above LAND SURFACE☐ - below 12 (nearest foot)

49 50 51

## LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS  
BUILDING, SEPTIC TANKS, AND /OR  
LANDMARKS AND INDICATE NOT LESS  
THAN TWO DISTANCES  
(MEASUREMENTS TO WELL)

C13219

SEQUENCE NO.  
(MDE USE ONLY)

STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.

COUNTY  
NUMBER

537530

1236  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY  
DATE Received  
MM DD YY  
8 13

DATE WELL COMPLETED  
MM DD YY  
6 9 10

Depth of Well  
22 75 26  
(TO NEAREST FOOT)

PERMIT NO.  
FROM "PERMIT TO DRILL WELL"  
MD-95-1137

OWNER Grade Landfill  
STREET OR RFD 600 E Grade Drive  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

WELL LOG  
Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Washed fill	0	35	
F.S. 1000			
Weathered	35	75	
rock			

GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT ☒ BENTONITE CLAY ☐

NO. OF BAGS 6 NO. OF POUNDS 4500

GALLONS OF WATER 42

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 49 ft.

(enter 0 if from surface)

CASING RECORD

casing  
types  
insert  
appropriate  
code  
below

☒ ST STEEL ☐ CO CONCRETE  
☒ PL PLASTIC ☐ OT OTHER

MAIN CASING TYPE

Nominal diameter top (main) casing (nearest inch) 2

Total depth of main casing (nearest foot) 55

OTHER CASING (if used)

diameter depth (feet)

inch from to

SCREEN RECORD

screen type or open hole

(insert appropriate code below)

☒ ST STEEL ☐ BR BRASS ☐ HO OPEN HOLE  
☒ PL PLASTIC ☐ OT OTHER

C3

PUMPING TEST

HOURS PUMPED (nearest hour) 8 9

PUMPING RATE (gal. per min.) 11 15

METHOD USED TO MEASURE PUMPING RATE \_\_\_\_\_

WATER LEVEL (distance from land surface)

BEFORE PUMPING 17 20 ft.

WHEN PUMPING 22 25 ft.

TYPE OF PUMP USED (for test)

☒ A air ☐ P piston ☐ T turbine  
☒ C centrifugal ☐ R rotary ☐ O other (describe below)  
☐ J jet ☐ S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED

PLACE (A,C,J,P,R,S,T,O) IN BOX 29. 29

CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height)

☒ above 49

☐ below 12 (nearest foot)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED ☒ YES ☐ NO

CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. M 6D 063

DRILLERS SIGNATURE [Signature]

LIC. NO. 36 D 064

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

C2

DEPTH (nearest ft.)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

SLOT SIZE 1 0 2 2 3 0

DIAMETER OF SCREEN 2 (NEAREST INCH)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 50 75

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 72 74 75 76

TELESCOPE CASING LOG INDICATOR OTHER DATA

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

300 1100

500 200

C1 3220

SEQUENCE NO.  
(MDE USE ONLY)STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.COUNTY  
NUMBER

537520

1 2 3 6  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)

## ST/CO USE ONLY

DATE Received

MM DD YY  
8 13

## DATE WELL COMPLETED

MM DD YY  
6 17 2010

## Depth of Well

22 108 26  
(TO NEAREST FOOT)PERMIT NO.  
FROM "PERMIT TO DRILL WELL"MD-95-1138  
28 29 30 31 32 33 34 35 36 37OWNER Grado Landfill  
STREET OR RFD 600 E Grado Drive TOWN Rockville  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

## WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARINGDESCRIPTION (Use  
additional sheets if needed)

## FEET

FROM

TO

check  
if water  
bearing

Drill A Dry  
Sand Silty  
watered  
rock  
Hard rock

0 35  
35 69  
69 109

## GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)yes no  
☒ Y ☐ N  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT ☒ CM BENTONITE CLAY ☐ BCNO. OF BAGS 12 NO. OF POUNDS 260GALLONS OF WATER 84

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 80 ft.  
48 TOP 52 54 BOTTOM 58 ft.  
(enter 0 if from surface)

## CASING RECORD

casing  
types  
insert  
appropriate  
code  
below☒ ST  
STEEL☐ CO  
CONCRETE☒ PL  
PLASTIC☐ OT  
OTHERMAIN  
CASING  
TYPENominal diameter  
top (main) casing  
(nearest inch)Total depth  
of main casing  
(nearest foot)P2  
60 612  
63 6489  
66 70

## OTHER CASING (if used)

E  
C  
H  
A  
S  
I  
N  
G  
diameter depth (feet)  
inch from toscreen type  
or open hole

## SCREEN RECORD

(insert  
appropriate  
code  
below)☒ ST  
STEEL☐ BR  
BRASS☐ HO  
OPEN  
HOLE☒ PL  
BRONZE  
PLASTIC☐ OT  
OTHERNUMBER OF UNSUCCESSFUL WELLS: 4

WELL HYDROFRACTURED

yes

☒ Y

no

☐ N

## CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED  
WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

P TEST WELL CONVERTED TO PRODUCTION  
WELLI HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN  
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND  
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE  
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED  
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE.DRILLERS LIC. NO. 1 M BD 263

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 360066SITE SUPERVISOR (sign. of driller or journeyman  
responsible for sitework if different from permittee)GRAVEL PACK  
IF WELL DRILLED  
WAS FLOWING WELL  
INSERT F IN BOX 68MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)

T

(E.R.O.S.)

W Q

70  
TELESCOPE  
CASING

72

LOG  
INDICATOR74 75 76  
OTHER DATA

C 3

## PUMPING TEST

HOURS PUMPED (nearest hour)

8 9

PUMPING RATE (gal. per min.)

11 15

METHOD USED TO  
MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING

17 20 ft.

WHEN PUMPING

22 25 ft.

TYPE OF PUMP USED (for test)

☒ A air☐ P piston☐ T turbine☐ C centrifugal☐ R rotary☐ O other  
(describe below)☐ J jet☐ S submersible

## PUMP INSTALLED

DRILLER INSTALLED PUMP  
(CIRCLE) (YES or NO)

YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION  
MUST BE COMPLETED FOR ALL WELLS.TYPE OF PUMP INSTALLED  
PLACE (A,C,J,P,R,S,T,O)  
IN BOX 29.

29

CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon)

31 35

PUMP HORSE POWER

37 41

PUMP COLUMN LENGTH  
(nearest ft.)

43 47

CASING HEIGHT (circle appropriate box  
and enter casing height)☒ + above

LAND SURFACE

☐ - below12 (nearest  
foot)

## LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS  
BUILDING, SEPTIC TANKS, AND /OR  
LANDMARKS AND INDICATE NOT LESS  
THAN TWO DISTANCES  
(MEASUREMENTS TO WELL)

C1 3224

SEQUENCE NO.  
(MDE USE ONLY)STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.COUNTY  
NUMBER

537530

1 2 3 6  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY

DATE Received

MM DD YY

8 13

DATE WELL COMPLETED

MM DD YY  
15 10 10

Depth of Well

22 25 26  
(TO NEAREST FOOT)PERMIT NO.  
FROM "PERMIT TO DRILL WELL"MC-95-1140  
28 29 30 31 32 33 34 35 36 37OWNER Grade 1st fl  
STREET OR RFD 600 E Grade Drive TOWN Rockville  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

## WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARINGDESCRIPTION (Use  
additional sheets if needed)

FEET

FROM TO

check  
if water  
bearingPneumatically  
set  
FTC sand  
Tilt

## GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)yes no  
Y N  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CMBENTONITE CLAY BCNO. OF BAGS 1 NO. OF POUNDS 45GALLONS OF WATER 7

DEPTH OF GROUT SEAL (to nearest foot)

from 0 TOP 52 ft. to 2 BOTTOM 58 ft.  
(enter 0 if from surface)

## CASING RECORD

casing  
types  
insert  
appropriate  
code  
belowST  
STEELCO  
CONCRETEPL  
PLASTICOT  
OTHERMAIN  
CASING  
TYPENominal diameter  
top (main) casing  
(nearest inch)Total depth  
of main casing  
(nearest foot)PL25E  
A  
C  
H  
C  
A  
S  
I  
N  
G

OTHER CASING (if used)

diameter

depth (feet)

inch

from to

screen type  
or open hole

SCREEN RECORD

ST  
STEELBR  
BRASSHO  
OPEN  
HOLEPL  
BRONZEPL  
PLASTICOT  
OTHERinsert  
appropriate  
code  
below

C 2

DEPTH (nearest ft.)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51

SLOT SIZE 1 0 2 1 3 0DIAMETER  
OF SCREEN 2 (NEAREST  
INCH)

56 60

from to

GRAVEL PACK  
IF WELL DRILLED  
WAS FLOWING WELL  
INSERT F IN BOX 68MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 72 74 75 76  
TELESCOPE LOG OTHER DATA  
CASING INDICATOR

C 3

## PUMPING TEST

HOURS PUMPED (nearest hour)

8 9

PUMPING RATE (gal. per min.)

11 15

METHOD USED TO  
MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING

17 20 ft.

WHEN PUMPING

22 25 ft.

TYPE OF PUMP USED (for test)

A air

P piston

T turbine

C centrifugal

R rotary

O other  
(describe  
below)

J jet

S submersible

## PUMP INSTALLED

DRILLER INSTALLED PUMP  
(CIRCLE) (YES or NO)

YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION  
MUST BE COMPLETED FOR ALL WELLS.TYPE OF PUMP INSTALLED  
PLACE (A,C,J,P,R,S,T,O)  
IN BOX 29.CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon)

31 35

PUMP HORSE POWER

37 41

PUMP COLUMN LENGTH  
(nearest ft.)

43 47

CASING HEIGHT (circle appropriate box  
and enter casing height)

+ above

LAND SURFACE

- below

12 (nearest  
foot)

## LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS  
BUILDING, SEPTIC TANKS, AND /OR  
LANDMARKS AND INDICATE NOT LESS  
THAN TWO DISTANCES  
(MEASUREMENTS TO WELL)NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED

yes

no

Y N

CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED  
WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

P TEST WELL CONVERTED TO PRODUCTION  
WELLI HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN  
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND  
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE  
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED  
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE.DRILLERS LIC. NO. M 6D 063

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 36D966SITE SUPERVISOR (sign. of driller or journeyman  
responsible for sitework if different from permittee)

C1 3223  
SEQUENCE NO. (MDE USE ONLY)STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.COUNTY  
NUMBER 5375301 2 3 6  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)

ST/GO USE ONLY

DATE Received

MM DD YY  
8 13

DATE WELL COMPLETED

MM DD YY  
10 22 10

Depth of Well

22 96 26  
(TO NEAREST FOOT)

PERMIT NO.

FROM "PERMIT TO DRILL WELL"

MD - 95-1139  
28 29 30 31 32 33 34 35 36 37OWNER Grade & Anna Hill  
STREET OR RFD 600 E Grade TOWN Rockville MD  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

## WELL LOG

Not required for driven wells

## GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)YES ☒ NO ☐  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT ☒ BENTONITE CLAY ☒  
45 46 45 46NO. OF BAGS 6 NO. OF POUNDS 600GALLONS OF WATER 42

DEPTH OF GROUT SEAL (to nearest foot)

from 0 TOP 52 ft. to 100 BOTTOM 58 ft.  
(enter 0 if from surface)

## CASING RECORD

casing  
types  
insert  
appropriate  
code  
below  
☒ STEEL ☒ CONCRETE  
☒ PLASTIC ☒ OTHERMAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch) 2 Total depth of main casing (nearest foot) 76  
60 61 63 64 66 70OTHER CASING (if used)  
EACH CASING diameter depth (feet)  
inch from toscreen type or open hole  
insert appropriate code below  
☒ STEEL ☒ BRASS ☒ OPEN HOLE  
☒ PLASTIC ☒ OTHER

C 2 DEPTH (nearest ft.)

E 1 8 9 11 15 17 21  
A 2 23 24 26 30 32 36  
C 3  
R 38 39 41 45 47 51  
E  
E  
N  
SLOT SIZE 1 0 2 2 3 0DIAMETER OF SCREEN 2 (NEAREST INCH)  
56 60  
from toGRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 70 96  
68MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)  
T (E.R.O.S.) W Q70 72 74 75 76  
TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

## PUMPING TEST

HOURS PUMPED (nearest hour) 8 9PUMPING RATE (gal. per min.) 11 15

METHOD USED TO MEASURE PUMPING RATE \_\_\_\_\_

WATER LEVEL (distance from land surface)

BEFORE PUMPING 17 20 ft.WHEN PUMPING 22 25 ft.

TYPE OF PUMP USED (for test)

A air P piston T turbine  
27 27 27  
C centrifugal R rotary O other (describe below)  
27 27 27  
J jet S submersible  
27 27

## PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO  
(CIRCLE) (YES or NO)

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 29CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35PUMP HORSE POWER 37 41PUMP COLUMN LENGTH (nearest ft.) 43 47CASING HEIGHT (circle appropriate box and enter casing height)  
☒ above } LAND SURFACE  
☐ below } 12 (nearest foot)  
49 50 51LOCATION OF WELL ON LOT  
SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)NUMBER OF UNSUCCESSFUL WELLS: 0WELL HYDROFRACTURED ☒ YES ☐ NO

## CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED  
E ELECTRIC LOG OBTAINED  
P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. 1 M 6D 263

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 56D 966

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

C1 3226

SEQUENCE NO.  
(MDE USE ONLY)STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.COUNTY  
NUMBER

537537

1 2 3 6  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY

DATE Received

MM DD YY  
8 13

DATE WELL COMPLETED

MM DD YY  
7 6 10

Depth of Well

22 24 26  
(TO NEAREST FOOT)PERMIT NO.  
FROM "PERMIT TO DRILL WELL"MO - 95 - 1151  
28 29 30 31 32 33 34 35 36 37OWNER Grade Landfill first name Grade last name Landfill  
STREET OR RFD 600 TOWN Rockville  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

## WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARINGDESCRIPTION (Use  
additional sheets if needed)FEET  
FROM TOcheck  
if water  
bearing

Grand  
not  
f 100'

0 25'

## GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)yes no  
☒ ☐  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT ☒ BENTONITE CLAY ☒NO. OF BAGS 1 NO. OF POUNDS 32GALLONS OF WATER 7

DEPTH OF GROUT SEAL (to nearest foot)

from 48 TOP 52 ft. to 54 BOTTOM 58 ft.  
(enter 0 if from surface)

## CASING RECORD

casing  
types  
insert  
appropriate  
code  
below☒ ☐  
STEEL CONCRETE☒ ☐  
PLASTIC OTHERMAIN  
CASING  
TYPENominal diameter  
top (main) casing  
(nearest inch)Total depth  
of main casing  
(nearest foot)PL 2 5  
60 61 63 64 66 70E  
A  
C  
H  
C  
A  
S  
I  
N  
G

OTHER CASING (if used)

diameter depth (feet)  
inch from toscreen type  
or open hole  
(insert  
appropriate  
code  
below)

## SCREEN RECORD

☒ ☐ ☐  
STEEL BRASS OPEN☒ ☐ ☐  
BRONZE HOLE☒ ☐ ☐  
PLASTIC OTHER

C 2

DEPTH (nearest ft.)

PL 5 25  
8 9 11 15 17 21E A C H S C R E E N  
23 24 26 30 32 36

38 39 41 45 47 51

SLOT SIZE 1 0.2 2 3 0DIAMETER OF SCREEN 2 (NEAREST INCH)

from to

2 25  
56 60 68GRAVEL PACK  
IF WELL DRILLED  
WAS FLOWING WELL  
INSERT F IN BOX 68MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 72 74 75 76  
TELESCOPE LOG OTHER DATA  
CASING INDICATOR

C 3

## PUMPING TEST

HOURS PUMPED (nearest hour)

8 9

PUMPING RATE (gal. per min.)

11 15

METHOD USED TO  
MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING 17 20 ft.

WHEN PUMPING 22 25 ft.

TYPE OF PUMP USED (for test)

☒ air ☐ piston ☐ turbine  
☒ centrifugal ☐ rotary ☐ other  
☐ jet ☐ submersible  
(describe below)

## PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO  
(CIRCLE) (YES or NO)IF DRILLER INSTALLS PUMP, THIS SECTION  
MUST BE COMPLETED FOR ALL WELLS.TYPE OF PUMP INSTALLED  
PLACE (A,C,J,P,R,S,T,O)  
IN BOX 29.CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH  
(nearest ft.) 43 47CASING HEIGHT (circle appropriate box  
and enter casing height)☒ above } LAND SURFACE  
☐ below } (nearest foot)  
49 50 51

## LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS  
BUILDING, SEPTIC TANKS, AND /OR  
LANDMARKS AND INDICATE NOT LESS  
THAN TWO DISTANCES  
(MEASUREMENTS TO WELL)NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED

yes no  
☒ ☐

## CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED  
WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

P TEST WELL CONVERTED TO PRODUCTION  
WELLI HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN  
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND  
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE  
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED  
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE.DRILLERS LIC. NO. M 6D 063

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 56D 666SITE SUPERVISOR (sign. of driller or journeyman  
responsible for sitework if different from permittee)



<b>C 1</b> <span style="font-size: 24pt; font-weight: bold;">3211</span>		SEQUENCE NO. (MDE USE ONLY)		<b>STATE OF MARYLAND</b> <b>WELL COMPLETION REPORT</b> FILL IN THIS FORM COMPLETELY PLEASE TYPE		THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.	
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)						COUNTY NUMBER <span style="font-size: 24pt; font-weight: bold;">537155</span>	
ST/CO USE ONLY DATE Received MM DD YY 8 13		DATE WELL COMPLETED MM DD YY 6 22 10		Depth of Well 22 25 26 (TO NEAREST FOOT)		PERMIT NO. FROM "PERMIT TO DRILL WELL" <span style="font-size: 24pt; font-weight: bold;">MO-95-1149</span> 28 29 30 31 32 33 34 35 36 37	
OWNER <span style="font-size: 24pt; font-weight: bold;">GUYDE LANDFILL</span> STREET OR RFD <span style="font-size: 24pt; font-weight: bold;">600 E. GUYDE DRIVE</span> TOWN <span style="font-size: 24pt; font-weight: bold;">ROCKVILLE</span> SUBDIVISION _____ SECTION _____ LOT _____							
<b>WELL LOG</b> Not required for driven wells			<b>GROUTING RECORD</b>			<b>C 3</b>	
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING  DESCRIPTION (Use additional sheets if needed)  <div style="font-size: 24pt; font-weight: bold;">FILL</div>			WELL HAS BEEN GROUTED (Circle Appropriate Box) <div style="display: flex; justify-content: space-around;"><div>yes <input checked="" type="checkbox"/> Y</div><div>no <input type="checkbox"/> N</div></div>			<b>PUMPING TEST</b>  HOURS PUMPED (nearest hour) _____ PUMPING RATE (gal. per min.) _____ METHOD USED TO MEASURE PUMPING RATE _____  WATER LEVEL (distance from land surface) BEFORE PUMPING _____ ft. WHEN PUMPING _____ ft.  TYPE OF PUMP USED (for test) <div style="display: flex; justify-content: space-around;"><div>A air</div><div>P piston</div><div>T turbine</div></div> <div style="display: flex; justify-content: space-around;"><div>C centrifugal</div><div>R rotary</div><div>O other (describe below)</div></div> <div style="display: flex; justify-content: space-around;"><div>J jet</div><div>S submersible</div></div>	
			TYPE OF GROUTING MATERIAL (Circle one) CEMENT <input checked="" type="checkbox"/> CM BENTONITE CLAY <input checked="" type="checkbox"/> BC NO. OF BAGS _____ NO. OF POUNDS _____ GALLONS OF WATER _____ DEPTH OF GROUT SEAL (to nearest foot) from _____ ft. to _____ ft. (enter 0 if from surface)				
FEET FROM TO  0 3			<b>CASING RECORD</b>			<b>PUMP INSTALLED</b> DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO)  IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.  TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29.  CAPACITY: GALLONS PER MINUTE (to nearest gallon) _____  PUMP HORSE POWER _____  PUMP COLUMN LENGTH (nearest ft.) _____  CASING HEIGHT (circle appropriate box and enter casing height) <div style="display: flex; justify-content: space-around;"><div><input checked="" type="checkbox"/> + above</div><div><input type="checkbox"/> - below</div></div> <div style="text-align: right;">LAND SURFACE (nearest foot)</div>	
			casing types insert appropriate code below <div style="display: flex; justify-content: space-around;"><div>STEEL <input checked="" type="checkbox"/> ST</div><div>CONCRETE <input checked="" type="checkbox"/> CO</div></div> <div style="display: flex; justify-content: space-around;"><div>PLASTIC <input checked="" type="checkbox"/> PL</div><div>OTHER <input type="checkbox"/> OT</div></div> MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) _____ Total depth of main casing (nearest foot) _____ 60 61 63 64 66 70				
			<b>OTHER CASING (if used)</b>			<b>LOCATION OF WELL ON LOT</b> SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)  <div style="font-size: 24pt; font-weight: bold;">last</div>	
			EACH CASING diameter inch depth (feet) from to  _____				
NUMBER OF UNSUCCESSFUL WELLS: _____			<b>SCREEN RECORD</b>			<b>TELESCOPE CASING</b> GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68  MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q  70 72 74 75 76 LOG INDICATOR OTHER DATA	
			screen type or open hole insert appropriate code below <div style="display: flex; justify-content: space-around;"><div>STEEL <input checked="" type="checkbox"/> ST</div><div>BRASS <input checked="" type="checkbox"/> BR</div><div>OPEN HOLE <input checked="" type="checkbox"/> HO</div></div> <div style="display: flex; justify-content: space-around;"><div>BRONZE <input checked="" type="checkbox"/> PL</div><div>OTHER <input type="checkbox"/> OT</div></div>				
WELL HYDROFRACTURED <div style="display: flex; justify-content: space-around;"><div>yes <input checked="" type="checkbox"/> Y</div><div>no <input type="checkbox"/> N</div></div>			<b>C 2</b>				
CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL  I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED, HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.  DRILLERS LIC. NO. 1 M 6D 063  DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)  LIC. NO. 1 36D 066  SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)			DEPTH (nearest ft.) 1 2 8 9 11 15 17 21 23 24 26 30 32 36 38 39 41 45 47 51 SLOT SIZE 1 2 3 DIAMETER OF SCREEN _____ (NEAREST INCH) 56 60 from to				

C1 3212

SEQUENCE NO.  
(MDE USE ONLY)STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.COUNTY  
NUMBER 5371551 2 3 6  
(THIS NUMBER IS TO BE PUNCHED  
IN COLUMNS 3-6 ON ALL CARDS)

ST/CO USE ONLY

DATE Received

MM DD YY  
8 13

DATE WELL COMPLETED

MM DD YY  
15 24 20

Depth of Well

22 53 26  
(TO NEAREST FOOT)PERMIT NO.  
FROM "PERMIT TO DRILL WELL"MO-95-1147  
28 29 30 31 32 33 34 35 36 37OWNER Grude Landfill  
STREET OR RFD 600 E. Grude Drive first name TOWN Rockville MD 20850  
SUBDIVISION SECTION LOT

## WELL LOG

Not required for driven wells

## GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)yes no  
Y N  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BCNO. OF BAGS 4 NO. OF POUNDS 20GALLONS OF WATER 20

DEPTH OF GROUT SEAL (to nearest foot)

from 0 TOP 52 ft. to 20 BOTTOM 58 ft.  
(enter 0 if from surface)

## CASING RECORD

casing  
types  
insert  
appropriate  
code  
belowST  
STEELCO  
CONCRETEPL  
PLASTICOT  
OTHERMAIN CASING TYPE  
PL Nominal diameter top (main) casing (nearest inch) 2 Total depth of main casing (nearest foot) 33OTHER CASING (if used)  
EACH CASING diameter inch depth (feet) from toscreen type or open hole  
insert appropriate code below  
ST BR HO  
STEEL BRASS OPEN HOLE  
PL PLASTIC OT OTHERC 2 DEPTH (nearest ft.)  
1 2  
E A C H S C R E E N  
1 8 9 11 15 17 21  
2 23 24 26 30 32 36  
3 38 39 41 45 47 51  
SLOT SIZE 1 0.2 2 2 3 0  
DIAMETER OF SCREEN 2 (NEAREST INCH)  
56 60  
from toGRAVEL PACK  
IF WELL DRILLED  
WAS FLOWING WELL  
INSERT F IN BOX 68MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)  
T (E.R.O.S.) W Q  
70 72 74 75 76  
TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

## PUMPING TEST

HOURS PUMPED (nearest hour) 8 9

PUMPING RATE (gal. per min.) 11 15

METHOD USED TO MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING 17 20 ft.

WHEN PUMPING 22 25 ft.

TYPE OF PUMP USED (for test)

A air P piston T turbine  
C centrifugal R rotary O other (describe below)  
J jet S submersible

## PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO  
(CIRCLE) (YES or NO)IF DRILLER INSTALLS PUMP, THIS SECTION  
MUST BE COMPLETED FOR ALL WELLS.TYPE OF PUMP INSTALLED  
PLACE (A,C,J,P,R,S,T,O)  
IN BOX 29.CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH  
(nearest ft.) 43 47CASING HEIGHT (circle appropriate box  
and enter casing height)+ above } LAND SURFACE  
- below } 12 (nearest foot)  
49 50 51

## LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS  
BUILDING, SEPTIC TANKS, AND /OR  
LANDMARKS AND INDICATE NOT LESS  
THAN TWO DISTANCES  
(MEASUREMENTS TO WELL)NUMBER OF UNSUCCESSFUL WELLS: 2WELL HYDROFRACTURED yes no  
Y N

## CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED  
WHEN THIS WELL WAS COMPLETED  
E ELECTRIC LOG OBTAINED  
P TEST WELL CONVERTED TO PRODUCTION  
WELLI HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN  
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND  
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE  
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED  
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE.DRILLERS LIC. NO. 1 M 6D 063DRILLERS SIGNATURE  
(MUST MATCH SIGNATURE ON APPLICATION)LIC. NO. 1 6D 066SITE SUPERVISOR (sign. of driller or journeyman  
responsible for sitework if different from permittee)



<b>C1</b> <b>3213</b>	SEQUENCE NO. (MDE USE ONLY)	<b>STATE OF MARYLAND</b> <b>WELL COMPLETION REPORT</b> FILL IN THIS FORM COMPLETELY PLEASE TYPE	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)			COUNTY NUMBER <b>537155</b>
ST/CO USE ONLY DATE Received MM DD YY 8 13	DATE WELL COMPLETED MM DD YY 6 23 10	Depth of Well 22 30 26 (TO NEAREST FOOT)	PERMIT NO. FROM "PERMIT TO DRILL WELL" <b>MC-15-1148</b>

OWNER <b>600 E GIDE LANDFILL</b>	first name	TOWN <b>Rockville</b>
STREET OR RFD <b>600 E GIDE DR</b>		
SUBDIVISION	SECTION	LOT

<b>WELL LOG</b> Not required for driven wells	<b>GROUTING RECORD</b> WELL HAS BEEN GROUTED (Circle Appropriate Box) yes <b>Y</b> no <b>N</b> TYPE OF GROUTING MATERIAL (Circle one) CEMENT <b>CM</b> BENTONITE CLAY <b>BC</b> NO. OF BAGS <b>45</b> NO. OF POUNDS <b>45</b> GALLONS OF WATER <b>7</b> DEPTH OF GROUT SEAL (to nearest foot) from <b>48</b> TOP <b>52</b> ft. to <b>54</b> BOTTOM <b>58</b> ft. (enter 0 if from surface)	<b>C3</b> 1 2 <b>PUMPING TEST</b> HOURS PUMPED (nearest hour) <b>8</b> <b>9</b> PUMPING RATE (gal. per min.) <b>11</b> <b>15</b> METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING <b>17</b> <b>20</b> ft. WHEN PUMPING <b>22</b> <b>25</b> ft. TYPE OF PUMP USED (for test) <b>A</b> air <b>P</b> piston <b>T</b> turbine <b>C</b> centrifugal <b>R</b> rotary <b>O</b> other (describe below) <b>J</b> jet <b>S</b> submersible
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	<b>CASING RECORD</b> casing types insert appropriate code below <b>ST</b> STEEL <b>CO</b> CONCRETE <b>PL</b> PLASTIC <b>OT</b> OTHER MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) <b>2</b> Total depth of main casing (nearest foot) <b>10</b> EACH CASING OTHER CASING (if used) diameter inch depth (feet) from to	<b>PUMP INSTALLED</b> DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES OR NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) <b>31</b> <b>35</b> PUMP HORSE POWER <b>37</b> <b>41</b> PUMP COLUMN LENGTH (nearest ft.) <b>43</b> <b>47</b> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>12</b> (nearest foot) <b>-</b> below <b>50</b> <b>51</b>
DESCRIPTION (Use additional sheets if needed)	<b>SCREEN RECORD</b> screen type or open hole insert appropriate code below <b>ST</b> STEEL <b>BR</b> BRASS <b>HO</b> OPEN HOLE <b>PL</b> PLASTIC <b>OT</b> OTHER DEPTH (nearest ft.) <b>C2</b> 1 2 <b>PL</b> <b>10</b> <b>30</b> E 8 9 11 15 17 21 A 23 24 26 30 32 36 C 38 39 41 45 47 51 S R E E N SLOT SIZE 1 <b>2</b> <b>2</b> <b>3</b> <b>0</b> DIAMETER OF SCREEN (NEAREST INCH) from <b>56</b> to <b>60</b>	LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)
NUMBER OF UNSUCCESSFUL WELLS: <b>0</b>	WELL HYDROFRACTURED <b>Y</b> <b>N</b>	
CIRCLE APPROPRIATE LETTER <b>A</b> A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED <b>E</b> ELECTRIC LOG OBTAINED <b>P</b> TEST WELL CONVERTED TO PRODUCTION WELL	I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.	
DRILLERS LIC. NO. <b>M 6D 063</b>	GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 <b>5</b> <b>30</b> <b>68</b>	
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	
LIC. NO. <b>56D 064</b>	70 72 74 75 76	
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	TELESCOPE CASING LOG INDICATOR OTHER DATA	

C1 3216

SEQUENCE NO.  
(MDE USE ONLY)STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.COUNTY  
NUMBER

537521

ST/CO USE ONLY

DATE Received

MM DD YY  
8 13

DATE WELL COMPLETED

MM DD YY  
7 5 10

Depth of Well

22 25 26  
(TO NEAREST FOOT)

PERMIT NO.

FROM "PERMIT TO DRILL WELL"

MO 95-1141  
28 29 30 31 32 33 34 35 36 37OWNER Grade Vard Gll  
STREET OR RFD 600 East Grade Drive TOWN Rockville MD  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

## WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARINGDESCRIPTION (Use  
additional sheets if needed)

FEET

check  
if water  
bearing

DESCRIPTION (Use additional sheets if needed)	FROM	TO	check if water bearing
Agate 100'	0	1	
cl	1	2	
Blown fill	2	15	
care 15'	15	25	
part			

## GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)yes no  
Y N  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM

BENTONITE CLAY BC

NO. OF BAGS 1

NO. OF POUNDS 50

GALLONS OF WATER 7

DEPTH OF GROUT SEAL (to nearest foot)

from 48 TOP 52 ft. to 54 BOTTOM 58 ft.  
(enter 0 if from surface)

## CASING RECORD

casing  
types  
insert  
appropriate  
code  
belowST  
STEELCO  
CONCRETEPL  
PLASTICOT  
OTHERMAIN  
CASING  
TYPENominal diameter  
top (main) casing  
(nearest inch)Total depth  
of main casing  
(nearest foot)P2  
60 612  
63 645  
66 70E  
A  
C  
H  
C  
A  
S  
I  
N  
G

OTHER CASING (if used)

diameter  
inchdepth (feet)  
from toscreen type  
or open hole  
insert  
appropriate  
code  
below

## SCREEN RECORD

ST  
STEELBR  
BRASSHO  
OPEN  
HOLEPL  
PLASTICOT  
OTHER

C 2

DEPTH (nearest ft.)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

SLOT SIZE 1 0 2 3 0

DIAMETER  
OF SCREEN2 (NEAREST  
INCH)

56 60

from to

GRAVEL PACK  
IF WELL DRILLED  
WAS FLOWING WELL  
INSERT F IN BOX 682 25  
68MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)

T

(E.R.O.S.)

W Q

70

72

74 75 76

TELESCOPE  
CASINGLOG  
INDICATOR

OTHER DATA

C 3

## PUMPING TEST

HOURS PUMPED (nearest hour)

8 9

PUMPING RATE (gal. per min.)

11 15

METHOD USED TO  
MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING

17 20 ft.

WHEN PUMPING

22 25 ft.

TYPE OF PUMP USED (for test)

A air

P piston

T turbine

C centrifugal

R rotary

O other  
(describe  
below)

J jet

S submersible

## PUMP INSTALLED

DRILLER INSTALLED PUMP  
(CIRCLE) (YES or NO)

YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION  
MUST BE COMPLETED FOR ALL WELLS.TYPE OF PUMP INSTALLED  
PLACE (A,C,J,P,R,S,T,O)  
IN BOX 29.

29

CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon)

31 35

PUMP HORSE POWER

37 41

PUMP COLUMN LENGTH  
(nearest ft.)

43 47

CASING HEIGHT (circle appropriate box  
and enter casing height)

+ above

LAND SURFACE

- below

(nearest  
foot)

## LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS  
BUILDING, SEPTIC TANKS, AND /OR  
LANDMARKS AND INDICATE NOT LESS  
THAN TWO DISTANCES  
(MEASUREMENTS TO WELL)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED

yes

no

Y

N

CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED  
WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

P TEST WELL CONVERTED TO PRODUCTION  
WELLI HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN  
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND  
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE  
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED  
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE.

DRILLERS LIC. NO. M 6D 063

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 56D 066

SITE SUPERVISOR (sign. of driller or journeyman  
responsible for sitework if different from permittee)

C1 3215 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.

COUNTY  
NUMBER 537527

1 2 3 6  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY

DATE Received

MM DD YY

8 13

DATE WELL COMPLETED

MM DD YY  
6 31 10

Depth of Well

22 25 26  
(TO NEAREST FOOT)

PERMIT NO.  
FROM "PERMIT TO DRILL WELL"

MO - 95 - 114

OWNER Grade 1 and 2  
STREET OR RFD 600 E. Grade Drive TOWN Rockville MD  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use  
additional sheets if needed)

FEET

FROM TO

check  
if water  
bearing

Topsoil 0 1  
Brown Dry 1 15  
P. sand 15 25  
Sand 25 27

GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)

yes no  
Y N  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 45 46 1 NO. OF POUNDS 45 46 2

GALLONS OF WATER 7

DEPTH OF GROUT SEAL (to nearest foot)

from 0 48 TOP 52 ft. to 2 54 BOTTOM 58 ft.  
(enter 0 if from surface)

CASING RECORD

casing  
types  
insert  
appropriate  
code  
below

ST CO  
STEEL CONCRETE  
PL OT  
PLASTIC OTHER

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)

PL 60 61 63 64 66 70

OTHER CASING (if used)  
diameter depth (feet)  
inch from to

SCREEN RECORD

screen type or open hole  
insert appropriate code below

ST BR HO  
STEEL BRASS OPEN  
PL BBRONZE HOLE  
PLASTIC OTHER

NUMBER OF UNSUCCESSFUL WELLS: 4

WELL HYDROFRACTURED yes no  
Y N

CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED  
WHEN THIS WELL WAS COMPLETED

E ELECTRIC LOG OBTAINED

P TEST WELL CONVERTED TO PRODUCTION  
WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN  
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND  
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE  
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED  
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE.

DRILLERS LIC. NO. 1 M 6D 263

DRILLERS SIGNATURE  
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 56D 666

SITE SUPERVISOR (sign. of driller or journeyman  
responsible for sitework if different from permittee)

DEPTH (nearest ft.)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

SLOT SIZE 1 0.2 2 3 0  
DIAMETER OF SCREEN 2 (NEAREST INCH)  
from to

GRAVEL PACK IF WELL DRILLED  
WAS FLOWING WELL  
INSERT F IN BOX 68

MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 72 74 75 76  
TELESCOPE LOG OTHER DATA  
CASING INDICATOR

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 8 9

PUMPING RATE (gal. per min.) 11 15

METHOD USED TO  
MEASURE PUMPING RATE

WATER LEVEL (distance from land surface)

BEFORE PUMPING 17 20 ft.

WHEN PUMPING 22 25 ft.

TYPE OF PUMP USED (for test)

A air P piston T turbine  
C centrifugal R rotary O other (describe below)  
J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO  
(CIRCLE) (YES or NO)

IF DRILLER INSTALLS PUMP, THIS SECTION  
MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED  
PLACE (A,C,J,P,R,S,T,O)  
IN BOX 29.

CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH  
(nearest ft.) 43 47

CASING HEIGHT (circle appropriate box  
and enter casing height)

+ above } LAND SURFACE  
- below } 5 (nearest foot)

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS  
BUILDING, SEPTIC TANKS, AND /OR  
LANDMARKS AND INDICATE NOT LESS  
THAN TWO DISTANCES  
(MEASUREMENTS TO WELL)

C1 3214 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.

COUNTY  
NUMBER 537527

ST/CO USE ONLY  
DATE-Received  
MM DD YY  
8 13

DATE WELL COMPLETED  
MM DD YY  
6 29 10

Depth of Well  
22 25 26  
(TO NEAREST FOOT)

PERMIT NO.  
FROM "PERMIT TO DRILL WELL"  
MO-95-1143  
28 29 30 31 32 33 34 35 36 37

OWNER Code 1000 fill  
STREET OR RFD 600 S. Code TOWN Rockville  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR  
COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Topsoil	0	1	
Red clay	1	15	
Gravel	15	20	
Same as above			

GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT ☒ BENTONITE CLAY ☒  
NO. OF BAGS 1 NO. OF POUNDS 30  
GALLONS OF WATER 7  
DEPTH OF GROUT SEAL (to nearest foot)  
from 0 TOP 52 ft. to 54 BOTTOM 58 ft.  
(enter 0 if from surface)

CASING RECORD

casing  
types  
insert  
appropriate  
code  
below  
☒ STEEL ☒ CONCRETE  
☒ PLASTIC ☒ OTHER  
MAIN CASING TYPE  
Nominal diameter top (main) casing (nearest inch) 2  
Total depth of main casing (nearest foot) 5  
60 61 63 64 66 70

OTHER CASING (if used)  
diameter depth (feet)  
inch from to  
EACH CASING

screen type or open hole  
insert appropriate code below  
☒ STEEL ☒ BRASS ☒ OPEN HOLE  
☒ PLASTIC ☒ OTHER

DEPTH (nearest ft.)  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
SLOT SIZE 1 0 2 2 3 0  
DIAMETER OF SCREEN 2 (NEAREST INCH)  
56 60  
from to

GRAVEL PACK  
IF WELL DRILLED  
WAS FLOWING WELL  
INSERT F IN BOX 68

MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)  
T (E.R.O.S.) W Q  
70 72 74 75 76  
TELESCOPE CASING LOG INDICATOR OTHER DATA

C3

PUMPING TEST

HOURS PUMPED (nearest hour) 8 9  
PUMPING RATE (gal. per min.) 11 15  
METHOD USED TO MEASURE PUMPING RATE \_\_\_\_\_  
WATER LEVEL (distance from land surface)  
BEFORE PUMPING 17 20 ft.  
WHEN PUMPING 22 25 ft.  
TYPE OF PUMP USED (for test)  
☒ air ☒ piston ☒ turbine  
☒ centrifugal ☒ rotary ☒ other (describe below)  
☒ jet ☒ submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO  
(CIRCLE) (YES or NO)

IF DRILLER INSTALLS PUMP, THIS SECTION  
MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED  
PLACE (A,C,J,P,R,S,T,O)  
IN BOX 29. 29  
CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon) 31 35  
PUMP HORSE POWER 37 41  
PUMP COLUMN LENGTH  
(nearest ft.) 43 47  
CASING HEIGHT (circle appropriate box  
and enter casing height)  
☒ above 49  
☒ below 49 LAND SURFACE (nearest foot)  
50 51

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS  
BUILDING, SEPTIC TANKS, AND /OR  
LANDMARKS AND INDICATE NOT LESS  
THAN TWO DISTANCES  
(MEASUREMENTS TO WELL)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED ☒ YES ☒ NO

CIRCLE APPROPRIATE LETTER  
A A WELL WAS ABANDONED AND SEALED  
WHEN THIS WELL WAS COMPLETED  
E ELECTRIC LOG OBTAINED  
P TEST WELL CONVERTED TO PRODUCTION  
WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN  
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND  
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE  
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED  
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE.

DRILLERS LIC. NO. M 6 D 063  
DRILLERS SIGNATURE  
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 36 D 064

SITE SUPERVISOR (sign. of driller or journeyman  
responsible for sitework if different from permittee)



<b>C 1</b> 3217 <small>1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)</small>		<b>SEQUENCE NO.</b> (MDE USE ONLY)		<b>STATE OF MARYLAND</b> <b>WELL COMPLETION REPORT</b> FILL IN THIS FORM COMPLETELY PLEASE TYPE		THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.																					
ST/CO USE ONLY DATE Received: MM DD YY 8 13		DATE WELL COMPLETED MM DD YY 15 5 10		Depth of Well 22 25 26 (TO NEAREST FOOT)		PERMIT NO. FROM "PERMIT TO DRILL WELL" MO - 95 - 1144 28 29 30 31 32 33 34 35 36 37																					
OWNER <u>George Landfill</u> STREET OR RFD <u>600 E. Gode Drive</u> SUBDIVISION _____		TOWN <u>Rockville MD</u> SECTION _____		LOT _____																							
<b>WELL LOG</b> Not required for driven wells  STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING		<b>GROUTING RECORD</b> WELL HAS BEEN GROUTED (Circle Appropriate Box) <b>Y</b> <b>N</b> TYPE OF GROUTING MATERIAL (Circle one) CEMENT <b>CM</b> BENTONITE CLAY <b>BC</b> NO. OF BAGS <u>1</u> NO. OF POUNDS <u>30</u> GALLONS OF WATER <u>7</u> DEPTH OF GROUT SEAL (to nearest foot) from <u>0</u> TOP 52 ft. to <u>2</u> BOTTOM 58 ft. (enter 0 if from surface)		<b>C 3</b> 1 2 <b>PUMPING TEST</b> HOURS PUMPED (nearest hour) <u>8</u> <u>9</u> PUMPING RATE (gal. per min.) <u>11</u> <u>15</u> METHOD USED TO MEASURE PUMPING RATE _____ WATER LEVEL (distance from land surface) BEFORE PUMPING <u>17</u> <u>20</u> ft. WHEN PUMPING <u>22</u> <u>25</u> ft. TYPE OF PUMP USED (for test) <b>A</b> air <b>P</b> piston <b>T</b> turbine <b>C</b> centrifugal <b>R</b> rotary <b>O</b> other (describe below) <b>J</b> jet <b>S</b> submersible																							
<table border="1" style="width:100%; border-collapse: collapse;"><thead><tr><th rowspan="2">DESCRIPTION (Use additional sheets if needed)</th><th colspan="2">FEET</th><th rowspan="2">check if water bearing</th></tr><tr><th>FROM</th><th>TO</th></tr></thead><tbody><tr><td><u>Asphalt</u></td><td><u>0</u></td><td><u>1</u></td><td></td></tr><tr><td><u>Fill</u></td><td><u>1</u></td><td><u>3</u></td><td></td></tr><tr><td><u>Clay</u></td><td><u>3</u></td><td><u>15</u></td><td></td></tr><tr><td><u>FC + fill</u></td><td><u>15</u></td><td><u>25</u></td><td></td></tr></tbody></table>		DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing	FROM	TO	<u>Asphalt</u>	<u>0</u>	<u>1</u>		<u>Fill</u>	<u>1</u>	<u>3</u>		<u>Clay</u>	<u>3</u>	<u>15</u>		<u>FC + fill</u>	<u>15</u>	<u>25</u>		<b>CASING RECORD</b> casing types insert appropriate code below <b>ST</b> STEEL <b>CO</b> CONCRETE <b>PL</b> PLASTIC <b>OT</b> OTHER MAIN CASING TYPE <u>PL</u> Nominal diameter top (main) casing (nearest inch) <u>2</u> Total depth of main casing (nearest foot) <u>5</u> 60 61 63 64 66 70  OTHER CASING (if used) EACH CASING diameter inch depth (feet) from to		<b>PUMP INSTALLED</b> DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES OR NO) IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <b>+</b> above <b>-</b> below <u>5</u> (nearest foot) LAND SURFACE <u>50</u> <u>51</u>	
			DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing																					
FROM	TO																										
<u>Asphalt</u>	<u>0</u>	<u>1</u>																									
<u>Fill</u>	<u>1</u>	<u>3</u>																									
<u>Clay</u>	<u>3</u>	<u>15</u>																									
<u>FC + fill</u>	<u>15</u>	<u>25</u>																									
<b>SCREEN RECORD</b> screen type or open hole insert appropriate code below <b>ST</b> STEEL <b>BR</b> BRASS <b>HO</b> OPEN HOLE <b>PL</b> PLASTIC <b>OT</b> OTHER																											
NUMBER OF UNSUCCESSFUL WELLS: <u>0</u>		<b>C 2</b> 1 2 DEPTH (nearest ft.) <u>25</u> EACH CASING diameter inch depth (feet) from to 1 8 9 11 15 17 21 2 23 24 26 30 32 36 3 38 39 41 45 47 51 SLOT SIZE 1 <u>0 2 2 3 0</u> DIAMETER OF SCREEN <u>2</u> (NEAREST INCH) <u>56</u> <u>60</u> from to		<b>LOCATION OF WELL ON LOT</b> SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)  																							
WELL HYDROFRACTURED <b>Y</b> <b>N</b>		<b>GRAVEL PACK</b> IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 <u>68</u>																									
<b>CIRCLE APPROPRIATE LETTER</b> <b>A</b> A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED <b>E</b> ELECTRIC LOG OBTAINED <b>P</b> TEST WELL CONVERTED TO PRODUCTION WELL  I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.		<b>MDE USE ONLY</b> (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA																									
DRILLERS LIC. NO. 1 <u>M 6D 063</u> DRILLERS SIGNATURE <u>[Signature]</u> (MUST MATCH SIGNATURE ON APPLICATION)  LIC. NO. 1 <u>36D 066</u> SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee) <u>[Signature]</u>																											

C1 3225

SEQUENCE NO.  
(MDE USE ONLY)STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED  
45 DAYS AFTER WELL IS COMPLETED.1 2 3 6  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)COUNTY  
NUMBER

537537

ST/CO. USE ONLY

DATE Received  
MM DD YY

DATE WELL COMPLETED

MM DD YY  
6 24 10

Depth of Well

22 25 26  
(TO NEAREST FOOT)PERMIT NO.  
FROM "PERMIT TO DRILL WELL"MD - 95 - 1150  
28 29 30 31 32 33 34 35 36 37OWNER Geode land fill  
STREET OR RFD 600 Geode Drive TOWN Rockville  
SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT \_\_\_\_\_

## WELL LOG

Not required for driven wells

## GROUTING RECORD

WELL HAS BEEN GROUTED  
(Circle Appropriate Box)yes no  
Y N  
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BCNO. OF BAGS 1 NO. OF POUNDS 30GALLONS OF WATER 7

DEPTH OF GROUT SEAL (to nearest foot)

from 8 TOP 52 ft. to 2 BOTTOM 58 ft.  
(enter 0 if from surface)

## CASING RECORD

casing  
types  
insert  
appropriate  
code  
belowST CO  
STEEL CONCRETE  
PL OT  
PLASTIC OTHERMAIN CASING TYPE PL Nominal diameter top (main) casing (nearest inch) 2 Total depth of main casing (nearest foot) 5

60 61 63 64 66 70

OTHER CASING (if used)  
diameter depth (feet)  
inch from to  
EACH CASINGscreen type or open hole  
insert appropriate code below  
ST BR HO  
STEEL BRASS OPEN  
PL PLASTIC HOLE  
OTHER

C 2 DEPTH (nearest ft.)

E 8 9 11 15 17 21  
A 23 24 26 30 32 36  
C 3 38 39 41 45 47 51  
R  
E  
N  
SLOT SIZE 1 0 2 2 3 0DIAMETER OF SCREEN 2 (NEAREST INCH)  
56 60  
from to

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY  
(NOT TO BE FILLED IN BY DRILLER)  
T (E.R.O.S.) W Q70 72 74 75 76  
TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

## PUMPING TEST

HOURS PUMPED (nearest hour) 8 9PUMPING RATE (gal. per min.) 11 15

METHOD USED TO MEASURE PUMPING RATE \_\_\_\_\_

WATER LEVEL (distance from land surface)

BEFORE PUMPING 17 20 ft.WHEN PUMPING 22 25 ft.

TYPE OF PUMP USED (for test)

A air P piston T turbine  
C centrifugal R rotary O other (describe below)  
J jet S submersible

## PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO  
(CIRCLE) (YES or NO)

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED  
PLACE (A,C,J,P,R,S,T,O)  
IN BOX 29. 29CAPACITY:  
GALLONS PER MINUTE  
(to nearest gallon) 31 35PUMP HORSE POWER 37 41PUMP COLUMN LENGTH (nearest ft.) 43 47CASING HEIGHT (circle appropriate box and enter casing height)  
+ above LAND SURFACE  
- below (nearest foot) 2

## LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

NUMBER OF UNSUCCESSFUL WELLS: 0WELL HYDROFRACTURED yes no  
Y N

## CIRCLE APPROPRIATE LETTER

A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED  
E ELECTRIC LOG OBTAINED  
P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. 1 M 6D 063DRILLERS SIGNATURE  
(MUST MATCH SIGNATURE ON APPLICATION)LIC. NO. 1 36D 066

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)



