

July 1, 2024

RE: Dane County Zoning Petition #12048

Kennedy Hills in the Town of Cottage Grove WI

About one-quarter of Wisconsin's population drinks water drawn from over 800,000 private wells. Wells are safe, dependable sources of water if sited wisely and built correctly, per the Wisconsin DNR Website. The Town of Cottage Grove 2022 Comprehensive Plan states "Groundwater is plentiful throughout the Town."

As an infill development, Kennedy Hills proposed 50-lot project is the continuation of the "greater American Heritage rural neighborhood" which started in 1976 and has over 200 homes in the area at the present time. This greater neighborhood was formed on agricultural land and is still presently surrounded by agricultural land on which mostly row crops are grown. The original phase of 16 lots in Kennedy Hills was platted in 2020 and the last home of the 16 is presently under construction. Most of those homes were completed in 2022.

At the public hearing on the 18th of June 2024, the owner of 4535 Sundance Court, Cottage Grove WI 53527 submitted the following:

I'm concerned that adding 50 new houses to the Kennedy Hills Subdivision is going to seriously affect the level of the ground water that we all draw from. We've lived here since 1978, and our well level has dropped 25 feet from where it was when we built our house. Another 50 houses (and lawns) will present a serious amount of water depletion on a yearly basis. Have there been any studies done recently about this problem? Perhaps 50 houses is too many for our groundwater level to support.

The 4535 Sundance Court well is located about 2,300 feet northeast of the first phase of Kennedy Hills and is also about 1,300 feet easterly of the proposed phases. Sundance Court was one of the first streets in the 1976 American Heritage subdivision and it seems the home and well was built circa 1978 about 46 years ago. We were not able to find any records on

that well, but we were able to find records on Unique Well Number MZ068 which is across the cul-de-sac. That attached report shows, at a pumping level of 145 feet below surface, the well produced 20 gallons per minute for 2 hours.

To put that pumping rate into a context and to address the utility of an aquifer, the following is a communication (Copy attached.) with a Wisconsin DNR staff person:

RE: cottage grove area aquifer

Puchalski, Thomas E - DNR <Thomas.Puchalski@wisconsin.gov>

Tue 6/25/2024 6:50 AM

Private wells do not have regulatory restrictions based upon water use unless they exceed 70 gallons per minute. Most Private drinking water wells for household use pump at about 5 gallons per minute. In addition, private wells typically pump for a brief time while re-pressurizing the home's plumbing system (pressure tank), and then turn off. It is unlikely that a Private drinking water well will impact an adjacent Private drinking water well based upon water use.

The abundance of the aquifer serving this greater neighborhood is verified by the performance shown in the recently drilled wells in the Kennedy Hills initial 15 lots. Sam's Rotary, which is the premier well driller in this area, seems to have drilled all the 15 wells. The average production was about 20 gallons per minute which is four times the 5 gallons per minute referenced in the WIDNR Puchalski comments shown above. A review of pumping data for several wells in the greater neighborhood indicate similar results. (Several reports attached.) In discussion with one of Sam's Rotary principals, he stated the subject aquifer contained an abundance of water as shown by his knowledge of the quality of performance in the wells he has installed.

The specific circumstances of the concerned neighbor's well and its apparent problem are unknown and seem atypical.

If there is additional information required, please contact us.

Dave Dinkel dave@propertyshop-realtors.com

**Well Construction Report
WISCONSIN UNIQUE WELL NUMBER**

MZ068

Drinking Water and Groundwater - DG/5
Department of Natural Resources, Box 7921
Madison WI 53707 Form 3300-077A

Property Owner MOEN, NORM		Phone # (608)839-5192		1. Well Location		Fire # (if avail.)	
Mailing Address 4538 SUNDANCE CT		City COTTAGE GROVE		State WI		Zip Code 53527	
County Dane		Co. Permit # 15954		Notification #		Completed 11-13-1998	
Well Constructor (Business Name) SAMS ROTARY DRILLERS INC		Lic. # 370		Facility ID # (Public Wells)		Latitude / Longitude in Decimal Degree (DD) 43.0976 °N -89.1702 °W	
Address PO BOX 150 RANDOLPH WI 53956-0150		Well Plan Approval #		Approval Date (mm-dd-yyyy)		Method Code GCD013	
Hicap Permanent Well #		Common Well #		Specific Capacity 0.4		Subdivision Name AMERICAN HERITAGE	
3. Well serves 3 # of HOMES		Hicap Well ? No		Private, potable		Hicap Property ? No	
Heat Exchange ___ # of drillholes		Hicap Potable ?		Construction Type Drilled		2. Well Type Reconstruction	
						of previous unique well # JB221 constructed in	
						Reason for replaced or reconstructed well ?	

4. Potential Contamination Sources - ON REVERSE SIDE

<p>5. Drillhole Dimensions and Construction Method</p> <table style="width: 100%;"> <tr> <td style="width: 50%;">Upper Enlarged Drillhole</td> <td style="width: 50%;">Lower Open Bedrock</td> </tr> <tr> <td>Rotary - Mud Circulation</td> <td></td> </tr> <tr> <td>Rotary - Air</td> <td></td> </tr> <tr> <td>Rotary - Air & Foam</td> <td></td> </tr> <tr> <td>Drill-Through Casing Hammer</td> <td></td> </tr> <tr> <td>Reverse Rotary</td> <td></td> </tr> <tr> <td>Cable-tool Bit ___ in. dia...</td> <td></td> </tr> <tr> <td>Dual Rotary</td> <td></td> </tr> <tr> <td>Temp. Outer Casing ___ in. dia</td> <td></td> </tr> <tr> <td>Removed? ___ depth ft. (If NO explain on back side)</td> <td></td> </tr> </table>	Upper Enlarged Drillhole	Lower Open Bedrock	Rotary - Mud Circulation		Rotary - Air		Rotary - Air & Foam		Drill-Through Casing Hammer		Reverse Rotary		Cable-tool Bit ___ in. dia...		Dual Rotary		Temp. Outer Casing ___ in. dia		Removed? ___ depth ft. (If NO explain on back side)		<p>8. Geology</p>
Upper Enlarged Drillhole	Lower Open Bedrock																				
Rotary - Mud Circulation																					
Rotary - Air																					
Rotary - Air & Foam																					
Drill-Through Casing Hammer																					
Reverse Rotary																					
Cable-tool Bit ___ in. dia...																					
Dual Rotary																					
Temp. Outer Casing ___ in. dia																					
Removed? ___ depth ft. (If NO explain on back side)																					

<p>6. Casing, Liner, Screen</p> <table style="width: 100%;"> <tr> <td style="width: 30%;">Dia. (in.)</td> <td style="width: 40%;">Screen type, material & slot size</td> <td style="width: 10%;">From (ft.)</td> <td style="width: 10%;">To (ft.)</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> <p>7. Grout or Other Sealing Material</p> <table style="width: 100%;"> <tr> <td style="width: 30%;">Method</td> <td style="width: 10%;">From (ft.)</td> <td style="width: 10%;">To (ft.)</td> <td style="width: 10%;"># Sacks Cement</td> </tr> <tr> <td>Kind of Sealing Material</td> <td>Surface</td> <td> </td> <td> </td> </tr> </table>	Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)					Method	From (ft.)	To (ft.)	# Sacks Cement	Kind of Sealing Material	Surface			<p>9. Static Water Level</p> <p>93 ft. below ground surface</p> <p>10. Pump Test</p> <p>Pumping level 145 ft. below surface</p> <p>Pumping at 20 GP M for 2 Hrs.</p> <p>Pumping Method ?</p> <p>11. Well Is</p> <p>___ in. Grade</p> <p>Developed ?</p> <p>Disinfected ?</p> <p>Capped ?</p> <p>12. Notified Owner of need to fill & seal ?</p> <p>Filled & Sealed Well(s) as needed?</p> <table style="width: 100%; border-top: 1px solid black;"> <tr> <td style="width: 50%;">13. Constructor / Supervisory Driller</td> <td style="width: 20%;">Lic #</td> <td style="width: 30%;">Date Signed</td> </tr> <tr> <td>SVJ</td> <td> </td> <td>01-27-1999</td> </tr> <tr> <td>Drill Rig Operator</td> <td>Lic or Reg #</td> <td>Date Signed</td> </tr> <tr> <td>SCK</td> <td> </td> <td>01-27-1999</td> </tr> </table>	13. Constructor / Supervisory Driller	Lic #	Date Signed	SVJ		01-27-1999	Drill Rig Operator	Lic or Reg #	Date Signed	SCK		01-27-1999
Dia. (in.)	Screen type, material & slot size	From (ft.)	To (ft.)																										
Method	From (ft.)	To (ft.)	# Sacks Cement																										
Kind of Sealing Material	Surface																												
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Drill Rig Operator	Lic or Reg #	Date Signed																											
SCK		01-27-1999																											

RE: cottage grove area aquafer

Puchalski, Thomas E - DNR <Thomas.Puchalski@wisconsin.gov>

Tue 6/25/2024 6:50 AM

To:wismapping@charter.net <wismapping@charter.net>

Private wells do not have regulatory restrictions based upon water use unless they exceed 70 gallons per minute. Most Private drinking water wells for household use pump at about 5 gallons per minute. In addition, private wells typically pump for a brief time while re-pressurizing the home's plumbing system (pressure tank), and then turn off. It is unlikely that a Private drinking water well will impact an adjacent Private drinking water well based upon water use.

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Tom Puchalski

Phone: (608) 386-8777

Thomas.Puchalski@wisconsin.gov

From: wismapping@charter.net <wismapping@charter.net>

Sent: Monday, June 24, 2024 4:33 PM

To: Puchalski, Thomas E - DNR <Thomas.Puchalski@wisconsin.gov>

Subject: cottage grove area aquafer

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Hello:

I am in the process of rezoning some land in the SW ¼ of the SE ¼ of Section 3-7-11, Town of Cottage Grove, Dane County.

Its an infill area and is slated for Private wells and septic systems. A question has been raised by a neighbor on whether the aquafer in that area is adequate For 50 additional lots. I have looked at the DNR well construction reports for the area and most seem to show a static water level At 70 some feet below surface and pump levels around 100 feet. Most of the underlying area is sandstone.

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				AAR330		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A
Property Owner TIM O'BRIEN HOMES - MADISON				Phone # (608)661-1111		1. Well Location				Fire # (if avail.)
Mailing Address 2601 CROSSROADS DRIVE						Village of COTTAGE GROVE				4465
City MADISON				State WI	Zip Code 53718	Street Address or Road Name and Number SCENIC OAK DRIVE				
County Dane	Co. Permit # 22-106	Notification # 8757881303	Completed 06-09-2022	Subdivision Name KENNEDY HILLS				Lot # 16	Block #	
Well Constructor (Business Name) SAM'S WELL DRILLING INC				Lic. # 370	Facility ID # (Public Wells)	Latitude / Longitude in Decimal Degree (DD)				Method Code
Address PO BOX 150 N9935 PLEASANT RD RANDOLPH WI 53956				Well Plan Approval #		43.0935 °N -89.1786 °W				GPS008
Hicap Permanent Well #				Common Well #	Specific Capacity 0.9	NW	NE	Section 10	Township 7 N	Range 11 E
3. Well serves 1 # of HOME				Hicap Well ? No		2. Well Type New Well				
Private, potable				Hicap Property ? No		of previous unique well #				constructed in
Heat Exchange ___ # of drillholes				Hicap Potable ? No		Reason for replaced or reconstructed well ?				
						Construction Type Drilled				
4. Potential Contamination Sources - ON REVERSE SIDE										
5. Drillhole Dimensions and Construction Method						8. Geology				
Dia. (in.)	From (ft.)	To (ft.)	Upper Enlarged Drillhole	Lower Open Bedrock	Geology Codes	8. Geology Type, Caving/Noncaving, Color, Hardness, etc...			From (ft.)	To (ft.)
8.75	Surface	145	Yes Rotary - Mud Circulation	No	C	C-CLAY	Surface	11		
6	145	222	No Rotary - Air	Yes	C G	C-CLAY G-W/GRAVEL/STONES	11	33		
			No Rotary - Air & Foam	No	N	N-SANDSTONE	33	85		
			No Drill-Through Casing Hammer		H	H-SHALE	85	113		
			No Reverse Rotary		H N	H-SHALE N-W/SANDSTONE	113	137		
			No Cable-tool Bit ___ in. dia...	No	L	L-LIMESTONE/DOLOMITE	137	205		
			No Dual Rotary	No	N	N-SANDSTONE	205	222		
			Yes Temp. Outer Casing 10in. dia							
			Yes Removed? 3depth ft. (If NO explain on back side)							
6. Casing, Liner, Screen						9. Static Water Level			11. Well Is	
Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly			From (ft.)	To (ft.)	68 ft. below ground surface			24 in. above grade	
6	STD, BLK, PIPE, .280 WALL, P.E., A53B, HUSTEEL			Surface	145	10. Pump Test			Developed ? Yes	
Dia. (in.)	Screen type, material & slot size			From (ft.)	To (ft.)	Pumping level 100 ft. below surface			Disinfected ? Yes	
						Pumping at 30 GP M for 1 Hrs.			Capped ? Yes	
						Pumping Method ? Airlift				
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ? No				
Method TREMIE PIPE - PUMPED						Filled & Sealed Well(s) as needed? No				
Kind of Sealing Material		From (ft.)	To (ft.)	# Sacks Cement						
NEAT CEMENT GROUT		Surface	145	25 S						
						13. Constructor / Supervisory Driller		Lic #	Date Signed	
						JVG		6026	06-10-2022	
						Drill Rig Operator		Lic or Reg #	Date Signed	
						JS		7377	06-09-2022	

Kennedy Hills, 2021, Static water 62' below pump level 100'

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				AAO256		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A							
Property Owner PAUPLIS, BARBARA				Phone #		1. Well Location				Fire # (if avail.)							
Mailing Address 43 ESTABROOK ROAD						Village of COTTAGE GROVE				2177							
City CARLISLE				State ME Zip Code 01741		Street Address or Road Name and Number WOODED RIDGE TRAIL											
County Dane		Co. Permit # 21-166		Notification # 8526730504		Subdivision Name KENNEDY HILLS		Lot # 9		Block #							
Date 11-19-2021				Completed		Latitude / Longitude in Decimal Degree (DD)				Method Code							
Well Constructor (Business Name) SAM'S WELL DRILLING INC				Lic. # 370		43.0935 °N -89.1754 °W				GPS008							
Address PO BOX 150 N9935 PLEASANT RD RANDOLPH WI 53956				Facility ID (Public Wells)		NW NE Section Township Range				10 7 N 11 E							
Hicap Permanent Well #				Common Well #		2. Well Type New Well				constructed in							
Specific Capacity 0.5				Approval Date (mm-dd-yyyy)		Reason for replaced or reconstructed well ?											
3. Well serves 1 # of HOME				Hicap Well ? No		Construction Type Drilled											
Private, potable				Hicap Property ? No													
Heat Exchange # of drillholes				Hicap Potable ? No													
4. Potential Contamination Sources - ON REVERSE SIDE																	
5. Drillhole Dimensions and Construction Method						8. Geology											
Dia. (in.)		From (ft.)		To (ft.)		Upper Enlarged Drillhole		Lower Open Bedrock		Geology Codes		8. Geology Type, Caving/Noncaving, Color, Hardness, etc...		From (ft.)		To (ft.)	
8.75		Surface		98		Yes Rotary - Mud Circulation		No		X G		X-SAND & CLAY G-W/GRAVEL/STONES		Surface		30	
6		98		202		No Rotary - Air		Yes		N		N-SANDSTONE		30		82	
						No Rotary - Air & Foam		No		S L		S-SAND L-LIMEY OR DOLOMITIC		82		182	
						No Drill-Through Casing Hammer				N		N-SANDSTONE		182		202	
						No Reverse Rotary											
						No Cable-tool Bit in dia...		No									
						No Dual Rotary		No									
						Yes Temp. Outer Casing 10in. dia											
						Yes Removed? 3depth ft. (if NO explain on back side)											
6. Casing, Liner, Screen						9. Static Water Level				11. Well Is							
Dia. (in.)		Material, Weight, Specification		From (ft.) To (ft.)		62 ft. below ground surface				24 in. above grade							
6 STD, BLK, PIPE, .280 WALL, P.E., A53B, SEAH		Surface		98		10. Pump Test				Developed ? Yes							
Dia. (in.)		Screen type, material & slot size		From (ft.) To (ft.)		Pumping level 100 ft. below surface				Disinfected ? Yes							
						Pumping at 20 G.P.M. for 1 Hrs.				Capped ? Yes							
						Pumping Method ? Airlift											
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?				No							
Method TREMIE PIPE - PUMPED		Kind of Sealing Material		From (ft.) To (ft.)		# Sacks Cement		Filled & Sealed Well(s) as needed?				No					
NEAT CEMENT GROUT		Surface		98		20 S											
13. Constructor / Supervisory Driller						Lic #		Date Signed									
JVG						6026		11-22-2021									
Drill Rig Operator						Lic or Reg #		Date Signed									
SS						7367		11-19-2021									

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				AAQ158		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A
Property Owner GANNON CONSTRUCTION				Phone #		1. Well Location				Fire # (if avail.)
Mailing Address PO BOX 75						Town of COTTAGE GROVE				2207
City MCFARLAND				State WI	Zip Code 53558	Street Address or Road Name and Number WOODED RIDGE TRAIL				
County Dane	Co. Permit # 22-36	Notification # 8663293210	Completed 02-25-2022		Subdivision Name KENNEDY HILLS			Lot # 6	Block #	
Well Constructor (Business Name) SAM'S WELL DRILLING INC			Lic. # 370	Facility ID # (Public Wells)		Latitude / Longitude in Decimal Degree (DD) 43.0919 °N -89.1768 °W			Method Code GPS008	
Address PO BOX 150 N9935 PLEASANT RD RANDOLPH WI 53956			Well Plan Approval #		NW NE Section Township Range 10 7 N 11 E		2. Well Type New Well			
Hicap Permanent Well #			Common Well #		Specific Capacity 0.6		of previous unique well # constructed in			
Hicap Potable ? No			Hicap Property ? No		Hicap Well ? No		Reason for replaced or reconstructed well ?			
Heat Exchange ___ # of drillholes			Hicap Potable ? No		Construction Type Drilled					
3. Well serves 1 # of HOME										
Private, potable										
4. Potential Contamination Sources - ON REVERSE SIDE										
5. Drillhole Dimensions and Construction Method						8. Geology				
Dia. (in.)	From (ft.)	To (ft.)	Upper Enlarged Drillhole		Lower Open Bedrock	Geology Codes	8. Geology Type, Caving/Noncaving, Color, Hardness, etc...		From (ft.)	To (ft.)
8.75	Surface	98	Yes	Rotary - Mud Circulation	No	C	C-CLAY	Surface	12	
6	98	120	No	Rotary - Air	Yes	Z	Z-CLAY & GRAVEL	12	52	
			No	Rotary - Air & Foam	No	H	H-SHALE	52	60	
			No	Drill-Through Casing Hammer		N H	N-SANDSTONE H-SHALEY	60	81	
			No	Reverse Rotary		L	L-LIMESTONE/DOLOMITE	81	115	
			No	Cable-tool Bit ___ in. dia...	No	B L	B-BROKEN L-LIMESTONE/DOLOMITE	115	120	
			No	Dual Rotary	No					
			Yes	Temp. Outer Casing 10in. dia						
			Yes	Removed? 3depth ft. (If NO explain on back side)						
6. Casing, Liner, Screen						9. Static Water Level			11. Well Is	
Dia. (in.)	Material, Weight, Specification Manufacturer & Method of Assembly			From (ft.)	To (ft.)	61 ft. below ground surface			24 in. above grade	
6	STD, BLK, PIPE, .280 WALL, P.E., A53B, HUSTEEL			Surface	98	10. Pump Test			Developed ? Yes	
	Screen type, material & slot size			From (ft.)	To (ft.)	Pumping level 80 ft. below surface			Disinfected ? Yes	
						Pumping at 12 GP M for 1 Hrs.			Capped ? Yes	
						Pumping Method ? Airlift				
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ? No				
Method TREMIE PIPE - PUMPED						Filled & Sealed Well(s) as needed? No				
Kind of Sealing Material		From (ft.)	To (ft.)	# Sacks Cement		13. Constructor / Supervisory Driller				
NEAT CEMENT GROUT		Surface	98	20 S		JVJG		Lic # 6026	Date Signed 02-28-2022	
						Drill Rig Operator		Lic or Reg # 8628	Date Signed 02-25-2022	
						JH				

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				AAV091		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A							
Property Owner BAINER, KYLE & SAMANTHA				Phone #		1. Well Location				Fire # (if avail.)							
Mailing Address 880 ARROWHEAD CIR						Town of COTTAGE GROVE				2202							
City SUN PRAIRIE				State WI		Zip Code 53590		Street Address or Road Name and Number									
						WOODED RIDGE TRAIL											
County Dane		Co. Permit # 22-174		Notification # 8841554301		Completed 09-07-2022		Subdivision Name		Lot #	Block #						
Well Constructor (Business Name) SAM'S WELL DRILLING INC				Lic. # 370		Facility ID # (Public Wells)		Latitude / Longitude in Decimal Degree (DD)		Method Code							
Address PO BOX 150 N9935 PLEASANT RD RANDOLPH WI 53956						Well Plan Approval #		43.0926 °N -89.1769 °W		GPS008							
Hicap Permanent Well #		Common Well #		Specific Capacity		Approval Date (mm-dd-yyyy)		NW NE Section Township Range		or Govt Lot #							
				0.4				10 7 N 11 E									
3. Well serves 1 # of HOME				Hicap Well ? No		2. Well Type New Well				of previous unique well # constructed in							
Private, potable				Hicap Property ? No						Reason for replaced or reconstructed well ?							
Heat Exchange ___ # of drillholes				Hicap Potable ? No		Construction Type Drilled											
4. Potential Contamination Sources - ON REVERSE SIDE																	
5. Drillhole Dimensions and Construction Method						8. Geology											
Dia. (in.)		From (ft.)		To (ft.)		Upper Enlarged Drillhole		Lower Open Bedrock		Geology Codes		8. Geology Type, Caving/Noncaving, Color, Hardness, etc...		From (ft.)		To (ft.)	
8.75		Surface		158		Yes Rotary - Mud Circulation		No		Z S		Z-CLAY & GRAVEL S-SANDY		Surface		38	
6		158		198		No Rotary - Air		Yes		N		N-SANDSTONE		38		55	
						No Rotary - Air & Foam		No		H		H-SHALE		55		70	
						No Drill-Through Casing Hammer				L		L-LIMESTONE/DOLOMITE		70		138	
						No Reverse Rotary				N		N-SANDSTONE		138		198	
						No Cable-tool Bit ___ in. dia...		No									
						No Dual Rotary		No									
						No Temp. Outer Casing ___ in. dia											
						No Removed? ___ depth ft. (If NO explain on back side)											
6. Casing, Liner, Screen						9. Static Water Level				11. Well Is							
Dia. (in.)		Material, Weight, Specification Manufacturer & Method of Assembly				From (ft.)		To (ft.)		65 ft. below ground surface		24 in. above grade					
6		STD, BLK, PIPE, .280 WALL, P.E., A53B, HUSTEEL				Surface		158		10. Pump Test		Developed ? Yes					
Dia. (in.)		Screen type, material & slot size				From (ft.)		To (ft.)		Pumping level 120 ft. below surface		Disinfected ? Yes					
										Pumping at 20 GP M for 1 Hrs.		Capped ? Yes					
										Pumping Method ? Airlift							
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?						No					
Method TREMIE PIPE - PUMPED																	
Kind of Sealing Material		From (ft.)		To (ft.)		# Sacks Cement		Filled & Sealed Well(s) as needed?				No					
NEAT CEMENT GROUT		Surface		158		27 S											
13. Constructor / Supervisory Driller				Lic #		Date Signed											
JVG				6026		09-08-2022											
Drill Rig Operator				Lic or Reg #		Date Signed											
SS				7367		09-07-2022											

Kennedy Rd, 2002, static water level in pump level 105'

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				QR475		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707				Form 3300-077A							
Property Owner BURKE, ROB & SHERRI				Phone #		1. Well Location				Fire # (if avail.)							
Mailing Address 616 OAK ST						Town of COTTAGE GROVE											
City COTTAGE GROVE				State WI Zip Code 53527		Street Address or Road Name and Number 4500 KENNEDY											
County Dane		Co. Permit # 19911		Notification # 07-20-2001		Subdivision Name				Lot # 2 Block #							
Well Constructor (Business Name) WEBSTER BRAD & SONS DRILLING INC				Lic. # 6574		Latitude / Longitude in Decimal Degree (DD)				Method Code							
Address N2323 PINE HOLLOW RD POYNETTE WI 53955				Well Plan Approval #		43.0952 °N -89.179 °W				GCD013							
Hicap Permanent Well #				Common Well #		SW SE Section Township Range or Govt Lot # 3 7 N 11 E											
3. Well serves 1 # of				Hicap Well ? No		2. Well Type New Well				of previous unique well # constructed in							
Private, potable				Hicap Property ? No		Reason for replaced or reconstructed well ?											
Heat Exchange ___ # of drillholes				Hicap Potable ?		Construction Type Drilled											
4. Potential Contamination Sources - ON REVERSE SIDE																	
5. Drillhole Dimensions and Construction Method						8. Geology											
Dia. (in.)		From (ft.)		To (ft.)		Upper Enlarged Drillhole		Lower Open Bedrock		Geology Codes		8. Geology Type, Caving/Noncaving, Color, Hardness, etc...		From (ft.)		To (ft.)	
8.8		Surface		80		Yes		No		- Y -		SAND & GRAVEL		Surface		38	
6		80		160		No		Yes		- S N -		SOFT SANDSTONE		38		42	
										- N H -		SANDSTONE & SHALE		42		78	
										- N -		SANDSTONE		78		160	
6. Casing, Liner, Screen												9. Static Water Level		11. Well Is			
Dia. (in.) Material, Weight, Specification Manufacturer & Method of Assembly				From (ft.)		To (ft.)		76 ft. below ground surface				18 in. above grade					
6 IPSCO A53B .280 WALL PE				Surface		80		10. Pump Test				Developed ? Yes					
Dia. (in.) Screen type, material & slot size				From (ft.)		To (ft.)		Pumping level 105 ft. below surface				Disinfected ? Yes					
								Pumping at 12 GP M for 2 Hrs.				Capped ? Yes					
								Pumping Method ?									
7. Grout or Other Sealing Material												12. Notified Owner of need to fill & seal ?					
Method PRESSURE TREMIE				From (ft.)		To (ft.)		Filled & Sealed Well(s) as needed?				No					
Kind of Sealing Material				Surface		80		NONE									
NEAT CEMENT						15 S		13. Constructor / Supervisory Driller				Lic #		Date Signed			
								BW						07-28-2002			
								Drill Rig Operator				Lic or Reg #		Date Signed			
								DW						07-28-2002			

Southern Court, 1772, 3
pump level 70' below

Well Construction Report		ER603		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707		Form 3300-077A	
WISCONSIN UNIQUE WELL NUMBER							
Property Owner TIM SHAW		Phone # (608)223-0301		1. Well Location		Fire # (if avail.)	
Mailing Address 3410 MEIER RD				Town of COTTAGE GROVE			
City MADISON		State WI Zip Code 53704		Street Address or Road Name and Number 2169 SOUTHERN COURT			
County Dane		Co. Permit # W06403		Subdivision Name AMER HERITAGE S SLOPE ADDR		Lot # Block #	
Notification #		Completed 01-16-1992		Latitude / Longitude in Decimal Degree (DD)		Method Code	
Well Constructor (Business Name) BERKHOLTZ, RICHARD		Lic. # 3		Facility ID # (Public Wells)		43.0934 °N -89.1742 °W GCD013	
Address 6400 LAKE RD WINDSOR WI 53598-9717		Well Plan Approval #		NE NE Section Township Range		10 7 N 11 E	
Approval Date (mm-dd-yyyy)		Hicap Permanent Well #		Common Well #		Specific Capacity	
						0.4	
3. Well serves 1 # of		Hicap Well ? No		2. Well Type New Well		of previous unique well # constructed in	
Private, potable		Hicap Property ? No		Reason for replaced or reconstructed well ?		NEW HOME	
Heat Exchange # of drillholes		Hicap Potable ?		Construction Type Drilled			
4. Potential Contamination Sources - ON REVERSE SIDE							
5. Drillhole Dimensions and Construction Method				8. Geology			
Dia. (in.) From (ft.) To (ft.)		Upper Enlarged Drillhole		Lower Open Bedrock		Geology Codes	
8.75 Surface 50		Yes		Rotary - Mud Circulation		8. Geology Type, Caving/Noncaving, Color, Hardness, etc...	
6 50 205		Rotary - Air		Rotary - Air & Foam		From (ft.) To (ft.)	
		Drill-Through Casing Hammer		Reverse Rotary		Z S SAND CLAY @ BOULDERS Surface 48	
		Cable-tool Bit ___ in. dia.		Dual Rotary		L LIMESTONE 48 140	
		Temp. Outer Casing ___ in. dia		Removed? ___ depth ft. (If NO explain on back side)		H N HARD RED SANDSTONE 140 185	
						T N TAN SANDSTONE 185 205	
6. Casing, Liner, Screen				9. Static Water Level		11. Well is	
Dia. (in.) Material, Weight, Specification		From (ft.) To (ft.)		35 ft. below ground surface		16 in. above grade	
Manufacturer & Method of Assembly				10. Pump Test		Developed ? Yes	
6 STD. STEEL PE NEW 18.97 LBS ASTMA-53 SAWHILL GR B		Surface 50		Pumping level 70 ft. below surface		Disinfected ? Yes	
Dia. (in.) Screen type, material & slot size		From (ft.) To (ft.)		Pumping at 15 GP for 1 Hrs.		Capped ? Yes	
				Pumping Method ?			
7. Grout or Other Sealing Material				12. Notified Owner of need to fill & seal ?			
Method FULL HOLE				Filled & Sealed Well(s) as needed?			
Kind of Sealing Material		From (ft.) To (ft.) # Sacks Cement					
BENTONITE @ CUTTINGS		Surface 50					
				13. Constructor / Supervisory Driller		Lic # Date Signed	
				RB		04-21-1992	
				Drill Rig Operator		Lic or Reg # Date Signed	
				MB		04-21-1992	

Well Construction Report WISCONSIN UNIQUE WELL NUMBER				CZ780		Drinking Water and Groundwater - DG/5 Department of Natural Resources, Box 7921 Madison WI 53707		Form 3300-077A							
Property Owner A@K BUILDERS				Phone # (608)251-0940		1. Well Location									
Mailing Address 310 S CHARTER				City MADISON State WI Zip Code 53715		Town of COTTAGE GROVE									
City MADISON State WI Zip Code 53715				County Dane Co. Permit # W05110 Notification # 08-28-1991 Completed		Street Address or Road Name and Number 4569 KENNEDY									
Well Constructor (Business Name) SAMS ROTARY DRILLERS Lic. # 370 Facility ID # (Public Wells)				Well Plan Approval #		Subdivision Name									
Address PO BOX 150 RANDOLPH WI 53956-0150				Approval Date (mm-dd-yyyy)		Latitude / Longitude in Decimal Degree (DD) Method Code 43.0991 °N -89.1801 °W GCD013									
Hicap Permanent Well #				Common Well #		NE SW Section Township Range 3 7 N 11 E									
3. Well serves 1 # of Private, potable				Hicap Well ? No		2. Well Type New Well									
Heat Exchange # of drillholes				Hicap Property ? No		of previous unique well # constructed in									
Hicap Potable ?				Hicap Potable ?		Reason for replaced or reconstructed well ? HOME									
4. Potential Contamination Sources - ON REVERSE SIDE				Construction Type Drilled											
5. Drillhole Dimensions and Construction Method					8. Geology										
Dia. (in.)		From (ft.) To (ft.)		Upper Enlarged Drillhole		Lower Open Bedrock		Geology Codes		3. Geology Type, Caving/Noncaving, Color, Hardness, etc...		From (ft.) To (ft.)			
8		Surface		42		Yes		Rotary - Mud Circulation				Surface 5			
6		42		155		Yes		Rotary - Air		C		CLAY		5 18	
								Rotary - Air & Foam		N		SAND @ GRAVEL		18 50	
								Drill-Through Casing Hammer		H		SHALE		50 53	
								Reverse Rotary		N		SANDROCK		53 60	
								Cable-tool Bit ___ in. dia...		L		LIMEROCK		60 83	
								Dual Rotary		B L		BROKEN ROCK		83 85	
								Temp. Outer Casing ___ in. dia		L		LIMEROCK		85 155	
								Removed? ___ depth ft. (If NO explain on back side)							
6. Casing, Liner, Screen					9. Static Water Level					11. Well Is					
Dia. (in.)		Material, Weight, Specification Manufacturer & Method of Assembly			From (ft.) To (ft.)		40 ft. below ground surface			18 in. above grade					
6		STD BLACK PIPE .280 WALL, WELD JTS, A-53,KHC			Surface 42		10. Pump Test			Developed ? Yes					
Dia. (in.)		Screen type, material & slot size			From (ft.) To (ft.)		Pumping level 84 ft. below surface			Disinfected ? Yes					
							Pumping at 20 GP for 1 Hrs.			Capped ? Yes					
							Pumping Method ?								
7. Grout or Other Sealing Material					12. Notified Owner of need to fill & seal ?										
Method TREMIE					Filled & Sealed Well(s) as needed?										
Kind of Sealing Material		From (ft.) To (ft.)		# Sacks Cement											
MUD @ CUTTINGS		Surface 8		8											
CEMENT		8 42		8											
13. Constructor / Supervisory Driller					Lic #		Date Signed								
SV							09-09-1991								
Drill Rig Operator					Lic or Reg #		Date Signed								
SCK							09-16-1991								