

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 18<sup>th</sup> 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		<b>1. Well Location</b>		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		Private, potable		Heat Exchange # of drillholes		2. Well Type Reconstruction	
Hicap Well ? No		Hicap Property ? No		Hicap Potable ?		of previous unique well # JB221 constructed in	
						Reason for replaced or reconstructed well ?	
						Construction Type Drilled	

**4. Potential Contamination Sources - ON REVERSE SIDE**

<b>5. Drillhole Dimensions and Construction Method</b>		<b>8. Geology</b>	
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)			

<b>6. Casing, Liner, Screen</b>		<b>9. Static Water Level</b>		<b>11. Well Is</b>	
Dia. (in.) Screen type, material & slot size		From (ft.) To (ft.)		93 ft. below ground surface	
				___ in. Grade	
<b>7. Grout or Other Sealing Material</b>		<b>10. Pump Test</b>		Developed ?	
Method		Pumping level 145 ft. below surface		Disinfected ?	
Kind of Sealing Material		Pumping at 20 GP M for 2 Hrs.		Capped ?	
From (ft.) To (ft.) # Sacks Cement		Pumping Method ?			
Surface					
		<b>12. Notified Owner of need to fill &amp; seal ?</b>			
		Filled & Sealed Well(s) as needed?			
		<b>13. Constructor / Supervisory Driller</b>		Lic #	
		SVJ		Date Signed 01-27-1999	
		Drill Rig Operator		Lic or Reg #	
		SCK		Date Signed 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		<b>1. Well Location</b>				Fire # (if avail.)	
Mailing Address 2601 CROSSROADS DRIVE				City MADISON		Village of COTTAGE GROVE				4465	
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 #		Approval Date (mm-dd-yyyy)	NW	NE	Section 10	Township 7 N	Range 11 E	
Hicap Permanent Well #		Common Well #	Specific Capacity 0.9		Reason for replaced or reconstructed well ?			Construction Type Drilled			
<b>3. Well serves</b>				Hicap Well ?		No					
Private, potable				Hicap Property ?		No					
Heat Exchange # of drillholes				Hicap Potable ?		No					
<b>4. Potential Contamination Sources - ON REVERSE SIDE</b>											
<b>5. Drillhole Dimensions and Construction Method</b>						<b>8. Geology</b>					
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)								
<b>6. Casing, Liner, Screen</b>						<b>9. Static Water Level</b>			<b>11. Well Is</b>		
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	<b>10. Pump Test</b>			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					
<b>7. Grout or Other Sealing Material</b>						<b>12. Notified Owner of need to fill &amp; seal ?</b>			No		
Method TREMIE PIPE - PUMPED						Filled & Sealed Well(s) as needed?			No		
Kind of Sealing Material		From (ft.)	To (ft.)	# Sacks Cement		<b>13. Constructor / Supervisory Driller</b>			Lic #	Date Signed	
NEAT CEMENT GROUT		Surface	145	25 S		JVG			6026	06-10-2022	
						<b>Drill Rig Operator</b>			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		Completed 11-19-2021		Subdivision Name KENNEDY HILLS		Lot # 9 Block #							
Well Constructor (Business Name) SAM'S WELL DRILLING INC				Lic. # 370		Latitude / Longitude in Decimal Degree (DD)				Method Code							
Address PO BOX 150 N9935 PLEASANT RD RANDOLPH WI 53956				Well Plan Approval #		43.0935 °N -89.1754 °W				GPS008							
Hicap Permanent Well #				Common Well #		or Govt Lot # 10				Section Township Range 7 N 11 E							
Specific Capacity 0.5				Approval Date (mm-dd-yyyy)		2. Well Type New Well				constructed in							
3. Well serves 1 # of HOME				Hicap Well ? No		Reason for replaced or reconstructed well ?											
Private, potable				Hicap Property ? No		Construction Type Drilled											
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						Filled & Sealed Well(s) as needed?				No							
Kind of Sealing Material		From (ft.) To (ft.)		# Sacks Cement													
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									

<b>Well Construction Report</b>				<b>AAQ158</b>		<b>Drinking Water and Groundwater - DG/5</b>				Form 3300-077A							
<b>WISCONSIN UNIQUE WELL NUMBER</b>						Department of Natural Resources, Box 7921				Madison WI 53707							
Property Owner: GANNON CONSTRUCTION						Phone #											
Mailing Address: PO BOX 75						1. Well Location						Fire # (if avail.)					
City: MCFARLAND						State: WI						Zip Code: 53558					
Town of: COTTAGE GROVE												2207					
Street Address or Road Name and Number: WOODED RIDGE TRAIL						Subdivision Name: KENNEDY HILLS						Lot #: 6		Block #:			
County: Dane				Co. Permit #: 22-36		Notification #: 8663293210		Completed: 02-25-2022		Latitude / Longitude in Decimal Degree (DD): 43.0919 °N -89.1768 °W		Method Code: GPS008					
Well Constructor (Business Name): SAM'S WELL DRILLING INC				Lic. #: 370		Facility ID # (Public Wells):		Well Plan Approval #		NW NE Section Township Range		or Govt Lot # 10 7 N 11 E					
Address: PO BOX 150 N9935 PLEASANT RD RANDOLPH WI 53956						Approval Date (mm-dd-yyyy)						2. Well Type: New Well		of previous unique well # constructed in			
Hicap Permanent Well #				Common Well #		Specific Capacity: 0.6		Reason for replaced or reconstructed well ?		Construction Type: Drilled							
3. Well serves: 1 # of HOME						Hicap Well ? No		Private, potable		Hicap Property ? No		Heat Exchange ___ # of drillholes		Hicap Potable ? No			
<b>4. Potential Contamination Sources - ON REVERSE SIDE</b>																	
<b>5. Drillhole Dimensions and Construction Method</b>						<b>8. Geology</b>											
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)											
<b>6. Casing, Liner, Screen</b>						<b>9. Static Water Level</b>				<b>11. Well Is</b>							
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		<b>10. Pump Test</b>		Developed ? Yes					
										Pumping level 80 ft. below surface		Disinfected ? Yes					
										Pumping at 12 GP M for 1 Hrs.		Capped ? Yes					
										Pumping Method ? Airlift							
<b>7. Grout or Other Sealing Material</b>						<b>12. Notified Owner of need to fill &amp; seal ?</b>						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		98		20 S											
<b>13. Constructor / Supervisory Driller</b>				<b>Lic #</b>		<b>Date Signed</b>											
JVJG				6026		02-28-2022											
<b>Drill Rig Operator</b>				<b>Lic or Reg #</b>		<b>Date Signed</b>											
JH				8628		02-25-2022											

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 KENNEDY HILLS			Lot # 12	Block #				
Well Constructor (Business Name) SAM'S WELL DRILLING INC			Lic. # 370	Facility ID # (Public Wells)		Latitude / Longitude in Decimal Degree (DD) 43.0926 °N -89.1769 °W			Method Code GPS008			
Address PO BOX 150 N9935 PLEASANT RD RANDOLPH WI 53956			Well Plan Approval #		NW NE Section Township Range or Govt Lot # 10 7 N 11 E			2. Well Type New Well				
Hicap Permanent Well #	Common Well #	Specific Capacity 0.4		Approval Date (mm-dd-yyyy)		of previous unique well #			constructed in			
Hicap Well ?	No	Reason for replaced or reconstructed well ?		Construction Type Drilled								
3. Well serves 1 # of HOME	Private, potable	Heat Exchange ___ # of drillholes	Hicap Property ?	No	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	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 ?						
Method TREMIE PIPE - PUMPED						No						
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 <b>BURKE, ROB &amp; SHERRI</b>				Phone #		1. Well Location				Fire # (if avail.)							
Mailing Address <b>616 OAK ST</b>						Town of <b>COTTAGE GROVE</b>											
City <b>COTTAGE GROVE</b>				State <b>WI</b> Zip Code <b>53527</b>		Street Address or Road Name and Number <b>4500 KENNEDY</b>											
County <b>Dane</b>		Co. Permit # <b>19911</b>		Notification # <b>07-20-2001</b>		Subdivision Name				Lot # <b>2</b> Block #							
Well Constructor (Business Name) <b>WEBSTER BRAD &amp; SONS DRILLING INC</b>				Lic. # <b>6574</b>		Latitude / Longitude in Decimal Degree (DD)				Method Code							
Address <b>N2323 PINE HOLLOW RD POYNETTE WI 53955</b>				Well Plan Approval #		<b>43.0952 °N -89.179 °W</b>				<b>GCD013</b>							
Hicap Permanent Well #				Common Well #		SW SE Section Township Range or Govt Lot # <b>3 7 N 11 E</b>				Reason for replaced or reconstructed well ?							
3. Well serves <b>1 # of</b>				Hicap Well ? <b>No</b>		2. Well Type <b>New Well</b>				of previous unique well # constructed in							
Private, potable				Hicap Property ? <b>No</b>		Construction Type <b>Drilled</b>				Reason for replaced or reconstructed well ?							
Heat Exchange ___ # of drillholes				Hicap 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.)	
<b>8.8</b>		<b>Surface</b>		<b>80</b>		<b>Yes</b>		<b>No</b>		- Y -		<b>SAND &amp; GRAVEL</b>		<b>Surface</b>		<b>38</b>	
<b>6</b>		<b>80</b>		<b>160</b>		<b>No</b>		<b>Yes</b>		- S N -		<b>SOFT SANDSTONE</b>		<b>38</b>		<b>42</b>	
						Rotary - Air & Foam				- N H		<b>SANDSTONE &amp; SHALE</b>		<b>42</b>		<b>78</b>	
						Drill-Through Casing Hammer				- N -		<b>SANDSTONE</b>		<b>78</b>		<b>160</b>	
						Reverse Rotary											
						Cable-tool Bit ___ in. dia.											
						Dual Rotary											
						Temp. Outer Casing ___ in. dia											
						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.)		<b>76 ft. below ground surface</b>				<b>18 in. above grade</b>			
<b>6</b>		<b>IPSCO A53B .280 WALL PE</b>				<b>Surface</b>		<b>80</b>		10. Pump Test				Developed ? <b>Yes</b>			
										<b>Pumping level 105 ft. below surface</b>				Disinfected ? <b>Yes</b>			
										<b>Pumping at 12 GP M for 2 Hrs.</b>				Capped ? <b>Yes</b>			
										Pumping Method ?							
7. Grout or Other Sealing Material						12. Notified Owner of need to fill & seal ?											
Method <b>PRESSURE TREMIE</b>						Filled & Sealed Well(s) as needed? <b>No</b>											
Kind of Sealing Material		From (ft.)		To (ft.)		# Sacks Cement		NONE									
<b>NEAT CEMENT</b>		<b>Surface</b>		<b>80</b>		<b>15 S</b>		13. Constructor / Supervisory Driller									
								<b>BW</b>		Lic #		Date Signed					
								<b>DW</b>		Lic or Reg #		Date Signed					
												<b>07-28-2002</b>					
												<b>07-28-2002</b>					

Southern Court, 1972, 3  
pump level 70' below

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

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