

664849

County Douglas
Quad Alexandria
Quad ID 180A

MINNESOTA DEPARTMENT OF HEALTH
WELL AND BORING REPORT
Minnesota Statutes Chapter 1031

Entry Date05/22/2002
Update Date11/08/2021
Received Date

Well Name HARTNESS,	Township 128	Range 37	Dir Section W 15	Subsection BDBCAB	Well Depth 104 ft.	Depth Completed 104 ft.	Date Well Completed 12/20/2002																																														
Elevation 1391	Elev. Method LiDAR 1m DEM (MNDNR)	Drill Method Non-specified Rotary				Drill Fluid Bentonite																																															
Address Contact8422 S. UNION LAKE DR SE ALEXANDRIA MN 56308					Use domestic			Status Active																																													
Stratigraphy Information <table><tr><td>Geological Material</td><td>From</td><td>To (ft.)</td><td>Color</td><td>Hardness</td></tr><tr><td>TOP SOIL</td><td>0</td><td>1</td><td>BLACK</td><td>SOFT</td></tr><tr><td>SAND</td><td>1</td><td>22</td><td>BROWN</td><td>SOFT</td></tr><tr><td>CLAY</td><td>22</td><td>43</td><td>BROWN</td><td>MEDIUM</td></tr><tr><td>CLAY</td><td>43</td><td>59</td><td>GRAY</td><td>MEDIUM</td></tr><tr><td>SAND</td><td>59</td><td>62</td><td>BROWN</td><td>SOFT</td></tr><tr><td>CLAY</td><td>62</td><td>78</td><td>TAN</td><td>MEDIUM</td></tr><tr><td>CLAY</td><td>78</td><td>91</td><td>GRAY</td><td>MEDIUM</td></tr><tr><td>SAND</td><td>91</td><td>104</td><td></td><td></td></tr></table>					Geological Material	From	To (ft.)	Color	Hardness	TOP SOIL	0	1	BLACK	SOFT	SAND	1	22	BROWN	SOFT	CLAY	22	43	BROWN	MEDIUM	CLAY	43	59	GRAY	MEDIUM	SAND	59	62	BROWN	SOFT	CLAY	62	78	TAN	MEDIUM	CLAY	78	91	GRAY	MEDIUM	SAND	91	104			Well Hydrofractured? Yes ☐ No ☒ From To			
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Casing Type Single casing				Joint Unknown																																																	
Drive Shoe? Yes ☐ No ☒ Above/Below																																																					
Casing Diameter 4 in. To 100 ft.				Weight lbs./ft.		Hole Diameter 8 in. To 100 ft.																																															
Open Hole <table><tr><td>From</td><td>ft.</td><td>To</td><td>ft.</td></tr><tr><td>Screen? ☒</td><td>Type telescoping</td><td colspan="2">Make COOK</td></tr><tr><td>Diameter</td><td>Slot/Gauze</td><td>Length</td><td>Set</td></tr><tr><td>4 in.</td><td>15</td><td>4 ft.</td><td>100 ft.</td></tr></table>								From	ft.	To	ft.	Screen? ☒	Type telescoping	Make COOK		Diameter	Slot/Gauze	Length	Set	4 in.	15	4 ft.	100 ft.																														
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Static Water Level 29 ft. land surface Measure 12/20/2002																																																					
Pumping Level (below land surface) 104 ft. 2 hrs. Pumping at 150 g.p.m.																																																					
Wellhead Completion Pitless adapter manufacturer MAASS Model GRADE A ☐ Casing Protection ☐ 12 in. above grade ☐ At-grade (Environmental Wells and Borings ONLY)																																																					
Grouting Information Well Grouted? ☒ Yes ☐ No ☐ Not Specified Material Amount From To bentonite 0 ft. 30 ft.																																																					
Nearest Known Source of Contamination feet Direction Type Well disinfected upon completion? ☐ Yes ☐ No																																																					
Pump ☐ Not Installed Date Installed 04/09/2002 Manufacturer's name AERMOTOR Model Number T12-50 HP 0.5 Volt 230 Length of drop pipe 60 ft Capacity g.p. Typ Submersible																																																					
Abandoned Does property have any not in use and not sealed well(s)? ☐ Yes ☒ No																																																					
Variance Was a variance granted from the MDH for this well? ☐ Yes ☒ No																																																					
Miscellaneous First Bedrock Aquifer Quat. buried Last Strat sand Depth to Bedrock ft Located by Minnesota Geological Survey Locate Method Digitization (Screen) - Map (1:24,000) (15 meters or System UTM - NAD83, Zone 15, Meters X 320055 Y 5085442 Unique Number Verification Tax Records Input Date 10/27/2021																																																					
Angled Drill Hole																																																					
Well Contractor Steven M. Traut Wells Inc. 21733 JOHN/CHRIS Licensee Business Lic. or Reg. No. Name of Driller																																																					