

642879

County St. Louis
Quad Fredenburg
Quad ID 244B

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

Entry Date 06/01/2001
Update Date 02/27/2019
Received Date

Well Name TORKELSON,	Township 51	Range 14	Dir Section W 8	Subsection ADAACC	Well Depth 34 ft.	Depth Completed 32 ft.	Date Well Completed 10/16/2000		
Elevation 1396	Elev. Method LiDAR 1m DEM (MNDNR)					Drill Method Non-specified Rotary	Drill Fluid Water		
Address C/W 5651 POULIN RD DULUTH MN 55803					Use domestic	Status Active			
Stratigraphy Information Geological Material From To (ft.) Color Hardness CLAY/GRAVEL 0 16 BROWN MEDIUM CLAY 16 30 RED/BRN MEDIUM GRAVEL 30 32 VARIED MEDIUM					Well Hydrofractured? Yes ☐ No ☒ From To				
					Casing Type Single casing Joint Welded				
					Drive Shoe? Yes ☒ No ☐ Above/Below 2 ft.				
					Casing Diameter 6 in. To 32 ft. Weight 18.97 lbs./ft. Hole Diameter 10 in. To 10 ft.				
					Open Hole From 32 ft. To 32 ft.				
					Screen? ☐ Type Make				
					Static Water Level 11 ft. land surface Measure 10/16/2000				
					Pumping Level (below land surface) 20 ft. 3 hrs. Pumping at 15 g.p.m.				
					Wellhead Completion Pitless adapter manufacturer Model ☐ 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 4 Sacks 0 ft. 10 ft.				
					Nearest Known Source of Contamination 200 feet Southeast Direction Septic tank/drain field Type Well disinfected upon completion? ☐ Yes ☐ No				
					Pump ☒ Not Installed Date Installed Manufacturer's name Model Number HP Volt Length of drop pipe ft Capacity g.p. Typ				
					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 gravel (+larger) Depth to Bedrock ft Located by Minnesota Geological Survey Locate Method Digitization (Screen) - Map (1:12,000) (>15 meters) System UTM - NAD83, Zone 15, Meters X 565945 Y 5196568 Unique Number Verification Tax Records Input Date 05/12/2016				
					Angled Drill Hole				
					Well Contractor Aqua Systems 69438 MADISON, D. Licensee Business Lic. or Reg. No. Name of Driller				
					Remarks				