



Part of the Cotuit Fire District (chartered 1926)

Water Department established in 1936 – office and first well on Rt 28

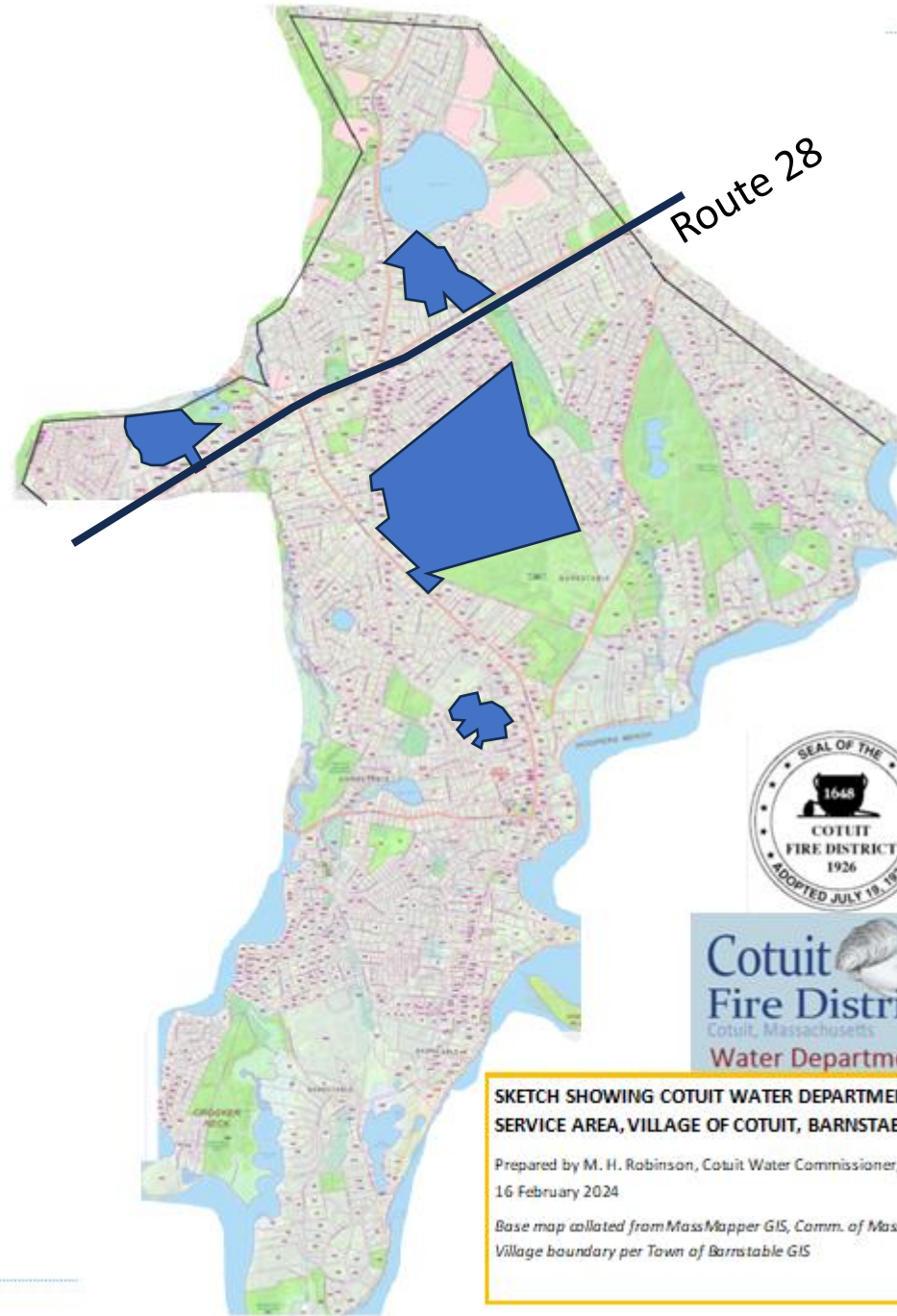
Governed by three elected Water Commissioners who set water rates

Staff includes Superintendent (38 years experience!), 2 Sr Operators, 1 Jr Operator, and Office Manager *par excellence!*

Annual operating budget is about \$850,000, funded by excess water revenues, CVEC credits and cell tower leases.



The Water Department controls 244 acres of land, 120 acres of it in the main wellfield behind Mosswood Cemetery.



There are 2,350 households and businesses served via 53 miles of water mains throughout the village.



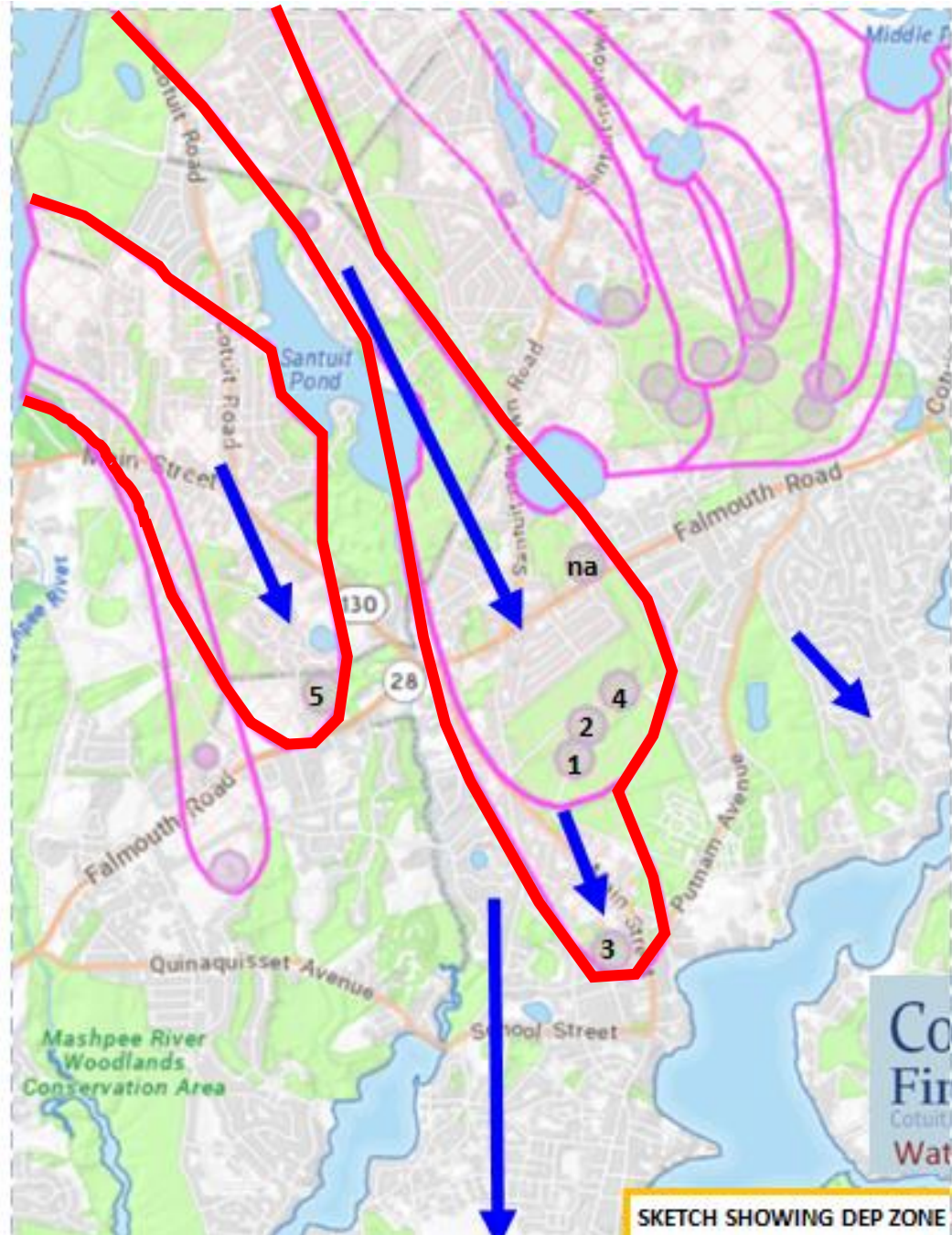
SKETCH SHOWING COTUIT WATER DEPARTMENT SERVICE AREA, VILLAGE OF COTUIT, BARNSTABLE MA

Prepared by M. H. Robinson, Cotuit Water Commissioner,
16 February 2024

*Base map collated from MassMapper GIS, Comm. of Mass.;
Village boundary per Town of Barnstable GIS*



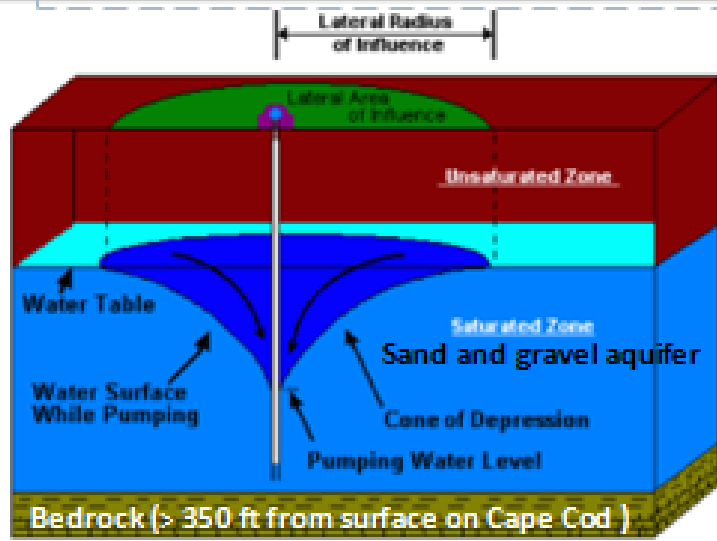
Cotuit's five public supply wells have recharge areas that stretch northwest into Marstons Mills, Mashpee and even Sandwich.



We have 5 wells that are treated for disinfection and corrosion control on site and 2 (newer) elevated storage tanks.

No treatment facility.

All water quality standards are met.

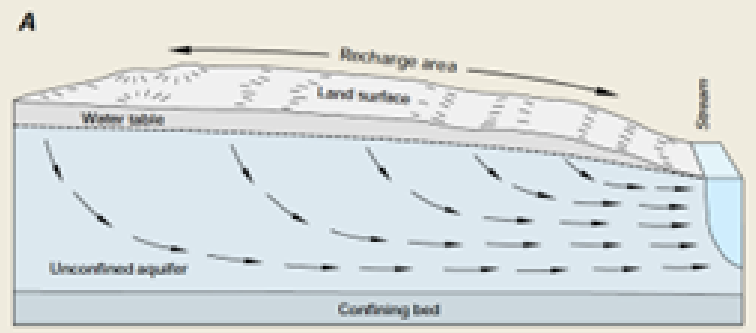


Without cone of depression

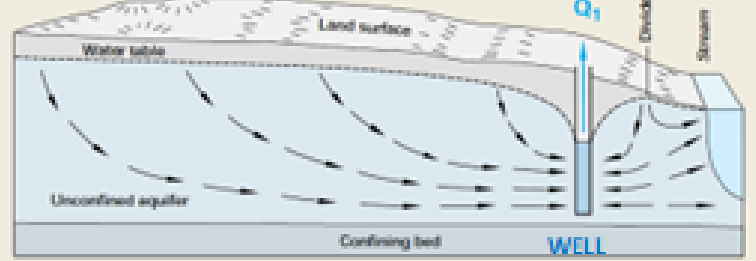
<https://a3e.com/wellhead-protection-area-sample-report/>

SKETCHES SHOWING GROUNDWATER MOVEMENT TOWARDS PUMPING WELLS

In Cotuit, groundwater moves about 3-4 feet per day towards Nantucket Sound (i.e., north to south)



The 5 Cotuit Water Dept. wells intercept slices of the groundwater flow, but remainder reaches the Sound



U.S. Geological Survey



In the past four years, we have emphasized water conservation by two main policies:

- Establishing very high rates for heavy water users (50% of summer demand is for private lawn irrigation)
- Banning new private irrigation systems hooked to the public water supply (82 new wells have been installed for home irrigation, 80% outside of our Zone II)

Water Rates

The following rates are currently in effect:

Minimum Bill: \$40.00 for the first 10,000 GAL.

Excess Bill:

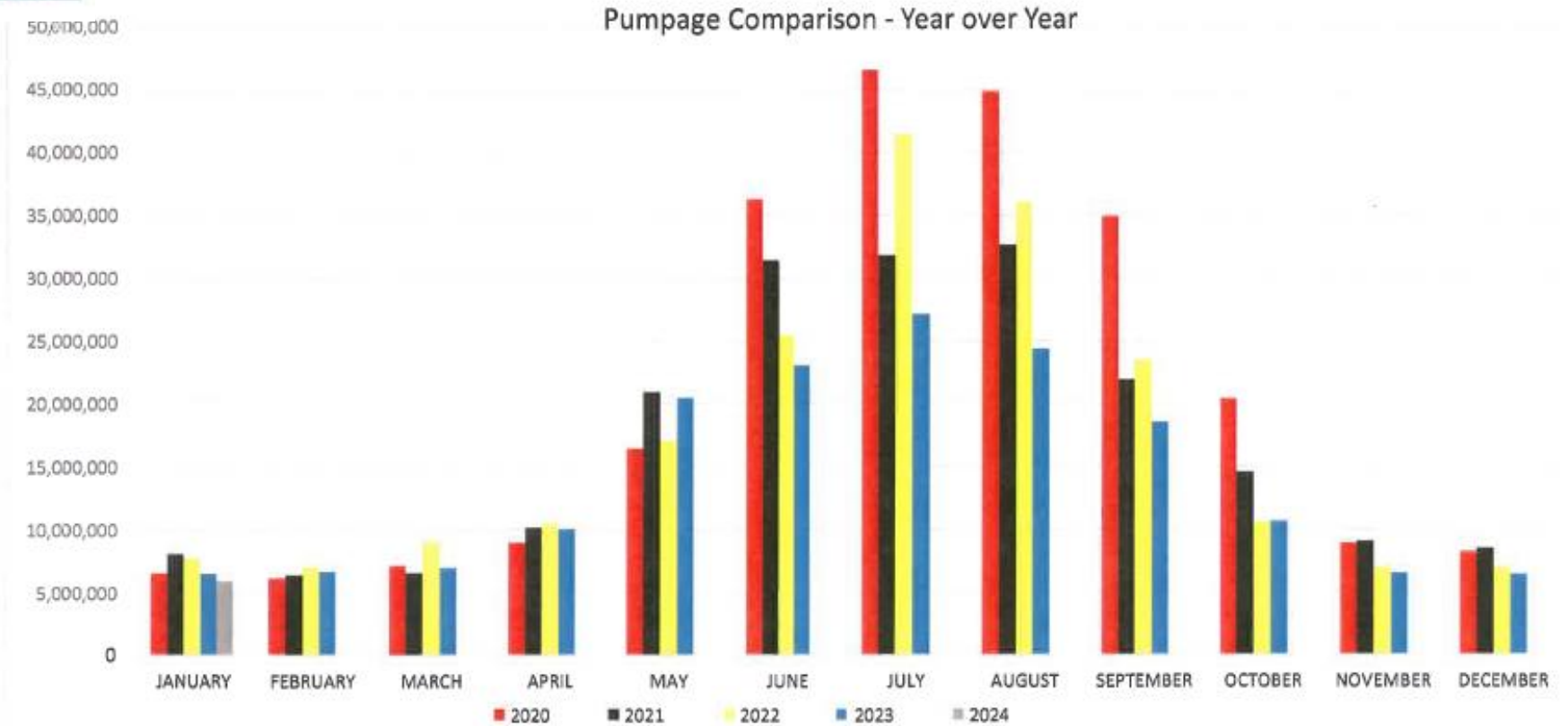
Water used over 10,000 gallons is billed at the following rates:

- Water used 10,001 – 20,000 gallons: \$4.00/per 1000 gallons
- Water used 20,001 – 40,000 gallons: \$5.50/per 1000 gallons
- Water used 40,001 – 60,000 gallons: \$7.15/per 1000 gallons
- Water used 60,001 – 100,000 gallons: \$15.00/per 1000 gallons
- Water used 100,001 – 200,000 gallons: 20.00/per 1000 gallons
- Water used over 200,000 gallons: \$30.00/per 1000 gallons



The effect so far has been to lower our pumping volumes by as much as 40% in summer months.

(Rainfall and drought are factors as well.)





CONCERNS:

- 1. Source Water Protection – we would like to investigate enhancing septic system treatment closest to our main wellfield; need special act of the legislature to work with private landowners.**
- 2. Water treatment – with town sewer unlikely in the next 20-30 years in western Barnstable, will we need expensive treatment facility.**
- 3. Aging water mains – piecemeal upgrades, one segment underway.**
- 4. Affordability – 2024 proposal to shift more costs from small volume users to higher ones**