

- Martin Street from Whitney Street to Gibson Street
- Fox Hill Road/Westwood Street intersection machine berm sidewalks
- Bedford Street new driveway at the Bedford Street Sewer Station
- Town Hall machine berm in the parking lot
- Human Resource Building machine berm and sidewalk
- Chestnut Hill Cemetery paved three roadways
- Pine Glen School new parking area along side of building
- Burlington High School paved new section of student parking lot

Painting was done at the following locations:

- High School, Marshall Simonds, Pine Glen, Fox Hill, and Francis Wyman all curbing and crosswalks and handicap parking areas.
- All parking spaces at the Police and Fire Stations, the Library, and the Human Resource Building.

The Highway Division responded to 7 gasoline and oil spills.

One new employee was added to the division. Michael Minichiello was hired as a Special Equipment Operator.

I would like to take this opportunity to thank all of the employees of the division for a job well done and a special thank you for all employees who assisted the Highway Division during the snowplowing season.

Respectfully Submitted,

William Bannon
Assistant Superintendent

WATER AND SEWER UTILITIES DIVISION

With the new millennium upon us, we look back at 1999 with a feeling of satisfaction and pride. This was a good year, which included the continued growth of the industrial sector of Burlington, natural happenings such as the shortage of rain, and the coming on-line of the Vine Brook Ground Water Treatment Plant. Problems were met head on and solved, and we expect to continue in this vein. With the same hard work and support, the Water and Sewer Utilities Division is ready to take on any task to produce a safe and healthy system. The following is a summary of projects and statistics completed by the Water and Sewer Utilities Division.

SPECIAL PROJECTS

Bedford Street Sewer Station

A new sewer station was installed at Bedford Street with all new pumps, controls, valves and piping. Sewer personnel removed all pumps, piping and controls from the old station and assisted in adjustments to the new station.

Installation of a New Diesel Gas Tank at Terrace Hall Avenue

A cement pad and wooden shed was built to house and protect the diesel tank. This work was accomplished by Sewer Personnel.

Chemical Feed Pump at Francis Wyman Sewer Station

A wooden shed was built and a chemical feed pump and tanks were installed to treat raw sewage before pumping sewage back into the system. This will eliminate odor and corrosion problems.

Terrace Hall Avenue Sewer Station Pump Repairs

- # 1 Pump. Motor was overhauled and new impeller was installed.
- # 2 Pump. Motor was overhauled and new wear rings installed.
- # 4 Pump. 200 HP pump was installed.

Brookside Sewer Station

Installed two 20 HP motors, pumps, and valves. Sewer personnel accomplished this work.

Auxiliary Generators

We removed a 12.5 KW generator from the Wildwood School and mounted it on a trailer to handle power problems at sewer locations. We also purchased two 60 KW generators. One we mounted on a trailer and the other was mounted permanently at the Belmont Road Sewer Station.

Water Truck Restoration

When the old W-2 was retired from service, the Sewer Division restored it to be used as a spare. Shortly thereafter, W-6 was retired due to major maintenance problems, and W-2 was returned to service.

Storage Area in Water Garage

Division personnel built a storage area in the Water Garage to house fittings and piping used for pumps. This storage area was built above the pumps to keep everything together.

Respectfully Submitted,

Patrick L. Mustoe
Assistant Superintendent

WATER TREATMENT PLANT

There has not been a more exciting year since the start-up of the Mill Pond Water Treatment Plant. The Vine Brook Water Treatment facility was placed on line in late April just in time for the driest summer I can remember. The new facility is a state of the art ground water facility that now treats all ground water sources with a maximum output of 4 million gallons within a 24-hour period. The water from this facility is free of volatile organic compounds that for years have plagued the ground water well due to contamination in the Northwest Industrial Park and south side of Route 128. The facility will also remove inorganics such as iron and manganese.

The summer of 1999 was one of the driest on record. While the Mill Pond was full at the start of the year, the reservoir dropped to a record low of 32 feet. This resulted in a mandatory water ban restricting use to only essential purposes. The Vine Brook Facility was used in the latter part of the summer to give the Mill Pond a rest. The Town of Burlington was fortunate to have both sources or we would have relied on supplemental water from the Massachusetts Water Resources Authority.

The town continued its water system improvements with the replacement of the section that caused so much concern when it broke two years ago and made national headlines. The other areas were near the Fox Hill School and an area off Wilmington Road. The water quality and hydraulics seem to have improved greatly.

With the Vine Brook Facility on line, preparations for improvements and system upgrades at the Mill Pond Plant were started in late 1999. It is expected that these projects will be completed in mid 2000. The following will be completed:

- Clearwell baffling. This will improve contact time between filtered water and save on chlorine usage.
- Installation of an Ammonia System for chloramine production. This will control Trihalomethane (THM) formation. THM's are under close scrutiny by the EPA.
- The installation of a Supervisory Access and Data Acquisition System (SCADA) so that both plants can communicate with each other.
- Improved ventilation system for the clear well.
- Repair and improvement to the reservoir aeration system.
- Repairs to the intake screen structure at the reservoir.

The first Consumer Confidence Report was printed in 1999. The Federal EPA through the Safe Drinking Water Act mandated this project. Intentions are to publish this twice a year to improve consumer confidence and customer service.

1999 was marked as a year of new initiatives and further improvements to the water system. Since the Vine Brook Facility went on line, we have received many compliments from homeowners and commercial users. The continued flushing of the system will improve water quality by removing sediment built up from years of no treatment. The Water Treatment Plant is proud of our goal of delivery of quality water to the Town of Burlington.

Respectfully Submitted,

William Keene
Plant Manager