

SECTION 1 – EXECUTIVE SUMMARY

1. The Village of Paw Paw, Michigan owns and operates a Community Water System, Water Supply Serial Number WSSN 5210.
2. The Village maintains a bacterially safe water supply system. The wells are inspected annually by Peerless-Midwest, Inc. and are appropriately maintained on a regular basis.
3. The Village of Paw Paw must fulfill the requirements of Part 12 of the Administrative Rules of Act 399, PA 1976 (Michigan Safe Drinking Water Act). A Reliability Study is required every five years unless this requirement is waived by the MDEQ. The following is a summary of the items required for the Reliability Study. Data is based on Village of Paw Paw Monthly Operating Reports from January 2009- August 2015.

Table 1-A: Demand Summary

	Present (2014)	5-Year Projection	20-Year Projection
Average Daily Demand (mgd)	0.357	0.361	0.368
Maximum Daily Demand (mgd)	0.698	0.706	0.719
Maximum Hourly Demand (mgal) ^a	1.429	1.445	1.472

^afactor of 4.0 used

4. The Village is required to provide firm capacity from an approved groundwater supply and finished water storage in excess of the established normal waterworks system requirements. Firm capacity is defined as the flow with the largest producing well out of service. The Village capacity is as follows:

Table 1-B: Capacity Summary

Projected Maximum Daily Demand	0.719 mgd (499 gpm)
Firm Capacity (Well #8 in service)	2.14 mgd (1,490 gpm)
Percent of Firm Capacity	33.6%
Fire Flow -- Commercial	2,500 gpm
Total Flow	2,999 gpm
Fire Duration	120 minutes (2 hrs)
Total Storage Capacity Required	359,880 gallons
Total Storage Capacity Provided	500,000 gallons



The MDEQ recommends additional capacity be considered when demands exceed 80% of firm capacity. Therefore, the Village has adequate supply and storage capacity to meet projected demands. Capacity is also available to sustain additional growth.

5. There are 1,105 meters in the village system that measure water usage for residential, commercial, industrial, and governmental customers. There are 863 residential meters, 188 commercial meters, 4 industrial meters, 5 municipal meters, and 45 other (tax exempt) meters.
6. The existing distribution system can adequately handle existing and projected average and maximum daily flows.
7. The Village currently maintains an aging distribution system adequate for normal (non-emergency) system conditions with areas of undersized mains limiting firefighting capabilities. A total of 12% of the system is served with 4" mains which do not meet current standards for fire flow.
8. Upgrading some mains in the downtown area would improve firefighting capabilities in the commercial district.

