

APPENDIX D – VOLUME 2

PUMP STATION CONDITION ASSESSMENT

In December 2015, MSA conducted site visits with City of Grants Pass staff, and documented the condition of existing water system pump stations. Field visit notes and photos for each pump station facility are presented herein. All 13 pump stations boosting water to higher level pressure zones in the distribution system were visited and assessment of the condition of the facility was made. The assessment focused on the physical structure housing the mechanical and electrical systems, pumping systems, standby power availability, status and flow metering.

Each of these components was given a Condition rating ranging from 1 (very good) to 5 (very poor) and a Criticality rating ranging from 1 (not critical) to 4 (critical, pump station could not operate upon failure). Rating definitions are summarized in the table below. Issues with each of the components were documented, and then the Condition and Criticality ratings were used to prioritize improvements to address identified issues. An additional rating, Serviceability, was identified as further criteria that the City could use to manage and prioritize the investment in these individual components at each station in the future. Where data was available to provide an assessment of Serviceability, the rating was included. City staff will input additional Serviceability ratings in the future as equipment is maintained and data can be gathered.

Major issues noted at each pump station, based on a poor Condition rating and a high Criticality rating, include:

- **Madrone Pump Station** – structural review recommended to assess building settlement
- **Champion Pump Station** – isolation valves and control valves need replacement – Pumps 1 and 2
- **Lawnridge Pump Station**
 - structural review recommended for building
 - replace failing rubber bellows
 - install discharge isolation valving
- **New Hope Pump Station** – repair or replace inoperable exhaust fans
- **Multiple Stations** – repair or replace existing inoperable flow meters at six pump stations