APPROVED BY BOARD OF TRUSTEES – MAY 8, 2018

TITLE 1 - CHAPTER 6 - ADMINISTRATIVE POLICIES AND PROCEDURES WATER SOURCE DEVELOPMENT PLAN

1.6.1. PURPOSE

This shall be known as the Kearns Improvement District ("District") Water Source Development Plan (the "Plan"). As the population along the Wasatch Front increases, ever increasing demands are placed upon available water sources. The Plan is intended to provide guidance as the District meets the future water demands of its customers.

1.6.2. BACKGROUND

A majority of the water supplied by the District to customers is purchased from the Jordan Valley Water Conservancy District (the "Conservancy District"). The balance of the District's water supply comes from deep wells. The District is not optimistic about its ability to develop significant quantities of additional groundwater for culinary use due both to quantity and quality considerations. According to two separate studies conducted by private consultants and an on-going analysis by the District's staff, the availability of high quality water in western Salt Lake County is minimal, and water which may be developed at a modest cost is not of sufficient quality to justify its development for use in a culinary water system. The District has sufficient water rights to develop an additional three cubic feet per second ("cfs") of groundwater. Due to the foregoing considerations, however, it is not anticipated that significant groundwater sources will be developed for culinary use in the immediate future. Such development is not likely to occur until technology allows cost effective treatment or until increases in the cost of water purchased from the Conservancy District make development and treatment of new groundwater sources cost effective.

1.6.3. AVAILABLE WATER

The District has developed a system of twelve deep water wells to augment other water supplies. The District contracts to purchase finished water from the Conservancy District. That purchase commitment may be increased should the need arise as additional development takes place within the District. The District also has groundwater development capacity for an additional 2,000-acre foot of water per year.

1.6.4. SECONDARY WATER SYSTEM

A. **Reducing Demand for Culinary Water:** As an alternative to developing new culinary water sources, the District has investigated the feasibility of reducing its customers' demand for culinary water. The alternative that appears to have the greatest potential to reduce culinary water deliveries to the District's customers, thereby eliminating or postponing the development of additional culinary water sources, is the installation of a secondary water system for outdoor use. A secondary water system could significantly reduce the culinary water needs of the District.

B. **Secondary Water Sources:** The District may develop lower quality groundwater for secondary (irrigation) use. Other potential water sources for use in a secondary water system include "leasing" surplus water from Kennecott, using canal water, using aquifer storage and recovery, using scalping techniques, utilizing highway storm water runoff, and/or utilizing Central Valley Water Reclamation Facility treated effluent water. Over the years, the District has acquired some irrigation company stock and may acquire additional stock as it becomes available at reasonable prices. At present, none of these secondary alternatives is feasible, but that may change in the future.

1.6.5. FUTURE WATER NEEDS

It is anticipated that water available in the foreseeable future from one or a combination of the sources outlined above (water purchased from the Conservancy District; water taken from wells; and secondary system water consisting of well water, effluent water, storm water, canal water and/or leased water) will be sufficient to satisfy the District's demands for the foreseeable future. The District will, however, continue to monitor the availability of culinary and secondary water sources and develop such sources as they become cost effective.

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4818-1388-9048, v. 4