

## **El Dorado Irrigation District**

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### **Attachment to Supplemental Statement of Water Diversion and Use**

**Statement Number: S014969**

The East Diamond Ditch portion of the Crawford Ditch system has a diversion capacity of 0.5 cfs continuously year-round. However, natural flows of Squaw Hollow Creek are augmented by water from Clear Creek segment of Crawford Ditch, which enters Squaw Hollow Creek prior to its redirection at the East Diamond Ditch Diversion, and is made up of water covered by pre-1914 rights S013501 and S013502, a pre-1914 right on Camp Creek and License 011835 and 011836. Squaw Hollow Creek natural flows generally exceed 0.5 cfs from mid-October to mid-June, which form the basis for the reporting under this right.

The District is proposing an alternative compliance plan for measuring this diversion because installation of a measurement device at this location is infeasible due to the lack of power and signal communication lines at this diversion site. Under the proposed plan, the District would rely upon historical observations, as well as on-going observations, regarding water flow conditions in Squaw Hollow Creek upstream of the East Diamond Ditch. The District staff patrol the East Diamond Ditch three (3) times per week and perform inspections of water levels and water flow conditions. Historical observations show that Squaw Hollow Creek natural flows generally exceed the 0.5 cfs capacity of the East Diamond Ditch from mid-October to mid-June. Historical observations show that Squaw Hollow Creek typically has very limited, if any, natural flow outside of the mid-October to mid-June period, and therefore, the District estimates that no passive diversion of Squaw Hollow Creek water into the ditch occurs outside the mid-October to mid-June period. When natural flows are in excess of 0.5 cfs, the District estimates the passive diversion is equal to the capacity of the ditch, which is 0.5 cfs. The District therefore has a starting estimate of a diversion of 0.5 cfs during the mid-October to mid-June period. Under the alternative compliance plan, the District will verify this estimate by visual observations, performed on a schedule of approximately three (3) times per week.

The infeasibility of a stream gage for this passive diversion, due to lack of power and signal communication lines at this diversion site, results in the District being unable to strictly comply with the performance standards contained in 23 C.C.R. sections 933 and 934. Specifically, the District cannot satisfy the data and accuracy requirements contained in section 933 because

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there is no feasible measuring device that can be installed at this location. The District's alternative compliance for data recording is to rely on historical and contemporaneous observations of stream flow to determine when natural flows exceed the capacity of the ditch, and therefore utilize the ditch capacity to determine the volume of water passively diverted. The District also cannot strictly comply with the measurement method requirements contained in section 934 because the method of using a combination of stream flow observations and ditch capacity to estimate diversion is unlikely to meet the accuracy requirements of section 934(e). The District developed the alternative compliance plan in a manner that utilizes available information about stream flow and ditch capacity. Therefore, the accuracy of the estimated diversion is limited by the accuracy of the estimated stream flow conditions, based on historical and on-going visual observations of water flows.