

## **Appendix F: Groundwater Monitoring Plan**

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## GROUNDWATER MONITORING PLAN FOR THE CRESCENT DUNES PRODUCTION WELL

### I. INTRODUCTION

The Crescent Dunes Concentrated Solar Project located in Nye County, Nevada thirteen miles north of Tonopah will get its operational water supply from one of two ground water wells (one of the two wells will serve as a backup well should the primary source fail for some reason.) See pages 2-37, 38 of the Draft Environmental Impact Statement (DEIS) dated September 3, 2010 for more details.

In order to address the potential impacts of the water use over the life of the project (three [3] years of construction and a 30 year operational life cycle) the Bureau of Land Management used a numeric water model (see Section 4.5 of the DEIS for a complete analysis of the impacts projected to occur as a result of pumping the Project's production well). Numeric water models, like all models, are computer estimations of potential impacts to surrounding resources. In order to ensure the modeling predictions are accurate, a monitoring plan, based on model predictions is a requisite part of the modeling effort.

### II. MONITORING PLAN

The following monitoring plan is required of TSE in order to ensure the predicted impacts are correct; or if further modeling and potential future mitigation would be required should the current impact analysis prove inaccurate.

TSE will implement a monitoring plan that will include collecting groundwater elevations and groundwater quality samples at selected wells. Water quality samples will be analyzed for major cations and anions. The monitoring will be conducted on a quarterly basis. Depending on the results of monitoring while the plant is in operation, the schedule may be modified to sampling semiannually, in the early spring and the late fall.

Groundwater samples and water measurements will be collected on the project site using well TW 1 and, if granted access, RO Livestock, Nevada Well Log 5115 and Truckee River Ranch, Nevada Well Log 98680. If access is not granted to Truckee River Ranch, then the Nevada Department of Transportation, Millers Rest Area, Nevada Well Log 9972 will be used.

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