

## ROILING PERMIT APPLICATION

**DRN-003**

By placing my contact information (name, address, phone number, email address, etc.) on this application form and submitting it to Permit Sonoma, I understand and authorize Permit Sonoma to post the application to the internet for public information purposes, including my contact information.

Date 01/24/2024 ROI \_\_\_\_\_ Previous ROI \_\_\_\_\_

Site Address Big Sulphur Creek Rd. 38°46'23.5"N, 122°45'19.64"W

APN 141-030-036 River or Stream Big Sulphur Creek

Anticipated Work Start Date 7/15/2024 Estimated Completion Date 10/15/2024

### Type of Work

- |   |   |
|---|---|
| <input type="checkbox"/> To protect riparian property adjacent to a river or stream | <input checked="" type="checkbox"/> To perform construction work on riparian property   |
| <input type="checkbox"/> To construct recreational dams                             | <input type="checkbox"/> To construct temporary bridges, dikes, dams and settling ponds |

**Applicant** ☒ Owner ☐ Engineer ☐ Architect ☐ Contractor ☐ Other  
Name Peggie King Company Geysers Power Company, LLC

Mailing address 10350 Socrates Mine Road, Middletown, CA 95461

Phone 707-431-6097 Email peggie.king@calpine.com

Applicant Signature \_\_\_\_\_

**Additional Contact** ☐ Owner ☐ Engineer ☐ Architect ☐ Contractor ☐ Other  
Name \_\_\_\_\_ Company \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

### APPLICATION REQUIREMENTS

- A detailed statement describing the work or operations to be done and the manner in which they will be carried out to avoid unreasonably decreasing the clarity of the river or stream, including any proposed monitoring or mitigation measures.
- A location/vicinity map (8 ½ in. X 11 in.) showing where the project is located in relation to nearby lots, streets, highways and/or major natural features (e.g., locator maps & road maps).
- A copy of the Fish and Wildlife permit or waiver.
- A copy of the California Regional Water Quality Control Board water quality certification, if required.
- Reference to last roiling permit, if any.
- A check payable to "Permit Sonoma" (see current fee schedule). This fee includes any requested extensions for the calendar year.
- A copy of the California Environmental Quality Act (CEQA) document.
- A copy of any approved County permit conditions (e.g. mining approval).

### TO BE COMPLETED BY PERMIT SONOMA STAFF

Proposed Board Meeting Date \_\_\_\_\_ Fees \_\_\_\_\_

## **PROJECT DESCRIPTION- Big Sulphur Creek III Water Extraction Facility Replacement Project**

Geysers Power Company, LLC is proposing to replace a surface water intake facility on Big Sulphur Creek in the Geysers Geothermal Steam Field in Sonoma County, California.

The project is limited to removal and replacement of an existing water diversion system (BSC-III), which draws water from Big Sulphur Creek and provides injection water as part of Calpine's geothermal operation at the Geysers. The current diversion includes a screened intake that hangs from a bridge and is lowered into the channel when diverting water. Two pumps sit on the channel bank that pump the diverted water approximately 100 vertical feet uphill to an injection well. The new diversion system will include a new screen and pumping and piping system to reduce impacts to multiple aquatic species, the environment, and improve the safety and operations of the diversion.

The proposed modification consists of removing and replacing the existing diversion system with a new diversion structure meeting current regulatory design standards for an on-channel diversion. The new screen is in the same general location as the existing screen, just upstream of the bridge which will remain.

The project includes bank stabilization for construction/operation access and erosion protection due to a previous slide down-stream of the bridge. The temporary construction access will occur downstream of the bridge at the same location where the bank will be regraded. Once the instream work is complete, the bank where the temporary access road will be regraded and laid back at a lesser slope which will slightly widen the cross section of Big Sulphur Creek. The toe of the slope along the regraded section will have rock rip-rap placed per the project plans.

Multiple agency permits have been obtained including a 401 Water Quality Certification (State Water Resources Control Board), Streambed Alteration Agreement (California Department of Fish and Wildlife), Nationwide Permit (U.S. Army Corps of Engineers), Sonoma County Riparian Corridor Permit and a Sonoma County Grading Permit. The project will be conducted in compliance with these permits and will avoid unreasonably decreasing the clarity of Big Sulphur Creek. Monitoring is required by the 401 Water Quality Certification. In addition, Sheet C-502 in the submitted construction drawings for the Grading Permit titled "Dewatering Details" shows the isolated work area after the temporary clear water diversion detail plan is implemented. Construction work will not be conducted in an active waterway. This clear water diversion plan has been reviewed by agencies that have issued project permits.