

May 14, 2019

## **Lower Mokelumne River Fish Screen Projects**

### **ADDENDUM NO. 2**

#### **TO PROSPECTIVE PROPOSERS,**

Notice is hereby given that the **Lower Mokelumne River Fish Screen Projects** (RFP) has been revised as follows:

#### **REVISED SITE 3 DESCRIPTION**

1. RFP Section I.C.2 - Project Site Information (Page 5) – **DELETE** the text under Site 3 in its entirety and **REPLACE** with the following text:

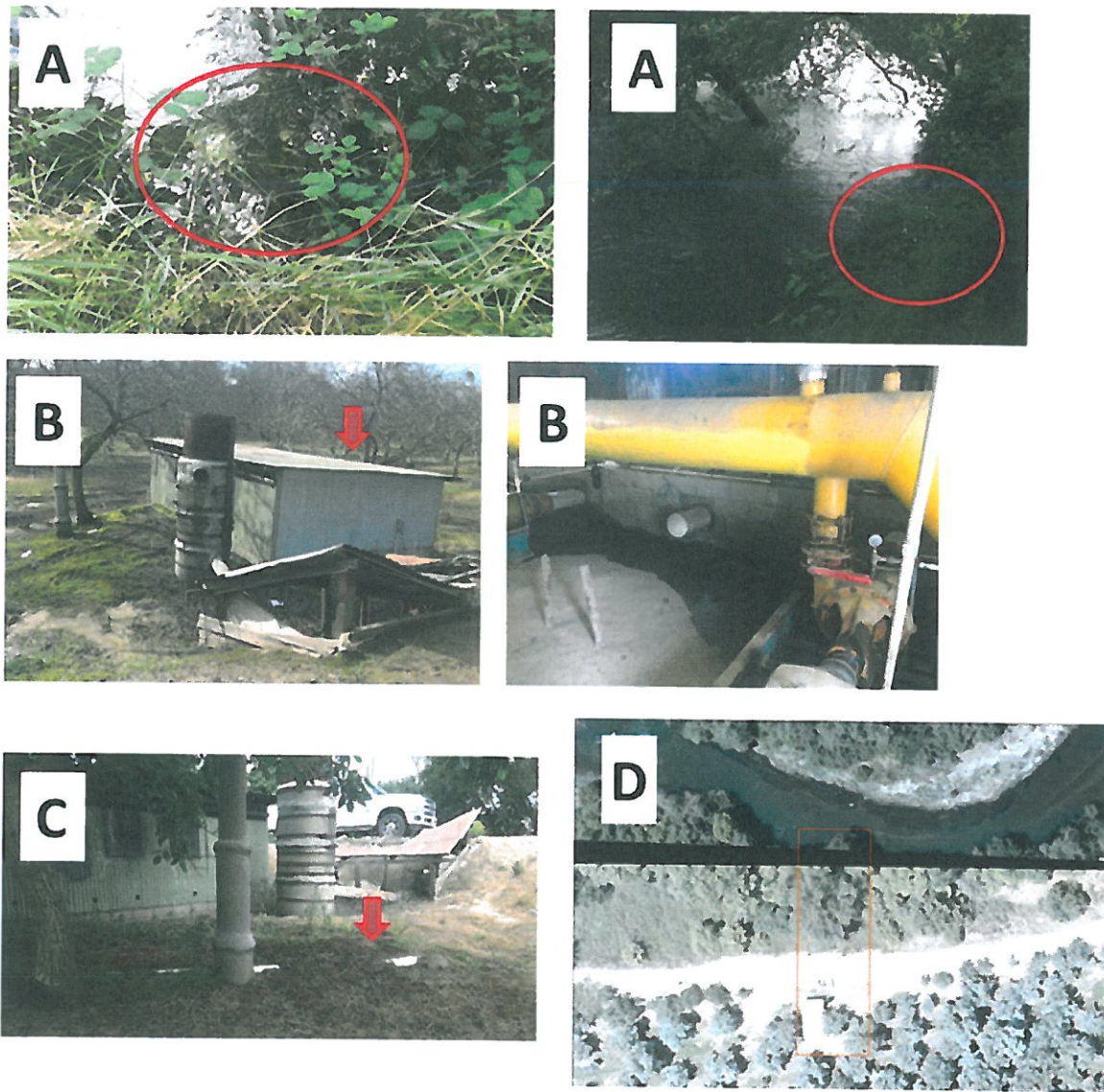
“Site 3 is located on the south side of the lower Mokelumne River at river mile 55 near Elliott Road (Figure 1). The site is accessed from Highway 12/88 through private property containing a series of locked gates. A slant pump is currently operated at this site along a levee road with a steep vegetated embankment. The maximum pumping rate at this diversion is 2,000 GPM. The pump station draws water directly from the river using two intakes. At higher than average base flows (567 cfs), the water depth adjacent to the intakes is approximately 5.2 ft. The diversion intakes are located roughly 0-6 inches above the river bottom. Each pipe is approximately 8 inches in diameter. The top of the river bank and the pump motor are located above flood elevation and accessible at all times. The pump station may be operated year-round, but the months of operation generally range from April through October.

The riverbed substrate below and adjacent to the intake is composed of sand. There is no visible debris or structure adjacent to or in the general vicinity of the intake. Native and non-native riparian trees and shrubs are located along the levee just north and south of the diversion. At higher base flows (567 cfs), the intakes are located in a unidirectional river current. Power availability at this site consists of 480V 3-Phase. The expected minimum design water surface elevation at this site is 53.84 ft. (NAVD88).

Photographs of the submerged diversion pipes in the river (A), the pumping station (B), location of the pipes connecting to the pumping station (C), and an aerial view of Site 3 (D), are provided by Figure 4.”

#### **REVISED FIGURE 4**

1. RFP Section I.C.2 - Project Site Information (Page 9) – **DELETE** Figure 4 in its entirety and **REPLACE** Figure 4 with the following photos and text:



**Figure 4.** Photographs of Site #3 including; (A) the submerged diversion pipes in the river, (B) the pumping station, (C) location of the pipes connecting to the pumping station, (D) and an aerial view of Site 3.

## **QUESTION AND ANSWERS**

### **Question #1:**

*Will the Site 1 platform and pilings remain as-is?*

Answer: The Site 1 platform and pilings are likely to remain in the river, but design options may include the addition of pilings, and/or supports, and/or a base, and/or adaptors, and/or a pump conductor, and/or controls, and/or other structures, as needed for proper function.

### **Question #2:**

*What is the water depth at Site 1 during the summer low-flow periods?*

Answer:

- At higher-than-average base flows of 567 cfs (normal water year), the estimated water depth is 7.75 ft.
- At lower-than-average base flows of 200 cfs (dry water year), the estimated water depth is 5.65 ft.
- At critically dry base flows of 80 cfs (critically dry water year), the estimated water depth is 4.65 ft.

### **Question #3:**

*What is the maximum pumping rate at the Site 1 diversion?*

Answer: The maximum pumping rate at Site 1 is 1,800 GPM.

### **Question #4:**

*How deep are the platform pilings driven at Site 1?*

Answer: The landowner is not sure.

### **Question #5:**

*When were the pilings at Site 1 installed?*

Answer: The landowner is not sure.

### **Question #6:**

*How high can the water rise at Site 1?*

Answer: The water level can rise an additional 5 ft., but does not reach the top of the levee or the platform.

**Question #7:**

*What is the water depth at Site 2 during the summer low flow periods?*

Answer:

- At higher than average base flows of 567 cfs (normal water year), the estimated water depth is 6.0 ft.
- At lower than average base flows of 200 cfs (dry water year), the estimated water depth is 3.9 ft.
- At critically dry base flows of 80 cfs (critically dry water year), the estimated water depth is 2.9 ft.

**Question #8:**

*What is the combined maximum pumping rate of the two diversion pipes at Site 2?*

Answer: The combined maximum pumping rate is 2,000 GPM.

**Question #9:**

*Are the diversion pipes running through the levee at Site 2?*

Answer: Yes, the two diversion pipes extend from the river through the levee and connect to pumping station on the other side of the levee.

**Question #10:**

*Does a lot of algae get captured by the filters at Site 2?*

Answer: No, the filters at Site 2 mostly capture leaves and twigs.

**Question #11:**

*Should the two diversion pipes at Site 2 and the two diversion pipes at Site 3 remain separate when developing screen concepts?*

Answer: Yes.

**Question #12:**

*What is the water depth at Site 3 during the summer low flow periods?*

Answer:

- At higher-than-average base flows of 567 cfs (normal water year), the estimated water depth is 5.2 ft.
- At lower-than-average base flows of 200 cfs (dry water year), the estimated water depth is 3.1 ft.
- At critically dry base flows of 80 cfs (critically dry water year), the estimated water depth is 2.1 ft.

**Question #13:**

*Does Site 3 have one or two diversion pipes?*

Answer: Site 3 has two diversion pipes that extend from the river to the pumping station. The Site 3 description and photos (Figure 4) have been revised from the original RFP and addressed in this addendum.

**Question #14:**

*Are vacuum pumps used at Site 3?*

Answer: Yes

**Question #15:**

*How high does the water surface get at Site 3?*

Answer: Under high flows, the water surface rises to roughly 5 feet below the levee surface.

**Question #16:**

*Should tree and vegetation removal be avoided?*

Answer: The removal of native trees and shrubs should be avoided when possible, but may be permitted in cases where it impedes the completion and/or success of the project.



Robyn Bilski  
Fisheries Biologist II  
Lodi Fisheries and Wildlife Division