

### Collector Well Projects – Two Page Questionnaire

Thank you for taking the time to help us in this effort to educate interested parties about collector well projects throughout the United States. A copy of this report will be provided to you within a couple months time. Please include references to reports or other documents regarding your project in Question C.2.

**A. General Project Information**

1. Name of project?  
City of Ukiah
2. Primary Name \_\_\_\_\_  
Phone \_\_\_\_\_  
Email \_\_\_\_\_  
Address \_\_\_\_\_
3. Project Name: \_\_\_\_\_
4. Project location?  
City/State: Ukiah, California
5. Project start date?  
mm/dd/yy: 1966
6. When did wells begin operating (or anticipated start)?  
mm/dd/yy: 1966
7. Project objective(s)?  
 Municipal water supply  
 Agricultural water supply  
 Conjunctive groundwater/surface water use  
 Others (please list) \_\_\_\_\_  
 \_\_\_\_\_
8. Status of project?  
 Planning  
 Small-Scale Testing  
 Large-Scale Testing  
 Full-scale operation  
 Other (please explain) \_\_\_\_\_  
 \_\_\_\_\_
9. Project funding source(s)?  
 Agency/owner out of pocket expense  
 Grant funds  
 Partnerships  
 Other (please list) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

10. What was the primary reason for using collector well technology at this site?  
 Environmental concerns  
 Water demand too great for ordinary production well  
 Water rights for a surface supply not available  
 Research  
 Other: \_\_\_\_\_

11. Number of collector wells and periods of use (seasonal, year-round)? Check boxes that apply.

Well Name	Well Status		Use		Average Flow Production (gpm)
	Active	Proposed	Seasonal	Year-Round	
<u>Ranney</u>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<u>3100</u>

12. Describe the characteristics of your collector wells.

Well Name	Depth of Caisson	Diameter of Caisson	Depth of Laterals	Number of Laterals	Diameter of Laterals
	<u>47'</u>	<u>13'</u>	<u>40-42</u>	<u>12</u>	<u>8"</u>

13. Have you observed decreased flow from your collector wells over time? If so, what do you think is the cause?  
 River migration away from well (please report approximate distance river has migrated: 70+ ft)  
 Laterals clogging  
 Increased pumping from wells nearby (lowered groundwater elevation)  
 Other: river bed scouring to approximately 10'

14. What measures have you taken, if any, to increase yield of your wells?  
 Well re-development  
 Lateral replacement  
 Added new laterals to existing system  
 Other: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

15. Do you have records indicating well yield with time?

No records available

Yes (please fill in the following table)

	Date	Event	Yield (indicate units)
0	Before operation	Designed capacity	13 MGD
1		Well start-up	9 MGD
2			
3			
4			
5		Most recent data	4.5 MGD

16. What is the cost of your raw water (how much does it cost per unit volume for you to produce untreated water)?

260 hp vfd

Number provided includes treatment costs

No records available

**B. Aquifer Characterization**

1. Describe regional aquifer characteristics.

Unconfined

Semi-confined

Confined

Unknown

Other (please list)

2. Describe aquifer geology.

Cobble

Well Sorted

Gravel

Poorly Sorted

Sand *slight*

Silt/Clay

Unknown

Other (please list)

3. What is the closest distance to the nearest surface water body?

Feet or miles: 70' from Russian River

Unknown

4. What is the number of monitoring wells if any?

         wells

None

Other

Unknown

5. What is the frequency of groundwater level monitoring?

minutes/days/months: daily

Unknown

**C. Additional Questions**

1. Do you have records indicating changes in yield upon re-development? How often do you re-develop your wells?

yes. only recently

2. Are any reports, technical memos, or other documentation available from your project activities? If so, who do we contact for copies?

yes. alan Jamison