

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?

HAMWD - RANNEY COLLECTOR 2
REHABILITATION

2.

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: Preferred approach during formation of District

3. 1

4. Project location?

City/State: HUMBOLDT COUNTY, NEAR ARCATTA
CALIFORNIA

5. Project start date?

mm/dd/yy: JUNE OR JULY 2005

6. When did wells begin operating (or anticipated start)?

mm/dd/yy: ~ 1960

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)
Rehab of existing collector well

9. Project funding source(s)?

- Agency/owner out of pocket expense
- Grant funds
- Partnerships
- Other (please list)

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) MGD
	Active	Proposed	Seasonal	Year-Round	
	4			X	~ 10

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

More details than we have without pulling design record.

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: _____ ft)
- Laterals clogging
- Increased pumping from wells nearby (lowered groundwater elevation)

Other: - General degradation over time - potential impact to aquifer from 1964 flood

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) - *would have + pull original construction records*

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

2. Describe aquifer geology.

Cobble

Well Sorted

Gravel

Poorly Sorted

Sand

Silt/Clay

Unknown

Other (please list)

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

~ \$200/AF

Number provided includes treatment costs

No records available

Our costs include many components (source of supply, treatment, distribution etc)

B. Aquifer Characterization

1. Describe regional aquifer characteristics.

Unconfined

Semi-confined

Confined

Unknown

Other (please list)

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

Feet or miles: *60-90 feet*

Unknown

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

_____ wells

None

Other

Unknown

We have but do not know precise no. without pulling records

5. What is the frequency of groundwater level monitoring?

minutes/days/months: _____

Unknown

Don't monitor groundwater (else, but have into for each collector including drawdown

C. Additional Questions

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

↑ This was the first time since initial construction in early 1960s

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

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