

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: South Williams - City of Columbus, OH

2. PI _____

3. _____

4. Project location? Lockbourne, Ohio

5. Project start date? 1990

6. When did wells begin operating (or anticipated start)? 1992

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) Municipal bond sale

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.

Wells	Seasonal	Year-round	Average Flow (gpm)	Number of Periods of Use
101	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6,500	<input checked="" type="checkbox"/>
103	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4,100	<input checked="" type="checkbox"/>
104	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2,500	<input checked="" type="checkbox"/>
115	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2,500	<input checked="" type="checkbox"/>

12. Describe the characteristics of your collector wells.

Name of Well	Depth (ft)	Number of Lateral	Distance of Lateral from Well (ft)
101	74'	16'	70'
103	101'	16'	86'
104	96'	16'	83'
115	68'	16'	63'

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 ground water elevation)
 Other: _____

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)

0	Surface operable	Designated capacity	Well start-up	Most recent data
1				
2				
3				
4				
5				

2. Describe aquifer geology.

- Cobble
 - Well Sorted
 - Poorly Sorted
 - Gravel
 - Sand
 - Silty Clay
 - Unknown
 - Other (please list)
- Four glacial till units resulted in extremely variable aquifer materials.*

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

\$ 117 / Mc (electricity only)

Number provided includes treatment costs

No records available

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

Feet or miles: 100'

Unknown

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

22 wells

- None
- Other
- Unknown

B. Aquifer Characterization

1. Describe regional aquifer characteristics.

- Unconfined
- Semi-confined
- Confined
- Unknown
- Other (please list)

3. What is the frequency of groundwater level monitoring?

minutes/days/months: 25 in ~~hourly~~ daily visits

daily, the rest quarterly.

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. They show that re-development did not increase well yield for the long term. The latests are made of certain steel strength and significant corrosion may be the reason well yields did not decrease at that higher level. We have only re-developed once, and are now in the process of replacing and relining these old screens with new steel-lined stainless steel screens.

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

etc.
