

SUBMISSION OF WATER DEVELOPMENT PROJECTS

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Through the development of scientific studies defining the aquifer within the Cedar Basin it has been documented that additional water resources will be necessary to sustain the growth and further development of the area. Without water for the future economic development will be impacted by the availability and cost of existing water supplies to accommodate only the growth capable within our current water budget. This template is being developed for the purpose of helping to document additional water supply sources that could be utilized to further alleviate the deficit of water that we currently have and provide water for the future residents of the valley. This form will be evaluated for completeness of content. Please ensure that the proposed project is fully defined and information to substantiate the claim is submitted for a complete evaluation.

Application Number

Date Filed

Name and address of applicant (*include zip code*)
 Central Iron County Water Conservancy District
 88 E. Fiddlers Canyon Rd. Suite A
 Cedar City, Utah 84721

Name, title, and address of authorized agent if
 different from item 1 (*include zip code*)

Telephone (area code)

Applicant

Authorized Agent

- A. Provide names, addresses, phone numbers and email addresses of those who filled out this form.
 Kelly Crane, PE, District Engineer, Ensign Engineering and Land Surveying, 1870 North Main Street, Suite 104, Cedar City, Utah 84721, 435-865-1453
 Paul Monroe, General Manager, CICWCD, 88 E. Fiddlers Canyon Rd. Suite A, Cedar City, Utah 84721, 435-865-9901

B. Project Description (Details are Vital)

1. Scope of Work and Project Description
2. Type of System or Facility
3. Quantity of Water Anticipated
4. Scientific Analysis of Water Resource
5. Uses (irrigation, culinary, industrial etc.)
6. Years Resource is Available
7. Constructability
8. Additional information to describe resource and availability (utilize additional sheets as necessary)

Scope of Work – West Well

The Central Iron County Water Conservancy District owns water rights in the water rights area (Area 71) next to Cedar Valley Basin. These rights were received by a customer who turned them over to CICWCD as part of the agreement. This project would implement the water rights into a new well west of Cedar City in the Area 71 boundaries and connect to the existing pipeline along Iron Springs Road. This project would allow CICWCD to draw water from another aquifer basin which would reduce impacts on the Cedar Valley Basin aquifer.

Type of System or Facility

The project would include the construction of a wellhouse and pipelines to connect to CICWCD's water system along Iron Springs Road.

Quantity of Water Anticipated

CICWCD owns 320 acre-feet of water right in Area 71 that would be utilized for this project. Because Area 71 is under a groundwater management plan and since the priority date is later, CICWCD is facing forfeiture of the water right in the next 20-25 years.

Scientific Analysis of Water Resource

The well development site is located in an area that has proven to produce wells that are high production wells. Water quality will need to be determined to verify it falls within drinking water standards and if treatment is necessary.

Uses

The water from this project will be used to supply the CICWCD system for municipal and irrigation uses.

Years Resource is Available

The water would be available on an annual basis until the water right is forfeited. Once the right is forfeited, the well will be abandoned. The other option is to transfer the water right into the Cedar Valley Basin (Area 73). The concern with this option is that water would be available but the total right would be reduced by 60.21% and it will have a later priority date. The Cedar Valley Basin will have a ground water management plan in place and when completed, the water rights with later dates could be forfeited. This means that this right could be removed if moved into Area 73.

Constructability

The well and pipeline constructed in the west side of the valley in Area 71 near WECCO. The wellhouse will pump into a pipeline that will connect to existing CICWCD infrastructure along Iron Springs Road. There appears to be no issues or conflict of constructing the wellhouse and pipeline.

C. Attach a map covering the area of development and location of proposed project.

1. Identify Property Ownership
2. Identify Potential Conflicts
3. Provide Details of the Area and Necessary Changes to the Area
See Attached Exhibit

D. Identify any Federal, State or Local Government Issues

1. Federal
 - a. Army Corp of Engineers
 - b. Bureau of Land Management
 - c. Fish and Wildlife
 - d. Forest Service
 - e. OtherNone.

2. State
 - a. Department of Environmental Quality
 - b. Division of Water Rights
 - c. Other

Division of Water Rights would need to be in cooperation to locate new point of diversion for the water rights.

3. Local
 - a. County
 - b. Municipal
 - c. Other

The property owners at the location of the well have been contacted and negotiations are open to take place. Easements and ROW will need to be done to cross property before tying into county roads. Iron County will need to be contacted for encroachment permits to place the pipeline along the roadway.

E. Provide cost estimates of project

The cost to drill the well, construct the wellhouse and all necessary appurtnances, and install the pipeline from the well to the connection point along Iron Springs Road is \$2,106,975.

F. Describe additional evaluated alternatives, if any

G. Describe any environmental effects the proposed project would have on wildlife and/or plant species

During construction of the well and pipeline, plants may need to be removed. However, when construction is complete the area will be re-vegitated with plants native to the area to ensure minimal impact on other plants or animals.

H. Provide cultural resource evaluations of proposed area

Will request a waiver from the Army Corp of Engineers for a delineation report.

I. Provide any additional information deemed necessary in the evaluation of this project to provide future sustainable water resources to the Cedar Basin

Adding these wells will help alleviate the draw from the existing wells, and help to balance the amount of water drawn from each aquifer. In addition to adding sources to supply the valley with water, the wells will also provide a connection point for the west desert well project.



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**CENTRAL IRON COUNTY WCD
 PROJECT PRIORITIES
 FEBRUARY 2014**

WEST WELL

PROJECT NUMBER: PRINT DATE:
 SUBJECT: 9/2/2013
 DRAWN BY: JFN CHECKED BY: CLN
 PROJECT MANAGER:
 CLN

C 1.0



Legend

- WECCO Well
- Pipelines**
- WECCO Well Line
- Existing Pipelines

