

FILING FOR WATER IN THE STATE OF UTAH

Receipt by: CK#001131

Fee Rec. \$1,000.00

Receipt # 22-01163

APPLICATION TO APPROPRIATE WATER

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements to Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

*WATER RIGHT NO. 81 - 5491

*APPLICATION NO. A 83170

1. *PRIORITY OF RIGHT: _____ *FILING DATE: _____

2. OWNER INFORMATION County Tax ID See attached

Name(s): Washington County Water Conservancy District Interest: 100 %

Address: 533 E. Waterworks Dr.

City: St. George State: Utah Zip Code: 84770

Phone Number 435-673-3617

Is the land owned by the applicant? Yes No (If "No", please explain in EXPLANATORY section)

See Explanatory, Attached

3. QUANTITY OF WATER: _____ cfs and/or 12,900 ac-ft.

4. SOURCE: Underground water wells located in deep aquifers. DRAINAGE: _____

which is tributary to _____

which is tributary to _____

POINT(S) OF DIVERSION: _____ COUNTY: Washington

See attached.

Description of Diverting Works: See attached.

COMMON DESCRIPTION: Multiple locations along the Hurricane Fault, within Washington County Water Conservancy District's service area.

5. POINT(S) OF REDIVERSION _____ at a point:

The water will be rediverted from _____

Description of Diverting Works: _____

6. POINT(S) OF RETURN _____

The water will be returned to the natural stream/source at a point(s): _____

7. STORAGE _____

Reservoir Name: See attached Storage Period: from _____ to _____

Capacity: _____ ac-ft. Inundated Area: _____ acres.

Height of dam: _____ feet

Legal description of inundated area by 40 acre tract(s): _____

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WATER RIGHTS
SALT LAKE

Appropriate

*These items are to be completed by the Division of Water Rights

8. List any other water rights which will supplement this application Water rights owned by Washington County Water Cons. Dist.

9. NATURE AND PERIOD OF USE

Irrigation:	From _____	to _____
Stockwatering:	From _____	to _____
Domestic:	From _____	to _____
Municipal:	From <u>1/1</u>	to <u>12/31</u>
Mining:	From _____	to _____
Power:	From _____	to _____
Other:	From _____	to _____

10. PURPOSE AND EXTENT OF USE

Irrigation: _____ acres. Sole supply of _____ acres.
Stockwatering (number and kind): _____
Domestic: _____ Families.
Municipal (name): Washington County Water Conservancy District
Mining: _____ Mining District in the _____ Mine.
Ores mined: _____
Power Plant name: _____ Type: _____ Capacity: _____
Other (describe): _____

11. PLACE OF USE

Legal description of place of use by 40 acre tract(s):
Service area of Washington County Water Conservancy District.

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of the same size if necessary):
See attached.

The applicant(s) hereby acknowledges that he/she/they are citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, including any maps and other documents attached, at the time of filing, rests with the applicant(s).

Signature of Applicant(s)*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its authorized agent, or in the name of the partnership by one of the partners.

Zachary Renstrom
Authorized Agent (please print)

J D K
Authorized Agent (signature)

*Supplemental Information
Application to Appropriate
Washington County Water Conservancy District*

Item 2. Owner Information.

County Tax ID.

The following table summarizes the County parcel number for the land associated with each point of diversion. Note that several points of diversion are located on BLM land. The Washington County Recorder does not assign a County parcel number to federal land. The place of use for this Application is the service area of the Washington County Water Conservancy District.

Deep Well Name	General Location	Parcel No.
Deep Well A	Near Ash Creek	--
Deep Well B	Near Snowfield	--
Deep Well C	Hurricane Fault above Pintura	3117-A-B-HV
Deep Well D	Hurricane Fault below Pintura	3125-B-HV
Deep Well E	Hurricane Fault at McCullough Well	--
Deep Well F	Hurricane Fault above Anderson Junction	3137-HV
Deep Well G	Hurricane Fault at Anderson Junction	T-3-0-27-131
Deep Well H	Hurricane Fault above Toquerville	T-1-C
Deep Well I	Hurricane Fault in La Verkin	T-152-E
Deep Well I-1	Hurricane Fault near LaVerkin Creek	T-152-B-1
Deep Well J	Hurricane Fault in La Verkin	LV-3-1-13-4200
Deep Well K	Hurricane Fault in Hurricane Fields	H-3-2-10-1205
Deep Well L	Hurricane Fault near Bench Lake	--
Deep Well M	Hurricane Fault near Cliff Dwellers	--
Deep Well N	Hurricane Fault near Sky Ranch	H-MOF-15

*Supplemental Information
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Deep Well O	Hurricane Fault south of Sky Ranch	--
Deep Well P	Hurricane Fault east of Fort Pearce Road Intersection	--
Deep Well Q	Hurricane Fault north of Honeymoon Trail	--

Item 4. Points of Diversion.

1. Deep Well A
 - a. North 944 feet and East 566 feet from the W4 Corner of Section 08, Township 39S, Range 12W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
2. Deep Well B
 - a. North 895 feet and West 978 feet from the S4 Corner of Section 19, Township 39S, Range 12W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
3. Deep Well C
 - a. North 192 feet and West 150 feet from the S4 Corner of Section 24, Township 39S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
4. Deep Well D
 - a. North 335 feet and East 1,248 feet from the SW Corner of Section 01, Township 40S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
5. Deep Well E
 - a. North 1,083 feet and East 1,226 feet from the W4 Corner of Section 13, Township 40S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
6. Deep Well F
 - a. South 189 feet and East 1,194 feet from the W4 Corner of Section 23, Township 40S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
7. Deep Well G
 - a. South 1,007 feet and East 523 feet from the N4 Corner of Section 27, Township 40S, Range 13W, SL B&M

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- b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
- 8. Deep Well H
 - a. North 1,615 feet and East 277 feet from the S4 Corner of Section 35, Township 40S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
- 9. Deep Well I
 - a. South 504 feet and East 284 feet from the W4 Corner of Section 12, Township 41S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
- 10. Deep Well I-1
 - a. South 80 feet and East 324 feet from the W4 Corner of Section 12, Township 41S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
- 11. Deep Well J
 - a. South 80 feet and East 324 feet from the W4 Corner of Section 12, Township 41S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
- 12. Deep Well K
 - a. South 504 feet and East 284 feet from the W4 Corner of Section 12, Township 41S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
- 13. Deep Well L
 - a. North 93 feet and West 1,181 feet from the E4 Corner of Section 10, Township 42S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
- 14. Deep Well M
 - a. South 651 feet and East 1,691 feet from the W4 Corner of Section 15, Township 42S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
- 15. Deep Well N
 - a. South 641 feet and East 1,498 feet from the W4 Corner of Section 22, Township 42S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”; Well Depth – 1,000’ to 5,500’
- 16. Deep Well O
 - a. South 818 feet and East 940 feet from the NW Corner of Section 34, Township 42S, Range 13W, SL B&M

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- b. Description of Diverting Works: Well Diameter – 24”-26”;; Well Depth – 1,000’ to 5,500’
- 17. Deep Well P
 - a. South 729 feet and East 865 feet from the W4 Corner of Section 34, Township 42S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”;; Well Depth – 1,000’ to 5,500’
- 18. Deep Well Q
 - a. North 1,325 feet and East 525 feet from the S4 Corner of Section 10, Township 43S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”;; Well Depth – 1,000’ to 5,500’
- 19. Deep Well R
 - a. South 485 feet and East 81 feet from the W4 Corner of Section 26, Township 43S, Range 13W, SL B&M
 - b. Description of Diverting Works: Well Diameter – 24”-26”;; Well Depth – 1,000’ to 5,500’

Item 7. Storage.

Reservoir Name: Sand Hollow Reservoir

Storage Period: From January 1 to December 31.

Capacity: 50,000 acre feet.

Inundated Area: 1,450 acres.

Height of Dam: 85 feet.

Legal Description of Inundated Area by 40 Acre Tracts:

NW1/4 NW1/4, SW1/4 NW1/4; NW1/4 SW1/4, SW1/4 SW1/4, SE1/4 SW1/4 Section 19; NW1/4, NW1/4 SW1/4, NE1/4 SW1/4, SW1/4 SW1/4 Section 30, Township 42 South, Range 13 West, SLB&M.

S1/2 SE1/4, SE1/4 SW1/4 Section 13; SE1/4 Section 23; All of Section 24; N1/2, SE1/4, N1/2SW1/4 Section 25; and NE1/4, NE1/4 SE1/4, NW1/4 SE1/4 Section 26, Township 42 South, Range 14 West, SLB&M.

Reservoir Name: Quail Creek Reservoir

Storage Period: From January 1 to December 31.

Capacity: 40,325 acre feet.

Inundated Area: 590 acres.

Height of Dam: 209 feet.

Legal Description of Inundated Area by 40 Acre Tracts:

SE1/4 SW1/4, S1/2 SE1/4 Section 23; SW1/4, NW1/4 NW1/4, SW1/4 NW1/4, SE1/4 NW1/4 Section 25; SE1/4 SW1/4, NE1/4, SE1/4 Section 26; NE1/4 NW1/4, SE1/4 NW1/4, NE1/4, N1/2 SE1/4 Section 35; NW1/4 Section 36, Township 41 South, Range 14 West.

Item 12. Explanatory.

Significant population growth in Washington County is expected to continue for the foreseeable future. As a regional public water supplier, part of Washington County Water Conservancy District's ("WCWCD") mission is to develop stable water supplies to serve current and future demand. With this mission in mind, WCWCD files this Application to appropriate deep groundwater located in the "C Aquifer" and "R Aquifer."

The C and R Aquifers are located in Permian, Pennsylvanian, Mississippian, and Devonian strata. Hydrogeologic studies completed by WCWCD and others identified fresh, groundwater resources within the C and R Aquifers (See, e.g., Inkenbrandt, Paul, Thomas, Kevin, and Jordan, J.L., 2013, Regional Groundwater Flow and Water Quality in the Virgin River Basin and Surrounding Areas, Utah and Arizona: Utah Geological Survey, Report of Investigation 272 and Rowley, Peter, Dixon, Gary, Layton, Mark, 2016, Hydrogeology of the Ash Creek Drainage Basin, Washington and Iron Counties, Utah: Washington County Water Conservancy District, Report WCWCD-04).

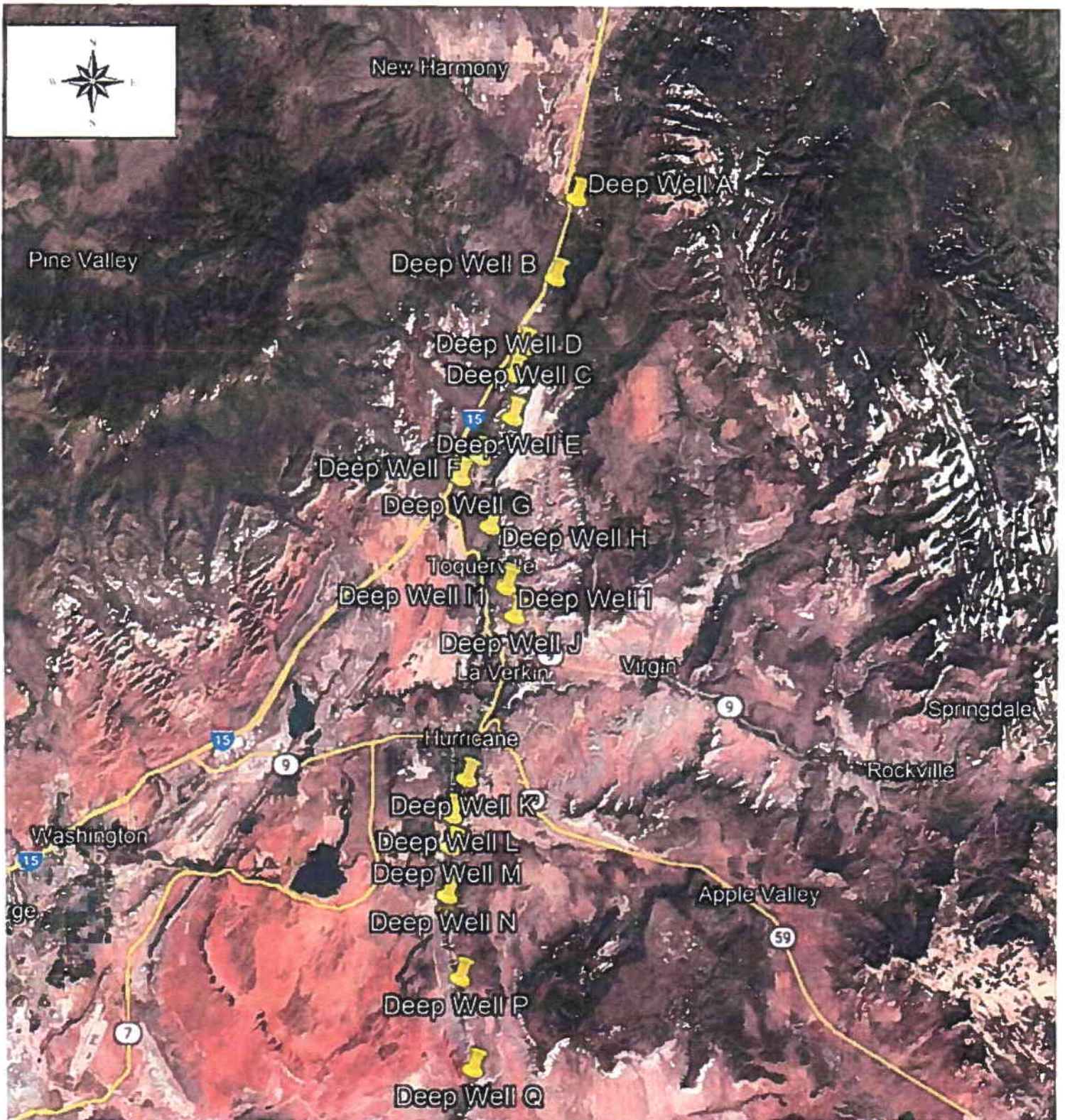
Existing groundwater wells in Washington County primarily draw from aquifers located in basin-fill, Navajo Sandstone, and the Kayenta Formation. The C and R Aquifers are located in different strata and at greater depth than the basin-fill, Navajo Sandstone, and Kayenta Formation aquifers. No existing wells or water rights withdraw from (or propose to withdraw from) the C and R Aquifers. In other words, the groundwater in the C and R Aquifers is unappropriated.

This Application proposes a new appropriation within Area 81 – Virgin River. The State Engineer's policy for Area 81 states that groundwater is fully appropriated. The State Engineer set this policy based on review of the relatively shallow basin-fill, Navajo Sandstone, and Kayenta Formation aquifers (i.e., the aquifers in which water rights have been appropriated). As described above, the C and R Aquifers represent an additional, unappropriated groundwater resource that is located in different strata and at greater depth than these relatively shallow aquifers. As a result, WCWCD can develop unappropriated water from the C and R Aquifers without impairing existing water rights.

The Application proposes development of a series of deep groundwater wells along the Hurricane Fault. WCWCD will use the wells to divert 12,900 acre feet annually from the C and R Aquifers. Once water has been diverted, it will be conveyed by pipeline to WCWCD's drinking water storage system. Depending on its operational needs, WCWCD may also convey water diverted for storage in Sand Hollow Reservoir and Quail Creek Reservoir. WCWCD will use water diverted under this Application for municipal purposes within its service area.

The points of diversion proposed in the Application, and related pipelines and facilities, will be located on land owned by WCWCD, the BLM, and private landowners. In order to construct, operate, and maintain this project, WCWCD will secure easements, rights-of-way, or ownership of the required property. In addition, WCWCD will obtain the federal, state, and local permits required to construct, operate, and maintain this project.

Application to Appropriate – Washington County Water Conservancy District



I/we Zachary Renstrom hereby acknowledge that this map was prepared in support of Application to Appropriate. I/we hereby submit this map as a true representation of the facts shown thereon to the best of my/our knowledge and belief.

Zachary Renstrom

Applicant(s)

3/4/2022

Date

Colorado C

389



Willa Knight <willaknight@utah.gov>

Washington County Application to Appropriate

1 message

Graham Gilbert <GGilbert@parsonsbehle.com>
To: "willaknight@utah.gov" <willaknight@utah.gov>
Cc: Tina Esplin <Tina@wcwcd.org>

Mon, Mar 7, 2022 at 3:23 PM

Hi Willa,

I have attached the following two documents related to Washington County Water Conservancy District's recent Application to Appropriate:

1. Revised List of Points of Diversion
2. Revised Map – Application to Appropriate

Please let me know should you have any questions.

Best,

Graham



A Professional Law Corporation

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2 attachments

- Revised List of Points of Diversion.pdf
330K
- Revised Map - Application to Appropriate.pdf
1759K

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