

GROUNDWATER LEVELS
in the
CAMP CREEK
DESIGNATED GROUND WATER BASIN

2017



By Kevin C. Donegan



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CAMP CREEK DESIGNATED GROUND WATER BASIN
WATER LEVEL MEASUREMENTS
2017

This report contains the basic groundwater level data collected from wells in the Camp Creek Designated Ground Water Basin during the period from 1993 through 2016, although water levels were not collected in 2009. Acquisition and publication of this information is a cooperative effort between the well owners and the Colorado Division of Water Resources. The project is part of a statewide groundwater-level monitoring program funded by Senate Bill 200 (1987 legislative session). This legislation directed that a portion of the fees collected for water well permit applications be used for the establishment of a program to monitor water level trends throughout the state.

The report contains water-level measurements for nine wells measured February 10, 2017. The wells are listed by name in numerical order and the locations of those wells in the geographic context of the designated basin are shown on the following map. All of the Camp Creek wells that are monitored are located in Townships 2 and 3 North, Range 54 West of the 6th P.M. Depth to groundwater, below ground surface, ranged from 13 to 39 feet. Only two wells, CC-01 and CC-02, in the upper reaches of Camp Creek had water levels less than 20 feet below ground surface.

Tabular data are presented for each well for the latest ten-year period and graphical data are presented for the full period of record. Analyses of changes in the water level in the aquifer are complicated by unknown pumping schedules.

Groundwater levels in wells in the Camp Creek Designated Basin are within one foot of the 2016 measurement. However, basin wide water levels have declined approximately 7.8 feet since 1993 when the Division of Water Resources began the monitoring program. The overall declining trend shows signs of leveling-off in the past 10 years, even showing a slight upturn in several wells over the past 5 years. Of particular note is CC-01, at the upper end of the basin, which has had an increasing trend since the early **2000's and the water level is significantly higher** than at the beginning of this monitoring program (13 ft vs. 19 ft below ground surface).

An electronic copy of this report, in Adobe PDF format, is available on the Division of Water Resources website

<http://water.state.co.us/groundwater/Levels/Pages/HydroGeo.aspx>.

Additionally, all groundwater level data may be accessed and exported using the tools available on the Colorado Decision Support System:

<http://cdss.state.co.us/onlineTools/Pages/GroundWaterWaterLevels.aspx>

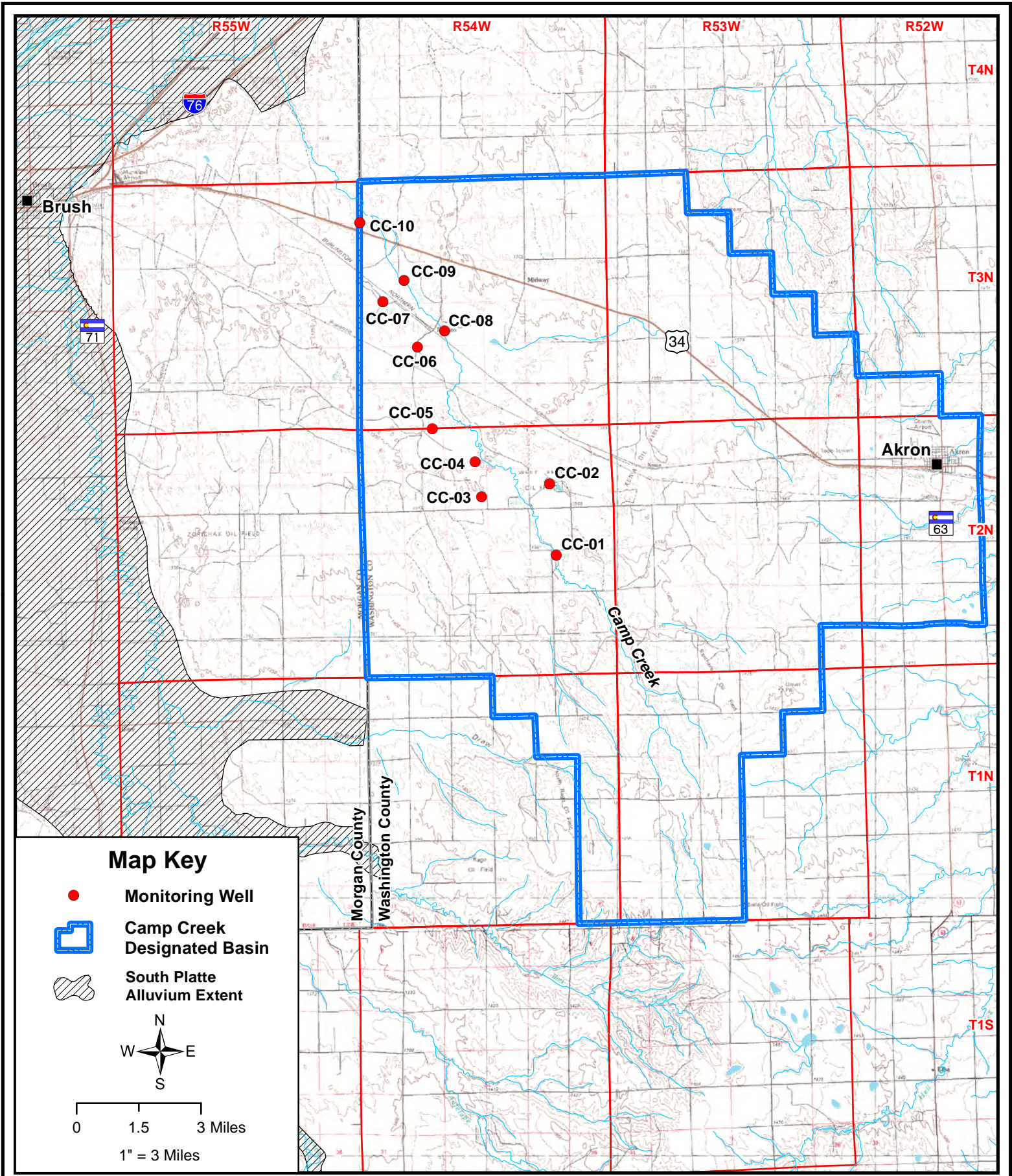
and the Colorado Information Marketplace HydroBase Bulk Data Exporter:

<https://data.colorado.gov/Information-Sharing/DWR-Well-Water-Level/hfwh-wsgi>

or the Colorado Decision Support System MapViewer

<http://water.state.co.us/DataMaps/GISandMaps/MapViewer/Pages/FAQ.aspx>

If you have any questions regarding groundwater and the information in this report, please contact the Groundwater Information Desk at (303) 866-3587.



COLORADO
 Division of Water Resources
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State of Colorado -- Division of Water Resources
**Camp Creek Designated Basin
 Monitoring Well Network**

CAMP CREEK

Well Name: CC-07

Owner: VAUGHEY & VAUGHEY

Permit #: 21077 - S -

Location #: SB00305418DCC

USGS Site ID:

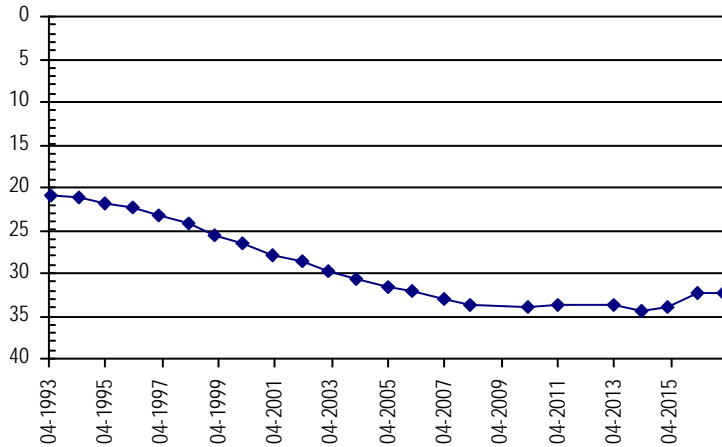
Division: 1 **Water District:** 1 **County:** WASHINGTON
Location: Q160 Q40 Q10 Section **Twnshp** **Range** **PM** **Distance from section lines:**
 SE SW SW 18 3 N 54 W S **From N/S line:** 370 S **From E/W line:** 2040 E
UTM Coordinates (NAD83): **Northing (UTM y):** 4453344.5 **Easting (UTM x):** 630876.1 *GPS*
Latitude/Longitude (decimal degrees): 40.220310 -103.461846

Surface Elevation (ft): 4355 **Top Perforated Interval (ft):** **Base of grout (ft):** **Water Level Change**
Well depth (ft): 115 **Bottom Perforated Interval (ft):** **1 year:** 0.04
Aquifer(s): QUATERNARY ALLUVIUM **5 year:** **10 year:** 0.64

Measurements from last 10 years

Date	Depth to WL (ft)	Elev of WL (ft)	Change (ft)
3/28/2007	33.00	4322.00	-0.87
2/27/2008	33.63	4321.37	-0.63
3/3/2010	33.84	4321.16	-0.21
3/1/2011	33.67	4321.33	0.17
3/28/2012			
3/6/2013	33.81	4321.19	
3/6/2014	34.35	4320.65	-0.54
2/9/2015	33.96	4321.04	0.39
3/22/2016	32.40	4322.60	1.56
2/10/2017	32.36	4322.64	0.04

All Historic Measurements



Well Name: CC-08

Owner: SPENCE RULE

Permit #: 21958 - F -

Location #: SB00305421CBB

USGS Site ID:

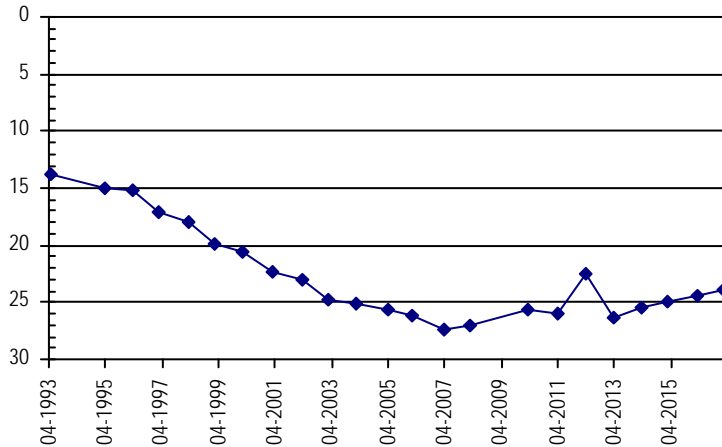
Division: 1 **Water District:** 1 **County:** WASHINGTON
Location: Q160 Q40 Q10 Section **Twnshp** **Range** **PM** **Distance from section lines:**
 SW NW NW 21 3 N 54 W S **From N/S line:** 1800 S **From E/W line:** 420 W
UTM Coordinates (NAD83): **Northing (UTM y):** 4452214.5 **Easting (UTM x):** 633269.1 *GPS*
Latitude/Longitude (decimal degrees): 40.209756 -103.433966

Surface Elevation (ft): 4363 **Top Perforated Interval (ft):** **Base of grout (ft):** **Water Level Change**
Well depth (ft): 83 **Bottom Perforated Interval (ft):** **1 year:** 0.53
Aquifer(s): QUATERNARY ALLUVIUM **5 year:** -1.42
 10 year: 3.51

Measurements from last 10 years

Date	Depth to WL (ft)	Elev of WL (ft)	Change (ft)
3/28/2007	27.37	4335.63	-1.25
2/27/2008	27.05	4335.95	0.32
3/3/2010	25.68	4337.32	1.37
3/1/2011	26.04	4336.96	-0.36
3/28/2012	22.44	4340.56	3.60
3/6/2013	26.25	4336.75	-3.81
3/6/2014	25.38	4337.62	0.87
2/9/2015	24.95	4338.05	0.43
3/22/2016	24.39	4338.61	0.56
2/10/2017	23.86	4339.14	0.53

All Historic Measurements



CAMP CREEK

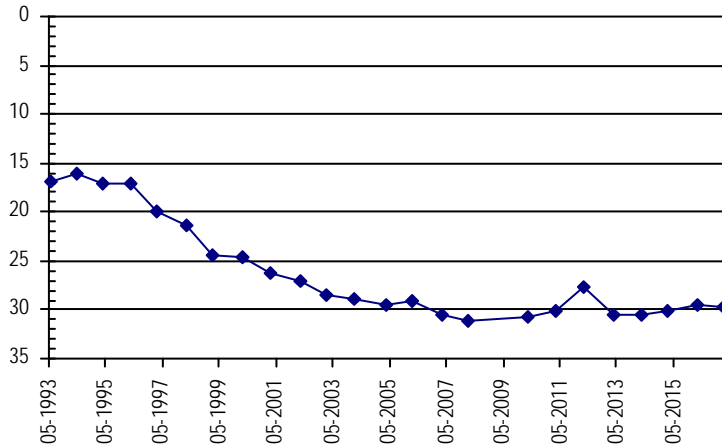
Well Name: **CC-09** **Owner:** SPENCE RULE
Permit #: 15356 - F - **Location #:** SB00305417BCC **USGS Site ID:**
Division: 1 **Water District:** 1 **County:** WASHINGTON
Location: Q160 Q40 Q10 Section Twnshp Range PM Distance from section lines:
 NW SW SW 17 3 N 54 W S **From N/S line:** 2500 N **From E/W line:** 620 W
UTM Coordinates (NAD83): **Northing (UTM y):** 4454178.4 **Easting (UTM x):** 631687.1 *GPS*
Latitude/Longitude (decimal degrees): 40.227694 -103.452147

Surface Elevation (ft): 4340 **Top Perforated Interval (ft):** **Base of grout (ft):** **Water Level Change**
Well depth (ft): 99 **Bottom Perforated Interval (ft):** **1 year:** -0.17
Aquifer(s): QUATERNARY ALLUVIUM **5 year:** -1.99
10 year: 0.75

Measurements from last 10 years

Date	Depth to WL (ft)	Elev of WL (ft)	Change (ft)
3/28/2007	30.43	4309.57	-1.32
2/27/2008	31.18	4308.82	-0.75
3/3/2010	30.73	4309.27	0.45
3/1/2011	30.15	4309.85	0.58
3/28/2012	27.69	4312.31	2.46
3/6/2013	30.58	4309.42	-2.89
3/6/2014	30.60	4309.40	-0.02
2/9/2015	30.19	4309.81	0.41
3/22/2016	29.51	4310.49	0.68
2/10/2017	29.68	4310.32	-0.17

All Historic Measurements



Well Name: **CC-10** **Owner:** HARRY BOLINGER
Permit #: 21217 - F - **Location #:** SB00305407BBB **USGS Site ID:**
Division: 1 **Water District:** 1 **County:** WASHINGTON
Location: Q160 Q40 Q10 Section Twnshp Range PM Distance from section lines:
 NW NW NW 7 3 N 54 W S **From N/S line:** 30 N **From E/W line:** 90 W
UTM Coordinates (NAD83): **Northing (UTM y):** 4456400.4 **Easting (UTM x):** 629969.1 *GPS*
Latitude/Longitude (decimal degrees): 40.247974 -103.471883

Surface Elevation (ft): 4328 **Top Perforated Interval (ft):** 41 **Base of grout (ft):** **Water Level Change**
Well depth (ft): 126 **Bottom Perforated Interval (ft):** 126 **1 year:**
Aquifer(s): QUATERNARY ALLUVIUM **5 year:**
10 year:

Measurements from last 10 years

Date	Depth to WL (ft)	Elev of WL (ft)	Change (ft)
3/28/2007	28.34	4299.66	-0.50
2/27/2008	29.02	4298.98	-0.68
3/3/2010	29.75	4298.25	-0.73
3/1/2011	29.96	4298.04	-0.21
3/28/2012	29.97	4298.03	-0.01
3/6/2013	32.32	4295.68	-2.35
3/6/2014	32.69	4295.31	-0.37
2/9/2015	31.58	4296.42	1.11
3/22/2016			
2/10/2017			

All Historic Measurements

