



UNITED STATES DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY  
SOUTH TEXAS WATER SCIENCE CENTER  
5563 De Zavala Rd., Suite 290  
San Antonio, TX 78249

MEMORANDUM

May 2, 2008

To: Ronald Fieseler, Blanco-Pedernales Groundwater-Conservation District  
CC: Scott Gardner, C.L. Browning Ranch  
From: Richard Slattery, Hydrologic Technician, USGS, San Antonio WSC, TX  
Subject: Measurements of Streamflow and Springflow on Honeycutt Creek

Attached is a table of streamflow measurements made on Honeycutt Creek. Streamflows at each site were measured twice using two different instruments; once using the SonTek FlowTracker, and a second time using the cup style Pygmy meter. Measurements made February 12<sup>th</sup> do not include measurements made with the pygmy; streamflow velocities were too slow for operation of the instrument.

The slow velocities and shallow depths of the stream are non-ideal conditions for the application of either of the instruments. The accuracy of these measurements is therefore considered poor, having a possible error greater than 8%. However, and when obtained, the nearly duplicated discharge values of the 2<sup>nd</sup> measurement lends additional confidence to the accuracy of the measurements.

If you have further questions regarding these measurements, please call or email me.

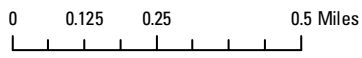
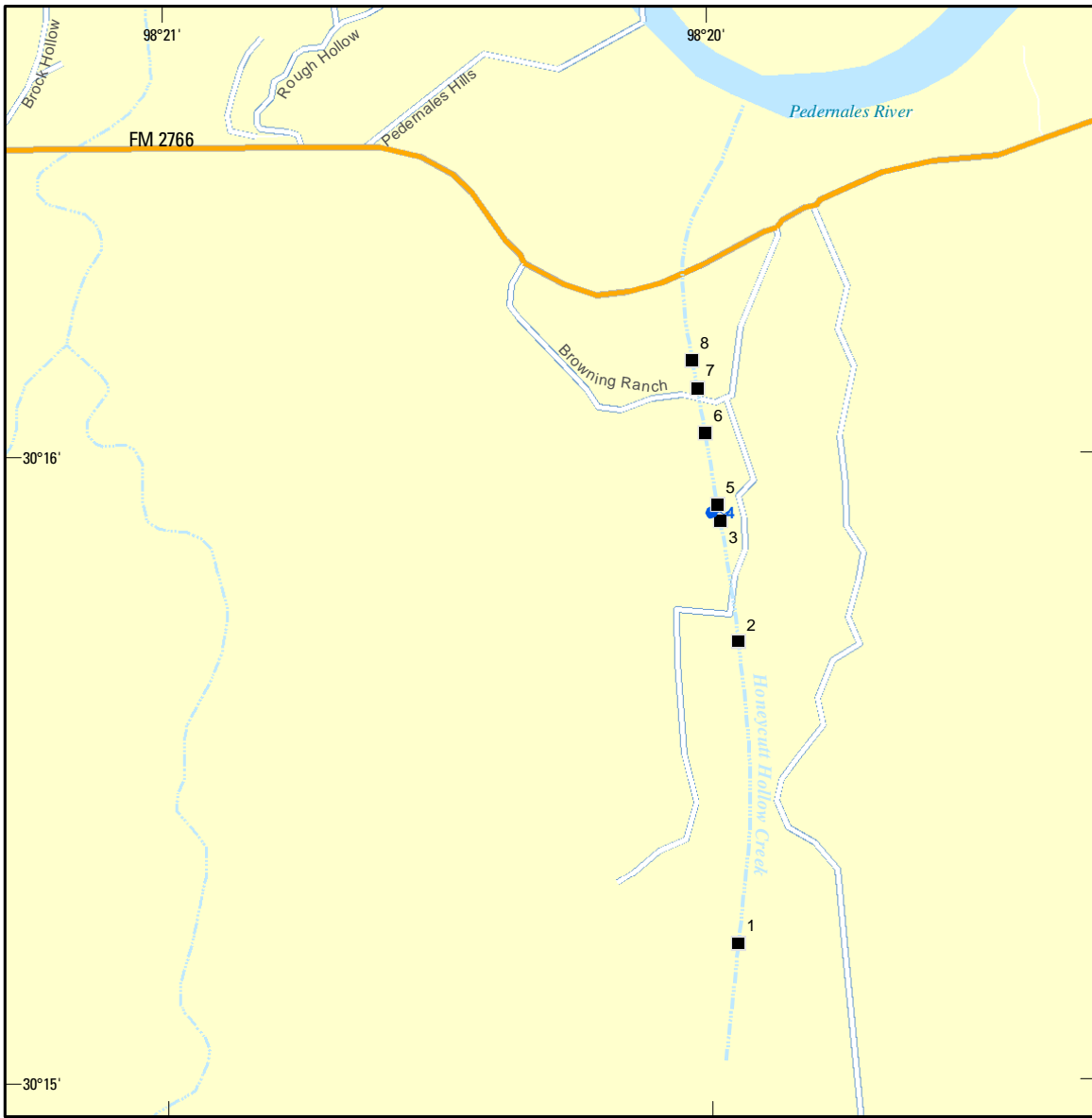
Thank you,

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[ NM, not measured; NF, water pooled but no velocity]

Site No.	Stream	Site Location Description	Latitude / Longitude	Date of Measurement	Flow in Cubic-Foot Per Second as Measured By:	
					Acoustic Doppler Velocity Meter	Pygmy Meter
1	Honeycutt Hollow Crk	Flow measured at south end of ranch, about 300' north of property fence, and below confluence of two forks of the Honeycutt Creek.	30°15'13" N 098°19'57" W	05/17/2007	0.16	0.27
				11/07/2007	NM	NM
				02/14/2008	NF	NF
2	Honeycutt Hollow Crk	Flow measured about 80' above most upstream road crossing and about 95' above Grotto Falls	30°15'42" N 098°19'56" W	05/17/2007	0.29	0.36
				11/07/2007	Dry	Dry
				2/14/2008	Dry	Dry
3	Honeycutt Hollow Crk	Flow measured about 15' upstream of Honeycutt Spring	30°15'53" N 098°19'58" W	05/17/2007	0.52	0.49
				11/07/2007	Dry	Dry
				2/14/2008	Dry	Dry
4	Honeycutt Spring	Flow calculated by subtracting measured flow from Site 5, from the measured flow at site 3. (State Well Number – 5746713)	30°15'54" N 098°19'58" W	05/17/2007	0.29	0.27
				11/07/2007	0.14	0.14
				02/14/2008	0.03	--
5	Honeycutt Hollow Crk	Flow measured about 45' downstream of Honeycutt Spring outflow to Honeycutt Crk.	30°15'55" N 098°19'59" W	05/17/2007	0.81	0.78
				11/07/2007	0.14	0.14
				02/14/2008	0.03	NM
6	Honeycutt Hollow Crk	Flow measured about 30' downstream of lowhead dam and downstream of Honeycutt Spring.	30°16'02" N 098°20'00" W	05/17/2007	0.70	0.66
				11/07/2007	0.12	0.18
				02/14/2008	0.05	NM
7	Honeycutt Hollow Crk	Flow measured about 30' downstream of most downstream road crossing.	30°16'02" N 098°20'01" W	05/17/2007	0.78	0.81
				11/07/2007	0.12	0.12
				02/14/2008	0.04	NM
8	Honeycutt Hollow Crk	Flow measured about 75' downstream of the most downstream dam.	Not Determined	05/17/2007	NM	NM
				11/07/2007	NM	NM
				02/14/2008	0.03	NM



**EXPLANATION**

- 1 ■ Sites
- 4 ● Honeycutt Spring



LOCATION MAP

**Figure 1.** Location of streamflow measuring sites on Honeycutt Hollow Creek, Blanco County, Texas.