County Statistics

Location

Approximately 30 miles northwest of San Antonio on IH-10 in the beautiful Texas Hill Country.

Population

Approximately 30,000 *2006 U.S. Census estimate

Mean Elevation

Approximately 1500 ft.

Average Rain Fall

Approximately 40 inches/year

County Seat

Boerne, Texas 78006





Careers Contact Local & State Links

Government Solutions

Zoun, Reem

From: John & Mary Evelyn Kight [jmkight@beecreek.net]

Sent: Sunday, August 01, 2010 11:00 AM

To: Michael Schultz (Director); Kathleen Ligon; marty.bryant@yahoo.com;

sschmid@marlinatlantis.com; gjolley@texastriallaw.com; richard.tobolka@co.kendall.tx.us;

David Welsch; kmkcwcid@hctc.net; manager@ccgcd.org; mbryant@sara-tx.org;

remmons@fairoaksranchtx.org; mmann@ci.boerne.tx.us; Zoun, Reem Burke, Jaime; Bennett, Anthony (TCB); Parkhill, David; Debbie Magin

Cc: Burke, Jaime; Bennett, Anthony (TCB); Parkhill, David; Debbie Magin

Subject: Re: Summary from 07/22 Advisory Group Meeting - request for feedback on rainfall amount

Reem,

In response to the rainfall question for Kendall County:

I will FAX you the 116 year rainfall records for Kendall County as recorded in Boerne, Texas.

The 116 year rainfall average for Kendall County is 33.97 inches per year . (1893-- 2009)

From the above data the average rainfall for the past 10 years is 40.77 inches per year and 39.98 inches per year for the past 20 years. The 40 inches per year average looks good.

I hope this helps. Thanks, John Kight

---- Original Message -----

From: Zoun, Reem

To: mmann@ci.boerne.tx.us; remmons@fairoaksranchtx.org; mbryant@sara-tx.org; manager@ccgcd.org;

kmkcwcid@hctc.net; David Welsch; jmkight@beecreek.net; richard.tobolka@co.kendall.tx.us;

gjolley@texastriallaw.com; sschmid@marlinatlantis.com; marty.bryant@yahoo.com; Kathleen Ligon; Michael Schultz

(Director)

Cc: Debbie Magin; Parkhill, David; Bennett, Anthony (TCB); Burke, Jaime

Sent: Tuesday, July 27, 2010 10:33 AM

Subject: Summary from 07/22 Advisory Group Meeting - request for feedback on rainfall amount

Dear advisory group members,

Since our meeting on 07/22 was our last advisory group meeting, I wanted to provide you with some key meeting outcomes. We also need input from you on the average Kendall county rainfall amount you would like us to use.

Please take a minute to read the following summary of key points from the meeting and provide any further feedback you may have.

Meeting notes/ highlights from the final advisory group meeting: Wastewater Options:

- 1. Costing of pipeline will be added to Boerne/ Fair Oaks Ranch wastewater treatment plant option.
- 2. Mike Mann will send AECOM engineers estimate for the Boerne 2nd water treatment plant.

Water Quality:

- 3. Average annual rainfall in Kendall County: I believe 32 inches/yr and 35 inches/yr were mentioned at the meeting. Please verify which number you would like for us to use to compute non-point loadings. I have found 32in/yr at Texas Handbook and 40 in/yr on the Kendall County website. To use another number, please provide some supporting source.
- 4. Increase in point and non-point pollutant loadings will be presented as a percentage of total loadings.

5. Preventative measures to reduce non-point pollution will be mentioned in the report.

We appreciate your time and the useful information and comments you have provided on this project.

Thanks, Reem

Reem J. Zoun, PE
Project Engineer, Water
Southwest & Mountain Region
D 512.457.7742
reem.zoun@aecom.com

AECOM

400 West 15th Street, Suite 500, Austin, TX 78701 T 512.472.4519 F 512.472.7519 www.aecom.com

JOHN C. KIGHT___

33 Tower Road Boeme, Texas 78006-7921 Phone: (830) 230-5373 FAX: (830) 537-3722

FAX TRANSMITTAL

RE: Kenda	11 County F	Rainfall re	cords.	-
				-
s;4	Including	This Cover Sheet	- reside -	900 010
NOTES: 50	e e-mail	8 -1-10		
· · · · · · · · · · · · · · · · · · ·				
				
				The second

BOERNE (410902) Monthly Totals/Averages Precipitation (inches) Years: 1893-2009

Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Annual Year 0.21 0.98 2.10 1.89 2.79 1.34 0.91 1.05 0.23 0.60 3.84 1.02 16.96 1893 1.68 1.16 1.10 7.78 6.05 2.17 0.13 6.87 1.97 2.72 0.07 0.24 31.94 1894 1.48 4.02 2.09 0.51 6.30 4.76 0.16 1.22 4.30 1.55 4.75 0.81 31.95 1895 1896 4.41 2.82 0.83 2.95 0.98 0.37 6.71 0.62 5.59 4.86 0.31 2.41 32.86 1.56 0.10 4.06 3.26 1.45 2.15 1.82 4.03 3.29 2.33 0.12 2.29 26.46 1897 1.25 1.26 1.92 3.88 2.71 6.71 1.66 1.70 2.10 3.32 2.16 2.77 31.44 1898 0.42 0.45 0.03 1.77 3.10 4.96 3.29 0.39 2.97 8.96 2.59 4.91 33.84 1899 5.31 0.25 3.36 12.36 7.71 1.08 8.40 2.46 1.99 4.62 1.35 1.30 50.19 1900 0.47 1.08 1.20 1.15 3.74 1.86 6.04 1.18 3.06 0.74 0.75 0.33 21.60 1901 0.97 1.02 1.97 2.32 5.94 0.39 2.77 0.06 2.84 2.78 9.00 3.65 33.71 1902 3.35 8.70 2.21 2.03 2.05 6.15 9.50 0.58 1.62 1.59 0.00 0.75 38.53 1903 0.12 1.33 0.88 4.26 8.28 1.84 1.99 4.16 8.83 2.50 0.55 1.67 36.41 1904 1.00 1.50 3.30 9.30 0.17 4.10 1.30 1.60 3.80 2.10 4.50 1.80 34.47 1905 1906 0.40 0.90 0.45 2.40 1.20 1.05 7.00 1.95 5.60 1.00 1.20 1.20 24.35 1907 0.20 1.00 1.40 2.40 7.75 0.20 1.50 0.60 1.70 7.95 10.40 1.50 36.60 1908 0.40 2.10 2.00 2.40 7.60 0.00 5.50 5.90 1.00 0.45 0.80 0.83 28.98 1909 0.00 0.30 1.57 2.10 3.89 1.05 6.90 0.88 1.94 1.42 2.95 2.76 25.76 1910 0.05 0.68 3.70 3.38 1.91 0.61 0.84 0.00 1.43 3.11 1.34 4.41 21.46 0.58 2.17 5.45 4.72 1.36 0.13 1.70 1.05 0.40 1.97 2.95 2.95 25.43 1911 1912 0.34 3.55 3.53 2.73 1.15 3.41 0.92 0.86 1.73 3.47 3.84 2.18 27.71 1913 1.21 1.80 0.90 1.94 3.85 6.05 0.33 0.53 5.64 16.37 8.03 5.82 52.47 1914 0.05 1.73 1.32 6.57 15.65 0.50 0.84 10.00 1.56 2.52 3.80 2.24 46.78 1915 1.68 2.90 1.69 9.94 1.30 0.16 1.61 5.20 5.34 1.18 0.67 2.04 33.71 1916 4.35 0.04 0.23 6.76 7.54 0.54 3.62 2.63 5.44 4.39 0.87 0.25 36.66 1917 1.05 1.30 0.28 1.14 6.85 3.65 0.58 0.13 3.05 0.95 0.79 0.05 19.82 1918 0.28 1.65 0.93 3.72 1.28 2.56 0.12 1.27 4.01 3.47 4.72 6.57 30.58 1919 4.14 2.85 1.73 3.84 4.16 5.74 6.27 7.06 13.90 10.49 1.08 1.21 62.47 1920 2.72 0.74 0.94 1.31 2.44 3.89 1.53 2.99 2.63 3.54 5.04 0.22 27.99 1921 2.16 0.87 3.35 4.81 2.35 3.87 1.02 0.90 9.69 1.02 1.39 1.38 32.81 1922 1.42 1.54 3.18 7.59 3.22 3.15 0.28 0.41 1.66 2.24 1.41 0.13 26.23 1923 0.56 5.35 3.28 4.89 1.61 1.48 3.23 1.92 9.97 7.18 4.02 4.74 48.23 1924 1.64 3.61 2.91 3.86 9.82 4.10 0.00 0.10 4.06 0.79 0.24 1.66 32.79 1925 0.42 0.12 0.00 1.51 2.35 1.02 0.59 2.10 3.17 6.00 2.66 1.07 21.01 1926 2.85 0.11 6.04 8.11 4.17 2.96 2.85 0.89 0.27 4.13 3.10 3.08 38.56 1927 1.54 4.60 2.72 3.48 2.72 5.58 3.17 0.15 0.86 1.75 0.10 3.23 29.90 1928 0.64 3.90 0.68 1.70 1.01 2.64 4.07 1.64 5.73 1.07 2.06 2.61 27.75 1929 1.58 0.62 1.34 2.42 8.04 1.28 6.83 0.64 2.02 2.86 3.17 3.26 34.06 1930 1.54 1.22 2.51 1.95 5.20 4.27 1.22 0.94 2.01 - - 1.40 22.26 1931 6.44 5.53 2.69 7.09 1.62 1.79 3.81 1.60 0.17 - - 3.78 34.52 1932 4,38 3.84 3.14 3.01 1.94 1.22 5.62 4.49 5.19 0.00 0.47 3.35 36.65 1933 4.13 2.51 0.85 1.32 3.75 1.20 2.37 0.83 2.52 0.13 0.48 0.49 20.58 1934 6.01 2.33 2.54 2.73 1.74 0.55 5.17 0.38 0.91 0.14 0.99 3.29 26.78 1935 0.42 3.04 0.77 2.45 12.59 8.59 6.80 0.57 10.40 2.14 1.35 3.81 52.93 1936 0.70 0.65 1.74 0.97 11.17 9.27 2.80 2.44 11.43 2.97 1.77 1.68 47.59 1937 1.98 0.15 2.92 1.60 5.94 5.50 3.24 1.49 0.10 2.89 1.54 5.46 32.81 1938 4.06 1.61 2.07 4.52 2.59 1.33 1.84 0.22 3.97 0.16 0.48 1.29 24.14 1939 3.54 0.86 0.65 1.46 2.58 0.58 6.55 3.05 0.48 3.16 2.33 0.96 26.20 1940 0.68 3.69 1.59 2.24 3.45 3.90 0.79 1.19 1.17 4.71 3.67 5.21 32.29

Average 1.83 2.15 2.19 3.17 4.24 3.27 2.66 2.57 3.82 3.47 2.51 2.13 33.97

AUG-1-2010 11:03A FROM: JOHN KIGHT

830 537 3722

```
1.81 5.88 4.71 5.76 4.51 3.03 1.61 0.55 5.00 7.02 0.85 0.87 41.60
        0.41 1.17 0.66 3.53 3.79 1.27 2.62 3.91 4.78 5.65 1.58 1.75 31.12
1941
1942
        0.86 0.07 1.71 1.27 4.26 3.57 5.16 0.05 4.76 0.39 1.59 2.64 26.33
1943
        3.67 3.75 3.70 1.08 8.56 1.88 0.87 7.56 2.25 1.37 3.91 4.38 42.98
1944
        3.55 2.94 1.98 1.10 1.00 2.65 4.22 2.85 5.01 3.94 1.30 2.96 33.50
1945
        3.02 2.35 1.93 3.94 3.65 3.14 2.40 6.62 9.45 4.22 2.29 2.61 45.62
1946
        4.09 0.37 1.91 1.51 5.92 0.31 0.48 - - - - 14.59
        0.44 3.08 1.49 1.98 1.29 5.47 1.81 0.87 3.56 2.43 0.57 0.78 23.77
1947
1948
        3.68 3.72 1.73 7.28 3.18 3.95 3.77 5.54 2.08 3.33 0.00 2.89 41.15
1949
         0.70 2.49 0.34 3.73 3.08 2.02 4.14 3.88 3.29 0.55 0.72 0.00 24.94
         0.24 1.71 2.69 2.48 4.10 1.60 0.60 0.31 1.44 2.08 1.26 0.25 18.76
1950
1951
         0.53 1.59 2.98 3.64 7.14 0.96 0.62 0.00 13.63 0.00 3.40 3.05 37.54
1952
         0.73 0.89 1.18 1.47 1.60 0.72 0.77 4.52 3.97 3.95 0.39 1.23 21.42
         0.87 0.00 0.08 1.07 0.91 1.47 0.25 0.06 0.57 2.72 1.94 0.35 10.29
1953
         1.72 2.71 0.45 0.14 4.68 1.37 0.37 4.09 0.70 0.19 1.56 1.29 19.27
1954
1955
         1.07 1.33 0.13 0.23 0.67 0.59 0.14 1.98 2.04 1.11 1.68 1.08 12.05
1956
          0.51 3.46 4.06 9.33 9.22 3.12 0.00 0.68 8.90 7.22 4.61 1.44 52.55
 1957
          4.68 2.92 2.89 1.17 7.34 3.20 0.12 0.79 10.37 6.63 0.33 0.50 40.94
 1958
          0.75 4.44 0.30 2.76 2.02 9.44 1.39 1.76 2.27 4.93 2.06 3.52 35.64
 1959
          1.01 1.47 2.63 0.84 1.45 3.24 3.80 4.57 0.74 6.70 1.16 4.94 32.55
 1960
          1.26 4.00 0.39 0.06 0,12 6.82 3.92 1.06 1.42 2.06 2.82 1.52 25.45
 1961
          0.61 0.63 1.47 4.41 1.42 1.92 0.76 0.69 5.11 4.51 2.40 1.33 25.26
          0.22 2.23 0.13 3.80 1.19 2.24 0.33 2.70 1.29 1.67 3.88 0.98 20.66
 1962
 1963
          4.19 2.34 3.12 1.71 0.97 2.38 0.37 1.40 6.61 1.35 1.77 1.15 - 27.36
 1964
          1.07 6.47 2.04 5.54 10.26 2.24 0.04 1.02 3.68 4.68 1.03 4.34 42.41
 1965
          1.82 2.12 0.83 4.56 5.17 1.02 1.16 5.94 5.99 0.21 0.00 0.23 29.05
  1966
          0.15 0.99 0.94 1.54 3,24 0.04 0.58 3,43 8,00 2,68 3,38 1,78 26,75
  1967
          6.50 1.89 2.64 4.59 3.59 3.57 2.02 0.45 4.08 0.94 2.78 2.09 35.14
          0.78 3.92 2.24 4.45 2.82 2.73 1.28 4.14 2.97 7.17 2.18 3.39 38.07
  1968
  1969
          1.82 3.78 2.66 1.33 8.04 1.14 0.44 0.11 6.53 1.74 0.02 0.18 27.79
  1970
          0.05 1.24 0.11 2.93 1.98 3.26 0.35 15.25 8.91 6.25 2.85 2.06 45.24
  1971
          1.31 0.28 2.03 1.73 7.86 4.10 2.18 6.37 2.92 2.58 3.19 0.54 35.09
  1972
          3.67 2.70 2.74 4.49 0.89 10.02 9.83 1.29 6.86 7.67 0.61 0.16 50.93
  1973
          1.95 0.05 0.99 1.40 7.27 1.82 0.18 15.46 2.00 3.46 3.86 3.36 41.80
  1974
          1.09 5.04 1.03 6.76 5.89 3.57 2.60 0.52 1.99 3.25 0.18 1.57 33.49
  1975
           0.33 0.24 1.39 11.11 6.13 1.53 4.66 2.58 4.35 7.57 2.14 3.21 45.24
  1976
           3.11 1.16 1.37 5.90 2.63 5.17 0.29 0.57 1.06 3.84 6.91 0.42 32.43
           0.95 2.09 0.81 1.56 1.05 2.05 0.31 6.38 9.38 0.29 6.09 4.21 35.17
  1977
  1978
           3.75 3.01 6.97 4.64 1.06 5.51 8.17 1.58 0.71 0.66 2.11 1.80 39.97
  1979
           1.20 0.52 2.40 2.69 5.58 0.17 0.16 2.17 7.94 1.87 3.68 0.64 29.02
  1980
           1.43 1.44 3.88 2.33 6.04 11.16 2.43 2.71 2.26 4.65 2.07 0.65 41.05
  1981
           1.18 1.97 0.74 2.04 6.47 2.84 1.18 1.01 2.14 2.77 3.80 1.50 27.64
   1982
           1.73 1.81 3.96 0.00 5.59 3.98 2.77 3.53 2.28 5.70 2.58 0.67 34.60
  1983
           1.87 0.63 0.50 0.26 2.41 3.68 1.89 0.33 1.74 7.02 2.48 4.16 26.97
   1984
           1.82 3.19 - 3.19 2.81 6.83 3.70 0.05 7.11 3.76 4.14 1.17 37.77
   1985
           0.88 1.86 0.58 1.24 7.46 4.48 0.11 0.98 6.61 - 1.90 6.84 32.94
   1986
           0.81 4.25 0.92 0.88 8.55 11.22 0.96 0.85 3.15 0.18 5.68 2.41 39.86
   1987
           0.56 1.05 2.39 1.09 1.35 5.07 0.58 1.64 3.04 1.94 0.21 0.62 19.54
   1988
           4.71 0.92 2.06 1.56 2.19 2.85 0.46 1.02 1.99 5.35 1.60 0.43 25.14
   1989
           1.35 2.30 6.59 4.74 2.63 0.10 11.59 2.39 3.94 3.17 3.40 0.31 42.51
   1990
          4.22 2.36 1.47 3.51 4.49 4.03 0.85 1.86 5.18 1.27 2.02 16.96 48.22
   1991
           4.67 7.81 5.93 1.77 12.61 7.20 4.88 4.54 3.69 1.40 7.13 2.54 64.17
  1992
```