

331346117243401 Santa Margarita River Estuary near Oceanside, CA

Santa Margarita River Basin

LOCATION.--Lat 33°13'46", long 117°24'34" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.9, T.11 S., R.5 W., San Diego County, CA, Hydrologic Unit 18070302, on Camp Joseph H. Pendleton Naval Reservation, on tidal flat of the Santa Margarita River, 0.6 mi west of Interstate 5, and 3.0 mi northwest of Oceanside.

DRAINAGE AREA.--Not determined.

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--November 1993 to Nov. 29, 2010.

DISSOLVED OXYGEN: November 1993 to Nov. 29, 2010.

pH: November 1993 to Nov. 29, 2010.

SPECIFIC CONDUCTANCE: November 1993 to Nov. 29, 2010.

WATER TEMPERATURE: November 1993 to Nov. 29, 2010.

INSTRUMENTATION.--Water-quality monitor since November 1993.

REMARKS.--Interruptions in record at times in some years due to malfunction of recording equipment. Record was suspended due to inaccessibility of gage.

Dissolved oxygen records rated poor.

pH records rated fair.

Specific Conductance records rated good.

Water temperature records rated good.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: Maximum recorded, >20.0 mg/L, many days; minimum recorded, <0.20 mg/L, many days.

pH: Maximum recorded, 9.9 standard units, Jan. 17, 2000; minimum recorded, 6.0 standard units, Nov. 23, 1994, Apr. 24, 1995.

SPECIFIC CONDUCTANCE: Maximum recorded, 58,700 microsiemens, July 2, 1998; minimum recorded, 236 microsiemens, Feb. 25, 1998.

WATER TEMPERATURE: Maximum recorded, 35.0°C, Aug. 14, 1996; minimum recorded, 2.0°C, Nov. 19, 21, 1994.

EXTREMES FOR CURRENT YEAR.--

DISSOLVED OXYGEN: Maximum recorded unknown; minimum recorded, <0.2 mg/L, Oct 15-18 and Nov. 4.

pH: Maximum recorded unknown; minimum recorded unknown.

SPECIFIC CONDUCTANCE: Maximum recorded unknown; minimum recorded, 1,090 microsiemens, Jan. 22.

WATER TEMPERATURE: Maximum recorded unknown; minimum recorded unknown.

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DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

[<, less than]

Day	Max	Min	Median	Max	Min	Median
	October			November		
1	8.4	0.3	3.9	5.5	1.0	2.8
2	9.1	1.1	3.9	3.8	0.7	2.3
3	6.3	1.5	2.9	4.7	0.2	2.3
4	5.6	1.8	3.4	5.4	<0.2	2.9
5	7.2	0.9	4.1	7.6	3.2	4.8
6	7.9	3.2	4.8	11.3	1.0	5.2
7	9.1	1.6	4.1	13.6	3.4	6.2
8	8.1	2.2	3.5	9.5	0.8	6.9
9	7.2	1.9	2.9	6.1	1.7	4.1
10	7.1	1.0	2.9	5.1	0.3	3.4
11	6.3	0.4	2.6	7.8	0.7	3.2
12	6.0	0.6	2.5	6.7	0.6	4.3
13	5.7	0.4	1.4	6.8	0.9	4.0
14	4.1	0.2	1.0	7.0	1.0	4.8
15	4.0	<0.2	1.0	6.5	2.7	5.2
16	5.5	<0.2	1.7	5.7	0.8	3.4
17	5.7	<0.2	1.9	8.0	0.6	4.9
18	4.8	<0.2	1.9	6.7	0.5	2.8
19	8.0	0.6	4.1	2.8	0.2	0.8
20	8.4	1.5	4.3	7.8	0.2	4.9
21	---	---	---	10.1	0.4	6.2
22	9.9	3.6	7.3	9.6	3.9	5.5
23	13.2	4.1	8.7	10.4	5.1	7.6
24	12.9	3.7	9.2	8.7	3.8	6.2
25	11.2	6.2	8.7	7.9	0.9	6.0
26	10.9	4.4	8.1	7.9	2.9	5.7
27	11.5	3.4	8.1	9.2	0.3	6.0
28	10.7	5.2	7.7	10.3	0.3	7.4
29	12.6	4.6	8.1	7.7	3.6	5.9
30	9.3	5.0	7.2	---	---	---
31	6.6	1.0	4.0	---	---	---
Max	---	---	---	---	---	---
Min	---	---	---	---	---	---

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PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Median	Max	Min	Median
	October			November		
1	8.0	7.7	7.8	8.4	8.0	8.3
2	8.1	7.7	7.8	8.2	8.0	8.1
3	7.9	7.7	7.8	8.1	7.8	7.9
4	7.8	7.6	7.7	8.1	7.7	7.8
5	7.9	7.5	7.7	8.2	7.8	7.9
6	7.9	7.6	7.7	8.4	7.6	8.0
7	8.1	7.6	7.8	8.5	7.8	8.2
8	8.0	7.6	7.8	8.4	7.8	8.3
9	8.0	7.6	7.7	8.2	8.0	8.2
10	8.0	7.6	7.8	8.2	7.8	8.1
11	7.9	7.6	7.7	8.3	7.8	8.1
12	7.9	7.6	7.7	8.4	7.8	8.2
13	7.7	7.6	7.6	8.4	7.8	8.2
14	7.8	7.6	7.6	8.5	7.9	8.3
15	7.7	7.6	7.6	8.5	8.0	8.4
16	7.9	7.6	7.6	8.6	8.0	8.3
17	8.0	7.6	7.8	8.5	8.1	8.4
18	7.9	7.7	7.7	8.5	8.0	8.3
19	8.2	7.6	7.8	8.4	8.2	8.3
20	8.2	7.7	7.8	8.6	8.3	8.5
21	---	---	---	8.7	8.3	8.6
22	8.6	8.1	8.4	8.8	8.4	8.6
23	8.8	8.0	8.4	8.9	8.5	8.7
24	8.8	8.0	8.5	8.9	8.6	8.8
25	8.7	8.2	8.6	8.9	8.6	8.8
26	8.7	8.2	8.5	9.0	8.6	8.9
27	8.6	8.2	8.5	9.1	8.7	8.9
28	8.8	8.4	8.5	9.1	8.6	9.0
29	8.8	8.2	8.6	9.0	8.8	8.9
30	8.7	8.4	8.6	---	---	---
31	8.6	8.3	8.5	---	---	---
Max	---	---	---	---	---	---
Min	---	---	---	---	---	---

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**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER
CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Median	Max	Min	Median
	October			November		
1	51,800	51,100	51,500	38,600	38,400	38,500
2	51,900	51,300	51,600	38,700	38,600	38,600
3	51,900	51,500	51,700	38,900	38,600	38,800
4	51,800	51,000	51,400	39,100	38,900	39,000
5	51,500	51,200	51,400	39,400	39,100	39,300
6	51,300	48,400	49,300	39,500	39,300	39,400
7	50,300	49,700	50,200	39,700	39,500	39,600
8	50,500	50,200	50,400	39,800	39,500	39,700
9	50,700	50,200	50,500	40,000	39,800	39,900
10	50,800	50,600	50,700	40,100	40,000	40,000
11	51,000	50,800	50,900	40,400	40,100	40,300
12	51,200	50,800	51,000	40,800	40,400	40,600
13	51,300	51,200	51,200	40,900	40,600	40,800
14	51,300	51,200	51,300	41,100	40,700	40,900
15	51,300	51,100	51,200	41,200	40,900	41,100
16	51,300	50,900	51,200	41,300	41,100	41,200
17	51,100	50,100	50,600	41,400	41,200	41,300
18	50,700	50,500	50,600	41,500	41,400	41,500
19	50,700	15,800	50,200	41,500	41,400	41,400
20	43,100	18,200	40,200	41,400	40,400	40,800
21	---	---	---	40,600	39,800	40,000
22	35,100	31,300	33,600	40,200	40,000	40,100
23	36,500	34,400	35,400	40,300	40,000	40,200
24	37,200	36,400	36,600	40,000	39,800	39,900
25	37,200	35,400	36,600	40,300	40,000	40,200
26	37,300	36,800	37,000	40,600	40,100	40,400
27	37,700	37,300	37,500	40,600	39,800	40,400
28	38,000	37,700	37,800	39,800	39,400	39,600
29	38,300	38,000	38,000	39,900	39,600	39,700
30	38,300	38,100	38,300	---	---	---
31	38,500	38,300	38,400	---	---	---
Max	---	---	---	---	---	---
Min	---	---	---	---	---	---

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Day	Max	Min	Median	Max	Min	Median
	October			November		
1	27.4	22.0	24.2	19.3	16.0	17.9
2	28.4	23.8	25.7	20.8	16.7	18.7
3	25.9	23.3	24.4	21.0	17.4	19.3
4	23.3	19.6	21.1	21.3	17.6	19.3
5	19.7	18.0	19.0	21.0	17.1	19.1
6	21.1	17.1	19.0	19.9	16.5	18.5
7	22.8	18.8	20.5	19.5	16.5	18.2
8	22.1	18.0	20.5	19.3	17.3	18.0
9	23.6	18.6	20.6	17.8	15.2	16.7
10	24.3	19.4	21.5	16.9	14.3	16.0
11	23.2	20.6	21.9	16.6	14.6	15.6
12	24.2	21.1	22.1	16.4	13.2	14.8
13	23.3	21.8	22.5	16.5	13.1	14.8
14	22.2	21.2	21.6	16.6	13.3	14.9
15	21.3	20.4	20.8	16.8	13.1	15.0
16	20.6	19.8	20.2	16.6	13.5	15.0
17	20.2	19.2	19.8	17.3	14.8	16.2
18	20.8	19.1	19.9	17.2	15.8	16.5
19	20.2	16.5	19.6	16.6	16.0	16.4
20	21.4	17.3	18.7	16.2	15.4	15.8
21	---	---	---	15.9	14.3	15.1
22	21.4	18.9	19.7	15.3	12.8	14.2
23	21.2	18.8	20.1	14.6	12.3	13.7
24	22.3	19.1	20.6	14.1	12.7	13.3
25	23.3	19.9	21.0	13.4	11.0	12.0
26	22.8	19.8	21.4	12.6	9.7	11.2
27	21.6	18.8	20.2	11.6	8.9	10.8
28	19.9	16.0	18.2	12.6	10.3	11.2
29	20.2	15.9	17.9	11.6	9.4	10.6
30	19.8	16.9	18.4	---	---	---
31	19.2	16.4	18.0	---	---	---
Max	---	---	---	---	---	---
Min	---	---	---	---	---	---