Water-Data Report 2011

08057410 Trinity River below Dallas, TX

Upper Trinity Basin
Upper Trinity Subbasin

LOCATION.--Lat 32°42′27″, long 96°44′08″ referenced to North American Datum of 1927, Dallas County, TX, Hydrologic Unit 12030105, on left bank at downstream side of bridge on South Loop Highway 12, 1.0 mi downstream from White Rock Creek, 1.5 mi upstream from Fivemile Creek, 6.4 mi southeast of Dallas County Courthouse in Dallas, and at mile 491.8.

DRAINAGE AREA.--6,278 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Nov. 1956 to Sept. 1999, Oct. 2002 to current year.

REVISED RECORDS.--WDR TX-94-1: 1989.

GAGE.--Water-stage recorder. Datum of gage is 365.89 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair. Some records listed in the Period of Record for surface water and water quality may not be available electronically. Since installation of gage, at least 10% of contributing drainage area has been regulated. Several cities within the Dallas-Fort Worth metroplex divert water for municipal use and return it to the river as wastewater effluents above this station. Low flows are sustained by wastewater effluents.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood on May 25, 1908, reached a stage of 41.1 ft, from information by U.S. Army Corps of Engineers, and is the highest since that date. Floods in 1866 and 1908 reached about the same stage at Dallas.

08057410 Trinity River below Dallas, TX—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,650	1,020	622	1,040	1,460	905	709	883	807	599	581	504
2	1,600	1,670	612	809	1,790	811	705	4,490	759	592	566	503
3	1,550	5,660	611	759	1,270	777	677	11,800	699	586	568	509
4	1,590	4,200	618	728	1,050	765	e3,580	4,990	658	592	582	501
5	1,250	1,540	663	707	1,200	742	4,210	1,610	632	611	581	505
6	1,070	1,010	666	688	1,850	743	1,320	1,070	684	598	580	527
7	1,030	829	647	672	2,100	736	822	900	719	597	576	517
8	1,030	748	645	657	1,510	747	757	832	653	596	584	502
9	1,010	723	628	2,640	1,360	740	724	818	629	566	585	506
10	1,000	724	648	6,480	1,460	739	703	775	658	561	581	504
11	1,010	725	637	2,370	1,210	715	3,940	1,310	627	577	592	500
12	1,040	857	646	1,360	1,090	704	3,920	5,830	622	577	602	516
13	1,010	1,200	645	1,080	1,050	710	1,350	2,960	631	587	1,410	512
14	988	996	651	985	1,010	794	898	1,270	642	587	1,660	508
15	986	799	654	983	955	744	1,220	1,360	636	578	767	498
16	966	862	656	1,350	887	721	1,260	1,080	638	580	589	534
17	944	993	630	1,320	871	711	831	907	631	571	588	1,210
18	961	838	615	1,130	870	728	755	1,080	621	569	572	1,320
19	968	704	607	1,050	1,030	709	805	734	614	570	557	1,700
20	958	660	614	1,260	1,020	696	1,460	888	633	580	537	837
21	941	656	611	998	828	709	1,150	3,150	e5,060	578	528	656
22	943	662	639	813	938	713	824	2,060	e7,700	573	535	598
23	1,220	661	612	798	1,070	717	749	e3,380	4,080	567	544	571
24	4,140	655	996	887	830	700	720	e6,060	1,190	556	542	543
25	2,210	654	2,800	896	1,150	692	1,400	e7,520	832	563	534	525
26	1,400	642	1,660	789	996	686	1,870	4,630	705	580	571	537
27	1,150	608	990	771	799	676	1,090	2,220	640	566	538	531
28	1,060	610	1,220	763	966	680	800	1,450	649	593	526	535
29	1,010	633	2,950	750	---	693	728	1,090	623	567	528	582
30	970	633	3,240	779	---	642	781	960	613	561	523	592
31	1,010	---	1,410	1,040	---	695	---	888	---	557	505	---
Total	38,665	33,172	29,843	37,352	32,620	22,540	40,758	78,995	35,285	17,935	19,532	18,883
Mean	1,247	1,106	963	1,205	1,165	727	1,359	2,548	1,176	579	630	629
Max	4,140	5,660	3,240	6,480	2,100	905	4,210	11,800	7,700	611	1,660	1,700
Min	941	608	607	657	799	642	677	734	613	556	505	498
Ac-ft	76,690	65,800	59,190	74,090	64,700	44,710	80,840	156,700	69,990	35,570	38,740	37,450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2011[h], BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,807	2,025	2,008	1,737	2,266	2,936	2,808	4,486	3,691	1,887	1,200	1,318
Max	10,220	14,350	14,010	15,370	11,750	11,010	10,010	29,980	17,720	12,350	6,144	7,521
(WY)	(1982)	(1982)	(1992)	(1992)	(1992)	(1997)	(1990)	(1990)	(1989)	(2007)	(2007)	(1962)
Min	268	231	228	178	265	316	373	432	316	330	228	259
(WY)	(1964)	(1957)	(1957)	(1957)	(1957)	(1959)	(1959)	(1961)	(1960)	(1964)	(1959)	(1959)

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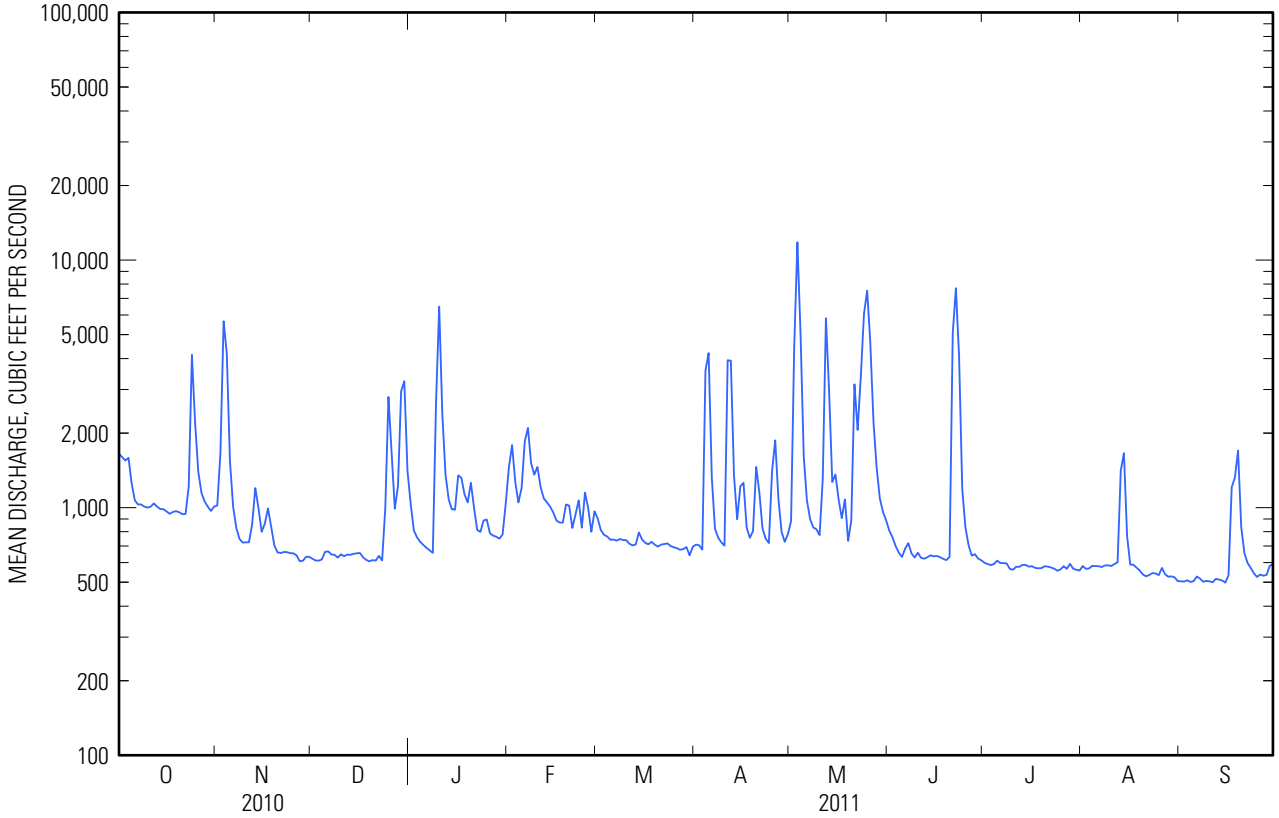
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1957 - 2011[h]	
Annual total	1,264,232		405,580			
Annual mean	3,464		1,111		2,313	
Highest annual mean					7,319	1982
Lowest annual mean					383	1959
Highest daily mean	35,500	Sep 9	11,800	May 3	79,200	May 4, 1990
Lowest daily mean	495	Jun 23	498	Sep 15	131	Dec 9, 1956
Annual seven-day minimum	535	Jun 18	506	Sep 9	147	Dec 7, 1956
Maximum peak flow			12,600	May 3	87,000	May 4, 1990
Maximum peak stage			22.17	May 3	34.79	May 4, 1990
Annual runoff (ac-ft)	2,508,000		804,500		1,676,000	
10 percent exceeds	9,090		1,660		6,360	
50 percent exceeds	1,350		743		810	
90 percent exceeds	649		561		379	

[h] See Period of Record paragraph.



WATER-QUALITY RECORDS

PERIOD OF RECORD.--
CHEMICAL DATA: Oct. 1967 to Sept. 1999, Oct. 2001 to current year.
BIOCHEMICAL DATA: Oct. 1967 to Sept. 1999, Oct. 2001 to current year.
BIOLOGICAL DATA: Nov. 1992 to Sept. 1997, July 2002 to July 2006.
PESTICIDE DATA: Oct. 1970 to July 1981, Nov. 1992 to Sept. 1999, Oct. 2001 to current year.
RADIOCHEMICAL DATA: Mar. to July 1981, Nov. 1992, Sept. 1996, Sept. 1997.
SEDIMENT DATA: Apr. 1972 to Apr. 1975, Nov. 1992 to Aug. 1995, Sept. 1998 to Sept. 1999, Oct. 2001 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Oct. 1967 to Sept. 1992, Apr. 1993 to Sept. 1999.
pH: Jan. 1977 to Sept. 1992, Apr. 1993 to Sept. 1999.
WATER TEMPERATURE: Oct. 1967 to Sept. 1992, Apr. 1993 to Sept. 1999.
DISSOLVED OXYGEN: Jan. 1977 to Sept. 1992, Apr. 1993 to Sept. 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 1,130 microsiemens/cm, Dec. 17, 1977; minimum, 112 microsiemens/cm, Oct. 20, 1984.
pH: Maximum, 8.8 standard units, Jan. 23, 1980; minimum, 6.5 standard units, Jan. 1,2 4, and 5, 1997.
WATER TEMPERATURE: Maximum, 35.0°C, Aug. 20, 25, 28, 31, 1972; minimum, 1.0°C, Jan. 29, 1968.
DISSOLVED OXYGEN: Maximum, 12.8 mg/L, Mar. 19, 1990; minimum, 0.0 mg/L, on many days during spring and summer of 1977-1981.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 12

[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Medium name	Sample type	Barometric pressure, mm Hg (00025)	Tempera-ture, air, °C (00020)	Discharge, instanta-neous, ft³/s (00061)	Dissolved oxygen, water, unfiltered, mg/L (00300)	pH, water, unfiltered, field, standard units (00400)
10-13-2010	**1400**	Surface water	Regular	758	25.8	1,010	7.5	7.7
11-08-2010	**1500**	Surface water	Regular	751	--	766	8.7	7.5
12-07-2010	**1430**	Surface water	Regular	755	12.7	630	14.4	7.5
01-11-2011	**1400**	Surface water	Regular	766	.2	2,020	11.8	7.6
01-11-2011	***1402***	*QC sample - Surface water*	*Spike*	--	--	--	--	--
02-07-2011	**1400**	Surface water	Regular	758	8.1	2,370	12.3	7.6
03-07-2011	**1400**	Surface water	Regular	750	20.3	730	9.4	7.5
04-04-2011	***1350***	*QC sample - Artificial*	*Blank*	--	--	--	--	--
04-04-2011	**1400**	Surface water	Regular	753	18.2	4,180	9.2	9.3
04-19-2011	***1350***	*QC sample - Artificial*	*Blank*	--	--	--	--	--
04-19-2011	**1400**	Surface water	Regular	745	34.4	733	8.7	7.5
05-11-2011	**0900**	Surface water	Regular	747	28.3	708	7.5	7.2
05-11-2011	***0910***	*QC sample - Surface water*	*Replicate*	*747*	*28.4*	--	*7.5*	*7.2*
05-25-2011	**1100**	Surface water	Regular	746	29.2	7,190	6.3	7.6
06-08-2011	**0900**	Surface water	Regular	750	32.8	646	6.9	7.3
06-22-2011	**1030**	Surface water	Regular	751	32.8	--	4.7	7.6
07-05-2011	**1400**	Surface water	Regular	752	41.6	603	8.3	7.7
07-19-2011	**0900**	Surface water	Regular	752	35.0	560	6.6	7.4
08-10-2011	**1030**	Surface water	Regular	746	35.4	580	6.6	7.3
08-23-2011	**1030**	Surface water	Regular	750	38.6	535	7.2	7.3
09-07-2011	**1030**	Surface water	Regular	755	27.6	505	6.7	7.1
09-20-2011	**1030**	Surface water	Regular	752	27.6	830	5.7	7.4

08057410 Trinity River below Dallas, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 12

[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Specific conductance, water, unfiltered, µS/cm at 25 °C (00095)	Temperature, water, °C (00010)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as $CaCO_3$ (39086)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)	Ammonia, water, filtered, mg/L as N (00608)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)
10-13-2010	**1400**	781	24.7	118	144	78.6	82.5	.576	11.8
11-08-2010	**1500**	657	18.6	101	123	57.7	77.0	.042	9.32
12-07-2010	**1430**	742	15.0	92.6	113	77.2	87.8	.036	13.8
01-11-2011	**1400**	453	8.2	51.6	62.9	30.2	61.0	.157	3.06
01-11-2011	***1402***	--	--	--	--	--	--	--	--
02-07-2011	**1400**	592	8.9	110	134	47.5	86.3	.232	4.05
03-07-2011	**1400**	842	16.4	114	139	91.5	111	.106	14.0
04-04-2011	***1350***	--	--	--	--	*< .06*	*< .09*	*.011*	*< .02*
04-04-2011	**1400**	309	21.9	78.0	95.2	45.6	61.4	.410	7.50
04-19-2011	***1350***	--	--	--	--	--	--	--	--
04-19-2011	**1400**	782	24.6	108	132	79.9	94.3	.019	13.1
05-11-2011	**0900**	746	24.7	108	132	70.9	91.5	.167	12.7
05-11-2011	***0910***	*745*	*24.7*	*108*	*132*	*70.3*	*91.4*	*.167*	*12.5*
05-25-2011	**1100**	323	24.3	75.6	92.2	18.9	39.1	.143	1.35
06-08-2011	**0900**	745	28.2	91.0	111	78.0	88.4	.030	13.2
06-22-2011	**1030**	322	25.8	75.8	92.4	20.4	36.7	.085	1.48
07-05-2011	**1400**	821	31.2	96.2	117	93.5	86.1	< .010	14.9
07-19-2011	**0900**	813	31.1	60.7	74.0	92.9	85.2	.048	15.4
08-10-2011	**1030**	831	30.7	87.1	106	99.2	79.0	.186	17.1
08-23-2011	**1030**	814	31.1	82.9	101	92.5	84.7	.139	15.8
09-07-2011	**1030**	799	26.6	65.9	80.4	93.0	84.4	.246	18.8
09-20-2011	**1030**	518	26.1	82.9	101	47.7	57.1	.122	5.38

08057410 Trinity River below Dallas, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Nitrite, water, filtered, mg/L as N (00613)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49295)	2,6-Diethylaniline, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82660)	2-Chloro-2',6'-diethylacetanilide, water, filtered, recoverable, µg/L (61618)	2-Chloro-4-isopropylamino-6-amino-s-triazine, water, filtered, recoverable, µg/L (04040)
10-13-2010	**1400**	.099	1.53	1.48	13.1	< .036	< .006	< .010	E .136
11-08-2010	**1500**	.016	1.02	1.07	11.1	< .036	< .006	< .010	E .090
12-07-2010	**1430**	.023	1.32	1.41	14.7	< .036	< .006	< .010	E .116
01-11-2011	**1400**	.018	.214	.404	3.96	< .036	< .006	< .010	E .082
01-11-2011	***1402***	--	--	--	--	*E .036*	*.086*	*.148*	*E .181*
02-07-2011	**1400**	.064	.362	.595	5.05	< .036	< .006	< .010	E .113
03-07-2011	**1400**	.027	1.77	2.12	15.1	< .036	< .006	< .010	E .134
04-04-2011	***1350***	*< .001*	*< .004*	*< .004*	*< .05*	--	--	--	--
04-04-2011	**1400**	.044	.726	1.68	9.84	< .036	< .006	< .010	E .127
04-19-2011	***1350***	--	--	--	--	*< .036*	*< .006*	*< .010*	*< .006*
04-19-2011	**1400**	.030	1.27	1.43	14.2	< .036	< .006	< .010	E .177
05-11-2011	**0900**	.029	1.47	1.56	14.7	< .036	< .006	< .010	E .143
05-11-2011	***0910***	*.029*	*1.45*	*1.54*	*13.7*	*< .036*	*< .006*	*< .010*	*E .147*
05-25-2011	**1100**	.044	.114	.53	2.97	< .036	< .006	< .010	E .115
06-08-2011	**0900**	.029	1.52	1.60	14.5	< .036	< .006	< .010	E .161
06-22-2011	**1030**	.037	.171	.60	13.9	< .036	< .006	< .010	E .081
07-05-2011	**1400**	.038	1.62	1.67	16.3	< .036	< .006	< .010	E .170
07-19-2011	**0900**	.037	1.66	1.65	15.2	< .036	< .006	< .010	E .217
08-10-2011	**1030**	.059	1.75	1.87	16.2	< .036	< .006	< .010	E .158
08-23-2011	**1030**	.051	1.87	1.86	16.8	< .036	< .006	< .010	E .161
09-07-2011	**1030**	.057	2.37	2.33	18.8	< .036	< .006	< .010	E .183
09-20-2011	**1030**	.042	.637	.842	6.60	< .036	< .006	< .010	E .088

08057410 Trinity River below Dallas, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	2-Ethyl-6-methyl-aniline, water, filtered, recover-able, µg/L (61620)	3,4-Dichloro-aniline, water, filtered, recover-able, µg/L (61625)	3,5-Di-chloro-aniline, water, filtered, recover-able, µg/L (61627)	4-Chloro-2-methyl-phenol, water, filtered, recover-able, µg/L (61633)	Aceto-chlor, water, filtered, recover-able, µg/L (49260)	Alachlor, water, filtered, recover-able, µg/L (46342)	alpha-Endo-sulfan, water, filtered, recover-able, µg/L (34362)	Atrazine, water, filtered, recover-able, µg/L (39632)	Azinphos-methyl oxygen analog, water, filtered, recover-able, µg/L (61635)
10-13-2010	1400	< .010	E .049	< .004	< .005	< .010	< .008	< .006	.155	< .04
11-08-2010	1500	< .010	E .009	< .004	< .005	< .010	< .010	< .006	.186	< .04
12-07-2010	1430	< .010	E .014	< .004	< .005	< .010	< .008	< .006	.183	< .04
01-11-2011	1400	< .010	E .013	< .004	< .005	< .010	< .011	< .006	.260	< .04
01-11-2011	*1402*	*E .079*	*E .057*	*.078*	*E .072*	*.142*	*.143*	*.104*	*.340*	*E .10*
02-07-2011	1400	< .010	E .016	< .004	< .005	< .010	< .011	< .006	.232	< .04
03-07-2011	1400	< .010	E .017	< .004	< .005	< .010	.017	< .006	.205	< .04
04-04-2011	*1350*	--	--	--	--	--	--	--	--	--
04-04-2011	1400	< .010	< .004	< .004	< .005	< .010	.013	< .006	1.08	< .04
04-19-2011	*1350*	*< .010*	*< .004*	*< .004*	*< .005*	*< .010*	*< .008*	*< .006*	*< .008*	*< .04*
04-19-2011	1400	< .010	E .018	< .004	< .005	< .010	< .014	< .006	.514	< .04
05-11-2011	0900	< .010	E .037	< .004	< .005	< .010	< .008	< .006	.327	< .04
05-11-2011	*0910*	*< .010*	*E .034*	*< .004*	*< .005*	*< .010*	*< .008*	*< .006*	*.332*	*< .04*
05-25-2011	1100	< .010	E .015	< .004	< .005	< .010	< .008	< .006	.470	< .04
06-08-2011	0900	< .010	E .015	< .004	< .005	< .010	< .008	< .006	.245	< .04
06-22-2011	1030	< .010	< .004	< .004	< .005	< .010	< .008	< .006	.265	< .04
07-05-2011	1400	< .010	E .021	< .004	< .005	< .010	< .008	< .006	.169	< .04
07-19-2011	0900	< .010	< .019	< .004	< .005	< .010	< .008	< .006	.193	< .04
08-10-2011	1030	< .010	E .026	< .004	< .005	< .010	< .012	< .006	.162	< .04
08-23-2011	1030	< .010	E .030	< .004	< .005	< .010	< .008	< .006	.152	< .04
09-07-2011	1030	< .010	E .040	< .004	< .005	< .010	< .008	< .006	.171	< .04
09-20-2011	1030	< .010	E .019	< .004	< .005	< .010	< .008	< .006	.120	< .04

08057410 Trinity River below Dallas, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82686)	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82673)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82680)	Carbofuran, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82674)	Chlorpyrifos oxygen analog, water, filtered, recoverable, µg/L (61636)	Chlorpyrifos, water, filtered, recoverable, µg/L (38933)	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82687)	cis-Propiconazole, water, filtered, recoverable, µg/L (79846)
10-13-2010	1400	< .120	< .014	< .060	< .060	< .06	< .004	< .010	E .193
11-08-2010	1500	< .120	< .014	E .011	< .060	< .06	< .004	< .010	E .200
12-07-2010	1430	< .120	< .014	< .060	< .060	< .06	< .004	< .010	E .055
01-11-2011	1400	< .120	< .014	E .014	< .060	< .06	< .004	< .010	E .015
01-11-2011	*1402*	*E .152*	*.116*	*E .149*	*E .177*	*E .04*	*.110*	*.085*	*E .074*
02-07-2011	1400	< .120	< .014	< .060	< .060	< .06	< .004	< .010	< .012
03-07-2011	1400	< .120	< .014	< .060	< .060	< .06	< .004	< .010	E .404
04-04-2011	*1350*	--	--	--	--	--	--	--	--
04-04-2011	1400	< .120	< .014	E .037	< .060	< .06	< .004	< .010	E .286
04-19-2011	*1350*	*< .120*	*< .014*	*< .060*	*< .060*	*< .06*	*< .004*	*< .010*	*< .008*
04-19-2011	1400	< .120	< .014	< .060	< .060	< .06	< .004	< .010	E .735
05-11-2011	0900	< .120	< .014	< .060	< .060	< .06	< .004	< .010	E .114
05-11-2011	*0910*	*< .120*	*< .014*	*< .060*	*< .060*	*< .06*	*< .004*	*< .010*	*E .115*
05-25-2011	1100	< .120	< .014	E .030	< .060	< .06	< .004	< .010	E .032
06-08-2011	0900	< .120	< .014	< .060	< .060	< .06	< .004	< .010	E .047
06-22-2011	1030	< .120	< .014	E .060	< .060	< .06	< .004	< .010	E .020
07-05-2011	1400	< .120	< .014	< .060	< .060	< .06	< .004	< .010	E .021
07-19-2011	0900	< .120	< .014	< .060	< .060	< .06	< .004	< .010	E .036
08-10-2011	1030	< .120	< .014	< .060	< .060	< .06	< .004	< .010	E .036
08-23-2011	1030	< .120	< .014	< .060	< .060	< .06	< .004	< .010	E .018
09-07-2011	1030	< .120	< .014	< .060	< .060	< .06	< .004	< .010	E .016
09-20-2011	1030	< .120	< .014	< .060	< .060	< .06	< .004	< .010	E .010

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Cyanazine, water, filtered, recoverable, µg/L (04041)	Cyfluthrin, water, filtered, recoverable, µg/L (61585)	Cypermethrin, water, filtered, recoverable, µg/L (61586)	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82682)	Desulfinylfipronil amide, water, filtered, recoverable, µg/L (62169)	Desulfinylfipronil, water, filtered, recoverable, µg/L (62170)	Diazinon, water, filtered, recoverable, µg/L (39572)	Dichlorvos, water, filtered, recoverable, µg/L (38775)	Dicrotophos, water, filtered, recoverable, µg/L (38454)
10-13-2010	1400	< .022	< .016	< .020	< .008	E .003	.004	< .006	< .04	< .08
11-08-2010	1500	< .022	< .016	< .020	.002	E .006	.005	< .006	< .04	< .08
12-07-2010	1430	< .022	< .016	< .020	< .008	< .029	.007	< .006	< .04	< .08
01-11-2011	1400	< .022	< .016	< .020	.004	E .004	.009	< .006	< .04	< .08
01-11-2011	*1402*	*.129*	*E .088*	*E .074*	*.119*	*E .155*	*.132*	*.116*	*E .03*	*E .07*
02-07-2011	1400	< .022	< .016	< .020	< .008	E .005	.008	< .006	< .04	< .08
03-07-2011	1400	< .022	< .016	< .020	.003	E .010	.008	< .006	< .04	< .08
04-04-2011	*1350*	--	--	--	--	--	--	--	--	--
04-04-2011	1400	< .022	< .016	< .020	.003	E .004	.009	< .006	< .04	< .08
04-19-2011	*1350*	*< .022*	*< .016*	*< .020*	*< .008*	*< .029*	*< .012*	*< .006*	*< .04*	*< .08*
04-19-2011	1400	< .042	< .016	< .020	< .008	E .007	.009	< .006	< .04	< .08
05-11-2011	0900	< .022	< .016	< .020	< .008	E .004	.007	< .006	< .04	< .08
05-11-2011	*0910*	*< .022*	*< .016*	*< .020*	*< .008*	*E .004*	*.008*	*< .006*	*< .04*	*< .08*
05-25-2011	1100	< .022	< .016	< .020	< .008	E .007	.011	< .022	< .04	< .08
06-08-2011	0900	< .022	< .016	< .020	< .008	E .006	.008	< .006	< .04	< .08
06-22-2011	1030	< .022	< .016	< .020	< .008	E .004	.009	< .006	< .04	< .08
07-05-2011	1400	< .022	< .016	< .020	< .008	E .004	.006	< .006	< .04	< .08
07-19-2011	0900	< .022	< .016	< .020	< .008	< .029	.008	< .006	< .04	< .08
08-10-2011	1030	< .022	< .016	< .020	< .008	< .029	.008	< .006	< .04	< .08
08-23-2011	1030	< .022	< .016	< .028	< .008	E .003	.007	< .006	< .04	< .08
09-07-2011	1030	< .022	< .016	< .020	< .008	< .029	.006	< .006	< .04	< .08
09-20-2011	1030	< .022	< .016	< .049	.002	E .003	.005	< .006	< .04	< .08

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Dieldrin, water, filtered, recoverable, µg/L (39381)	Dimethoate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82662)	Disulfoton sulfone, water, filtered, recoverable, µg/L (61640)	Disulfoton, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82677)	Endosulfan sulfate, water, filtered, recoverable, µg/L (61590)	EPTC, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82668)	Ethion monoxon, water, filtered, recoverable, µg/L (61644)	Ethion, water, filtered, recoverable, µg/L (82346)	Ethoprop, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82672)
10-13-2010	1400	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
11-08-2010	1500	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
12-07-2010	1430	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
01-11-2011	1400	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
01-11-2011	*1402*	*.105*	*E .084*	*.13*	*E .05*	*.113*	*.095*	*E .15*	*.137*	*.158*
02-07-2011	1400	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
03-07-2011	1400	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
04-04-2011	*1350*	--	--	--	--	--	--	--	--	--
04-04-2011	1400	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
04-19-2011	*1350*	*< .008*	*< .006*	*< .01*	*< .04*	*< .016*	*< .006*	*< .02*	*< .008*	*< .016*
04-19-2011	1400	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
05-11-2011	0900	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
05-11-2011	*0910*	*< .008*	*< .006*	*< .01*	*< .04*	*< .016*	*< .006*	*< .02*	*< .008*	*< .016*
05-25-2011	1100	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
06-08-2011	0900	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
06-22-2011	1030	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
07-05-2011	1400	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
07-19-2011	0900	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
08-10-2011	1030	< .009	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
08-23-2011	1030	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
09-07-2011	1030	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016
09-20-2011	1030	< .008	< .006	< .01	< .04	< .016	< .006	< .02	< .008	< .016

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Fenamiphos sulfone, water, filtered, recoverable, µg/L (61645)	Fenamiphos sulfoxide, water, filtered, recoverable, µg/L (61646)	Fenamiphos, water, filtered, recoverable, µg/L (61591)	Fipronil sulfide, water, filtered, recoverable, µg/L (62167)	Fipronil sulfone, water, filtered, recoverable, µg/L (62168)	Fipronil, water, filtered, recoverable, µg/L (62166)	Fonofos, water, filtered, recoverable, µg/L (04095)	Hexazinone, water, filtered, recoverable, µg/L (04025)	Iprodione, water, filtered, recoverable, µg/L (61593)
10-13-2010	1400	< .054	< .08	< .03	.004	.005	E .016	< .005	< .008	< .014
11-08-2010	1500	< .054	< .08	< .03	E .005	E .006	E .005	< .005	< .008	< .014
12-07-2010	1430	< .054	< .08	< .03	.006	< .024	E .026	< .005	< .008	< .014
01-11-2011	1400	< .054	< .08	< .03	.008	.007	E .021	< .005	< .008	< .014
01-11-2011	*1402*	*.170*	*E .07*	*.17*	*.153*	*.159*	*E .201*	*.101*	*.105*	*E .063*
02-07-2011	1400	< .054	< .08	< .03	.008	.005	E .014	< .005	< .009	< .014
03-07-2011	1400	< .054	< .08	< .03	.008	E .016	E .041	< .005	< .008	< .014
04-04-2011	*1350*	--	--	--	--	--	--	--	--	--
04-04-2011	1400	< .054	< .08	< .03	.005	.011	E .040	< .005	< .008	< .014
04-19-2011	*1350*	*< .054*	*< .08*	*< .03*	*< .012*	*< .024*	*< .018*	*< .005*	*< .008*	*< .014*
04-19-2011	1400	< .054	< .08	< .03	.009	< .024	E .011	< .005	< .008	< .014
05-11-2011	0900	< .054	< .08	< .03	.005	.007	E .022	< .005	< .008	< .014
05-11-2011	*0910*	*< .054*	*< .08*	*< .03*	*.006*	*.008*	*E .025*	*< .005*	*< .008*	*< .014*
05-25-2011	1100	< .054	< .08	< .03	.008	.015	E .030	< .005	< .011	< .014
06-08-2011	0900	< .054	< .08	< .03	< .012	< .024	< .018	< .005	< .008	< .014
06-22-2011	1030	< .054	< .08	< .03	.026	.011	E .033	< .005	< .008	< .014
07-05-2011	1400	< .054	< .08	< .03	< .012	< .024	< .018	< .005	< .008	< .014
07-19-2011	0900	< .054	< .08	< .03	.008	< .024	< .018	< .005	.029	< .014
08-10-2011	1030	< .054	< .08	< .03	.009	< .024	E .018	< .005	< .008	< .014
08-23-2011	1030	< .054	< .08	< .03	.009	.012	E .029	< .005	< .010	< .014
09-07-2011	1030	< .054	< .08	< .03	.005	< .024	E .037	< .005	< .008	< .014
09-20-2011	1030	< .054	< .08	< .03	.005	.007	E .011	< .005	< .008	< .014

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Isofenphos, water, filtered, recoverable, µg/L (61594)	lambda-Cyhalothrin, water, filtered, recoverable, µg/L (61595)	Malaoxon, water, filtered, recoverable, µg/L (61652)	Malathion, water, filtered, recoverable, µg/L (39532)	Metalaxyl, water, filtered, recoverable, µg/L (61596)	Methidathion, water, filtered, recoverable, µg/L (61598)	Methyl paraoxon, water, filtered, recoverable, µg/L (61664)	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82667)	Metolachlor, water, filtered, recoverable, µg/L (39415)
10-13-2010	1400	< .006	< .010	< .022	< .016	1.48	< .012	< .01	< .008	< .020
11-08-2010	1500	< .006	< .010	< .022	< .016	< .014	< .012	< .01	< .008	.006
12-07-2010	1430	< .006	< .010	< .022	< .016	< .014	< .012	< .01	< .008	E .011
01-11-2011	1400	< .006	< .010	< .022	< .016	< .014	< .012	< .01	< .008	< .020
01-11-2011	*1402*	*.162*	*E .061*	*.123*	*.132*	*.182*	*.138*	*E .13*	*.149*	*.134*
02-07-2011	1400	< .006	< .010	< .022	< .016	< .014	< .012	< .01	< .008	.010
03-07-2011	1400	< .006	< .010	< .022	< .016	< .014	< .012	< .01	< .008	.011
04-04-2011	*1350*	--	--	--	--	--	--	--	--	--
04-04-2011	1400	< .006	< .010	< .022	< .016	< .014	< .012	< .04	< .008	.054
04-19-2011	*1350*	*< .006*	*< .010*	*< .022*	*< .016*	*< .014*	*< .012*	*< .01*	*< .008*	*< .020*
04-19-2011	1400	< .006	< .010	< .022	< .016	< .014	< .012	< .05	< .008	.022
05-11-2011	0900	< .006	< .010	< .022	< .016	< .014	< .012	< .08	< .008	.015
05-11-2011	*0910*	*< .006*	*< .010*	*< .022*	*< .016*	*< .014*	*< .012*	*< .08*	*< .008*	*.015*
05-25-2011	1100	< .006	< .010	< .022	< .021	< .014	< .012	< .01	< .008	.024
06-08-2011	0900	< .006	< .010	< .022	< .016	< .014	< .012	< .01	< .008	.016
06-22-2011	1030	< .006	< .010	< .022	.016	< .014	< .012	< .01	< .008	.015
07-05-2011	1400	< .006	< .010	< .022	< .016	< .014	< .012	< .01	< .008	< .020
07-19-2011	0900	< .006	< .010	< .022	< .016	< .014	< .012	< .01	< .008	< .020
08-10-2011	1030	< .006	< .010	< .022	< .016	< .186	< .012	< .01	< .008	.009
08-23-2011	1030	< .006	< .010	< .022	< .016	< .014	< .012	< .01	< .008	.009
09-07-2011	1030	< .006	< .010	< .022	< .016	< .014	< .012	< .01	< .008	< .020
09-20-2011	1030	< .006	< .010	< .022	< .016	< .014	< .012	< .01	< .008	< .020

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Metribuzin, water, filtered, recoverable, µg/L (82630)	Molinate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82671)	Myclobutanil, water, filtered, recoverable, µg/L (61599)	Oxyfluorfen, water, filtered, recoverable, µg/L (61600)	Pendimethalin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82683)	Phorate oxygen analog, water, filtered, recoverable, µg/L (61666)	Phorate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82664)	Phosmet oxygen analog, water, filtered, recoverable, µg/L (61668)	Phosmet, water, filtered, recoverable, µg/L (61601)
10-13-2010	1400	< .012	< .004	.010	< .006	< .012	< .03	< .020	< .05	< .140
11-08-2010	1500	< .012	< .004	.015	< .006	< .012	< .03	< .020	< .05	< .140
12-07-2010	1430	< .012	< .004	< .010	< .006	< .012	< .03	< .020	< .05	< .140
01-11-2011	1400	< .012	< .004	.014	< .006	< .012	< .03	< .020	< .05	< .140
01-11-2011	*1402*	*.122*	*.122*	*.116*	*.114*	*.162*	*E .13*	*.067*	*< .05*	*< .140*
02-07-2011	1400	< .012	< .004	< .014	< .006	< .012	< .03	< .020	< .05	< .140
03-07-2011	1400	< .012	< .004	< .017	< .006	< .012	< .03	< .020	< .05	< .140
04-04-2011	*1350*	--	--	--	--	--	--	--	--	--
04-04-2011	1400	< .012	< .004	.020	< .006	.036	< .03	< .020	< .05	< .140
04-19-2011	*1350*	*< .012*	*< .004*	*< .010*	*< .006*	*< .012*	*< .03*	*< .020*	*< .05*	*< .140*
04-19-2011	1400	< .012	< .004	.015	< .006	< .012	< .03	< .020	< .05	< .140
05-11-2011	0900	< .012	< .004	< .012	< .006	< .012	< .03	< .020	< .05	< .140
05-11-2011	*0910*	*< .012*	*< .004*	*.013*	*< .006*	*< .012*	*< .03*	*< .020*	*< .05*	*< .140*
05-25-2011	1100	< .012	< .005	E .032	< .006	E .014	< .03	< .020	< .05	< .140
06-08-2011	0900	< .012	< .004	.015	< .006	< .012	< .03	< .020	< .05	< .140
06-22-2011	1030	< .012	< .004	.021	< .006	< .014	< .03	< .020	< .05	< .140
07-05-2011	1400	< .012	< .004	.010	< .006	< .012	< .03	< .020	< .05	--
07-19-2011	0900	< .012	< .004	< .010	< .006	< .012	< .03	< .020	< .05	--
08-10-2011	1030	< .012	< .004	.011	< .006	< .012	< .03	< .020	< .05	< .140
08-23-2011	1030	< .012	< .004	< .010	< .006	< .012	< .03	< .020	< .05	< .140
09-07-2011	1030	< .012	< .004	< .010	< .006	< .012	< .03	< .020	< .05	< .140
09-20-2011	1030	< .012	< .004	< .010	< .006	< .012	< .03	< .020	< .05	< .140

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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Prometon, water, filtered, recoverable, µg/L (04037)	Prometryn, water, filtered, recoverable, µg/L (04036)	Propanil, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82679)	Propargite, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82685)	Propyzamide, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82676)	Simazine, water, filtered, recoverable, µg/L (04035)	Tebuthiuron, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82670)	Tefluthrin, water, filtered, recoverable, µg/L (61606)	Terbufos oxygen analog sulfone, water, filtered, recoverable, µg/L (61674)
10-13-2010	**1400**	.008	< .006	< .010	< .02	< .004	.162	E 1.32	< .010	< .04
11-08-2010	**1500**	.009	< .006	< .010	< .02	< .004	.553	.04	< .010	< .04
12-07-2010	**1430**	.014	< .006	< .010	< .02	< .004	.291	E .06	< .010	< .04
01-11-2011	**1400**	.011	< .006	< .010	< .02	< .004	.978	< .03	< .010	< .04
01-11-2011	***1402***	*.131*	*.141*	*.176*	*.17*	*.140*	*.982*	*E .25*	*E .095*	*.14*
02-07-2011	**1400**	.009	< .006	< .010	< .02	< .004	.633	< .03	< .010	< .04
03-07-2011	**1400**	.013	< .006	< .010	< .02	< .004	.266	< .03	< .010	< .04
04-04-2011	***1350***	--	--	--	--	--	--	--	--	--
04-04-2011	**1400**	.012	< .006	< .010	< .02	< .004	.240	< .03	< .010	< .04
04-19-2011	***1350***	*< .012*	*< .006*	*< .010*	*< .02*	*< .004*	*< .006*	*< .03*	*< .010*	*< .04*
04-19-2011	**1400**	.014	< .006	< .010	< .02	< .004	.237	< .03	< .010	.07
05-11-2011	**0900**	.013	< .006	< .010	< .02	< .004	.117	< .03	< .010	< .04
05-11-2011	***0910***	*.014*	*< .006*	*< .010*	*< .02*	*< .004*	*.114*	*< .03*	*< .010*	*< .04*
05-25-2011	**1100**	.017	< .006	< .010	< .02	< .004	.152	< .03	< .010	< .04
06-08-2011	**0900**	.024	< .006	< .010	< .02	< .004	.085	< .03	< .010	< .04
06-22-2011	**1030**	.013	< .006	< .010	< .02	< .004	.078	< .03	< .010	< .04
07-05-2011	**1400**	< .012	< .006	< .010	< .02	< .004	.073	< .03	< .010	< .04
07-19-2011	**0900**	< .012	< .006	< .010	< .02	< .004	.091	< .03	< .010	< .04
08-10-2011	**1030**	< .012	< .006	< .010	< .02	< .004	.080	< .03	< .010	< .04
08-23-2011	**1030**	.011	< .006	< .010	< .02	< .004	.063	< .03	< .010	< .04
09-07-2011	**1030**	< .012	< .006	< .010	< .02	< .004	.072	< .03	< .010	< .04
09-20-2011	**1030**	.011	< .006	< .010	< .02	< .004	.118	< .03	< .010	< .04

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WATER-QUALITY DATA
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[$CaCO_3$, calcium carbonate; N, nitrogen; P, phosphorus; ft^3/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Sample start time	Terbufos, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82675)	Terbuthylazine, water, filtered, recoverable, µg/L (04022)	Thiobencarb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82681)	trans-Propiconazole, water, filtered, recoverable, µg/L (79847)	Tribuphos, water, filtered, recoverable, µg/L (61610)	Trifluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82661)	Suspended sediment concentration, mg/L (80154)
10-13-2010	1400	< .02	< .01	< .016	E .25	< .018	< .018	39
11-08-2010	1500	< .02	< .01	< .016	E .26	< .018	< .018	26
12-07-2010	1430	< .02	< .01	< .016	E .10	< .018	< .018	17
01-11-2011	1400	< .02	< .01	< .016	E .02	< .018	< .018	123
01-11-2011	*1402*	*.12*	*.12*	*.121*	*E .10*	*E .126*	*.134*	--
02-07-2011	1400	< .02	< .01	< .016	< .02	< .018	< .018	168
03-07-2011	1400	< .02	.04	< .016	E .59	< .023	< .018	92
04-04-2011	*1350*	--	--	--	--	--	--	*< 1*
04-04-2011	1400	< .02	< .01	< .016	E .34	< .018	.006	959
04-19-2011	*1350*	*< .02*	*< .01*	*< .016*	*< .01*	*< .018*	*< .018*	--
04-19-2011	1400	< .02	.01	< .016	E .75	< .018	< .018	60
05-11-2011	0900	< .02	< .01	< .016	E .16	< .020	< .018	90
05-11-2011	*0910*	*< .02*	*< .01*	*< .016*	*E .16*	*< .018*	*< .018*	*129*
05-25-2011	1100	< .02	< .01	< .016	E .05	< .018	< .018	--
06-08-2011	0900	< .02	< .01	< .016	E .07	< .018	< .018	--
06-22-2011	1030	< .02	< .01	< .016	E .03	< .018	< .018	--
07-05-2011	1400	< .02	< .01	< .016	E .04	< .018	< .018	--
07-19-2011	0900	< .02	< .01	< .016	E .07	< .018	< .018	62
08-10-2011	1030	< .02	< .01	< .016	E .05	< .018	< .018	28
08-23-2011	1030	< .02	< .01	< .016	E .02	< .022	< .018	43
09-07-2011	1030	< .02	< .01	< .016	E .02	< .018	< .018	44
09-20-2011	1030	< .02	< .01	< .016	E .01	< .018	< .018	83