DEPARTMENT OF THE ARMY
SAN FRANCISCO DISTRICT, CORPS OF ENGINEERS
333 MARKET STREET
SAN FRANCISCO, CALIFORNIA 94105-2197

SCVWD96SEP26'96PM 2:18

REPLY TO
ATTENTION OF.

JUL 22 1996

ORIGINAL DOCUMENT IN FILE

Regulatory Branch (1145b)

SUBJECT: File Number 17776S18

Ms. Louisa Squires
Santa Clara Valley Water District
Environmental Planning Division
5750 Almaden Expressway
San Jose, California 95118-3686

Dear Ms. Squires:

Thank you for your submittal of 28 August, 1995, requesting confirmation of the extent of Corps of Engineers jurisdiction for the Upper Guadalupe River Flood Control Project in the City of San Jose, Santa Clara County, California.

Enclosed are the maps showing the extent and location of Corps of Engineers jurisdiction on April 23, 1996.

We have based this jurisdictional delineation on the current conditions of the site. A change in those conditions may also change the extent of our jurisdiction. This jurisdictional delineation will expire in five years from the date of this letter. However, if there has been a change in circumstances which effects the extent of Corps jurisdiction, a revision may be done before that date.

If you have any questions, please call Bob Smith of our Regulatory Branch at telephone 415-977-8450. Please address correspondence to the District Engineer, Attention: Regulatory Branch, and refer to the file number at the head of this letter.

Sincerely,
ORIGINAL SIGNED
By
Calvin C. Fong
For
Max R. Blodgett
Chief, Construction-Operations
Division

Enclosure

TAB. H-1

Mean Average Annual Wet Weather Loads by Watershed (Based on arithmetic average of 12 years estimated annual load)

Watershed	Total Area (miles)	Flow (acre-feet)				Cadmium (lbs/year)				Chromium (lbs/year)			
		Ind	Res	Open	Total	Ind	Res	Open	Total	Ind	Res	Open	Total
Adobe, Barron, and Matadero	34	0	6,485	1,511	7,997	0.0	38.8	3.1	42.0	0	713	79	791
Calabazas	21	0	5,071	663	5,734	0.0	30.4	1.4	31.7	0	557	35	592
Coyote	123	1,357	6,085	5,904	13,345	27.7	36.4	12.3	76.4	276	669	307	1,252
Guadalupe	90	2,170	15,649	8,108	25,927	44.3	93.7	16.8	154.9	442	1,719	422	2,583
Los Gatos	18	0	2,764	283	3,047	0.0	16.6	0.6	17.1	0	304	15	318
Permanente	18	0	1,567	3,146	4,713	0.0	9.4	6.5	15.9	0	172	164	336
San Francisquito	8	0	552	846	1,398	0.0	3.3	1.8	5.1	0	61	44	105
San Tomas	27	1,332	5,694	979	8,005	27.2	34.1	2.0	63.4	271	626	51	948
Saratoga	17	0	938	4,634	5,572	0.0	5.6	9.6	15.2	0	103	241	344
Stevens Creek	12	0	1,415	130	1,546	0.0	8.5	0.3	8.7	0	155	7	162
Sunnyvale East	7	0	1,677	0	1,677	0.0	10.0	0.0	10.0	0	184	0	184
Sunnyvale West	5	0	1,320	1	1,321	0.0	7.9	0.0	7.9	0	145	0	145
TOTAL	380	4,859	49,218	26,205	80,283	99.3	294.8	54.4	448.5	989	5,407	1,364	7,761

Watershed	Total Area (miles)	Copper (lbs/year)				Lead (lbs/year)				Nickel (lbs/year)			
		Ind	Res	Open	Total	Ind	Res	Open	Total	Ind	Res	Open	Total
Adobe, Barron, and Matadero	34	0	1,339	56	1,395	0	1,354	21	1,375	0	1,663	174	1,838
Calabazas	21	0	1,047	24	1,072	0	1,059	9	1,068	0	1,300	77	1,377
Coyote	123	293	1,257	217	1,767	622	1,271	81	1,974	459	1,560	681	2,701
Guadalupe	90	469	3,232	298	3,999	995	3,268	111	4,375	735	4,013	935	5,683
Los Gatos	18	0	571	10	581	0	577	4	581	0	709	33	741
Permanente	18	0	324	116	439	0	327	43	371	0	402	363	765
San Francisquito	8	0	114	31	145	0	115	12	127	0	142	96	239
San Tomas	27	288	1,176	36	1,500	611	1,189	13	1,814	451	1,460	113	2,024
Saratoga	17	0	194	171	364	0	196	64	260	0	241	535	775
Stevens Creek	12	0	292	5	297	0	296	2	297	0	363	15	378
Sunnyvale East	7	0	346	0	346	0	350	0	350	0	430	0	430
Sunnyvale West	5	0	273	0	273	0	276	0	276	0	338	0	339
TOTAL	380	1,051	10,164	964	12,179	2,228	10,279	360	12,867	1,645	12,622	3,023	17,290

TABLE H-1 (continued)

Mean Average Annual Wet Weather Loads by Watershed (Based on arithmetic average of 12 years estimated annual load)

Watershed	Total Area (miles)	Zinc (lbs/year)				NO3-N (lbs/year)				TKN (lbs/year)			
		Ind	Res	Open	Total	Ind	Res	Open	Total	Ind	Res	Open	Total
Adobe, Barron, and Matadero	34	0	3,598	33	3,632	0	14,232	853	15,085	0	32,673	3,807	36,480
Calabazas	21	0	2,814	15	2,828	0	11,128	374	11,502	0	25,546	1,670	27,216
Coyote	123	4,407	3,377	130	7,914	2,552	13,353	3,332	19,237	5,533	30,655	14,871	51,059
Guadalupe	90	7,050	8,684	179	15,913	4,083	34,342	4,575	43,000	8,851	78,837	20,423	108,112
Los Gatos	18	0	1,534	6	1,540	0	6,065	160	6,225	0	13,924	712	14,637
Permanente	18	0	870	69	939	0	3,439	1,775	5,214	0	7,895	7,925	15,820
San Francisquito	8	0	306	19	325	0	1,211	477	1,689	0	2,781	2,131	4,912
San Tomas	27	4,327	3,160	22	7,509	2,506	12,498	552	15,555	5,433	28,687	2,466	36,586
Saratoga	17	0	521	102	623	0	2,060	2,615	4,675	0	4,728	11,672	16,400
Stevens Creek	12	0	785	3	788	0	3,104	74	3,179	0	7,129	328	7,458
Sunnyvale East	7	0	931	0	931	0	3,680	0	3,680	0	8,448	0	8,448
Sunnyvale West	5	0	732	0	732	0	2,896	1	2,897	0	6,648	2	6,651
TOTAL	380	15,784	27,311	579	43,674	9,141	108,009	14,788	131,937	19,818	247,952	66,009	333,778

Watershed	Total Area (miles)	POP4-P (lbs/year)				BOD (lbs/year)				TSS (lbs/year)			
		Ind	Res	Open	Total	Ind	Res	Open	Total	Ind	Res	Open	Total
Adobe, Barron, and Matadero	34	0	13,737	2,028	15,765	0	187,408	22,448	209,857	0	4,897,439	1,274,789	6,172,228
Calabazas	21	0	10,741	890	11,630	0	146,528	9,850	156,378	0	3,829,129	559,356	4,388,485
Coyote	123	6,705	12,889	7,920	27,514	49,789	175,834	87,689	313,312	2,042,272	4,594,967	4,979,611	11,616,851
Guadalupe	90	10,727	33,148	10,877	54,752	79,652	452,206	120,427	652,284	3,267,171	11,817,256	6,838,700	21,923,126
Los Gatos	18	0	5,854	379	6,234	0	79,868	4,201	84,068	0	2,087,145	238,537	2,325,682
Permanente	18	0	3,319	4,221	7,540	0	45,284	46,730	92,014	0	1,183,381	2,653,663	3,837,044
San Francisquito	8	0	1,169	1,135	2,304	0	15,950	12,568	28,517	0	416,800	713,700	1,130,500
San Tomas	27	6,585	12,061	1,313	19,959	48,892	164,545	14,540	227,978	2,005,462	4,299,972	825,713	7,131,147
Saratoga	17	0	1,988	6,216	8,204	0	27,122	68,824	95,946	0	708,769	3,908,307	4,617,076
Stevens Creek	12	0	2,998	175	3,172	0	40,894	1,936	42,830	0	1,068,669	109,932	1,178,600
Sunnyvale East	7	0	3,552	0	3,552	0	48,460	0	48,460	0	1,266,371	0	1,266,371
Sunnyvale West	5	0	2,795	1	2,797	0	38,134	14	38,148	0	996,534	793	997,328
TOTAL	380	24,017	104,292	35,155	163,424	178,333	1,422,233	389,226	1,989,792	7,314,906	37,166,432	22,103,102	66,584,439

rce: 1991 Loads Assessment Report

TABLE H-2
SELECTED HISTORICAL WATER QUALITY DATA FOR THE GUADALUPE RIVER
U.S. GEOLOGICAL SURVEY WATER QUALITY FOR WATER YEARS
1949, 1968, 1969, 1979 to 1983, 1987 to March 1994

	Feb 8 1949	Nov 6 1967	Mar 7 1968	Oct 29 1968	May 20 1969	Aug 1 1979	Feb 19 1980	Sep 10 1980	Mar 27 1981	Sep 1 1981	Jan 5 1982	Sep 8 1982
Streamflow (cfs)	NA	1	14	2	NA	NA	7,900	0.53	3.7	728	943	2.8
Temperature (Celsius)	NA	14	14	15	10	NA	12.5	18	15.5	19.5	11	23
pH	NA	NA	NA	NA	NA	NA	6.8	7.8	8	8	7.9	7.5
Turbidity (NTUs)	NA	NA	NA	NA	NA	NA	800	4	16	2.6	270	1.5
Dissolv. Oxygen (mg/l)	NA	NA	NA	NA	NA	NA	NA	NA	84	9.8	10.5	116
Chemical Oxy. Demand (mg/l COD)	NA	NA	NA	NA	NA	NA	280	39	43	69	47	30
Hardness (mg/l $CaCO_3$)	140	NA	NA	NA	NA	NA	68	350	130	NA	113	200
Total Nitrogen (mg/l N)	NA	NA	NA	NA	NA	2.1	0.93	1.2	0.82	1.4	1.8	0.4
Total Phosphorus (mg/l P)	NA	NA	NA	NA	NA	0.07	2.8	0.22	0.21	0.24	0.25	0.09
Dissolv. Arsenic (µg/l As)	NA	NA	NA	NA	NA	NA	2	4	10	2	2	2
Dissolv. Cadmium (µg/l CD)	NA	<1.4	<1.4	<1.4	<1.4	<1	0	0	1	0	1	<1
Dissolv. Chromium (µg/l Cr)	NA	<1.4	<1.4	<1.4	<1.4	0	0	0	10	0	<10	<10
Dissolv. Copper (µg/l Cu)	NA	<1.4	<1.4	<1.4	<1.4	2	2	2	6	2	2	5
Dissolv. Lead (µg/l Pb)	NA	<1.4	<1.4	<1.4	<1.4	0	0	2	3	5	6	<1
Dissolv. Manganese (µg/l Mn)	NA	171	19	15	20	30	10	0	20	0	20	20
Dissolv. Mercury (µg/l Hg)	NA	NA	NA	NA	NA	0	0	0	0	0.36	<0.1	<0.1
Dissolv. Nickel (µg/l N)	NA	234	9.7	43	37	0	0	0	0	0	<100	<100
Dissolv. Selenium (µg/l Se)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolv. Silver (µg/l Ag)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolv. Zinc (µg/l Zn)	NA	<5.7	<5.7	<5.7	<5.7	6	190	10	20	40	10	30

ND = Not Detectable

NA = Not Available

Source: Engineering-Science 1994

Note: Data for Arsenic, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Silver, and Zinc are in total values from February 1992 to March 1994.

TABLE H-2 (continued)
SELECTED HISTORICAL WATER QUALITY DATA FOR THE GUADALUPE RIVER
U.S. GEOLOGICAL SURVEY WATER QUALITY FOR WATER YEARS
1949, 1968, 1969, 1979 to 1983, 1987 to March 1994

	Jan 27 1983	Aug 30 1983	Feb 9 1985	Sep 11 1985	Jan 28 1987	Aug 11 1987	Nov 17 1987	Aug 17 1988	Jul 25 1989	Oct 25 1989	Jan 13 1990	Feb 17 1990
Streamflow (cfs)	1,540	20	116	20	36	16	47	4.3	1	29	608	210
Temperature (Celsius)	NA	NA	10	17.5	13	22	16	21	21	16	NA	10
pH	7.9	8.3	8.2	8.4	8.1	8.4	8.1	8.2	7.8	7.6	7.3	8.1
Turbidity (NTUs)	350	4.5	30	24	17	8	17	5	4.4	44	76	42
Dissolv. Oxygen (mg/l)	10.6	10.6	10.8	9.4	92	10.4	8.6	7.9	8.6	8.1	NA	10.2
Chem. Oxy. Demand (mg/l COD)	46	24	27	10	24	<10	29	47	16	39	110	62
Hardness (mg/l $CaCO_3$)	99	350	220	340	180	340	220	350	380	110	52	120
Total Nitrogen (mg/l N)	0.8	2.9	2.1	3.2	1.7	2.3	2.8	2	1.2	1.2	2.1	2.1
Total Phosphorus (mg/l P)	0.6	0.05	0.1	0.05	0.1	0.09	0.13	0.06	0.07	0.19	0.27	0.25
Dissolv. Arsenic (µg/l As)	1	1	<1	1	2	1	1	1	1	NA	NA	NA
Dissolv. Cadmium (µg/l CD)	<1	<1	<1	1	<1	<1	<1	<1	<1	NA	NA	NA
Dissolv. Chromium (µg/l Cr)	<10	<10	<10	NA	<1	2	2	<1	<1	NA	NA	NA
Dissolv. Copper (µg/l Cu)	2	1	3	<1	2	<1	5	1	<1	NA	NA	NA
Dissolv. Lead (µg/l Pb)	<1	<1	2	1	<5	<5	<5	<5	<1	NA	NA	NA
Dissolv. Manganese (µg/l Mn)	10	12	8	20	10	9	13	12	16	NA	NA	NA
Dissolv. Mercury (µg/l Hg)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	NA	NA
Dissolv. Nickel (µg/l N)	<100	<100	<100	<100	<1	<1	5	3	1	NA	NA	NA
Dissolv. Selenium (µg/l Se)	NA	NA	NA	NA	1	3	1	3	3	NA	NA	NA
Dissolv. Silver (µg/l Ag)	NA	NA	NA	NA	<1	<1	<1	<1	<1	NA	NA	NA
Dissolv. Zinc (µg/l Zn)	70	9	<3	<10	8	<3	12	10	10	NA	NA	NA

ND = Not Detectable

NA = Not Available

Source: Engineering-Science 1994

Note: Data for Arsenic, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Silver, and Zinc are in total values from February 1992 to March 1994.

TABLE H-2 (continued)
SELECTED HISTORICAL WATER QUALITY DATA FOR THE GUADALUPE RIVER
U.S. GEOLOGICAL SURVEY WATER QUALITY FOR WATER YEARS
1949, 1968, 1969, 1979 to 1983, 1987 to March 1994

	Aug 27 1990	Mar 24 1991	Feb 11 1992	Dec 5 1992	Jan 5 1992	Feb 7 1993	Feb 17 1993	Mar 23 1993	Dec 14 1993	Jan 23 1994	Feb 7 1994	Mar 25 1994
Streamflow (cfs)	1.8	1,120	897	1.3	6	52	62	158	119	22	300	55
Temperature (Celsius)	20	11.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	7.8	8	NA	NA	NA	7.7	7.7	7.6	NA	NA	NA	NA
Turbidity (NTUs)	1.5	33	NA	260	110	90	250	80	70	27	130	100
Dissolv. Oxygen (mg/l COD)	7.5	10.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chem. Oxy. Demand (mg/l COD)	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hardness (mg/l $CaCO_3$)	310	160	NA	120	110	150	130	140	98	240	120	120
Total Nitrogen (mg/l N)	5.8	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorus (mg/l P)	0.11	0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolv. Arsenic (µg/l As)	NA	NA	***2.5***	***4***	***1.7***	***2.2***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***
Dissolv. Cadmium (µg/l CD)	NA	NA	***0.7***	***1.3***	***0.3***	***0.2***	***0.4***	***0.8***	***0.2***	***0.6***	***0.4***	***0.5***
Dissolv. Chromium (µg/l Cr)	NA	NA	***40***	***56***	***7.3***	***5.5***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***
Dissolv. Copper (µg/l Cu)	NA	NA	***33***	***54***	***18***	***7.9***	***20***	***24***	***19***	***15***	***20***	***26***
Dissolv. Lead (µg/l Pb)	NA	NA	***43***	***63***	***21***	***13***	***30***	***34***	***30***	***19***	***32***	***31***
Dissolv. Manganese (µg/l Mn)	NA	NA	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***
Dissolv. Mercury (µg/l Hg)	NA	NA	***ND***	***0.6***	***ND***	***ND***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***
Dissolv. Nickel (µg/l N)	NA	NA	***77***	***160***	***9.4***	***19***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***
Dissolv. Selenium (µg/l Se)	NA	NA	***0.22***	***0.47***	***0.43***	***0.43***	***NA***	***NA***	***NA***	***NA***	***NA***	***NA***
Dissolv. Silver (µg/l Ag)	NA	NA	***ND***	***ND***	***ND***	***ND***	***ND***	***ND***	***ND***	***ND***	***ND***	***ND***
Dissolv. Zinc (µg/l Zn)	NA	NA	***150***	***210***	***70***	***45***	***65***	***120***	***64***	***62***	***88***	***98***

ND = Not Detectable

NA = Not Available

Source: Engineering-Science 1994

Note: Data for Arsenic, Cadmium, Chromium, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Silver, and Zinc are in total values from February 1992 to March 1994. These data appear in bold/italic typeface.

TABLE H-3
Guadalupe River Permitted Outfalls

Creek Station	Study Reach	Creek Bank and Location	Size, Type	District I.D.	Invert elev.	Comments
740+50	7	W. Bank U/S of SPRR	30"RCP		93.0	
743+00	7	E. Bank at Hwy 87	30"RCP		88.5	Permit # 85326
745+10	7	W. Bank U/S of Hwy 87	33"[1]		88.5	Not found.
749+20	7	W. Bank D/S of Willow St	42"RCP		92.5	
749+30	7	E. Bank at Willow St	30"CMP	099GAC110	93.0	
749+95	7	E. Bank at Willow St	15"RCP	099GAC130	100.0	
750+05	7	W. Bank at Willow St	48"RCP	099GAC120	92.0	Permit # 87304
760+75	7	E. Bank U/S of Willow St	24"RCP	099GAC140	97.0	Permit # 88338
761+05	7	W. Bank U/S of Willow St	10"CMP		89.0	
767+50	7	W. Bank D/S of Alma Ave	24"CMP	099GAC180	97.5	
767+50	7	W. Bank D/S of Alma Ave	8"CMP		103.5	Permit # 89322
772+70	7	E. Bank D/S of Alma Ave	15"CMP	099GAC200	100.5	Permit # 90306
772+90	7	W. Bank at Alma Ave	30"CMP	099GAC220	103.5	
775+60	7	W. Bank U/S of Alma Ave	48"CMP	099GAC230	98.5	Permit # 83308
780+75	7	E. Bank D/S of UPRR	54"CMP	099GAC240	98.5	Permit # 68328, not found.
781+90	8	W. Bank U/S of UPRR	15"CMP	099GAC260	100.0	
781+90	8	W. Bank U/S of UPRR	24"CMP	099GAC250	103.5	Permit # 88317
783+40	8	E. Bank U/S of UPRR	10"CMP		110.0	
788+75	8	W. Bank U/S of UPRR	18"CMP		113.0	
795+00	8	E. Bank at Willow Glen Way	54"RCP	099GAC500	110.0	
803+75	9	W. Bank at Pine Ave	18"CMP	099GAC600	115.5	
812+00	9	E. Bank D/S of Malone Rd	18"CMP	099GAC630	116.5	
820+00	9	W. Bank D/S of Malone Rd	10"CMP		125.5	
821+50	9	W. Bank at Malone Rd	33"CMP	099GAC710	112.0	
823+80	9	E. Bank U/S of Malone Rd	66"CMP	099GAC720	111.0	Permit # 77320
830+95	9	W. Bank U/S of Malone Rd	12"CMP	099GAC760	128.0	Permit # 85303
835+00	9	E. Bank U/S of Malone Rd	15"CMP	099GAC800	127.5	

TABLE H-3 (continued)
Guadalupe River Permitted Outfalls

Creek Station	Study Reach	Creek Bank and Location	Size, Type	District I.D.	Invert elev.	Comments
838+10	9	E. Bank D/S of Curtner Ave	6'X6' RCB		121.5	May be old and no longer in use.
841+45	9	E. Bank D/S of Curtner Ave	15"CMP	099GAC830	133.0	Permit # 78345
842+50	10A	W. Bank at Curtner Ave	42"CMP	099GAC850	118.5	
842+60	10A	W. Bank at Curtner Ave	8"CMP	099GAC860	124.0	
844+50	10A	E. Bank U/S of Curtner Ave	10"ABS		137.0	Not found.
853+00	10A	E. Bank D/S of S. Bound Almaden Expwy	18"CMP		134.0	Approximate elevation, not found.
854+00	10A	E. Bank D/S of S. Bound Almaden Expwy	18"CMP		136.0	Approximate elevation, not found.
858+75	10B	E. Bank U/S of S. Bound Almaden Expwy	12"CMP		135.0	
868+50	10B	W. Bank D/S of N. Bound Almaden Expwy	36"RCP		129.0	
872+00	10B	E. Bank at N. Bound Almaden Expwy	18"CMP		137.5	
880+00	10B	W. Bank U/S of N. Bound Almaden Expwy	66"RCP	114GAC245	131.5	
882+00	10B	W. Bank U/S of N. Bound Almaden Expwy	Two 18"CMP		145.5	Permit # 69344
885+20	10B	W. Bank U/S of N. Bound Almaden Expwy	18"CMP		137.0	Not found; may have been removed.
886+30	10B	W. Bank U/S of N. Bound Almaden Expwy	24"CMP		140.5	
899+05	10C	W. Bank D/S of Hillsdale Ave	18"CMP	114GAC400	146.0	New rip-rap protection
904+20	10C	W. Bank D/S of Hillsdale Ave	48"CMP	114GAC440	140.0	
906+50	10C	E. Bank at Hillsdale Ave	30"CMP	114GAC460	143.5	Not found.
909+40	10C	W. Bank D/S of Capitol Expwy	54"CMP	114GAC470	141.5	
909+80	10C	W. Bank D/S of Capitol Expwy	36"CMP	114GAC480	141.5	
911+50	11	E. Bank U/S of Capitol Expwy	48"[1]		140.5	Not found.
916+50	11	E. Bank U/S of Capitol Expwy	27"[1]		144.0	Permit # 71312, not found.
925+00	11	W. Bank U/S of Capitol Expwy	15"[1]		150.0	Not found.
929+10	11	W. Bank U/S of Capitol Expwy	15"[1]		150.0	Permit # 73302, approximate elevation

TABLE H-3 (continued)
Guadalupe River Permitted Outfalls

Creek Station	Study Reach	Creek Bank and Location	Size, Type	District I.D.	Invert elev.	Comments
934+00	11	W. Bank U/S of Capitol Expwy	15"[1]		151.5	Approximate elevation
939+00	11	W. Bank D/S of Branham Lane	60"CMP		148.5	
953+50	11	W. Bank D/S of Branham Lane	18"CMP		162.0	Permit # 84309
959+00	11	W. Bank at Branham Lane	48"CMP	114GAC890	156.0	
959+10	11	E. Bank at Branham Lane	36"CMP	114GAC880	156.0	
966+00	12	E. Bank U/S of Branham Lane	12" and 15"CMP	114GAC950	166.5	
968+90	12	E. Bank U/S of Branham Lane	15"CMP	114GAC970	168.5	Not found.
970+35	12	W. Bank U/S of Branham Lane	48"CMP		159.5	Permit # 71317
984+00	12	E. Bank D/S of Hwy 85	36"CMP	128GAC190	163.0	Permit # 86304
988+50	12	W. Bank D/S of Hwy 85	36"RCP		161.0	Permit # 86304
988+70	12	W. Bank D/S of Hwy 85	12'X10' RCB	128GAC200	162.0	Gated opening
997+50	12	E. Bank at Hwy 85	Two 36"CMP	128GAC300	165.0	Percolation pond outlets
997+75	12	W. Bank at Hwy 85	36"CMP	128GAC310	164.0	Perc. pond outlet
1000+50	12	E. Bank D/S of Blossom Hill Rd	12"CMP		172.0	Permit # 76357
1006+50	12	E. Bank D/S of Blossom Hill Rd	48"CMP	128GAC400	165.0	Permit # 68319
1014+60	12	E. Bank D/S of Blossom Hill Rd	36"CMP	128GAC490	170.0	
1014+95	12	W. Bank D/S of Blossom Hill Rd	48"CMP	128GAC500	175.5	
1015+05	12	E. Bank at Blossom Hill Rd	48"CMP		171.5	Permit # 68324

[1] Unknown size or type

Source: SCWD 1994

TABLE H-4
Guadalupe River Unpermitted Outfalls

Creek Station	Study Reach	Creek Bank and Location	Size, Type	District I.D.	Invert elev.	Comments
741+50	7	E. Bank D/S of Hwy 87	12"CMP		94.0	
749+00	7	E. Bank D/S of Willow St	6"IP	099GAC100	101.5	
749+40	7	E. Bank at Willow St	30"CMP	099GAC110	93.0	
750+40	7	E. Bank U/S of Willow St	12"CMP		103.5	
757+40	7	E. Bank U/S of Willow St	24"[1]		97.5	
762+50	7	E. Bank D/S of Alma Ave	24"CMP	099GAC150	98.0	
763+00	7	E. Bank D/S of Alma Ave	24"CMP	099GAC160	103.0	
765+60	7	E. Bank D/S of Alma Ave	30"CMP	099GAC170	98.5	
766+00	7	E. Bank D/S of Alma Ave	20"[1]		99.5	Not found.
768+00	7	E. Bank D/S of Alma Ave	27"[1]		99.0	Not found.
772+60	7	E. Bank at Alma Ave	30"CMP	099GAC190	96.0	
772+90	7	E. Bank at Alma Ave	30"CMP	099GAC210	96.0	
795+25	9	E. Bank at Willow Glen Way	10"SP	099GAC510	111.5	
795+50	9	E. Bank at Willow Glen Way	15"CMP	099GAC520	115.5	
797+00	9	E. Bank U/S of Willow Glen Way	Two 8"IP	099GAC560 099GAC570	121.5 (both)	
797+70	9	W. Bank U/S of Willow Glen Way	10"CMP	099GAC540	117.5	
798+90	9	E. Bank U/S of Willow Glen Way	8"IP		121.0	
814+60	9	E. Bank D/S of Malone Rd	8"IP	099GAC650	126.5	
817+00	9	E. Bank D/S of Malone Rd	8"IP	099GAC670	126.5	
818+60	9	E. Bank D/S of Malone Rd	6"IP	099GAC680	127.0	
842+00	9	W. Bank D/S of Curtner Ave	2"PVC		137.0	Not found.
842+50	10A	W. Bank at Curtner Ave	8"CMP	099GAC860	123.5	
842+60	10A	W. Bank at Curtner Ave	15"[1]		125.0	Not found.
855+00	10A	W. Bank D/S of S. Bound Almaden Expwy	12"CMP		134.5	Not found.

TABLE H-4 (continued)
Guadalupe River Unpermitted Outfalls

Creek Station	Study Reach	Creek Bank and Location	Size, Type	District I.D.	Invert elev.	Comments
859+50	10B	W. Bank U/S of S. Bound Almaden Expwy	12"CMP		141.5	
860+00	10B	E. Bank U/S of S. Bound Almaden Expwy	12"CMP		141.5	Not found.
862+00	10B	E. Bank U/S of S. Bound Almaden Expwy	18"CMP		140.0	Not found.
863+00	10B	E. Bank U/S of S. Bound Almaden Expwy	12"CMP		139.5	Not found.
869+50	10B	W. Bank D/S of N. Bound Almaden Expwy	18"CMP		138.0	
874+00	10B	W. Bank U/S of N. Bound Almaden Expwy	18"CMP		143.5	
875+50	10B	W. Bank U/S of N. Bound Almaden Expwy	18"CMP	114GAC210	144.5	
876+00	10B	W. Bank U/S of N. Bound Almaden Expwy	24"CMP	114GAC230	132.5	
878+00	10B	W. Bank U/S of N. Bound Almaden Expwy	18"CMP		133.0	
881+00	10B	E. Bank U/S of N. Bound Almaden Expwy	24"CMP	114GAC260	127.5	
901+00	10C	W. Bank D/S of Hillsdale Ave	6"IP	114GAC410	150.0	Water discharged from packing plant.
940+00	11	W. Bank D/S of Ross Creek	12"CMP	114GAC680	151.0	
940+45	11	E. Bank D/S of Ross Creek	12"RCP	114GAC690	151.5	
940+90	11	E. Bank D/S of Ross Creek	12"RCP	114GAC700	151.5	
944+90	11	E. Bank D/S of Ross Creek	18"[1]		148.5	Not found.
949+50	11	W. Bank at Ross Creek	18"CMP	114GAC800	160.0	
960+40	12	E. Bank U/S of Branham ln	12"CMP		160.0	
962+60	12	E. Bank U/S of Branham ln	8" Steel	114GAC920	169.0	
962+95	12	E. Bank U/S of Branham ln	8" Steel	114GAC940	169.0	
969+00	12	E. Bank U/S of Branham ln	Two 8"CMP	114GAC970	169.0	
970+40	12	E. Bank U/S of Branham ln	10" Steel	114GAC986	156.0	Under water.
1014+90	12	W. Bank D/S of Blossom Hill Rd	24"[1]		166.0	Under water; not found.
1015+10	12	E. Bank at Blossom Hill Rd	9"CMP	128GAC505	165.0	

[1]Unknown size or type

Source: SCWD 1994

TABLE H-5
Ross and Canoas Creeks Outfalls

Creek Station	Study Reach	Creek Bank and Location	Size, Type	District I.D.	Invert elev.	Comments
PERMITTED OUTFALLS						
ROSS CREEK						
4+55	-	S. Bank U/S of Almaden Expwy	12"[1]		164.0	
7+70	-	S. Bank U/S of Almaden Expwy	15"[1]		163.0	
10+10	-	S. Bank U/S of Almaden Expwy	18"[1]		158.5	
13+30	-	S. Bank U/S of Almaden Expwy	18"[1]		163.0	
18+10	-	N. Bank D/S of Cherry Ave	12"[1]		160.0	
18+35	-	S. Bank D/S of Cherry Ave	36"[1]		158.5	Permit # 74312
20+85	-	S. Bank D/S of Cherry Ave	24"[1]		158.5	
24+35	-	S. Bank D/S of Cherry Ave	12"[1]		160.5	
28+95	-	S. Bank @ Cherry Ave	18"[1]		162.5	
31+95	-	S. Bank U/S of Cherry Ave	24"[1]		163.0	
34+40	-	N. Bank U/S of Cherry Ave	12"[1]		165.0	
43+45	-	S. Bank D/S of Jarvis Ave	42"[1]		165.5	
43+45	-	S. Bank D/S of Jarvis Ave	18"[1]		171.0	Permit # 68336
CANOAS CREEK						
3+05	-	N. Bank U/S of N. Bound Almaden Expwy	12"[1]		134.5	
UNPERMITTED OUTFALLS						
ROSS CREEK						
26+40	-	S. Bank D/S of Cherry Ave	12"CMP		167.5	Not shown on city plans.
CANOAS CREEK						
		No Unpermitted outfalls for Canoas Creek.				

[1] Unknown size or type

Source: SCWD 1994