



Subregional Long-Term Wastewater Project

RECLAIMED WATER QUALITY

SANTA ROSA SUBREGIONAL LONG-TERM WASTEWATER PROJECT

Prepared for

City of Santa Rosa
and
U.S. Army Corps of Engineers

MAY 1996

Prepared by

Merritt Smith Consulting
Environmental Science and Communication
3675 Mt. Diablo Blvd. #120 Lafayette, CA 94549

For

HARLAND BARTHOLOMEW & ASSOCIATES, INC.

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AUTHORS

This report was prepared by James C. Roth, Ph.D., and Marcie L. Commins, Ph.D.

1.0 INTRODUCTION

This report is a compilation of numerical data summarizing analyses of reclaimed water produced by the Santa Rosa Subregional System. Data are presented in a series of tabular appendices and include results of analyses made from July 1988 through January 1995 for metals and from January 1991 through January 1995 for organic chemicals, biological components, and physical and chemical characteristics (pH, turbidity, total dissolved solids, etc.). Detectable constituents are summarized in text tables which also display water quality objectives issued by regulatory agencies. The purpose of this report is to provide a basis for evaluations of potential project impacts that are summarized in other technical reports (e.g. *Human Health Risks from Chemical and Biological Components of Reclaimed Water* Parsons ES 1996, and *Ecological Risk Assessment for Santa Rosa Subregional Long-Term Wastewater Project* Parsons ES 1996).

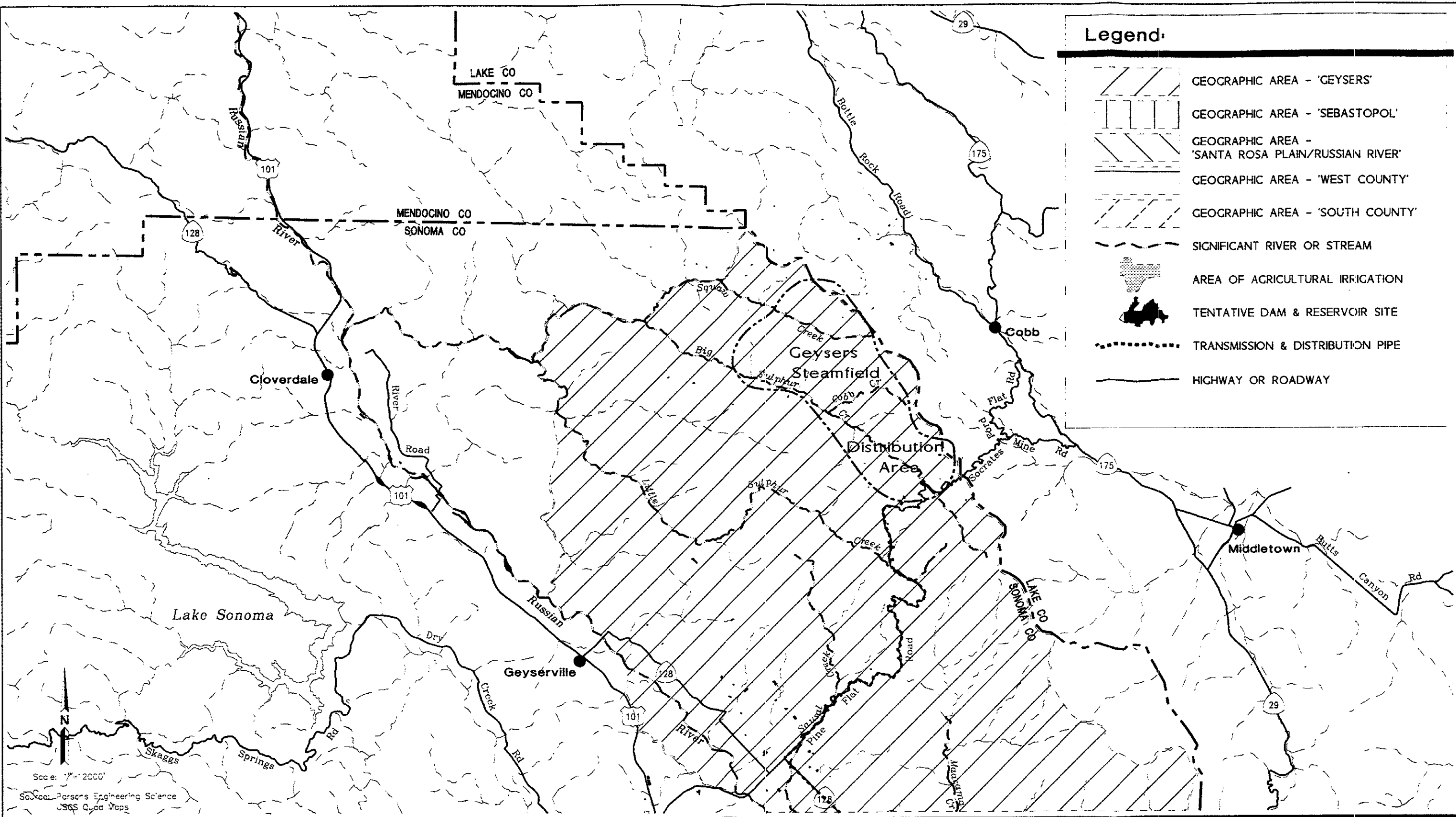
Water quality characterization of reclaimed water produced by the Santa Rosa Subregional System is needed to evaluate the alternatives being considered in the Environmental Impact Report/Statement (EIR/EIS). Figure 1 shows the location of the Laguna Treatment Plant and reclaimed water storage ponds.

The objectives of this report are as follows:

- To describe sources of reclaimed water quality data collected and analyzed from 1988 - 1995 (metals) and 1991 - 1995 (organic chemicals, biological components, and physical and chemical characteristics (pH, turbidity, total dissolved solids, etc.)), and which are representative of current treatment plant operation.
- To present a summary of reclaimed water quality data in tabular form which can be used as input to water quality impacts analyses (*Water Quality Impact Analysis* Technical Report, MSC 1996) and human health and wildlife risk assessments (*Human Health Risks from Chemical and Biological Components of Reclaimed Water* Technical Report, Parsons ES 1996; *Human Health Effects and Wildlife Effects of Environmental Estrogens* Technical Report, Parsons ES 1995, and *Ecological Risk Assessment for Santa Rosa Subregional Long-Term Wastewater Project* Technical Report, Parsons E-S 1996).

This report contains the following sections:

- Reclaimed Water Data. A summary of the reclaimed water quality data which are tabulated in the appendices to this report.
- Reclaimed Water Quality Overview. A presentation of biological constituents and chemical constituents which are found in detectable concentrations in reclaimed water.



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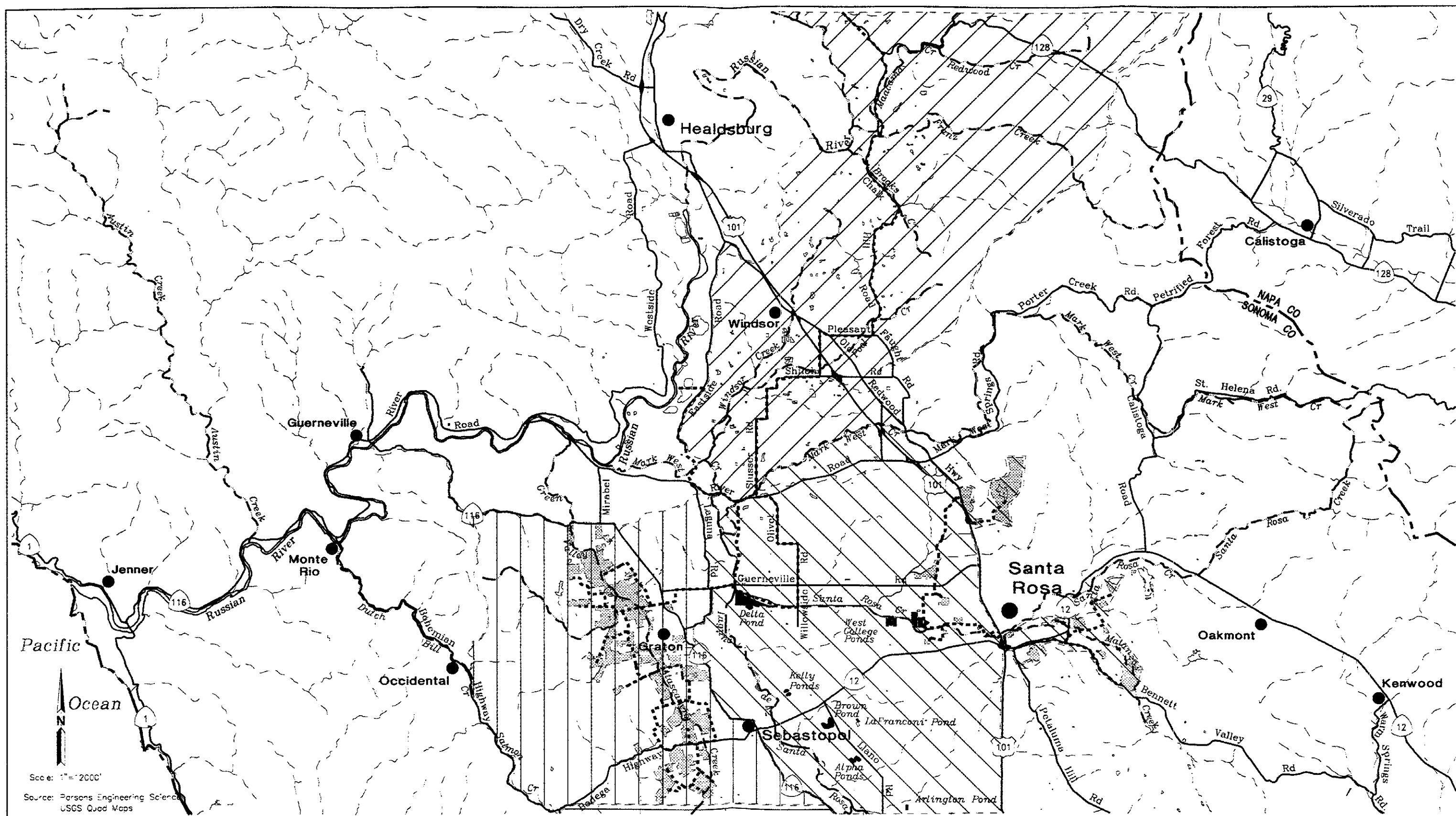


Santa Rosa

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Wastewater Project

PROJECT WATERWAYS
WITH POTENTIAL
WATER QUALITY IMPACTS

Figure 1a



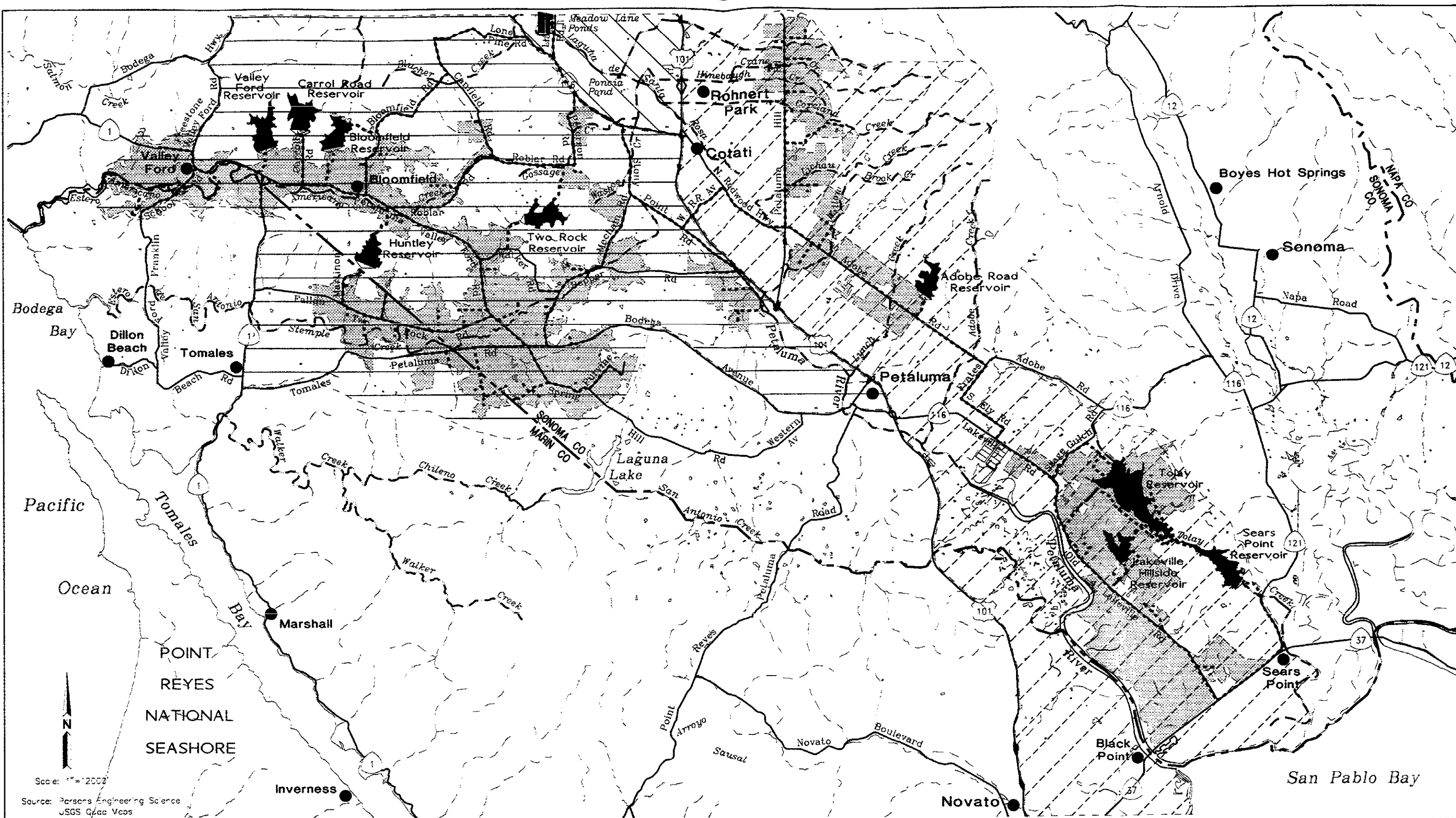
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PROJECT WATERWAYS WITH POTENTIAL
WATER QUALITY IMPACTS Figure 1b



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PROJECT WATERWAYS
WITH POTENTIAL
WATER QUALITY IMPACTS

Figure 1c

2.0 RECLAIMED WATER QUALITY DATA

Numerical reclaimed water quality data are given in a series of tabular appendices to this report, as follows:

2.1 RECLAIMED WATER METALS, CYANIDE, AND CHLORIDE

Appendix 1 contains data on concentrations of 25 metals, as well as cyanide and chloride, (sampled at the treatment plant) as reported approximately quarterly from July 1988 through January 1995. Beginning in January 1990, total cadmium, chromium, copper, lead, mercury, nickel, silver, and zinc were usually analyzed monthly. Dissolved metals, other total metals, and chloride were usually analyzed quarterly.

2.2 RECLAIMED WATER ORGANICS

Appendix 2 contains data on organic chemical species (sampled at the treatment plant) as reported approximately quarterly from January 1991 through January 1995. Data for 44 purgeable species (EPA Method 624/8260), 27 organochlorine pesticides and PCB's (EPA Method 608), and 56 base neutral extractable species (EPA Method 625) are reported. Data on eight chlorinated herbicides (EPA Method 515.1) and 12 organonitrogen /organophosphorus pesticides (EPA Method 507) are available for a single date only; and data on 26 congeners of dioxin and furan are available for three dates in 1994 and 1995.

2.3 RECLAIMED WATER ROUTINE CONSTITUENTS

A summary of routinely measured reclaimed water constituents (sampled at the treatment plant) is given in Appendix 3, as monthly minimum, maximum, and average values from January 1991 through January 1995. The constituents are ammonia, nitrite, nitrate, phosphate, alkalinity, total dissolved solids (TDS), biological oxygen demand (BOD), total suspended solids (TSS), pH, coliforms, and turbidity. Less frequently analyzed data on total organic carbon (TOC) (monthly from May 1994 through January 1995); virus counts (seven dates); total Kjeldahl nitrogen (TKN) (two dates); and color, fluoride, sulfate and surfactants (1 date each) are included. Also included as Appendix 4 are Delta Pond data for ammonia, and organic nitrogen which are used in the *Water Quality Impact Analysis* Technical Report (MSC 1996).

2.4 SPECIAL RECLAIMED WATER STUDY

In order to provide additional data on reclaimed water quality, a special reclaimed water study was conducted in late 1994. The results are given in Appendix 5, and include analyses for seven inorganic substances, 170 organic species, radionuclides, two metals (beryllium and thallium), and eight pathogens, all conducted on composite treatment plant

reclaimed water samples collected on four dates. Also included are pathogens from Delta Pond which were analyzed on one date. The study also included (on two dates) a tentatively identified compound (TIC) search for 76 organic species as part of a special alkylphenol study.

2.5 PHTHALATE AND CYANIDE SPECIAL STUDY

A special collection and analysis for phthalates and cyanide in fresh reclaimed water (sampled at the treatment plant) and storage ponds was conducted. Appendix 6 contains data for six phthalate species, and for cyanide from composite reclaimed water samples collected on four dates in December 1995 and January 1996. Phthalates were included in the special study because they are a common laboratory contaminant. To control for this potential problem, trip/field blanks were included for all the reclaimed water collections and one of the Delta Pond samples. Diethyl phthalate was the only phthalate found in detectable concentrations. It was detectable in two of the four treatment plant reclaimed water samples and two of the four Delta Pond samples. It was also detectable in the Delta Pond blank, but none of the treatment plant reclaimed water blanks.

Cyanide was included in the special study because existing data collected by the City of Santa Rosa do not provide an estimate of potential effects of storage and complex formation on the concentration of total cyanide. In very pure water, the predominant form of cyanide is hydrogen cyanide (HCN) which is somewhat volatile and may be reduced through storage of reclaimed water. Additionally, in the presence of metals such as those found in reclaimed water, some of the cyanide forms metal complexes which are very stable and much less toxic than HCN. The City of Santa Rosa has measured cyanide in treatment plant effluent only, not in storage ponds. Therefore, the reclaimed water cyanide measurements may not be representative of the actual toxic fraction of cyanide present in reclaimed water discharged from storage ponds. To evaluate the effect of storage on cyanide, three types of cyanide analysis were conducted in the special study: total cyanide, amenable to chlorination cyanide, and weak acid dissociable cyanide. The amenable to chlorination and weak acid dissociable cyanide provide an estimate of the concentration of the toxic form of cyanide. Samples were collected from plant-collected reclaimed water and stored reclaimed water (Delta Pond).

The measurement of total cyanide, which is routinely measured in reclaimed water samples, is subject to interference from nitrate and nitrite. This interference causes artificially high cyanide results. The City of Santa Rosa routine cyanide results and the special study results may be affected by the interference. The Santa Rosa routine cyanide samples are being evaluated further to ascertain which data are subject to interference. The results of this evaluation will be presented in a supplementary report. For the special cyanide study, the analytical laboratory was requested to follow Standard Methods analytical procedures, which include a step to remove nitrate interference, but instead used the EPA methodology without this step. Therefore, the results of the special study total cyanide and amenable to chlorination cyanide are suspect and not included in this report. The weak acid dissociable cyanide method is not subject to nitrate interference. The data

for this analysis are shown in Appendix 6. Weak dissociable cyanide ranged from 15 to 21 mg/L in reclaimed water collected at the treatment plant, but was always below detection (detection limit = 5 mg/L) in Delta Pond samples. Another cyanide special study is planned in which the appropriate analytical methods will be used. The results of this special study will be presented in the report supplement.

3.0 RECLAIMED WATER QUALITY OVERVIEW

Table 1 provides a summary of the reclaimed water chemical constituents which have been detected in reclaimed water. Many other constituents were undetectable, and the data on both detectable and undetectable constituents are contained in the appendix tables. The table contains a list of chemical constituents of reclaimed water, along with information on their concentration, reporting (detection) limits, and the number of times that each has been detected. Mean concentrations given in these tables are calculated by assuming a value of half the detection limit for values below detection. For many of these constituents, numeric water quality objectives and guidelines (points of significance) have been promulgated by environmental regulatory agencies, including the U. S. EPA and Regional Water Quality Control Boards (RWQCB). These points of significance are also listed in Table 1. In cases where different regulatory agencies have promulgated different values for a given constituent, the lowest (i.e., most stringent) value is shown here. Notes explaining points of significance for each constituent are given in a separate technical report, *Development of Evaluation Criteria for Potential Water Quality Impacts* (MSC 1996).

Several estimates of nitrate are available as follows:

- The overall average nitrate concentration from the Laguna Treatment Plant reclaimed water (16.3 mg-N/L)
- The average nitrate concentration in the treatment plant when the Laguna plant is nitrifying (18.1 mg-N/L)
- The expected nitrate concentration in the Laguna Treatment Plant effluent after interim period plant upgrades are completed (14 mg-N/L) (estimated in a September 1995 memo by CH2M Hill and reported in the *Treatment Wetlands Evaluation* technical report (MSC 1996))
- The expected nitrate concentration in storage ponds after 14 mg-N/L is added to the pond and nitrification occurs in the pond (12 mg-N/L)

Table 2 provides a summary of the reclaimed water biological data (BOD, bacteria and viruses) contained in the appendix tables. The human health implications of the data presented in this document are discussed in two separate technical reports: *Human Health Risks from Chemical and Biological Components of Reclaimed Water*, Parsons Engineering (Parsons ES 1995) and *Human Health Effects and Wildlife Effects of Environmental Estrogens* (Parsons ES 1995).

Table 1.

Chemical Constituents in the Laguna Treatment Plant Reclaimed Water (1988-1995)

Chemical	Concentration Range (mg/L)	Mean Concentration (mg/L)	Reporting Limit(s) (mg/L)	Number of Detects	Number of Samples	Point of Significance (mg/L)
Inorganics						
total aluminum	N.D. - 0.15	0.032	0.01 - 0.10	20	27	
dissolved aluminum	N.D. - 0.04	0.011	0.01	2	8	0.087 ^A
total ammonia	N.D. - 40.3	4.08, 2.0	0.1 - 0.5	49 ^(1,2)	49 ^(1,2)	0.3-2.0 ⁽³⁾
total arsenic	N.D. - 0.0040	0.0024	0.001 - 0.005	25	30	
dissolved arsenic	0.001 - 0.0030	0.0025	N/A	8	8	0.19 ^A
asbestos, MFL ⁽⁴⁾	N.D. - 0.56	0.25	0.05 - 0.28	2	4	
total barium	N.D. - 0.11	0.023	0.02 - 0.05	4	27	
boron	N.D. - 0.60	0.48	0.10	17	18	
total cadmium	N.D. - 0.007	0.0007	0.0002 - 0.01	6	89	
calcium	22 - 63	31	N/A	19	19	
total chromium	N.D. - 0.014	0.0023	0.001 - 0.02	49	90	
total copper	N.D. - 0.04	0.012	0.005 - 0.10	88	90	
dissolved copper	0.006 - 0.013	0.010	N/A	8	8	0.013 ^{A5}
cyanide	N.D. - 0.03	0.01	0.005 - 0.01	6	11	0.0052 ^A
fluoride	0.18 - 0.31	0.22	N/A	4	4	
total lead	N.D. - 0.020 ⁽⁶⁾	0.0045	0.001 - 0.04	19	90	
magnesium	15 - 23	19	N/A	18	18	
total mercury	N.D. - 0.0002	0.00037	0.0002 - 0.001	1	91	0.0013 ^B
total nickel	N.D. - 0.025 ⁽⁶⁾	0.0042	0.002 - 0.02	56	90	
dissolved nickel	N.D. - 0.0050	0.0034	0.005	6	8	0.182 ^{A5}
nitrate	0.3 - 50.5	16.3, 18.1, (as N)	N/A	49 ⁽¹⁾	49 ⁽¹⁾	
nitrite	N.D. - 7.3	0.3 (as N)	0.01	45 ⁽¹⁾	48 ⁽¹⁾	
phosphate	0.1 - 8.4	4.3 (as P)	N/A	49 ⁽¹⁾	49 ⁽¹⁾	
total potassium	6.6 - 24	11	N/A	28	28	
dissolved potassium	5.6 - 12	10	N/A	6	8	
total silver	N.D. - 0.010	0.0012	0.0001 - 0.01	40	88	
dissolved silver	N.D. - .005	.00072	.0001 - .0002	2	8	.0019 ^{A5}
total sodium	58 - 150	80	N/A	28	28	

Table 1.

Chemical Constituents in the Laguna Treatment Plant Reclaimed Water (1988-1995)

Chemical	Concentration Range (mg/L)	Mean Concentration (mg/L)	Reporting Limit(s) (mg/L)	Number of Detects	Number of Samples	Point of Significance (mg/L)
total zinc	N.D. - 0.28	0.03	0.01 - 0.10	82	90	
dissolved zinc	0.01 - 0.058	0.032	N/A	8	8	0.121 ^{A5}
Volatile Organics						
acetone	N.D. - 0.0060	0.0042	0.002 - 0.01	2	14	
carbon disulfide	N.D. - 0.0370	0.0039	0.0005 - 0.005	3	14	
chlorobenzene	N.D. - 0.0001	0.00006	0.0001	1	19	0.050 ^A
1,4-dichlorobenzene	N.D. - 0.00090	0.00064	0.0005	10	13	0.763 ^A
ethylbenzene	N.D. - 0.0010	0.00024	0.0001 - 0.0005	1	19	32 ^A
methylene chloride	N.D. - 0.0060	0.00082	0.0001 - 0.003	5	19	
tetrachloroethylene	N.D. - 0.0006	0.00023	0.0001 - 0.0005	2	19	0.84 ^A
toluene	N.D. - 0.0004	0.00023	0.0001 - 0.0005	2	19	5 ^C
1,1,1-trichloroethane	N.D. - 0.0002	0.00021	0.0001 - 0.0005	1	19	31.2 ^C
xylene	N.D. - 0.0002	0.00022	0.0001 - 0.0005	1	18	
Halomethanes						
bromomethane	N.D. - 0.0014	0.00026	0.0001 - 0.0005	1	19	
chloromethane	N.D. - 0.0050	0.00046	0.0001 - 0.001	1	19	
bromodichloromethane	N.D. - 0.0110	0.0022	0.0005	22	23	
chloroform	0.0024 - 0.0440	0.0099	0.0005	23	23	1.24 ^A
dibromochloromethane	N.D. - 0.0021	0.00041	0.0001 - 0.0005	4	22	
total trihalomethanes ⁽⁷⁾	0.0036 - 0.057	0.013	N/A	23	23	
total halomethanes ⁽⁷⁾		0.013				11 ^A
Phthalates⁽⁸⁾						
di-n-butyl phthalate	N.D. - 0.0019	0.0012	0.001 - 0.005	2	23	
bis (2-ethylhexyl) phthalate	N.D. - 0.0060	0.0025	0.0006 - 0.005	5	23	
diethyl phthalate	N.D. - 0.021	0.0019	0.0005 - 0.002	4	23	
total phthalates		0.00558				0.003 ^A
Pesticides						
aldicarb sulfone	N.D. - 0.0018	0.0011	0.0008	2	4	
aldicarb sulfoxide	N.D. - 0.0019	0.00081	0.0005	2	4	
aldrin	N.D. - 0.00003	0.000009	0.00001 - 0.00005	3	19	0.003 ^A

Table 1.

Chemical Constituents in the Laguna Treatment Plant Reclaimed Water (1988-1995)

Chemical	Concentration Range (mg/L)	Mean Concentration (mg/L)	Reporting Limit(s) (mg/L)	Number of Detects	Number of Samples	Point of Significance (mg/L)
DCPA (Dacthal)	N.D. - 0.0003	0.00021	0.0002	2	4	
Endosulfan II	N.D. - 0.00001	0.0000059	0.00001-0.00002	1	19	0.000056 ^A
α-BHC	N.D. - 0.00003	0.000009	0.00001 - 0.00005	2	19	
γ-BHC (Lindane)	N.D. - 0.00009	0.00002	0.00001 - 0.00002	8	19	0.00008 ^{A,D}
heptachlor	N.D. - 0.00003	0.000008	0.00001 - 0.00005	1	19	0.0000038 ^{A,D}
Radioactivity						
Gross alpha, GPV ⁹⁾	1.3 - 5.5 pCi/L	2.8 pCi/L	N/A	4	4	
Gross beta, GPV	11.9 - 12.7 pCi/L	12.3 pCi/L	N/A	4	4	

N/A - not available

N.D. - not detected

Sources of points of significance:

A - US EPA Freshwater Continuous

B - EPA Final Chronic Values used because EPA criteria are based on the FDA action level for human consumption of fish. The EPA is uncertain whether the Final Chronic Values are completely protective of all fish species

C - US EPA Saltwater Continuous

D - SF Bay RWQCB Freshwater 4-day average

¹ Numbers shown are average concentration and average concentration when the plant is nitrifying, respectively.

² Numbers shown are the number of monthly averages; these constituents are routinely measured several times per month.

³ Temperature- and pH-dependent. Values shown are for pH range of 6.5 - 8.5 and a temperature range of 5 - 20°C.

⁴ Asbestos values are reported as millions of fibers per liter (MFL).

⁵ Criteria are hardness-related. Based on hardness of 119 mg/L (Santa Rosa Creek Average).

⁶ The maximum concentration for these substances was half the detection limit of a non-detectable value. This differs from *Human Health Risks from Chemical and Biological Components of Reclaimed Water* Technical Report (Parsons ES 1996) which gives the maximum detectable value as the maximum.

⁷ Trihalomethanes include chloroform, bromoform, bromodichloromethane, and dibromochloromethane. Bromoform was not detected at or above the reporting limit for any sample. One half the reporting limit for bromoform was used to calculate the maximum and mean concentrations of trihalomethanes. Total halomethanes includes bromoform, bromodichloromethane, dibromochloromethane bromomethane and chloromethane.

⁸ Phthalate numbers given here differ from those given in the technical memorandum "Human Health Risks from Chemical and Biological Components of Reclaimed Water, Parsons Engineering Science, Inc. March 1996" because these numbers include additional data (see Appendix 5) collected while that TM was in preparation. See text section 2.5.

⁹ Radioactivity values are reported as greatest probable value (GPV).

Table 2.

Biological Constituents of Reclaimed Water

Biological Constituent	Units	Concentration Range	Mean Concentration	Reporting Limits	Number of Detects	Number of Samples	Point of Significance
BOD	mg/L	1.5 - 19	3.4		49 ¹	49 ¹	none
Total Coliform	Mpn/100 ml	ND - 170	2.2	2.2	49 ¹	49 ¹	none
Virus	PFU/100 L	ND	N/A	1/~150 L	0	7	none
<i>Giardia lamblia</i> cysts	#cysts/100 L	ND - 13.8	4.7	1/~200 L	2	4	none
<i>Cryptosporidium</i> oocysts	#oocysts/100 L	ND	N/A	1/~200 L	0	4	none
<i>Legionellasp.</i>	Mpn/100 ml	ND	N/A	7840	0	4	none
<i>Salmonellasp.</i>	Mpn/100 ml	ND	N/A	2.2	0	4	none
Shigella	Mpn/100 ml	ND	N/A	2.2	0	4	none
Heterotrophic Plate Count	CFU/ml	ND - 2	1.25	2	1	4	none

N/A - not available

N.D. - not detected

Sources of significance points:

A - US EPA Freshwater Continuous

B - US EPA Saltwater Continuous

C - SF Bay RWQCB Freshwater 4-day average

D - SF Bay RWQCB Saltwater 4-day average

E - No. Coast RWQCB

¹ Numbers shown are the number of monthly averages; these constituents are routinely measured several times per month.

4.0 REFERENCES

- EPA 1995. Stay of Federal Water Quality Criteria for Metals; Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants; States' Compliance--Revision of Metals Criteria; Final Rules. 40 CFR Part 131.
- Merritt Smith Consulting 1996. *Development of Evaluation Criteria for Potential Water Quality Impacts*, Technical Report. Santa Rosa Subregional Long-Term Wastewater Project.
- Merritt Smith Consulting 1996. *Treatment Wetlands Evaluation*, Technical Report. Santa Rosa Subregional Long-Term Wastewater Project.
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- Parsons Engineering Science, Inc. 1996. *Human Health Risks from Chemical and Biological Components of Reclaimed Water* Technical Report. Santa Rosa Subregional Long-Term Wastewater Project.

5.0 APPENDICES

Appendix 1. Santa Rosa Reclaimed Water Metals, cyanide, and chloride, mg/l. *after a constituent indicates that it was below the detection limit. The number shown is the detection limit.

Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Boron		Cadmium		Calcium		Chromium	
	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	hexaval
1-Jul-88					0.005 *						0.5		0.001 *		28		0.005	0.01 *
1-Oct-88			1 *		0.005 *				0.01 *		0.6		0.1 *		24		0.10 *	0.01 *
1-Jan-89					0.005 *						0.4		0.001 *		24		0.001 *	0.01
1-Apr-89	0.06		0.005 *		0.002		0.08		0.005 *				0.001 *		63		0.005 *	
1-Jul-89	0.04 *		0.002 *		0.002		0.02		0.003 *				0.001 *				0.003 *	
1-Oct-89	0.1 *		0.004 *		0.001		0.11		0.003 *				0.001 *				0.003 *	
1-Jan-90	0.02		0.004 *		0.004		0.03 *		0.003 *				0.001 *				0.003 *	
8-Jan-90	0.1		0.004 *		0.004		0.03 *		0.003 *				0.001 *				0.003 *	
15-Jan-90													0.001 *				0.002	
15-Feb-90													0.001 *				0.002	
15-Mar-90													0.001 *				0.002	
1-Apr-90	0.01 *		0.004 *		0.003		0.03 *		0.003 *				0.001 *				0.003 *	
9-Apr-90	0.01 *		0.004 *		0.004		0.03 *		0.003 *				0.001 *				0.003 *	
15-Apr-90													0.01 *				0.002	
15-May-90													0.004				0.002 *	
15-Jun-90													0.004				0.001	
1-Jul-90	0.04		0.005 *		0.002		0.05 *		0.003 *				0.001 *				0.005 *	
9-Jul-90	0.02		0.005 *		0.003		0.05		0.003 *				0.001 *				0.005 *	
15-Jul-90													0.001 *				0.005 *	
15-Aug-90													0.001 *				0.004	
15-Sep-90													0.001 *				0.007	
1-Oct-90	0.01 *		0.005 *		0.003		0.05 *		0.005 *				0.001 *				0.005 *	
2-Oct-90	0.03		0.005 *		0.003		0.05 *		0.005 *				0.001 *				0.005 *	
15-Oct-90													0.001 *				0.002	
15-Nov-90													0.001 *				0.005	
15-Dec-90													0.001 *				0.002	
1-Jan-91	0.03		0.004 *		0.004		0.03 *		0.003 *				0.001 *				0.005 *	
1-Jan-91	0.02		0.004 *		0.003		0.03 *		0.003 *				0.001 *				0.005 *	
7-Jan-91													0.001 *				0.001 *	
12-Feb-91													0.001 *				0.001 *	
7-Mar-91													0.001 *				0.002 *	
8-Apr-91	0.02	0.01 *	0.004 *		0.003	0.003	0.05 *	0.05 *	0.005 *	0.005 *	0.5		0.001 *	0.001 *	35	0.003 *	0.003 *	
8-Apr-91													0.001 *				0.002	
24-May-91													0.001 *				0.002	
3-Jun-91													0.001 *				0.003	
8-Jul-91	0.02	0.02	0.004 *		0.002	0.003	0.015 *	0.015 *	0.002 *	0.002 *	0.5		0.001 *	0.001 *	31	0.002 *	0.002 *	
8-Jul-91													0.001 *				0.004	
5-Aug-91													0.001 *				0.002	
3-Sep-91													0.001 *				0.004	
8-Oct-91													0.001 *				0.002	
8-Oct-91	0.03		0.004 *		0.003		0.04 *		0.003 *		0.6		0.001 *		29		0.001	
4-Nov-91													0.001 *				0.002	
2-Dec-91													0.001 *				0.002	
7-Jan-92													5E-04 *	5E-04 *	38	0.001 *	0.001 *	
3-Feb-92													0.001 *				0.02 *	
2-Mar-92	0.02	0.01 *	0.004 *		0.003	0.003	0.03 *	0.05 *	0.006 *	0.005 *	0.5		0.001 *				0.002	
6-Apr-92													0.001				0.004	

Appendix 1. Santa Rosa Reclaimed Water Metals, cyanide, and chloride, mg/l. *after a constituent indicates that it was below the detection limit. The number shown is the detection limit.

Date	Aluminum		Antimony		Arsenic		Barium		Beryllium		Boron	Cadmium		Calcium	Chromium		
	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	tot	diss	tot	tot	diss	hexaval
7-Apr-92	0.15	0.01 *	0.004 *	0.004 *	6E-04	0.003	0.03 *	0.05 *	0.005 *	0.005 *	0.5	5E-04 *	0.001 *	33	0.001 *	0.001 *	
6-May-92												0.001 *			0.006		
1-Jun-92												0.001 *			0.003		
13-Jul-92												0.005 *			0.002 *		
15-Jul-92	0.01 *	0.01 *	0.001 *	0.001 *	0.002	0.002	0.03 *	0.03 *	0.003 *	0.003 *	0.6	2E-04	2E-04 *	29	0.001	0.001 *	
3-Aug-92												0.005 *			0.002 *		
1-Sep-92												0.005 *			0.002 *		
12-Oct-92	0.01 *	0.01 *	0.001 *	0.001 *	0.002	0.001	0.03 *	0.03 *	0.005 *	0.005 *	0.6	2E-04	2E-04 *	27	0.002	0.001 *	
12-Oct-92												0.001 *			0.002 *		
3-Nov-92												0.001 *			0.004 *		
1-Dec-92												0.002 *			0.004 *		
11-Jan-93	0.03		0.001 *		0.003		0.03 *		0.003 *		0.4	2E-04 *		28	0.001 *		
11-Jan-93												0.001 *			0.004 *		
1-Feb-93												0.001 *			0.004 *		
2-Mar-93												0.001 *			0.004 *		
12-Apr-93	0.02		0.001 *		0.003 *		0.03 *		0.003 *		0.4	2E-04 *		31	0.001		
12-Apr-93												0.007			0.014		
3-May-93												0.001 *			0.002 *		
1-Jun-93												0.005 *			0.002 *		
12-Jul-93												0.001 *			0.002 *		
13-Jul-93	0.04		0.001 *		0.001		0.03 *		5E-04 *		0.5	2E-04 *		32	0.001		
4-Aug-93												0.001 *			0.002 *		
1-Sep-93												0.001 *			0.002 *		
4-Oct-93																	
11-Oct-93	0.03		0.005 *		0.002		0.03 *		0.005 *		0.55	2E-04 *		24	0.001 *	0.001 *	
11-Oct-93												0.006 *			0.005		
4-Nov-93												0.001 *			0.001		
2-Dec-93												0.001 *			0.001		
10-Jan-94	0.03		0.005 *		0.002		0.03 *		0.005 *		0.42	2E-04 *		32	0.002		
10-Jan-94												0.001 *			0.002		
1-Feb-94												0.001 *			0.002		
1-Mar-94												0.001 *			0.002		
11-Apr-94	0.02		0.005 *		0.001 *		0.03 *		0.005 *		0.46	2E-04 *		34	0.002		
11-Apr-94												0.001 *			0.001		
3-May-94												0.001 *			0.005		
2-Jun-94												0.001 *			0.001 *		
11-Jul-94												0.001 *			0.006		
2-Aug-94												0.001 *			0.002		
1-Sep-94												0.001 *			0.002		
4-Oct-94												3E-04 *			0.002		
14-Nov-94												3E-04 *			0.001		
14-Nov-94	0.06	0.04	0.005 *	0.005 *	0.002	0.002	0.03 *	0.03 *	0.005 *	0.005 *	0.5	2E-04 *	2E-04 *	30	0.001 *	0.001 *	0.005 *
16-Nov-94																	
4-Dec-94												3E-04 *			0.001		
5-Dec-94																	
22-Jan-95												2E-04 *			0.001		
30-Jan-95		0.01 *		0.005 *		0.003		0.05 *		0.005 *	0.1 *		0.001 *	21.9		0.005 *	
31-Jan-95																	

Appendix 1. Santa Rosa Reclaimed Water Metals, cyanide, and chloride, mg/l. *after a constituent indicates that it was below the detection limit. The number shown is the detection limit.

Date	Cobalt		Copper		Iron	Lead		Magnesium	Manganese	Mercury		Molybdenum		Nickel		Potassium	
	tot	diss	tot	diss	tot	tot	diss	tot	tot	tot	diss	tot	diss	tot	diss	tot	diss
1-Jul-88			0.009			0.002		16		0.001 *				0.01 *		13	
1-Oct-88			0.1 *			0.1 *		15		0.001 *				0.1 *		13	
1-Jan-89			0.04			0.002		16		0.001 *				0.01		11	
1-Apr-89	0.02 *		0.012			0.005 *				2E-04 *		0.04 *		0.005 *		17	
1-Jul-89	0.02 *		0.009			0.005 *				2E-04 *		0.04 *		0.005 *			
1-Oct-89	0.04 *		0.011			0.005 *				2E-04 *		0.04 *		0.005 *			
1-Jan-90	0.02 *		0.011			0.005 *				2E-04 *		0.04 *		0.005 *		8.3	
8-Jan-90	0.02 *		0.011			0.005 *				2E-04 *		0.04 *		0.005 *		6.6	
15-Jan-90			0.012			0.004				0.001 *				0.002			
15-Feb-90			0.016			0.001 *				0.001 *				0.005			
15-Mar-90			0.013			0.001				0.001 *				0.004			
1-Apr-90	0.02 *		0.017			0.005 *				2E-04 *		0.04 *		0.005 *		9.8	
9-Apr-90	0.02 *		0.013			0.005 *				2E-04 *		0.04 *		0.005 *		9.2	
15-Apr-90			0.014			0.001 *				0.001 *				0.002			
15-May-90			0.008			0.001 *				0.001 *				0.004 *			
15-Jun-90			0.004			0.002				0.001 *				0.004 *			
1-Jul-90	0.02 *		0.006			0.005 *				2E-04 *		0.04 *		0.005 *		10	
9-Jul-90	0.02 *		0.005 *			0.005 *				2E-04 *		0.04 *		0.005 *		9.8	
15-Jul-90			0.005			0.001 *				0.001 *				0.003			
15-Aug-90			0.006			0.006				0.001 *				0.002			
15-Sep-90			0.014			0.004				0.001 *				0.002 *			
1-Oct-90	0.02 *		0.005			0.005 *				2E-04 *		0.04 *		0.005 *		11	
2-Oct-90	0.02 *		0.009			0.005 *				2E-04 *		0.04 *		0.009		11	
15-Oct-90			0.015			0.005 *				0.001 *				0.003			
15-Nov-90			0.017			0.012				0.001 *				0.001			
15-Dec-90			0.018			0.001				0.001 *				0.005			
1-Jan-91	0.02 *		0.04			0.005 *				2E-04 *		0.04 *		0.005 *		10	
1-Jan-91	0.02 *		0.019			0.005 *				2E-04 *		0.04 *		0.008		11	
7-Jan-91			0.02			0.004				0.001 *				0.008			
12-Feb-91			0.023			0.002				0.001 *				0.005			
7-Mar-91			0.011			0.001				0.001 *				0.006			
8-Apr-91	0.02 *	0.02 *	0.01	0.011		0.005 *	0.005 *	23		2E-04	2E-04 *	0.04 *	0.04 *	0.005 *	0.005 *	8.4	9
8-Apr-91			0.009			0.001				0.001 *				0.006			
24-May-91			0.014			0.001 *				0.001 *				0.005			
3-Jun-91			0.02			0.001 *				0.001 *				0.004			
8-Jul-91	0.01 *	0.01 *	0.008	0.006		0.002 *	0.002 *	19		2E-04 *	2E-04 *	0.02 *	0.02 *	0.005	0.002	11	11
8-Jul-91			0.01			0.001 *				0.001 *				0.004			
5-Aug-91			0.012			0.001 *				0.001 *				0.005			
3-Sep-91			0.008			0.001 *				0.001 *				0.006			
8-Oct-91			0.01			0.001				0.001 *				0.006			
8-Oct-91	0.02 *		0.008			0.001 *		19		2E-04 *		0.04 *		0.006		13	
4-Nov-91			0.009			0.001				0.001 *				0.003			
2-Dec-91			0.015			0.001 *				0.001 *				0.004			
7-Jan-92	0.02 *	0.02 *	0.007	0.007		0.001 *	0.001 *	19		2E-04 *	2E-04 *	0.04 *	0.04 *	0.004	0.003	9.3	9.5
3-Feb-92			0.02			0.001 *				0.001 *				0.02 *			
2-Mar-92			0.008			0.002				0.001 *				0.003			
6-Apr-92			0.015			0.02 *				0.001 *				0.004			

Appendix 1. Santa Rosa Reclaimed Water Metals, cyanide, and chloride, mg/l. *after a constituent indicates that it was below the detection limit. The number shown is the detection limit.

Date	Cobalt		Copper		Iron		Lead		Magnesium		Manganese		Mercury		Molybdenum		Nickel		Potassium	
	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss
7-Apr-92	0.02 *	0.02 *	0.009	0.013			0.001 *	0.005 *	20				2E-04 *	2E-04 *	0.04 *	0.04 *	0.004	0.003	11	11
8-May-92			0.012				0.02 *						0.001 *				0.007			
1-Jun-92			0.018				0.02 *						0.001 *				0.006			
13-Jul-92			0.013				0.02 *						0.001 *				0.003			
15-Jul-92	0.02 *	0.02 *	0.011	0.01			0.002	0.002 *	17				2E-04 *	2E-04 *	0.04 *	0.04 *	0.003	0.005	12	11
3-Aug-92			0.015				0.02 *						0.001 *				0.002			
1-Sep-92			0.011				0.02 *						0.001 *				0.003			
12-Oct-92	0.02 *	0.02 *	0.01	0.01			0.002 *	0.002 *	16				2E-04 *	2E-04 *	0.04 *	0.04 *	0.004	0.005	24	12
12-Oct-92			0.013				0.04 *						0.001 *				0.006			
3-Nov-92			0.014				0.04 *						0.001 *				0.005			
1-Dec-92			0.014				0.04 *						0.001 *				0.005			
11-Jan-93	0.02 *		0.009				0.002 *		20				2E-04 *		0.04 *		0.003		8.4	
11-Jan-93			0.013				0.04 *						0.001 *				0.004			
1-Feb-93			0.009				0.04 *						0.001 *				0.004 *			
2-Mar-93			0.012				0.04 *						0.001 *				0.008			
12-Apr-93	0.02 *		0.007				0.002 *		20				2E-04 *		0.04 *		0.004		9.8	
12-Apr-93			0.003				0.02 *						0.001 *				0.003			
3-May-93			0.014				0.02 *						0.001 *				0.004			
1-Jun-93			0.008				0.02 *						0.001 *				0.003			
12-Jul-93			0.007				0.02 *						0.001 *				0.003			
13-Jul-93	0.02 *		0.007				0.002 *		18				2E-04 *		0.04 *		0.003		12	
4-Aug-93			0.011				0.02 *						0.001 *				0.003			
1-Sep-93			0.012				0.02 *						0.001 *				0.002 *			
4-Oct-93					0.1 *						0.03 *									
11-Oct-93	0.02 *		0.012				0.002		16				2E-04 *		0.04 *		0.004		11	
11-Oct-93			0.014				0.04 *						0.001 *				0.01 *			
4-Nov-93			0.018				0.005 *						0.001 *				0.01 *			
2-Dec-93			0.012				0.005 *						0.001 *				0.01 *			
10-Jan-94	0.02 *		0.01				0.002 *		21				2E-04 *		0.04 *		0.004		13	
10-Jan-94			0.011				0.005 *						0.001 *				0.01 *			
1-Feb-94			0.014				0.005 *						0.001 *				0.05 *			
1-Mar-94			0.015				0.005 *						0.001 *				0.01 *			
11-Apr-94	0.02 *		0.009				0.002		22				2E-04 *		0.04 *		0.003		12	
11-Apr-94			0.014				0.005 *						0.001 *				0.01 *			
3-May-94			0.016				0.005 *						0.001 *				0.005 *			
2-Jun-94			0.01				0.005 *						0.001 *				0.005 *			
11-Jul-94			0.008				0.005 *						0.001 *				0.005 *			
2-Aug-94			0.013				0.005 *						0.001 *				0.005 *			
1-Sep-94			0.006				0.005 *						0.001 *				0.005 *			
4-Oct-94			0.016				0.005 *						0.001 *				0.005 *			
14-Nov-94	0.02 *	0.02 *	0.012				0.005 *						2E-04 *				0.005 *			
14-Nov-94			0.013	0.012			0.005 *	0.005 *	20				2E-04 *	2E-04 *	0.04 *	0.04 *	0.004	0.004	12	12
16-Nov-94																				
4-Dec-94			0.009				0.005 *						2E-04 *				0.006			
5-Dec-94																				
22-Jan-95			0.009				0.002 *						2E-04 *	2E-04 *			0.005			
30-Jan-95		0.02 *		0.008				0.005 *	18.4				2E-04 *	2E-04 *	0.04 *	0.04 *	0.005	0.005 *		5.78
31-Jan-95																				

Appendix 1. Santa Rosa Reclaimed Water Metals, cyanide, and chloride, mg/l. *after a constituent indicates that it was below the detection limit. The number shown is the detection limit.

Date	Selenium		Silver		Sodium		Thallium		Vanadium		Zinc		Cyanide	Chloride
	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	tot
1-Jul-88					82						0.1 *			
1-Oct-88	0.001 *		0.05 *		92		0.5 *				0.1 *			
1-Jan-89					64						0.07			140
1-Apr-89	0.005 *		0.002 *		130		0.03 *		0.02 *		0.1			110
1-Jul-89	0.002 *		0.002 *				0.03 *		0.02 *		0.06			
1-Oct-89	0.001 *		0.002 *				0.03 *		0.04 *		0.02 *			96
1-Jan-90	0.001 *		0.002 *		63		0.03 *		0.02 *		0.02 *			
8-Jan-90	0.005 *		0.002 *		58		0.03 *		0.02 *		0.02 *			70
15-Jan-90			0.001								0.02			
15-Feb-90			0.002								0.022			
15-Mar-90			0.001								0.036			
1-Apr-90	0.005 *		0.002 *		87		0.03 *		0.02 *		0.02			
9-Apr-90	0.005 *		0.002		85		0.03 *		0.02 *		0.07			95
15-Apr-90			0.01								0.026			
15-May-90			0.002 *								0.03			
15-Jun-90			0.002 *								0.02			
1-Jul-90	0.001 *		0.002 *		77		0.03 *		0.02 *		0.02 *			
9-Jul-90	0.001 *		0.002 *		74		0.03 *		0.02 *		0.02 *			120
15-Jul-90			0.001								0.018			
15-Aug-90			0.001 *								0.026			
15-Sep-90			0.01 *								0.027			
1-Oct-90	0.005 *		0.002 *		89		0.03 *		0.02 *		0.04			
2-Oct-90	0.005 *		0.006		82		0.03 *		0.02 *		0.12			110
15-Oct-90			0.001								0.033			
15-Nov-90			0.002								0.04			
15-Dec-90			0.002								0.032			
1-Jan-91	0.001 *		0.002		71		0.03 *		0.02 *		0.03			
1-Jan-91	0.001 *		2E-04 *		73		0.03 *		0.02 *		0.28			
7-Jan-91			0.002								0.03			112
12-Feb-91			0.001								0.036			
7-Mar-91			0.001 *								0.028			
8-Apr-91	0.001 *	0.001 *	1E-04 *	1E-04 *	70	74	0.03 *	0.03 *	0.02 *	0.02 *	0.026	0.024		70
8-Apr-91			0.001 *								0.027			
24-May-91			0.002								0.036			
3-Jun-91			0.001								0.032			
8-Jul-91	0.001 *	0.001 *	2E-04 *	2E-04 *	74	75	0.03 *	0.005 *	0.01 *	0.01 *	0.01	0.034		100
8-Jul-91			0.002								0.019			
5-Aug-91			0.002								0.021			
3-Sep-91			0.001								0.017			
8-Oct-91			0.002								0.027			
8-Oct-91	0.001 *		2E-04		84		0.005 *		0.02 *		0.04			110
4-Nov-91			0.002								0.027			
2-Dec-91			0.002								0.03			
7-Jan-92	0.001 *	0.001 *	1E-04	1E-04 *	67	65	0.005 *	0.005 *	0.02 *	0.02 *	0.026	0.026		92
3-Feb-92			0.001 *								0.03			
2-Mar-92			0.006								0.026			
6-Apr-92			0.002								0.024			

Appendix 1. Santa Rosa Reclaimed Water Metals, cyanide, and chloride, mg/l. *after a constituent indicates that it was below the detection limit. The number shown is the detection limit.

Date	Selenium		Silver		Sodium		Thallium		Vanadium		Zinc		Cyanide	Chloride
	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	diss	tot	tot
7-Apr-92	0.001 *	0.001 *	1E-04 *	1E-04 *	87	83	0.004 *	0.03 *	0.02 *	0.02 *	0.03	0.01		81
6-May-92			0.001								0.027			
1-Jun-92			0.002								0.022			
13-Jul-92			0.002								0.033			
15-Jul-92	0.001 *	0.001 *	2E-04 *	1E-04 *	82	78	0.001 *	0.001 *	0.02 *	0.02 *	0.04	0.03		86
3-Aug-92			0.002								0.019			
1-Sep-92			0.001								0.026			
12-Oct-92	0.001 *	0.001 *	1E-04 *	1E-04 *	150	74	0.001 *	0.001 *	0.02 *	0.02 *	0.04	0.05		79
12-Oct-92			0.001 *								0.024			
3-Nov-92			0.001 *								0.025			
1-Dec-92			0.002 *								0.026			
11-Jan-93	0.001 *		2E-04 *		58		0.001 *		0.02 *		0.02			59
11-Jan-93			0.001 *								0.018			
1-Feb-93			0.001								0.022			
2-Mar-93			0.001 *								0.023			
12-Apr-93	0.001 *		1E-04 *		61		0.001 *		0.02 *		0.03			72
12-Apr-93			0.005 *								0.016			
3-May-93			0.001								0.022			
1-Jun-93			0.005 *								0.018			
12-Jul-93			0.001 *								0.014			
13-Jul-93	0.001 *		2E-04		76		0.001 *		0.02 *		0.02			82
4-Aug-93			0.002								0.018			
1-Sep-93			0.002 *								0.02			
4-Oct-93														
11-Oct-93	0.001 *		4E-04		71		0.005 *		0.02 *		0.01			92
11-Oct-93			0.001 *								0.023			
4-Nov-93			0.001 *								0.026			
2-Dec-93			0.001 *								0.025			
10-Jan-94	0.001 *		2E-04 *		80		0.005 *		0.02 *		0.01 *			79
10-Jan-94			0.002								0.02			
1-Feb-94			0.002								0.029			
1-Mar-94			0.001 *								0.02			
11-Apr-94	0.001 *		5E-04		76		0.005 *		0.02 *		0.04			71
11-Apr-94			0.001 *								0.022			
3-May-94			0.001 *								0.037			
2-Jun-94			0.001 *								0.028			
11-Jul-94			0.001 *								0.024		0.01 *	88
2-Aug-94			0.001 *								0.032		0.03	
1-Sep-94			0.001 *								0.018		0.024	
4-Oct-94			9E-04								0.011		0.01 *	
14-Nov-94			4E-04 *								0.012			
14-Nov-94	0.001 *	0.001 *	4E-04	4E-04	75	73	0.005 *	0.005 *	0.02 *	0.02 *	0.02	0.02		73
16-Nov-94													0.01 *	
4-Dec-94			4E-04 *								0.011			
5-Dec-94													0.01 *	
22-Jan-95			2E-04 *								0.02			
30-Jan-95		0.005 *		0.005		56.45		0.03 *		0.02 *		0.058		46
31-Jan-95													0.009	

Appendix 2. Santa Rosa Reclaimed Water Organics, ug/L (except dioxins). *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Detectable values are in bold.

	7-Jan-91	10-Apr-91	10-Oct-91	7-Jan-92	6-Apr-92	13-Jul-92	11-Jan-93
EPA Method 624/8260: Purgeables							
Acetone		2 *	2 *	4	6	5 *	10 *
Benzene	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
Bromodichloromethane	4	11	1.1	2.5	6.5	1.7	1.3
Bromoform	0.2 *	0.2 *	0.2 *	0.2 *	0.2 *	0.5 *	0.5 *
Bromomethane	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	1.4	0.5 *
2-Butanone		2 *	2 *	2 *	2 *	5 *	5 *
Carbon Disulfide		0.5 *	0.6	0.5 *	0.5 *	37	0.5 *
Carbon Tetrachloride	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
Chlorobenzene	0.1 *	0.1 *	0.1 *	0.1 *	0.1	0.5 *	0.5 *
Chloroethane	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
2-Chloroethylvinyl Ether	1 *	1 *	1 *	1 *	1 *	1 *	1 *
Chloroform	30	44	9.8	10	24	8	3.7
Chloromethane	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	5	1 *
Dibromochloromethane	0.7	2.1	0.1 *	0.3	1.6	0.5 *	0.5 *
1,2-Dichlorobenzene							0.5 *
1,3-Dichlorobenzene							0.5 *
1,4 Dichlorobenzene							0.6
Dichlorodifluoromethane							0.5 *
1,1-Dichlorethane	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
1,2-Dichlorethane	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
1,1-Dichlorethene	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
Cis-1,2-Dichlorethene	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
Trans-1,2-Dichlorethene	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
1,2-Dichloropropane	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
Cis-1,3-Dichloropropene							0.5 *
Trans-1,3-Dichloropropene	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
Dichlorotrifluoroethane							0.5 *
Ethyl Benzene	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
2-Hexanone		2 *	2 *	2 *	2 *	5 *	5 *
Methylene Chloride	0.1 *	0.8	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
4-Methyl-2-Pentanone		2 *	2 *	2 *	2 *	5 *	5 *
Styrene		0.5 *	0.5 *	0.5 *	0.5 *		0.5 *
1,1,2,2-Tetrachloroethane	0.5 *	0.5 *	0.5 *	0.5 *	0.5 *	0.5 *	0.5 *
Tetrachloroethene (PCE)	0.1 *	0.1 *	0.1 *	0.1 *	0.3	0.5 *	0.6
Toluene	0.4	0.1 *	0.1 *	0.1 *	0.3	0.5 *	0.5 *
1,1,1-Trichloroethane	0.1 *	0.1 *	0.1 *	0.1 *	0.2	0.5 *	0.5 *
1,1,2-Trichloroethane	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
Trichloroethene	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
Trichlorofluoromethane	0.5 *	0.5 *	0.5 *	0.5 *	0.5 *	0.5 *	0.5 *
Trichlorotrifluoroethane						0.5 *	0.5 *
Vinyl Acetate		0.5 *	0.5 *	0.5 *	0.5 *	0.5 *	5 *
Vinyl Chloride	0.1 *	0.1 *	0.1 *	0.1 *	0.1 *	0.5 *	0.5 *
Total Xylenes	0.1 *	0.2 *	0.2 *	0.2 *	0.2		0.5 *
Total THMs							
EPA Method 608: Organochlorine Pesticides and PCBs							
Aldrin	0.01 *	0.01 *	0.03	0.01 *	0.01 *	1 *	0.01 *
a-BHC	0.03	0.01 *	0.01 *	0.01 *	0.01 *	1 *	0.01 *
b-BHC	0.01 *	0.01 *	0.01 *	0.01 *	0.01 *	1 *	0.01 *
d-BHC	0.01 *	0.01 *	0.01 *	0.01 *	0.01 *	1 *	0.01 *

Appendix 2. Santa Rosa Reclaimed Water Organics, ug/L (except dioxins). *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Detectable values are in bold.

	12-Apr-93	12-Jul-93	13-Oct-93	10-Jan-94	11-Apr-94	11-Jul-94	22-Jul-94
g-BHC	0.02 *	0.02 *	0.07	0.01 *	0.09	0.04	
Chlordane	0.02 *	0.04 *	0.02 *	0.01 *	0.04 *	0.1 *	
4,4'-DDD	0.01 *	0.02 *	0.01 *	0.01 *	0.02 *	0.05 *	
4,4'-DDE	0.01 *	0.02 *	0.01 *	0.01 *	0.02 *	0.05 *	
4,4'-DDT	0.01 *	0.02 *	0.01 *	0.01 *	0.02 *	0.05 *	
Dieldrin	0.01 *	0.02 *	0.01 *	0.01 *	0.02 *	0.05 *	
Endosulfan I	0.01 *	0.02 *	0.01 *	0.01 *	0.02 *	0.05 *	
Endosulfan II	0.01 *	0.02 *	0.01 *	0.01 *	0.02 *	0.05 *	
Endosulfan Sulfate	0.01 *	0.02 *	0.01 *	0.01 *	0.02 *	0.05 *	
Endrin	0.01 *	0.02 *	0.01 *	0.01 *	0.02 *	0.05 *	
Endrin Aldehyde	0.01 *	0.02 *	0.01 *	0.01 *	0.02 *	0.05 *	
Endrin Ketone							
Heptachlor	0.01 *	0.02 *	0.2 *	0.01 *	0.02 *	0.05 *	
Heptachlor Epoxide	0.01 *	0.02 *	0.01 *	0.01 *	0.02 *	0.05 *	
Methoxychlor	0.01 *	0.02 *	0.01 *	0.01 *	0.02 *	0.05 *	
Toxaphene	0.01 *	0.02 *	0.1 *	0.1 *	0.2 *	0.05 *	
PCB-1016	0.1 *	0.2 *	0.1 *	0.1 *	0.2 *	0.05 *	
PCB-1221	0.2 *	0.4 *	0.2 *	0.2 *	0.4 *	1 *	
PCB-1232	0.1 *	0.2 *	0.1 *	0.1 *	0.2 *	0.05 *	
PCB-1242	0.1 *	0.2 *	0.1 *	0.1 *	0.2 *	0.05 *	
PCB-1248	0.1 *	0.2 *	0.1 *	0.1 *	0.2 *	0.05 *	
PCB-1254	0.1 *	0.2 *	0.1 *	0.1 *	0.2 *	0.05 *	
PCB-1260	0.1 *	0.2 *	0.1 *	0.1 *	0.2 *	0.05 *	
EPA Method 625: Base Neutral Extractables							
Acenaphthene	1 *	1 *	1 *	1 *	1 *	1 *	
Acenaphthylene	1 *	1 *	1 *	1 *	1 *	1 *	
Anthracene	1 *	1 *	1 *	1 *	1 *	1 *	
Benzo (A) Anthracene	1 *	1 *	1 *	1 *	1 *	1 *	
Benzo (B) Fluoranthene	3 *	3 *	3 *	3 *	3 *	3 *	
Benzo (K) Fluoranthene	3 *	3 *	3 *	3 *	3 *	3 *	
Benzo (A) Pyrene	3 *	3 *	3 *	3 *	3 *	3 *	
Benzo (G,H,I) Perylene	3 *	3 *	3 *	3 *	3 *	3 *	
Benzidene	5 *	5 *	5 *	5 *	5 *	5 *	
Bis (2-Chloroethyl) Ether	5 *	5 *	5 *	5 *	5 *	5 *	
Bis (2-Chloroethoxy) Methane	1 *	1 *	1 *	1 *	1 *	1 *	
Bis (2-Ethylhexyl) Phthalate	5 *	5 *	5 *	6	5 *	5 *	
Bis (2-Chloroisopropyl) Ether	5 *	5 *	5 *	5 *	5 *	5 *	
4-Bromophenyl Phenyl Ether	1 *	1 *	1 *	1 *	1 *	1 *	
Butyl Benzene Phthalate	5 *	5 *	5 *	5 *	5 *	5 *	
2-Chloronaphthalene	1 *	1 *	1 *	1 *	1 *	1 *	
4-Chlorophenyl Phenyl Ether	1 *	1 *	1 *	1 *	1 *	1 *	
Chrysene	1 *	1 *	1 *	1 *	1 *	1 *	
Dibenzo (A,H) Anthracene	3 *	3 *	3 *	3 *	3 *	3 *	
Di-N-Butyl Phthalate	1 *	5 *	5 *	5 *	1 *	5 *	
1,3-Dichlorobenzene	1 *	1 *	1 *	1 *	1 *	1 *	
1,4-Dichlorobenzene	1 *	1 *	1 *	1 *	1 *	1 *	
1,2-Dichlorobenzene	1 *	1 *	1 *	1 *	1 *	1 *	
3,3'-Dichlorobenzidene	5 *	5 *	5 *	5 *	5 *	5 *	
Diethyl Phthalate	1 *	1 *	1 *	1 *	1 *	1 *	

Appendix 2. Santa Rosa Reclaimed Water Organics, ug/L (except dioxins). *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Detectable values are in bold.

	3-Aug-94	1-Sep-94	11-Oct-94	14-Nov-94	5-Dec-94	30-Jan-95	1-Feb-95
g-BHC				0.03		0.01 *	
Chlordane				0.02 *		0.02 *	
4,4'-DDD				0.01 *		0.01 *	
4,4'-DDE				0.01 *		0.01 *	
4,4'-DDT				0.01 *		0.01 *	
Dieldrin				0.01 *		0.01 *	
Endosulfan I				0.01 *		0.01 *	
Endosulfan II				0.01		0.01 *	
Endosulfan Sulfate				0.01 *		0.01 *	
Endrin				0.01 *		0.01 *	
Endrin Aldehyde				0.01 *		0.01 *	
Endrin Ketone				0.01 *		0.01 *	
Heptachlor				0.01 *		0.01 *	
Heptachlor Epoxide				0.01 *		0.01 *	
Methoxychlor				0.01 *		0.01 *	
Toxaphene				0.1 *		0.1 *	
PCB-1016				0.1 *		0.1 *	
PCB-1221				0.2 *		0.2 *	
PCB-1232				0.1 *		0.1 *	
PCB-1242				0.1 *		0.1 *	
PCB-1248				0.1 *		0.1 *	
PCB-1254				0.1 *		0.1 *	
PCB-1260				0.1 *		0.1 *	
EPA Method 625: Base Neutral Extractables							
Acenaphthene				1 *		1 *	
Acenaphthylene				1 *		1 *	
Anthracene				1 *		1 *	
Benzo (A) Anthracene				1 *		1 *	
Benzo (B) Fluoranthene				3 *		3 *	
Benzo (K) Fluoranthene				3 *		3 *	
Benzo (A) Pyrene				3 *		3 *	
Benzo (G,H,I) Perylene				3 *		3 *	
Benzidene				5 *		5 *	
Bis (2-Chloroethyl) Ether				5 *		5 *	
Bis (2-Chloroethoxy) Methane				1 *		1 *	
Bis (2-Ethylhexyl) Phthalate				5 *		5 *	
Bis (2-Chloroisopropyl) Ether				5 *		5 *	
4-Bromophenyl Phenyl Ether				1 *		1 *	
Butyl Benzene Phthalate				5 *		5 *	
2-Chloronaphthalene				1 *		1 *	
4-Chlorophenyl Phenyl Ether				1 *		1 *	
Chrysene				1 *		1 *	
Dibenzo (A,H) Anthracene				3 *		3 *	
Di-N-Butyl Phthalate				5 *		5 *	
1,3-Dichlorobenzene				1 *		1 *	
1,4-Dichlorobenzene				1 *		1 *	
1,2-Dichlorobenzene				1 *		1 *	
3,3'-Dichlorobenzidene				5 *		5 *	
Diethyl Phthalate				1 *		1 *	

Appendix 2. Santa Rosa Reclaimed Water Organics, ug/L (except dioxins). *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Detectable values are in bold.

	7-Jan-91	10-Apr-91	10-Oct-91	7-Jan-92	6-Apr-92	13-Jul-92	11-Jan-93
Dimethyl Phthalate	1 *	1 *	1 *	1 *	1 *	1 *	1 *
2,4-Dinitrotoluene	1 *	2 *	2 *	2 *	1 *	1 *	1 *
2,6-Dinitrotoluene	1 *	5 *	5 *	5 *	1 *	1 *	1 *
Diethyl Phthalate	1 *	1 *	1 *	1 *	1 *	1 *	1 *
Fluoranthene	1 *	1 *	1 *	1 *	1 *	1 *	1 *
Fluorene	1 *	1 *	1 *	1 *	1 *	1 *	1 *
Hexachlorobenzene	5 *	5 *	5 *	5 *	5 *	5 *	5 *
Hexachlorobutadiene	2 *	2 *	2 *	2 *	5 *	5 *	5 *
Hexachloroethane	1 *	1 *	1 *	1 *	1 *	1 *	1 *
Hexachlorocyclopentadiene	5 *	5 *	5 *	5 *	5 *	5 *	5 *
Indeno (1,2,3-CD) Pyrene	1 *	1 *	1 *	1 *	1 *	3 *	3 *
Isophorone	5 *	5 *	5 *	5 *	5 *	5 *	5 *
Naphthalene	1 *	1 *	1 *	1 *	1 *	1 *	1 *
Nitrobenzene	2 *	2 *	2 *	2 *	2 *	5 *	5 *
N-Nitrosodimethylamine	20 *	20 *	20 *	20 *	2 *	5 *	5 *
N-Nitrosodi-N-Propylamine	1 *	2 *	1 *	1 *	1 *	1 *	1 *
N-Nitrosodiphenylamine	2 *	1 *	2 *	2 *	2 *	5 *	5 *
Phenanthrene	1 *	1 *	1 *	1 *	1 *	1 *	1 *
Pyrene	1 *	1 *	1 *	1 *	1 *	1 *	1 *
1,2,4-Trichlorobenzene	2 *	2 *	2 *	2 *	2 *	5 *	5 *
4-Chloro-3-Methylphenol	1 *	1 *	1 *	1 *	1 *	1 *	1 *
2-Chlorophenol	1 *	1 *	1 *	1 *	1 *	1 *	1 *
2,4-Dichlorophenol	1 *	1 *	1 *	1 *	1 *	1 *	1 *
2,4-Dimethylphenol	1 *	1 *	1 *	1 *	1 *	1 *	1 *
2,4-Dinitrophenol	5 *	5 *	5 *	5 *	5 *	5 *	5 *
2-Methyl-4,6-Dinitrophenol	5 *	5 *	5 *	5 *	5 *	5 *	5 *
2-Nitrophenol	1 *	1 *	1 *	1 *	1 *	1 *	1 *
4-Nitrophenol	1 *	1 *	1 *	1 *	1 *	5 *	5 *
Pentachlorophenol	1 *	1 *	1 *	1 *	1 *	1 *	1 *
Phenol	1 *	1 *	1 *	1 *	1 *	1 *	1 *
2,4,6-Trichlorophenol	1 *	1 *	1 *	1 *	1 *	1 *	1 *
1,2-Diphenylhydrazine							
Aldrin							
a-BHC							
b-BHC							
d-BHC							
g-BHC							
Chlordane							
4,4'-DDD							
4,4'-DDE							
4,4'-DDT							
Dieldrin							
Endosulfan I							
Endosulfan II							
Endosulfan Sulfate							
Endrin							
Endrin Aldehyde							
Heptachlor							
Heptachlor Epoxide							
Methoxychlor							

Appendix 2. Santa Rosa Reclaimed Water Organics, ug/L (except dioxins). *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Detectable values are in bold.

	12-Apr-93	12-Jul-93	13-Oct-93	10-Jan-94	11-Apr-94	11-Jul-94	22-Jul-94
Dimethyl Phthalate	1 *	1 *	1 *	1 *	1 *	1 *	
2,4-Dinitrotoluene	1 *	1 *	1 *	1 *	1 *	1 *	
2,6-Dinitrotoluene	1 *	1 *	1 *	1 *	1 *	1 *	
Diocetyl Phthalate	1 *	1 *	1 *	1 *	1 *	1 *	
Fluoranthene	1 *	1 *	1 *	1 *	1 *	1 *	
Fluorene	1 *	1 *	1 *	1 *	1 *	1 *	
Hexachlorobenzene	5 *	5 *	5 *	5 *	5 *	5 *	
Hexachlorobutadiene	5 *	5 *	5 *	5 *	5 *	5 *	
Hexachloroethane	1 *	1 *	1 *	1 *	1 *	1 *	
Hexachlorocyclopentadiene	5 *	5 *	5 *	5 *	5 *	5 *	
Indeno (1,2,3-CD) Pyrene	3 *	3 *	3 *	3 *	3 *	3 *	
Isophorone	5 *	5 *	5 *	5 *	5 *	5 *	
Naphthalene	1 *	1 *	1 *	1 *	1 *	1 *	
Nitrobenzene	5 *	5 *	5 *	5 *	5 *	5 *	
N-Nitrosodimethylamine	5 *	5 *	5 *	5 *	5 *	5 *	
N-Nitrosodi-N-Propylamine	1 *	1 *	1 *	1 *	1 *	1 *	
N-Nitrosodiphenylamine	5 *	5 *	5 *	5 *	5 *	5 *	
Phenanthrene	1 *	1 *	1 *	1 *	1 *	1 *	
Pyrene	1 *	1 *	1 *	1 *	1 *	1 *	
1,2,4-Trichlorobenzene	5 *	5 *	5 *	5 *	5 *	5 *	
4-Chloro-3-Methylphenol	1 *	1 *	1 *	1 *	1 *	1 *	
2-Chlorophenol	1 *	1 *	1 *	1 *	1 *	1 *	
2,4-Dichlorophenol	1 *	1 *	1 *	1 *	1 *	1 *	
2,4-Dimethylphenol	5 *	5 *	5 *	5 *	5 *	5 *	
2,4-Dinitrophenol	5 *	5 *	5 *	5 *	5 *	5 *	
2-Methyl-4,6-Dinitrophenol	5 *	5 *	5 *	5 *	5 *	5 *	
2-Nitrophenol	1 *	1 *	1 *	1 *	1 *	1 *	
4-Nitrophenol	5 *	5 *	5 *	5 *	5 *	5 *	
Pentachlorophenol	1 *	1 *	1 *	1 *	1 *	1 *	
Phenol	1 *	1 *	1 *	1 *	1 *	1 *	
2,4,6-Trichlorophenol	1 *	1 *	1 *	1 *	1 *	1 *	
1,2-Diphenylhydrazine							
Aldrin							
a-BHC							
b-BHC							
d-BHC							
g-BHC							
Chlordane							
4,4'-DDD							
4,4'-DDE							
4,4'-DDT							
Dieldrin							
Endosulfan I							
Endosulfan II							
Endosulfan Sulfate							
Endrin							
Endrin Aldehyde							
Heptachlor							
Heptachlor Epoxide							
Methoxychlor							

Appendix 2. Santa Rosa Reclaimed Water Organics, ug/L (except dioxins). *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Detectable values are in bold.

	3-Aug-94	1-Sep-94	11-Oct-94	14-Nov-94	5-Dec-94	30-Jan-95	1-Feb-95
Dimethyl Phthalate				1 *		1 *	
2,4-Dinitrotoluene				1 *		1 *	
2,6-Dinitrotoluene				1 *		1 *	
Diocetyl Phthalate				1 *		1 *	
Fluoranthene				1 *		1 *	
Fluorene				1 *		1 *	
Hexachlorobenzene				5 *		5 *	
Hexachlorobutadiene				5 *		5 *	
Hexachloroethane				1 *		1 *	
Hexachlorocyclopentadiene				5 *		5 *	
Indeno (1,2,3-CD) Pyrene				3 *		3 *	
Isophorone				5 *		5 *	
Naphthalene				1 *		1 *	
Nitrobenzene				5 *		5 *	
N-Nitrosodimethylamine				5 *		5 *	
N-Nitrosodi-N-Propylamine				1 *		1 *	
N-Nitrosodiphenylamine				5 *		5 *	
Phenanthrene				1 *		1 *	
Pyrene				1 *		1 *	
1,2,4-Trichlorobenzene				5 *		5 *	
4-Chloro-3-Methylphenol				1 *		1 *	
2-Chlorophenol				1 *		1 *	
2,4-Dichlorophenol				1 *		1 *	
2,4-Dimethylphenol				5 *		5 *	
2,4-Dinitrophenol				5 *		5 *	
2-Methyl-4,6-Dinitrophenol				5 *		5 *	
2-Nitrophenol				1 *		1 *	
4-Nitrophenol				5 *		5 *	
Pentachlorophenol				1 *		1 *	
Phenol				1 *		1 *	
2,4,6-Trichlorophenol				1 *		1 *	
1,2-Diphenylhydrazine				1 *		1 *	
Aldrin				1 *		1 *	
a-BHC				1 *		1 *	
b-BHC				1 *		1 *	
d-BHC				1 *		1 *	
g-BHC				1 *		1 *	
Chlordane				10 *		10 *	
4,4'-DDD				1 *		1 *	
4,4'-DDE				1 *		1 *	
4,4'-DDT				1 *		1 *	
Dieldrin				1 *		1 *	
Endosulfan I				1 *		1 *	
Endosulfan II				1 *		1 *	
Endosulfan Sulfate				1 *		1 *	
Endrin				1 *		1 *	
Endrin Aldehyde				1 *		1 *	
Heptachlor				1 *		1 *	
Heptachlor Epoxide				1 *		1 *	
Methoxychlor				1 *		1 *	

Appendix 2. Santa Rosa Reclaimed Water Organics, ug/L (except dioxins). *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Detectable values are in bold.

	7-Jan-91	10-Apr-91	10-Oct-91	7-Jan-92	6-Apr-92	13-Jul-92	11-Jan-93
Toxaphene							
PCB-1016							
PCB-1221							
PCB-1232							
PCB-1242							
PCB-1248							
PCB-1254							
PCB-1260							
EPA 515.1 Chlorinated Herbicides							
2,4-D							
2,4,5-TP (Silvex)							
Bentazon							
Dalapon							
Dicamba							
Dinoseb							
Pentachlorophenol							
Picloram							
EPA 507 Organonitrogen/ Organophosphorus Pesticides							
Atrazine							
Bromacil							
Butachlor							
Diazinon							
Dimethoate							
Metolachlor							
Metribuzin							
Molinate							
Prometryn							
Propachlor							
Simazine							
Thiobencarb (Benthiocarb)							
Dioxins							
2,3,7,8-TCDD (ng/L)							
2,3,7,8-TCDD (pg/L)							
Total TCDD (pg/L)							
1,2,3,7,8-PeCDD (pg/L)							
Total PeCDD (pg/L)							
1,2,3,4,7,8-HxCDD (pg/L)							
1,2,3,6,7,8-HxCDD (pg/L)							
1,2,3,7,8,9-HxCDD (pg/L)							
Total HxCDD (pg/L)							
1,2,3,4,6,7,8-HpCDD (pg/L)							
Total HpCDD (pg/L)							
OCDD (pg/L)							
2,3,7,8-TCDF (pg/L)							
Total TCDF (pg/L)							
1,2,3,7,8-PeCDF (pg/L)							
2,3,4,7,8-PeCDF (pg/L)							
Total PeCDF (pg/L)							
1,2,3,4,7,8-HxCDF (pg/L)							

Appendix 2. Santa Rosa Reclaimed Water Organics, ug/L (except dioxins). *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Detectable values are in bold.

	12-Apr-93	12-Jul-93	13-Oct-93	10-Jan-94	11-Apr-94	11-Jul-94	22-Jul-94
Toxaphene							
PCB-1016							
PCB-1221							
PCB-1232							
PCB-1242							
PCB-1248							
PCB-1254							
PCB-1260							
EPA 515.1 Chlorinated Herbicides			10/4/93				
2,4-D			0.1 *				
2,4,5-TP (Silvex)			0.1 *				
Bentazon			2 *				
Dalapon			1 *				
Dicamba			1 *				
Dinoseb			0.2 *				
Pentachlorophenol			1 *				
Picloram			0.1 *				
EPA 507 Organonitrogen/ Organophosphorus Pesticides							
Atrazine			0.1 *				
Bromacil			0.1 *				
Butachlor			0.3 *				
Diazinon			0.25 *				
Dimethoate			0.1 *				
Metolachlor			0.2 *				
Metribuzin			0.2 *				
Molinate			0.1 *				
Prometryn			0.1 *				
Propachlor			0.3 *				
Simazine			0.7 *				
Thiobencarb (Benthiocarb)			0.1 *				
Dioxins							
2,3,7,8-TCDD (ng/L)							2.3 *
2,3,7,8-TCDD (pg/L)							3.9 *
Total TCDD (pg/L)							2.3 *
1,2,3,7,8-PeCDD (pg/L)							2.3 *
Total PeCDD (pg/L)							3.5 *
1,2,3,4,7,8-HxCDD (pg/L)							3.3 *
1,2,3,6,7,8-HxCDD (pg/L)							3 *
1,2,3,7,8,9-HxCDD (pg/L)							3.5 *
Total HxCDD (pg/L)							5.8 *
1,2,3,4,6,7,8-HpCDD (pg/L)							5.8 *
Total HpCDD (pg/L)							28 *
OCDD (pg/L)							2.1 *
2,3,7,8-TCDF (pg/L)							2.1 *
Total TCDF (pg/L)							2.7 *
1,2,3,7,8-PeCDF (pg/L)							2.9 *
2,3,4,7,8-PeCDF (pg/L)							2.9 *
Total PeCDF (pg/L)							3.1 *
1,2,3,4,7,8-HxCDF (pg/L)							

Appendix 2. Santa Rosa Reclaimed Water Organics, ug/L (except dioxins). *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Detectable values are in bold.

	3-Aug-94	1-Sep-94	11-Oct-94	14-Nov-94	5-Dec-94	30-Jan-95	1-Feb-95
Toxaphene				10 *		10 *	
PCB-1016				10 *		10 *	
PCB-1221				10 *		10 *	
PCB-1232				10 *		10 *	
PCB-1242				10 *		10 *	
PCB-1248				10 *		10 *	
PCB-1254				10 *		10 *	
PCB-1260				10 *		10 *	
EPA 515.1 Chlorinated Herbicides							
2,4-D							
2,4,5-TP (Silvex)							
Bentazon							
Dalapon							
Dicamba							
Dinoseb							
Pentachlorophenol							
Picloram							
EPA 507 Organonitrogen/ Organophosphorus Pesticides							
Atrazine							
Bromacil							
Butachlor							
Diazinon							
Dimethoate							
Metolachlor							
Metribuzin							
Molinate							
Prometryn							
Propachlor							
Simazine							
Thiobencarb (Benthiocarb)							
Dioxins							
2,3,7,8-TCDD (ng/L)	10 *	2 *			2 *		
2,3,7,8-TCDD (pg/L)			2.6 *	6.2 *			2.5 *
Total TCDD (pg/L)			2.6 *	6.2 *			2.5 *
1,2,3,7,8-PeCDD (pg/L)			3.6 *	2.5 *			1 *
Total PeCDD (pg/L)			3.6 *	2.5 *			1 *
1,2,3,4,7,8-HxCDD (pg/L)			3.1 *	3.4 *			2.2 *
1,2,3,6,7,8-HxCDD (pg/L)			3.3 *	3.6 *			2.3 *
1,2,3,7,8,9-HxCDD (pg/L)			3.2 *	3.6 *			2.3 *
Total HxCDD (pg/L)			3.3 *	3.6 *			2.3 *
1,2,3,4,6,7,8-HpCDD (pg/L)			2.3 *	6 *			4.6 *
Total HpCDD (pg/L)			2.3 *	6 *			7.6 *
OCDD (pg/L)			10 *	18 *			27 *
2,3,7,8-TCDF (pg/L)			1.3 *	2.1 *			1.2 *
Total TCDF (pg/L)			1.3 *	2.1 *			1.2 *
1,2,3,7,8-PeCDF (pg/L)			1.5 *	2.5 *			1.9 *
2,3,4,7,8-PeCDF (pg/L)			1.5 *	2.4 *			1.9 *
Total PeCDF (pg/L)			1.5 *	2.5 *			1.9 *
1,2,3,4,7,8-HxCDF (pg/L)			2 *	2.9 *			2.3 *

Appendix 2. Santa Rosa Reclaimed Water Organics, ug/L (except dioxins). *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Detectable values are in bold.

	7-Jan-91	10-Apr-91	10-Oct-91	7-Jan-92	6-Apr-92	13-Jul-92	11-Jan-93
1,2,3,6,7,8-HxCDF (pg/L)							
2,3,4,6,7,8-HxCDF (pg/L)							
1,2,3,7,8,9-HxCDF (pg/L)							
Total HxCDF (pg/L)							
1,2,3,4,6,7,8-HpCDF (pg/L)							
1,2,3,4,7,8,9-HpCDF (pg/L)							
Total HpCDF (pg/L)							
OCDF (pg/L)							
Total volatile organics							

Appendix 2. Santa Rosa Reclaimed Water Organics, ug/L (except dioxins). *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Detectable values are in bold.

	12-Apr-93	12-Jul-93	13-Oct-93	10-Jan-94	11-Apr-94	11-Jul-94	22-Jul-94
1,2,3,6,7,8-HxCDF (pg/L)							2.9 *
2,3,4,6,7,8-HxCDF (pg/L)							3.9 *
1,2,3,7,8,9-HxCDF (pg/L)							3.2 *
Total HxCDF (pg/L)							3.9 *
1,2,3,4,6,7,8-HpCDF (pg/L)							2.3 *
1,2,3,4,7,8,9-HpCDF (pg/L)							2.8 *
Total HpCDF (pg/L)							2.8 *
OCDF (pg/L)							4.2 *
Total volatile organics							

Appendix 2. Santa Rosa Reclaimed Water Organics, ug/L (except dioxins). *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Detectable values are in bold.

	3-Aug-94	1-Sep-94	11-Oct-94	14-Nov-94	5-Dec-94	30-Jan-95	1-Feb-95
1,2,3,6,7,8-HxCDF (pg/L)			2 *	2.9 *			2.3 *
2,3,4,6,7,8-HxCDF (pg/L)			2.1 *	3 *			2.6 *
1,2,3,7,8,9-HxCDF (pg/L)			2.5 *	3.5 *			3 *
Total HxCDF (pg/L)			2.5 *	3.5 *			3 *
1,2,3,4,6,7,8-HpCDF (pg/L)			2.6 *	2.1 *			3.6 *
1,2,3,4,7,8,9-HpCDF (pg/L)			3 *	2.8 *			2.3 *
Total HpCDF (pg/L)			3 *	2.8 *			3.6 *
OCDF (pg/L)			2.9 *	8.8 *			7 *
Total volatile organics						8.1	

Appendix 3. Santa Rosa Reclaimed Water Routine Constituents, mg/L except as noted. *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Bolded areas indicate months when plant not nitrifying.

Date	Ammonia (mg N/L)			TKN (mg/L) compos.	Nitrite (mg N/L)			Nitrate (mg N/L)			Phosphate (mg P/L)		
	Avg	Min	Max		Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
Jan-91	2.9	0.1	10.1		1.33	0.1	2.5	15.7	11.6	20	5.4	4.9	5.8
Feb-91	1.4	0.1	4.8		0.65	0.15	2	15.2	11.2	23	5.9	5.5	6.7
Mar-91	1.7	0.1	6.4		0.34	0.04	0.8	13.8	6.1	19.3	3.1	2.2	3.9
Apr-91	0.7	0.1	9		0.43	0.07	1.76	18.3	8	24.8	4.7	4.4	5
May-91	0.8	0.1	5.5		0.52	0.18	1.4	18.4	15.4	20.4	6.1	5	7.1
Jun-91	2.3	0.6	9		0.95	0.6	1.46	18.1	12	28.2	5.7	5.1	6.3
Jul-91	17.9	2.1	29.6		0.79	0.02	1.86	3.9	1.1	12.4	4.9	2.4	7.1
Aug-91	17.7	11.4	25.7		1.98	0.08	5	0.7	0.3	1	4.5	3	5.9
Sep-91	10	0.1	25.9		2.5	0.15	7.3	6.3	0.8	15.6	5.2	4.1	6.4
Oct-91	5.8	0.1	16.5		0.57	0.05	1.7	15.7	8.7	20.3	5.7	5.4	6.2
Nov-91	2.4	0.1	8.9		0.13	0.05	0.27	20.8	14.6	34	5.7	5.2	6.1
Dec-91	0.9	0.1	5.2		0.36	0.04	1.75	17.9	8.4	22.5	6.2	5.8	7
Jan-92	1.3	0.2	7.1		0.93	0.03	3.3	15.1	7.6	23.4	4.8	4.5	5.3
Feb-92	1.6	0.1	8.9		0.78	0.11	2.1	15.7	8.9	38	3.4	2.7	4.7
Mar-92	0.5	0.1	2.6		0.32	0.04	0.96	15.3	8.6	25.1	3.8	2.3	4.8
Apr-92	0.9	0.1	4.4		0.58	0.01	1.3	15.8	11.6	20.9	4.7	3.3	6.2
May-92	0.1	0.1	0.7		0.15	0.01	1.06	16.6	11.4	20.4	6	5.2	7.1
Jun-92	0.6	0.5 *	1.9		0.13	0.01 *	0.6	19	15.4	24.5	6	5.1	7.7
Jul-92	0.9	0.5 *	1.8					19.2	16.7	21.5	6	4.6	8.4
Aug-92	0.9	0.5 *	2.6		0.03	0.01 *	0.16	16.1	12.6	20.7	5.6	5.2	6.2
Sep-92	2.5	0.5 *	7.8		0.15	0.01 *	1.6	16.5	9.7	23.1	6.4	5.2	7.8
Oct-92	2.7	0.9	8.5		0.08	0.01 *	0.42	22.3	10.7	37.8	4.5	3.9	5.4
Nov-92	3.8	1.1	14.9		0.15	0.01 *	0.6	23.8	16.1	34.4	5.4	4.4	6.2
Dec-92	3.4	0.5 *	14.5		0.02	0.01 *	0.14	24.1	14.9	44.4	5	4.3	6.5
Jan-93	2.7	0.6	7.8		0.02	0.01 *	0.07	16.7	9.5	28.6	4.3	3.2	6
Feb-93	2.1	0.5	5.4		0.01 *	0.01 *	0.03	16.6	8.8	21.6	3.6	2.6	4.1
Mar-93	2.2	0.5	5.9		0.06	0.01	0.64	18.5	12.9	24.3	4.2	3.6	4.8
Apr-93	2.4	0.5	7.5		0.02	0.01	0.09	17.7	12.6	22.4	4.1	3.1	4.8
May-93	16.1	0.5	37		0.42	0.01	1.1	9.6	5.4	21.9	4.2	4	4.6
Jun-93	24.6	11.8	40.3		0.64	0.31	0.9	7.7	3.7	14.6	2.8	2.5	3.5
Jul-93	18.4	6.3	37.4		0.7	0.31	1.28	6.4	0.4	14.9	2.9	1.8	4.9
Aug-93	1.9	0.5 *	3.7		0.19	0.01 *	2.5	20.9	15.1	27.4	5.3	4.1	8.1
Sep-93	1.9	0.7	4.3		0.01 *	0.01 *	0.05	21	16.2	26.4	3.8	3.4	4.3
Oct-93	1.9	1	4.2		0.02	0.01 *	0.11	20.2	15.1	27.8	3.6	3	4
Oct-93													
Nov-93	3	1.1	6.3		0.03	0.01 *	0.26	13.6	8.9	16.9	3.6	2	4.1
Dec-93	2.6	0.5 *	7.6		0.04	0.01 *	0.2	14.9	9.6	19.9	3.3	2.4	4.2
Jan-94	3	0.5 *	9.7		0.04	0.01 *	0.16	15.6	11.9	18.5	3.4	2.6	3.8
Feb-94	2.3	0.5 *	4		0.02	0.01 *	0.05	16.2	9.6	28.5	2.7	2.1	3.3
Mar-94	2.5	0.9	8.1		0.03	0.01 *	0.12	22.4	13.4	36.1	3.6	3.3	3.8
Apr-94	2.5	0.9	4.9		0.02	0.02	0.03	22	16.5	32.4	3.6	3.4	3.9
May-94	1.6	0.6	7.7		0.03	0.01 *	0.18	19.3	13.8	28.2	3.4	3.2	3.8
Jun-94	7.8	1	19.3		0.24	0.01 *	0.54	9.6	4.5	23.4	1.1	0.1	2.7
Jul-94	2.8	1.8	5.1		0.05	0.01 *	0.55	15.2	10.4	25.9	2.8	2.3	3.8
Aug-94	2.3	0.5	3.4		0.02	0.01 *	0.06	16.3	12.8	23.2	3.4	2.8	3.8
Sep-94	2.3	1.8	4		0.01 *	0.01 *	0.01	23.9	17.6	50.5	3.3	3.3	3.4
Oct-94	2.3	1.9	3.2		0.013	0.01	0.03	21.8	17	23.7	4.6	2.7	7.2
Nov-94	2.5	0.2	3.2	3.5	0.01	0.1 *	0.12	17.9	14.7	25.9	3.3	1.6	7.2
Dec-94	2.1	1	7.2		0.01	0.01 *	0.18	17.4	13	20.3	2.3	2	3
Jan-95	2.2	0.1 *	8.6		0.01	0.01 *	0.06	14.7	9.5	22.3	1.5	1	2.5
Feb-95				69.5									
	avg 2.0 when nitrifying 4.1 overall							avg 18.1 when nitrifying 16.3 overall					

Appendix 3. Santa Rosa Reclaimed Water Routine Constituents, mg/L except as noted. *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Bolded areas indicate months when plant not nitrifying.

Date	Alkalinity (mg/L)			TDS (mg/L)			TOC			BOD (mg/L)		
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max
Jan-91	122	85	154							4	3.1	5.3
Feb-91	122	92	158	458.5	400	516				4	2.4	5.5
Mar-91	135	90	153	383.6	332	443				2.5	1.8	3.8
Apr-91				480.1	454	505				3.3	1.9	5.6
May-91	135	120	189	483.4	465	524				2.4	1.5	3.3
Jun-91	142	118	181	494.4	442	528				2.9	2	3.8
Jul-91	257	163	303	437	396	473				5.3	2	12
Aug-91	240	190	272	445.4	415	480				2.8	2	5.9
Sep-91	187	122	261	484.3	446	576				2.6	2	4.3
Oct-91	158	102	227	475.4	420	526				3.2	2.4	3.8
Nov-91										3.3	2	4.2
Dec-91	124	93	153	457.3	391	497				3.7	2.5	5.6
Jan-92	136	117	172	468.6	455	500				3.7	2.2	5
Feb-92	126	100	148	449.5	401	484				3.5	1.5	5
Mar-92	132	113	150	449.1	418	504				2.5	1.9	3.5
Apr-92	143	113	164	491.2	469	510				3	2.3	3.8
May-92	119	98	130	478.3	406	509				2.2	1.5	2.9
Jun-92	116	94	150	439.4	150	499				2.5	1.6	3.1
Jul-92	107	1	125	460.3	332	530				2.2	1.6	3
Aug-92	108	71	131	480.2	433	528				2.6	2	3.4
Sep-92	114	96	153	463.6	370	517				2.4	2	3.5
Oct-92	116	90	185	463.9	365	530				2.2	2	2.5
Nov-92	122	86	167	481.9	442	538				2.6	2	4
Dec-92	121	86	155	459.8	394	550				2.6	2	3.1
Jan-93	131	96	170	366.8	322	440				2.5	2	3.3
Feb-93	132	99	160	405.3	283	483				3.1	2	4.7
Mar-93	141	112	165	449.1	398	628				3	2	4.6
Apr-93	138	115	160	472.9	418	558				8.1	3.2	15
May-93										3.1	2	7.1
Jun-93										4	2	16.6
Jul-93	217	136	279	412	378	440				2.9	2	5
Aug-93	124	101	150	462.6	439	492				4	2	11.6
Sep-93	116	102	136	444.4	293	524				6	2	18
Oct-93	112	82	143	457.8	429	502				2.2	2	2.7
Nov-93	125	108	143	451	425	495				2.3	2	3.4
Dec-93	135	114	177	357.3	1.3	456				3	2	7.8
Jan-94	145	112	170	413.7	343	454				6.9	2.5	13.1
Feb-94	142	111	163	404	344	459				4.2	2.1	8.7
Mar-94	139	121	164	444	422	471				4.5	2	6.9
Apr-94	131	118	152	434.8	366	470				6.6	4.2	10.5
May-94	137	121	161	437.4	392	478	17.2	17.2	17.2	3.3	2	5.9
Jun-94	179	101	232	427.7	388	468	25.8	2.4	37.1	5.3	2	19
Jul-94	137	117	155	439.3	410	478	7.5	5.2	12.2	3.9	2	17
Aug-94	130	122	140	440.8	410	466	5.3	4.3	6.1	2	2	2
Sep-94	119	104	132	440.9	417	461	4.7	3.6	5.8	2	2	2
Oct-94	119	107	136	455.2	426	507	4.1	2.6	6.8	2	2	2.2
Nov-94	125	89	144	411.6	360	457	8.4	4.5	14	2.1	2	2.8
Dec-94	132	113	162	414	374	453	7.5	4.6	10.2	2.4	2	3.2
Jan-95	133	106	155	351.8	322	378	3.5	2.4	5.4	4	2	10
Feb-95												

Appendix 3. Santa Rosa Reclaimed Water Routine Constituents, mg/L except as noted. *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Bolded areas indicate months when plant not nitrifying.

Date	Solids (NFR)(mg/L)			pH			Coliform (MPN)			Virus (PFU)	Turbidity (NTU)			Color (CU)
	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max		Avg	Min	Max	
Jan-91	5.3	3	15.6	6.5	6.2	6.9	2	2 *	13		2.08	1.1	5.2	
Feb-91	4.6	2.7	7.4	6.5	6	6.7	2	2 *	22		2.57	1.7	3.8	
Mar-91	2.2	1.2	4.4	6.5	6	6.9	2	2 *	11		1.14	0.6	2.7	
Apr-91	1.8	0.8	3	6.7	6.3	7	2 *	2 *	14		0.89	0.5	1.8	
May-91	1.2	0.6	1.8	6.7	6.5	6.9	2 *	2 *	17		0.56	0.4	0.8	
Jun-91	1.4	0.7	2.4	6.7	6.4	7	2 *	2 *	5		0.73	0.4	1.2	
Jul-91	1.7	0.9	3.8	6.9	6.3	7.2	2	2 *	13		1.13	0.7	3.3	
Aug-91	1.7	0.8	3	7	6.8	7.1	2 *	2 *	33		1.25	0.6	1.9	
Sep-91	1.5	1	2.2	6.7	6.5	7.1	2 *	2 *	8		1.27	1	2.2	
Oct-91	2.1	1.2	3.6	6.8	6.4	7.1	2	2 *	8		1.45	1.1	2	
Nov-91	2.4	1.4	4.2	6.9	6.5	7.4	2	2 *	8		1.49	1	2.8	
Dec-91	3.1	1.4	5.6	6.8	6.5	7	2	2 *	14		1.51	1	2.2	
Jan-92	2.2	1	3.4	6.7	6.4	7	2	2 *	130		1.3	0.9	1.8	
Feb-92	2.1	0.6	4.2	6.7	6.4	7.1	2	2 *	23		1.04	0.5	1.9	
Mar-92	2	0.8	10.5	6.8	6.5	7	2	2 *	170		1	0.6	2	
Apr-92	1.6	0.8	2.4	6.8	6.4	7.3	2	2 *	49		1.08	0.7	1.9	
May-92	1.6	1.1	2.2	6.9	6.6	7.3	2	2 *	13		0.7	0.4	1.1	
Jun-92	1.4	0.8	2	6.8	6.6	7.1	2 *	2 *	5	<1/151	0.66	0.4	1	
Jul-92	1.2	0.4	2.3	7.2	6.5	7.4	2 *	2 *	2		0.5	0.3	0.9	
Aug-92	1.4	0.7	2.8	7.1	6.7	7.5	2 *	2 *	5		0.83	0.4	1.9	
Sep-92	1.3	0.6	2.2	7.3	6.5	7.8	2 *	2 *	49		0.79	0.6	1.1	
Oct-92	1.7	0.8	2.6	7	6.5	7.7	2 *	2 *	17		1.05	0.5	1.5	
Nov-92	1.6	0.8	2.8	6.8	6.5	7.4	2 *	2 *	8		0.95	0.6	1.5	
Dec-92	1.7	0.6	4.8	6.8	6.5	7.3	2 *	2 *	8		0.78	0.4	1.2	
Jan-93	1.3	0.6	2.2	6.9	6.5	7.3	2 *	2 *	6		0.69	0.4	1.2	
Feb-93	1.4	0.7	3	6.9	6.5	7.5	2 *	2 *	9		0.61	0.4	0.9	
Mar-93	1.5	0.6	3.8	6.8	6.6	7.1	2 *	2 *	5		0.63	0.5	0.9	
Apr-93	1.7	0.9	4	6.8	6.5	7.1	2 *	2 *	5		0.78	0.5	1.6	
May-93	1.7	1.1	2.6	7	6.7	7.6	2 *	2 *	23		1.15	0.8	1.7	
Jun-93	1.7	1.2	2.7	6.9	6.6	7.8	2 *	2 *	5		1.08	0.8	2.3	
Jul-93	1.5	1	3	7.1	6.4	7.7	2 *	2 *	4		1.01	0.8	2.6	
Aug-93	1.3	0.6	1.8	7	6.6	7.3	2 *	2 *	23		0.89	0.5	1.3	
Sep-93	1.3	0.8	2.2	7.1	6.5	7.4	2 *	2 *	8		0.87	0.4	1.7	
Oct-93	1.4	0.8	2	7.1	6.8	7.8	2 *	2 *	13		0.78	0.5	1.1	
Nov-93	1.3	0.8	1.8	6.8	6.5	7	2 *	2 *	8		0.93	0.7	1.2	
Dec-93	1.3	0.8	2	7	6.7	7.2	2 *	2 *	2		0.71	0.4	1.2	
Jan-94	1.4	0.7	2.9	7	6.7	7.2	2 *	2 *	4		0.8	0.4	1.4	
Feb-94	1.5	0.9	3.4	6.9	6.7	7.3	2 *	2 *	7		0.73	0.4	1.5	
Mar-94	1.7	1	4.4	6.9	6.6	7.2	2 *	2 *	8		0.75	0.3	1.6	
Apr-94	1.3	0.8	1.8	6.8	6.6	7.1	2 *	2 *	2		0.61	0.3	1	
May-94	1.3	0.6	2	7.1	6.6	7.5	2 *	2 *	4		0.58	0.3	1	
Jun-94	1.7	0.6	2.8	7	6.6	7.4	2 *	2 *	50	<1/164L	0.74	0.2	1.1	
Jul-94	1.3	1	1.8	7.1	6.8	7.4	2 *	2 *	8	<1/158L	0.64	0.4	1	
Aug-94	1.1	0.8	1.4	7.3	6.8	7.6	2 *	2 *	2	<1/199L	0.57	0.3	1	
Sep-94	1.3	0.5	2.9	7.2	6.6	7.5	2 *	2 *	2	<1/151L	0.64	0.3	1.3	
Oct-94	1.2	0.8	2.7	7	6.8	7.2	2 *	2 *	2	<1/156L	0.61	0.4	1.2	
Nov-94	1.8	0.9	2.7	7	6.5	7.2	2 *	2 *	2		0.95	0.5	1.7	
Dec-94	1.5	1	4.1	7.1	6.9	7.5	2 *	2 *	13	<1/129L	0.77	0.5	1.4	
Jan-95	3.5	1.4	27	6.9	6.2	7.3	2 *	2 *	11		1.17	0.7	4.7	
Feb-95														

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Appendix 3. Santa Rosa Reclaimed Water Routine Constituents, mg/L except as noted. *after a constituent indicates that it was below the detection limit. The number shown is the detection limit. Bolded areas indicate months when plant not nitrifying.

Date	Fluoride (mg/L)	Sulfate (mg/L)	Surfactants (mg/L)	Conductivity		
				Avg	Min	Max
Jan-91						
Feb-91						
Mar-91						
Apr-91						
May-91						
Jun-91						
Jul-91				702.5	570	800
Aug-91				721.3	700	810
Sep-91				654.4	400	750
Oct-91				697.7	500	810
Nov-91						
Dec-91				737.7	670	806
Jan-92				759.6	714	814
Feb-92				662.3	320	825
Mar-92				692.4	595	788
Apr-92				740	635	811
May-92				762.3	703	819
Jun-92				764.7	701	826
Jul-92				777.4	705	832
Aug-92				748	693	793
Sep-92				746.3	692	824
Oct-92				775.8	714	888
Nov-92				777.7	704	888
Dec-92				733.1	650	834
Jan-93				610.4	525	759
Feb-93				661	566	737
Mar-93				713.2	646	756
Apr-93				807.9	688	1015
May-93						
Jun-93						
Jul-93				807.8	751	852
Aug-93				765.3	721	801
Sep-93				752.1	723	801
Oct-93				741.1	689	795
Oct-93	0.2	38	0.08			
Nov-93				755.3	703	847
Dec-93				698.1	604	759
Jan-94				713.6	598	792
Feb-94				644.6	575	738
Mar-94				743.3	704	776
Apr-94				754.1	704	824
May-94				740.6	706	789
Jun-94				793.6	678	911
Jul-94				742.1	703	793
Aug-94				727.4	678	778
Sep-94				723	686	752
Oct-94				642.5		768
Nov-94				686.3	616	782
Dec-94				681.6	621	724
Jan-95				608.8	560	648
Feb-95						

Appendix 4. Delta Pond Ammonia and Organic Nitrogen. * after a constituent indicates that it was below the detection limit. For purposes of calculating averages, the number shown is half the detection limit.

Date	Ammonia mg-N/L	Organic Nitrogen mg-N/L
9-Jan-91	1.6	
16-Jan-91	1.7	
6-Feb-91	0.8	
13-Feb-91	0.8	
6-Mar-91	2	
27-Mar-91	1.3	
10-Apr-91	0.8	
17-Apr-91	0.2	
24-Apr-91	0.2	
4-Dec-91	0.1	
11-Dec-91	0.1	
18-Dec-91	0.1	
26-Dec-91	0.2	
1-Apr-92	0.2	
8-Apr-92	0.5	
15-Apr-92	0.6	
22-Apr-92	0.2	
13-May-92	0.5	
7-Dec-92	0.5	
9-Dec-92	0.5	
23-Dec-92	0.5	
6-Jan-93	5.7	
17-Feb-93	0.7	
10-Mar-93	0.1	
6-Apr-93	0.3	
14-May-93	2.8	
8-Dec-93	3.6	
29-Dec-93	3.4	
5-Jan-94	2.6	
13-Jan-94	3.3	
19-Jan-94	3.6	
26-Jan-94	2.6	
2-Feb-94	3	
9-Feb-94	0.1	
16-Feb-94	0.1	
23-Feb-94	0.1	
2-Mar-94	0.4	
30-Mar-94	0.1	
18-Apr-94	0.3	
7-Sep-94	0.4	
14-Sep-94	0.5	
21-Sep-94	0.5	
28-Sep-94	1.8	
5-Oct-94	0.1	
2-Nov-94	1.8	
9-Nov-94	0.9	

Appendix 4. Delta Pond Ammonia and Organic Nitrogen. * after a constituent indicates that it was below the detection limit. For purposes of calculating averages, the number shown is half the detection limit.

16-Nov-94	0.4	
23-Nov-94	0.2	
30-Nov-94	0.4	
7-Dec-94	0.7	
7-Dec-94	0.1	
14-Dec-94	2	
4-Jan-95	0.05 *	
18-Jan-95	0.5	
25-Jan-95	1.8	
1-Feb-95	2.1	
8-Feb-95	1.8	
15-Feb-95	0.4	
1-Mar-95	0.1	
4-Apr-95	0.2	
20-Dec-95	1	1.8
26-Dec-95	1.5	1.1
27-Dec-95	1.3	1.4
3-Jan-96	1.1	1.4
10-Jan-96	0.6	0.7
17-Jan-96	0.1	1.1
24-Jan-96	0.1	1.1
31-Jan-96	0.3	1.6
14-Feb-96	1	1
21-Feb-96	0.1	1.1
28-Feb-96	0.1	1.5
average	0.99	1.25
number	71.00	11.00
minimum	0.05	0.7
maximum	5.7	1.8

Constituent	Units	Composite Effluent				Method
		27-Oct-94	8-Nov-94	30-Nov-94	14-Dec-94	
Inorganics						
Asbestos	(MFL)	0.0481 *	0.28 *	0.56	0.28	ML/EPA100.1
Cyanide	mg/l	0.005 *	0.006	0.006	0.006	EPA/SM 335.3
Fluoride	mg/l	0.31	0.19	0.18	0.19	ML/EPA340.2
Nitrate-N by IC	mg/l	measured in effluent routine monitoring				ML/EPA 300
Nitrite, Nitrogen by IC	mg/l	measured in effluent routine monitoring				ML/EPA 300.0
Silica	mg/l	34	36	36		
Total Dissolved Solids	mg/l	500	370	430	390	
Organics						
1,1,1,2-Tetrachloroethane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,1,1-Trichloroethane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,1,2,2-Tetrachloroethane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,1,2-Trichloroethane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,1-Dichloroethane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,1-Dichloroethylene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,1-Dichloropropene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,2,3-Trichlorobenzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,2,3-Trichloropropane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,2,4-Trichlorobenzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,2,4-Trimethylbenzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,2-Dichloroethane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,2-Dichloropropane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,3,5-Trimethylbenzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
1,3-Dichloropropane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
2,2-Dichloropropane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
2,3,7,8 - Dioxin	Picograms	Measured in effluent routine monitoring				1613
2,4,5-T	ug/l	0.2 *	0.2 *	0.2 *	0.2 *	ML/EPA 515.1
2,4,5-TP (Silvex)	ug/l	0.2 *	0.2 *	0.2 *	0.2 *	ML/EPA 515.1
2,4-D	ug/l	0.1 *	0.1 *	0.1 *	0.1 *	ML/EPA 515.1
2,4-DB	ug/l	2 *	2 *	2 *	2 *	ML/EPA 515.1
2-Butanone (MEK)	ug/l	5 *	5 *	5 *	5 *	ML/EPA 524.2
2-Chloroethylvinylether	ug/l	1 *	1 *	1 *	1 *	ML/SW 8240
3,5-Dichlorobenzoic acid	ug/l	0.6 *	0.6 *	0.6 *	0.6 *	ML/EPA 515.1
3-Hydroxycarbofuran	ug/l	2 *	2 *	2 *	2 *	ML/EPA 531.1
4-Methyl-2-Pentanone (MIBK)	ug/l	5 *	5 *	5 *	5 *	ML/EPA 524.2
4-Nitrophenol (qualitative)	ug/l	5 *	5 *	5 *	5 *	ML/EPA 515.1
5-Hydroxydicamba	ug/l	0.2 *	0.2 *	0.2 *	0.2 *	ML/EPA 515.1
Acenaphthylene	ug/l	0.1 *	0.1 *	0.1 *	0.1 *	ML/EPA 525.1
Acifluorfen (qualitative)	ug/l	0.2 *	0.2 *	0.2 *	0.2 *	ML/EPA 515.1
Alachlor	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Alachlor (Alanex)	ug/l	0.055 *	0.05 *	0.05 *	0.05 *	ML/EPA 508
Aldicarb (Temik)	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 531.1
Aldicarb sulfone	ug/l	0.8 *	1.8	1.84	0.8 *	ML/EPA 531.1
Aldicarb sulfoxide	ug/l	1.93	0.5 *	0.5 *	0.8	ML/EPA 531.1
Aldrin	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Aldrin	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
Alpha-BHC	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
alpha-Chlordane	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Anthracene	ug/l	0.02 *	0.02 *	0.02 *	0.02 *	ML/EPA 525.1
Atrazine	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Baygon	ug/l	2 *	2 *	2 *	2 *	ML/EPA 531.1
Bentazon	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 515.1
Benz(a)Anthracene	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Benzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Benzo(a)pyrene	ug/l	0.02 *	0.02 *	0.02 *	0.02 *	ML/EPA 525.1
Benzo(b)Fluoranthene	ug/l	0.02 *	0.02 *	0.02 *	0.02 *	ML/EPA 525.1
Benzo(g,h,i)Perylene	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Benzo(k)Fluoranthene	ug/l	0.02 *	0.02 *	0.02 *	0.02 *	ML/EPA 525.1
Beta-BHC	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
Bromacil	ug/l	2 *	2 *	2 *	2 *	ML/EPA 525.1
Bromobenzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Bromochloromethane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Bromodichloromethane	ug/l	0.6	0.7	1.1	1.4	ML/EPA 524.2
Bromoform	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2

Constituent	Units	Composite Effluent				Method
		27-Oct-94	8-Nov-94	30-Nov-94	14-Dec-94	
Bromomethane (Methyl Bromide)	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Butachlor	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Butylbenzylphthalate	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 525.1
Carbaryl	ug/l	2 *	2 *	2 *	2 *	ML/EPA 531.1
Carbofuran (Furadan)	ug/l	0.9 *	0.9 *	0.9 *	0.9 *	ML/EPA 531.1
Carbon Tetrachloride	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Chloramben (qualitative)	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 515.1
Chlordane	ug/l	0.11 *	0.1 *	0.1 *	0.1 *	ML/EPA 508
Chlorobenzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Chlorodibromomethane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Chloroethane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Chloroform (Trichloromethane)	ug/l	3.7	2.4	2.7	3.4	ML/EPA 524.2
Chloromethane (Methyl Chloride)	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Chlorthalonil (Drconil, Bravo)	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
Chrysene	ug/l	0.02 *	0.02 *	0.02 *	0.02 *	ML/EPA 525.1
cis-1,2-Dichloroethylene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
cis-1,3-Dichloropropene	ug/l	0.2 *	0.2 *	0.5 *	0.5 *	ML/EPA 524.2
Dalapon (qualitative)	ug/l	1 *	1 *	1 *	1 *	ML/EPA 515.1
DCPA	ug/l	0.2 *	0.31	0.2 *	0.31	ML/EPA 515.1
Delta-BHC	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
Di(2-Ethylhexyl)phthalate	ug/l	2.3	0.8	0.9	0.7	ML/EPA 525.1
Di-(2-Ethylhexyl)adipate	ug/l	0.6 *	0.6 *	0.6 *	0.6 *	ML/EPA 525.1
Di-n-Butylphthalate	ug/l	1.9	0.5 *	0.8	0.5 *	ML/EPA 525.1
Diazinon	ug/l	0.1 *	0.1 *	0.1 *	0.1 *	ML/EPA 525.1
Dibenz(a,h)Anthracene	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Dibromochloropropane (DBCP)	ug/l	0.01 *	0.01 *	0.01 *	0.01 *	ML/EPA 504
Dibromomethane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Dicamba	ug/l	0.2 *	0.2 *	0.2 *	0.2 *	ML/EPA 515.1
Dichlorodifluoromethane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Dichloromethane	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Dichloroprop	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 515.1
Dieldrin	ug/l	0.2 *	0.2 *	0.2 *	0.2 *	ML/EPA 525.1
Dieldrin	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
Diethylphthalate	ug/l	3.1	0.5 *	0.5 *	0.5 *	ML/EPA 525.1
Dimethoate	ug/l	10 *	10 *	10 *	10 *	ML/EPA 525.1
Dimethylphthalate	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 525.1
Dinoseb	ug/l	0.2 *	0.2 *	0.2 *	0.2 *	ML/EPA 515.1
Diquat	ug/l	0.4 *	0.4 *	0.4 *	0.4 *	EPA 549.1
Endosulfan I (alpha)	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
Endosulfan II (beta)	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
Endosulfan sulfate	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
Endothall	ug/l	5 *	5 *	5 *	5 *	ML/EPA 548.1
Endrin	ug/l	0.1 *	0.1 *	0.1 *	0.1 *	ML/EPA 525.1
Endrin	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
Endrin Aldehyde	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
Ethyl benzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Ethylene Dibromide (EDB)	ug/l	0.01 *	0.01 *	0.01 *	0.01 *	ML/EPA 504
Fluorene	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Fluorotrichloromethane(Freon1)	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
gamma-Chlordane	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Glyphosate	ug/l	6 *	6 *	6 *	6 *	ML/EPA 547
Heptachlor	ug/l	0.04 *	0.04 *	0.04 *	0.04 *	ML/EPA 525.1
Heptachlor	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
Heptachlor Epoxide	ug/l	0.02 *	0.02 *	0.02 *	0.02 *	ML/EPA 525.1
Heptachlor Epoxide	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
Hexachlorobenzene	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Hexachlorobutadiene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Hexachlorocyclopentadiene	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.2
Indeno(1,2,3,c,d)Pyrene	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Isophorone	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 525.1
Isopropylbenzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Lindane	ug/l	0.02 *	0.02 *	0.02 *	0.02 *	ML/EPA 525.1
Lindane (gamma-BHC)	ug/l	0.03	0.01 *	0.03	0.02	ML/EPA 508
m,p-Xylenes	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2

Constituent	Units	Composite Effluent				Method
		27-Oct-94	8-Nov-94	30-Nov-94	14-Dec-94	
m-Dichlorobenzene (1,3-DCB)	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Methiocarb	ug/l	2 *	2 *	2 *	2 *	ML/EPA 531.1
Methomyl	ug/l	2 *	2 *	2 *	2 *	ML/EPA 531.1
Methoxychlor	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Methoxychlor	ug/l	0.055 *	0.05 *	0.05 *	0.05 *	ML/EPA 508
Metolachlor	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Metribuzin	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Molinate	ug/l	0.2 *	0.2 *	0.2 *	0.02 *	ML/EPA 525.1
n-Butylbenzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
n-Propylbenzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Naphthalene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
o-Chlorotoluene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
o-Dichlorobenzene (1,2-DCB)	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
o-Xylene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Oxamyl (Vydate)	ug/l	2 *	2 *	2 *	2 *	ML/EPA 531.1
p,p' DDD	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
p,p' DDE	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
p,p' DDT	ug/l	0.011 *	0.01 *	0.01 *	0.01 *	ML/EPA 508
p-Chlorotoluene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
p-Dichlorobenzene (1,4-DCB)	ug/l	0.7 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
p-Isopropyltoluene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Paraquat	ug/l	2 *	2 *	2 *	2 *	EPA 549
PCB 1016 Aroclor	ug/l	0.11 *	0.1 *	0.1 *	0.1 *	ML/EPA 508
PCB 1221 Aroclor	ug/l	0.11 *	0.1 *	0.1 *	0.1 *	ML/EPA 508
PCB 1232 Aroclor	ug/l	0.11 *	0.1 *	0.1 *	0.1 *	ML/EPA 508
PCB 1242 Aroclor	ug/l	0.11 *	0.1 *	0.1 *	0.1 *	ML/EPA 508
PCB 1248 Aroclor	ug/l	0.11 *	0.1 *	0.1 *	0.1 *	ML/EPA 508
PCB 1254 Aroclor	ug/l	0.11 *	0.1 *	0.1 *	0.1 *	ML/EPA 508
PCB 1260 Aroclor	ug/l	0.11 *	0.1 *	0.1 *	0.1 *	ML/EPA 508
Pentachlorophenol	ug/l	1 *	1 *	1 *	1 *	ML/EPA 525.1
Pentachlorophenol	ug/l	0.04 *	0.04 *	0.04 *	0.04 *	ML/EPA 515.1
Phenanthrene	ug/l	0.02 *	0.02 *	0.02 *	0.02 *	ML/EPA 525.1
Picloram	ug/l	0.1 *	0.1 *	0.1 *	0.1 *	ML/EPA 515.1
Prometryn	mg/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 525.1
Propachlor	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Pyrene	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
sec-Butylbenzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Simazine	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Styrene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
tert-Butylbenzene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Tetrachloroethylene (PCE)	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Thiobencarb	ug/l	0.2 *	0.2 *	0.2 *	0.2 *	ML/EPA 525.1
Toluene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Toxaphene	ug/l	0.55 *	0.5 *	0.5 *	0.5 *	ML/EPA 508
trans-1,2-Dichloroethylene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
trans-1,3-Dichloropropene	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
trans-Nonachlor	ug/l	0.05 *	0.05 *	0.05 *	0.05 *	ML/EPA 525.1
Trichloroethylene (TCE)	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Trichlorotrifluoroethane (Freon)	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Trifluralin	ug/l	0.1 *	0.1 *	0.1 *	0.1 *	ML/EPA 525.1
Vinyl chloride (VC)	ug/l	0.5 *	0.5 *	0.5 *	0.5 *	ML/EPA 524.2
Radionuclides						
Alpha, Gross	pCi/l	0.7	-0.4	-0.5	2.9	ML/EPA 900.0
Alpha, Two Sigma Error	pCi/l	2.2	1.7	2	2.6	ML/EPA 900.0
Beta, Gross	pCi/l	10.1	10.1	10.9	10.6	ML/EPA 900.0
Beta, Two Sigma Error	pCi/l	1.8	2	1.8	2	ML/EPA 900.0
Metals						
Beryllium	mg/L	0.001 *	0.001 *	0.001 *	0.001 *	
Thallium, Total, ICAP/MS	mg/L	0.001 *	0.001 *	0.001 *	0.001 *	
Biology						
Giardia lamblia Cyst	#Cysts/# L	0/244	0/210	12/234	28/203	Delta Pond 30-Nov-94 7840 *
Cryptosporidium Oocyst	#Oocysts/# L	0/244	0/210		0/203	
Legionella Species	MPN/100 mL	7840 *	7840 *	7840 *	7840 *	

Constituent	Units	Composite Effluent				Method
		27-Oct-94	8-Nov-94	30-Nov-94	14-Dec-94	
Salmonella Species	MPN/100 mL	2.2 *	2.2 *	2.2 *	2.2 *	2.2 *
Shigella	MPN/100 mL	2.2 *	2.2 *	2.2 *	2.2 *	2.2 *
Heterotrophic Plate Count	CFU/ mL	8	21	20	18	3100
Total Coliform	MPN/100 mL	2 *	2 *	2	2 *	280
Enteric Virus	PFU# L	**	**	**	**	0/22
**enteric viruses are measured in the routine effluent monitoring program. See Appendix 3.						
TIC Search						8270
Compound						
Unknown						
Retention Time				13.61	12.46	
Estimated Concentration				5.8	5	
Unknown						
Retention Time				14.6	12.84	
Estimated Concentration				7	5	
Unknown						
Retention Time				16.57	13.24	
Estimated Concentration				6.6	15	
Unknown						
Retention Time				19.41	13.36	
Estimated Concentration				8.5	5	
Tribromophenol						
Retention Time				23.64		
Estimated Concentration				16		
Organics analyzed as part of alkylphenol study						
Acenaphthene	ug/l			10 *	11 *	
Acenaphthylene	ug/l			10 *	11 *	
Aldrin	ug/l			50 *	55 *	
Anthracene	ug/l			10 *	11 *	
Benzidine	ug/l			44 *	48.4 *	
Benzo(a)anthracene	ug/l			10 *	11 *	
Benzo(b)fluoranthene	ug/l			10 *	11 *	
Benzo(k)fluoranthene	ug/l			10 *	11 *	
Benzo(a)pyrene	ug/l			10 *	11 *	
Benzo(g,h,i)perylene	ug/l			10 *	11 *	
Benzoic acid	ug/l			50 *	55 *	
Benzyl alcohol	ug/l			10 *	11 *	
Butyl benzyl phthalate	ug/l			10 *	11 *	
delta-BHC	ug/l			50 *	55 *	
gamma-BHC	ug/l			50 *	55 *	
bis(2-Chloroethyl)ether	ug/l			10 *	11 *	
bis(2-Chloroethoxy)methane	ug/l			10 *	11 *	
bis(2-Chloroisopropyl)ether	ug/l			10 *	11 *	
bis(2-Ethylhexyl)phthalate	ug/l			10 *	11 *	
4-Bromophenyl phenyl ether	ug/l			10 *	11 *	
4-Chloroaniline	ug/l			10 *	11 *	
2-Chloronaphthalene	ug/l			10 *	11 *	
4-Chlorophenyl phenyl ether	ug/l			10 *	11 *	
Chrysene	ug/l			10 *	11 *	
4,4'-DDD	ug/l			50 *	55 *	
4,4'-DDE	ug/l			50 *	55 *	
4,4'-DDT	ug/l			50 *	55 *	
Dibenzo(a,h)anthracene	ug/l			10 *	11 *	
Dibenzofuran	ug/l			10 *	11 *	
Di-n-butylphthalate	ug/l			10 *	11 *	
1,2-Dichlorobenzene	ug/l			10 *	11 *	
1,3-Dichlorobenzene	ug/l			10 *	11 *	
1,4-Dichlorobenzene	ug/l			10 *	11 *	
3,3'-Dichlorobenzidine	ug/l			20 *	22 *	
Dieldrin	ug/l			50 *	55 *	
Diethylphthalate	ug/l			10 *	11 *	
Dimethyl phthalate	ug/l			10 *	11 *	
2,4-Dinitrotoluene	ug/l			10 *	11 *	
2,6-Dinitrotoluene	ug/l			10 *	11 *	
Di-n-octyl phthalate	ug/l			10 *	11 *	

Constituent	Units	Composite Effluent				Method
		27-Oct-94	8-Nov-94	30-Nov-94	14-Dec-94	
Endrin aldehyde	ug/l			50 *	55 *	
Fluoranthene	ug/l			10 *	11 *	
Fluorene	ug/l			10 *	11 *	
Heptachlor	ug/l			50 *	55 *	
Heptachlor epoxide	ug/l			50 *	55 *	
Hexachlorobenzene	ug/l			10 *	11 *	
Hexachlorobutadiene	ug/l			10 *	11 *	
Hexachlorocyclopentadiene	ug/l			10 *	11 *	
Hexachloroethane	ug/l			10 *	11 *	
Indeno(1,2,3-cd)pyrene	ug/l			10 *	11 *	
Isophorone	ug/l			10 *	11 *	
2-Methylnaphthalene	ug/l			10 *	11 *	
Naphthalene	ug/l			10 *	11 *	
2-Nitroaniline	ug/l			50 *	55 *	
3-Nitroaniline	ug/l			50 *	55 *	
4-Nitroaniline	ug/l			50 *	55 *	
Nitrobenzene	ug/l			10 *	11 *	
N-Nitroso-Di-N-propylamine	ug/l			10 *	11 *	
N-Nitrosodiphenylamine	ug/l			10 *	11 *	
Phenanthrene	ug/l			10 *	11 *	
Pyrene	ug/l			10 *	11 *	
1,2,4-Trichlorobenzene	ug/l			10 *	11 *	
ACID EXTRACTABLES						
4-Chloro-3-methylphenol	ug/l			10 *	11 *	
2-Chlorophenol	ug/l			10 *	11 *	
2,4-Dichlorophenol	ug/l			10 *	11 *	
2,4-Dimethylphenol	ug/l			10 *	11 *	
2,4-Dinitrophenol	ug/l			50 *	55 *	
4,6-Dinitro-2-methylphenol	ug/l			50 *	55 *	
2-Nitrophenol	ug/l			10 *	11 *	
4-Nitrophenol	ug/l			50 *	55 *	
Pentachlorophenol	ug/l			50 *	55 *	
Phenol	ug/l			10 *	11 *	
2,4,6-Trichlorophenol	ug/l			10 *	11 *	
2-Methylphenol	ug/l			10 *	11 *	
4-Methylphenol	ug/l			10 *	11 *	
2,4,5-Trichlorophenol	ug/l			50 *	55 *	

Appendix 6. Santa Rosa Reclaimed Water Special Study Phthalate and Cyanide, ug/L. *after a constituent indicates that it was below the detection limit. The number shown is the detection limit.

	Composite Reclaimed Water							
	6-Dec-95		13-Dec-95		20-Dec-95		3-Jan-96	
	sample	blank	sample	blank	sample	blank	sample	blank
di(2-ethylhexyl)phthalate	2 *	2 *	2 *	2 *	2 *	2 *	2 *	2 *
dimethylphthalate	2 *	2 *	2 *	2 *	2 *	2 *	2 *	2 *
diethyl phthalate	3.5	2 *	21	2 *	2 *	2 *	2 *	2 *
di-n-butylphthalate	2 *	2 *	2 *	2 *	2 *	2 *	2 *	2 *
butylbenzylphthalate	2 *	2 *	2 *	2 *	2 *	2 *	2 *	2 *
di-n-octylphthalate	2 *	2 *	2 *	2 *	2 *	2 *	2 *	2 *
weakly dissociable cyanide	16		15	5 *	15		21	

	Delta Pond Water				
	12/6/96	12/13/95		12/20/95	1/3/96
	sample	sample	blank	sample	sample
di(2-ethylhexyl)phthalate	2 *	2 *	2 *	2 *	2 *
dimethylphthalate	2 *	2 *	2 *	2 *	2 *
diethyl phthalate	4.1	6.6	3.8 *	2 *	2 *
di-n-butylphthalate	2 *	2 *	2 *	2 *	2 *
butylbenzylphthalate	2 *	2 *	2 *	2 *	2 *
di-n-octylphthalate	2 *	2 *	2 *	2 *	2 *
weakly dissociable cyanide	5 *	5 *	5 *	5 *	5 *