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Fate of Priority Pollutants in Publicly Owned Treatment Works

Final Report

Volume I

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Subsequent to the collection of data for this study, and the review of these data by each sampled facility, EPA solicited confidentiality statements from each plant regarding the data collected and plant identity. Although all facilities considered their data non-confidential, some plants requested that their identy be kept confidential. Therefore, to minimize the possibility of identifying these facilities, all plants contained in this study are consistently referred to by an assisned code number that is considered confidential by EPA.

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FATE OF PRIORITY TOXIC POLLUTANTS

IN

PUBLICLY OWNED TREATMENT WORKS

FINAL REPORT

VOLUME I

PREPARED FOR:

EFFLUENT GUIDELINES DIVISION

OFFICE OF WATER REGULATIONS AND STANDARDS

U.S. ENVIRONMENTAL PROTECTION AGENCY

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PREFACE

This document is being issued as the Final Report on a project initiated by the United States Environmental Protection Agency in 1978 to study the occurrence and fate of the 129 priority toxic pollutants in 40 Publicly Owned Treatment Works (POTW) and a supplemental study conducted at 10 additional POTW. This report consists of two volumes. Volume I contains the background and purpose of study, the POTW selection criteria, the sampling program details, the overall POTW data, evaluation of analytical results, and the preliminary conclusions of the study. Volume II contains the Daily Analytical Results which embody the basic data generated during the course of this study and which are the source for all other data compilations and analyses.

TABLE OF CONTENTS

VOLUME I

SECTION		PAGE
I.	SUMMARY, RESULTS AND CONCLUSIONS	1
	Summary	1
	Results and Conclusions	1
II.	INTRODUCTION	3
	Background	3
	Purpose	4
III.	POTW SELECTION AND DESCRIPTION	5
	Selection Criteria	5
	POTW Characteristics	7
IV.	DESCRIPTION OF FIELD SAMPLING PROGRAM	15
	Sampling Frequency	15
	Sampling Techniques	16
	Sample Points	17
V.	DATA ORGANIZATION AND INTERPRETATION	27
	Data Organization	27
	Laboratory Data Reporting Protocol	27
	Data Interpretation and Presentation	30
	Quality Assurance Program	31
VI.	EVALUATION AND DISCUSSION OF ANALYTICAL DATA	35
	Overview of Priority Pollutant Occurrence	35
	Summary of Influent Pollutant Concentrations	51
	Impact of Industrial Contribution on Influent Quality	51
	Treatment or Removal of Priority Pollutants in POTWs	56
	Reduction of Priority Pollutants by POTW Treatment Processes	58
	POTW Priority Pollutant Mass Balances	62
	Daily Variation of Influent Pollutant Concentrations	64
	Effect of Rainfall on Influent Concentrations	66
	Formation of Chlorinated Hydrocarbons	66
	Pollutants Detected in Sludges When Not Measured in the Influent	70
	Correlation of Influent and Effluent Concentrations	70
	Discussion of 10-Plant Study Results	73

TABLE OF CONTENTS (Continued)

SECTION		PAGE
APPENDIX A	Flow Diagrams - Plants 1 to 40 and 51 to 60	A-1 to A-52
APPENDIX B	Cumulative Distribution Curves of Effluent Concentrations and Percent Removals for the Twenty-four Most Frequently Found Priority Pollutants	B-1 to B-14
APPENDIX C	Summary of Analytical Data - Plants 1 to 40 and 51 to 60	C-1 to C-108
APPENDIX D	Percent Occurrence of Pollutant Parameters - Plants 1 to 40 and 51 to 60	D-1 to D-74
APPENDIX E	Mass Balance in Pounds Per Day Plants 1 to 40 and 51 to 60	E-1 to E-102

LIST OF TABLES

TABLE NO.	TITLE	PAGE
1	POTW Characteristics	8
2	Summary of Number of Samples Taken at Each Plant	18
3	Occurrence of Priority Pollutants in POTW Influents, POTWs 1 to 40	36
4	Occurrence of Priority Pollutants in POTW Effluents, POTWs 1 to 40	39
5	Occurrence of Priority Pollutants in POTW Raw Sludges, POTWs 1 to 40	41
6	Occurrence of Priority Pollutants in POTW Influents POTWs 51 to 60	45
7	Occurrence of Priority Pollutants in POTW Effluents POTWs 51 to 60	47
8	Occurrence of Priority Pollutants in POTW Raw Sludges POTWs 51 to 60	49
9	Summary of Selected Influent Pollutant Concentrations for POTWs 1 through 40	52
10	Summary of Minimum Percent Removals Achieved by Secondary Treatment	57
11	Median Removals of Selected Pollutants through POTW Treatment Processes	61
12	Mass Balance Summary	63
13	Daily Average Concentrations of Pollutants in POTW Influents	65
14	Effect of Rainfall on Influent Total Metal Loading	67
15	Effect of Rainfall on Influent Lead Loading	68
16	Formation of Chlorinated Hydrocarbons During Chlorine Disinfection	69
17	Occurrence of Priority Pollutants Detected in Sludges When Not Detected in the Influents	71

LIST OF TABLES (Continued)

TABLE NO.	TITLE	PAGE
18	Correlation of Influent and Effluent Concentration	72
19	Comparison of Influent and Secondary Effluent Pollutant Masses - POTW 51	75
20	Comparison of Influent, Secondary Effluent and Primary Industrial Effluent Pollutant Masses - POTW 52	76
21	Comparison of Influent and Secondary Effluent Pollutant Masses - POTW 53	78
22	Comparison of Influent, Secondary Effluent and Primary Industrial Effluent Pollutant Masses - POTW 54	80
23	Comparison of Influent, Secondary Effluent, Tertiary Effluent and Primary Industrial Effluent Pollutant Masses - POTW 55	81
24	Comparison of Influent, Primary Effluent and Tertiary Effluent Pollutant Masses - POTW 56	82
25	Comparison of Influent, Secondary Effluent and Primary Industrial Effluent Pollutant Masses - POTW 57	84
26	Comparison of Influent and Secondary Effluent Masses - POTW 58	85
27	Comparison of Influent and Secondary Effluent Pollutant Masses - POTW 59	86
28	Comparison of Influent, Primary Effluent, Secondary Effluent and Primary Industrial Effluent Pollutant Masses - POTW 60	87

LIST OF FIGURES

FIGURE NO.	TITLE	PAGE
1	Organization of the 50 POTW Computerized Data Base	28
2	Correlation of Influent Total Metals Concentration Versus Percent Industrial Flow	53
3	Correlation of Influent Total Volatiles Concentration Versus Percent Industrial Flow	54
4	Correlation of Influent Total Base Neutrals Concentration Versus Percent Industrial Flow	55
5	Cumulative Distribution Curves, Total Metals and Total Volatiles Effluent Concentration and Percent Removal	59
6	Cumulative Distribution Curves, Total Acids and Total Base Neutrals Effluent Concentration and Percent Removal	60

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I.

SUMMARY, RESULTS AND CONCLUSIONS

SUMMARY

In 1978, the United States Environmental Protection Agency (EPA) initiated a program to study the occurrence and fate of the 129 priority pollutants in 40 Publicly Owned Treatment Works (POTWs). The first phase of this work was a two-plant pilot study designed to set operating parameters for the remainder of the 40 POTW study. In October 1979, EPA's Effluent Guidelines Division (EGD) published a report summarizing the findings of the pilot study work, "Fate of Priority Pollutants in Publicly Owned Treatment Works-Pilot Study," EPA 440/1-79-300. Upon completion of half of the POTW project EGD published a report summarizing the findings for the first 20 POTWs, "Fate of Priority Pollutants in Publicly Owned Treatment Works-Interim Report," EPA 440/1-80-301.

In this final report, data from all 40 POTWs plus 10 supplemental POTWs sampled under a parallel project are presented. At most of these plants, a minimum of 6 days of 24-hour sampling of influent, effluent and sludge streams was completed. Each sample was analyzed for conventional, selected non-conventional, and priority pollutants.

Beyond presenting the occurrence and concentration of priority pollutants in the 40 POTWs (and 10 supplemental POTWs) other specific phenomena and relationships are evaluated in this report. These items include:

- Impact of industrial contribution on influent quality
- Treatment or removal of priority pollutants in POTWs
- Reduction of priority pollutants by individual POTW treatment processes
- POTW priority pollutant mass balances
- Daily variation of influent pollutant concentrations
- Effect of rainfall on priority pollutant levels in POTW influents
- Formation of chlorinated hydrocarbons through chlorine disinfection
- Quantification of pollutants found in sludges but not detected in POTW influents
- Correlation of influent and effluent priority pollutant levels.

RESULTS AND CONCLUSIONS

1. A total of 102 priority pollutants were detected, at least once, in POTW influents.

2. In general, the higher the industrial contribution to a POTW, the higher the concentration of priority pollutants in the POTW influents.

3. Based on the 40 POTW data base, 50 percent of secondary treatment plants achieved a minimum of 70 percent reduction of total priority pollutant metals, 82 percent reduction of total volatile priority pollutants, and 65 percent reduction of the total base neutral priority pollutants.

4. Tertiary treatment processes reduced priority pollutants slightly better than secondary processes. Primary treatment was less effective than either secondary or tertiary processes. Activated sludge, trickling filter, rotating biological contactor and pure oxygen activated sludge processes were approximately equally effective in reducing priority pollutant concentrations.

5. At plants where the metal priority pollutant mass balance was good, some organic priority pollutants in the influent were not always accounted for in the effluent or sludges. This indicates that, in general, a portion of the organic priority pollutants are biodegraded or, in the case of volatiles, stripped out of the wastewater.

6. The mass loading of priority pollutants in POTW influents was higher on weekdays than on weekends. This was true for the metals, volatiles and base neutral priority pollutants.

7. Heavy rainfall increased metallic priority pollutant mass loading at POTWs.

8. Certain priority pollutant chlorinated hydrocarbons increased slightly in concentration during chlorine disinfection.

9. Some pollutants not measured in POTW influents were regularly measured at high levels in the corresponding sludge streams.

10. For many conventional and priority pollutants, as influent concentrations increased effluent concentrations also increased. This implies that the removal rates for the priority pollutants are relatively constant and a fixed percentage of incremental loadings of these pollutants will be removed by secondary treatment.

II.

INTRODUCTION

BACKGROUND

Priority toxic pollutants enter navigable waters from a variety of point and non-point sources. Prior to the initiation of this project, only scattered data existed on the impact, occurrence, and removal of toxic pollutants in Publicly Owned Treatment Works (POTW). Very little was known about the quantity of toxic pollutants entering receiving streams from POTWs or the ability of POTWs to treat or remove toxic pollutants.

In 1978, the United States Environmental Protection Agency (EPA) initiated a project to systematically study the occurrence and fate of the 129 priority toxic pollutants in 40 POTWs. The scope of the overall project included an extensive sampling program for all priority pollutants and selected conventional/non-conventional pollutants to be conducted at 40 geographically distributed POTWs representing a variety of municipal treatment technologies, size ranges, and industrial flow contributions.

The initial phase of the 40 POTW project was a two-plant pilot study designed to establish operating parameters for the full study. During this pilot study, logistical factors for field sampling were tested to determine optimum sampling methodologies and an overall framework was established for studying the various aspects of POTW operations. The pilot study also served to establish the analytical protocols and field and laboratory Quality Assurance/Quality Control (QA/QC) procedures that would be used for the duration of the study and to determine the significance that industrial contribution should have on the POTW selection process.

During the course of the 40 POTW study, EPA decided to increase the number of POTWs in the data base to 50 by including 10 additional plants that were sampled under a separate program. Each of the latter 10 POTWs was characterized by one dominant industrial discharger that contributed all or most of the industrial flow. Sampling of these 10 POTWs mirrored the procedures, techniques, and sample points of the 40 POTW study. Moreover, the effluent from the dominant industry was also sampled at 5 of these 10 plants as part of this supplementary study.

In October 1979, EPA's Effluent Guidelines Division published a report summarizing the findings of the pilot study: "Fate of Priority Pollutants in Publicly Owned Treatment Works -Pilot Study," (EPA-440/1-79-300). Subsequently, at the midpoint of the study when sampling at 20 of the 40 POTWs was completed, an interim report was published by EPA (October 1980) that presented

the data from the first 20 cities, including a number of preliminary conclusions regarding the occurrence and fate of priority pollutants: "Fate of Priority Pollutants in Publicly Owned Treatment Works - Interim Report" (EPA-440/1-80-301).

This document is the final project report and presents the findings of the full 40 POTW study and also includes the findings of the sampling program at the 10 additional POTWs.

PURPOSE

The basic objective of this study is to generate, compile, and report data on the occurrence and fate of the 129 priority toxic pollutants in 50 POTWs. Preliminary evaluations of the data are also conducted. This report presents, therefore, all of the collected data, results of the preliminary evaluations, and results of calculations to determine:

1. The quantity of priority pollutants in the influent to the POTWs.

2. The quantity of priority pollutants discharged from the POTWs.

3. The quantity of priority pollutants in the effluent from intermediate process streams.

4. The quantity of priority pollutants in the POTW sludge streams.

Information presented in this report can be useful to the scientific community and the engineering profession at large, the industrial community, governmental bodies including regulatory agencies at the Federal, state, or local level, as well as the POTWs themselves. Depending on the intended use, the data base for this study has the potential to yield further interpretations or conclusions beyond those presented in this report.

III

POTW SELECTION AND DESCRIPTION

SELECTION CRITERIA

A major goal of this project was to obtain priority toxic pollutant data from representative types of secondary treatment facilities that will exist after completion of EPA's Construction Grants Program. Primary factors considered in selecting the POTWs included:

1. Treatment processes
2. POTW size
3. Amount of industrial contribution
4. Type of industrial contribution
5. POTW operating efficiency
6. Actual flow as a percent of design capacity
7. Geographical distribution.

The first 40 of the 50 POTWs included in this study are representative of the secondary treatment processes as reported in the 1978 EPA Needs Survey. POTW selection incorporated a geographical and type of treatment mix that approximately profiled all POTWs over 5 MGD nationwide. Since activated sludge and trickling filter plants are the most prevalent, the 40 POTWs are most heavily weighted with these types. The 40 POTWs included 26 activated sludge plants, 7 trickling filter plants, 5 dual activated sludge and parallel trickling filter plants, one aerated lagoon and one rotating biological contactor (RBC). The RBC plant was the only one of the 40 POTWs under 5 MGD, primarily because it was the most suitable RBC plant located with respect to all considered variables. POTWs from each EPA region are included in the 40 POTWs. The number of plants in each region is approximately proportional to the total number of POTWs over 5 MGD in that region. The 40 POTWs were distributed geographically as follows:

EPA Region	No. of POTWs
I	4
II	3
III	3
IV	6
V	9
VI	3
VII	3
VIII	3
IX	5
X	1

POTWs from 25 different states were included among the 40 plants. Within the 40 POTWs, modifications of the activated sludge process such as contact stabilization, Kraus, and pure oxygen are represented as well as some advanced waste treatment processes, notably tertiary mixed media filters and polishing ponds.

Although according to the Needs Survey, most POTWs are in the smaller size range, plant selection favored plants over 5 MGD. This is primarily due to three reasons. First, although there are relatively fewer large POTWs, the large plants treat the bulk of the nation's wastewater. Second, EPA's General Pretreatment Regulations (40 CFR 423) primarily affect all POTWs larger than 5 MGD. Third, for an intensive sampling program such as this, plants over 5 MGD also offer some logistical advantages. These plants are more likely to receive continuous flow over 24 hours, and often have more suitable sampling locations designed into the plant, as well as access to a greater number of sludge and sidestreams. POTWs of this size also tend to meter more of their plant flows and have better operational, laboratory and industrial flow records, which are necessary for subsequent analyses. Larger plants are more apt to have continuous staffing, which minimizes safety problems and provides some assurances against major plant equipment failures.

Actual POTW flow as a percent of design capacity was also an important selection criterion. POTWs operating well below capacity do not give a fair representation of priority toxic pollutant treatment or removal. Although a few of the selected POTWs operated at a low percentage of their indicated design capacity, these plants generally had a significant percentage of the treatment processes off-line during the week of sampling. For example, at POTW 2, only half of the primary treatment capacity was in use when the plant was sampled. Likewise, at POTW 8, only seven of ten primary and five of nine secondary clarifiers were in operation. At POTW 19, routinely, only 65 percent of the design capacity was on-line.

With regard to industrial flow, POTWs ranging from close to zero to more than 50 percent industrial contribution are included. Similarly, industries in most of the 34 industrial categories currently under review by the Effluent Guidelines Division are covered by the study. Two of the early POTWs selected had virtually no industrial flow, and both had relatively low concentrations of priority toxic pollutants. Consequently, for the remainder of the 40 POTW study, EPA decided to select POTWs that had a mixture of industries, and generally 10 percent to 50 percent industrial flow. POTW sizes were also varied from 5 MGD to 200 MGD, (with the exception of the RBC plant), but no attempt was made to profile the national distribution for POTW flows or industrial flow percentages.

Finally, although not all of the 40 plants always met the 30/30 BOD/TSS secondary treatment requirements, POTWs were only

selected if they were operating at or near the efficiency required to meet secondary treatment regulations. (Twenty-seven of the 40 plants had average effluent quality meeting the 30/30 requirement.)

In summary, the 40 POTWs were selected to present a variety of treatment plant operations, flows, and industrial contributions. They were not meant to be a statistically valid representation of all POTWs in the country, but rather to provide some information on the scope of priority toxic pollutant occurrence in municipal wastewater and on the fate of these pollutants in secondary treatment facilities.

The 10 supplemental POTWs were selected primarily to include a targeted industrial contributor, with secondary attention to all other selection criteria. All 10 POTWs were located on the east coast (EPA Regions II, III, IV and V) to minimize shipping and travel costs. One of the 40 POTWs (POTW 6) was resampled as part of the 10 POTWs because it had a large plastics product manufacturer contributing to the influent and the first sampling episode indicated exceptionally high volatile pollutant concentrations. The 10 supplemental POTWs ranged in size (average design flow) from 3 MGD to 42 MGD. Eight of these were activated sludge plants (one followed by advanced treatment), one was a trickling filter plant and one was a lagoon system followed by land application.

POTW CHARACTERISTICS

Flow diagrams for the 50 POTWs are presented in Appendix A with pertinent notes on any plant irregularities that affected sampling. Table 1 presents information on the basic characteristics of each POTW. Each of the 50 POTWs provided some form of secondary treatment, and nine plants further provided some advanced wastewater treatment (AWT). Table 1 indicates the average design flow and the historical influent flow for the secondary treatment system at each plant. This table also indicates the type of sewerage system and percent industrial flow to the plant as estimated by plant personnel. The percent industrial flow is not always consistently defined by wastewater treatment plants for the following reasons:

- Some plants had never surveyed their industries, while other POTWs had knowledge only of major industries. These plants could only estimate industrial flows from historical records or studies.

- Some POTWs included all commercial accounts in their industrial flow definition, some plants included only selected commercial users and some did not include any.

TABLE 1

POTW CHARACTERISTICS

	POTW 1	2	3	4	5	6	7	8	9	10
Biological Treatment Process	AS	AS	AS	AS	AS	AS	AS	AS/TF(1) + AWT	AS	AS/TF'
Secondary Design Flow, MGD	120	15	14	120	25	7.4	66	50	60	30/12
Avg. Daily Flow, MGD, (Historical Previous 12 Months)	105	8-10	10-11	80-85	26	7	50	20-25	45-50	20/8
Avg. Daily Flow, MGD(2) (Actual)	91.2	8.1	10.6	83.7	21.7(3)	7.1	48.6	22.8(4)	51.8	16.5/6.9
% Combined/ Separate Sewers	40/60	100/0	100/0	50/50	0/100	0/100	10/90	0/100	100/0	0/100
BOD, mg/l(5) Inf/Eff	201/13(6)	95/14	131/14	152/22	138/13	263/18	169/29	238/42	113/5	242/16(23)(7)
TSS, mg/l(5) Inf/Eff	139/20(6)	97/9	266/44	164/43	147/12	632/27	135/18	205/69	149/14	222/16(14)(7)
% Industrial Contribution	30	2(6)	10	18(6)	12(6)	35(6)	15	30.0(6)	7(6)	5
Major Industrial Contributors	Food & Kindred Products; Transportation Equipment; Electrical Products; Fabricated Metal Products; Primary Metals Industries; Chemicals & Allied Products	No Significant Industry	Food & Kindred Products; Textile Mill Products; Fabricated Metal Products; Electrical Products	Food & Kindred Products; Transportation Equipment	Transportation Equipment; Paper & Allied Products	Food & Kindred Products; Chemicals & Allied Products; Rubber & Plastic Products; Fabricated Metal Products	Fabricated Metal Products; Food & Kindred Products; Chemicals & Allied Products; Leather Products; Primary Metals Industries	Fabricated Metal Products	No Significant Industry	Fabricated Metal Products; Electrical Products

(1) Only AS plant was sampled.
(2) Actual recorded value through total treatment (secondary or tertiary) during sampling period.
(3) A portion of plant flow is bypassed after primary treatment.
(4) 2 MGD treated by trickling filter.
(5) For this study. Effluent values are secondary effluent.
(6) Denotes a change from the values in the Interim Report based on revised calculations, review, or new information provided by the POTW.
(7) Number in ( ) is trickling filter plant.

NOTE: AS - Activated Sludge
TF - Trickling Filter
AWT - Advanced Wastewater Treatment
AL - Aerated Lagoon
RBC - Rotating Biological Contactor
LA - Land Application

TABLE 1 (Continued)

POTW CHARACTERISTICS

	POTW 11	12	13	14	15	16	17	18	19	20
Biological Treatment Process	TF	AS	AS + AWT	AS	TF	TF + AS + AWT	TF/AS	AS	Pure O_2 AS	AS + AWT
Secondary Design Flow, MGD	45	45	24	20.6	7.5	150	16/22	100	120	143
Avg. Daily Flow, MGD, (Historical, Previous 12 Months)	41	39	17	13-14	5	140	5/10	82	70	100
Avg. Daily Flow, MGD(1) (Actual)	38.5	37.5	15.2	11.2	6.6	144.9	5.0/9.9	62.6	67.8	119.3
% Combined/ Separate Sewers	5/95	0/100	85/15	100/0	100/0	0/100	100/0	100/0	0/100	0/100
BOD, mg/l(2) Inf/Eff	99/27	105/10	69/15(3)	281/13	115/13	226(3)/11	194/13 TF 194/9 AS	208/37	379/45	247/21(3)
TSS, mg/l(2) Inf/Eff	171/14	178/14	150/13(3)	190/9	131/19	212/16(3)	129/9 TF 129/8 AS	268/21	187/29	421/13(3)
% Industrial Contribution	4(3)	50	35(3)	25	25	16	45(3)	10(3)	20	19
Major Industrial Contributors	Food & Kindred Products; Fabricated Metal Machinery	Fabricated Metal Products; Machinery; Food & Kindred Products; Rubber & Plastics Products; Primary Metals Industry; Transportation Equipment	Transportation Equipment; Primary Metals Industry; Fabricated Metal Products	Fabricated Metal Products; Electroplating; Plastics Products; Paint Manufacturing; Pharmaceutical Products; Food & Kindred Products	Fabricated Metal Products; Electroplating; Electrical Components; Machinery Manufacturing	Food & Kindred Products; Electrical Products	Fabricated Metal Products; Transportation Equipment; Primary Metals Industries; Electrical Products; Rubber & Plastics Products	Food & Kindred Products	Food & Kindred Products; Chemicals & Allied Products	Food & Kindred Products; Chemicals & Allied Products; Machinery; Electrical Products

(1) Actual recorded value through total treatment (secondary or tertiary) during sampling period.
(2) For this study. Effluent refers to secondary effluent.
(3) Denotes a change from the Interim Report based on revised calculations, review or new information provided by the POTW.

TABLE 1 (Continued)

POTW CHARACTERISTICS

	POTW 21	22	23	24	25	26	27	28	29	30
Biological Treatment Process	TF + AWT	AS + AWT	AL + AWT	TF	Pure O_2 AS + AWT	AS	AS/TF	PURE O_2 AS	TF	AS
Secondary Design Flow, MGD	55.0	15.0	27	6	60	200.0	60/140	120	8.5	24.0
Avg. Daily Flow, MGD, (Historical, Previous 12 Months)	25.0	11.0	20	5	45	180.0	50/135	85	7.8	20.0
Avg. Daily Flow, MGD(1) (Actual)	23.0	13.7	27.4	7.1	43.5	212.2	46/155	77.2	5.6	19.7
% Combined/ Separate Sewers	5/95	0/100	0/100	0/100	0/100	67/33	0/100	15/85	0/100	95/5
BOD, mg/l(2) Inf/Eff	238/59	245/39	130/26	275/13	329/8	108/17	173/15 AS 173/44 TF	523/20	187/63	308/23
TSS, mg/l(2) Inf/Eff	260/29	159/22	78/18	111/31	182/2	113/6	186/11 AS 186/36 TF	399/24	98/44	55/7
% Industrial Contribution	15	25	11	30	10	8	3	50	24	23
Major Industrial Contributors	Paper & Allied Products; Fabricated Metal Products; Electrical Products	Food & Kindred Products; Textile Mill Products; Chemicals & Allied Products; Primary Metals Industry; Machinery (Non-Electrical)	Food & Kindred Products; Textile Mill Products	Textile Mill Products; Machinery (Non-Electrical); Electrical Products;	Food & Kindred Products; Fabricated Metal Products	Primary Metals Industry; Electrical Products; Chemicals & Allied Products	Food & Kindred Products; Chemicals & Allied Products	Food & Kindred Products; Chemicals & Allied Products	Chemicals & Allied Products;	Chemicals & Allied Products; Textile Mill Products

(1) Actual recorded value through secondary treatment during sampling period.
(2) For this study. Effluent refers to secondary effluent.

TABLE 1 (Continued)

POTW CHARACTERISTICS

	POTW 31	32	33	34	35	36	37	38	39	40
Biological Treatment Process	AS	AS	RBC	AS	AS	AS	AS/TF	AS + AWT	TF	TF
Secondary Design Flow, MGD	53.0	16	5	30	26	40	46/20	37.5	15.5	8
Avg. Daily Flow, MGD, (Historical, Previous 12 Months)	28.0	9	2.0	15	19	42	55	21	11.0	7.0
Avg. Daily Flow, MGD(1) (Actual)	31.4	9.8	1.6	15.2	14.0	42.5	45.1/19.6	23.5	8.4	8.5
% Combined/ Separate Sewers	95/5	0/100	0/100	0/100	25/75	10/90	0/100	0/100	0/100	0/100
BOD, mg/l(2) Inf/Eff	144/12	149/12	120/9	264/4	222/42	435/87	303/25 AS 303/90 TF	292/19	323/32	236/55
TSS, mg/l(2) Inf/Eff	133/19	109/15	33/14	104/11	147/22	327/38	206/7 AS 206/22 TF	156/5	90/20	138/54
% Industrial Contribution	10	25	55	13	15	65	30	15	5	50
Major Industrial Contributors	Textile Mill Products & Allied Products; Food & Kindred Products; Electrical Products	Textile Mill Products; Rubber & Plastics Products; Machinery; Fabricated Metal Products	Rubber & Plastics Products; Fabricated Metal Products	Food & Kindred Products;	Food & Kindred Products; Machinery; Transportation Equipment	Food & Kindred Products; Textile Mill Products; Paper & Allied Products; Primary Metals Industries; Fabricated Metal Products	Food & Kindred Products; Fabricated Metals Industries; Electrical Products	Food & Kindred Products; Textile Mill Products; Chemicals & Allied Products; Petroleum Refining; Fabricated Metals Industries	Chemicals & Allied Products; Machinery	Food & Kindred Products; Textile Mill Products; Paper & Allied Products; Machinery

(1) Actual recorded value through secondary treatment during sampling period.
(2) For this study. Effluent refers to secondary effluent.

TABLE 1 (Continued)

POTW CHARACTERISTICS

	POTW 51[1]	52	53	54	55	56	57	58	59	60
Biological Treatment Process	AS	TF + AS	TF	AS	AL + LA[2]	AS + AWT	AS	AS	AS	AS
Secondary Design Flow, MGD	40.0	3.0	6.0	15.5	42.0	30.0	7.4	23.0	35.0	5.0
Avg. Daily Flow, MGD, (Historical, Previous 12 Months)	46.0	2.0	5.0	10.0	29.0	17.0	6.1	18.0	27.0	3.5
Avg. Daily Flow, MGD[3] (Actual)	39.5	1.3	5.5	14.7	28.3	16.5	5.5	22.2	29.5	3.2
% Combined/ Separate Sewers	0/100	0/100	0/100	0/100	5/95	67/33	0/100	75/25	10/90	5/95
BOD, mg/l[4] Inf/Eff	299/4	145/43	177/2	137/6	162/8	94/15	257/12	93/16	159/7	557/17
TSS, mg/l[4] Inf/Eff	508/9	85/23	137/9	253/50	453/16	430/5	583/49	116/11	503/15	442/33
% Industrial Contribution	3	1	48	7	61	27	15[5]	35	18	26
Major Industrial Contributors	Chemicals & Allied Products; Fabricated Metal Products; Food & Kindred Products	Lumber & Wood Products	Textiles	Chemicals & Allied Products; Food & Kindred Products; Primary Metals	Paper & Allied Products; Chemicals & Allied Products	Primary Metals; Fabricated Metal Products; Electric Equipment; Transportation Equipment; Food & Kindred Products	Food & Kindred Products; Rubber - Plastics Products; Fabricated Metal Products	Electrical Equipment; Transportation Equipment; Paper & Allied Products; Fabricated Metal Products; Steel Manufacturing	Chemicals & Allied Products; Primary Metal Industries; Fabricated Metal Products; Machinery; Paper - Allied Products	Leather Products

(1) The supplemental 10 POTWs are designated as plants 51-60.
(2) Land Application.
(3) Actual recorded value through secondary treatment during sampling period.
(4) For this study. Effluent is tertiary effluent for plant 56 and secondary effluent for all other plants.
(5) Major tire manufacturer shutdown since first sampling episode (Plant 6).

- Several POTWs had implemented pretreatment programs, which may have affected the flows and organic loadings from their industrial users.

Following completion of the sampling phase of this study, EPA attempted to obtain a more detailed estimate of industrial flow contributions by calling each POTW and requesting a list of all contributing industries with their Standard Industrial Classification (SIC) codes. However, many of the same problems listed above were encountered. Consequently, Table 1 indicates the original POTW estimate of percent industrial flow, with the following exceptions:

- If the original estimate and the detailed survey were significantly different, the plant was called to resolve the discrepancy. The more accurate number was then used.

- At four POTWs (Nos. 2, 4, 5 and 9) where EPA had conducted separate in-depth studies of the POTWs, the industrial flow percentages from these studies were used. These, however, were all very close to estimates provided by plant personnel.

Table 1 also lists the types of industries that the POTWs indicated were significant contributors to their system.

IV

DESCRIPTION OF FIELD SAMPLING PROGRAM

SAMPLING FREQUENCY

A sampling period of six consecutive days, excluding Sundays, was selected for this study based on the findings of the two-plant pilot study as well as logistic factors. Consequently, for 35 of the 40 POTWs, six days of sampling were completed. At POTWs 3, 8, and 35, only four days of sampling were accomplished. For POTW 3, the shorter sampling period was planned to permit analytical capacity for three 8-hour influent composite samples per day. At POTWs 8 and 35, POTW operational problems necessitated shortening the sampling programs. For the pilot program at POTWs 1 and 2, seven continuous days of sampling were conducted. Further, at POTW 1, an additional seven days of influent samples were collected.

Generally, the 24 hour composite samples in this program were collected from 8 a.m. to 8 a.m., with grab samples for volatile organics (VOA), phenols, cyanide and oil and grease taken six times daily: at noon, 4:00 p.m., 8:00 p.m., midnight, 4:00 a.m. and 8:00 a.m. The six days of sampling normally excluded Sundays, from 8:00 a.m. Sunday to 8:00 a.m. Monday.

At four plants in the 40-plant program, however, sampling was performed on a Sunday for a variety of reasons. At POTWs 1 and 2, of course, seven consecutive days of sampling were performed. At POTW 9, sampling was started on Sunday to coordinate sampling periods with another EPA project occurring simultaneously in the same city. At POTW 27, sampling was initiated on a Sunday to complete the six day program before a holiday, which was judged no better for sampling than a Sunday.

A six-day sampling period was also used for the additional 10 POTWs included in this report. Those plants, designated POTWs 51 through 60, were each sampled on a six consecutive day schedule. Sunday samples were collected at POTWs 51, 54, 56, and 58.

The two POTWs in the pilot study (POTWs 1 and 2) were sampled for a longer period of time than those sampled afterward. This is because sampling at the pilot facilities was intended to determine the procedure best suited for obtaining the most representative samples from each treatment plant over the course of the entire 40-plant program. Thus, the sampling effort at the pilot plants focused on an appropriate sample frequency that represented the operation of the POTW, on which days yield the most representative samples, and on whether the final sampling plan could be limited to less than seven days of sampling per week.

Investigation of the appropriate sampling points to be used in the remainder of the 40-plant program was another focus of the pilot study. Samples were taken at different intermediate points in the wastewater treatment processes to ascertain which sampling points would provide the best information on the fate of priority pollutants as they pass through the POTW. At POTW 1, influent, effluent, and sludge streams were sampled over 24 hours for seven consecutive days. Three, eight-hour composite samples of the influent and a second week of 24-hour influent samples were collected. At POTW 2, seven consecutive days of 24-hour sampling were completed.

SAMPLING TECHNIQUES

Generally, uniform sampling techniques were used at the first 40 POTWs sampled in this study (POTWs 1-40). Sampling for the other 10 plants (POTWs 51-60), although administered under a separate program, encompassed only minor variations in the techniques employed for the first 40 plants. The sampling techniques are described in detail in the Pilot Study report: "Fate of Priority Pollutants in Publicly Owned Treatment Works - Pilot Study" (EPA-440/1-79-300).

To obtain the most representative sample from each sample point, automatic samplers were used wherever possible to collect equal-sized sample aliquots. Flow proportional samples were not collected during this study. Automatic sampling was only possible where flows were continuous and accessible to the sampling equipment. At the early plants, automatic sampler tubing was changed daily and sampler blanks were run before beginning each day's new composite. Later in the program (after POTW 5), under a revised QA/QC program, this procedure was discontinued, with fresh Teflon tubing being used only when a sampler was set up at a new collection point. The automatic samplers were calibrated to pull sample aliquots of at least 100 ml at time intervals not to exceed 30 minutes. Composites in the automatic samplers were collected in 2.5 or 5.0 gallon glass jars that were kept in an ice bath at 4°C for the entire 24-hour period of sampling.

In cases where wastewater or sludge flows were intermittent or not pumpable, such as primary sludge, grab samples were collected. Grab samples were also taken where prescribed by EPA's sampling protocol. Grabs were collected at least six times a day and often more frequently.

On occasion, as dictated by sample point configuration, samples were grabbed via an intermediate vessel. This method of sampling is a modification to the protocol for fractions such as oil and grease and volatile organics where the sample container is supposed to be filled directly from the wastewater stream. This modification was made at a few sample points for safety and prac-

tical reasons since positioning of the sample container in most of these waste streams was either impossible or very dangerous, and the error introduced through use of an intermediate beaker was of lesser consequence. In all cases where an intermediate beaker was used, it was used exclusively at one point for the duration of sampling at the plant; it was repeatedly purged with fresh sample before each sample was collected.

SAMPLE POINTS

Sample points were selected so that the influent, effluent, and sludge priority toxic pollutant concentrations could be determined, which, when combined with flow data, provided priority toxic pollutant mass balances through the POTWs. Other sample points were selected to best characterize wastewater and sludges at particular stages of treatment. At each plant, an effort was made to select sample points that allowed sample collection before contamination from other waste streams, recycle flows, or chemical additions.

Table 2 lists all samples taken during the study (POTWs 1 to 40 and 51 to 60). Additionally, the plant flow diagrams in Appendix A provide the location of all sample points. In the following paragraphs, each sample point is briefly described and exceptions are noted.

Tap Water

Background samples of the domestic water as supplied to the plants' service areas were taken at 28 of the 50 plants sampled during this study. Samples were taken at a frequently used sink within the plant premises. The tap water was allowed to run for a period of time prior to sample collection. At POTW 21, a manual composite of two points (off POTW premises) was taken to obtain a representative sample of the municipal supply during the sample period.

Influent (Total)

Generally, total influent samples were collected prior to pre-aeration, grit removal, or recycle streams such as digester supernatant. To avoid potential automatic sampler tube fouling, influent samples were collected downstream of bar screens. When access to the influent was such that representative samples could not be taken via automatic sampling, grab composite aliquots were collected every two hours. When a total influent sample was not accessible, upstream samples of separate flows were taken and manually composited to create a total influent sample.

TABLE 2

SUMMARY OF NUMBER OF SAMPLES TAKEN AT EACH POTW
POTWs 1 THROUGH 20

SAMPLE POINT	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Combination of Sources										2										
Combined Sludge (Both Thickened)			4														6			
Combined Sludge (Digested)				6	6	6														
Combined Sludge (Heat Treated)							6	4												
Combined Sludge (Other)																6				
Combined Sludge (Untreated)	7						6													
Combined Sludge - Raw from Primary				6	6					4	6			6	3	6				
Combined Sludge - Sec. Thickened		7						4												
Digester Supernatent																				
Floatables	7																			
Gravity Thickener Overflow			1																	
Heat Treatment Decant							6	4												
Influent (Other)														6	6	6				
Influent (Total)	28	7	11	6	6	6	6	4	6	6	6	6	6	6	6	6	6	6	6	6
Nitrification Sludge																				2
Other Recycle Line																				
Other Source																				
Primary Effluent												6							6	
Primary Sludge (Digested)										6										
Primary Sludge (Other)																				
Primary Sludge (Raw)	7					6		3	6			6	6		1		6		6	6
Primary Sludge (Thickened)			3															6		
Secondary Effluent (Chlorinated)	7	7	4	6	6	6		4	6	6	6	6		6	3		6			
Secondary Effluent (Other)										6							6		6	
Secondary Effluent (Unchlorinated)	3	7	4				6			6	6		6		3			6	6	6
Secondary Sludge (Humus)										4	6									
Secondary Sludge (Other)																				
Tap Water	1	1	1											1	1	1	1	1	1	
Tertiary Effluent (Chlorinated)													6							6
Tertiary Effluent (Other)																6				
Tertiary Effluent (Unchlorinated)																6				
Vacuum Filter Filtrate	1																			
Waste Act. Sludge (Untreated)	7	1							6			6	6	6			6	6	6	6
Waste Act. Sludge-DAF Thickened		1																		
WAS (Other Thickened)										2										
POTW TOTALS	68	31	28	24	24	24	30	23	24	42	30	30	30	31	23	37	37	25	37	32

TABLE 2 (Continued)

SUMMARY OF NUMBER OF SAMPLES TAKEN AT EACH POTW
POTWs 21 THROUGH 40

SAMPLE POINT	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	TOTALS POTWs 1-40
Combination of Sources																					2
Combined Sludge (Both Thickened)																					10
Combined Sludge (Digested)										3											18
Combined Sludge (Heat Treated)																					13
Combined Sludge (Other)																					6
Combined Sludge (Untreated)																					13
Combined Sludge - Raw from Primary		6				6	6		6		6								6	6	79
Combined Sludge - Sec. Thickened																					11
Digester Supernatent													1	1		1					3
Floatables																					7
Gravity Thickener Overflow									1	1		1									4
Heat Treatment Decant																					10
Influent (Other)										6											24
Influent (Total)	6	6	6	6	6	6	6	6	6		6	6	6	6	4	6	6	6	6	6	258
Nitrification Sludge					2																4
Other Recycle Line						1														1	2
Other Source						1				6										1	8
Primary Effluent								6	6	6		6	6	6		6	6	6	5		71
Primary Sludge (Digested)																					6
Primary Sludge (Other)										6											6
Primary Sludge (Raw)	6		6	6	6			6		6		6	6	6	3	6	6	6			128
Primary Sludge (Thickened)																					9
Secondary Effluent (Chlorinated)				6		6		6	6	6	6	6	6	6		6			6	6	151
Secondary Effluent (Other)							6										6		5		35
Secondary Effluent (Unchlorinated)	6	6	6		6		6				6				4		6	6			111
Secondary Sludge (Humus)				6			6		6								6		2	2	38
Secondary Sludge (Other)			6										6								12
Tap Water	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	27
Tertiary Effluent (Chlorinated)	6	6	6		6																36
Tertiary Effluent (Other)																		6			12
Tertiary Effluent (Unchlorinated)					6																12
Vacuum Filter Filtrate						6						1				1					9
Waste Act. Sludge (Untreated)	6				6	6	6	6		3	6	5		6	4	6	6	6			128
Waste Act. Sludge-DAF Thickened																					1
WAS (Other Thickened)																					2
POTW TOTALS	31	25	31	25	39	33	37	31	32	44	31	32	32	32	16	33	42	36	31	23	1266

TABLE 2 (Continued)

SUMMARY OF NUMBER OF SAMPLES TAKEN AT EACH POTW
POTWs 51 THROUGH 60

SAMPLE POINT	51	52	53	54	55	56	57	58	59	60	TOTALS POTWs 51-60
Combination of Sources	6										6
Combined Sludge (Both Thickened)									6	4	10
Combined Sludge (Digested)							6				6
Combined Sludge (Heat Treated)										4	4
Combined Sludge (Untreated)						6					6
Gravity Thickener Overflow									6		6
Influent (Other)		2		6	2		2			6	18
Influent (Total)	6	6	6	6	6	6	6	6	6	6	60
Other Intermediate Effluent			6								6
Primary Effluent						6				6	12
Primary Sludge Raw	6	5	6	6			6	6			35
Secondary Effluent (Chlorinated)	6	6	6	6			6	6	6	6	48
Secondary Effluent (Unchlorinated)					6						6
Tap Water										1	1
Tertiary Effluent (Chlorinated)						6					6
Tertiary Effluent (Other)					6						6
Waste Act. Sludge (Untreated)	6		6	6		6					24
WAS (Other Thickened)								6			6
POTW TOTALS	30	19	30	30	20	30	26	24	24	33	266

Influent (Other)

At nine of the plants in this study, additional influent points were sampled. At POTW 14, an additional set of samples was taken at the City's second treatment plant (domestic sewage only). At POTW 15, an additional set of samples was taken of the industrial influent. POTW 16 had two treatment trains that were both sampled independently. POTW 30 had separate influent streams that did not combine until after primary treatment so separate influent samples were taken. At POTWs 52, 54, 55, 57, and 60, samples of the effluent from the plants major industrial discharger were also taken. The same criteria were used to choose the "Influent (Other)" points as were used to choose "Influent (Total)" points.

Floatables

At POTW 1, a complete set of samples of the skimmings from the primary clarifiers was taken. Manual composite samples were gathered by dipping into the floating layer at the location on the primary settling tanks where floatables are collected.

Primary Effluent

At 14 of the 50 POTWs, primary clarifier overflows, prior to secondary treatment, were sampled. In all instances, except POTW 39, automatic samplers were set up in the channel between primary and secondary treatment. The channels contained the well-mixed combined effluent flow from all primary tanks. At POTW 39, a portion of the primary effluent was discharged to infiltration/percolation (I/P) beds for limited periods each day. Grab samples of this influent to the I/P beds were taken.

Secondary Effluent (Unchlorinated)

At 21 of the 50 POTWs secondary effluent samples were collected prior to chlorine disinfection. This sample was collected either at the secondary clarifier overflow or in the channel leading to the chlorine contact chamber tank. In the majority of plants the next step in the treatment process was chlorine disinfection, but in some plants additional treatment prior to disinfection was practiced. At other plants, the unchlorinated effluent was the last accessible sampling point before final discharge. At POTW 15, the chlorination facilities were shut down in the middle of the sample week, resulting in 3 chlorinated and 3 unchlorinated samples.

Secondary Effluent (Chlorinated)

This sample point represents the effluent from the chlorine contact chamber prior to discharge to the receiving water. This type of sample was collected at 34 of the plants in this study.

Secondary Effluent (Other)

At six of the 50 plants sampled in this study, more than one secondary effluent point was sampled (excluding pre-and post-chlorination samples). At POTWs 10, 17, 27, and 37, both activated sludge and trickling filter effluents were sampled with the trickling filter effluent considered under this heading. The "Secondary Effluent (Other)" at POTW 19 was a dechlorinated effluent. POTW 39 had an infiltration/percolation (I/P) test facility that treated primary effluent. Effluent from these I/P beds was listed under this category.

Tertiary Effluent (Unchlorinated)

At POTWs 16 and 25, additional prechlorinated mixed media filter effluent samples were taken and analyzed for the organic priority toxic pollutants.

Tertiary Effluent (Chlorinated)

Four of the plants in this study which utilized mixed media filtration for tertiary treatment (POTWs 13, 21, 25, and 56) and three plants which utilized polishing ponds for tertiary treatment (POTWs 21, 22, and 23) were sampled after chlorine disinfection.

Tertiary Effluent (Other)

At POTW 16, mixed media filter effluent was combined with a portion of the trickling filter plant effluent and sampled after chlorination. One of the plants utilized a mixed media filter for tertiary treatment (POTW 38) but chlorinated the flow prior to the filter, and dechlorinated the effluent from the filter (12 hours/day). The final effluent from this plant is listed under this heading. POTW 55 utilized spray irrigation as a tertiary treatment. The effluent from the irrigated fields (underdrains) was sampled at this facility.

Gravity Thickener Overflow

At POTWs 3, 29, 30, and 32, the overflow from the gravity thickners was recycled to the head of the plant. Single grab samples were taken of this recycle stream at each plant.

At POTW 59, the thickener overflow returns to the head of the primary tanks. A full set of 6 samples of this flow was taken at this plant.

Heat Treatment Decant

At the two plants sampled that conditioned the sludge by heat treatment, decant or supernatant samples from the heat treatment sludge decant (thickening) tanks were manually composited. At POTW 7, these samples were taken from a sample tap on the side of the decant tank (gravity flow), while at POTW 8 the decant samples were grabbed from the sludge decant tank overflow weir.

Vacuum Filter Filtrate

Single grab samples of the filtrate from the vacuum filter at POTWs 1, 32, and 36 were obtained from the pressure lines on the filters. All fractions were filled as one grab sample via an intermediate vessel. At POTW 26, manual composites were taken each day of the six day sampling period directly from the vacuum filter pumps.

Digester Supernatant

At POTWs 33, 34 and 36, the supernatant from the digesters was recycled to the head of the plant. Single grab samples were taken of this recycle stream at each plant.

Other Intermediate Effluent

At POTW 53, a complete set (6 days) of samples was taken of the effluent from the trickling filter prior to the polishing ponds.

Other Recycle Line

At two of the POTWs, unique recycle lines flowed back into the head works of the plant. At POTW 26, an ash pit was decanted back to the headworks and at POTW 40, an aerobic digester supernatant flowed back into the influent wet well. Single grab samples were taken at each of these sample points.

Other Source

At POTW 26, a single grab sample was taken of the filter backwash that was recycled to the head of the grit chambers. At POTW 30, two separate influent samples had to be taken to represent the total influent flow. One was considered "Influent (Other)," and the other was characterized as "Other Source." At POTW 40, the drying bed underflow was sampled as a single grab sample to characterize this additional recycle line.

Primary Sludge (Raw)

At each plant an attempt was made to sample the primary sludge as it was removed from the primary clarifiers, before any further treatment. Composite samples of the sludge were always collected

by grab sampling techniques for two reasons: sludge consistency and lack of continuous availability. The majority of these samples were taken from taps either on the sludge pumps themselves or on the lines conveying the sludge to storage or further treatment. Occasionally, the sludge point would be in a rising well controlled by telescoping valves. The consistency of this sample varied depending upon the means utilized by the respective plants for drawing the sludge from the primary tanks. Samples were taken so as to attempt to represent the average sludge consistency. This involved collecting sludge grabs spaced over the sampling day, or individual aliquots for each grab sample spanning definite pumping periods. Primary sludge samples were collected at 29 of the 50 plants.

Primary Sludge (Digested)

At POTW 10, raw primary sludge was pumped directly to digesters, with no accessible intermediate taps or valves for sampling. Consequently, six samples of the digested primary sludge were taken. This sample was collected from a pump tap as a manual grab composite.

Primary Sludge (Thickened)

At two of the POTWs (Nos. 3 and 18), the raw primary sludge was not accessible, necessitating collection of primary sludge after gravity thickening. Sampling procedures and techniques for this point were the same as the sampling procedures for the raw primary sludge.

Primary Sludge (Other)

POTW 30 had separate treatment trains through primary treatment which yielded two primary sludges. Both were raw primary sludges with one listed as "raw" and the second one listed as "other."

Waste Activated Sludge (Untreated)

Waste activated sludge (WAS) sample points varied from plant to plant, depending on WAS stream accessibility. At some plants, WAS was accessible in rising wells prior to sludge conditioning. If the rising wells were sufficiently mixed, automatic samplers were used to gather WAS samples. At plants without rising wells, or when the well was not mixed, samples were taken from taps on the sludge pumps. Often, however, there were no accessible sampling points on the WAS line. In these cases, since WAS and return activated sludge are usually identical, samples were taken from the return sludge pumps or return sludge lines. The return sludge or waste activated sludge point was sampled at 27 of the 50 plants.

Waste Activated Sludge-DAF Thickened

At POTW 2, an additional sample of the waste activated sludge was taken after it had been conditioned in a dissolved air flotation (DAF) system. This was a single grab sample.

Secondary Sludge (Humus)

These samples represent all the trickling filter (humus) sludges taken for this 50 POTW study. When the sludge consistency would allow, and if the sample point was accessible and well mixed, the samples were gathered via an automatic sampler. For all other cases, the samples were manually composited.

Waste Activated Sludge (Other Thickened)

At POTW 10, two manually collected composite samples were taken of the waste activated sludge after centrifugation. The samples were taken from a tap on the pump conveying the thickened sludge to the digesters. At POTW 50, the unthickened waste activated sludge was not accessible, so a complete set (6 days) of samples was taken of the gravity thickened waste activated sludge.

Secondary Sludge (Other)

At POTW 23, the secondary sludge was taken from the secondary clarifiers after the aerated lagoons. At POTW 33, secondary sludge was taken from the secondary clarifiers after the rotating biological contactors.

Combined Sludge-Raw From Primary

Fourteen of the 50 POTWs recycle their secondary sludge directly back into the primary clarifiers and have access to the sludge as it leaves the primary tanks. At these plants, a combined sludge sample was taken in the same manner described for primary sludge. These samples were composited directly from the primary tanks prior to any sludge conditioning.

Combined Sludge-Secondary Thickened

At POTWs 2 and 8, the secondary sludge after DAF thickening was combined with unprocessed primary sludge for further processing. Samples of this combined sludge were taken by grab sampling techniques.

Nitrification Sludge

Two of the plants followed their activated sludge process with nitrification processes (POTWs 20 and 25). At these plants, two grab samples of the waste nitrification sludge were taken. These samples were taken directly from the waste sludge as single grab samples.

Combined Sludge (Untreated)

At POTW 1, a manual flow composite sample of both primary and waste activated sludges was taken and analyzed as a combined sample of the total sludge. At POTW 7, the separate sludge from the primary settling tanks was not accessible, so a sample of the primary sludge was taken after it was combined with the waste activated sludge prior to heat treatment.

At POTW 56, the waste activated sludge is returned to the aerated grit chamber, preventing sampling of the primary sludge alone. Since the sludge is not accessible when it is removed from the primary tanks, a sample of the combined sludge prior to heat treatment was taken.

Combined Sludge (Both Thickened)

At the four POTWs where sludge from the secondary clarifiers was not immediately accessible (Nos. 3, 17, 59, and 60), samples were taken after the sludge had been gravity thickened and combined with the thickened primary sludge.

Combined Sludge (Digested)

At POTWs 4, 5, 6, and 57, the combined sludge sample was taken after anaerobic digestion.

Combined Sludge (Heat Treated)

In an effort to explore the effects of the heat treatment process on priority pollutants, sludge samples from the heat treatment systems at POTWs 7, 8, 30, and 60 were taken.

Combined Sludge (Other)

At POTW 16, which has two parallel treatment trains, two separate primary clarifier sludges were sampled. At this particular plant, the primary tank sludges included the waste secondary sludges because these sludges were recycled to the head of the primary systems. One trickling filter combined sludge was categorized under this heading, whereas, the combined sludge from the parallel plant was categorized as "Combined Sludge - Raw from Primary."

Combination of Sources

At POTW 10, two manual composite samples of the aerobic digester feed were taken. The sample was a combination of the thickened waste activated sludge and the floatables. Manual samples were taken at this point from a tap on the sludge feed pump.

V

DATA ORGANIZATION AND INTERPRETATION

DATA ORGANIZATION

All analytical data developed during the 50 POTW study were stored on computer using the RAMIS II (Rapid Access Management Information System, Release 2.1.0) Data Base Management System (DBMS). A description of the data elements computerized and their approximate organization is presented in Figure 1. The use of a DBMS provided significant cost savings in data storage and retrieval and increased flexibility in programming all output tables and files. Where statistical evaluations were required for data analyses, the University of California, Los Angeles BMDP Biomedical Computer Programs (P-Series, 1979) were utilized.

The overall data base generated during the course of this study is derived from a total of 1532 individual water, wastewater, sludge and tap water samples that were collected at the 50 POTWs and analyzed for conventional, non-conventional and the 129 priority toxic pollutants. A significant number of blank samples, duplicate samples and spiked samples were also analyzed for QA/QC purposes.

LABORATORY DATA REPORTING PROTOCOL

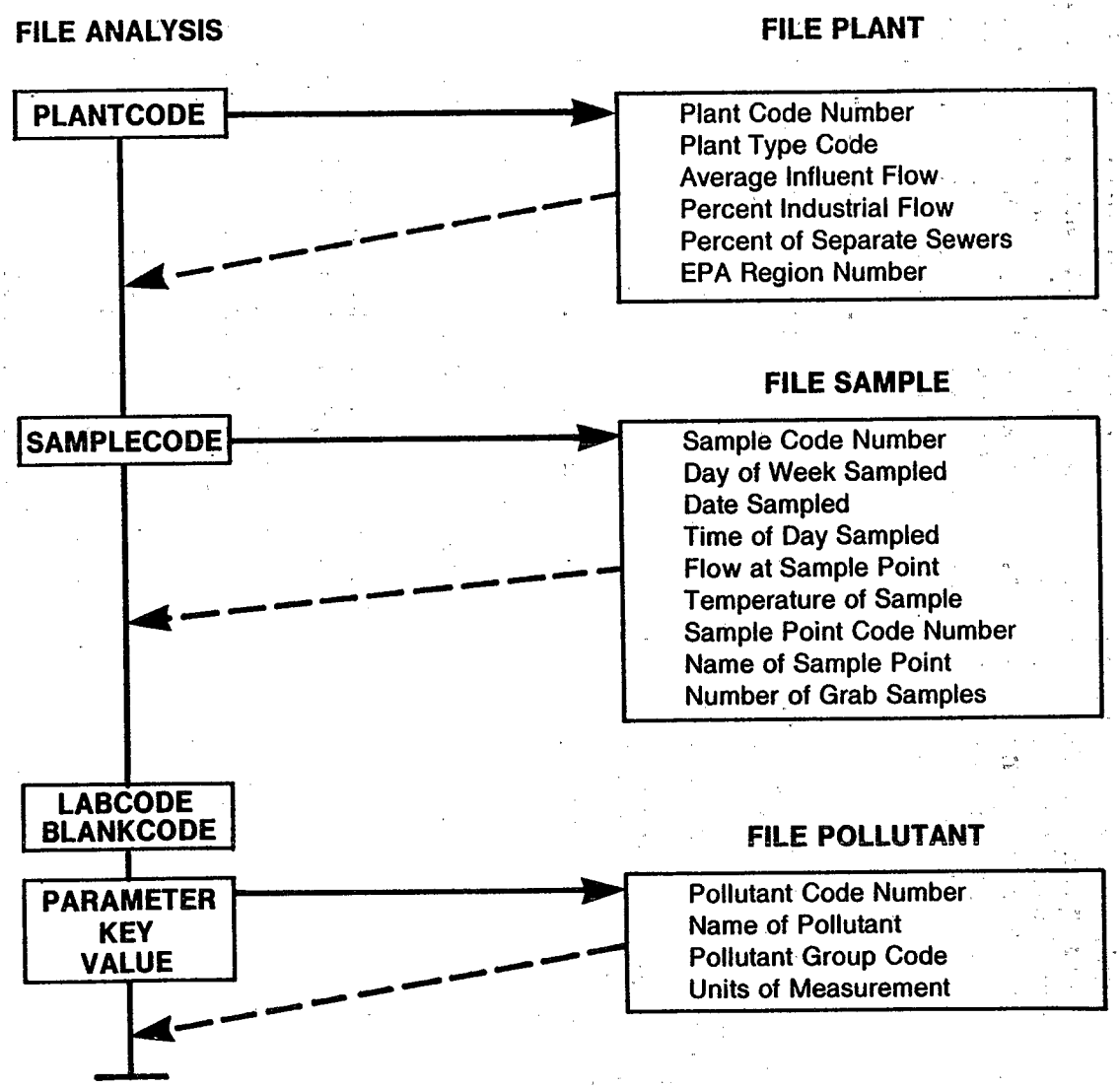
The 50 POTW sampling program spanned approximately 2-1/2 years and analyses were conducted by several different laboratories. Consequently, to assure maximum consistency, most of the laboratories calibrated their equipment against a standard "cocktail" of known priority pollutant concentrations which were prepared by EPA. However, there were some minor variations in reporting formats used by the various laboratories. Most notably:

1. The EPA Region 7 laboratory reported each pollutant in each wastewater sample as its measured concentration, as less than a specific reported detection limit (LT value), or as below the detection limit with a trace (unquantified) amount detected.

2. Several EPA contract laboratories reported each pollutant in each sample as either a measured concentration, or as "Not-Detected."

3. Several EPA contract laboratories reported each pollutant in each sample as either a measured concentration or as less than an average detection limit for that pollutant. Commonly reported detection limits for organic priority pollutants were 5 ug/1 and 10 ug/1.

FIGURE 1
ORGANIZATION OF THE 50 POTW COMPUTERIZED DATA BASE



4. Two EPA contract laboratories that performed sludge analyses reported each pollutant for each sample as present at a measured concentration, as "Not-Detected," or as not run because of analytical interferences.

5. One EPA contract laboratory, which analyzed the pilot study samples, reported each pollutant for each sample as a measured concentration, as "Not-Detected" or as detected, but less than a reported detection limit (LT value). This last condition was not usable by the computer programs for the subsequent data base analyses, since it was indistinguishable from the reporting format from Region 7, where the "LT value" had a different meaning. Consequently, the "LT values" for this laboratory were made consistent with the Region 7 definition by assuming a concentration of half the detection limit. For example, a reported analysis of "Detected at less than 10 ug/l" was entered on the data base as 5 ug/l. The original values have also been maintained on the computer.

In order to conveniently handle all of the reporting formats on the computerized data base, every analytical result was entered with a "key" code, used in conjunction with the data value. The codes and combinations used and their meanings are as follows:

CODE	DATA VALUE	MEANING
0	any	Detected, at the concentration listed
1	any	Less than the concentration listed
2	any	Detected at greater than the concentration listed
3	any	Detected, but not quantified at lower than the concentration listed
4	0	An analytical interference prevented the determination of the presence or quantification of the pollutant
4	> 0	An analytical interference was present, but the concentration is estimated as reported
5	any	An analytical interference was present, but the pollutant was not detected above the concentration listed
6	0	No analysis was run or reported
7	0	Reported as "Not-Detected"

CODE	DATA VALUE	MEANING
8	0	The compound was detected, but could not be quantified
8	> 0	A pesticide was detected by GC-EC at the concentration listed, but GC-MS did not confirm the presence of this pollutant.

DATA INTERPRETATION AND PRESENTATION

In presenting the overall POTW data, four different formats are utilized in this report; namely, the Daily Tables, the Summary of Analytical Data Tables, the Mass Balance Tables and the Summary of Percent Occurrence Tables. A brief discussion of each of these formats follows.

Daily Tables

A Daily Table was selected as the basic format to report the analytical results corresponding to each day of sampling at a POTW. The Daily Tables were compiled by assembling the analytical data on the pollutant parameters reported by the various laboratories for each day of sampling for all sample points at each of the 50 POTWs. Accordingly, the Daily Tables embody the basic data on the conventional, non-conventional and priority pollutants in the wastewaters and the sludge streams of the POTWs. Due to the extensive amount of data obtained, the Daily Tables for each of the 50 POTWs are presented in Volume II of this report.

Summary of Analytical Data Tables

These tables present the averages of each pollutant parameter found at each sample point of a POTW over the duration of its sample period. These tables are derived from the Daily Tables by averaging over the total number of days in the sampling period for a particular plant. The Summary of Analytical Data Tables for each of the 50 POTWs are presented in Appendix C of this Volume.

Percent Occurrence Tables

These tables present the percent of times each pollutant was found at each sampling point at each plant. In all cases where pollutant concentrations were reported by the laboratories in terms of "not detected" (ND) or "less than the detection limit" (L), it was assumed in the calculation of occurrence percentage that the pollutant did not occur in the analyzed sample. Percent Occurrence Tables for each of the 50 POTWs are presented in Appendix D of this Volume, and are summarized for the 40 and 10 POTW data bases in Section VI.

Mass Balance Tables

The Mass Balance Table for a POTW shows the average pounds per day of each pollutant entering the POTW, as well as the daily pounds of that pollutant exiting the POTW. Mass Balance Tables are derived from the Summary of Analytical Data Tables and the appropriate flow quantities for the wastewater and sludge streams. In some cases samples could not be obtained from all recycle lines that would be necessary to obtain an exact mass balance. Mass Balance Tables based on the major wastewater and sludge streams for all 50 POTWs are presented in Appendix E of this Volume.

QUALITY ASSURANCE PROGRAM

As part of an agreement among the Office of Water Regulations and Standards, Effluent Guidelines Division, EPA's Region VII Laboratory and other contract laboratories, a Quality Assurance Program was designed and executed to provide estimates of data quality for priority toxic pollutant analyses performed by the various laboratories. An interim and final report have each been prepared. For the sludge and water samples, QA/QC results are summarized in the following paragraphs. However, analytical results reported by the laboratories and utilized in this study have not been adjusted for any QA/QC findings.

QA/QC activities in the field consisted primarily of collecting duplicate and blank samples. In general, during each sampling episode the field crew collected the following QA/QC samples:

- One duplicate sample at each sample point;
- One sampler blank for all wastewater sample points at each POTW;
- One sampler (or field) blank for each sludge sampling point;
- Trip (or VOA) blanks for one wastewater sample point, filled in the field; and
- Trip (or VOA) blanks for each sludge sampling point, filled in the field.

A sampler blank consists of ultrapure deionized water pumped through automatic samplers and associated tubing and analyzed for priority toxic pollutant acid, base/neutral and pesticide parameters. Where an automatic sampler was not used, this blank (often called a field blank) consists of filling a sample container with ultrapure water at the field site and analyzing for the same parameters. VOA (or trip) blanks consist of filling VOA vials with the ultrapure water, exposing them to the environment at the treatment plant and sealing them air tight with no entrapped air.

These samples were analyzed for the volatile priority pollutant fraction.

The purpose of the blanks was to identify field and analytical contamination such as methylene chloride (a solvent used extensively both during bottle preparation and laboratory analysis) or phthalate ethers (which may be associated with the sample tubing). The analysis of blanks is critical, especially when the purge-trap technique (which is susceptible to contamination by residues from concentrated samples or vapors in the laboratory) is employed. Sporadic occurrences of methylene chloride were identified in several of the VOA blank samples. Thus in reviewing the methylene chloride results, it should be kept in mind that methylene chloride results which deviate significantly from the mean may in fact be the result of field and/or laboratory contamination. No other pollutants were identified repeatedly or in high concentration in the blank water samples.

The precision of the analytical results can be expressed by the standard deviation of the results of multiple duplicate or spike analyses for a selected pollutant. The precision of the analytical results refers to the ability to reproduce the same results, regardless of whether the results are true values or the results of systematic analytical errors. In summary, the lower the standard deviation the higher the analytical precision.

Accuracy, on the other hand, is a measure of the correctness of the analytical results in comparison to the actual amount of the analyte present. Known quantities of priority pollutants and/or surrogate spikes (compounds with identical chemical structures as that of a given pollutant except that the surrogate has a unique aspect which is more readily identifiable) were added to both wastewater samples and blank samples. Wastewater spike data constitute matrix spike results; blank spike results are referred to as method spike results. The percent recovery is a measure of the analytical accuracy for the respective parameters. As previously indicated, the standard deviation of the percent recovery is a measure of the parameter analytical precision. The discussion below presents an analysis of the QA/QC data for the wastewater and sludge samples.

Regarding the wastewater samples, the results of the QA/QC program indicated some variation between the various laboratories used. For the acid fractions, the mean recovery rates at the different laboratories ranged from 63 percent to 100 percent, and for base-neutrals the range was from 48 percent to 74 percent. For the volatile organic fraction, the mean recoveries ranged from 57 percent to 100 percent. The EPA Region VII laboratory, which handled the majority of wastewater samples for this study, had mean recoveries of 71 percent for acids with a standard deviation of 28 percent, 73 percent for base neutrals (38 percent standard deviation), 81 percent for pesticides (36 percent stan-

dard deviation) and 100 percent for volatiles (17 percent standard deviation).

Metal priority pollutants had the most consistent recovery rates, especially at concentrations above 25 ug/l. For the priority pollutant metals (excluding asbestos and cyanide), recoveries ranged between 83.9 percent (arsenic) to 99.9 (mercury) and averaged 90 percent for the group. Standard deviations ranged from 6.1 percent (beryllium) to 36.8 percent (thallium).

The sludge samples showed significantly higher variations in recovery rates and larger standard deviations than the wastewater samples. For the individual organic priority pollutants, recoveries ranged from 0 percent to over 100 percent, with the same range for the standard deviations. As an example, the recoveries and standard deviations for the two most frequently occuring organic priority pollutants in sludges are indicated below:

	Toluene		Bis-2-ethylhexyl phthalate	
	Mean Recovery (percent)	Standard Deviation	Mean Recovery (percent)	Standard Deviation
Primary sludges	148	175	65	34
Secondary sludges	146	237	75	28
Combined sludges	106	93	64	44

Percent recoveries for metals were more consistent, with the individual recoveries in primary, secondary and combined sludges ranging from 61 percent (for cadmium) with a 53 percent standard deviation to 136 percent (for lead) with a 131 percent standard deviation.

VI

EVALUATION AND DISCUSSION OF ANALYTICAL DATA

OVERVIEW OF PRIORITY POLLUTANT OCCURRENCE

Tables 3, 4, and 5 present occurrence data and concentration ranges for influent, secondary effluent and raw sludge samples for POTWs 1 through 40. The same data for the 10 supplemental POTWs are presented in Tables 6, 7, and 8. For each of the 129 priority pollutants these tables indicate the total number of samples analyzed, the number and percentage of times each pollutant was detected and the minimum and maximum concentrations of the detected pollutants.

Tables 3 through 8 present a broad-based overview of priority pollutant occurrence, and all appropriate samples collected during this study are included. Consequently, the 40 and 10 POTWs are not weighted equally, but according to the number of influent, effluent or sludge samples collected at the various plants. For example, this number ranges from a low of 4 influent samples collected at POTWs 8 and 35 to 28 influent samples collected at POTW 1. Additionally, at POTWs where prechlorinated and chlorinated secondary effluent samples were collected, both were included in the effluent occurrence tables. For these reasons, it is not meaningful to present "average" values for each pollutant.

For the purposes of interpreting the analytical data, the following assumptions were made in developing Tables 3 through 8:

- All pollutants reported as "Not-Detected" or "Less Than Detection Limit" were assumed not detected.
- Unconfirmed pesticides were assumed not detected.
- Samples where interferences prevented any analysis of that sample were not counted as data points. Where the laboratory reported an interference but quantified the result, a valid sample value was assumed.
- Values reported as below the detection limit but present in trace quantities were assumed detected.

The number of samples from each plant corresponds to the number of samples reported in Table 2.

For Tables 3, 4 and 5, the following samples were considered in the definition of influent, effluent or raw sludge.

Influent: All samples labeled Influent (Total), Influent (Other) and Other Source (at POTW 30 only). A total of 288

TABLE 3

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW INFLUENTS
PLANTS 1 TO 40

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
ZINC	282	282	100	UG/L	22	9250
CYANIDE	284	283	100	UG/L	3	7580
COPPER	282	281	100	UG/L	7	2300
TOLUENE	288	276	96	UG/L	1	13000
CHROMIUM	282	268	95	UG/L	8	2380
TETRACHLOROETHYLENE	288	273	95	UG/L	1	5700
METHYLENE CHLORIDE	288	266	92	UG/L	1	49000
BIS(2-ETHYLHEXYL) PHTHALATE	287	265	92	UG/L	2	670
CHLOROFORM	288	263	91	UG/L	1	430
TRICHLOROETHYLENE	288	260	90	UG/L	1	1800
1,1,1-TRICHLOROETHANE	288	244	85	UG/L	1	30000
ETHYLBENZENE	288	231	80	UG/L	1	730
NICKEL	282	224	79	UG/L	5	5970
PHENOL	288	228	79	UG/L	1	1400
SILVER	282	200	71	UG/L	2	320
MERCURY	282	196	70	NG/L	200	4000
DI-N-BUTYL PHTHALATE	287	185	64	UG/L	1	140
LEAD	282	176	62	UG/L	16	2540
1,2-TRANS-DICHLOROETHYLENE	288	179	62	UG/L	1	200
BENZENE	288	175	61	UG/L	1	1560
BUTYL BENZYL PHTHALATE	287	165	57	UG/L	2	560
CADMIUM	282	157	56	UG/L	1	1800
DIETHYL PHTHALATE	287	151	53	UG/L	1	42
NAPHTHALENE	287	142	49	UG/L	1	150
1,1-DICHLOROETHANE	288	89	31	UG/L	1	24
PENTACHLOROPHENOL	287	84	29	UG/L	1	640
GAMMA-BHC	288	75	26	NG/L	20	3900
1,1-DICHLOROETHYLENE	288	74	26	UG/L	1	243
1,2-DICHLOROBENZENE	287	67	23	UG/L	1	440
PHENANTHRENE	287	57	20	UG/L	1	93
ANTHRACENE	287	52	18	UG/L	1	93
1,4-DICHLOROBENZENE	287	49	17	UG/L	2	200
ARSENIC	282	43	15	UG/L	2	80
1,2-DICHLOROETHANE	288	42	15	UG/L	1	76000
ANTIMONY	282	39	14	UG/L	1	192
CHLOROBENZENE	288	36	13	UG/L	1	1500
DIMETHYL PHTHALATE	287	33	11	UG/L	1	110
METHYL CHLORIDE	288	33	11	UG/L	1	1900
1,2,4-TRICHLOROBENZENE	287	28	10	UG/L	3	4300
2,4-DIMETHYLPHENOL	288	28	10	UG/L	1	55
CARBON TETRACHLORIDE	288	25	9	UG/L	1	1900
TRICHLOROFLUOROMETHANE	288	25	9	UG/L	1	190
SELENIUM	282	24	9	UG/L	1	10
DICHLOROBROMOMETHANE	288	24	8	UG/L	1	22
ALPHA-BHC	288	22	8	NG/L	20	4400
1,1,2-TRICHLOROETHANE	288	21	7	UG/L	1	135
1,2-DICHLOROPROPANE	288	21	7	UG/L	1	2600
DI-N-OCTYL PHTHALATE	287	20	7	UG/L	2	210
FLUORANTHENE	287	20	7	UG/L	1	5

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL INFLUENT SAMPLES TAKEN
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

TABLE 3 (CONTINUED)

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW INFLUENTS
PLANTS 1 TO 40

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
2,4-DICHLOROPHENOL	288	20	7	UG/L	1	25
PYRENE	287	19	7	UG/L	1	84
1,3-DICHLOROBENZENE	287	19	7	UG/L	2	270
1,1,2,2-TETRACHLOROETHANE	288	19	7	UG/L	1	52
VINYL CHLORIDE	288	17	6	UG/L	28	3900
HEPTACHLOR	288	15	5	NG/L	80	500
PCB-1242	288	13	5	NG/L	2300	49600
2,4,6-TRICHLOROPHENOL	288	13	5	UG/L	1	11
FLUORENE	287	11	4	UG/L	1	5
METHYL BROMIDE	288	10	3	UG/L	18	164
BERYLLIUM	282	9	3	UG/L	1	4
ACENAPHTHENE	287	9	3	UG/L	1	21
CHRYSENE	287	9	3	UG/L	1	15
1,2-BENZANTHRACENE	287	9	3	UG/L	1	15
DELTA-BHC	288	9	3	NG/L	100	1400
PARACHLOROMETA CRESOL	288	9	3	UG/L	1	41
2-CHLOROPHENOL	288	9	3	UG/L	1	5
THALLIUM	282	8	3	UG/L	1	19
CHLORODIBROMOMETHANE	288	8	3	UG/L	1	3
BROMOFORM	288	7	2	UG/L	1	81
DICHLORODIFLUOROMETHANE	288	7	2	UG/L	42	1000
1,3-DICHLOROPROPYLENE	288	7	2	UG/L	2	100
ISOPHORONE	287	5	2	UG/L	5	23
N-NITROSODIPHENYLAMINE	287	5	2	UG/L	1	14
HEXACHLOROBENZENE	287	4	1	UG/L	1	20
1,2-DIPHENYLHYDRAZINE	287	4	1	UG/L	1	50
ALDRIN	289	4	1	NG/L	30	5000
INDENO(1,2,3-C,D) PYRENE	280	3	1	UG/L	5	5
BENZO (A)PYRENE	284	3	1	UG/L	5	10
2,4-DINITROTOLUENE	287	3	1	UG/L	2	8
ALPHA-ENDOSULFAN	288	3	1	NG/L	470	2700
CHLOROETHANE	288	3	1	UG/L	3	38
PCB-1254	288	3	1	NG/L	450	5500
BIS(2-CHLOROETHYOXY) METHANE	276	2	1	UG/L	5	5
1,12-BENZOPERYLENE	280	2	1	UG/L	5	35
1,2:5,6-DIBENZANTHRACENE	280	2	1	UG/L	5	5
3,4-BENZOFLUORANTHENE	285	2	1	UG/L	5	5
11,12-BENZOFLUORANTHENE	286	2	1	UG/L	5	5
HEXACHLOROETHANE	287	2	1	UG/L	6	12
2-CHLORONAPHTHALENE	287	2	1	UG/L	3	7
4,4'-DDD	287	2	1	NG/L	310	770
BETA-BHC	288	2	1	NG/L	10	1000
DIELDRIN	288	2	1	NG/L	30	40
HEPTACHLOR EPOXIDE	288	2	1	NG/L	230	500
ACENAPHTHYLENE	287	1	LT 1	UG/L	5	5
HEXACHLOROBUTADIENE	287	1	LT 1	UG/L	5	5
2,6-DINITROTOLUENE	287	1	LT 1	UG/L	5	5
4-BROMOPHENYL PHENYL ETHER	287	1	LT 1	UG/L	5	5
ACRYLONITRILE	288	1	LT 1	UG/L	82	82

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL INFLUENT SAMPLES TAKEN
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

TABLE 3 (CONTINUED)

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW INFLUENTS
PLANTS 1 TO 40

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
2-CHLOROETHYL VINYL ETHER	288	1	LT 1	UG/L	10	10
2-NITROPHENOL	288	1	LT 1	UG/L	64	64
2,4-DINITROPHENOL	288	1	LT 1	UG/L	7	7
4,4'-DDT	288	1	LT 1	NG/L	1200	1200

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL INFLUENT SAMPLES TAKEN
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

TABLE 4

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW EFFLUENTS
PLANTS 1 TO 40

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
CYANIDE	276	268	97	UG/L	2	2140
ZINC	289	272	94	UG/L	18	3150
COPPER	289	263	91	UG/L	3	255
METHYLENE CHLORIDE	302	260	86	UG/L	1	62000
CHROMIUM	289	247	85	UG/L	2	759
BIS(2-ETHYLHEXYL) PHTHALATE	302	254	84	UG/L	1	370
CHLOROFORM	302	247	82	UG/L	1	87
TETRACHLOROETHYLENE	302	239	79	UG/L	1	1200
NICKEL	289	216	75	UG/L	7	679
TOLUENE	302	160	53	UG/L	1	1100
DI-N-BUTYL PHTHALATE	302	158	52	UG/L	1	97
1,1,1-TRICHLOROETHANE	302	157	52	UG/L	1	3500
TRICHLOROETHYLENE	302	137	45	UG/L	1	230
GAMMA-BHC	303	99	33	NG/L	10	1400
MERCURY	288	88	31	NG/L	200	1200
PHENOL	302	87	29	UG/L	1	89
CADMIUM	289	81	28	UG/L	2	82
SILVER	289	73	25	UG/L	1	30
ETHYLBENZENE	302	73	24	UG/L	1	49
BENZENE	302	69	23	UG/L	1	72
LEAD	289	61	21	UG/L	20	217
PENTACHLOROPHENOL	301	63	21	UG/L	1	440
DICHLOROBROMOMETHANE	302	47	16	UG/L	1	6
DIETHYL PHTHALATE	301	39	13	UG/L	1	7
1,2-TRANS-DICHLOROETHYLENE	302	39	13	UG/L	1	17
ANTIMONY	289	37	13	UG/L	1	69
ARSENIC	289	35	12	UG/L	1	72
BUTYL BENZYL PHTHALATE	302	34	11	UG/L	1	34
SELENIUM	289	29	10	UG/L	1	150
1,1-DICHLOROETHYLENE	302	29	10	UG/L	1	11
CHLORODIBROMOMETHANE	302	25	8	UG/L	1	5
1,2-DICHLOROBENZENE	302	24	8	UG/L	1	27
1,2-DICHLOROETHANE	302	24	8	UG/L	1	13000
1,1-DICHLOROETHANE	302	23	8	UG/L	1	6
ALPHA-BHC	303	23	8	NG/L	20	740
METHYL CHLORIDE	302	21	7	UG/L	2	540
CARBON TETRACHLORIDE	302	19	6	UG/L	1	67
NAPHTHALENE	302	17	6	UG/L	1	24
2,4-DICHLOROPHENOL	302	13	4	UG/L	1	3
1,2-DICHLOROPROPANE	302	12	4	UG/L	1	8
1,2,4-TRICHLOROBENZENE	302	12	4	UG/L	3	310
DI-N-OCTYL PHTHALATE	302	11	4	UG/L	5	13
TRICHLOROFLUOROMETHANE	302	11	4	UG/L	1	14
2,4-DIMETHYLPHENOL	302	11	4	UG/L	1	10
CHLOROBENZENE	302	10	3	UG/L	1	9
PHENANTHRENE	302	10	3	UG/L	1	32
ANTHRACENE	302	9	3	UG/L	1	32
BROMOFORM	302	9	3	UG/L	1	5
2,4,6-TRICHLOROPHENOL	302	9	3	UG/L	1	3

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL SECONDARY EFFLUENT SAMPLES TAKEN
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

TABLE 4 (CONTINUED)

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW EFFLUENTS
PLANTS 1 TO 40

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
1,1,2-TRICHLOROETHANE	302	8	3	UG/L	1	6
1,1,2,2-TETRACHLOROETHANE	302	8	3	UG/L	1	5
1,4-DICHLOROBENZENE	302	8	3	UG/L	3	9
2-NITROPHENOL	302	8	3	UG/L	5	14
ALDRIN	303	8	3	NG/L	1000	6000
DELTA-BHC	303	8	3	NG/L	20	1300
CHRYSENE	302	7	2	UG/L	1	11
DIMETHYL PHTHALATE	302	7	2	UG/L	1	5
VINYL CHLORIDE	302	7	2	UG/L	2	200
1,2-BENZANTHRACENE	302	7	2	UG/L	1	11
1,3-DICHLOROBENZENE	302	7	2	UG/L	5	5
BETA-BHC	303	7	2	NG/L	40	1700
THALLIUM	289	6	2	UG/L	1	2
ACENAPHTHENE	302	6	2	UG/L	1	7
HEPTACHLOR	303	6	2	NG/L	30	1500
HEPTACHLOR EPOXIDE	303	6	2	NG/L	90	500
4-NITROPHENOL	302	5	2	UG/L	5	220
BERYLLIUM	289	4	1	UG/L	1	12
METHYL BROMIDE	302	4	1	UG/L	31	220
PYRENE	302	4	1	UG/L	5	5
PCB-1242	303	4	1	NG/L	750	2600
ACENAPHTHYLENE	302	3	1	UG/L	5	5
FLUORANTHENE	302	3	1	UG/L	5	5
HEXACHLOROBENZENE	302	3	1	UG/L	1	10
ISOPHORONE	302	3	1	UG/L	1	12
PARACHLOROMETA CRESOL	302	3	1	UG/L	1	4
4,4'-DDD	303	3	1	NG/L	60	300
INDENO(1,2,3-C,D) PYRENE	296	2	1	UG/L	4	5
DICHLORODIFLUOROMETHANE	302	2	1	UG/L	58	58
FLUORENE	302	2	1	UG/L	1	5
2-CHLOROPHENOL	302	2	1	UG/L	1	5
2,4-DINITROTOLUENE	302	2	1	UG/L	1	2
3,3'-DICHLOROBENZIDINE	302	2	1	UG/L	5	5
1,12-BENZOPERYLENE	295	1	LT 1	UG/L	4	4
1,2:5,6-DIBENZANTHRACENE	296	1	LT 1	UG/L	5	5
4,6-DINITRO-O-CRESOL	301	1	LT 1	UG/L	2	2
CHLOROETHANE	302	1	LT 1	UG/L	5	5
1,2-DIPHENYLHYDRAZINE	302	1	LT 1	UG/L	2	2
CHLORDANE	303	1	LT 1	NG/L	200	200
DIELDRIN	303	1	LT 1	NG/L	40	40
PCB-1254	303	1	LT 1	NG/L	500	500

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL SECONDARY EFFLUENT SAMPLES TAKEN
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT
  AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

TABLE 5

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW RAW SLUDGES
PLANTS 1 TO 40

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
CYANIDE	432	429	99	UG/L	36	286000
ZINC	439	434	99	UG/L	70	1100000
LEAD	438	432	99	UG/L	31	170000
COPPER	436	422	97	UG/L	100	180000
BIS(2-ETHYLHEXYL) PHTHALATE	437	415	95	UG/L	2	47000
TOLUENE	434	408	94	UG/L	1	427300
ARSENIC	438	407	93	UG/L	1	6000
CHROMIUM	438	407	93	UG/L	110	160000
SILVER	438	400	91	UG/L	15	24000
ANTIMONY	429	386	90	UG/L	1	2000
CADMIUM	438	381	87	UG/L	4	95000
NICKEL	438	364	83	UG/L	12	84000
SELENIUM	431	335	78	UG/L	1	140000
METHYLENE CHLORIDE	436	318	73	UG/L	1	10500
ETHYLBENZENE	436	275	63	UG/L	1	4200
MERCURY	435	267	61	NG/L	110	690000
BENZENE	436	264	61	UG/L	1	953
1,2-TRANS-DICHLOROETHYLENE	436	261	60	UG/L	1	96000
TRICHLOROETHYLENE	432	232	54	UG/L	1	32700
PYRENE	437	233	53	UG/L	1	1700
PHENANTHRENE	437	232	53	UG/L	1	10100
PHENOL	438	218	50	UG/L	5	17000
ANTHRACENE	437	210	48	UG/L	1	10100
DI-N-BUTYL PHTHALATE	437	195	45	UG/L	1	6900
FLUORANTHENE	437	194	44	UG/L	1	9930
BUTYL BENZYL PHTHALATE	437	187	43	UG/L	2	45000
TETRACHLOROETHYLENE	436	175	40	UG/L	1	2800
1,1-DICHLOROETHANE	436	150	34	UG/L	1	2885
NAPHTHALENE	437	149	34	UG/L	1	5200
CHRYSENE	436	136	31	UG/L	1	1500
1,2-BENZANTHRACENE	437	116	27	UG/L	1	1500
CHLOROFORM	436	104	24	UG/L	1	366
BERYLLIUM	439	98	22	UG/L	2	310
1,1,1-TRICHLOROETHANE	436	83	19	UG/L	1	10910
1,4-DICHLOROBENZENE	437	74	17	UG/L	2	12000
1,2-DICHLOROBENZENE	437	71	16	UG/L	3	1319
1,1,2,2-TETRACHLOROETHANE	434	66	15	UG/L	1	3040
PENTACHLOROPHENOL	438	62	14	UG/L	10	10500
CHLOROBENZENE	436	57	13	UG/L	1	687
1,2,4-TRICHLOROBENZENE	437	57	13	UG/L	2	8300
3,4-BENZOFLUORANTHENE	437	47	11	UG/L	1	2400
DI-N-OCTYL PHTHALATE	437	45	10	UG/L	4	1024
1,2-DICHLOROETHANE	436	44	10	UG/L	1	10010
DICHLORODIFLUOROMETHANE	436	40	9	UG/L	2	4300
1,3-DICHLOROBENZENE	437	40	9	UG/L	14	1900
DIETHYL PHTHALATE	437	39	9	UG/L	1	786
11,12-BENZOFLUORANTHENE	438	37	8	UG/L	1	379
VINYL CHLORIDE	435	35	8	UG/L	8	62000
THALLIUM	437	32	7	UG/L	1	31

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL RAW SLUDGE SAMPLES TAKEN
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

TABLE 5 (CONTINUED)

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW RAW SLUDGES
PLANTS 1 TO 40

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
CHLOROETHANE	436	31	7	UG/L	5	71000
1,2-DICHLOROPROPANE	435	28	6	UG/L	1	103
DICHLOROBROMOMETHANE	436	28	6	UG/L	3	260
FLUORENE	437	28	6	UG/L	1	1300
METHYL CHLORIDE	436	25	6	UG/L	12	6100
TRICHLOROFLUOROMETHANE	436	22	5	UG/L	2	113
ACENAPHTHENE	437	21	5	UG/L	6	4600
BENZO (A)PYRENE	437	21	5	UG/L	1	490
DIMETHYL PHTHALATE	437	20	5	UG/L	3	650
METHYL BROMIDE	431	19	4	UG/L	33	30000
1,1,2-TRICHLOROETHANE	434	16	4	UG/L	1	2100
CARBON TETRACHLORIDE	436	16	4	UG/L	5	3030
1,1-DICHLOROETHYLENE	436	14	3	UG/L	1	14000
CHLORODIBROMOMETHANE	435	10	2	UG/L	10	75
2-CHLOROPHENOL	438	9	2	UG/L	11	72
2,4-DICHLOROPHENOL	438	9	2	UG/L	14	298
INDENO(1,2,3-C,D) PYRENE	437	8	2	UG/L	17	102
1,12-BENZOPERYLENE	437	8	2	UG/L	12	133
HEXACHLOROBENZENE	437	7	2	UG/L	28	780
ACRYLONITRILE	436	5	1	UG/L	5	290
PARACHLOROMETA CRESOL	438	5	1	UG/L	12	35
ACENAPHTHYLENE	437	3	1	UG/L	24	320
1,3-DICHLOROPROPYLENE	436	2	LT 1	UG/L	5	19
1,2:5,6-DIBENZANTHRACENE	437	2	LT 1	UG/L	12	50
2,4,6-TRICHLOROPHENOL	438	2	LT 1	UG/L	11	16
BROMOFORM	436	1	LT 1	UG/L	5	5
HEXACHLOROBUTADIENE	437	1	LT 1	UG/L	2700	2700
2-CHLORONAPHTHALENE	437	1	LT 1	UG/L	1600	1600
4,4'-DDE	443	1	LT 1	NG/L	10000	10000

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL RAW SLUDGE SAMPLES TAKEN
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

influent samples were collected for the 40 POTWs. For some parameters, a lower number of samples are reported because of either interferences in the analysis or bottles broken or lost in transit or at the laboratories.

Secondary Effluent: All samples labeled Secondary Effluent (Chlorinated), Secondary Effluent (Other) and Secondary Effluent (Unchlorinated) were included. At dual plants where parallel unit processes were sampled, both effluents are included. A total of 303 samples were collected for the 40 POTWs, although for many parameters a lower number of analyses were reported for the reasons outlined above. At plants where the secondary effluent was sampled both before and after the chlorination step, metals were generally sampled only at the final effluent, which explains the lower number of reported metals analyses.

Raw Sludges: All unthickened or thickened primary, secondary, or combined sludge samples were included in this table, while digested and heat treated sludges were excluded. The sample points listed in Table 2 that are included are:

- Combined Sludge (Both Thickened)
- Combined Sludge (Other)
- Combined Sludge (Untreated)
- Combined Sludge (Raw From Primary)
- Combined Sludge (Secondary Thickened)
- Primary Sludge (Other)
- Primary Sludge (Untreated)
- Primary Sludge (Thickened)
- Secondary Sludge (Humus)
- Secondary Sludge (Other)
- Waste Activated Sludge (Untreated)
- Waste Activated Sludge (Thickened)
- Waste Activated Sludge (Other Thickened)

A total of 443 sludge samples were collected, although a lower number is usually reported because of the many analytical interferences.

The occurrence data in Table 3 show that in influent samples from the 40 POTW data-base, a total of 102 priority pollutants were measured at least once above their detection limits. However, only 40 pollutants were detected in 10 percent or more of these samples, and 24 pollutants were measured in approximately 50 percent or more of the samples. The majority of the data evaluations in this section focus on these 24 pollutants.

Table 4 indicates that 90 priority pollutants were detected in any secondary effluent, although only 12 were detected in more than 50 percent of the samples, and 30 were detected in 10 per-

cent or more of the samples. In both the influent and effluent samples, copper, cyanide, and zinc were the most commonly measured pollutants.

Priority pollutant occurrence in raw sludge samples is presented in Table 5. A total of 78 pollutants were detected at least once, and 22 pollutants were detected in more than half the samples, while 43 pollutants were detected in more than 10 percent of the samples. Twelve of the 16 most commonly occurring pollutants were metals.

Tables 6, 7 and 8 show the occurrence of priority pollutants in the 10 supplemental POTWs influent, effluent and sludge samples, respectively. These tables are based on the same sample locations for the 40 POTWs with the following exceptions:

Influent: All influent samples are Influent (Total).

Effluent: All effluent samples are Secondary Effluent (Chlorinated) except Plant 55 where samples were unchlorinated and Plant 56 where only Tertiary Chlorinated Effluent was sampled.

Raw Sludge: All raw sludge samples are from the following locations:

- Primary Sludge (Raw)
- Combined Sludge (Untreated)
- Combined Sludge (Both Thickened)
- Waste Activated Sludge (Untreated) and
- Waste Activated Sludge (Other Thickened)

In total, 60 influent samples, 60 effluent samples and 81 sludge samples were taken. Similar to the reasons stated above, the number of samples analyzed may be less than these values. In addition, analytical capacity was not available to perform organics analyses on approximately 50 percent of the sludge samples in the supplemental study. Therefore, where some metals have reported values for all 81 samples, the organic fractions have a maximum of 42 reported values.

The most frequently found pollutants in the 10 supplemental plants are nearly identical to those found in the 40 plant study. A further discussion of the 10 plant data is presented later in this section.

TABLE 6

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW INFLUENTS
SUPPLEMENTAL PLANTS 51 TO 60

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
COPPER	60	60	100	UG/L	11	1090
ZINC	60	60	100	UG/L	62	9000
BIS(2-ETHYLHEXYL) PHTHALATE	60	59	98	UG/L	1	1610
SILVER	60	58	97	UG/L	1	80
TOLUENE	60	57	95	UG/L	1	2100
CHROMIUM	60	56	93	UG/L	3	6950
NICKEL	60	54	90	UG/L	6	559
TETRACHLOROETHYLENE	60	54	90	UG/L	1	1250
METHYLENE CHLORIDE	60	53	88	UG/L	1	125
DI-N-BUTYL PHTHALATE	60	48	80	UG/L	1	200
CHLOROFORM	60	46	77	UG/L	1	1100
MERCURY	60	45	75	NG/L	100	7000
1,1,1-TRICHLOROETHANE	60	45	75	UG/L	1	1800
BENZENE	60	43	72	UG/L	1	230
PHENOL	60	43	72	UG/L	2	1200
ETHYLBENZENE	60	41	68	UG/L	1	135
TRICHLOROETHYLENE	60	41	68	UG/L	1	500
CYANIDE	58	39	67	UG/L	10	340
DIETHYL PHTHALATE	60	39	65	UG/L	1	24
1,2-TRANS-DICHLOROETHYLENE	60	39	65	UG/L	1	98
LEAD	60	37	62	UG/L	50	1400
ARSENIC	60	34	57	UG/L	1	64
ANTIMONY	60	25	42	UG/L	1	122
NAPHTHALENE	60	23	38	UG/L	1	380
CADMIUM	60	21	35	UG/L	3	1370
SELENIUM	60	21	35	UG/L	1	10
CHLOROETHANE	60	17	28	UG/L	15	1600
DI-N-OCTYL PHTHALATE	60	15	25	UG/L	2	90
1,2-DICHLOROBENZENE	60	14	23	UG/L	1	350
BUTYL BENZYL PHTHALATE	60	13	22	UG/L	1	110
PYRENE	60	13	22	UG/L	1	25
ACENAPHTHENE	60	12	20	UG/L	6	1950
FLUORANTHENE	60	12	20	UG/L	2	57
ANTHRACENE	60	11	18	UG/L	1	424
PHENANTHRENE	60	11	18	UG/L	1	369
1,1-DICHLOROETHYLENE	60	10	17	UG/L	1	29
CHLOROBENZENE	60	9	15	UG/L	1	10
METHYL CHLORIDE	60	9	15	UG/L	10	460
1,1-DICHLOROETHANE	60	9	15	UG/L	1	87
2,4-DIMETHYLPHENOL	60	9	15	UG/L	3	56
GAMMA-BHC	60	8	13	NG/L	400	500
VINYL CHLORIDE	60	8	13	UG/L	6	70000
1,2-DICHLOROETHANE	60	7	12	UG/L	3	13000
1,4-DICHLOROBENZENE	60	7	12	UG/L	4	60
BIS(2-CHLOROETHYOXY) METHANE	60	6	10	UG/L	1	35
CHRYSENE	60	6	10	UG/L	2	8
DIMETHYL PHTHALATE	60	6	10	UG/L	4	34
FLUORENE	60	6	10	UG/L	6	62
1,2-BENZANTHRACENE	60	6	10	UG/L	2	16

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL POTW INFLUENT SAMPLES TAKEN
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

TABLE 6 (CONTINUED)

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW INFLUENTS
SUPPLEMENTAL PLANTS 51 TO 60

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
1,2-DIPHENYLHYDRAZINE	60	6	10	UG/L	2	6
1,2,4-TRICHLOROBENZENE	60	6	10	UG/L	54	4600
THALLIUM	61	6	10	UG/L	1	10
PENTACHLOROPHENOL	60	5	8	UG/L	1	53
3,3'-DICHLOROBENZIDINE	60	5	8	UG/L	19	209
NITROBENZENE	60	4	7	UG/L	15	220
2,4-DICHLOROPHENOL	60	4	7	UG/L	108	1190
DELTA-BHC	60	3	5	NG/L	800	3500
2,4,6-TRICHLOROPHENOL	60	3	5	UG/L	4	12
ACENAPHTHYLENE	60	2	3	UG/L	1	2
ALDRIN	60	2	3	NG/L	100	1800
ALPHA-BHC	60	2	3	NG/L	500	500
CARBON TETRACHLORIDE	60	2	3	UG/L	1	2
2-CHLOROPHENOL	60	2	3	UG/L	39	108
2,4-DINITROTOLUENE	60	2	3	UG/L	13	18
2,6-DINITROTOLUENE	60	2	3	UG/L	20	25
4-NITROPHENOL	60	2	3	UG/L	470	550
BIS(2-CHLOROETHYL) ETHER	60	1	2	UG/L	748	748
HEPTACHLOR EPOXIDE	60	1	2	NG/L	900	900
HEXACHLOROBENZENE	60	1	2	UG/L	10	10
ISOPHORONE	60	1	2	UG/L	2	2
PARACHLOROMETA CRESOL	60	1	2	UG/L	4	4
TRICHLOROFLUOROMETHANE	60	1	2	UG/L	1	1
1,2-DICHLOROPROPANE	60	1	2	UG/L	88	88
1,3-DICHLOROBENZENE	60	1	2	UG/L	1	1
2,4-DINITROPHENOL	60	1	2	UG/L	35	35
4,4'-DDE	60	1	2	NG/L	400	400

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL POTW INFLUENT SAMPLES TAKEN
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

TABLE 7

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW EFFLUENTS
SUPPLEMENTAL PLANTS 51 TO 60

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
BIS(2-ETHYLHEXYL) PHTHALATE	60	57	95	UG/L	1	418
ZINC	60	57	95	UG/L	11	3800
METHYLENE CHLORIDE	60	52	87	UG/L	1	135
NICKEL	60	51	85	UG/L	5	351
CHROMIUM	60	50	83	UG/L	3	890
COPPER	60	49	82	UG/L	4	169
DI-N-BUTYL PHTHALATE	60	47	78	UG/L	1	138
CHLOROFORM	60	38	63	UG/L	1	106
CYANIDE	59	33	56	UG/L	10	400
SILVER	59	30	51	UG/L	1	44
ARSENIC	60	30	50	UG/L	1	122
DIETHYL PHTHALATE	60	26	43	UG/L	1	32
1,1,1-TRICHLOROETHANE	60	26	43	UG/L	1	70
TOLUENE	60	24	40	UG/L	1	140
SELENIUM	59	22	37	UG/L	1	1045
ANTIMONY	60	22	37	UG/L	1	30
TRICHLOROETHYLENE	60	19	32	UG/L	2	630
LEAD	60	17	28	UG/L	40	400
TETRACHLOROETHYLENE	60	17	28	UG/L	1	200
PHENOL	60	16	27	UG/L	1	35
CHLOROETHANE	60	15	25	UG/L	100	960
CADMIUM	60	14	23	UG/L	1	199
DI-N-OCTYL PHTHALATE	60	12	20	UG/L	1	12
1,2-TRANS-DICHLOROETHYLENE	60	12	20	UG/L	1	5
MERCURY	60	10	17	NG/L	100	2000
BENZENE	60	9	15	UG/L	1	53
ETHYLBENZENE	60	8	13	UG/L	1	120
ACENAPHTHENE	60	7	12	UG/L	1	25
BUTYL BENZYL PHTHALATE	60	6	10	UG/L	1	2200
FLUORANTHENE	60	6	10	UG/L	7	33
METHYL CHLORIDE	60	6	10	UG/L	5	335
PYRENE	60	6	10	UG/L	2	11
VINYL CHLORIDE	60	6	10	UG/L	2300	5800
THALLIUM	59	5	8	UG/L	1	9
GAMMA-BHC	60	5	8	NG/L	500	500
1,2,4-TRICHLOROBENZENE	60	5	8	UG/L	2	10
1,2-DICHLOROBENZENE	60	4	7	UG/L	1	6
1,2-DIPHENYLHYDRAZINE	60	4	7	UG/L	1	1
HEPTACHLOR	60	3	5	NG/L	500	500
ISOPHORONE	60	3	5	UG/L	2	8
2,4-DICHLOROPHENOL	60	3	5	UG/L	209	470
2,4-DIMETHYLPHENOL	60	3	5	UG/L	1	1
ALPHA-BHC	60	2	3	NG/L	200	600
CHLOROBENZENE	60	2	3	UG/L	2	2
DELTA-BHC	60	2	3	NG/L	300	500
4,6-DINITRO-O-CRESOL	60	2	3	UG/L	1	4
ALDRIN	60	1	2	NG/L	100	100
ALPHA-ENDOSULFAN	60	1	2	NG/L	1333	1333

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL SECONDARY EFFLUENT SAMPLES EXCEPT AT PLANT 56 WHERE ONLY TERTIARY EFFLUENT WAS SAMPLED
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

TABLE 7 (CONTINUED)

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW EFFLUENTS
SUPPLEMENTAL PLANTS 51 TO 60

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
ANTHRACENE	60	1	2	UG/L	4	4
BETA-BHC	60	1	2	NG/L	500	500
BETA-ENDOSULFAN	60	1	2	NG/L	680	680
DIMETHYL PHTHALATE	60	1	2	UG/L	2	2
FLUORENE	60	1	2	UG/L	3	3
HEPTACHLOR EPOXIDE	60	1	2	NG/L	200	200
INDENO(1,2,3-C,D) PYRENE	60	1	2	UG/L	42	42
NITROBENZENE	60	1	2	UG/L	4	4
PHENANTHRENE	60	1	2	UG/L	4	4
1,2-DICHLOROETHANE	60	1	2	UG/L	1	1
1,4-DICHLOROBENZENE	60	1	2	UG/L	4	4
2,4-DINITROTOLUENE	60	1	2	UG/L	7	7
4-CHLOROPHENYL PHENYL ETHER	60	1	2	UG/L	6	6
4,4'-DDT	60	1	2	NG/L	490	490

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL SECONDARY EFFLUENT SAMPLES EXCEPT AT PLANT 56 WHERE ONLY TERTIARY EFFLUENT WAS SAMPLED
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

TABLE 8

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW RAW SLUDGES
SUPPLEMENTAL PLANTS 51 TO 60

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
BIS(2-ETHYLHEXYL) PHTHALATE	42	42	100	UG/L	440	47000
COPPER	78	78	100	UG/L	330	82472
LEAD	81	81	100	UG/L	180	82000
SILVER	81	81	100	UG/L	6	4500
TOLUENE	41	41	100	UG/L	2	9601970
ZINC	77	77	100	UG/L	840	5180000
NICKEL	79	78	99	UG/L	38	27300
MERCURY	81	78	96	NG/L	600	860000
CHROMIUM	80	77	96	UG/L	120	110000
ARSENIC	81	74	91	UG/L	1	5000
CADMIUM	81	68	84	UG/L	12	74100
ANTIMONY	81	65	80	UG/L	1	520
ETHYLBENZENE	41	30	73	UG/L	1	927
TRICHLOROETHYLENE	41	30	73	UG/L	2	299
CYANIDE	72	52	72	UG/L	10	4000
SELENIUM	81	58	72	UG/L	2	1718
BENZENE	41	27	66	UG/L	1	934
BERYLLIUM	81	52	64	UG/L	5	42
TETRACHLOROETHYLENE	41	25	61	UG/L	3	486
PHENOL	42	25	60	UG/L	97	4500
FLUORANTHENE	42	24	57	UG/L	4	37000
PYRENE	42	24	57	UG/L	41	33000
1,2-TRANS-DICHLOROETHYLENE	41	22	54	UG/L	1	12900
CHLOROBENZENE	41	21	51	UG/L	5	1090
1,1-DICHLOROETHANE	41	18	44	UG/L	5	777
PHENANTHRENE	42	18	43	UG/L	27	35000
METHYLENE CHLORIDE	41	17	41	UG/L	1	567
DI-N-BUTYL PHTHALATE	42	17	40	UG/L	40	3066
NAPHTHALENE	42	16	38	UG/L	199	8100
1,2-DICHLOROPROPANE	41	14	34	UG/L	2	53
ANTHRACENE	42	13	31	UG/L	98	35000
CHRYSENE	42	12	29	UG/L	200	15000
1,2-BENZANTHRACENE	42	12	29	UG/L	200	15000
1,4-DICHLOROBENZENE	42	12	29	UG/L	55	3700
CHLOROFORM	41	11	27	UG/L	1	13
1,1,2,2-TETRACHLOROETHANE	41	10	24	UG/L	4	94
BUTYL BENZYL PHTHALATE	42	7	17	UG/L	160	1090
11,12-BENZOFLUORANTHENE	42	7	17	UG/L	85	6200
TRICHLOROFLUOROMETHANE	41	6	15	UG/L	3	353
DICHLOROBROMOMETHANE	41	5	12	UG/L	79	853
1,2,4-TRICHLOROBENZENE	42	5	12	UG/L	2100	15000
THALLIUM	80	8	10	UG/L	8	251
1,1,1-TRICHLOROETHANE	41	4	10	UG/L	7	50
1,2-DICHLOROETHANE	41	4	10	UG/L	17	27
1,2-DICHLOROBENZENE	42	4	10	UG/L	270	590
2,4-DICHLOROPHENOL	42	4	10	UG/L	340	3800
DICHLORODIFLUOROMETHANE	41	3	7	UG/L	26	821
METHYL CHLORIDE	41	3	7	UG/L	1	6

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL RAW SLUDGE SAMPLES TAKEN
* NO SLUDGE SAMPLES WERE TAKEN AT PLANT 55
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

TABLE 8 (CONTINUED)

OCCURRENCE OF PRIORITY POLLUTANTS IN POTW RAW SLUDGES
SUPPLEMENTAL PLANTS 51 TO 60

PARAMETER	NUMBER OF SAMPLES ANALYZED	NUMBER OF TIMES DETECTED	PERCENT OF SAMPLES WHERE DETECTED	UNITS	MINIMUM VALUE DETECTED	MAXIMUM VALUE
BENZO (A)PYRENE	42	3	7	UG/L	19000	92000
DIETHYL PHTHALATE	42	3	7	UG/L	51	120
FLUORENE	42	3	7	UG/L	230	6300
HEXACHLOROBENZENE	42	3	7	UG/L	47	402
1,3-DICHLOROBENZENE	42	3	7	UG/L	608	4100
ACRYLONITRILE	41	2	5	UG/L	4	119
CHLOROETHANE	41	2	5	UG/L	11	18
ACENAPHTHENE	42	2	5	UG/L	4900	12000
PENTACHLOROPHENOL	42	2	5	UG/L	150	250
1,12-BENZOPERYLENE	42	2	5	UG/L	3000	3500
CARBON TETRACHLORIDE	41	1	2	UG/L	33	33
VINYL CHLORIDE	41	1	2	UG/L	8170	8170
1,1-DICHLOROETHYLENE	41	1	2	UG/L	272	272
1,1,2-TRICHLOROETHANE	41	1	2	UG/L	38	38
ACENAPHTHYLENE	42	1	2	UG/L	52	52

* POLLUTANTS NOT LISTED WERE NEVER DETECTED
* OCCURRENCES ARE BASED ON ALL RAW SLUDGE SAMPLES TAKEN
* NO SLUDGE SAMPLES WERE TAKEN AT PLANT 55
* POLLUTANTS REPORTED AS LESS THAN THE DETECTION LIMIT AND UNCONFIRMED PESTICIDES ARE ASSUMED NOT DETECTED

SUMMARY OF INFLUENT POLLUTANT CONCENTRATIONS

Table 9 presents the average and median influent concentrations for the priority pollutants detected in more than 50 percent of all influent samples. Several different definitions of "average" were utilized, since each may be more meaningful for specific applications. The first column is the average of the average value from each of the 40 POTWs. This method assigns an equal weight to each POTW. For several parameters, such as methylene chloride and 1,1,1-trichloroethane, very high values from a few POTWs have significant impact on the overall average. The second column indicates the median value from the same data base of the 40 POTW plant average. The few plants with very high concentrations for a pollutant do not have major significance in the median computation. The third method presents the flow weighted average concentrations, based on the same 40 POTW individual plant average concentrations and that plant's reported flow during the sampling period. For most parameters the flow weighted average is close to the average of the 40 POTW individual averages.

For the calculations used in developing Table 9, all influent values reported below the detection limit, or "Not-Detected" were averaged as zero. Also, unconfirmed pesticides were averaged as zero since they have previously been assumed to be not detected. Table 9 is most meaningful when utilized in conjunction with Table 3, which indicates the percentage occurrence for each priority pollutant in POTW influents.

IMPACT OF INDUSTRIAL CONTRIBUTION ON INFLUENT QUALITY

The amount of industrial wastewater discharged to the 40 POTWs ranged from 2 percent to a maximum of 65 percent of their average flow (see Table 1). Review of the influent priority pollutant data reveals that, in general, the higher the industrial contribution, the greater the concentration. This trend is exhibited for all of the major priority pollutant fractions. Figures 2, 3 and 4 present plots of the percent industrial contributions versus the sum of influent priority pollutant concentrations for the metals, volatiles, and base neutrals, respectively. All three plots indicate a fair amount of data point scatter, but all three have least square fits with a positive slope. This indicates a tendency for the total priority toxic pollutant concentrations to increase when percent industrial flow increases. There are a number of other factors that might be expected to influence priority toxic pollutant concentrations. Among the major ones are:

- The inconsistencies between POTWs in the definition of industrial flow (this was discussed in Section II).

- Differences between plants in their collection systems and the nature of the non-industrial "background" contribution.

TABLE 9

SUMMARY OF SELECTED INFLUENT POLLUTANT CONCENTRATIONS

FOR POTWs 1 THROUGH 40

Parameter[1]	Average of Plant Average Concentrations	Median of Plant Average Concentrations	Flow Weighted Average of Plant Average Concentrations
BOD (mg/l)	214	215	218
TSS (mg/l)	182	153	201
Cadmium	38	3	17
Chromium	173	105	142
Copper	226	132	251
Cyanide	577	249	420
Lead	101	53	119
Mercury (ng/l)	551	517	573
Nickel	120	54	82
Silver	9	8	9
Zinc	723	273	740
Benzene	20	2	18
1,1,1-Trichloroethane	220	29	343
Chloroform	17	7	18
1,2-trans-Dichloroethylene	7	2	4
Ethylbenzene	22	8	32
Methylene Chloride	508	38	246
Tetrachloroethylene	125	23	188
Toluene	216	27	289
Trichloroethylene	76	28	86
Phenol	54	7	70
Naphthalene	7	3	8
Bis (2-ethyl hexyl) Phthalate	45	27	51
Butyl Benzyl Phthalate	12	3	16
Di-N-Butyl Phthlate	9	4	10
Diethyl Phthalate	4	3	3
Total Metals[2]	1398	709	1367
Total Volatiles	1899	277	1793
Total Acids	69	13	76
Total Base Neutrals	117	71	109

(1) All units in ug/l unless otherwise noted.
(2) Excluding Cyanide.

FIGURE 2

CORRELATION OF PERCENT INDUSTRIAL FLOW
TO INFLUENT TOTAL METALS CONCENTRATION

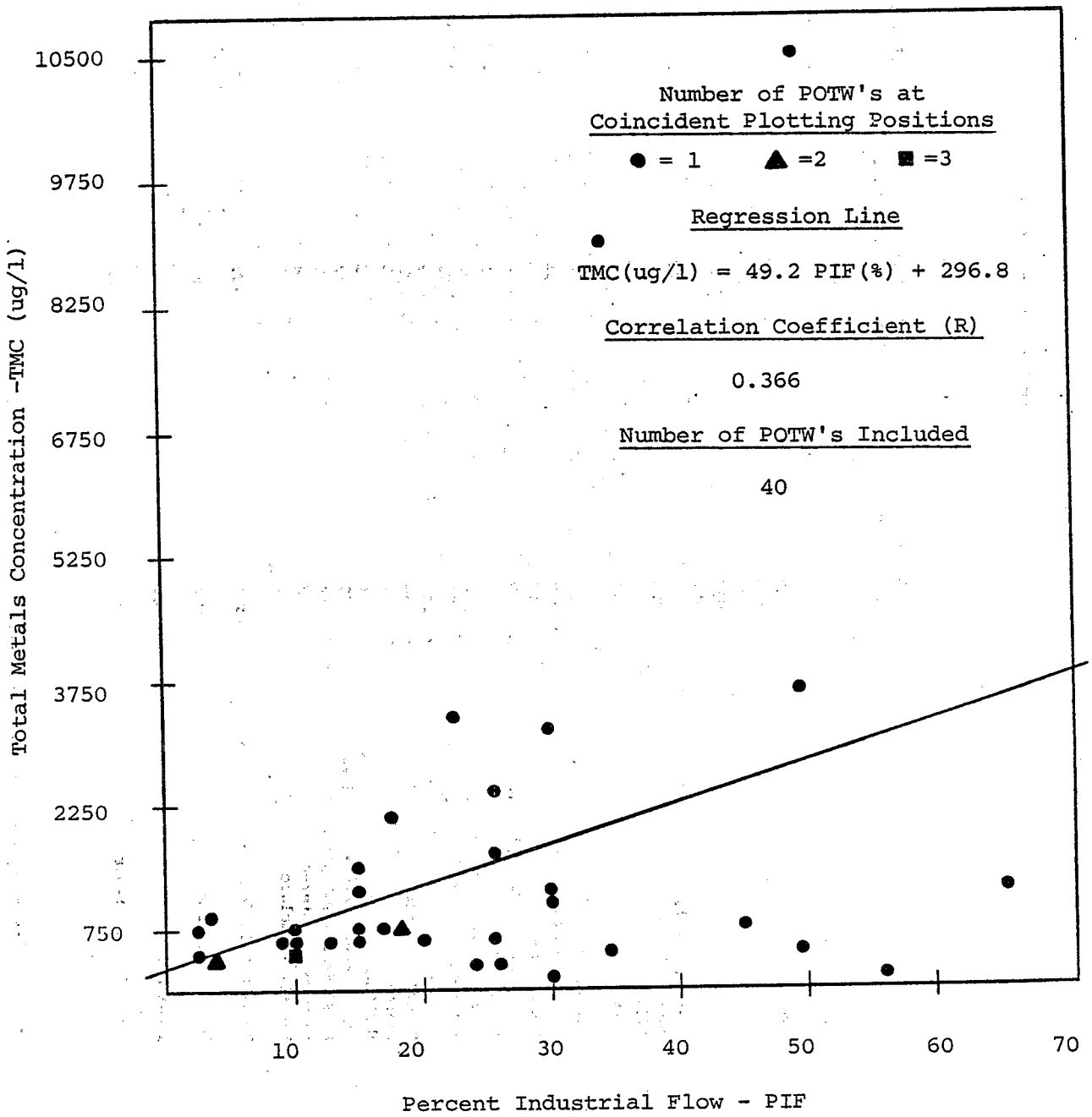


FIGURE 3

CORRELATION OF PERCENT INDUSTRIAL FLOW
TO INFLUENT TOTAL VOLATILES CONCENTRATION

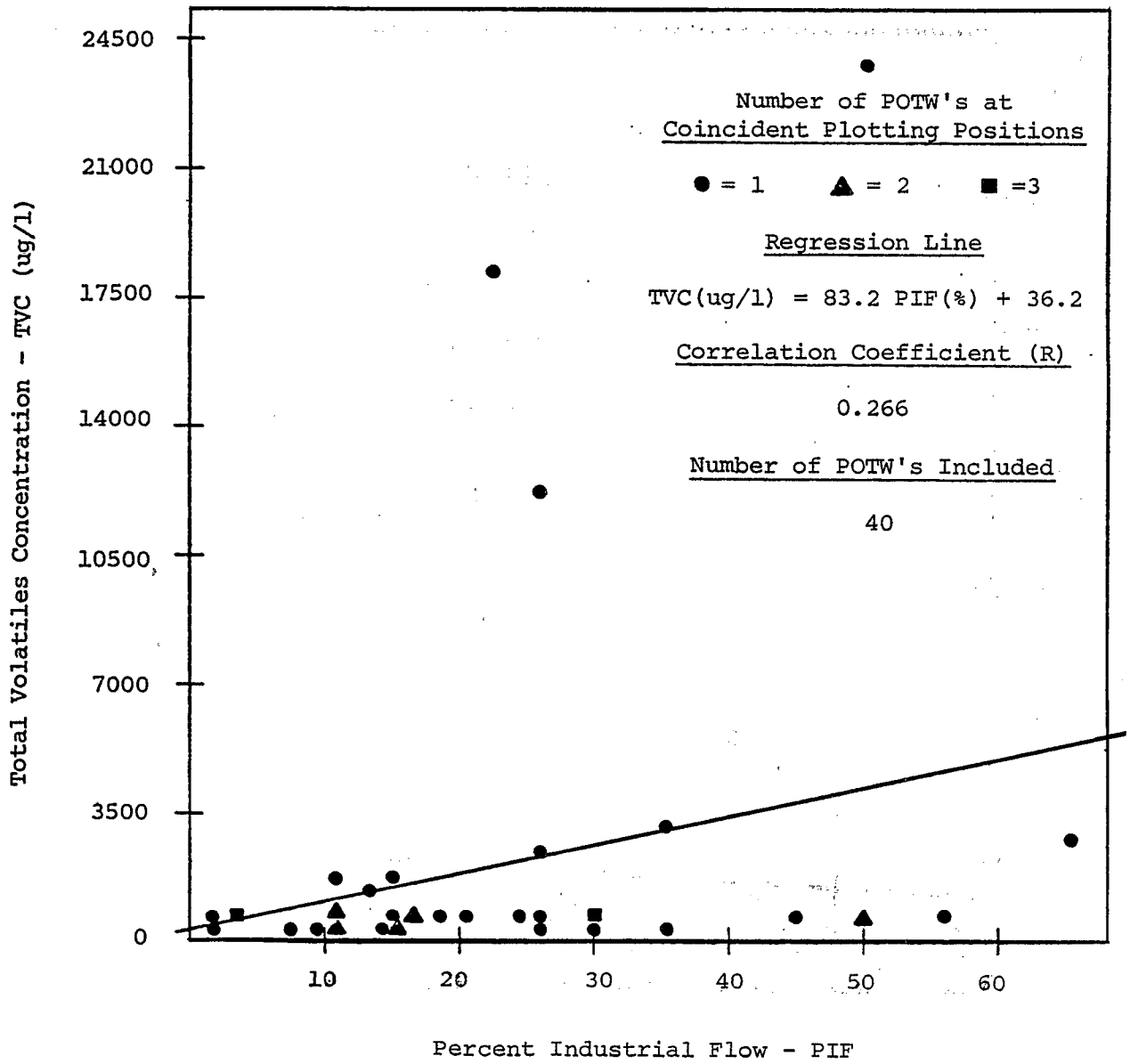
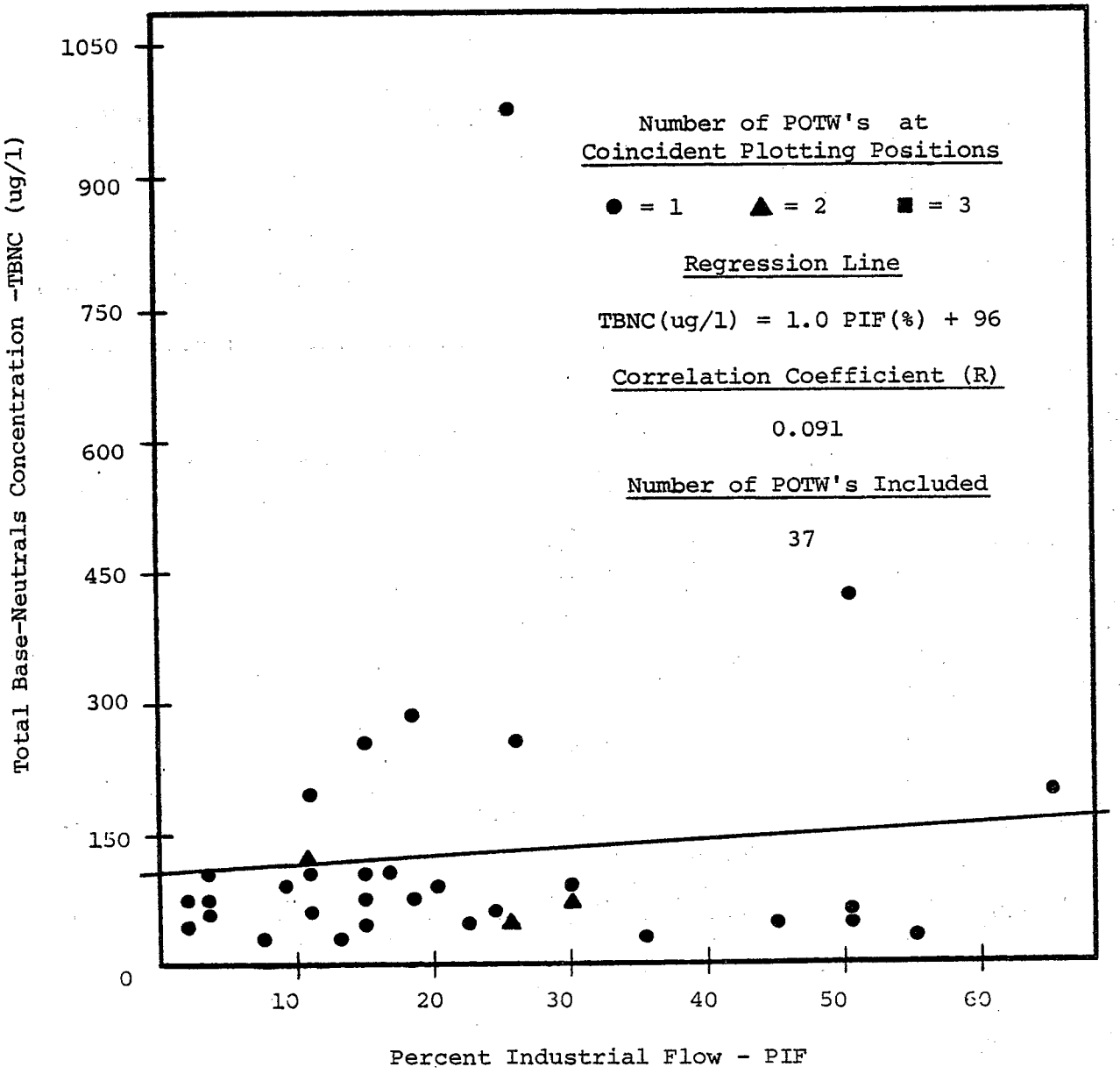


FIGURE 4

CORRELATION OF PERCENT INDUSTRIAL FLOW
TO INFLUENT TOTAL BASE-NEUTRALS CONCENTRATION



This has the greatest influence at POTWs with low influent priority pollutant concentrations.

- Different levels of pretreatment program development and enforcement between the different cities.

Additionally, the contribution of priority toxic pollutants is associated largely with specific industrial categories. The preceding analysis only dealt with the total reported industrial flow, and not with only those industries that are expected to contribute priority pollutants. However, during the time frame of the 40 POTW sampling program, only about 25 percent of the plants had completed their Industrial Waste Survey associated with their pretreatment program. Consequently, most plants did not have a complete and thorough list of all of their contributing industries.

To determine whether the correlation could be strengthened by the screening of certain data subject to the above interferences, two additional analyses were attempted. The first was to examine the correlation for only POTWs that had higher influent concentrations of priority pollutants than the average of the 40 POTWs averages. This minimized the interferences from the plants where the detection limits or nature of non-industrial sewage had the most significant effects on the reported concentrations. This analysis resulted in a much improved correlation coefficient for total metals (R increased from 0.366 to 0.677.) However, the correlation coefficients for total volatiles and total base neutrals both decreased slightly (from R = 0.266 to 0.141 and R = 0.091 to 0.083, respectively.)

The second analysis consisted of screening those POTWs (nine) that had initiated their pretreatment programs. It was hypothesized that these nine cities would have significantly lower influent priority pollutant concentrations than cities with similar industrial contributors that had not yet developed or enforced any pretreatment regulations. This screening resulted in a more uniform data base of 31 POTWs with a large variety of industrial flow. For these 31 POTWs, the correlation coefficients for the total metals, total volatiles and total base neutrals all increased slightly; from 0.366 to 0.418, from 0.266 to 0.342, and from 0.091 to 0.130, respectively.

TREATMENT OR REMOVAL OF PRIORITY POLLUTANTS IN POTWS

Appendix B presents cumulative distributions of the percent removals and effluent concentrations for the 24 priority pollutants detected 50 percent or more of the time in POTW influents. Table 10 summarizes the data presented in Appendix B. In Table 10, percent removals are presented for two subgroups of analytical data: removals where the priority pollutant average influent concentration was greater than zero, and removals when the plant

TABLE 10

SUMMARY OF MINIMUM PERCENT REMOVALS[1] ACHIEVED BY SECONDARY TREATMENT

	Average Influent > 0					Average Influent > Lower Limit[3]		
		Percent of Plants					Percent of Plants	
Parameter	N[2]	50	75	80	90	N	50	Lower Limit (ug/l)[4]
BOD	40	91	82	81	77	40	91	None
TSS	40	88	84	78	72	40	88	None
Toluene	40	96	88	86	70	25	97	20
Tetrachloroethylene	40	85	67	56	30	21	87	20
Methylene Chloride	40	56	29	27	3	24	55	20
Bis (2-ethylhexyl) Phthalate	40	58	34	32	15	27	63	20
Chloroform	40	62	40	23	11	8	62	20
Trichloroethylene	40	97	87	85	72	25	97	20
1,1,1-Trichloroethane	38	94	85	84	80	23	91	20
Ethylbenzene	39	99+	91	90	86	12	97	20
Phenol	38	99	93	89	46	9	99	20
Di-N-Butyl Phthalate	38	51	13	5	4	4	97	20
1,2-trans-Dichloroethylene	32	99+	96	94	79	4	97	20
Benzene	32	99+	83	74	66	5	99	20
Butyl Benzyl Phthalate	35	99+	97	95	40	3	97	20
Diethyl Phthalate	31	99+	84	74	67	1	96	20
Napthalene	29	99+	99+	98	85	4	99	20
Zinc	40	77	64	55	44	40	77	80
Cyanide	40	59	36	33	5	40	59	4
Copper	40	82	58	56	46	40	82	8
Chromium	40	76	66	64	48	35	76	20
Nickel	36	35	18	17	8	22	32	40
Silver	36	95	82	79	66	2	94	20
Mercury	35	86	65	61	25	9	86	800
Lead	34	97	74	58	35	3	81	200
Cadmium	29	93	46	39	4	12	92	8

(1) Removals based on average influent and effluent concentration.
(2) N = Number of plants meeting average influent criteria.
(3) Lower limit chosen significantly above (approximately 4 times) the parameter's detection limit.
(4) Mercury in ng/l

average influent concentration was significantly above the pollutant's detection limit. For the purposes of Table 10, "significantly above the detection limit" was defined as four times the most frequent detection limit. This minimizes the effect of the detection limit on calculating percent removals. The number of data points for each subgroup is indicated by N. Minimum percent removals and effluent levels can be read directly from Appendix B for any desired percent of POTWS in the data base.

Table 10 shows that 50 percent of the POTWs sampled achieved minimum priority pollutant metal removals ranging from 35 percent to 97 percent. For the selected organic priority pollutants 50 percent of the POTWs achieve minimum removals of 51 percent to over 99 percent. Many of the organic removal rates that are close to 100 percent occur primarily because the average pollutant concentration in the influent was slightly above that pollutant's detection limit and the pollutant was not detected in the effluent sample. This is illustrated in Table 10 by comparing the number of sample points between the two different subgroups. For many of the organic pollutants, there were an insufficient number of meaningful data sets to draw accurate conclusions about pollutant removal rates.

Figures 5 and 6 present cumulative distributions for the four major priority pollutant fractions. These curves summarize the data presented in Appendix B and Table 10. In Figures 5 and 6 and Table 10, all values reported as "not detected" or assumed to be "not detected" were averaged as 0 in both influent and effluent samples. This procedure will slightly overstate removal of pollutants near their detection limit in the influent, but these cases have minimum impact on the median removals and percentile removals presented.

It is important to note that the data in the above analyses only indicate the reduction of a pollutant from the influent to the secondary effluent at POTWs. They do not indicate that the pollutant has been treated by the POTW, but has only been removed by one of the many removal mechanisms possible (biodegredation, adsoprtion, clarification, air stripping, etc.). Estimates of the ultimate fate of these pollutants are best obtained from the mass balance tables presented in a subsequent section.

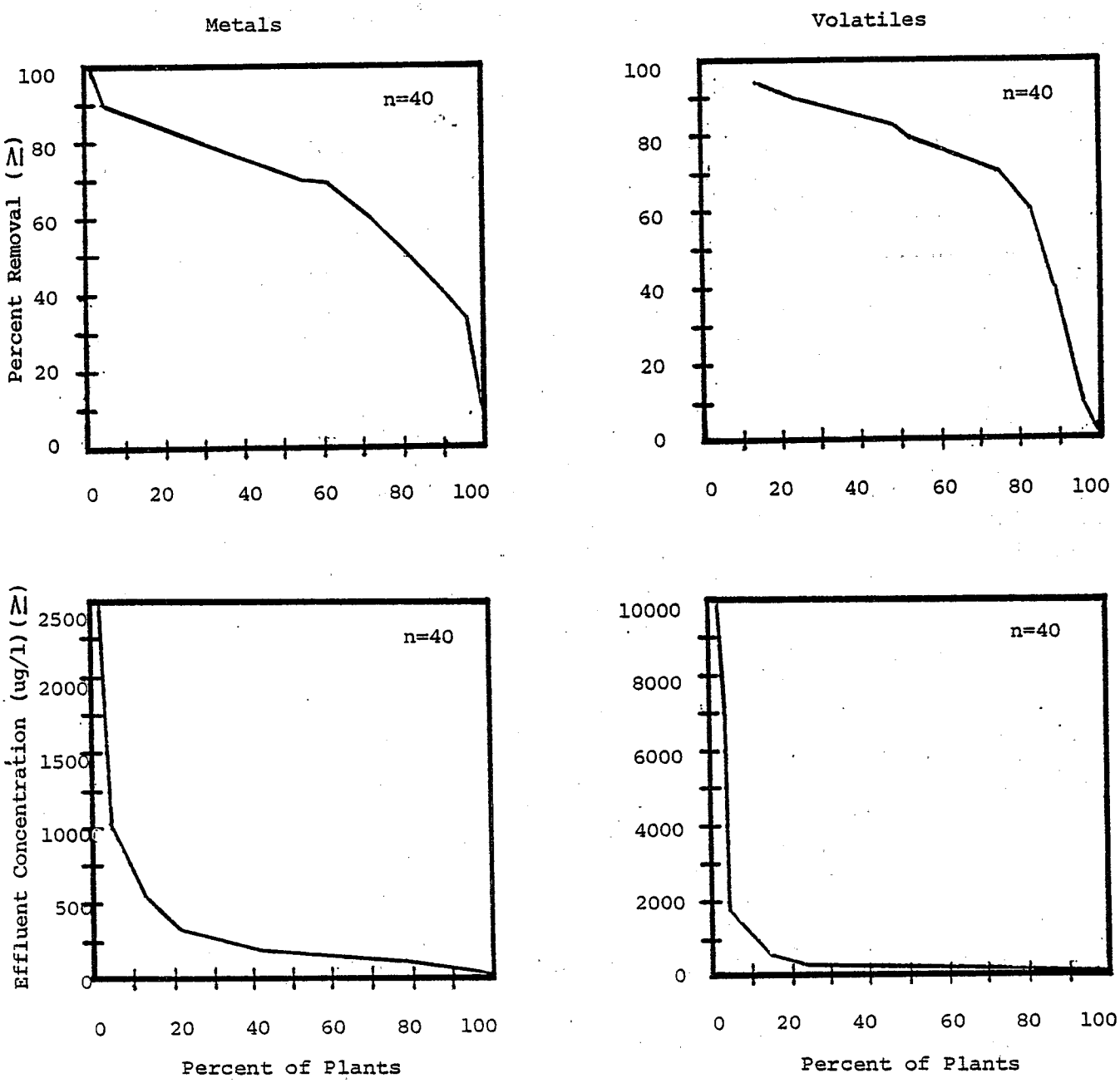
REDUCTION OF PRIORITY POLLUTANTS BY POTW TREATMENT PROCESSES

Table 11 summarizes the median removals for selected conventional and priority toxic pollutants by the various types of treatment plants sampled in the 40 POTW study. The types of treatment plants are activated sludge plants, trickling filter plants, pure oxygen activated sludge plants, an RBC plant, an aerated lagoon and four treatment plants that have both activated sludge processes and trickling filters in parallel modes. POTW 8, which

FIGURE 5

CUMULATIVE DISTRIBUTION CURVES

TOTAL METALS AND TOTAL VOLATILES EFFLUENT CONCENTRATION
AND PERCENT REMOVAL

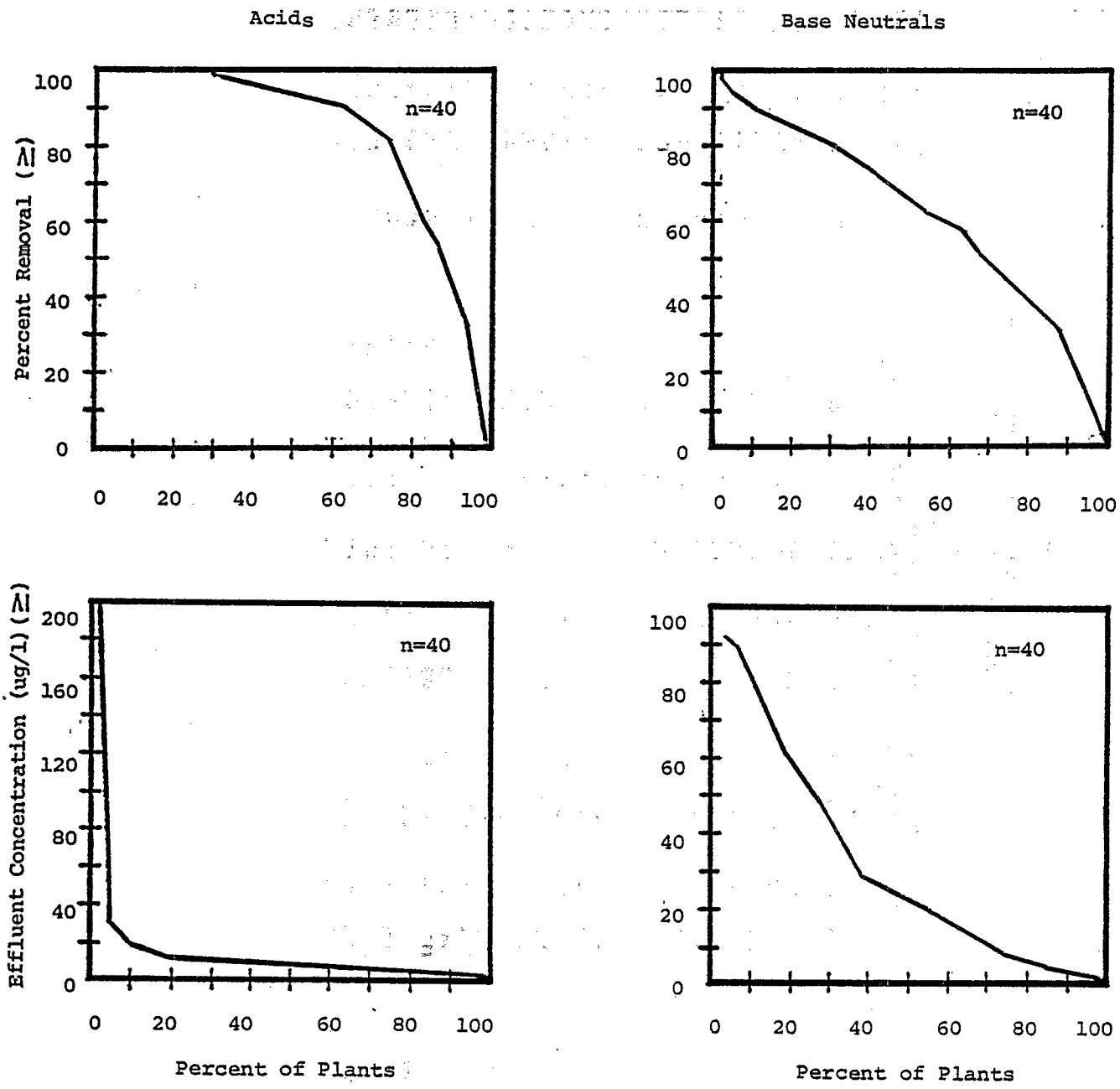


NOTE: n = number of plants with average influent concentration greater than zero

FIGURE 6

CUMULATIVE DISTRIBUTION CURVES

TOTAL ACIDS AND TOTAL BASE NEUTRALS EFFLUENT CONCENTRATION AND PERCENT REMOVAL



NOTE: n = number of plants with average influent concentration greater than zero

TABLE 11

MEDIAN PERCENT REMOVALS OF SELECTED POLLUTANTS
THROUGH POTW TREATMENT PROCESSES

PARAMETER	PRIMARY		SECONDARY ACT. SLUDGE *		SECONDARY TR. FILTER		SECONDARY O_2 ACT. SLUDGE		SECONDARY RBC		SECONDARY AER LAGOON		PARALLEL AS/TF PLANTS * A.S. SIDE		PARALLEL AS/TF PLANTS * T.F. SIDE		TERTIARY M.M. FILT. & POL. PONDS	
BOD	(12)	19	(22)	90	(5)	77	(3)	91	(1)	92	(1)	80	(4)	92	(4)	82	(8)	93
TOTAL SUSP. SOLIDS	(12)	45	(22)	90	(5)	78	(3)	84	(1)	58	(1)	77	(4)	94	(4)	91	(8)	94
CADMIUM	(6)	15	(6)	85	(1)	11	(2)	83	(0)	-	(1)	44	(2)	91	(2)	84	(3)	78
CHROMIUM	(12)	27	(22)	84	(3)	48	(3)	76	(0)	-	(1)	49	(4)	75	(4)	63	(8)	89
COPPER	(12)	22	(22)	84	(5)	49	(3)	92	(1)	97	(1)	21	(4)	89	(4)	75	(8)	90
CYANIDE	(12)	27	(22)	62	(5)	57	(3)	80	(1)	96	(1)	7	(4)	66	(4)	68	(3)	57
LEAD	(1)	57	(2)	82	(1)	20	(1)	97	(0)	-	(1)	0	(0)	-	(0)	-	(1)	81
MERCURY	(8)	10	(8)	76	(2)	56	(3)	83	(0)	-	(1)	0	(2)	91	(2)	49	(5)	78
NICKEL	(9)	14	(15)	34	(2)	47	(2)	18	(0)	-	(1)	14	(4)	34	(4)	0	(5)	39
SILVER	(4)	20	(5)	83	(2)	55	(2)	80	(0)	-	(1)	0	(2)	79	(2)	83	(1)	75
ZINC	(12)	27	(22)	81	(5)	43	(3)	81	(1)	81	(1)	51	(4)	82	(4)	73	(8)	84
BENZENE	(8)	25	(10)	77	(3)	80	(2)	87	(0)	-	(0)	-	(1)	92	(1)	92	(1)	99
BIS(2-ETHYLHEXYL) PHTHALATE	(12)	0	(8)	62	(5)	24	(3)	64	(1)	86	(1)	23	(4)	87	(4)	72	(8)	65
BUTYL BENZYL PHTHALATE	(4)	62	(2)	94	(1)	70	(3)	84	(0)	-	(1)	93	(1)	80	(1)	93	(3)	86
CHLOROFORM	(11)	14	(20)	62	(5)	75	(3)	50	(0)	-	(0)	-	(3)	75	(4)	69	(7)	41
DI-N-BUTYL PHTHALATE	(3)	36	(6)	68	(5)	50	(1)	98	(0)	-	(1)	50	(1)	97	(3)	50	(0)	-
DIETHYL PHTHLATE	(1)	56	(2)	91	(0)	-	(0)	-	(0)	-	(0)	-	(0)	-	(0)	-	(0)	-
ETHYLBENZENE	(12)	13	(10)	90	(5)	90	(3)	86	(0)	-	(1)	83	(3)	97	(4)	89	(7)	86
METHYLENE CHLORIDE	(12)	0	(14)	48	(5)	76	(3)	34	(0)	-	(1)	96	(4)	52	(4)	32	(8)	78
NAPHTHALENE	(4)	44	(6)	92	(0)	-	(0)	-	(0)	-	(0)	-	(0)	-	(0)	-	(4)	84
PHENOL	(11)	8	(15)	89	(0)	-	(3)	99+	(1)	99+	(1)	50	(3)	89	(3)	94	(6)	95
TETRACHLOROETHYLENE	(12)	4	(20)	82	(5)	82	(3)	75	(1)	50	(1)	91	(4)	76	(4)	62	(8)	94
TOLUENE	(12)	0	(21)	93	(5)	88	(3)	99+	(1)	99+	(1)	89	(4)	97	(4)	93	(8)	98
TRICHLOROETHYLENE	(12)	20	(20)	90	(5)	96	(2)	67	(1)	67	(1)	97	(4)	97	(4)	95	(7)	97
1,1,1-TRICHLOROETHANE	(10)	40	(17)	88	(5)	92	(3)	80	(0)	-	(1)	91	(3)	99+	(3)	91	(7)	96
1,2-TRANS-DICHLOROETHYLENE	(9)	36	(19)	80	(4)	97	(2)	85	(0)	-	(1)	88	(0)	-	(0)	-	(3)	88

* POTW 8, which is predominantly (96 percent) activated sludge, was included in the activated sludge plants.

Note: Number in ( ) is number of plants with calculated removals.
Only plants with average influent concentrations greater than three times the most frequent detection limit of each pollutant are included in removal calculations.

has an activated sludge process that treats 96 percent of influent flow and trickling filters that treat 4 percent of influent flow was included with the activated sludge plants. At plants where primary or tertiary effluent was sampled, removals by those treatment processes are also indicated. Several plants were excluded from this data base because they consisted of a combination of fixed and suspended growth biological treatment in series.

Table 11 shows that among the treatment plants examined, trickling filters, activated sludge, the RBC, and the pure oxygen systems achieved good removals of conventional pollutants and most of the measurable priority pollutants. At those plants that had activated sludge and parallel trickling filtration plants, the activated sludge plant appeared to remove slightly more priority pollutant metals and organics than the trickling filter plants. However, for some parameters the trickling filter plants achieved higher removal rates.

Primary treatment was less effective than any secondary treatment for conventional and priority pollutant removal. It should be noted that the primary effluent samples from this study may not be representative of primary treatment plants. The major reason is that secondary treatment plants generate a much greater volume of sludge than primary treatment plants, and many of the sludge processing side streams are returned to the primary tanks. This often causes the influent to the primary tanks to be much higher in organic loading than the influent to a typical primary treatment plant. Nevertheless, primary treatment removed from 10 percent to 57 percent of priority pollutant metals and from 0 percent to 56 percent of the priority pollutant organics, based on the plant influent and the primary effluent. Tertiary treatment was slightly more effective than average secondary treatment for removing conventional and priority pollutants based on eight plants that had either mixed media filtration or polishing ponds.

POTW PRIORITY POLLUTANT MASS BALANCES

As indicated in Section V, mass balances for conventional, selected non-conventional and priority pollutants are included in Appendix E. These mass balance tables should, in theory, show the same pounds entering the plant as leaving it for conservative pollutants such as metals which cannot be degraded but settle out in sludges or remain in the water stream. On the other hand, pollutants which are degraded, stripped into the atmosphere or otherwise removed from the water and sludge streams should show a lower mass exiting the plant than entering in the influent. Due to possible inaccuracies in the sludge flow information obtained from the plants and/or analytical inaccuracies in the sludge analyses, good mass balances for the conservative pollutants could not be developed for several of the POTWs. However, Table 12 summarizes the mass balances for 6 POTWs where the percent dif-

TABLE 12

MASS BALANCE SUMMARY
(Pounds Per Day)

Plant	Metals[1]			Volatiles			Acid Extractables			Base Neutrals		
	In	Out	%	In	Out	%	In	Out	%	In	Out	%
2	30.5	28.1	-8	2.5	1.7	-32	.2	1.4	+600	2.5	1.4	-44
11	281.5	270.7	-4	159.3	19.2	-88	5.2	.2	-96	26.0	25.3	-3
20	695.8	613.3	-12	263.2	43.9	-83	10	2.2	-78	56.9	35.6	-37
26	1051.6	1030.0	-2	259.9	69.5	-73	1.5	1.0	-33	150.4	165.3	+10
32	48.3	53.5	+11	995.1[2]	865.8[2]	-13	0	.2	-	77.6	9.5	-88
36	398.0	397.2	-.2	972.0	41.3	-96	162.8	12.4	-92	82.4	37.5	-55

(1) Excluding Cyanide.
(2) Methylene Chloride accounted for 969 lbs/day In and 859 lbs/day Out.

ference between the pounds of total metals in the incoming and outgoing streams were reasonably close. For these six plants, it is assumed that the balances for all other pollutants should be equally accurate.

Table 12 shows that deviation from total priority pollutant metal mass balances range between a gain of 11 percent and a loss of 12 percent. Volatile pollutants were always lost and ranged from 13 percent lost to 96 percent lost. It should be noted that the smallest loss, at POTW 32, was abnormally influenced by methlyene chloride values which accounted for over 95 percent of both the incoming and outgoing balance. By looking at the daily data tables for POTW 32, it appears that some laboratory or other contamination was experienced. The mass balance for base neutral pollutants ranged from a 10 percent gain to an 88 percent loss. The acid extractables were found too infrequently and at such low levels that meaningful conclusions were difficult to draw.

The results discussed above support the concept that metals are conservative in a treatment process while organics are either biodegraded or otherwise lost. The greater loss of volatile priority toxic pollutants compared to the base neutrals or total organic priority pollutants, also supports the idea that volatiles may be stripped out of the wastewater during aeration in addition to being biodegraded.

DAILY VARIATION OF INFLUENT POLLUTANT CONCENTRATIONS

Table 13 presents the daily average concentration of selected conventional, non-conventional and priority pollutants as well as the total priority pollutant fractions in POTW influent samples. With the exception of Sundays, at least one 24-hour composite influent sample was taken for each day of the week at 38 of the 40 POTWs. Sunday samples were only taken at four of the 40 POTWs (see Section IV).

Table 13 does not reveal any particular concentration trend among the five working days. None of these five days of the week showed a consistently high or lower concentration of the priority pollutant fractions of most individual pollutants. However, for every toxic pollutant fraction, as well as all priority pollutants metals and the conventional parameters indicated, the Monday through Friday average concentration was always higher than the Saturday or Sunday average. The Sunday data should be viewed cautiously because of the abbreviated data base it represents. One discrepancy in Table 13 is that the volatile pollutant concentration on Saturday is much higher than the sum of the individual volatile pollutants listed for Saturday. This was caused primarily by a pollutant (1,2-dichloroethane) not listed in Table 13, but which accounted for an average concentration of over 800 μg/l over the 40 plant data even though it was infrequently detected.

TABLE 13

DAILY AVERAGE CONCENTRATIONS OF POLLUTANTS IN POTW INFLUENTS

Parameter	Units	Day of the Week							Average Mon-Fri
		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday(1)	
BOD	MG/L	226	231	225	215	208	185	120	221
COD	MG/L	502	538	535	689	544	430	242	561
Total Phenols	UG/L	331	308	285	417	483	344	32	364
Cadmium	UG/L	38	29	44	37	57	28	2	41
Chromium	UG/L	153	195	201	229	205	73	34	196
Copper	UG/L	229	259	268	242	225	136	65	244
Cyanide	UG/L	484	636	605	569	641	566	29	587
Lead	UG/L	99	88	86	153	124	47	25	110
Mercury	NG/L	553	505	674	682	566	327	400	596
Nickel	UG/L	86	99	87	267	82	97	21	124
Silver	UG/L	11	9	11	10	9	3	0	10
Zinc	UG/L	820	674	773	848	801	436	164	783
Benzene	UG/L	10	24	33	15	25	15	3	21
Bis-(2-ethylhexyl) Phthalate	UG/L	53	47	37	38	50	46	18	45
Butyl Benzyl Phthlate	UG/L	10	9	7	13	20	8	3	11
Chloroform	UG/L	21	17	16	16	18	10	7	17
Di-N-Butyl Phthalate	UG/L	5	10	10	8	11	9	7	8
Diethyl Phthalate	UG/L	5	4	3	3	3	3	3	3
Ethylbenzene	UG/L	13	17	24	20	23	30	42	19
Methylene Chloride	UG/L	334	155	949	73	1308	289	10	563
Naphthalene	UG/L	9	6	9	7	8	3	1	7
Phenol	UG/L	60	58	40	62	72	40	2	58
Tetrachloroethylene	UG/L	78	55	95	125	64	44	3	83
Toluene	UG/L	135	192	349	418	157	64	7	250
Trichloroethylene	UG/L	103	51	62	194	208	151	4	123
1,1,1-Trichloroethane	UG/L	67	89	815	233	84	44	2	257
1,2-trans-Dichloroethylene	UG/L	5	3	6	11	8	7	1	6
Total Metals(2)	UG/L	1994	1865	2152	2476	2074	1153	711	2109
Total Volatiles	UG/L	1337	1206	3010	1312	3061	1661	80	1975
Total Acids	UG/L	72	67	61	78	79	53	2	70
Total Base Neutrals	UG/L	105	92	97	89	216	79	35	113

(1) Sunday samples were collected at 4 of the 40 POTWs.
(2) Excludes Cyanide.
(3) Pollutants detected greater than 50 percent of time.

EFFECT OF RAINFALL ON INFLUENT CONCENTRATIONS

During the week of sampling at 14 of the 40 POTWs, at least one day of heavy rainfall occurred. Table 14 presents the influent total priority pollutant metals loadings at these plants before and after the rainfall day and the average of all other days' loadings. The type of sewer system in each of these plants is also presented. Although there are many factors than can affect these data (weather prior to the sampling episode, infiltration/inflow problems, whether rainfall occurred on weekdays or weekends, etc.), there is a clear tendency shown for metals loadings to be highest on the days of and following rainfall than compared to the other periods. The peak flow occurred either during the day of rainfall or on the day after. Peak flow may occur on the day following rainfall because of either the detention time in the sewer system, which was not documented, or the rainfall may have occurred near the end of the sampling period. At several of the plants in Table 14, it was raining on the first day of sampling so no preceding dry weather periods could be included in the averages of other days.

Table 15 presents a similar analysis for lead only. It was anticipated that lead would show this same tendency because of its widespread use in gasoline and the deposition of lead particles on pavement. As can be seen from Table 15, the same trends were indicated for lead as were indicated for the total metal pollutants.

It should be noted that the data on Tables 14 and 15 are only an indication of the effects of rainfall. There were many interfering factors with this analysis, such as light rainfall during sampling periods which was unrecorded at the treatment plant, or multiple days of rainfall during the six day sampling period. In these latter cases, only the first heavy rainfall was used and subsequent days were averaged as other days. In all cases for the rainfall analysis, pollutants measured below their detection limit in the influent were averaged as 0.

FORMATION OF CHLORINATED HYDROCARBONS

Table 16 presents a summary of occurrences where the secondary or tertiary chlorinated effluent had a higher concentration of a chlorinated hydrocarbon than the corresponding pre-chlorinated secondary effluent. Inconsequential data points were excluded from consideration by requiring that the post-chlorinated sample have a larger measured concentration than the pre-chlorinated sample's. Furthermore, some control tests run on some frequently occurring non-chlorinated compounds indicated that random variation would account for a pollutant being higher in the effluent than in the influent in approximately 25 percent of the cases where it was detected. Consequently, Table 16 only presents pollutants which exceeded the number of occurrences that might have been predicted by random variation.

TABLE 14

EFFECT OF RAINFALL
ON INFLUENT TOTAL METALS LOADING

(Pounds per Day)

PLANT NO.	SEWER TYPE	FIRST DAY OF HEAVY RAINFALL DURING SAMPLING PERIOD	DAY AFTER HEAVY RAINFALL	AVERAGE OF ALL OTHER DAYS
4	50% Combined	1286 (1)	392	396 (3)
6	Separate	708 (1)	335	547
9	Combined	197	102	204
13	85% Combined	94 (2)	66	52 (3)
14	Combined	167	174	138 (3)
18	Combined	824	250	268
22	Separate	300 (1)	315	252 (3)
23	Separate	75 (1)	162	103 (3)
26	67% Combined	1346 (1)	994	993 (3)
27	Separate	1305 (1)	2001	1263 (3)
32	Separate	82	58	40
34	Separate	193 (2)	1104	85
35	25% Combined	107	163	88
36	10% Combined	605	498	329

(1) Rainfall occurred during first day of sampling
(2) Heavy rains preceded the sampling episode
(3) Additional rainfall occurred after first day of heavy rain

TABLE 15

EFFECT OF RAINFALL
ON INFLUENT LEAD LOADING

(Pounds per Day)

PLANT NO.	SEWER TYPE	FIRST DAY OF HEAVY RAINFALL DURING SAMPLING PERIOD	DAY AFTER HEAVY RAINFALL	AVERAGE OF ALL OTHER DAYS
4	50% Combined	216 (1)	54	63 (3)
6	Separate	18 (1)	5	12
9	Combined	48	30	39
13	85% Combined	14 (2)	8.0	6.0 (3)
14	Combined	4	0	0 (3)
18	Combined	234	68	43
22	Separate	27 (1)	40	32 (3)
23	Separate	0 (1)	0	3 (3)
26	67% Combined	247 (1)	141	0 (3)
27	Separate	0 (1)	0	0 (3)
32	Separate	10	6.0	3
34	Separate	22 (2)	18	16
35	25% Combined	0	38	0
36	10% Combined	57	66	42 (3)

(1) Rainfall occurred during first day of sampling
(2) Heavy rains preceded the sampling episode
(3) Additional rainfall occurred after first day of heavy rainfall

TABLE 16

FORMATION OF CHLORINATED HYDROCARBONS
DURING CHLORINE DISINFECTION

Parameter	Number of Occurrences	Average Concentration Pre-Chlorinated	Post-Chlorinated
Chloroform	39	2 ug/l	10 ug/l
Dichlorobromomethane	27	1 ug/l	7 ug/l
Chlorodibromomethane	13	1 ug/l	8 ug/l
Gamma-BHC	25	62 ng/l	147 ng/l

Note: Only instances where post-chlorinated sample had larger measured value than pre-chlorinated sample are included.

Chloroform increased in concentration through the chlorination process in 39 instances. The average pre-chlorinated concentration was 2 ug/l for these occurrences, and the average chlorinated effluent was 10 ug/l. For dichlorodibromomethane, there were 27 instances where it increased (from 1 ug/l to 7 ug/l, average). Chlorodibromomethane and gamma-BHC also increased significantly more often than can be explained by random variation.

POLLUTANTS DETECTED IN SLUDGES WHEN NOT MEASURED IN THE INFLUENT

Table 17 presents a summary of the priority pollutants that were detected in one or more sludge streams but were not detected in the corresponding influent sample. In many cases this occurs because the influent concentrations were too low to be measured, but the pollutant may have concentrated sufficiently in the sludge stream to be quantified. For example, arsenic and antimony were both detected in less than 15 percent of all POTW influent samples. However, both were detected consistently in sludge streams. Arsenic was detected 110 times in a primary sludge at an average concentration of 186 ug/l when it was not detected in the influent. It was also detected 84 times in combined sludges (384 ug/l average) and 99 times in secondary sludges (77 ug/l) when not detected in the influent.

The significance of Table 17 is that several pollutants only infrequently measured in POTW influents may, in fact, be frequently present in the influent at levels below their detection limit.

CORRELATION OF INFLUENT AND EFFLUENT CONCENTRATIONS

For all of the priority pollutants that occurred in over 50 percent of the influent samples, the correlation between plant average influent concentration and effluent concentration was tested. Table 18 presents the results for these pollutants as well as for BOD and TSS. For all of the metals on Table 18, the slope of the line computed by the least squares fit was between 0.02 and 0.325 indicating that the majority of an incremental increase in influent concentration is removed by the POTW and does not pass through to the effluent. Interestingly, the highest slope was obtained for nickel, which also had the lowest median removal of the heavy metals (see Table 10).

The organic priority pollutants exhibited the same trend as the metals. The correlation coefficients ranged between 0.059 and 0.977. The slopes of the best fit line ranged between 0.003 and 0.860. These slopes also indicate that the majority of most organic priority pollutants are removed by the secondary treatment process at the 40 POTWs.

Based on the data in Table 18 it is reasonable to conclude that for many priority pollutants an increase in the influent con-

TABLE 17

SUMMARY OF PRIORITY POLLUTANT OCCURRENCE
IN SLUDGE WHEN NOT DETECTED IN INFLUENT

PARAMETER (1)	NO. TIMES DETECTED IN ANY SLUDGE STREAM (2) WHEN NOT MEASURED IN POTW INFLUENT	AVERAGE CONCENTRATION IN PRIMARY SLUDGE (2)		AVERAGE CONCENTRATION IN SECONDARY SLUDGE (2)		AVERAGE CONCENTRATION IN COMBINED SLUDGE (2)		AVERAGE CONCENTRATION IN TERTIARY SLUDGE (2)	
ARSENIC	181	186	(110)	77	(99)	384	(84)	83	(2)
ANTIMONY	177	141	(109)	54	(78)	422	(80)	6	(2)
SELENIUM	166	73	(90)	25	(79)	107	(81)	6	(2)
PYRENE	145	146	(70)	59	(59)	257	(66)	213	(3)
PHENANTHRENE	137	245	(75)	389	(38)	531	(56)	469	(3)
ANTHRACENE	128	245	(70)	467	(31)	559	(53)	469	(3)
FLUORANTHENE	120	140	(61)	61	(43)	451	(53)	240	(3)
CHRYSENE	95	229	(37)	34	(28)	215	(49)	57	(3)
CADMIUM	93	256	(44)	112	(63)	275	(48)	16	(2)
LEAD	86	7703	(42)	2733	(53)	5987	(47)	1600	(2)
1,2-BENZANTHRACENE	77	248	(32)	23	(23)	223	(39)	57	(3)
BENZENE	73	13	(50)	2	(27)	131	(24)	1	(2)
SILVER	59	350	(34)	297	(28)	402	(21)	110	(1)
1,1-DICHLOROETHANE	58	66	(35)	12	(10)	91	(21)	-	(0)
BUTYL BENZYL PHTHALATE	55	1082	(30)	283	(7)	809	(21)	-	(0)
1,2-TRANS-DICHLOROETHYLENE	54	400	(44)	29	(13)	984	(13)	-	(0)
DI-N-BUTYL PHTHALATE	53	460	(34)	64	(14)	608	(19)	12	(1)
BERYLLIUM	52	42	(25)	29	(9)	37	(33)	-	(0)
MERCURY	46	67	(23)	27	(28)	144	(16)	-	(0)
1,1,2,2-TETRACHLOROETHANE	45	475	(25)	15	(18)	31	(16)	-	(0)
1,4-DICHLOROBENZENE	44	212	(26)	44	(8)	176	(18)	-	(0)
1,2-DICHLOROBENZENE	42	246	(29)	42	(9)	339	(13)	-	(0)
NAPHTHALENE	40	155	(22)	116	(9)	373	(15)	340	(1)
NICKEL	40	3637	(28)	2144	(15)	6057	(12)	290	(2)
PHENOL	38	516	(21)	248	(23)	899	(15)	-	(0)
CHLOROBENZENE	37	17	(20)	5	(7)	150	(16)	-	(0)
ETHYLBENZENE	35	115	(25)	4	(7)	418	(15)	-	(0)
1,3-DICHLOROBENZENE	34	177	(24)	48	(5)	559	(9)	-	(0)

(1) All concentrations are in ug/l.
(2) When not detected in corresponding influent.

Note: Values in ( ) are number of occurrences.

TABLE 18

CORRELATION OF INFLUENT AND EFFLUENT CONCENTRATION

Parameter	Correlation Coefficient	Slope of Best Fit Line(1)	Intercept
BOD	.374	.069	10.4
TSS	.182	.024	17.7
Cadmium	.966	.060	1.2
Chromium	.402	.059	25.3
Copper	.536	.072	24.7
Cyanide	.102	.020	152.6
Lead	.354	.050	10.8
Mercury	.329	.130	71.4
Nickel	.795	.325	26.1
Silver	.523	.150	-0.1
Zinc	.855	.256	-15.8
Benzene	.082	.004	1.0
Bis(2-ethylhexyl) Phthalate	.669	.347	7.1
Butyl Benzyl Phthalate	.207	.011	0.6
Chloroform	.837	.392	0.9
Di-N-Butyl Phthalate	.243	.081	2.8
Diethyl Phthalate	.476	.075	0.1
Ethylbenzene	.558	.037	0.4
Methylene Chloride	.977	.860	-73.5
Naphthalene	.589	.059	-0.1
Phenol	.287	.009	1.2
Tetrachloroethylene	.966	.151	2.0
Toluene	.059	.003	11.3
Trichloroethylene	.899	.110	-1.1
1,1,1-Trichloroethylene	.996	.130	0.2
1,2-Trans-Dichloroethylene	.444	.091	0.2

(1) Least-Squares Regression (Effluent Concentration is the Dependent Variable)

centration will result in an increase in the effluent concentration. In many cases, the effluent increase is close to 1-removal rate for that pollutant. Using zinc as an example, the data on Table 18 indicate that the effluent zinc concentration can be predicted by:

$$C_{effluent} = (0.256)\ C_{influent} - 15.8 \text{ (in ug/l)}$$

For an influent concentration of 723 ug/l (the average of the 40 POTW averages) an effluent of 169 ug/l is predicted. Alternately, using the median removal for zinc of 77 percent from Table 10, an effluent of 166 ug/l (723 x (1-.77)) is predicted for the same influent concentration.

For several pollutants on Table 18, the high correlation coefficients also imply that the influent concentration is the single most important predictor of the effluent concentration. The importance of this relationship is that the percentage removal of pollutants at POTWs is not significantly dependent upon the influent concentration, but is relatively constant over the range of concentrations experienced in this study.

DISCUSSION OF 10-PLANT STUDY RESULTS

The initial 40 POTWs included in this study were specifically selected to obtain a cross-section of secondary treatment processes reflected in the 1978 EPA Needs Survey. These POTWs vary in treatment capacity, influent characteristics, and industrial flows. POTWs 51 to 60 were selected as examples of POTWs that serve one primary industry or industrial category. The prominent industries that discharge to these 10 POTWs distinguishes this group of treatment plants from those represented in the 40 POTW survey. For this reason, the results from the 10 POTWs are not included in any of the summary evaluations. Instead, the 10 POTW data base is reviewed separately from the 40 POTW study.

Table 1 presents a summary of the biological treatment processes, design flows, actual flows (the average six day flow volumes observed during the respective sample episodes), estimated percent industrial flow and a listing of the major industrial categories for the 10 POTWs. Percent industrial flows varied from less than one percent at POTW 52 to greater than 60 percent at POTW 55. At five of the POTWs included in the 10 POTW data base (POTWs 52, 54, 55, 57, and 60), samples were also collected at the dominant contributing industry during two of the six sampling episodes. Selected pollutant mass contributions from the industrial dischargers can thus be compared with the pollutant mass of the influent, secondary effluent, and sludge streams sampled. Tables 19 through 28 present the average influent mass, secondary effluent mass (or tertiary effluent mass if applicable), appropriate percent removals, dominant industrial discharger mass (if sampled), and percentage of mass attributable

to the dominant industrial discharger for each of the 10 POTWs. Data results presented in these tables are for selected conventional and nonconventional pollutants as well as priority pollutants detected in the influent waste stream greater than 50 percent of the time.

The dominant industry that discharges to POTW 51 is the gum and wood chemical industry. Benzene, toluene, ethylbenzene, phenol, copper, chromium, nickel and zinc are the priority pollutants most often detected in the wastewaters discharged by the gum and wood chemicals industry. Toluene is the primary solvent used throughout the industry while benzene and ethylbenzene may be present as a result of contaminating toluene and xylene, respectively. A number of the metals are used as catalyst in various processes.

A total of 29 priority pollutants were detected at least once during the six-day sampling effort in the influent waste stream compared to 17 priority pollutants detected in the secondary effluent waste stream. Bis(2-ethylhexyl)-phthalate, chloroethane, and toluene were the organic priority pollutant parameters detected at the highest concentration in the influent; zinc, copper, lead, chromium, nickel, mercury, and arsenic were the priority pollutant metals detected 100 percent of the time in not only the influent, but also in the secondary effluent, primary sludge, secondary sludge and heat treatment supernatant recycle line.

Treatment efficiencies were good overall, with the exception of chloroethane. The chloroethane concentrations at the chlorinated secondary effluent location were greater than the influent concentration during five of the six sampling periods; average concentrations also indicated an increase in the chloroethane concentration after treatment. In contrast, toluene (another volatile organic priority pollutant) was not detected in the secondary waste stream. The mass balance table for POTW 51 in Appendix E shows that the seven metals listed above tend to concentrate in the primary sludge.

POTW 52 had the lowest average flow (1.1 MGD) of the 50 POTWs sampled. The effluent waste stream from a wood preserving plant that discharges to POTW 52 was also sampled during this sampling effort. The effluent waste stream from the wood preserving plant was a low volume (5,000 gpd) waste stream but contained the following priority toxic pollutants at the listed concentrations:

benzene	185 µg/l
toluene	230 µg/l
2,4,6-trichlorophenol	250 µg/l
2,4-dimethylphenol	3,950 µg/l
2-nitrophenol	215 µg/l
pentachlorophenol	2,350 µg/l

TABLE 19

COMPARISON OF INFLUENT AND SECONDARY EFFLUENT POLLUTANT MASSES

POTW 51

Fraction	Parameter	Influent lbs/day	Secondary Effluent lbs/day	Secondary Effluent % Removal
Conventional/ Nonconventinal	BOD	98,309	1,199	99
	TSS	167,213	2,998	98
	COD	285,491	20,061	93
	Oil & Grease	12,947	2,671	79
*Volatiles	Benzene	2.2	ND	100
	Chloroethane	137	207	NR
	Chloroform	6.0	3.5	42
	Ethylbenzene	8.4	1.0	88
	Methylene Chloride	12.2	4.8	61
	Toluene	93.3	ND	100
	1,1,1-Trichloroethane	1.9	ND	100
	Tetrachloroethylene	7.3	ND	100
	Trichloroethylene	3.6	ND	100
	1,2-Trans-Dichloroethylene	1.7	ND	100
*Base-Neutrals	Bis(2-Ethylhexyl)Phthalate	143	63.1	56
	Di-N-Octyl Phthalate	7.8	2.0	74
	Diethyl Phthalate	3.1	0.6	81
*Metals	Chromium	52.4	5.1	90
	Copper	109	6.3	94
	Lead	64	4.5	93
	Mercury	0.5	ND	100
	Nickel	15.1	2.0	87
	Silver	14.6	0.5	97
	Zinc	265	43.4	84
	Arsenic	0.4	0.2	50

ND = Not Detected
NR = No Removal
* = Pollutants detected in influent greater than 50 percent of time.

TABLE 20

COMPARISON OF INFLUENT, SECONDARY EFFLUENT
AND PRIMARY INDUSTRIAL EFFLUENT POLLUTANT MASSES

POTW 52

Fraction	Parameter	Influent lbs/day	Secondary Effluent lbs/day	Secondary Effluent % Removal	Primary Industrial Contributor[1] lbs/day	Primary Industrial Contributor[1] % of Influent Mass
Conventional/ Nonconventional	BOD	1,624	479	71	57	4
	TSS	951	257	73	15	2
	COD	2,200	888	60	415	19
	Oil & Grease	295	231	22	0.8	<1
*Volatiles	Toluene	0.1	<0.1	NA	<0.1	NA
	Chlorobenzene	<0.1	<0.1	NA	<0.1	NA
	Tetrachloroethylene	<0.1	ND	100	<0.1	NA
	Trichloroethylene	<0.1	<0.1	NA	<0.1	NA
*Base Neutrals	Acenaphthene	0.4	0.1	75	0.9	100
	Fluroanthene	0.3	0.2	33	0.64	100
	Di-N-Butyl Phthalate	0.4	0.2	50	<0.1	NA
	Anthracene	2.5	<0.1	>96	1.42	57
	Fluorene	0.4	<0.1	>75	<0.1	<25
	Phenanthrene	2.2	<0.1	>95	0.16	7
	Pyrene	0.1	<0.1	NA	<0.1	NA
	Bis(2-Ethylhexyl)Phthalate	<0.1	0.1	NR	<0.1	NA
	Diethyl Phthalate	<0.1	<0.1	NA	<0.1	NA
	Bis(2-Chloroethoxy)Methane	0.1	ND	100	<0.1	NA
	Chrysene	<0.1	ND	100	0.27	NA
	1,2-Benzanthracene	<0.1	ND	100	<0.1	NA
*Acid Extract	Phenol	2.9	<0.1	>97	0.227	8
	2,4-Dimethylphenol	0.2	<0.1	>50	0.165	82
	2,4,6-Trichlorophenol	<0.1	ND	100	<0.1	NA
*Metals	Copper	0.3	0.1	67	<0.1	<33
	Silver	<0.1	<0.1	NA	<0.1	NA
	Zinc	1.0	0.6	40	<0.1	<10
	Mercury	<0.1	ND	100	<0.1	NA
	Nickel	<0.1	0.1	NR	<0.1	NA

NA = Not apparent due to the low observed concentrations
ND = Not detected
NR = No removal
< = Less than
> = Greater than
* = Pollutants detected in influent greater than 50 percent of time.
1/Wood Preserving Plant

phenol	5,450 µg/l
acenaphthene	22,250 µg/l
fluoranthene	15,350 µg/l
naphthalene	26,850 µg/l
1,2-benzanthracene	1,050 µg/l
3-4-benzofluoranthene	4,405 µg/l
11,12-benzofluoranthene	4,405 µg/l
chyrsene	6,500 µg/l
anthracene	34,050 µg/l
1,12-benzoperylene	684 µg/l
fluorene	1,500 µg/l
phenanthrene	32,000 µg/l
1,2:5,6-dibenzanthracene	1,160 µg/l
indeno (1,2,3-C,D) pyrene	3,100 µg/l

Dilution of the wood preserving wastewater with domestic sewage significantly reduced the concentration of the priority pollutants. Pentachlorphenol, a process chemical used at the wood preserving plant, was surprisingly not detected in the influent waste stream at the POTW on four of six occasions. The mass balance table in Appendix E and the results presented in Table 20 summarize the treatment efficiency for the trickling filter treatment system. Conventional pollutant removals were low; priority pollutant removals were slightly better. In several cases, the actual pollutant removal could not be interpreted due to the low mass observed. Zinc, lead, copper, and several base/neutral parameters exhibited a definite affinity to concentrate in the primary sludge.

Over 47 percent of the influent wastewater flow to POTW 53 is attributable to the combined waste stream from seven textile mills. Toxic pollutants that may be expected to be present in the wastewater emanating from textile mills include 17 organic priority pollutants [acrylonitrile, benzene, 1,2,4-trichlorobenzene, 2,4,6-trichlorophenol, parachlorometacresol, chloroform, 1,2-dichlorobenzene, ethylbenzene, trichlorofluoromethane, naphthalene, N-nitrosodi-n-propylamine, pentachlorophenol, phenol, bis(2-ethylhexyl)phthalate, tetrachloroethylene, toluene, and trichloroethylene], 9 metals (cadmium, chromium, copper, lead, mercury, nickel, selenium, silver and zinc) and cyanide. These pollutants are predominately associated with the fibers, pigments, dyes, fiber preservatives, coating formulations, dyestuffs or cleaning solvents used throughout the industry.

Tetrachloroethylene and trichlorethylene were the volatile organic parameters in the influent detected at the highest average concentrations; acenaphthene and 1,2,4-trichlorobenzene were the prevalent base/neutral compounds; and zinc, copper, and nickel had the highest average priority pollutant metal concentrations. With the exception of chloroform, which showed a net increase as a result of activated sludge - chlorination treatment, organic priority pollutant treatment was high. The four dominant organic

TABLE 21

COMPARISON OF INFLUENT AND SECONDARY EFFLUENT POLLUTANT MASSES

POTW 53

Fraction	Parameter	Influent lbs/day	Secondary Effluent lbs/day	Secondary Effluent % Removal
Conventional/ Nonconventional	BOD	7,859	89.2	99
	TSS	6,244	384	94
	COD	20,203	5,169	74
	Oil & Grease	868	398	54
*Volatiles	Methylene Chloride	1.1	0.3	73
	1,1,1-Trichloroethane	2.3	<0.1	>96
	Chloroform	0.5	1.8	NR
	1,2-Trans-Dichloroethylene	0.8	ND	100
	Tetrachloroethylene	20.8	ND	100
	Toluene	0.3	<0.1	>67
	Ethylbenzene	0.8	ND	100
	Trichloroethylene	4.0	ND	100
*Base-Neutrals	Acenaphthene	26.7	<0.1	>99
	Naphthalene	2.5	ND	100
	1,2,4-Trichlorobenzene	42.0	0.2	100
	Bis(2-Ethylhexyl)Phthalate	1.4	0.4	71
	Di-N-Butyl Phthalate	0.3	0.1	67
	Diethyl Phthalate	0.3	0.4	NR
	1,2-Dichlorobenzene	0.1	ND	100
*Acid Extract	Phenol	2.3	<0.1	>96
*Metals	Antimony	0.7	0.6	14
	Arsenic	0.2	0.1	50
	Chromium	0.6	0.2	67
	Copper	5.4	1.2	78
	Nickel	5.3	4.6	13
	Silver	0.2	<0.1	>50
	Zinc	13.4	6.5	51
	Lead	1.3	ND	100
	Mercury	<0.1	<0.1	NA

NA = Not apparent due to the low observed concentrations
ND = Not detected
NR = No removal
< = Less than
> = Greater than
* = Pollutants detected in influent greater than 50 percent of time.

compounds listed above were each reduced by over 99 percent. Primary treatment followed by roughing filters accounted for 65 percent of the volatile organic removal and 84 percent of the base/neutral reduction. The remaining reduction was a result of the activated sludge process. Metals removal was not as good as organic removals, especially the reductions resulting from the primary clarifiers and roughing filters.

POTW 54 is an activated sludge treatment system that receives approximately one percent of its influent flow from a herbicide manufacturer. The herbicide waste is pretreated (toluene extraction, dilution tank, resin absorption basins, and a lime basin with a carbon dioxide stripping column) prior to being discharged to the POTW. Residual pesticides from clean-up operations as well as toluene from the manufacturing processes were anticipated to be present in the waste stream. The toluene loading from the industrial source represents 81 percent of the influent load to the POTW while pesticides were not detected in the influent stream. Removals at the POTW vary as shown in Table 22. Low removals were observed for chloroform, methylene chloride bis(2-ethylhexyl)-phthalate, lead, and selenium.

A pulp and paper mill that discharges to POTW 55 accounts for 56 percent of the average influent flow to the POTW. Because of the extensive detention period through the treatment process of POTW 55, the percent pollutant removals should be viewed cautiously. The time period between the influent and secondary effluent samples may be several months due to the storage lagoon detention period. The time of travel through the soil in the spray irrigation fields extends the time period even further for the influent and tertiary effluent samples. Furthermore, flow rates may not coincide due to precipitation, evaporation, evapotranspiration, and percolation influences.

Based on data from the six-day sampling period, the treatment facility appears to be well acclimated to effectively treat the influent wastewater. Though the influent volatile organic loadings were extremely high, the volatile organic priority pollutant removals were excellent (only the 28 percent for chloroethane was lower than the average 77 percent volatile removals). Priority pollutant removals were good overall with the exception of bis(2-ethylhexyl)-phthalate which showed no reduction.

POTW 56 serves several industries including a steel mill, several electroplating operations, metal fabricators and electrical product manufacturing processes. The industrial flow is over 25 percent of the total plant influent. As might be expected from the contributing industrial mix, significant quantities of metals and cyanides were detected in the influent waste stream. Primary treatment metal removals were fair (Table 24). Secondary treatment followed by filtration further reduced the metal loading to

TABLE 22

COMPARISON OF INFLUENT, SECONDARY EFFLUENT
AND PRIMARY INDUSTRIAL EFFLUENT POLLUTANT MASSES

POTW 54

Fraction	Parameter	Influent lbs/day	Secondary Influent lbs/day	Secondary Influent % Removal	Primary Industrial Contributor[1] lbs/day	Primary Industrial Contributor[1] % of Influent Mass
Conventional/ Nonconventional	BOD.	1,741	737	96	76	0.5
	TSS	31,008	6,138	80	3,973	13
	COD	39,614	2,824	93	2,463	6
	Oil & Grease	4,231	737	83	0.9	<1
*Volatiles	1,1,1-Trichloroethene	1.7	0.4	79	ND	0
	Chloroform	0.8	0.6	17	<0.1	<13
	Methylene Chloride	0.4	0.4	NR	<0.1	<25
	Tetrachloroethylene	0.6	0.1	80	<0.1	<16
	Toluene	0.7	<0.1	100	0.6	81
*Base Neutrals	Bis(2-Ethylhexyl)Phthalate	10.9	9.8	10	0.14	1
	Di-N-Butyl Phthalate	1.3	0.4	70	<0.1	<8
	Diethyl Phthalate	0.2	ND	100	<0.1	<50
*Acid Extract	2,4-Dichlorophenol	51.2	23.4	54	<0.1	0
*Metals	Chromium	1.8	0.5	73	0.09	5
	Copper	2.6	0.2	90	<0.1	<4
	Lead	15.1	11.3	25	0.7	5
	Silver	1.0	<0.1	>90	<0.1	<10
	Zinc	14.0	2.0	86	<0.1	<1
	Mercury	0.1	ND	100	<0.1	<10
	Selenium	0.2	0.8	NR	<0.1	<50

NA = Not apparent due to the low observed concentrations
ND = Not detected
NR = No removal
< = Less than
> = Greater than
* = Pollutants detected in influent greater than 50 percent of time.
1/Herbicide manufacturer

TABLE 23

COMPARISON OF INFLUENT, SECONDARY EFFLUENT, TERTIARY EFFLUENT

AND PRIMARY INDUSTRIAL EFFLUENT POLLUTANT MASSES

POTW 55

Fraction	Parameter	Influent	Secondary Influent[2]		Tertiary Effluent[2]		Primary Industrial Contributor[1]	
		lbs/day	lbs/day	% Removal	lbs/day	% Removal	lbs/day	% of Influent Mass
Conventional/ Nonconventional								
	BOD	38,184		95		>85	NS	NS
	TSS	106,626		96		95	NS	NS
	COD	152,855		75		84	171,460	100+
	Oil & Grease	8,712		46		57	NS	NS
*Volatiles	Benzene	43.2		99		<95	0.5	1.2
	Chlorobenzene	1.2		100		100	ND	0
	1,2-Dichloroethane	941		100		100	ND	0
	1,1,1-Trichloroethane	20.9		>89		100	ND	0
	Chloroform	192		98		100	43	22
	1,2-Trans-Dichloroethylene	2.2		100		100	NS	NS
	Ethylbenzene	6.0		>62		96	1.1	18
	Methylene Chloride	3.1		85		77	1.2	39
	Tetrachloroethylene	11.8		>80		>80	2.1	18
	Toluene	195		97		100	1.3	1
	Chloroethane	73		31		28	NS	NS
	Trichloroethylene	9.3		>75		100	ND	0
	Methyl Chloride	2.8		58		100	NS	NS
*Base-Neutrals	Bis(2-Ethylhexyl)Phthalate	29.0		41		NR	0.9	3
	3,3'-Dichlorobenzidine	21.2		>53		100	NS	NS
	Di-N-Butyl Phthalate	1.1		80		80	0.1	9
*Acid Extract	Phenol	9.9		100		100	1.6	16
*Metals	Chromium	295		90		97	7.8	2.6
	Copper	32.6		96		>93	9.4	29
	Nickel	51.4		76		>86	45.2	88
	Silver	1.2		>60		100	1.3	100+
	Zinc	219		90		98	36.7	17
	Mercury	<0.1		72		83	0.2	100+
	Selenium	1.1		40		40	<0.5	<45
	Arsenic	1.1		NR		60	1.6	100+
	Lead	51.0		>8		85	12.5	25
	Cyanide	19.8		>88		96	NS	NS

NS = Not sampled
ND = Not detected
< = Less than
> = Greater than
* = Pollutants detected in influent greater than 50 percent of time.

1/ Pulp and Paper Mill
2/ Percent Removals based on concentration

TABLE 24

COMPARISON OF INFLUENT, PRIMARY EFFLUENT AND TERTIARY EFFLUENT POLLUTANT MASSES

POTW 56

Fraction	Parameter	Influent lbs/day	Primary Effluent lbs/day	Primary Effluent % Removal	Tertiary Effluent lbs/day	Tertiary Effluent % Removal
Conventional/ Nonconventional	BOD	11,329	3,165	72	—	—
	TSS	59,097	22,981	61	568	99
	COD	54,029	31,375	42	—	—
	Oil & Grease	5,614	2,339	59	1,263	76
*Volatiles	Benzene	0.2	0.1	50	0.1	50
	1,2-Trans-Dichloroethylene	0.6	0.8	NR	<0.1	>83
	Ethylbenzene	0.1	0.1	NR	<0.1	NR
	Toluene	0.5	0.4	20	<0.1	>80
	Trichloroethylene	8.0	7.6	5	3.6	52
	1,1,1-Trichloroethane	0.4	2.6	NR	0.6	NR
	Tetrachloroethylene	1.8	1.1	38	0.3	83
	Methylene Chloride	0.3	0.7	NR	0.3	NR
*Base-Neutrals	Bis(2-ethylhexyl)phthalate	1.1	3.2	NR	0.1	88
	Di-N-Butyl Phthalate	0.3	0.1	50	<0.1	>67
	Diethyl Phthalate	0.5	0.3	33	<0.1	>80
	Naphthalene	0.5	<1.4	-	ND	100
	Butyl Benzyl Phthalate	0.2	<1.4	-	<0.1	>50
*Acid Extract	Phenol	0.7	0.1	80	ND	100
*Pesticides	Gamma-BHC	<0.1	0.1	NR	<0.1	17
*Metals	Arsenic	4.4	0.6	88	0.3	91
	Chromium	78.7	19.0	76	4.8	93
	Copper	36.7	14.0	62	1.5	96
	Nickel	26.0	16.5	37	12.3	48
	Zinc	924	440	52	179	81
	Silver	0.4	0.3	33	ND	100
	Lead	80.3	29.9	63	14.7	80
	Mercury	<0.1	<0.1	75	ND	100
	Selenium	0.4	0.1	67	1.3	NR
*Other	Cyanide	8.4	2.9	66	4.5	43

ND = Not detected
NR = No removal
< = Less than
> = Greater than
* = Pollutants detected in influent greater than 50 percent of time.

the receiving stream. Nickel, as has been the case at other POTWs, had poor primary and secondary/tertiary treatment removals. Eight volatile priority pollutant compounds and five base/neutral compounds were detected more than 50 percent of the time in the influent waste stream. Except for trichloroethylene and tetrachloroethylene, all organic priority pollutant influent average concentrations were below 10 μg/l. Primary treatment afforded little, if any, organic priority pollutant removal; secondary/tertiary treatment provided fair removals.

POTW 57 was previously sampled during the 40 POTW survey (identified as POTW 6). This treatment facility serves several industries including chemical/plastics manufacturing, electroplating, and the food processing industries. Industrial flow amounts to about 15 percent of the POTW influent. The most significant industry (polyvinyl chloride manufacturing operation) was simultaneously sampled for a 48-hour period as part of the program. Extremely high vinyl chloride in the influent waste stream to the POTW during the first six-day sampling episode warranted verification sampling at the PVC plant.

Grab samples or VOAs were randomly taken twice per day at the PVC plant while VOA grab samples at the POTW influent were taken six times per day, once every four hours. This variation in the sampling methodologies accounts for the difference in vinyl chloride mass loading between the POTW influent and the industry sample location. Vinyl chloride removals as a result of combined primary and secondary treatment averaged 93 percent. Other volatile organic priority pollutants present at average concentrations greater than 50 μg/l were trichloroethylene and methyl chloride. Percent removals were 44 and 98 percent, respectively. Influent metal concentrations were high in comparison to the other 48 POTWs sampled. Removals were good; nickel was poorest at 45 percent removal. Pollutants in base/neutral, acid extractable, and pesticide fractions were not significantly present during the study.

POTW 58 serves several industries, predominantly the pulp and paper industry and a steel mill. Industrial flow averages 30 to 40 percent of the POTW influent. Phenol was the prevalent priority pollutant present in the influent waste stream (795 μg/l). Phenol mass removal through the POTW averaged 99 percent. Phenol showed no tendency to concentrate in either of the sludge waste streams, indicating that biodegradation may be the primary removal mechanism for phenol. Chloroethane and bis(2-ethylhexyl)phthalate showed no reduction while methylene chloride and nickel yielded only 14 percent and 16 percent reductions after secondary treatment.

Several industrial operations contribute approximately 17 percent of the influent flow to POTW 59, with pharmaceutical products manufacturing and metal plating operations comprising the most

TABLE 25

COMPARISON OF INFLUENT, SECONDARY EFFLUENT AND
PRIMARY INDUSTRIAL EFFLUENT POLLUTANT MASSES

POTW 57

Fraction	Parameter	Influent lbs/day	Secondary Effluent lbs/day	Secondary Effluent % Removal	Primary Industrial Contributor[1] lbs/day	Primary Industrial Contributor[1] % of Influent Mass
Conventional/ Nonconventional	BOD	11,785	539	95	1,622	14
	TSS	26,716	2,232	92	662	2
	COD	52,347	4,578	91	2,951	6
	Oil & Grease	9,427	1,260	86	161	2
*Volatiles	Chloroform	0.3	0.3	NR	NS	NS
	1,2-Trans-Dichloroethylene	1.5	0.1	91	NS	NS
	Ethylbenzene	0.3	1.0	NR	NS	NS
	Methylene Chloride	0.9	1.1	NR	NS	NS
	Toluene	2.0	<0.1	>98	NS	NS
	Trichloroethylene	12.5	7.0	44	NS	NS
	Vinyl Chloride	2,527	178	93	362	14
	1,1,1-Trichloroethane	1.3	ND	100	NS	NS
	Methyl Chloride	11.4	0.2	98	NS	NS
	Tetrachloroethylene	1.4	ND	100	NS	NS
	Benzene	0.2	ND	100	NS	NS
*Base Neutrals	Bis(2-ethylhexyl)phthalate	1.6	1.2	26	NS	NS
*Metals	Antimony	0.2	<0.1	60	<0.1	<50
	Arsenic	0.2	0.1	50	<0.1	<50
	Cadmium	44.2	4.4	90	<0.1	<1
	Chromium	65.1	6.6	90	0.35	<1
	Copper	36.8	3.7	90	0.17	<1
	Lead	7.5	ND	>51	0.14	2
	Mercury	0.2	<0.1	90	<0.1	<50
	Nickel	20.2	11.1	45	0.87	4
	Silver	0.7	0.1	81	<0.1	<14
	Zinc	178	29.2	84	2.64	1
*Other	Cyanide	5.6	ND	>92	<0.1	<2

ND = Not detected
NR = No removal
NS = Not sampled
< = Less than
> = Greater than
* = Pollutants detected in influent greater than 50 percent of time.
1/Polyvinyl Chloride Manufacturer

TABLE 26

COMPARISON OF INFLUENT AND SECONDARY EFFLUENT POLLUTANT MASSES

POTW 58

Fraction	Parameter	Influent lbs/day	Secondary Effluent lbs/day	Secondary Effluent % Removal
Conventional/ Nonconventional	BOD	17,069	2,882	83
	TSS	21,406	2,023	91
	COD	60,773	15,299	75
	Oil & Grease	3,691	3,691	20
*Volatiles	Benzene	18.6	1.7	91
	Toluene	0.9	ND	100
	Chloroethane	29.2	38.6	NR
	Methylene Chloride	1.4	1.2	14
	Tetrachloroethylene	1.6	ND	100
*Base-Neutrals	Bis(2-ethylhexyl)phthalate	12.2	20.8	NR
	Di-N-Butyl Phthalate	1.6	0.6	63
	Fluoranthene	0.8	ND	100
	Di-N-Octyl Phthalate	1.1	<0.1	>91
	Diethyl Phthalate	1.0	<0.1	>90
	Pyrene	0.6	ND	100
	1,2-Diphenylhydrazine	0.6	<0.1	>83
*Acid Extract	2,4-Dimethyl Phenol	0.5	ND	100
	Phenol	147	1.1	99
*Metals	Cadmium	1.5	0.6	60
	Chromium	17.7	6.6	63
	Copper	46.5	7.3	84
	Lead	36.9	15.9	57
	Nickel	48.9	41.0	16
	Silver	2.0	2.3	NR
	Zinc	33.4	11.7	65
	Antimony	6.1	1.4	77
*Other	Cyanide	30.3	12.0	60

ND = Not detected
NR = No removal
< = Less than
> = Greater than
* = Pollutants detected in influent greater than 50 percent of time.

TABLE 27

COMPARISON OF INFLUENT AND SECONDARY EFFLUENT POLLUTANT MASSES

POTW 59

Fraction	Parameter	Influent lbs/day	Secondary Effluent lbs/day	Secondary Effluent % Removal
Conventional/ Nonconventional	BOD	39,198	1,630	96
	TSS	123,825	3,627	97
	COD	97,953	43,278	56
	Oil & Grease	18,402	2,038	89
*Volatiles	Benzene	1.6	ND	120
	1,1,1-Trichloroethane	6.0	1.1	79
	Chloroform	2.0	1.6	13
	Ethylbenzene	12.3	<0.1	100
	Methylene Chloride	15.9	11.4	28
	Tetrachloroethylene	57.4	11.6	79
	Toluene	77.5	0.9	99
	Trichloroethylene	17.0	2.6	84
	1,2-Trans-Dichloroethylene	0.8	ND	100
*Base-Neutrals	Bis(2-Ethylhexyl)Phthalate	72.5	9.8	86
	Naphthalene	6.7	ND	100
	Di-N-Butyl Phthalate	15.1	1.1	92
	Di-N-Octyl Phthalate	2.5	1.2	50
	1,2-Dichlorobenzene	0.6	<0.1	100
*Acid Extract	Phenol	17.2	0.7	96
*Metals	Chromium	113	59.1	47
	Copper	41.8	4.5	89
	Mercury	<0.1	<0.1	83
	Nickel	41.8	24.0	42
	Silver	2.4	0.4	80
	Zinc	195	50.0	74
*Other	Cyanide	9.3	3.4	63

ND = Not detected
< = Less than
* = Pollutants detected in influent greater than 50 percent of time.

TABLE 28

COMPARISON OF INFLUENT, PRIMARY EFFLUENT, SECONDARY EFFLUENT AND PRIMARY INDUSTRIAL EFFLUENT POLLUTANT MASSES

POTW 60

Fraction	Parameter	Influent lbs/day	Primary Effluent lbs/day	Primary Effluent % Removal	Secondary Effluent lbs/day	Secondary Effluent %Removal	Primary Industrial Contributor[1] lbs/day	Primary Industrial Contributor[1] %Removal
Conventional/ Nonconventional	BOD	14,743	7,931	46	416	97	5,461	37
	TSS	11,698	2,908	75	811	93	3,789	32
	COD	34,343	19,775	42	2,205	94	12,096	35
	Oil & Grease	2,649	1,454	45	566	77	1,314	50
*Volatiles	Benzene	<0.1	<0.1	NA	ND	100	<0.1	NA
	1,1,1-Trichloroethane	13.0	10.3	21	0.7	94	<0.1	<1
	1,1-Dichloroethane	0.4	0.4	NR	ND	100	<0.1	<25
	Chloroform	<0.1	<0.1	NA	<0.1	NA	<0.1	NA
	1,2-Trans-dichloroethylene	0.2	0.2	NR	ND	100	<0.1	<50
	Ethylbenzene	0.2	0.1	29	<0.1	>50	0.22	100+
	Methylene Chloride	0.2	0.9	NR	<0.1	>50	<0.1	<50
	Tetrachloroethylene	0.6	0.5	17	<0.1	>87	<0.1	<17
	Toluene	0.5	0.3	40	ND	100	0.25	50
	Trichloroethylene	0.2	0.3	NR	<0.1	>50	<0.1	50
	1,2-Trans-Dichloroethylene	0.3	0.3	NR	ND	100	<0.1	<33
*Base-Neutrals	1,2-Dichlorobenzene	2.6	1.1	58	<0.1	>96	0.26	10
	1,4-Dichlorobenzene	0.5	0.2	53	<0.1	>80	0.18	36
	Naphthalene	4.9	3.3	34	ND	100	0.78	16
	Bis(2-ethylhexyl)phthalate	2.5	0.8	69	0.6	76	<0.1	4
	Butyl Benzyl Phthalate	0.4	0.2	50	ND	100	<0.1	<25
	Di-N-Butyl Phthalate	0.4	0.2	47	<0.1	>75	<0.1	<25
	Diethyl Phthalate	0.2	0.2	NR	<0.1	>50	<0.1	<50
	Dimethyl Phthalate	<0.1	<0.1	NR	<0.1	NA	<0.1	NA
	Anthracene	<0.1	<0.3	NA	ND	100	<0.1	NA
	Phenanthrene	<0.1	<0.3	NA	ND	100	<0.1	NA
*Acid Extract	Phenol	6.4	<0.1	NA	ND	NA	<0.1	NA
	Pentachlorophenol	<0.1	<0.1	NA	ND	NA	<0.1	NA
*Pesticides	Delta-BHC	<0.1	<0.1	NA	ND	NA	ND	0
*Metals	Chromium	110	21.7	80	2.7	98	150	100+
	Copper	2.8	1.3	53	0.2	91	0.5	18
	Nickel	3.7	4.0	NR	3.0	19	<0.1	<3
	Zinc	40.3	19.5	52	2.8	93	0.5	<1
	Mercury	<0.1	<0.1	NA	ND	100	<0.1	NA
	Silver	<0.1	<0.1	NA	<0.1	NA	NS	NS
	Arsenic	<0.1	0.1	NR	<0.1	NA	NS	NS
	Cadmium	<0.1	<0.1	NR	ND	NA	<0.1	NA
*Other	Cyanide	1.8	1.7	NR	2.2	NR	<0.1	-

ND = Not detected
NR = No removal
NA = Not apparent due to the low concentrations observed.
NS = Not sampled
< = Less than
> = Greater than
* = Pollutants detected in influent greater than 50 percent of time.
1 - Leather Tanning and Finishing Operation

significant sources of this flow. Toluene, tetrachloroethylene, and bis(2-ethylhexyl)phthalate were the organic priority pollutants detected at the highest influent concentrations. Percent removals for these pollutants were 99, 79, and 86 percent, respectively. The two volatile compounds were not concentrated in the sludge stream which indicates that air-stripping and/or biodegradation are the treatment reduction process. Bis(2-ethylhexyl)phthalate was detected at significant levels in the sludge streams indicating bioflocculation may be the significant treatment process for this compound. Of the priority pollutant metals detected more than 50 percent of the time, chromium and nickel showed the lowest removal rates at 47 and 42 percent, respectively. Other than nickel and chromium, copper was the metal with the highest influent concentration; copper removal was 89 percent through secondary treatment.

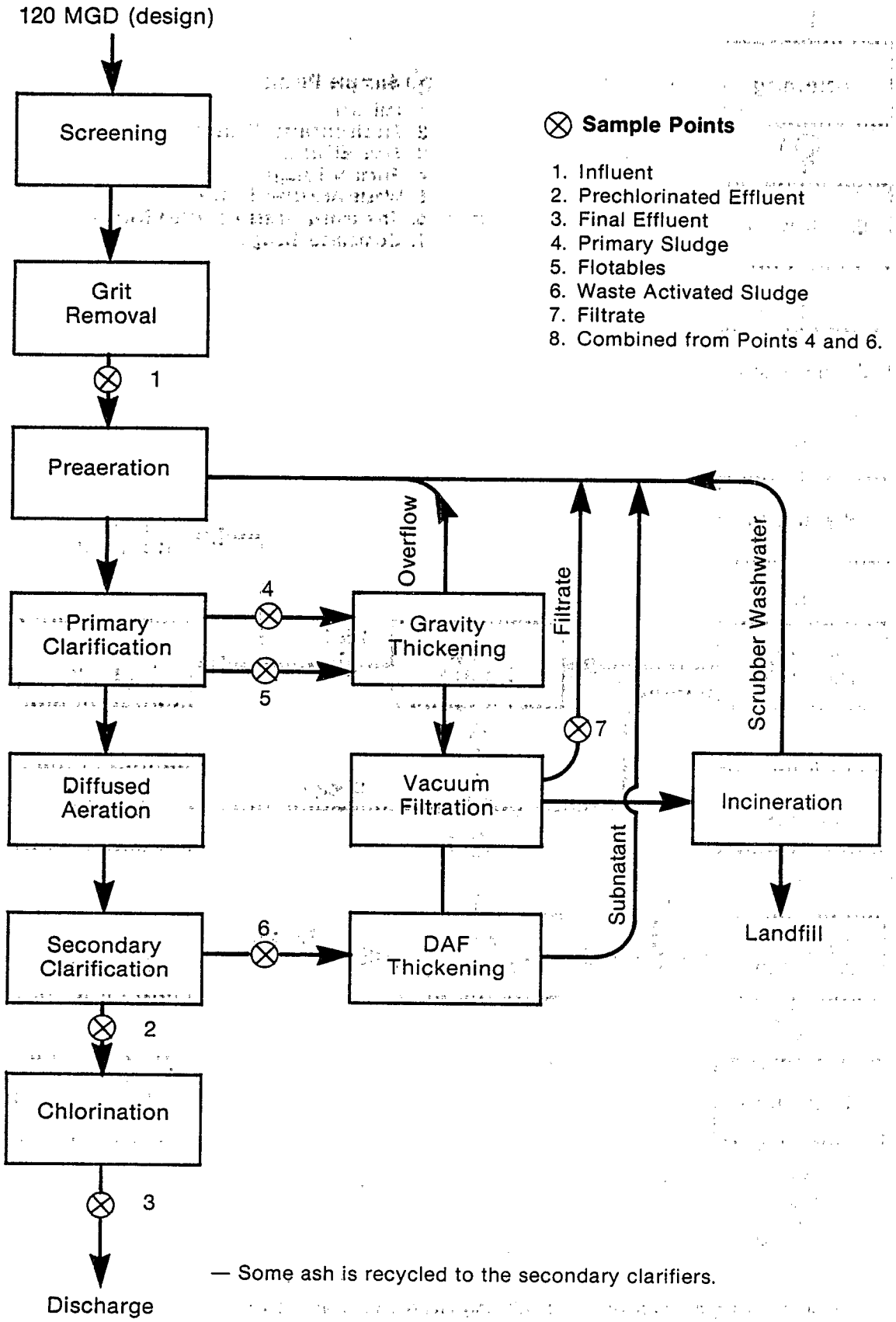
Approximately 13 percent of the influent flow to POTW 60 is from a leather tanning and finishing plant. Table 28 compares the pollutant mass for the industry source with the POTW influent, primary effluent, and secondary effluent streams. Chromium, a process chemical used in the tanning process, was the priority pollutant detected at the highest influent concentration to the POTW. Ferric chloride was added to the tannery waste stream to aid sedimentation of chromium. Eighty percent of the chromium load was found to settle out as a result of primary sedimentation. The activated sludge process further removed chromium for a net removal of 98 percent. Thirty-two other priority pollutants were detected in the influent waste stream over 50 percent of the time. Overall removals for those pollutants were excellent, except for nickel (19 percent removal) and cyanide (no removal).

APPENDIX A

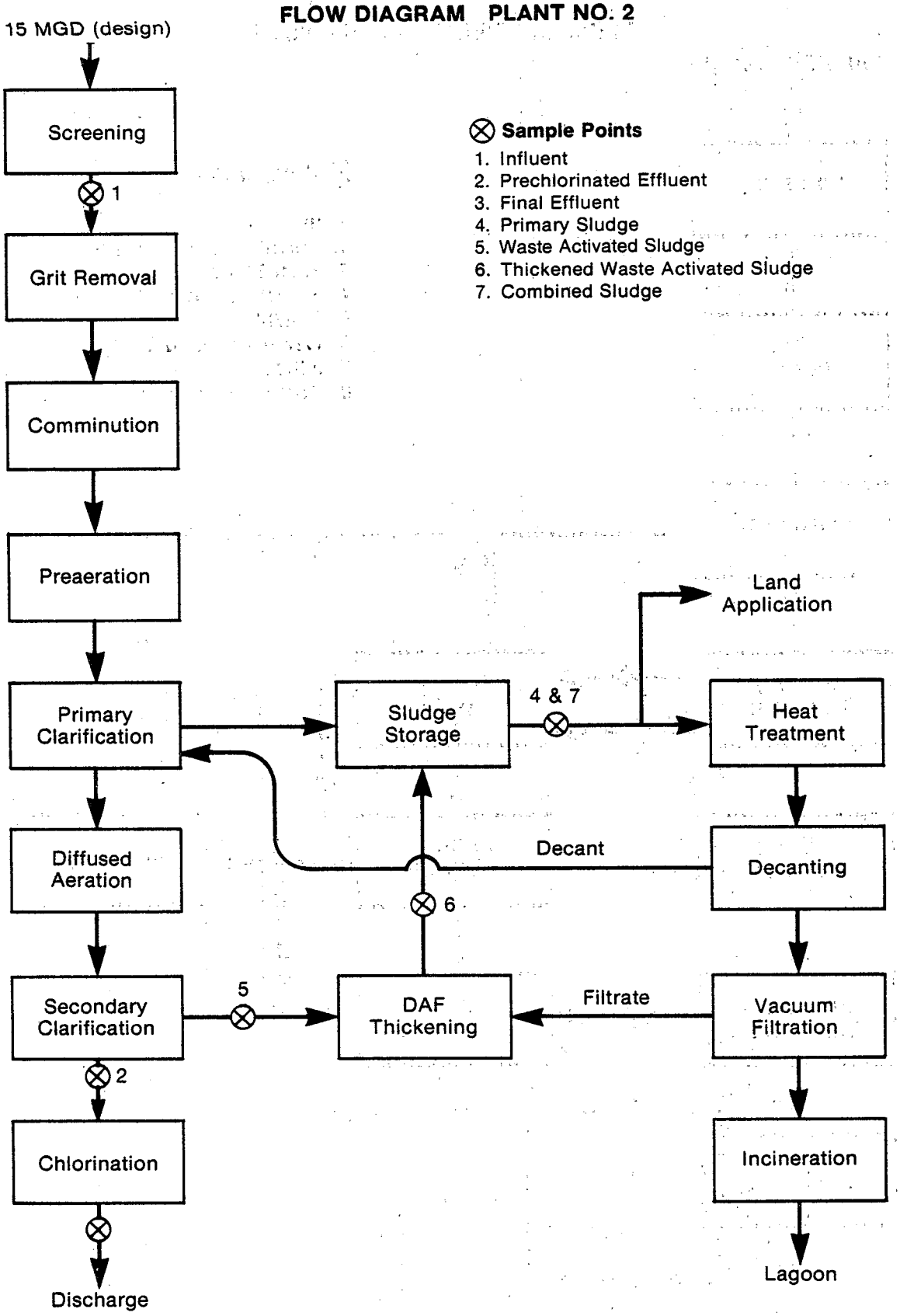
FLOW DIAGRAMS

PLANTS 1 to 40 AND 51 to 60

FLOW DIAGRAM PLANT NO. 1



FLOW DIAGRAM PLANT NO. 2

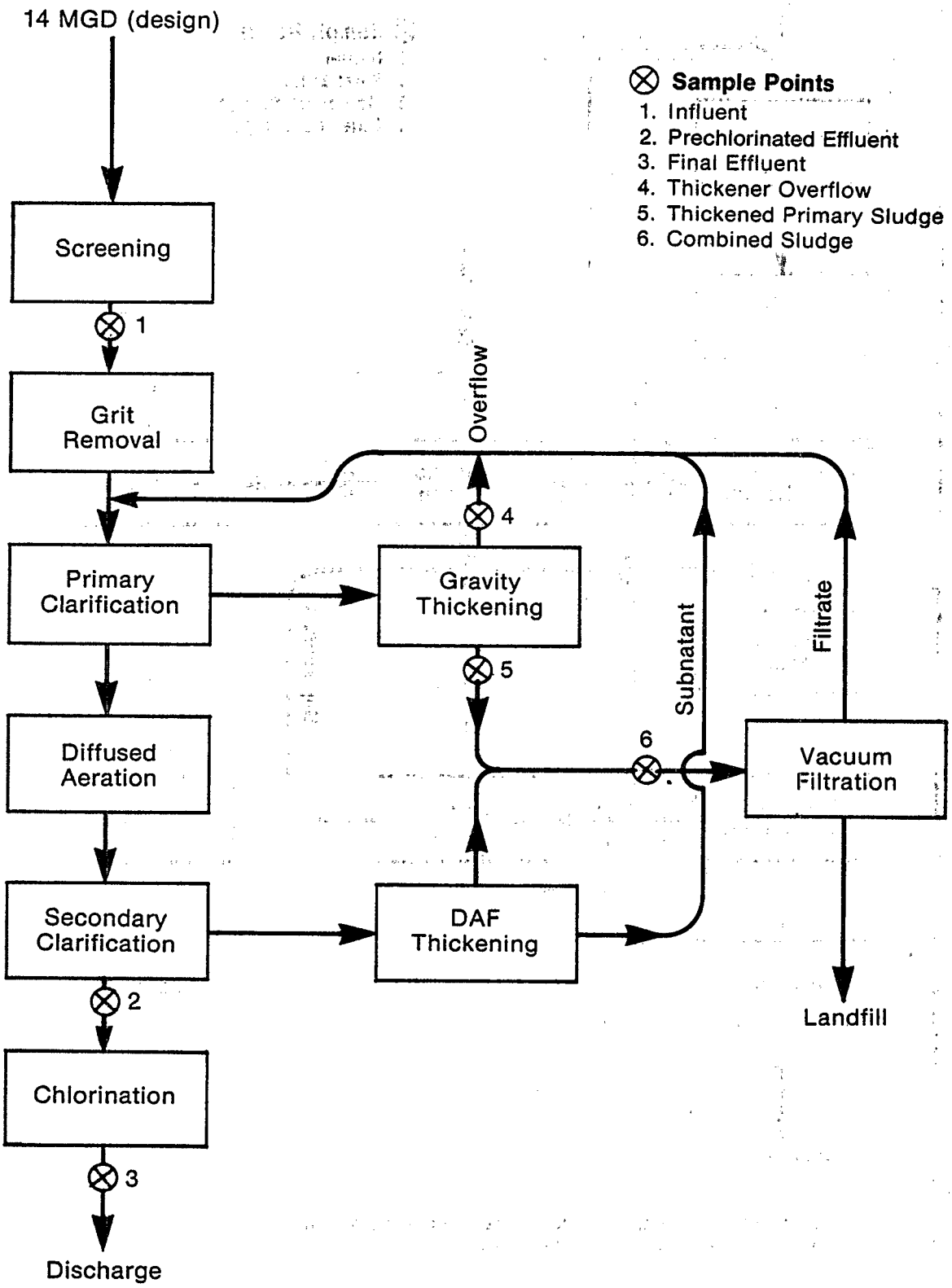


— Heat treatment and incineration not in operation during sampling

— During sampling, plant operating with only half of its primary clarifiers and aeration tanks.

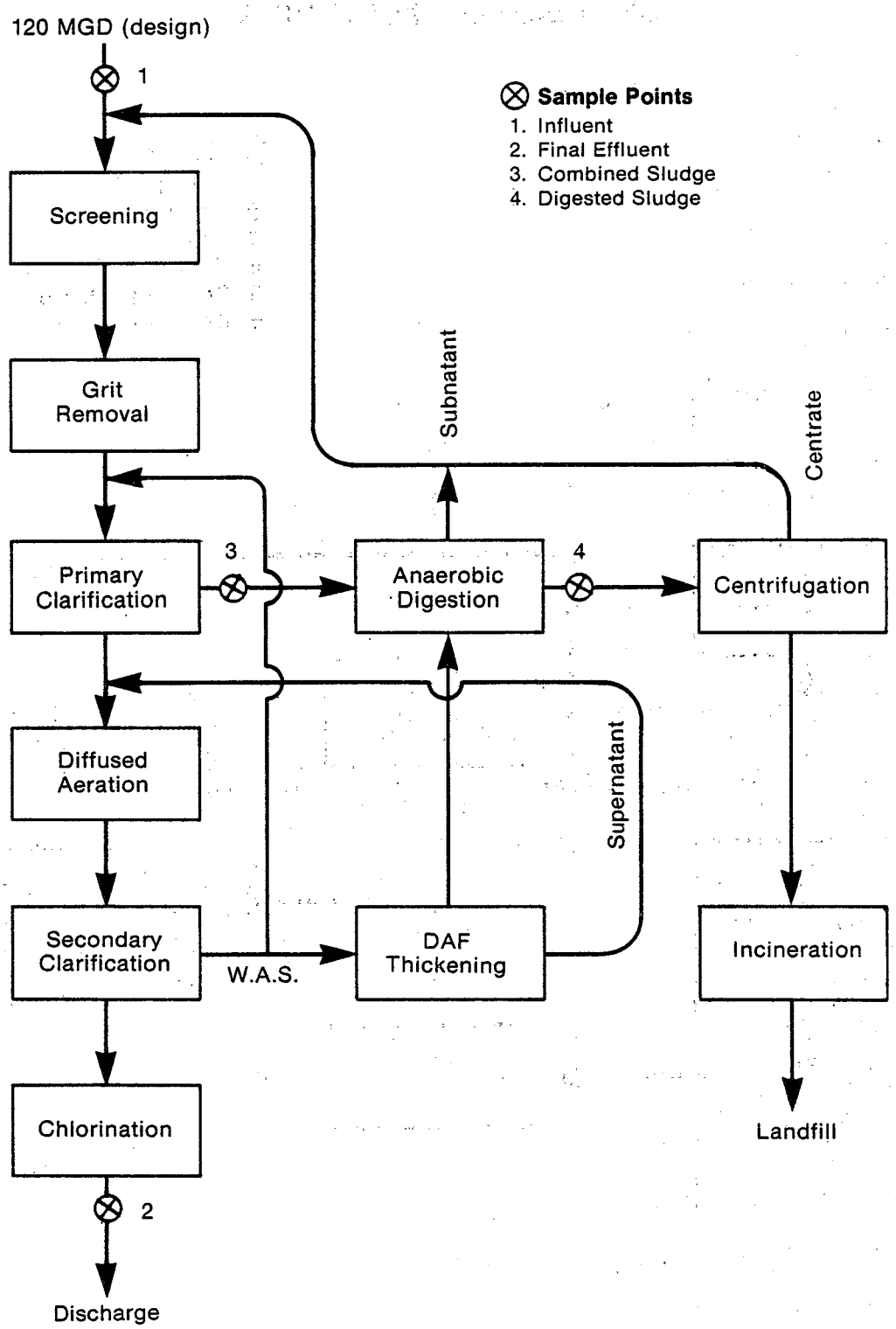
— Activated sludge was wasted for five of seven days during the sampling program.

FLOW DIAGRAM PLANT NO. 3



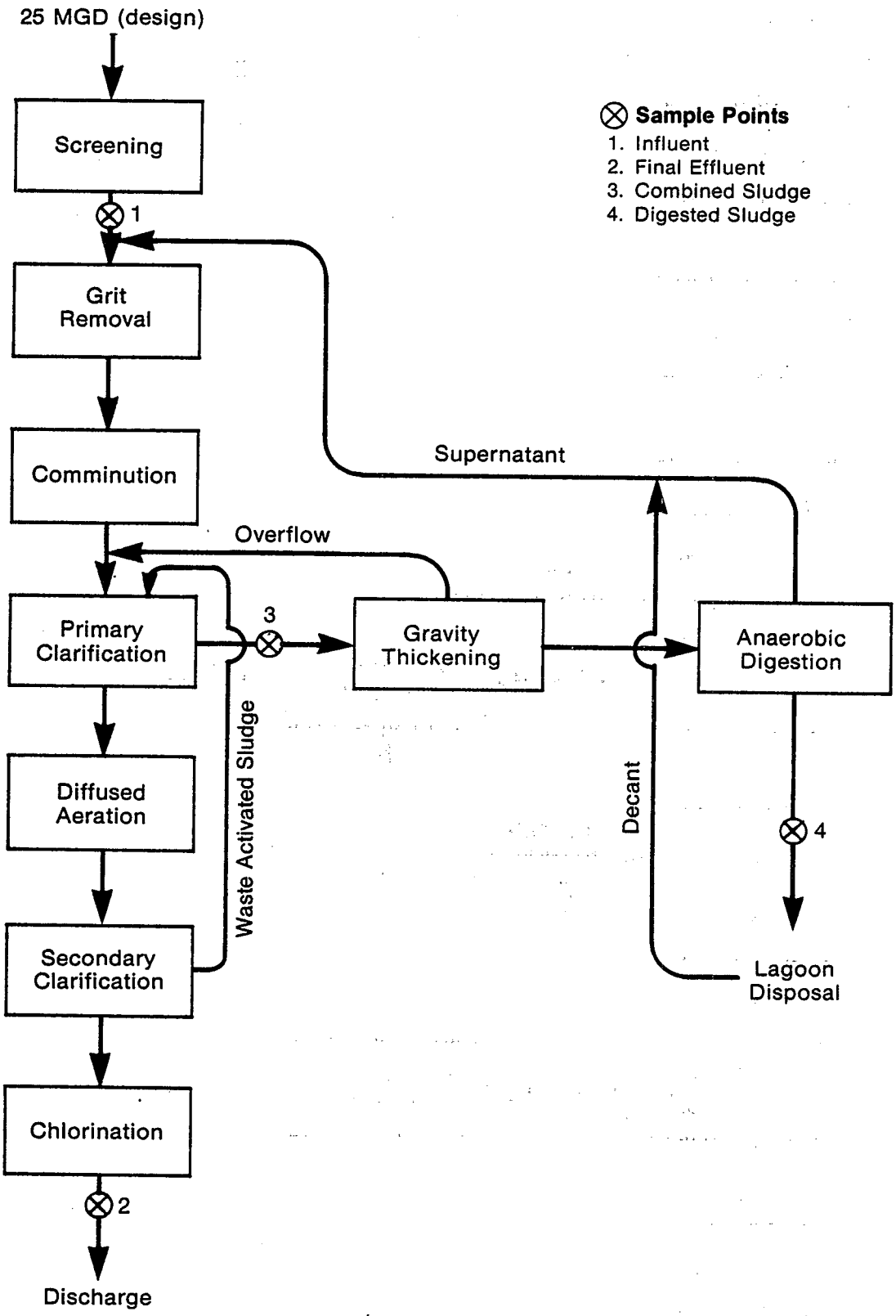
— Prechlorination utilized only when necessary.

FLOW DIAGRAM PLANT NO. 4



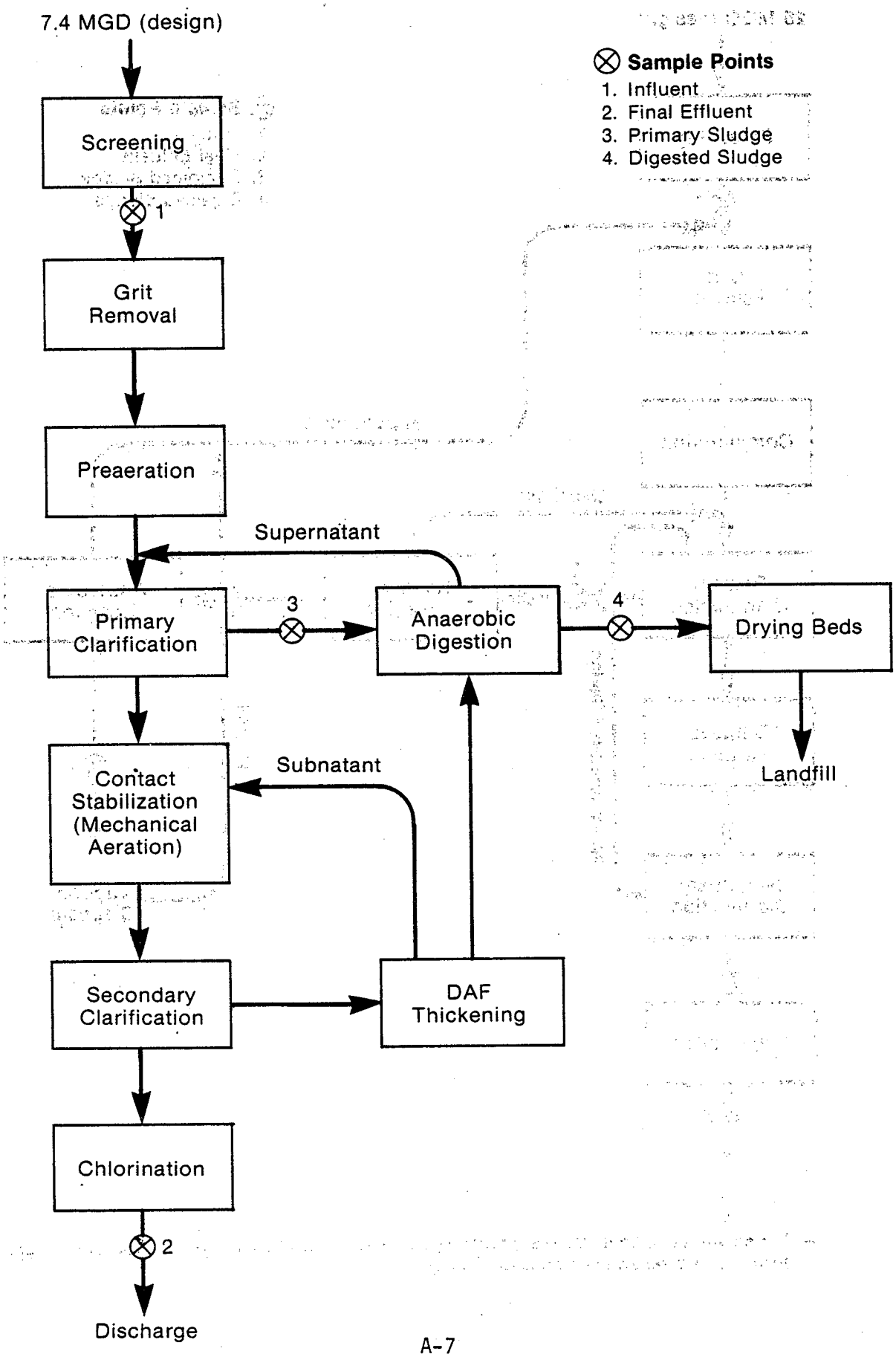
— All plant recycle lines are returned to the influent line, which accounts for only 6% of the plant flow. This influent was not sampled.
— Prechlorination utilized for odor control.
— DAF Thickened Sludge is pumped directly to centrifuges, if necessary.

FLOW DIAGRAM PLANT NO. 5

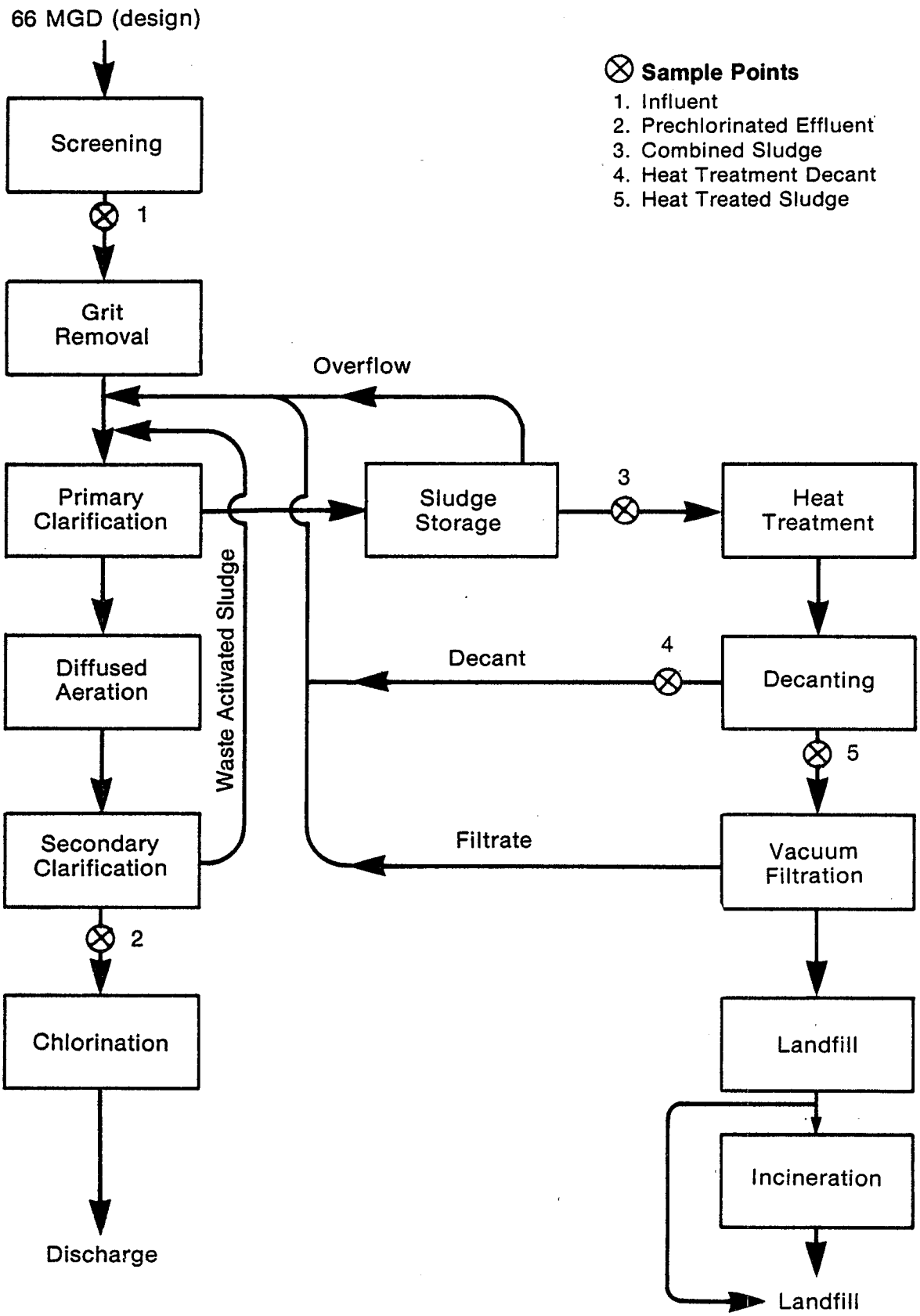


— During wet conditions, the plant routinely treats an additional 50 MGD through the primary system and a separate chlorination facility.

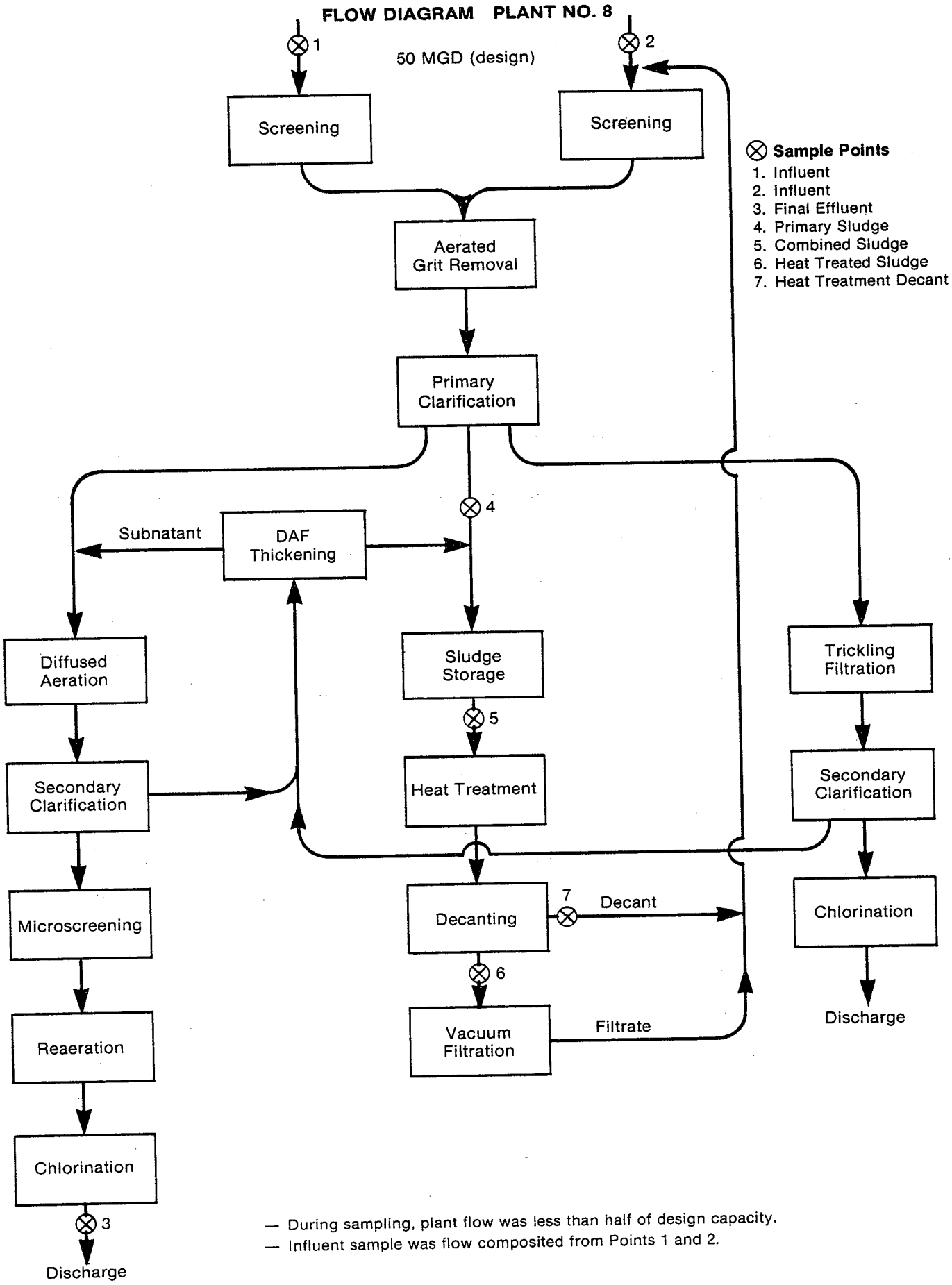
FLOW DIAGRAM PLANT NO. 6



FLOW DIAGRAM PLANT NO. 7

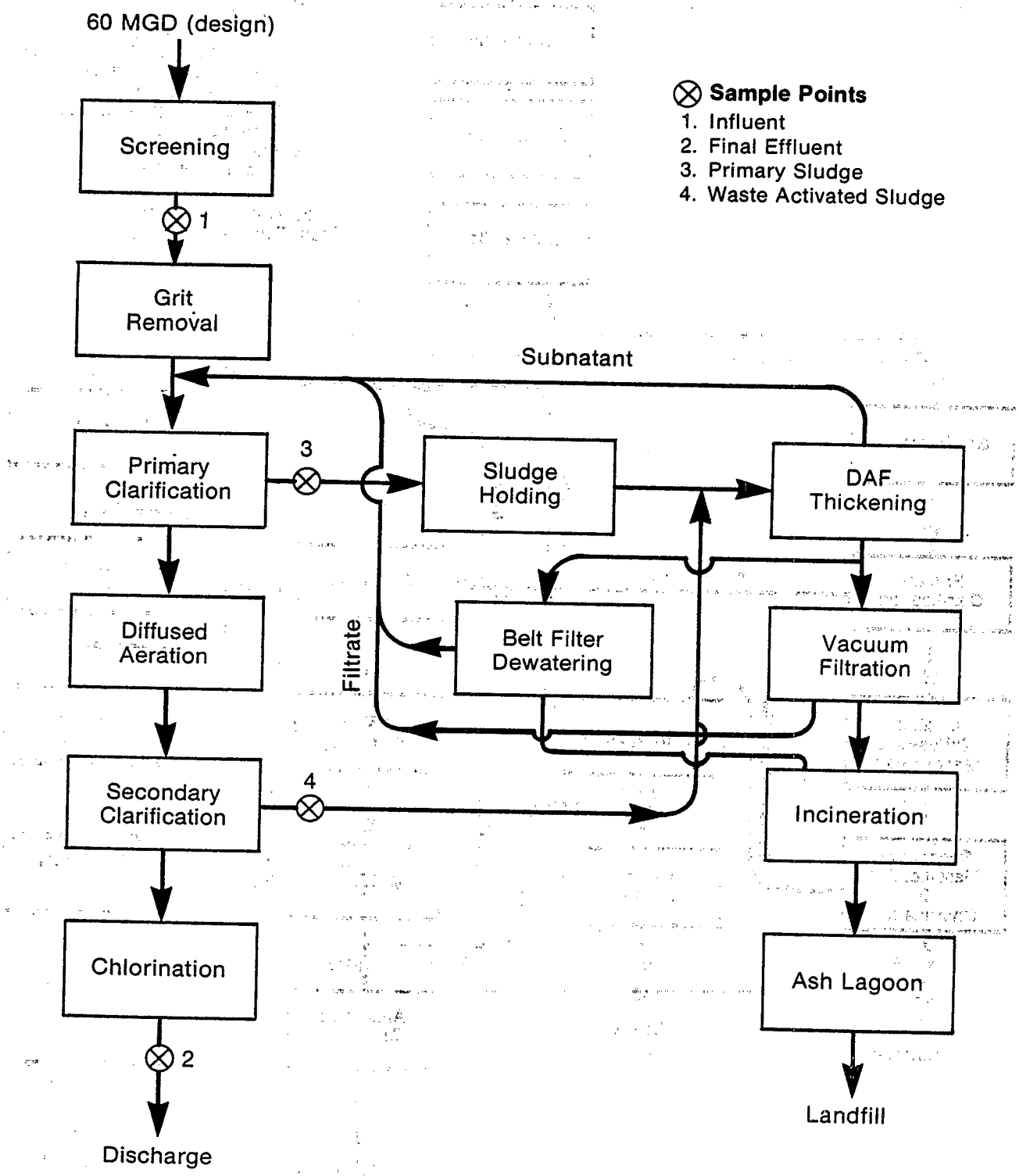


FLOW DIAGRAM PLANT NO. 8



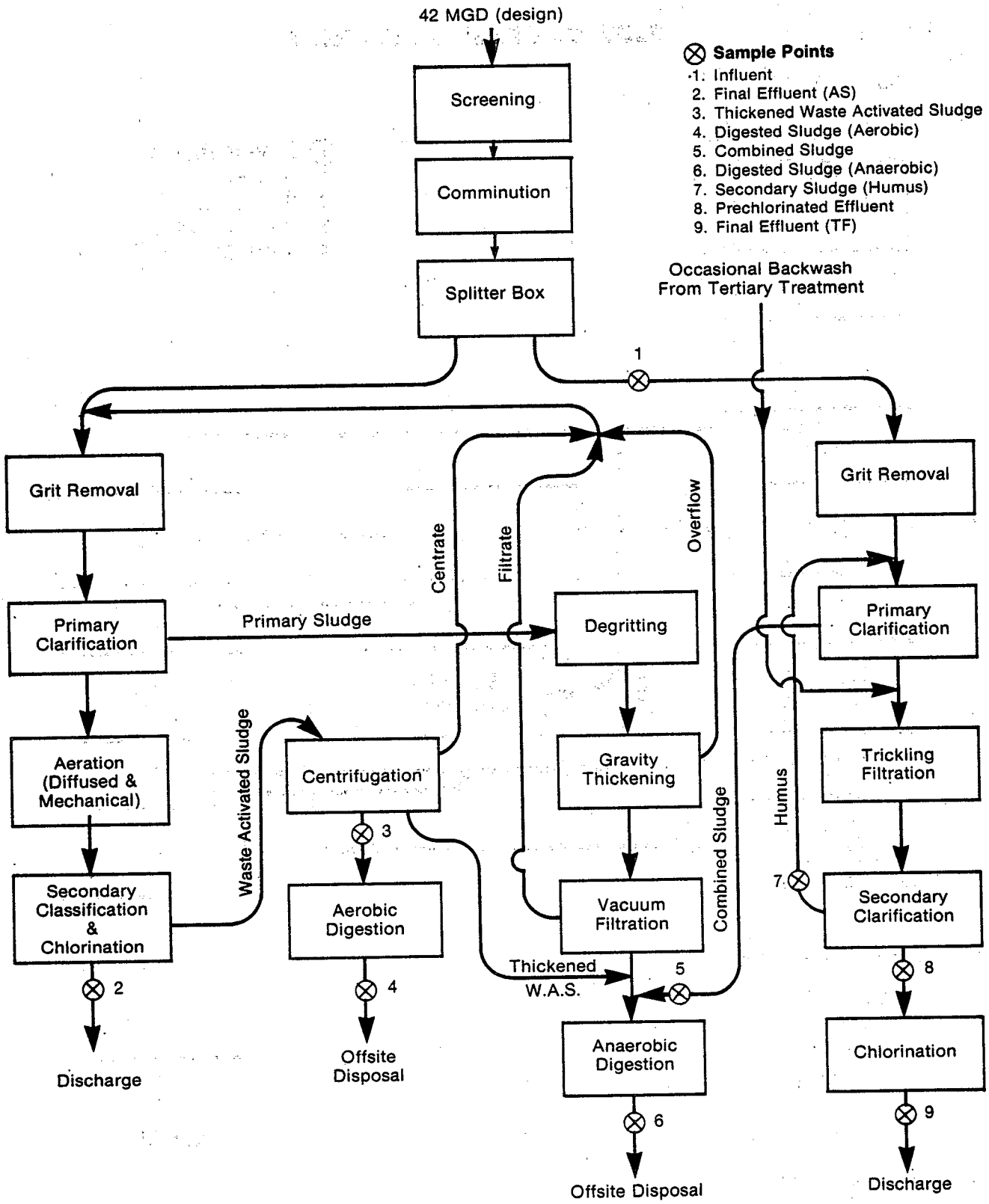
— During sampling, plant flow was less than half of design capacity.
— Influent sample was flow composited from Points 1 and 2.

FLOW DIAGRAM PLANT NO. 9



— Chlorinated effluent sampled immediately after chlorine injection.

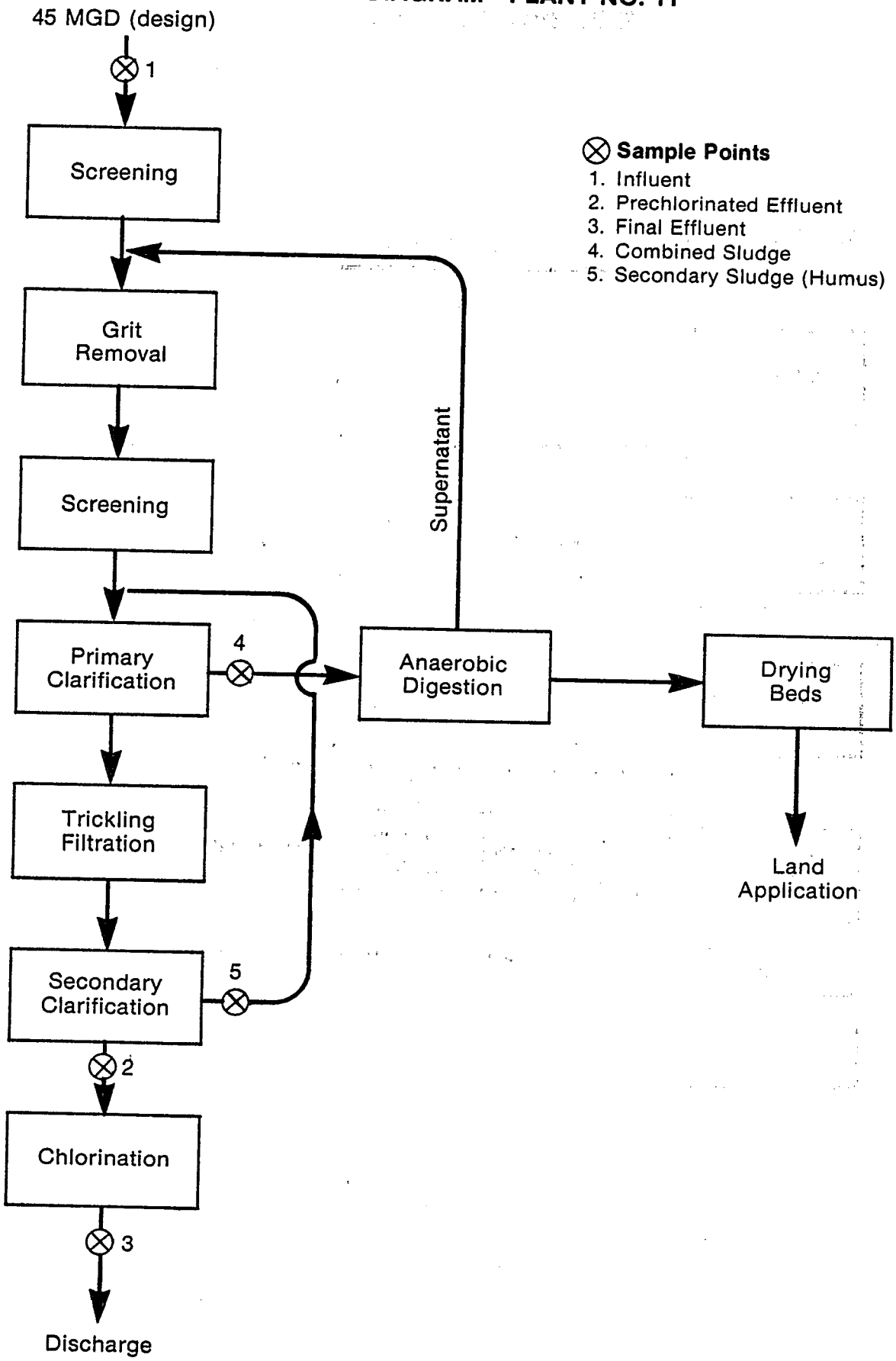
FLOW DIAGRAM PLANT NO. 10



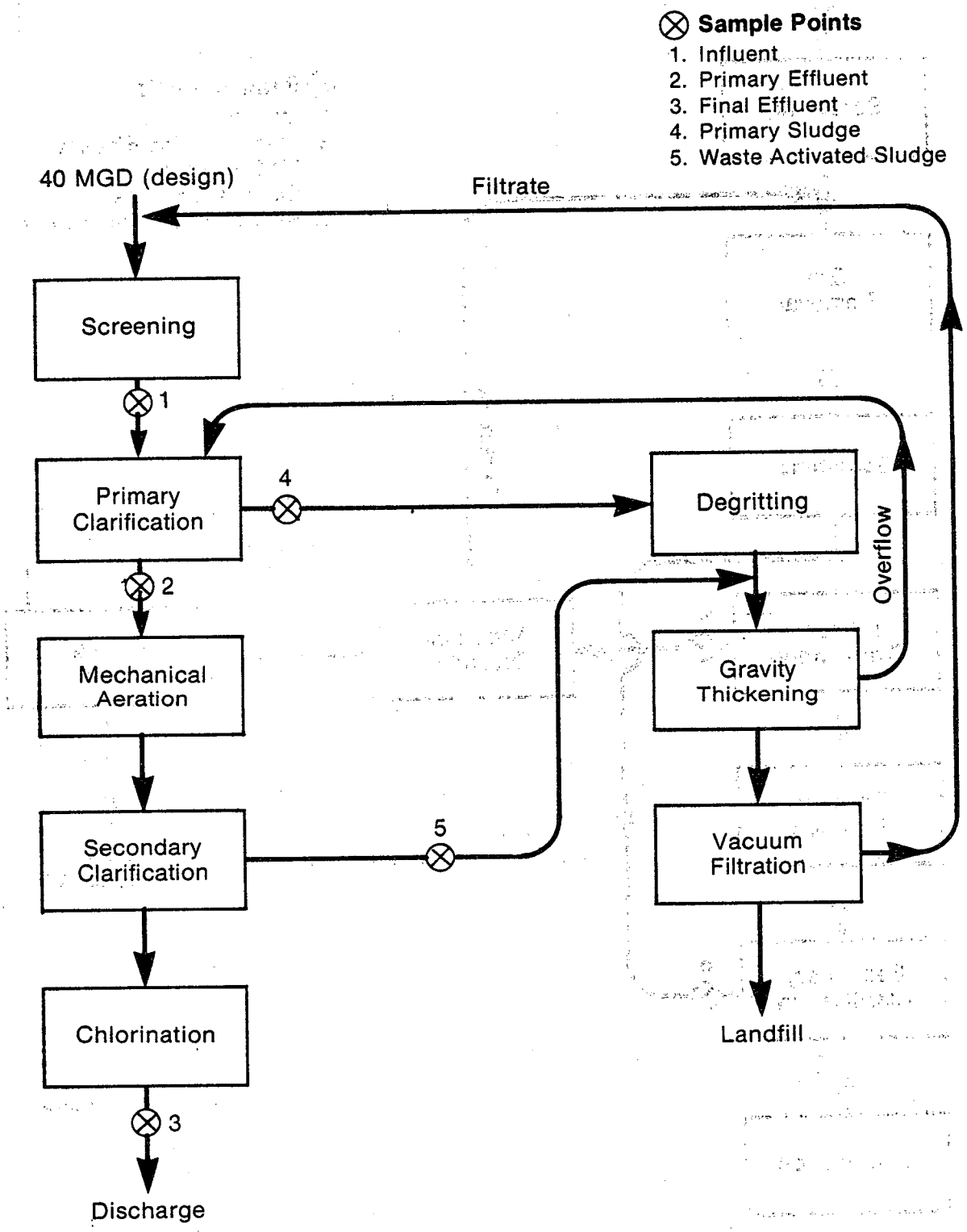
— This plant also utilizes a 9 MGD tertiary treatment process. The effluent from this process is used for irrigation. Filter backwash is returned to the head of the trickling filter system.

— Thickened waste activated sludge is blended with the vacuum filtered primary sludge resulting in a sludge concentration of approximately 5 to 6% solids before anaerobic digestion.

FLOW DIAGRAM PLANT NO. 11

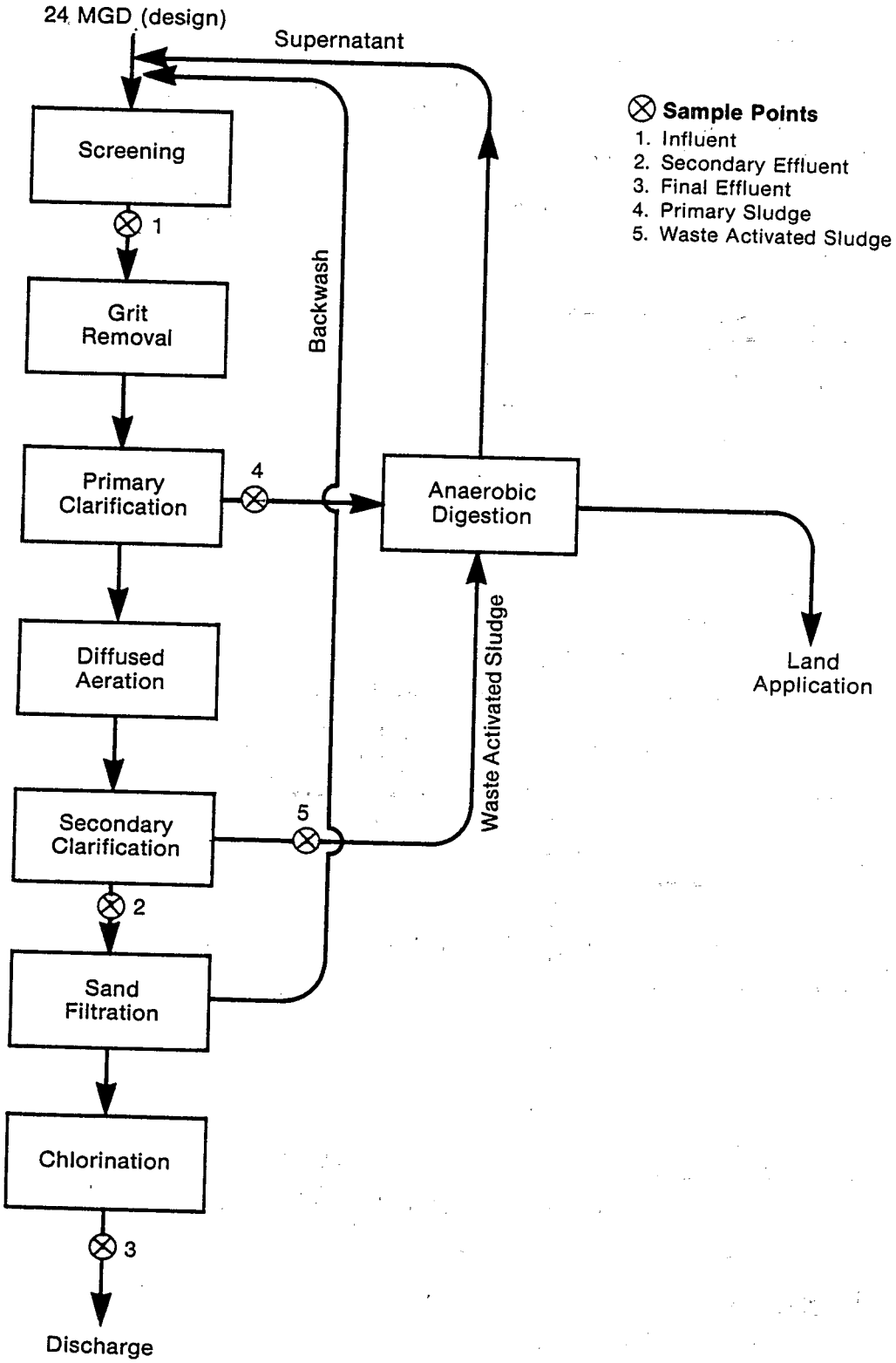


FLOW DIAGRAM PLANT NO. 12



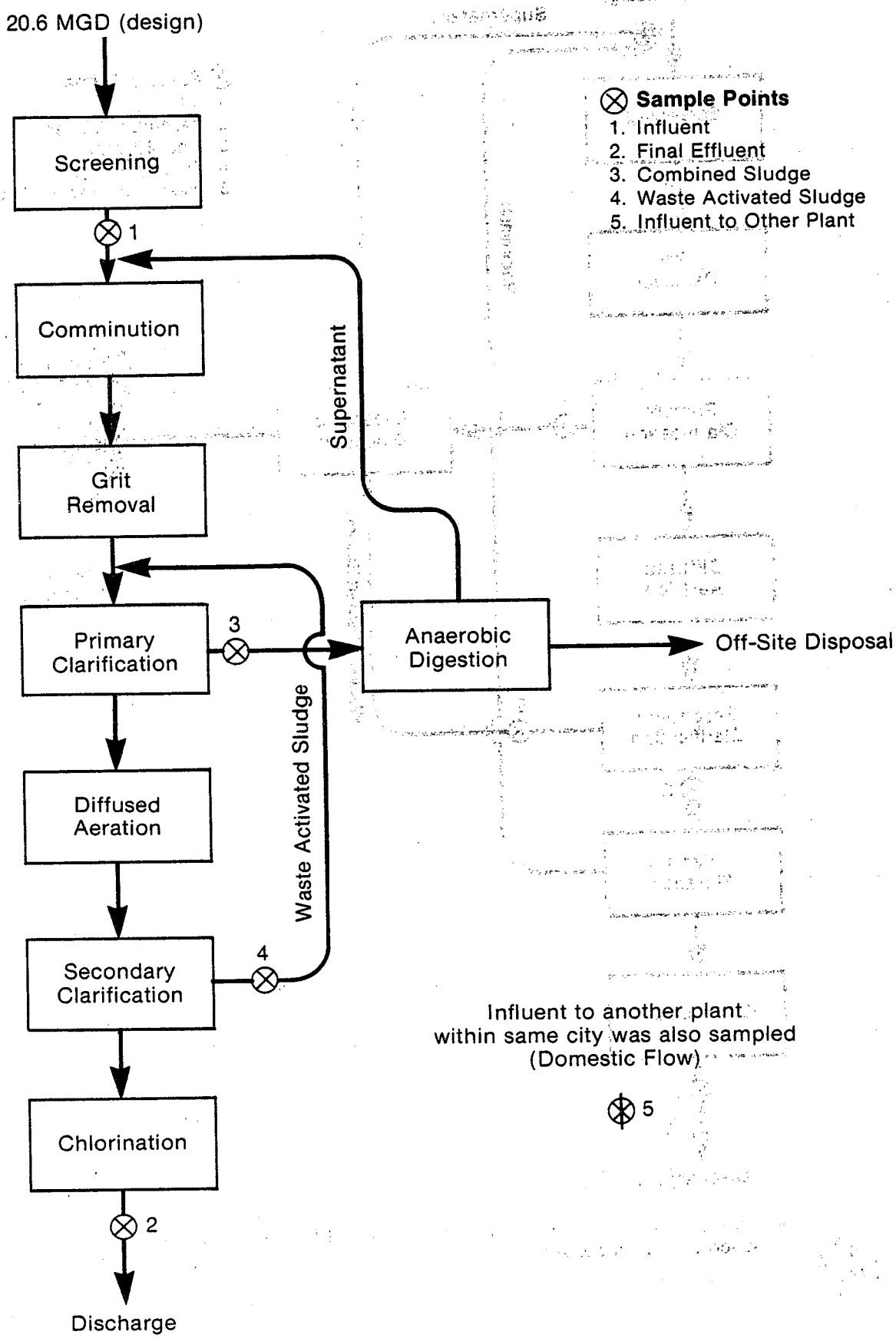
* — Waste Activated Sludge sample taken from Return Activated Sludge line.

FLOW DIAGRAM PLANT NO. 13

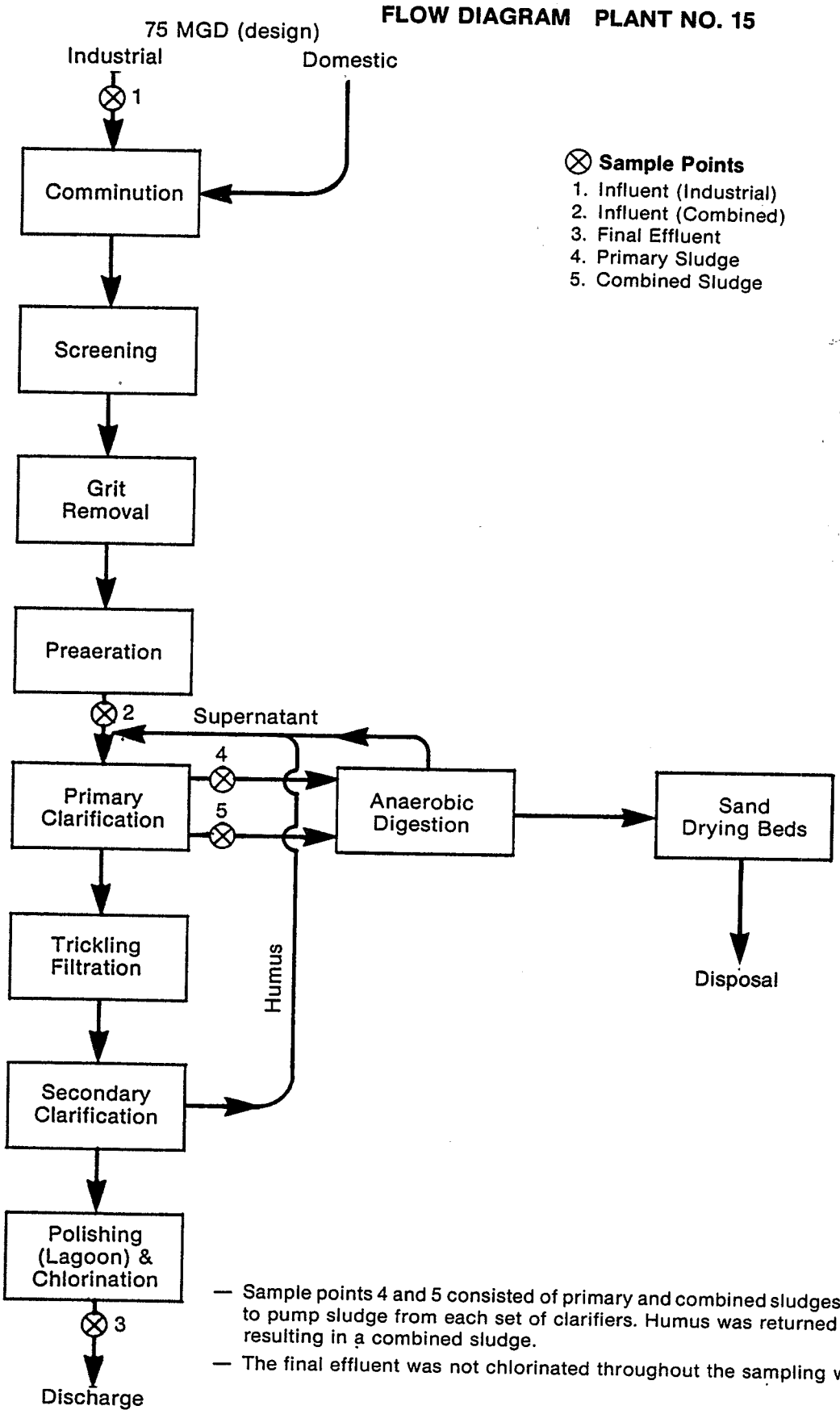


— Influent was sampled from one of two parallel wastewater streams **not** containing supernatant or backwash.

FLOW DIAGRAM PLANT NO. 14



FLOW DIAGRAM PLANT NO. 15



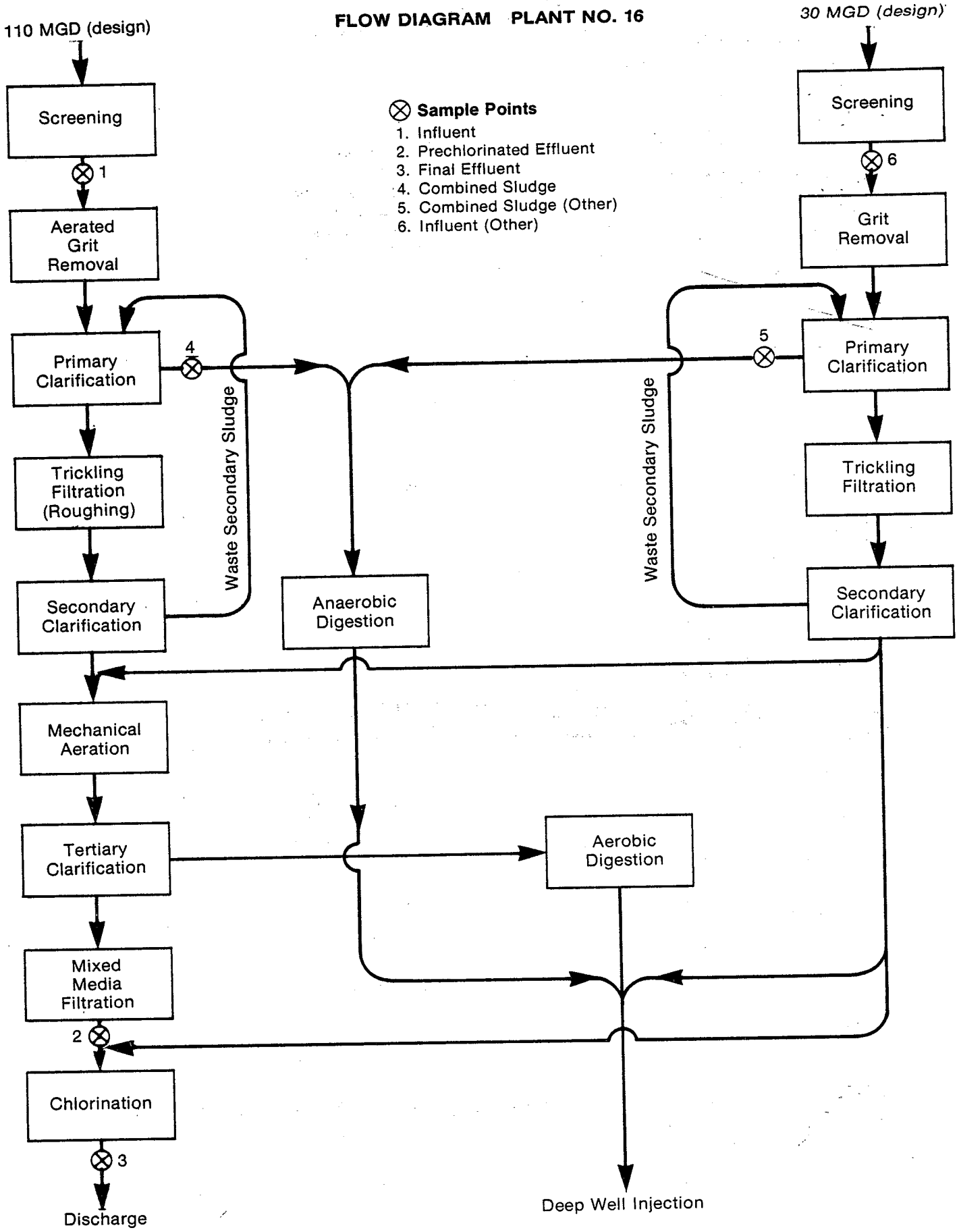
Sample Points

1. Influent (Industrial)
2. Influent (Combined)
3. Final Effluent
4. Primary Sludge
5. Combined Sludge

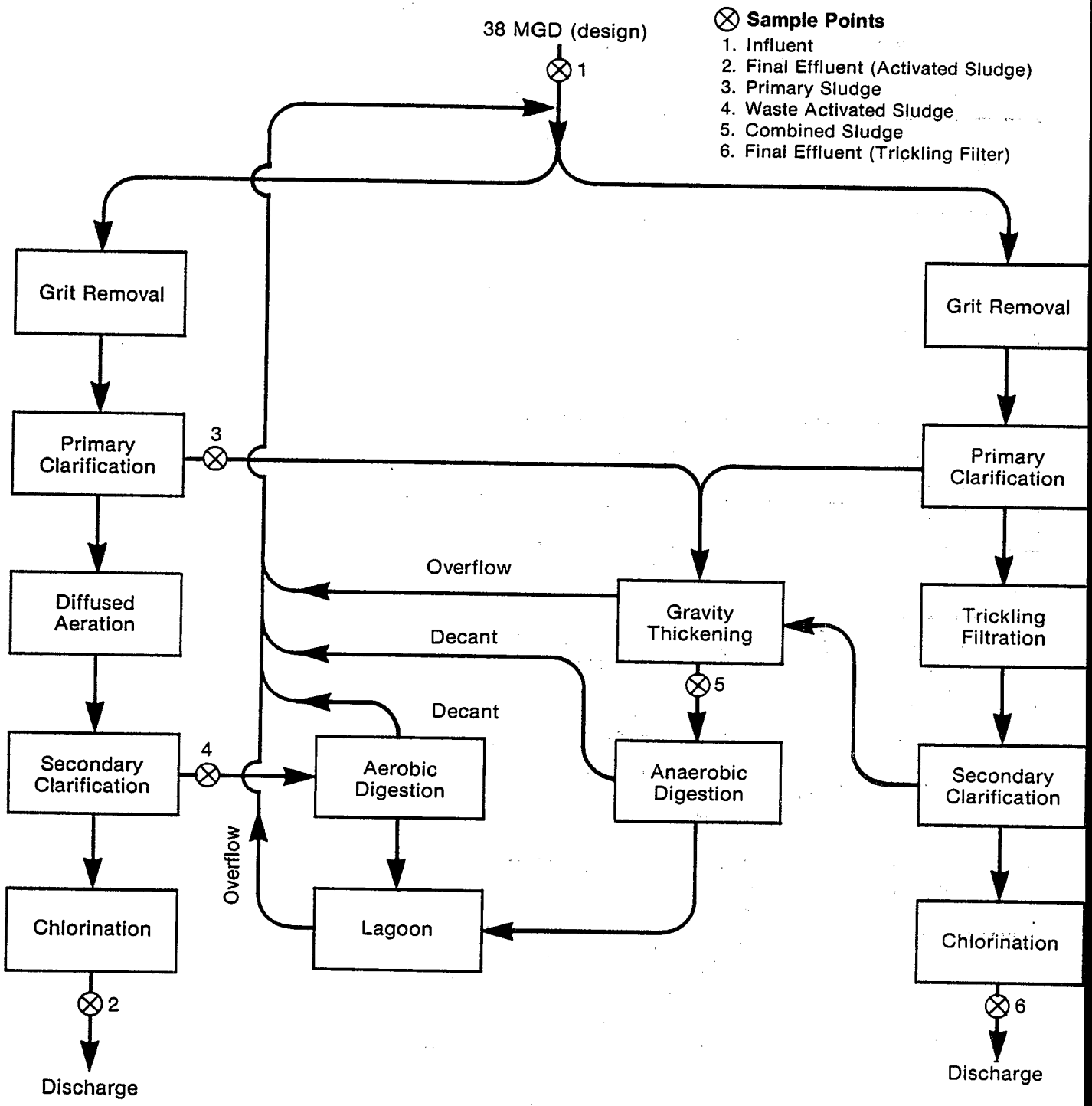
— Sample points 4 and 5 consisted of primary and combined sludges. One pump was utilized to pump sludge from each set of clarifiers. Humus was returned to one set of clarifiers resulting in a combined sludge.

— The final effluent was not chlorinated throughout the sampling week.

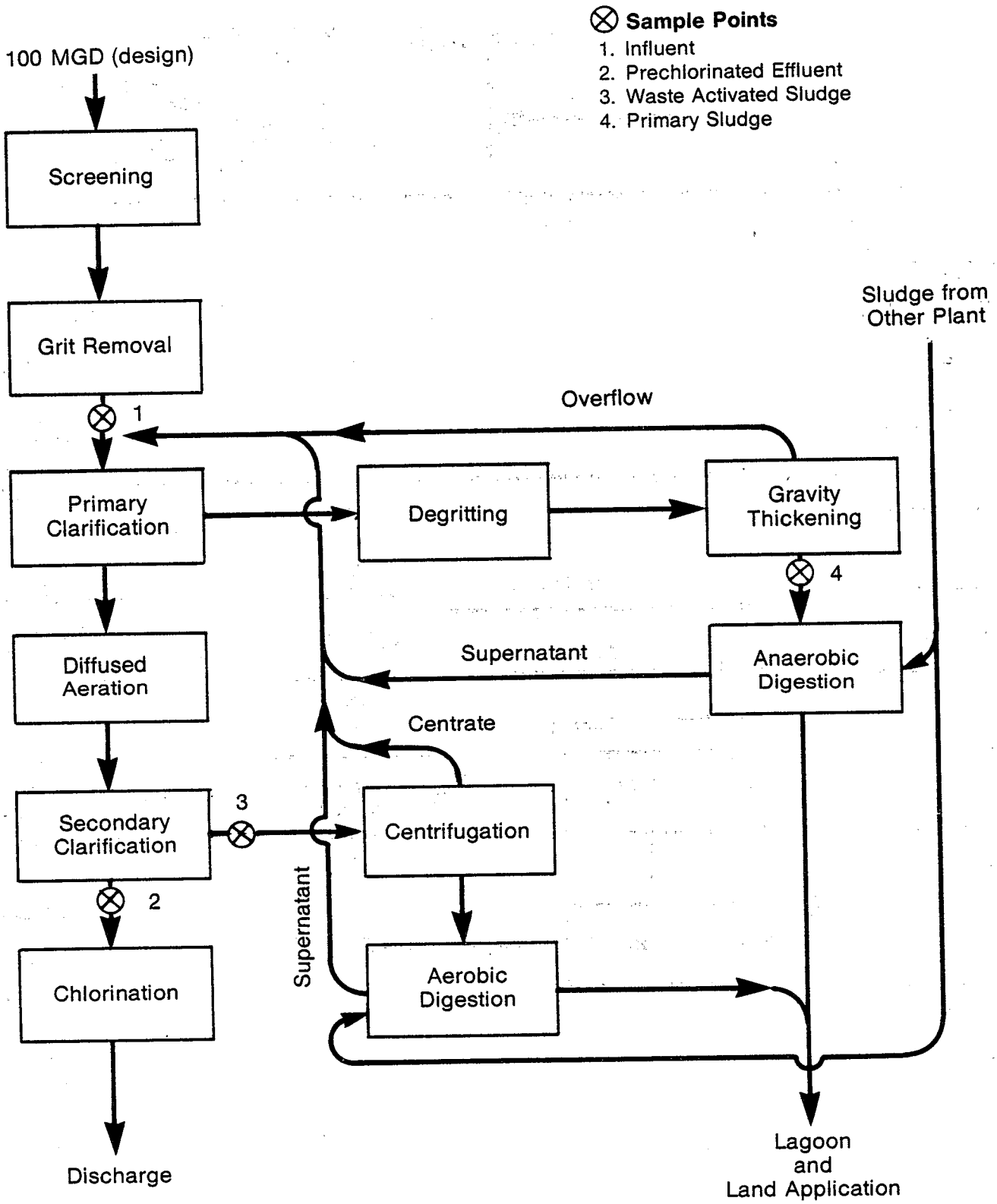
FLOW DIAGRAM PLANT NO. 16



FLOW DIAGRAM PLANT NO. 17

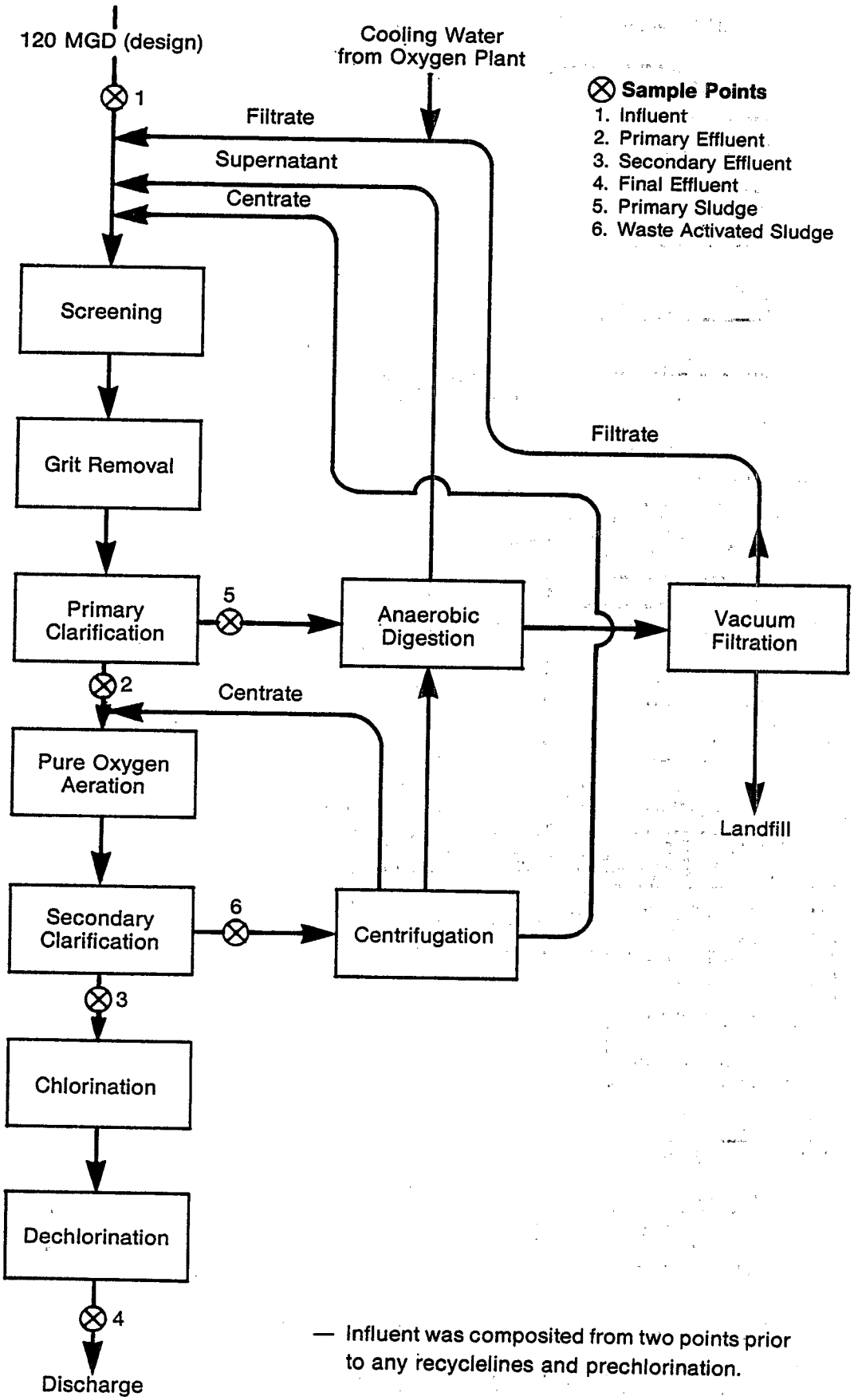


FLOW DIAGRAM PLANT NO. 18



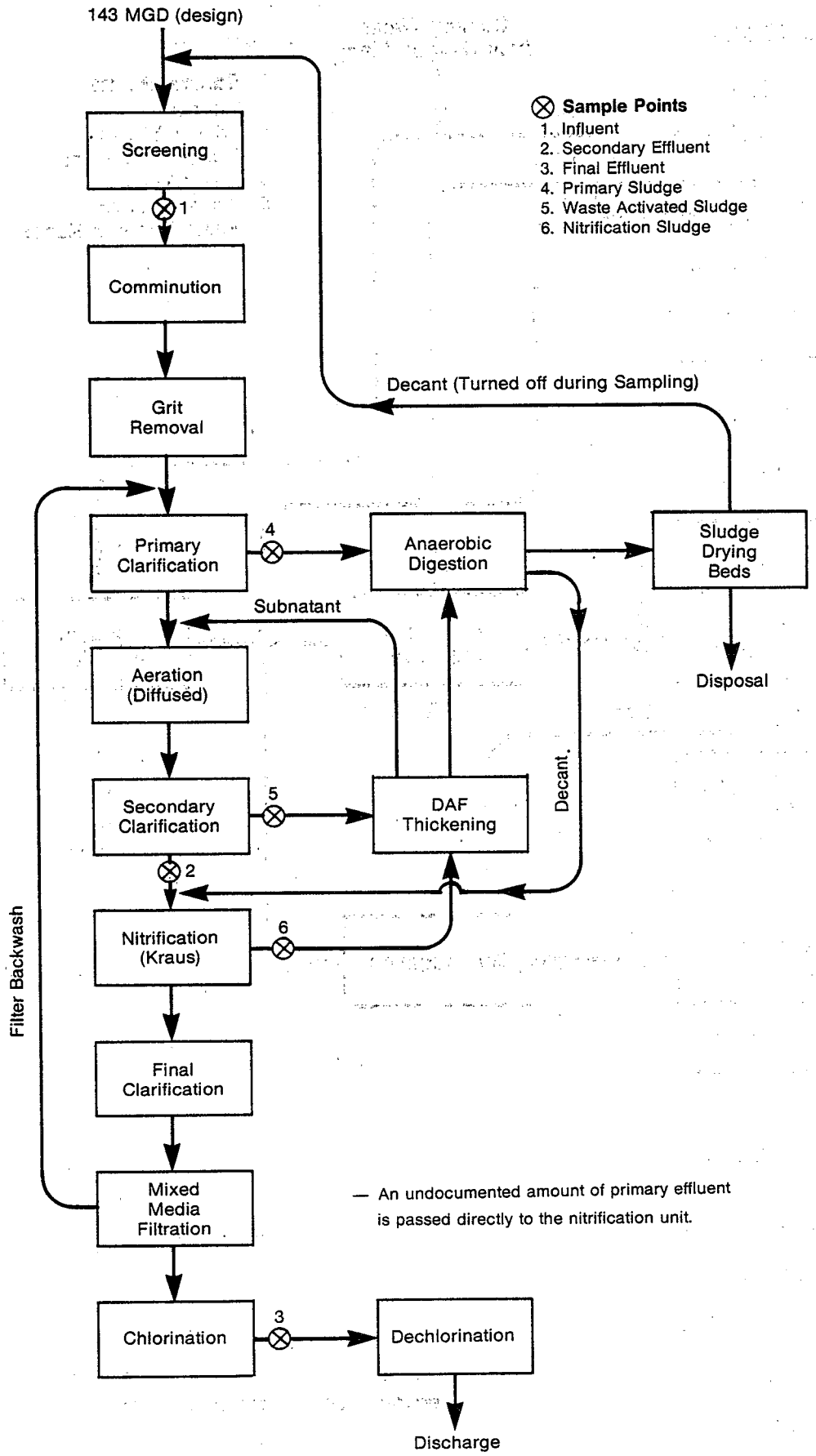
— Sludge from two other POTWs accounts for approximately 10% of the total sludge.

FLOW DIAGRAM PLANT NO. 19

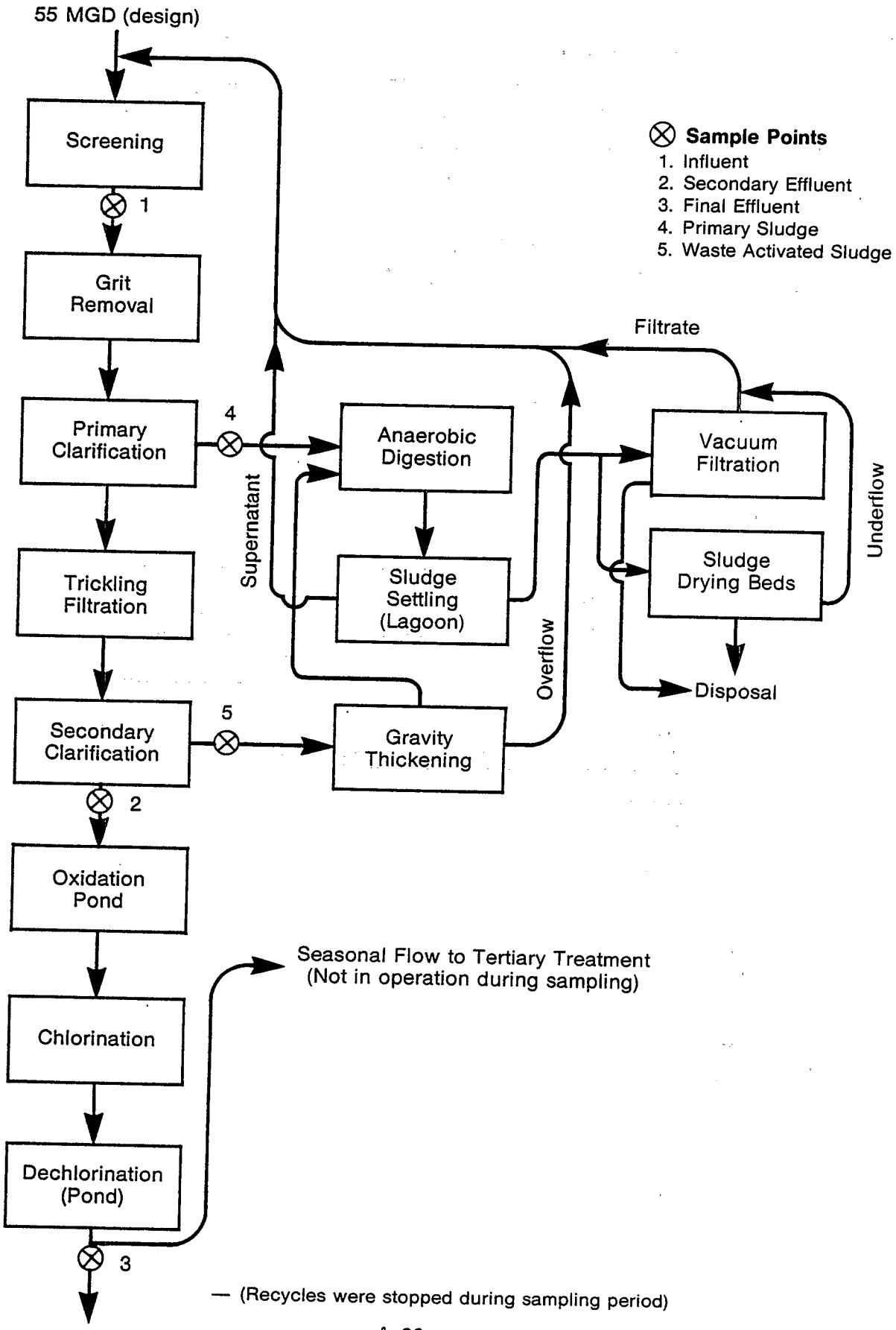


— Influent was composited from two points prior to any recyclelines and prechlorination.

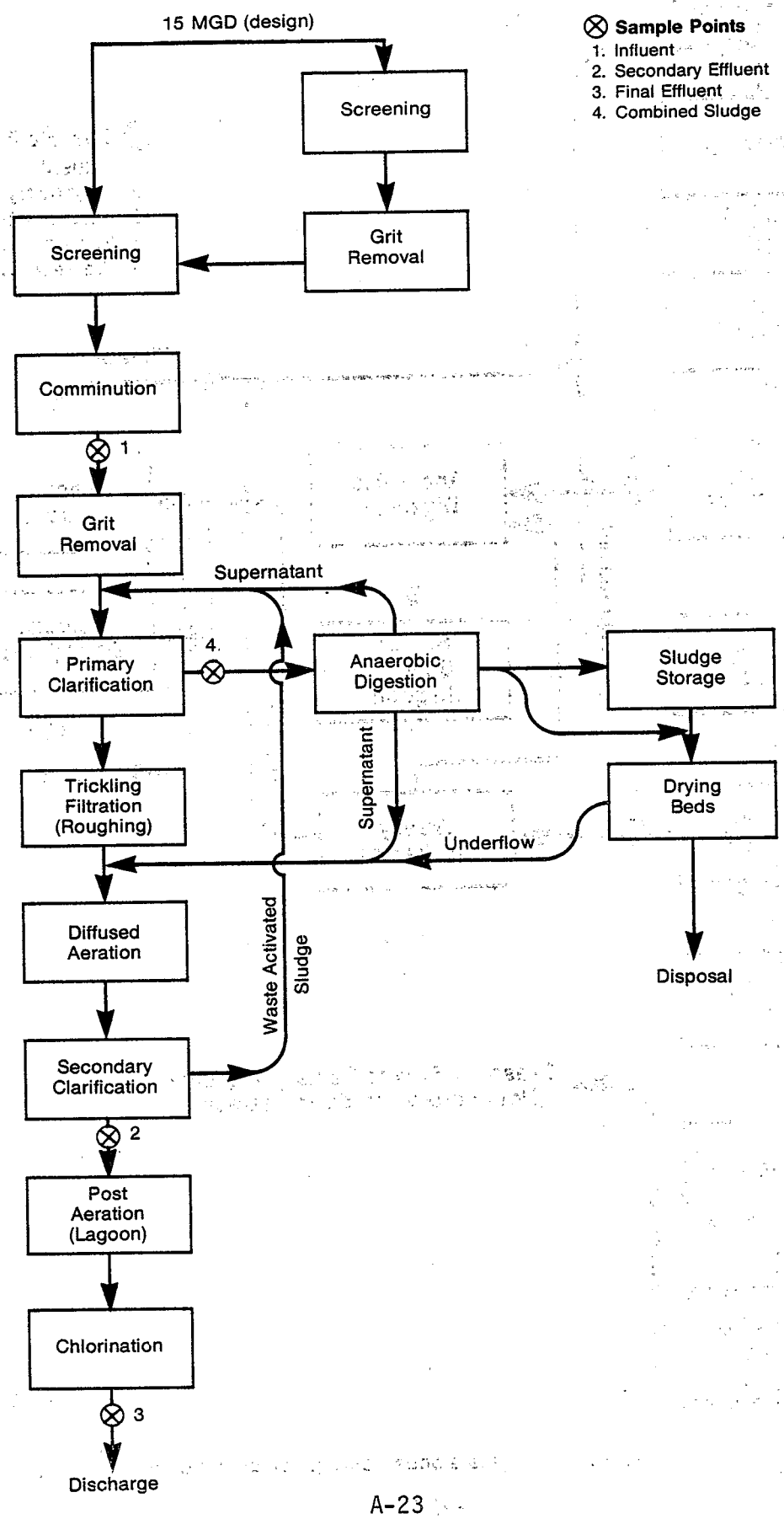
FLOW DIAGRAM PLANT NO. 20



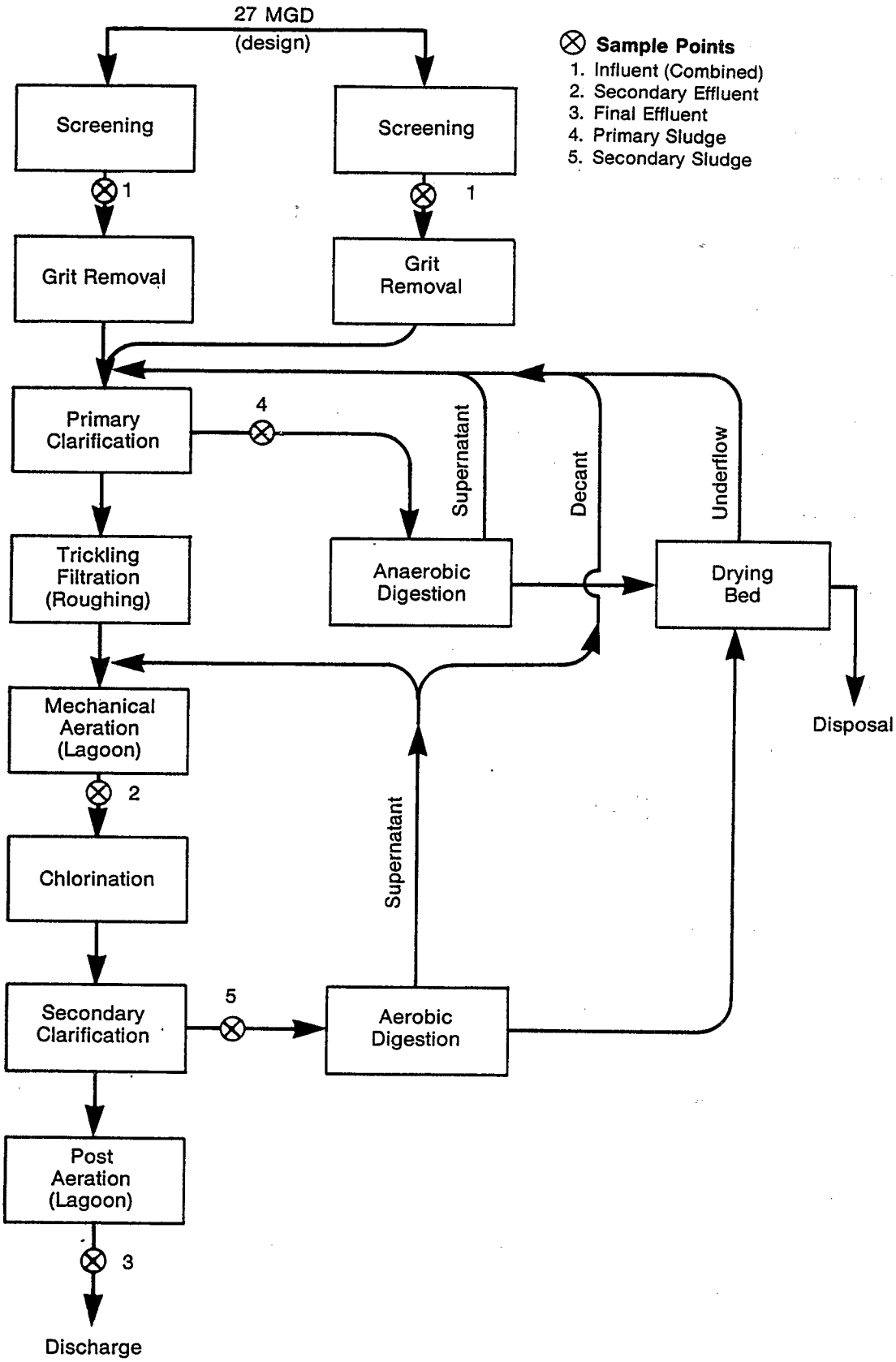
FLOW DIAGRAM PLANT NO. 21



FLOW DIAGRAM PLANT NO. 22

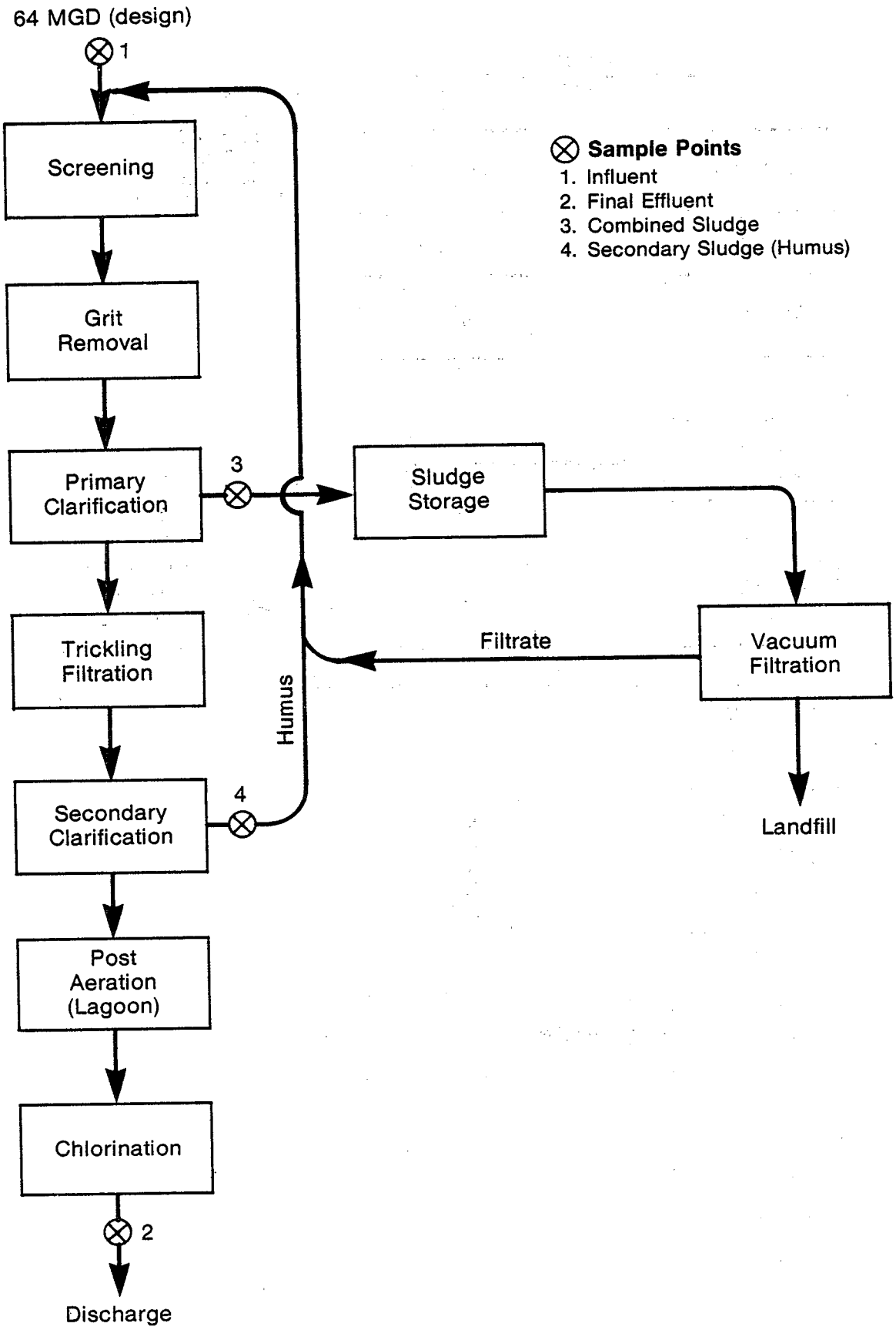


FLOW DIAGRAM PLANT NO. 23

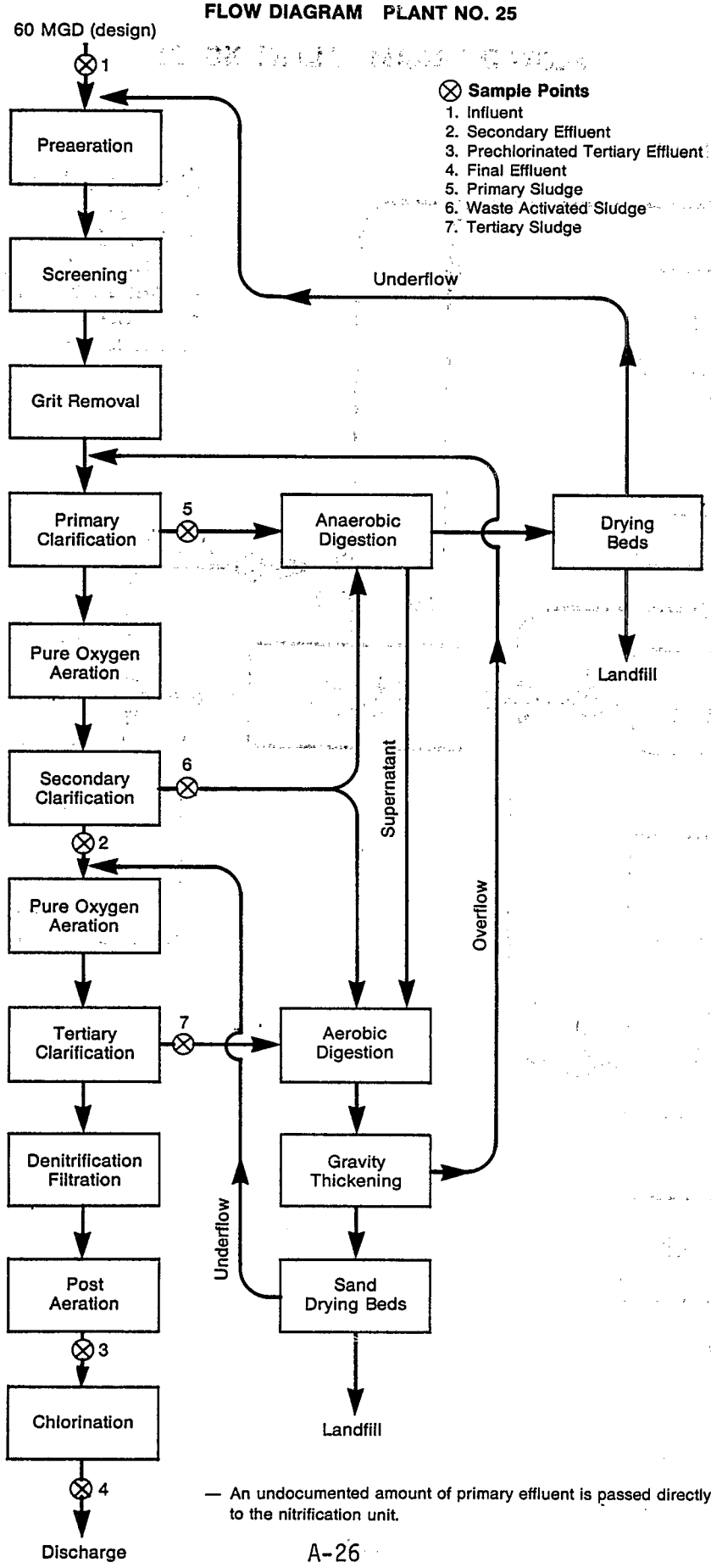


— Influent samples were flow proportioned.

FLOW DIAGRAM PLANT NO. 24

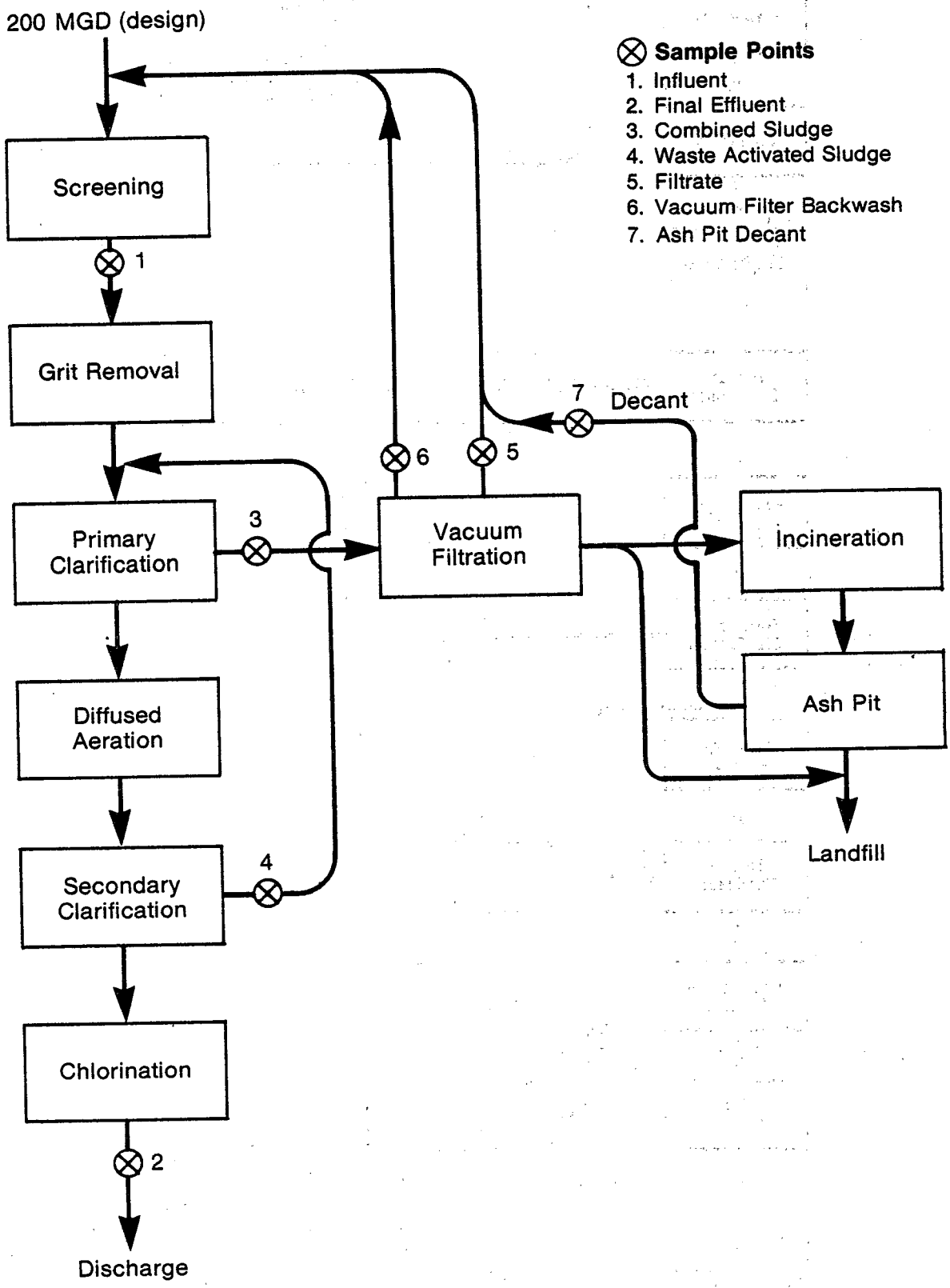


FLOW DIAGRAM PLANT NO. 25

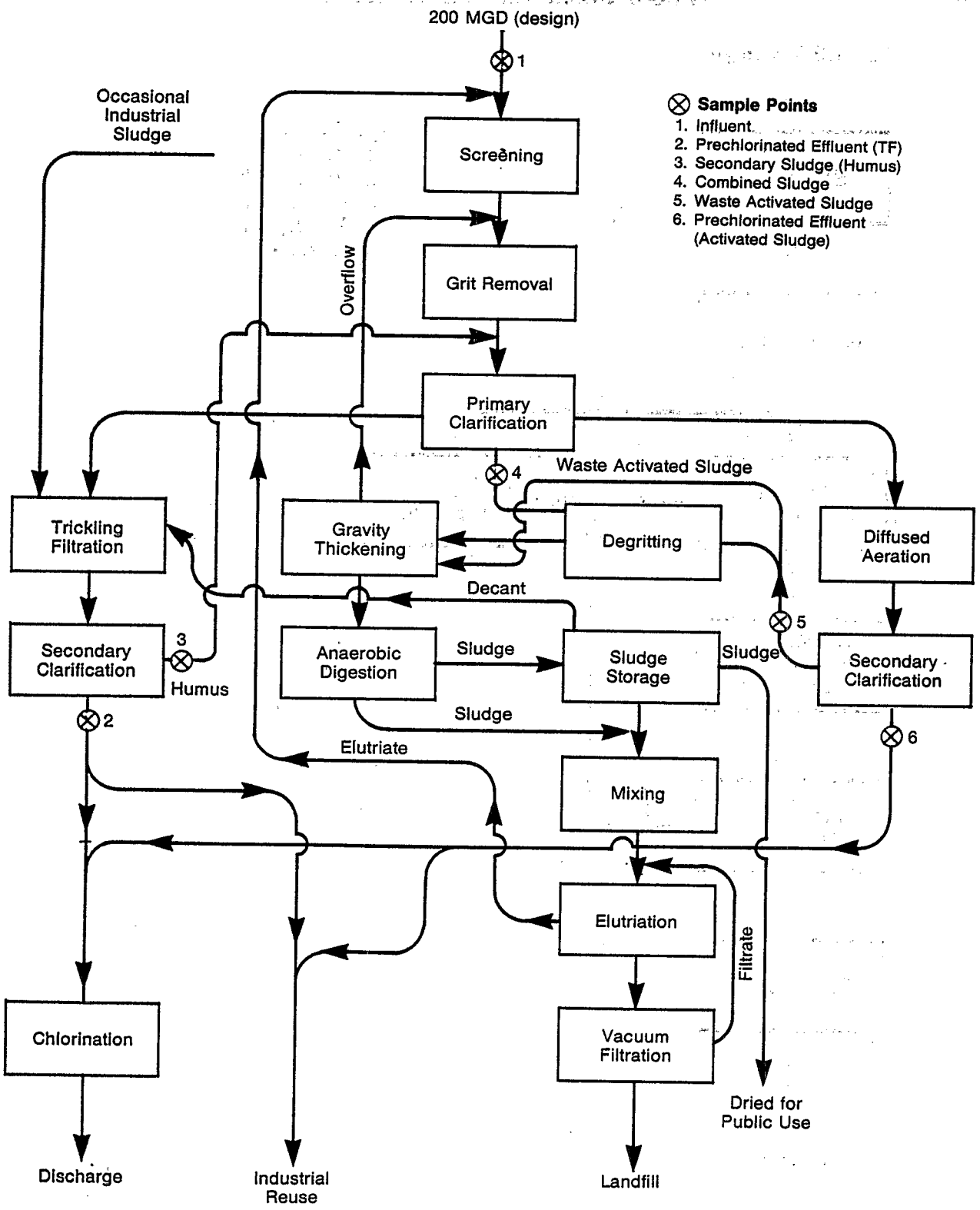


— An undocumented amount of primary effluent is passed directly to the nitrification unit.

FLOW DIAGRAM PLANT NO. 26



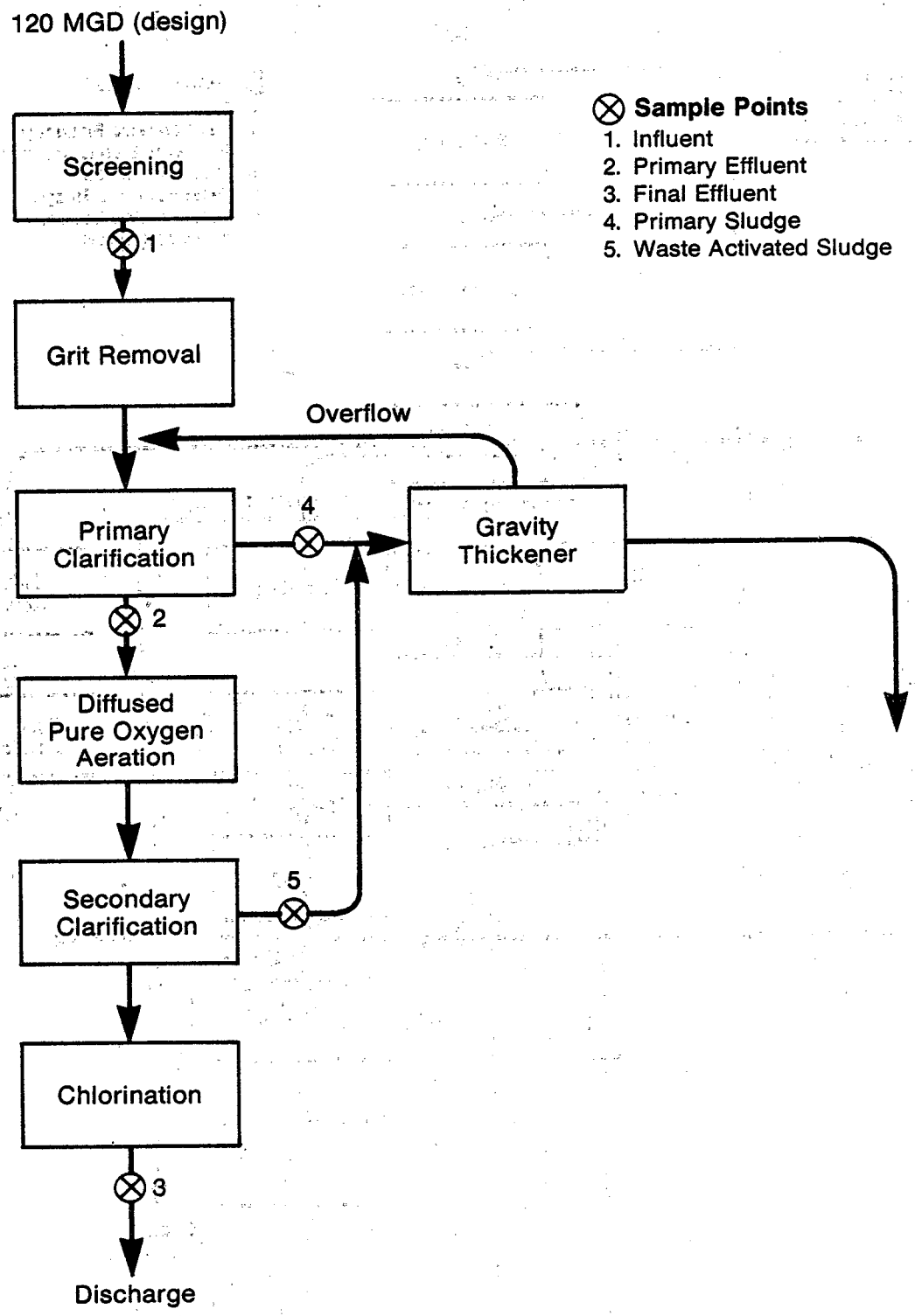
FLOW DIAGRAM PLANT NO. 27



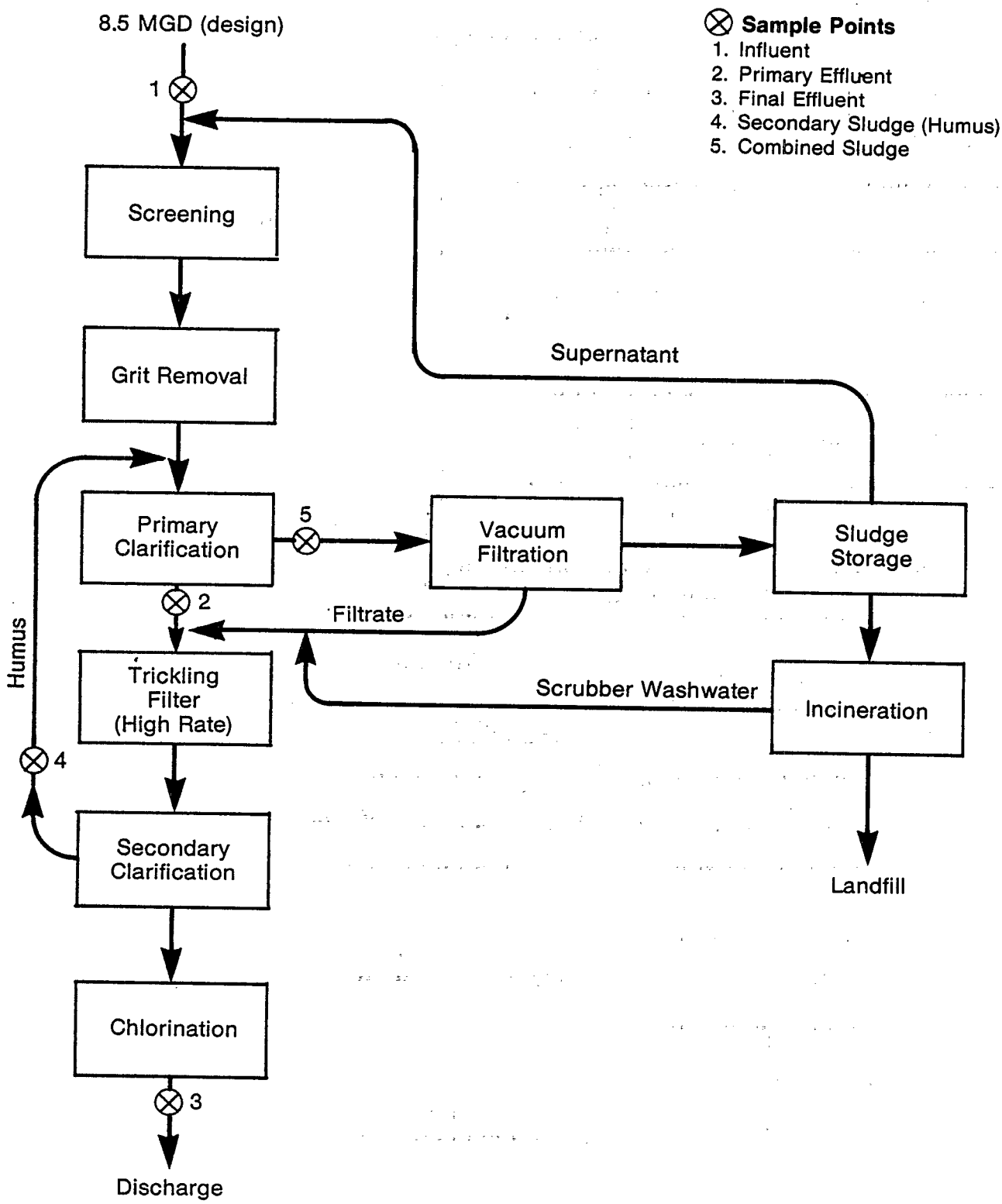
— A portion of the unchlorinated secondary effluent was used for production water at a local industry.

— No supernatant is withdrawn from anaerobic digester.

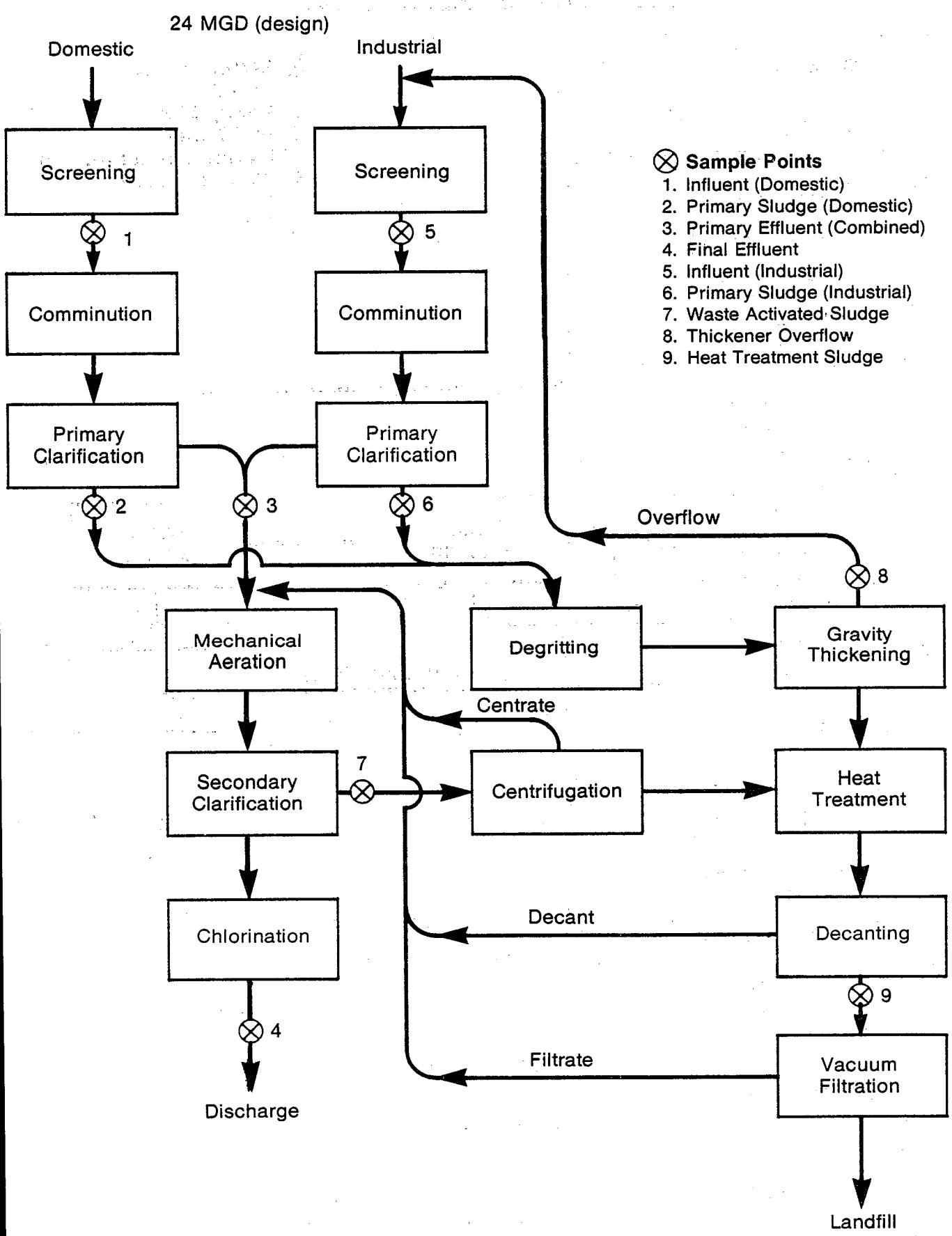
FLOW DIAGRAM PLANT NO. 28



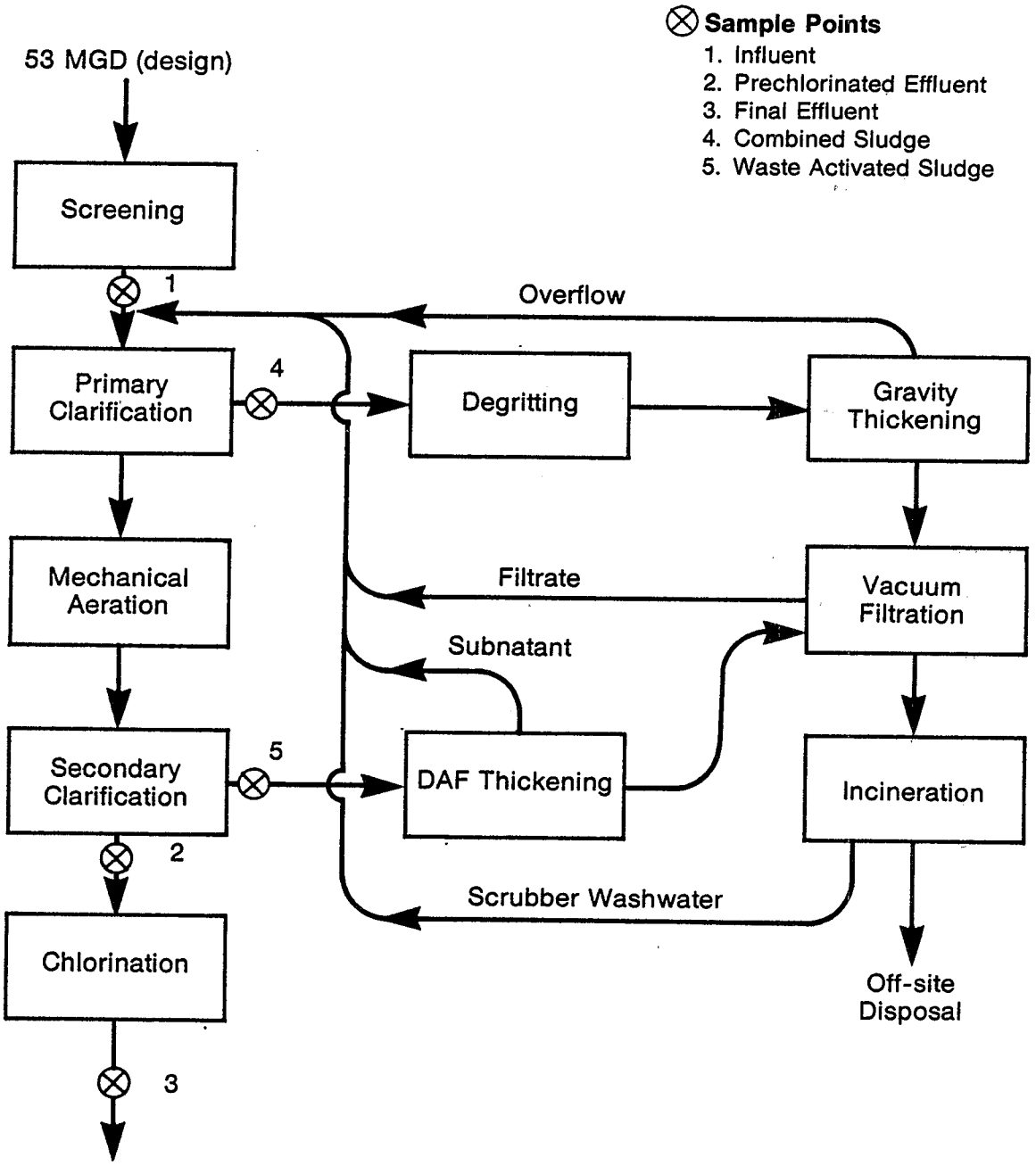
FLOW DIAGRAM PLANT NO. 29



FLOW DIAGRAM PLANT NO. 30

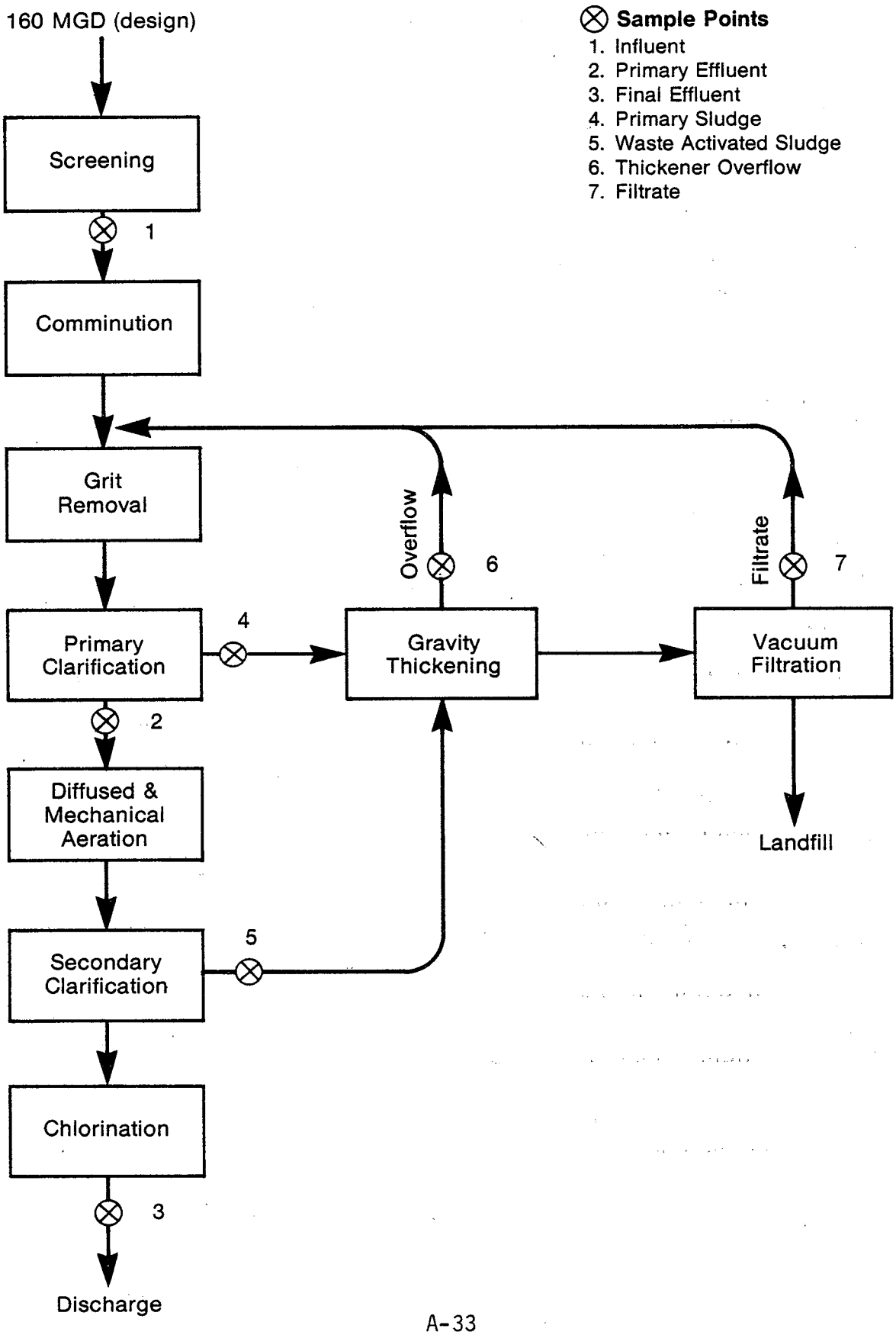


FLOW DIAGRAM PLANT NO. 31

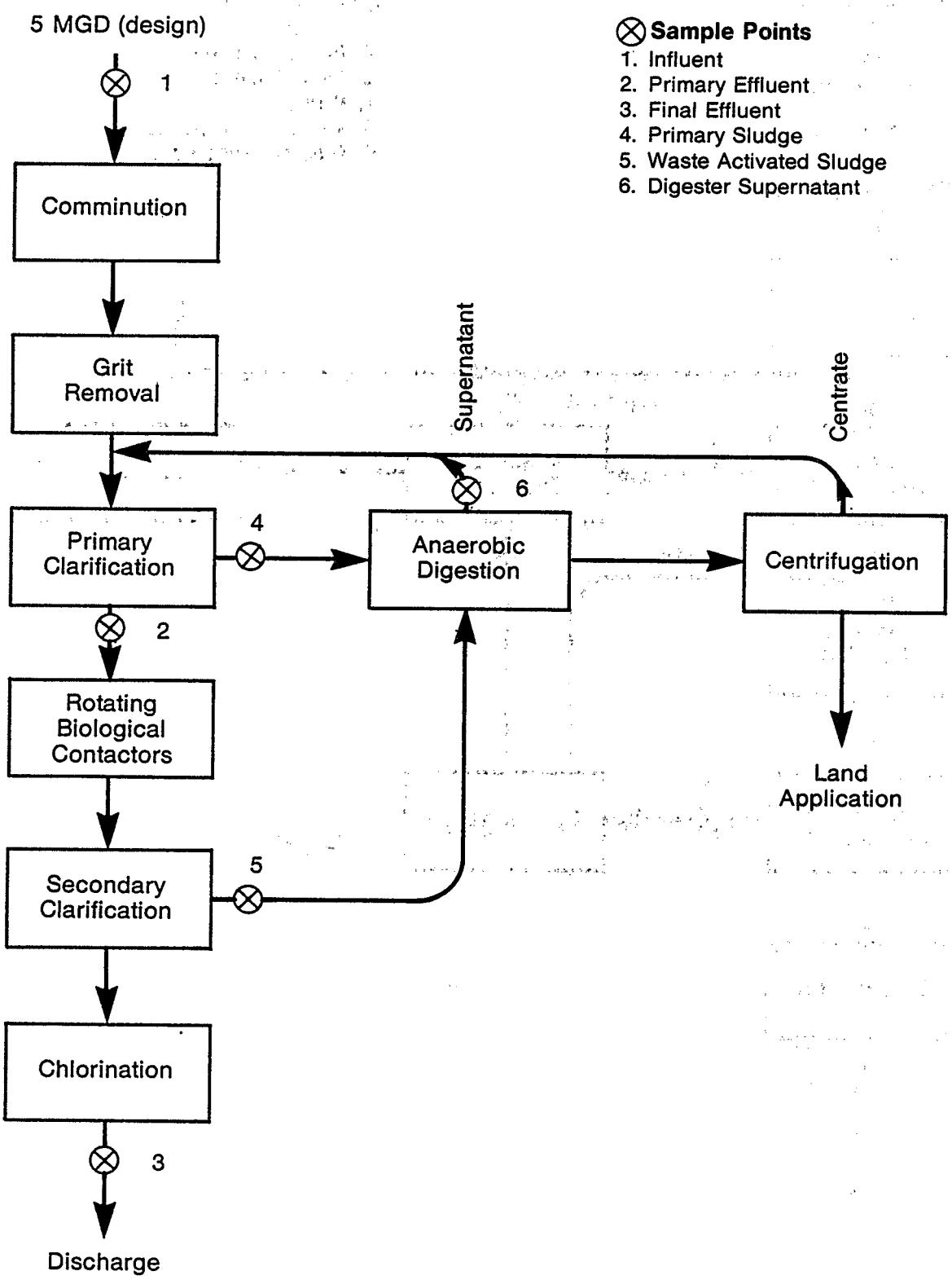


— If the waste activated sludge is not returned to the primary clarification unit, both sludges are treated separately and combined in the vacuum filtration unit prior to incineration.

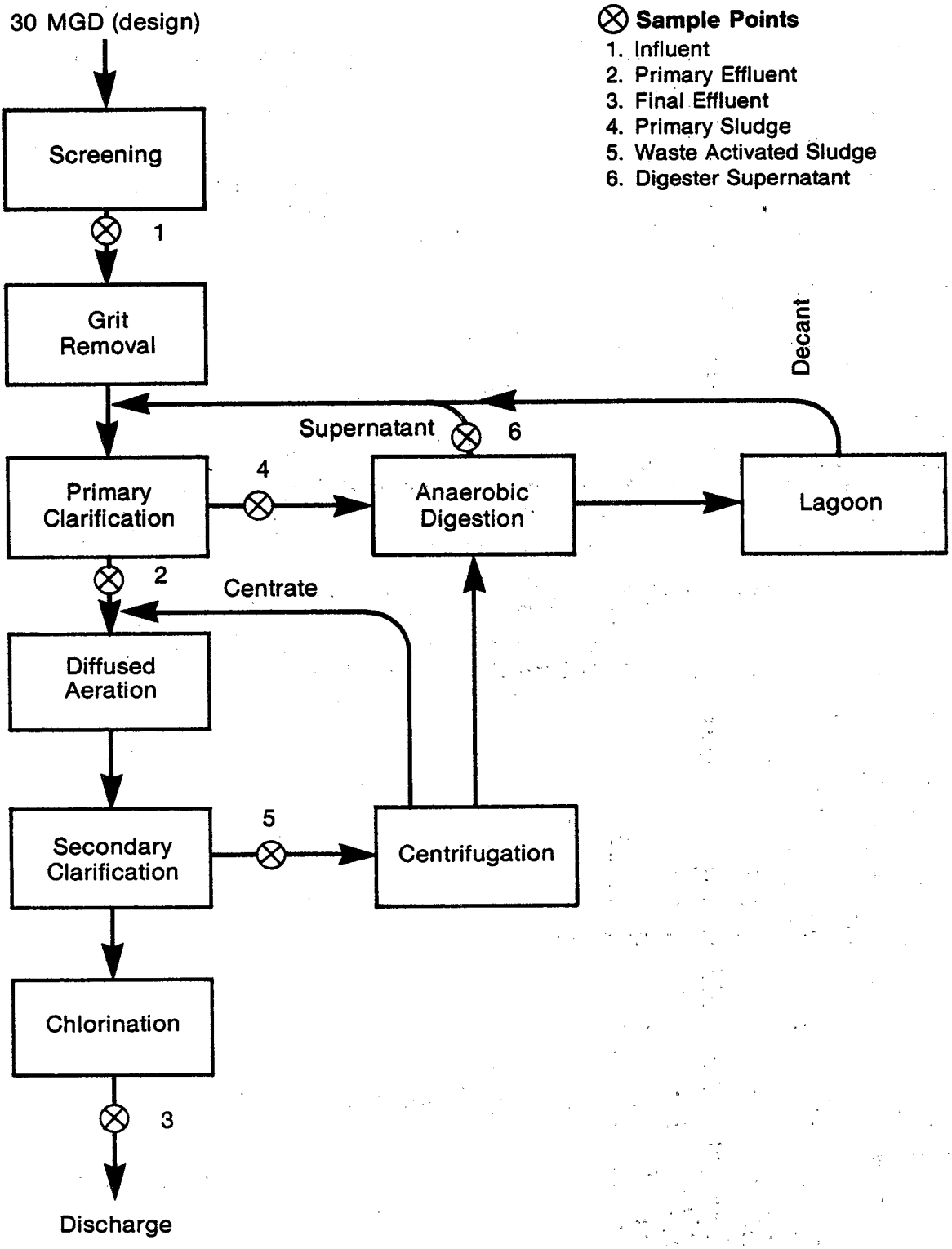
FLOW DIAGRAM PLANT NO. 32



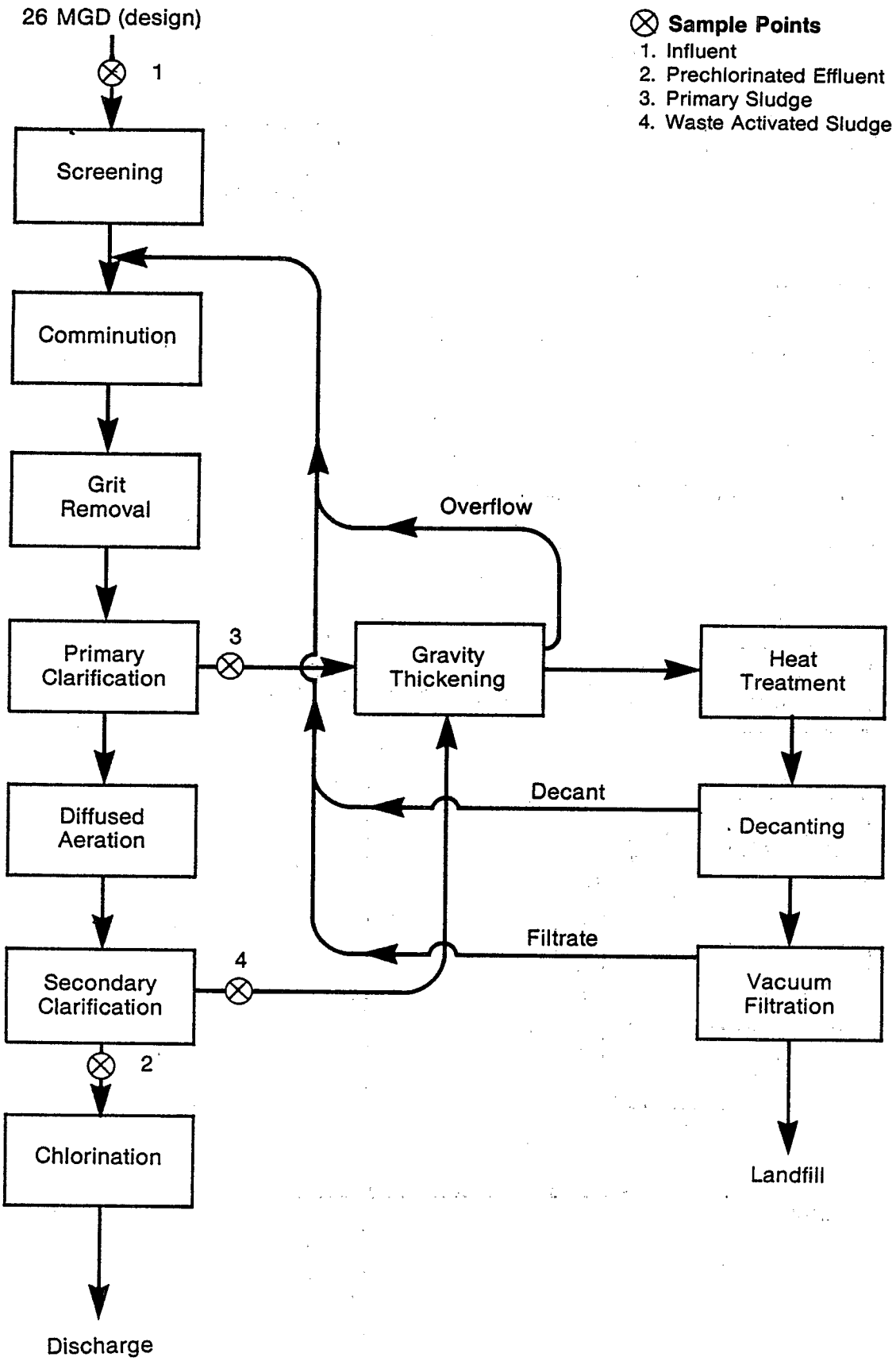
FLOW DIAGRAM PLANT NO. 33



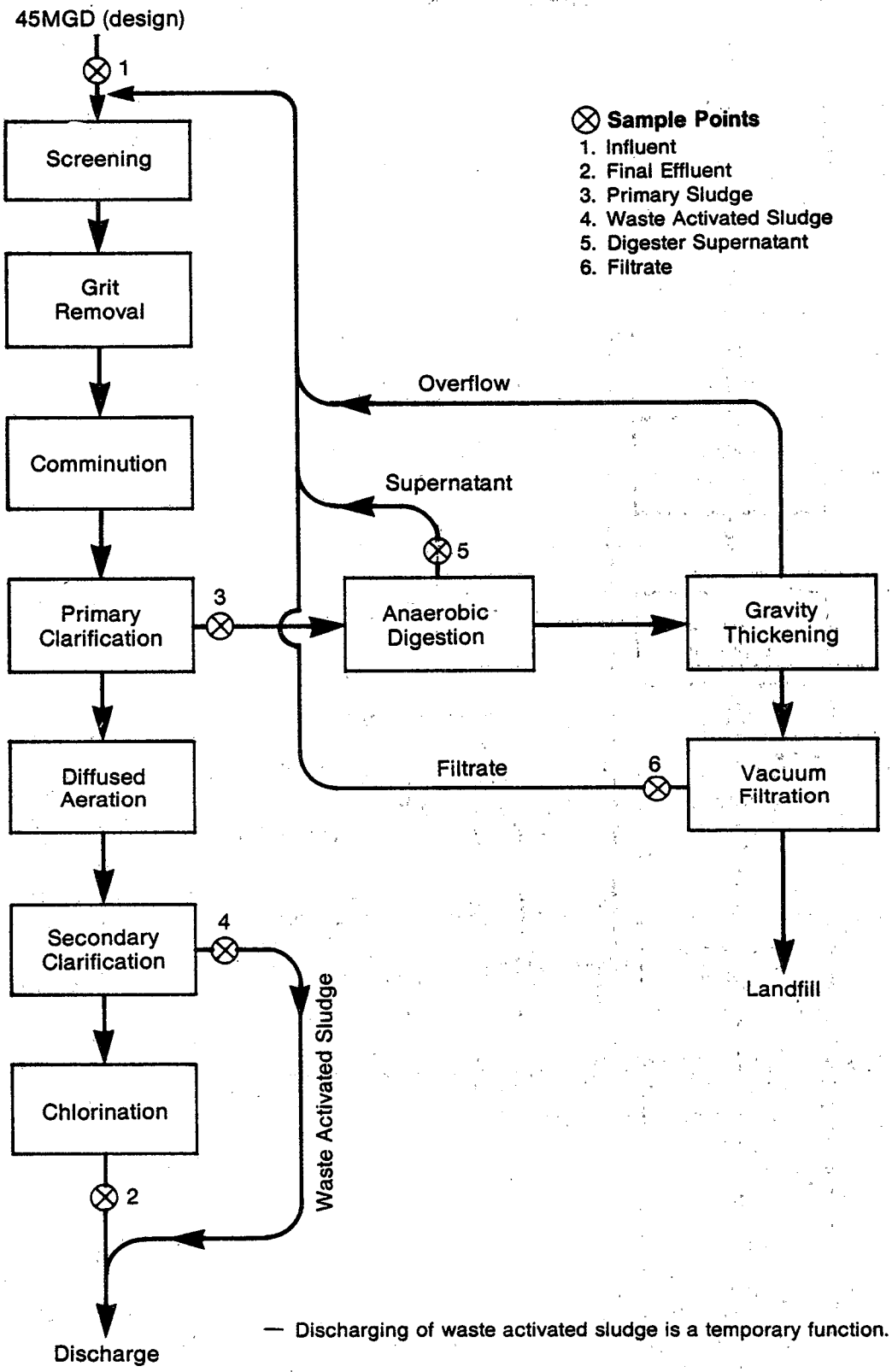
FLOW DIAGRAM PLANT NO. 34



FLOW DIAGRAM PLANT NO. 35



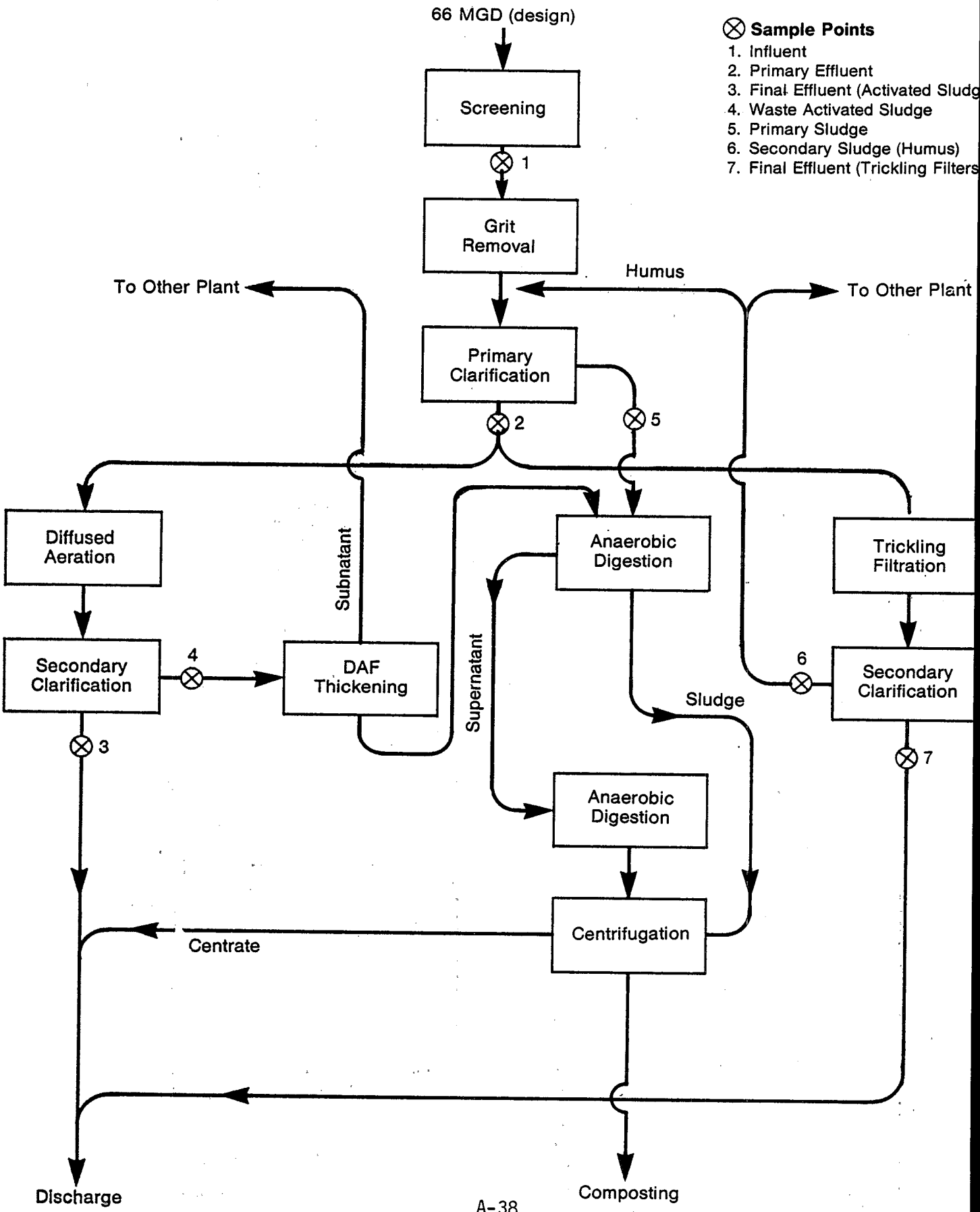
FLOW DIAGRAM PLANT NO. 36



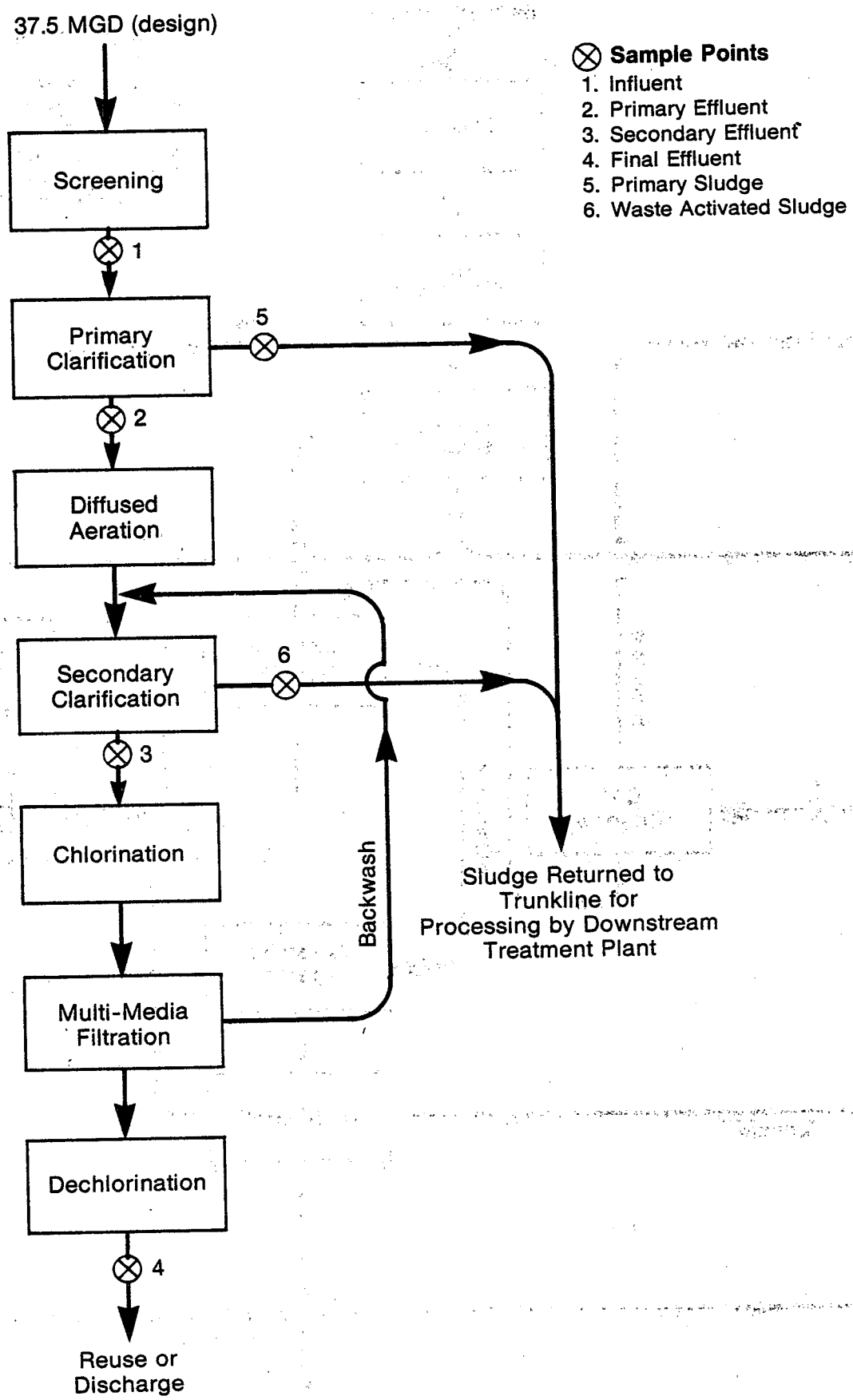
— Discharging of waste activated sludge is a temporary function.

— Gravity thickener is utilized only during the winter.

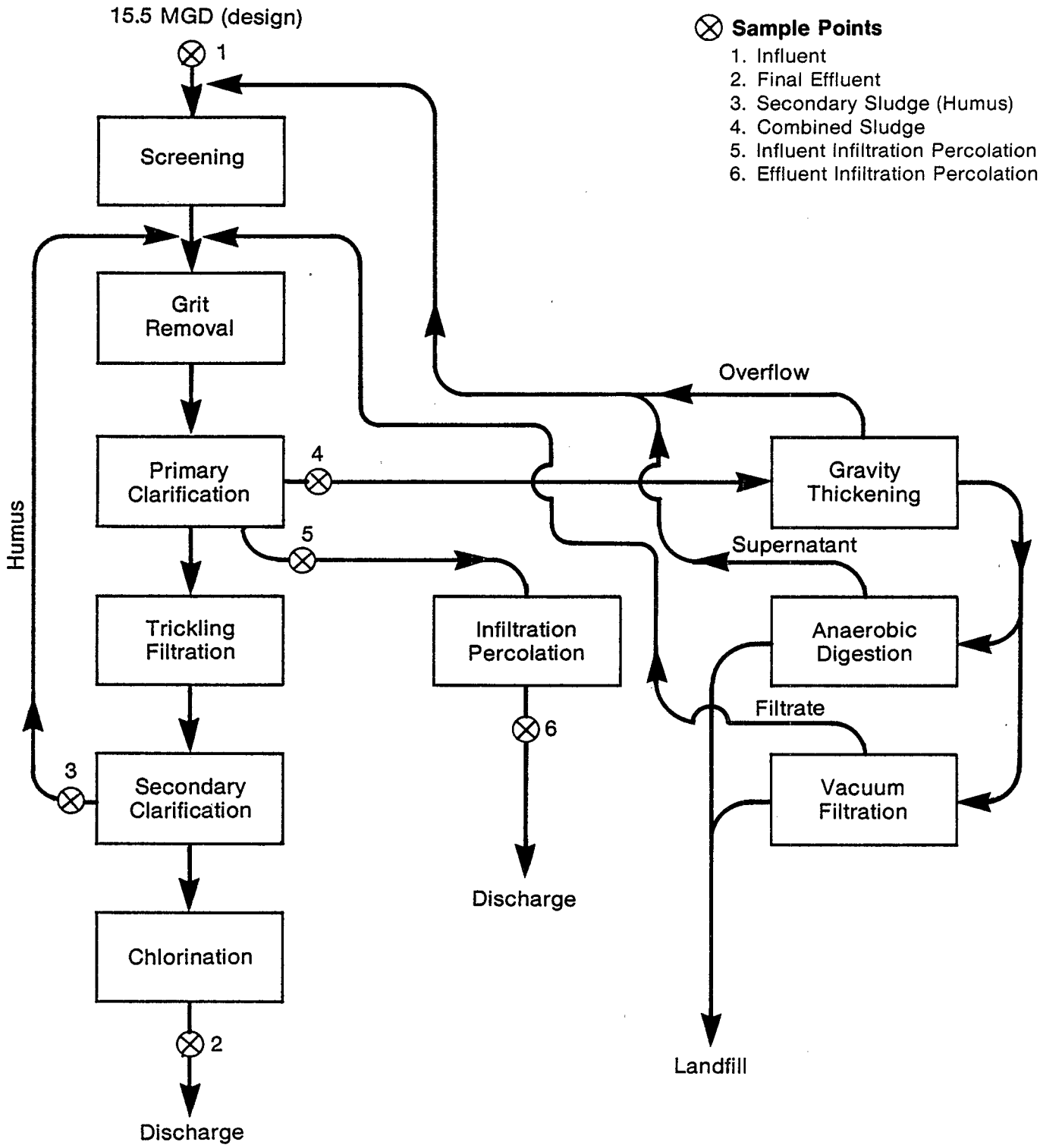
FLOW DIAGRAM PLANT NO. 37



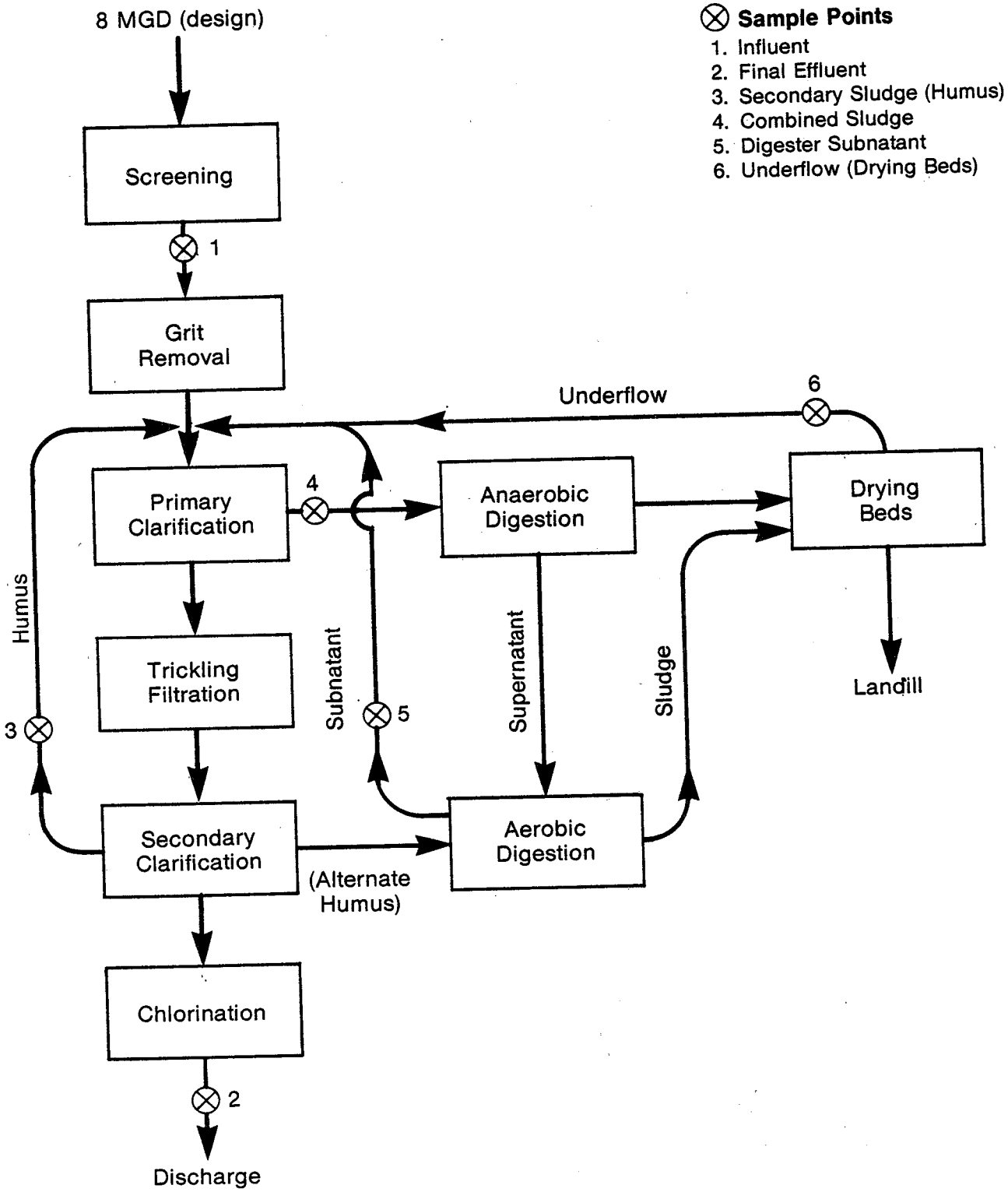
FLOW DIAGRAM PLANT NO. 38



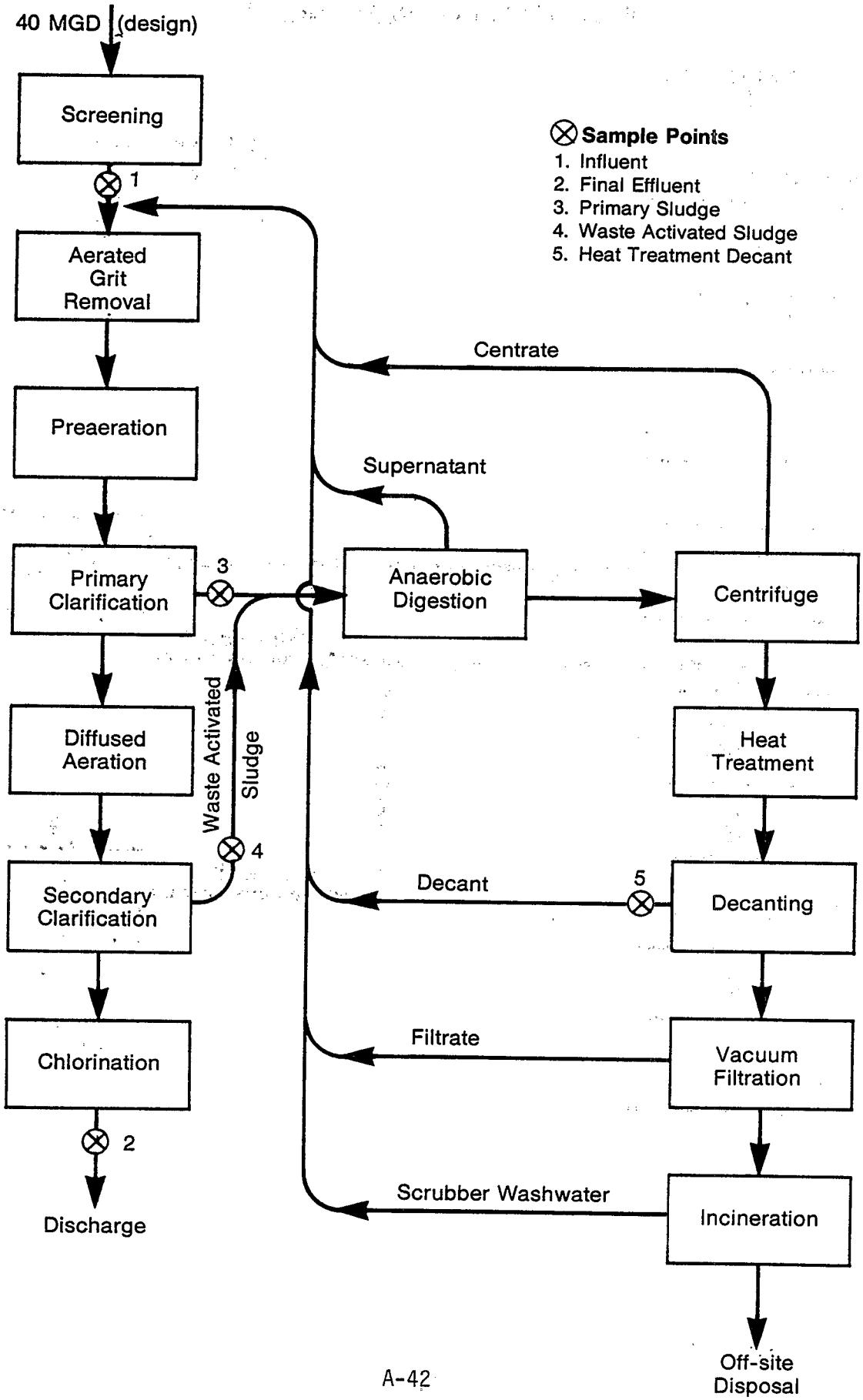
FLOW DIAGRAM PLANT NO. 39



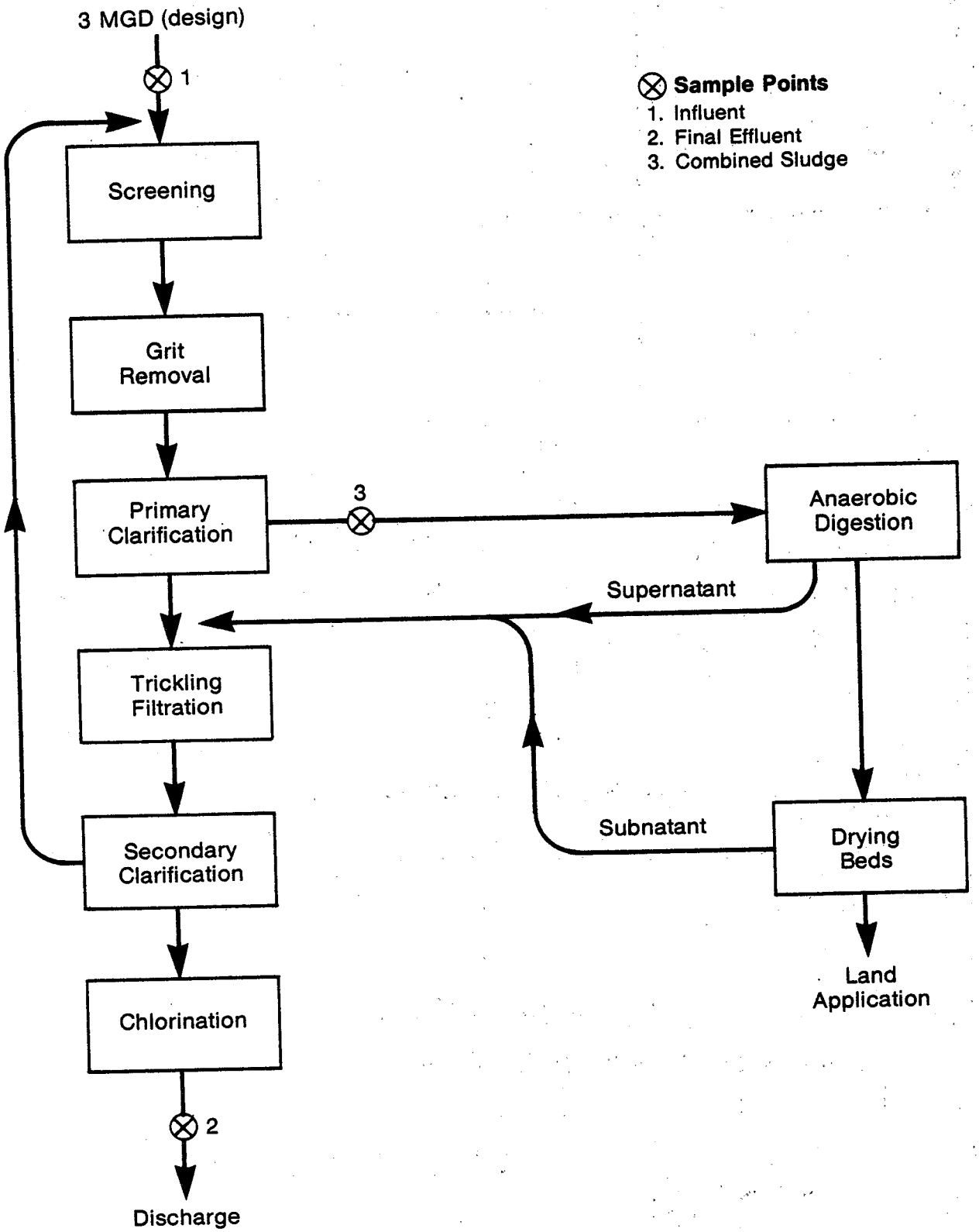
FLOW DIAGRAM PLANT NO. 40



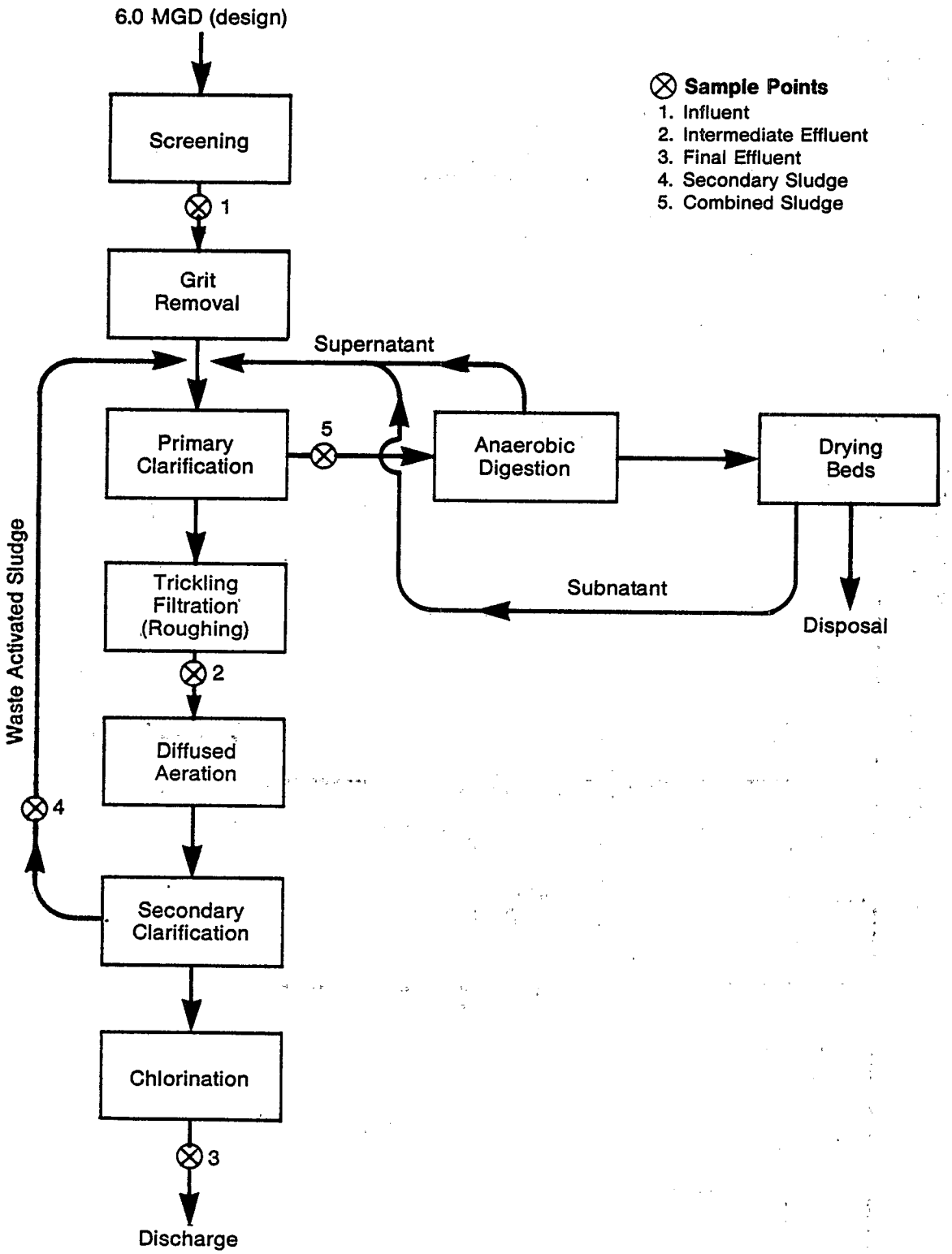
FLOW DIAGRAM PLANT NO. 51



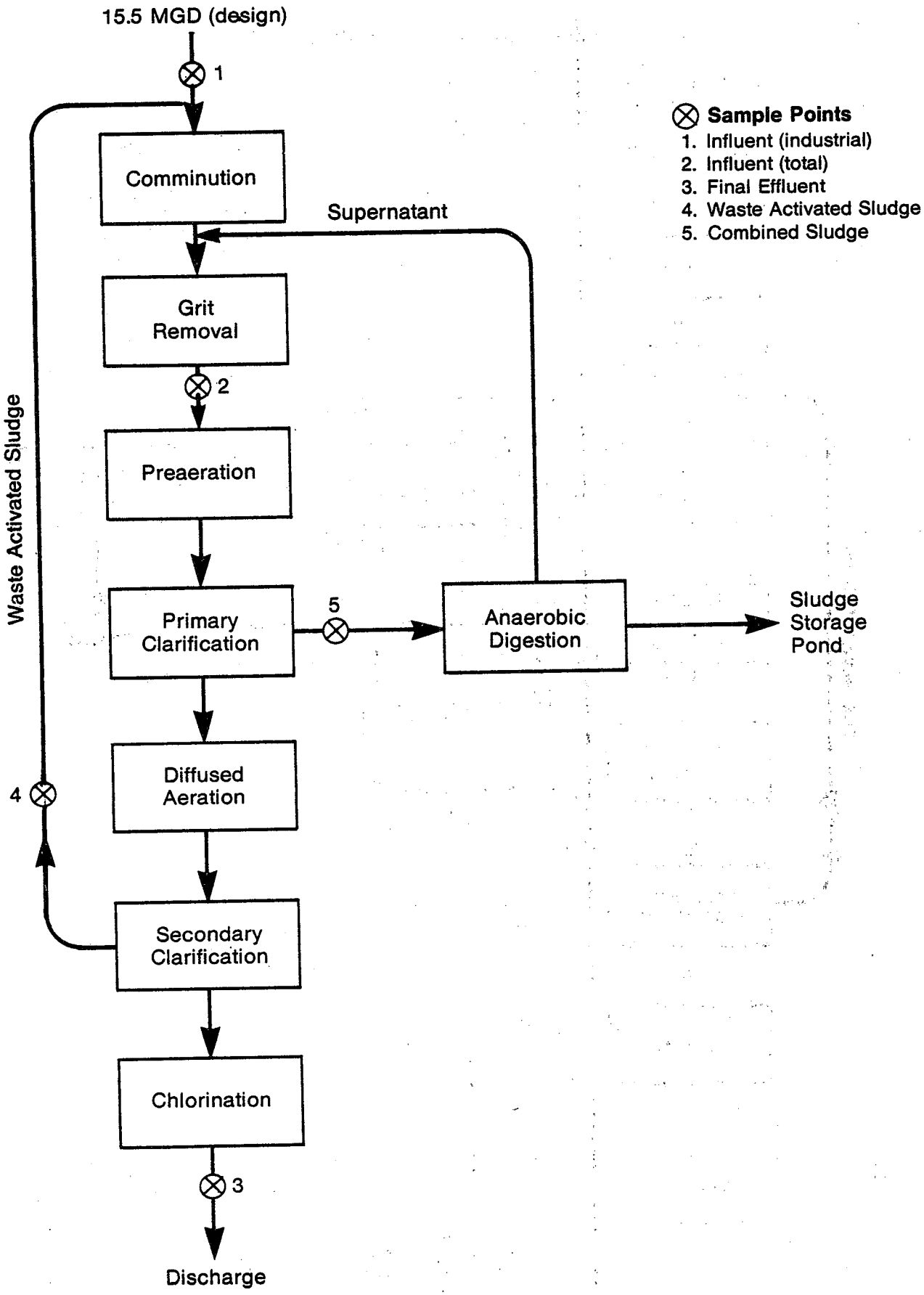
FLOW DIAGRAM PLANT NO. 52



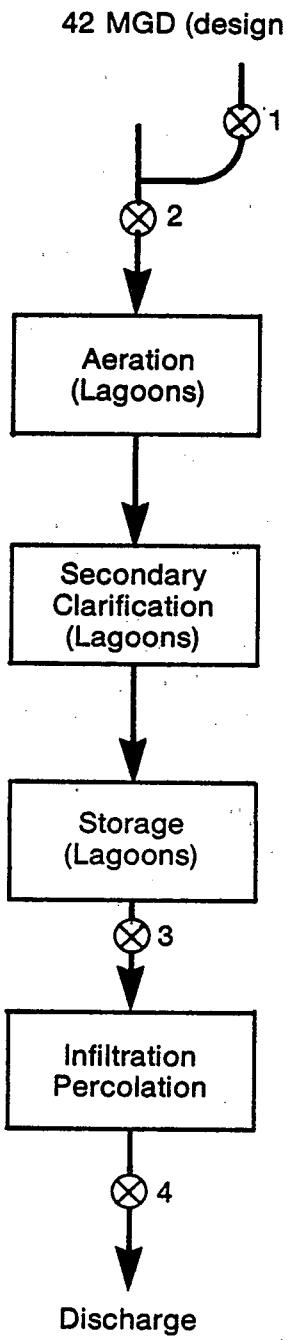
FLOW DIAGRAM PLANT NO. 53



FLOW DIAGRAM PLANT NO. 54



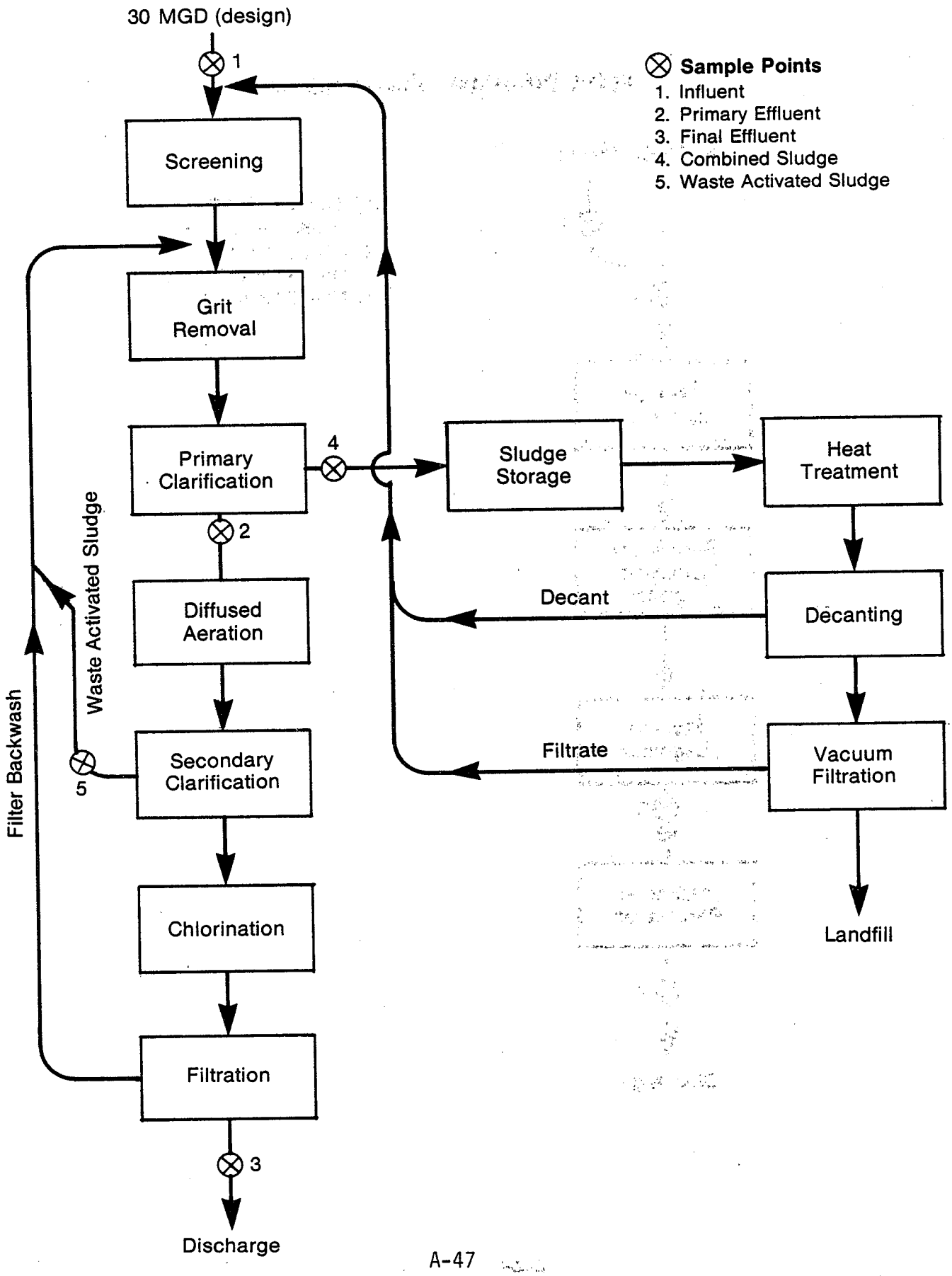
FLOW DIAGRAM PLANT NO. 55



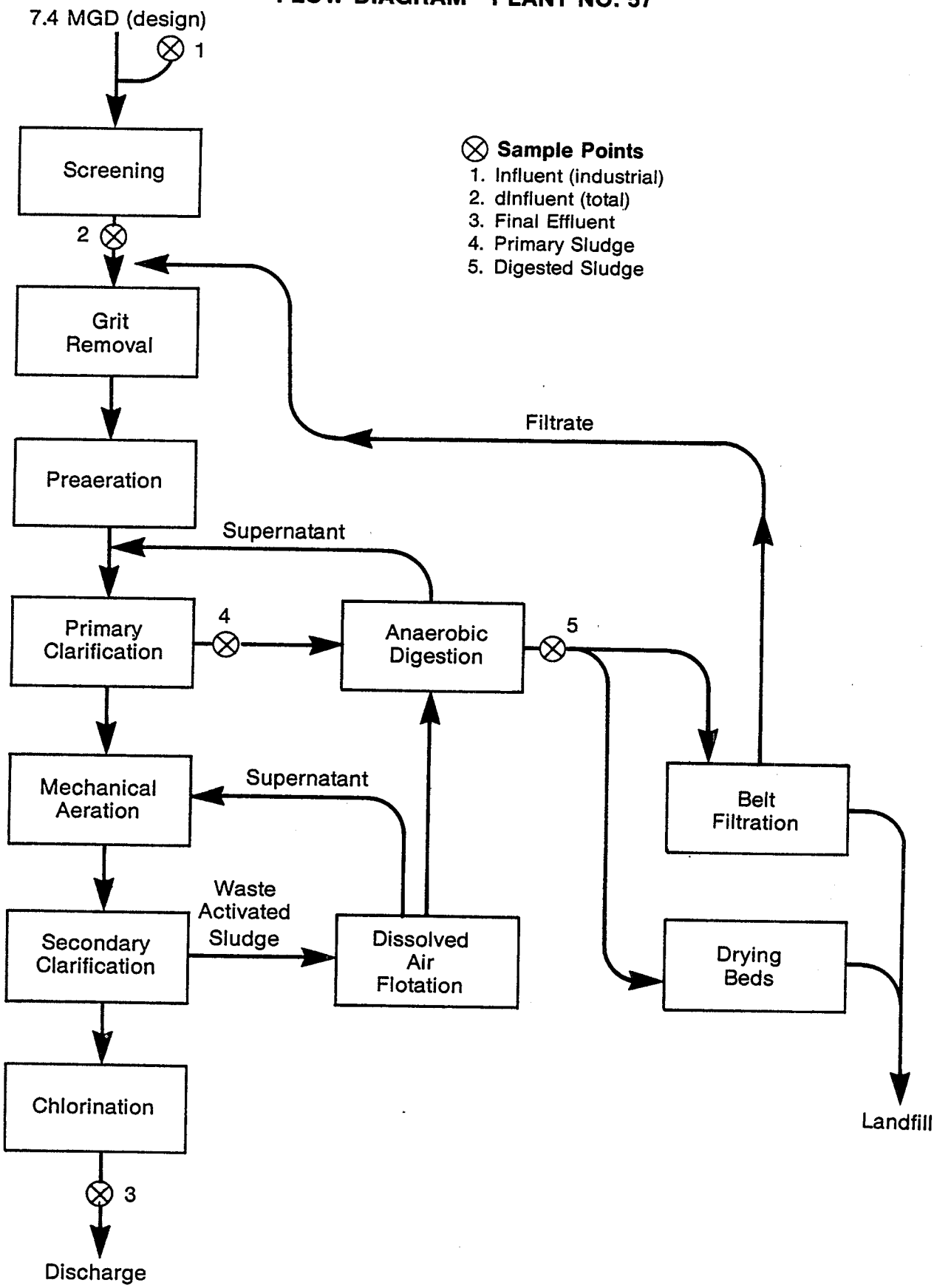
Sample Points

1. Influent (industrial)
2. Influent (total)
3. Intermediate Effluent
4. Final Effluent

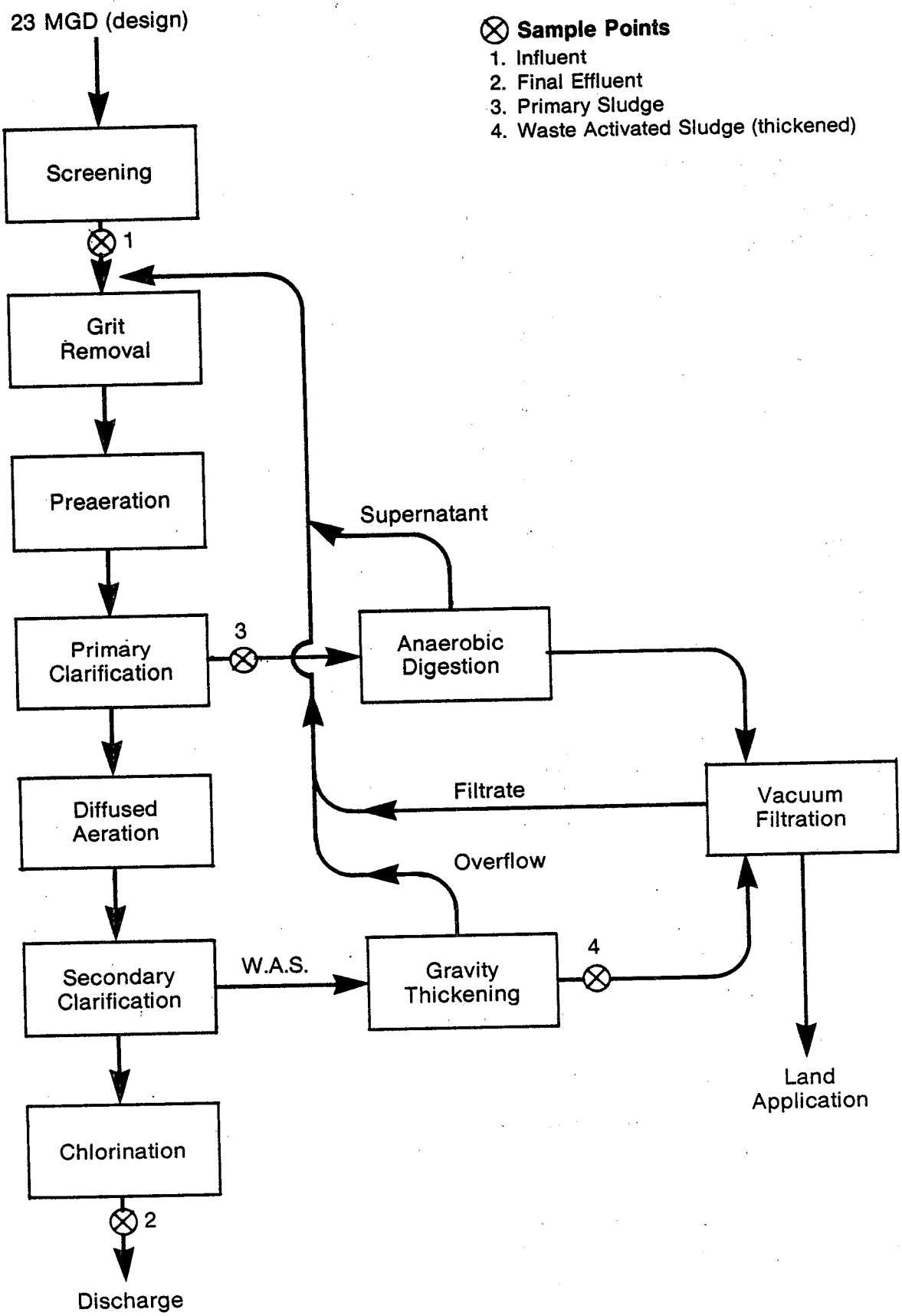
FLOW DIAGRAM PLANT NO. 56



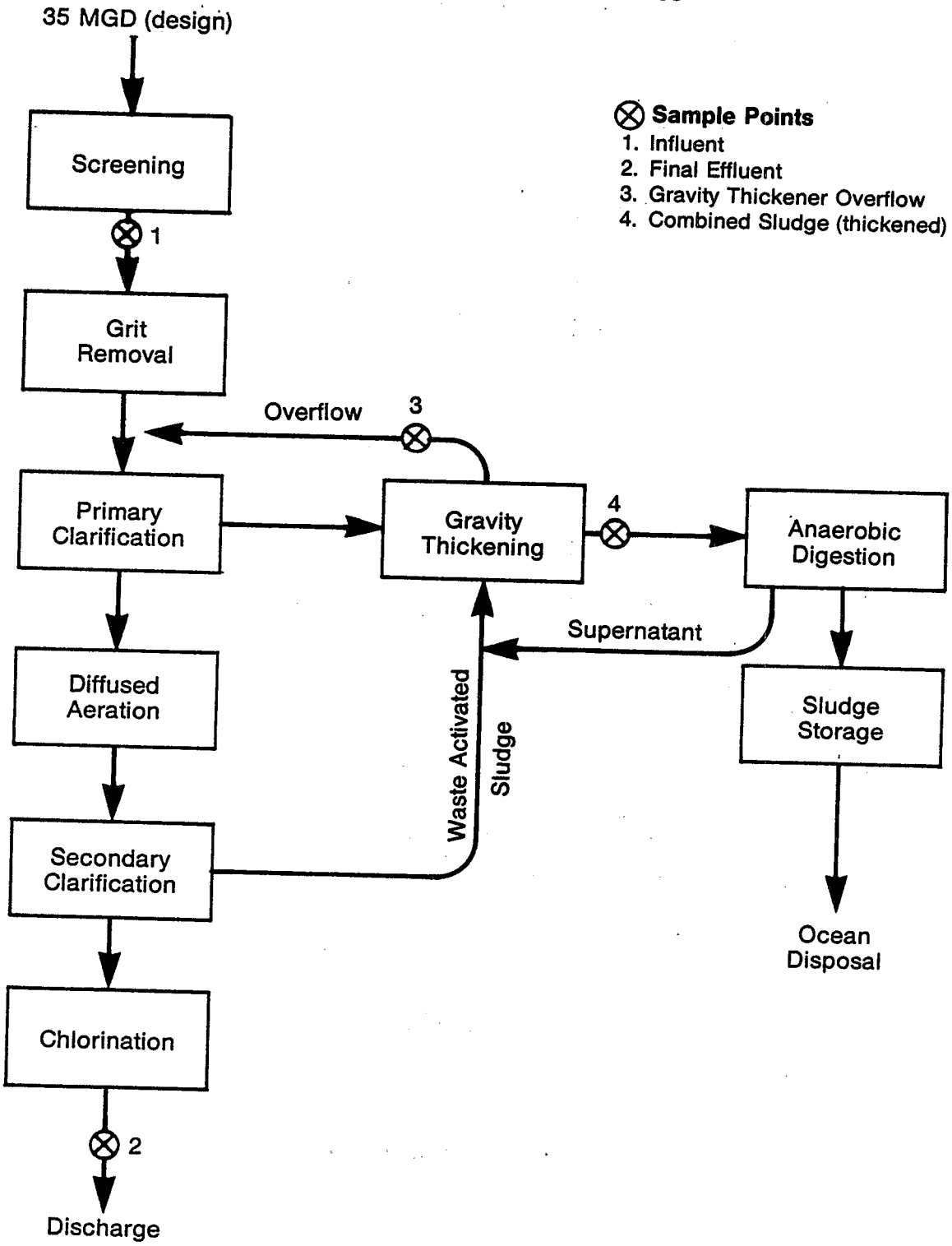
FLOW DIAGRAM PLANT NO. 57



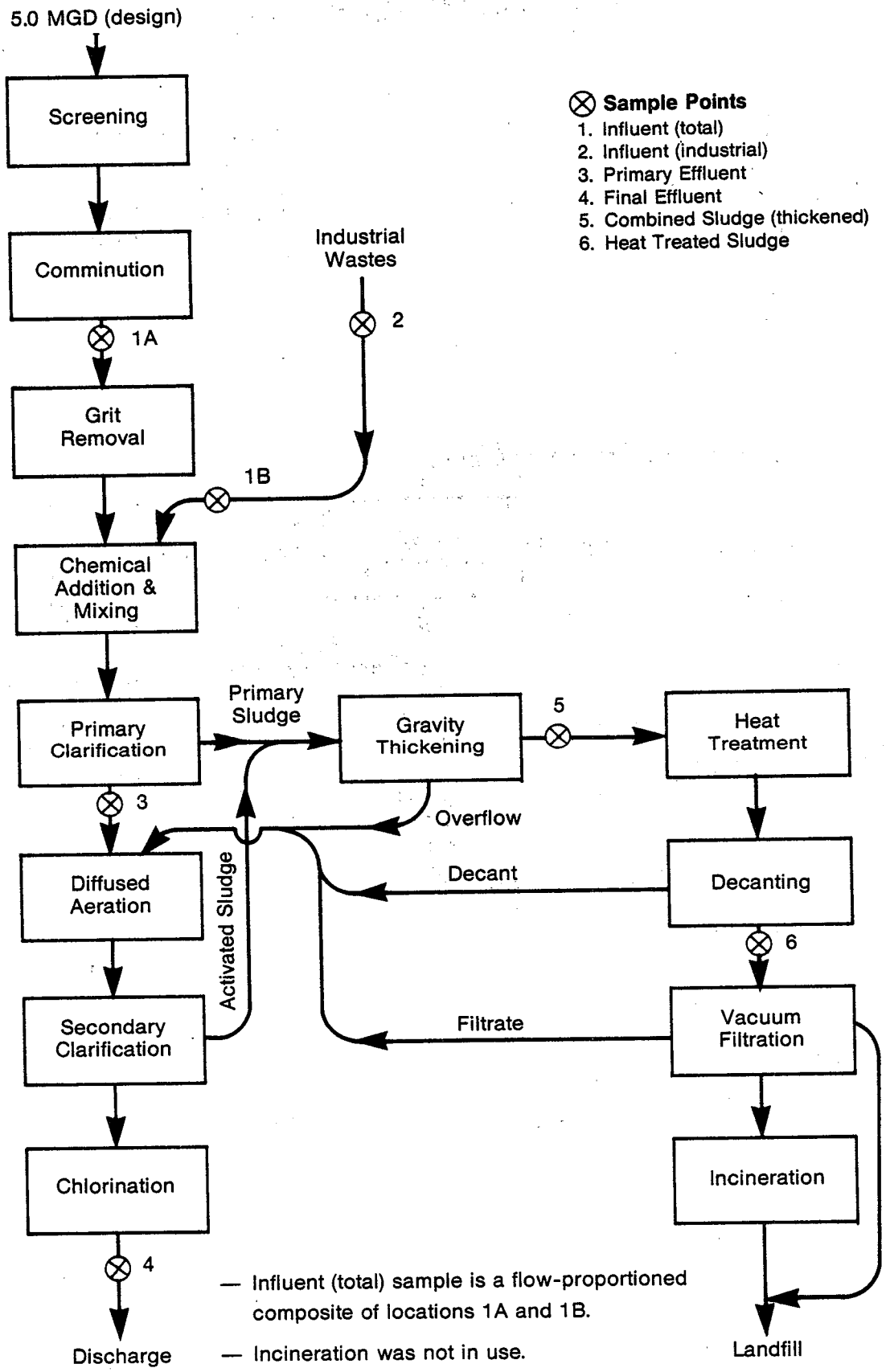
FLOW DIAGRAM PLANT NO. 58



FLOW DIAGRAM PLANT NO. 59



FLOW DIAGRAM PLANT NO. 60



— Influent (total) sample is a flow-proportioned composite of locations 1A and 1B.

— Incineration was not in use.

APPENDIX B

CUMULATIVE DISTRIBUTION CURVES

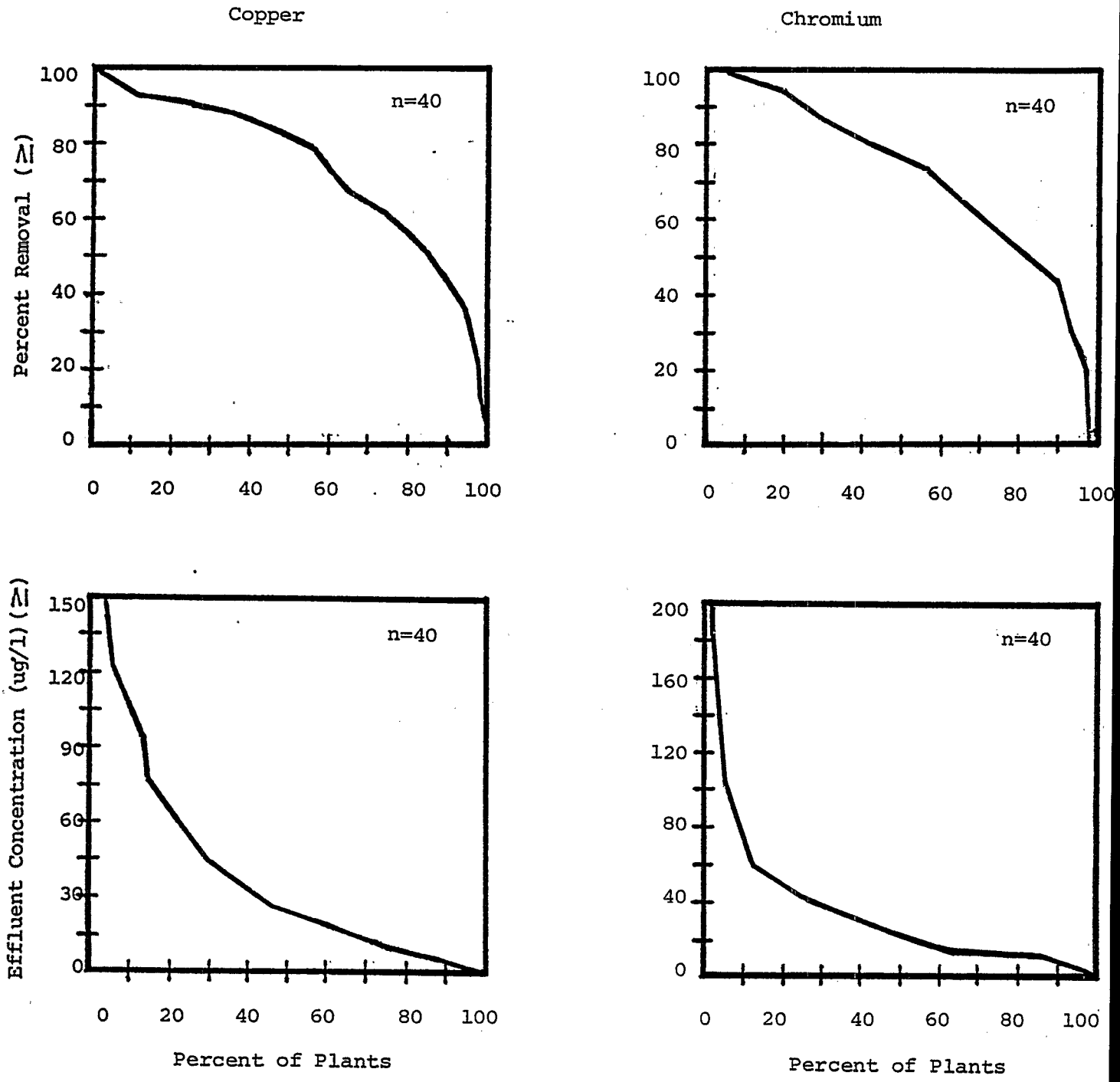
OF

EFFLUENT CONCENTRATIONS AND PERCENT REMOVALS

FOR THE

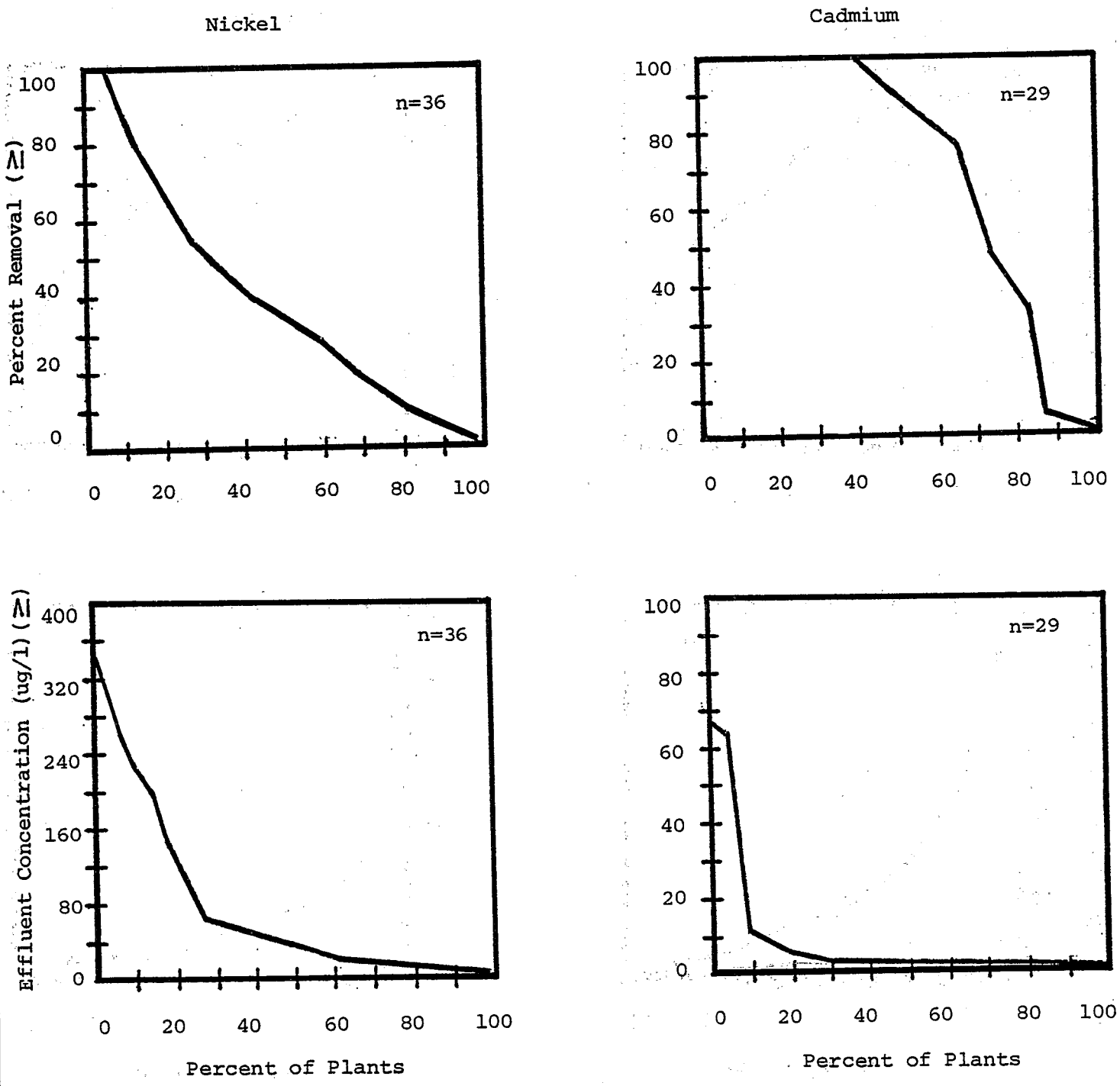
TWENTY-FOUR MOST FREQUENTLY FOUND POLLUTANTS

CUMULATIVE DISTRIBUTION CURVES



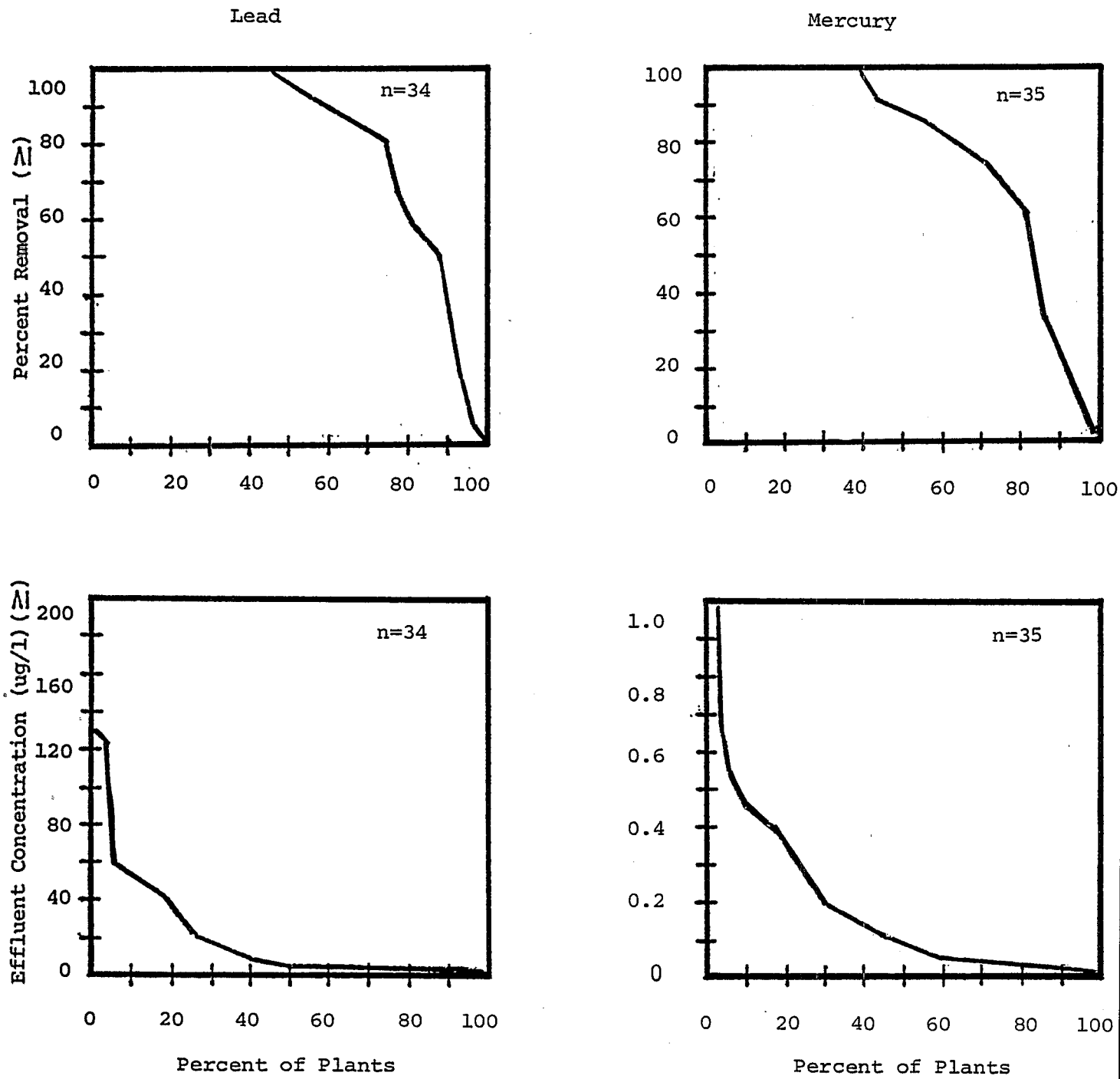
NOTE: n = number of plants with average influent concentration greater than zero

CUMULATIVE DISTRIBUTION CURVES



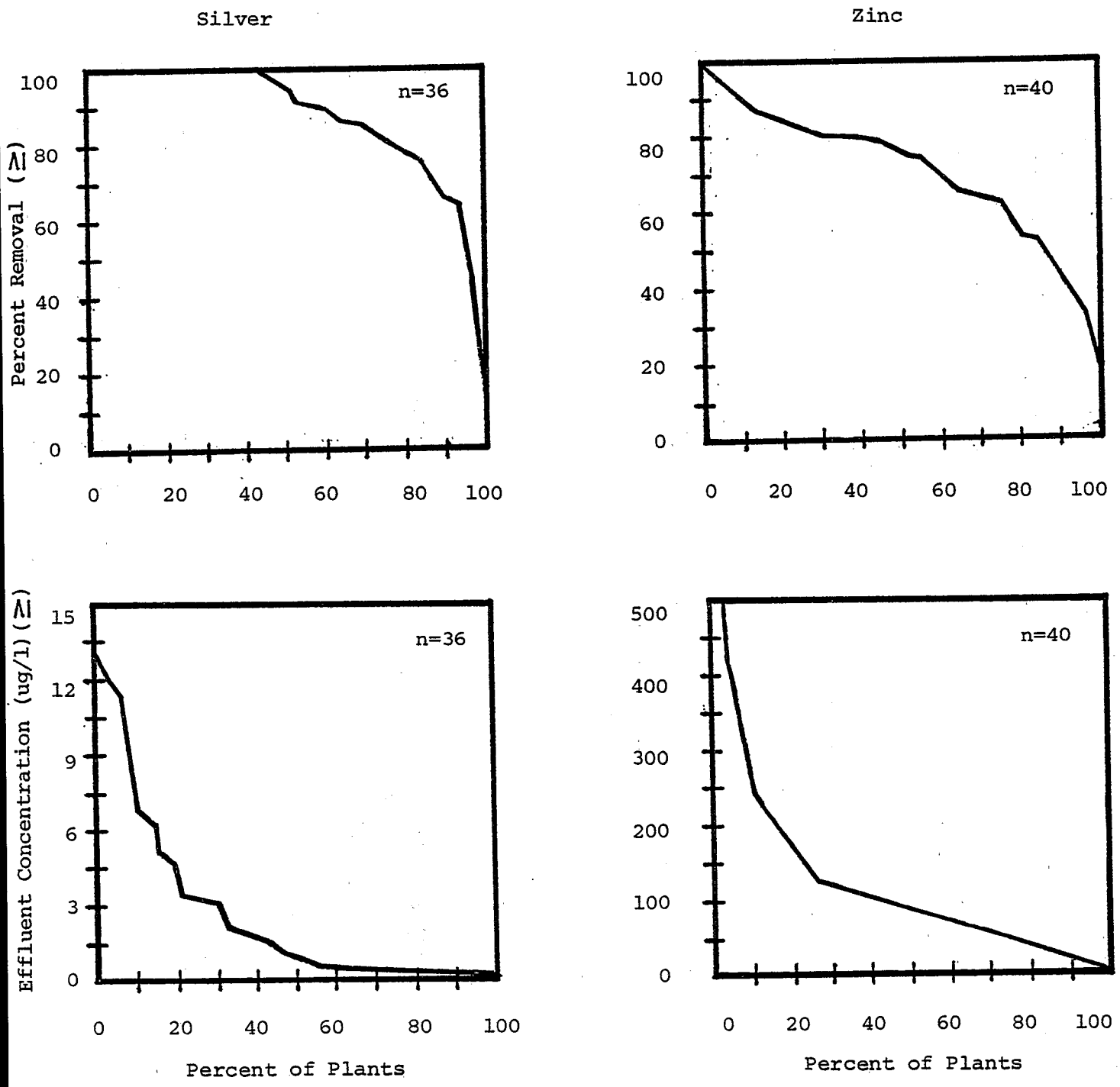
NOTE: n = number of plants with average influent concentration greater than zero

CUMULATIVE DISTRIBUTION CURVES



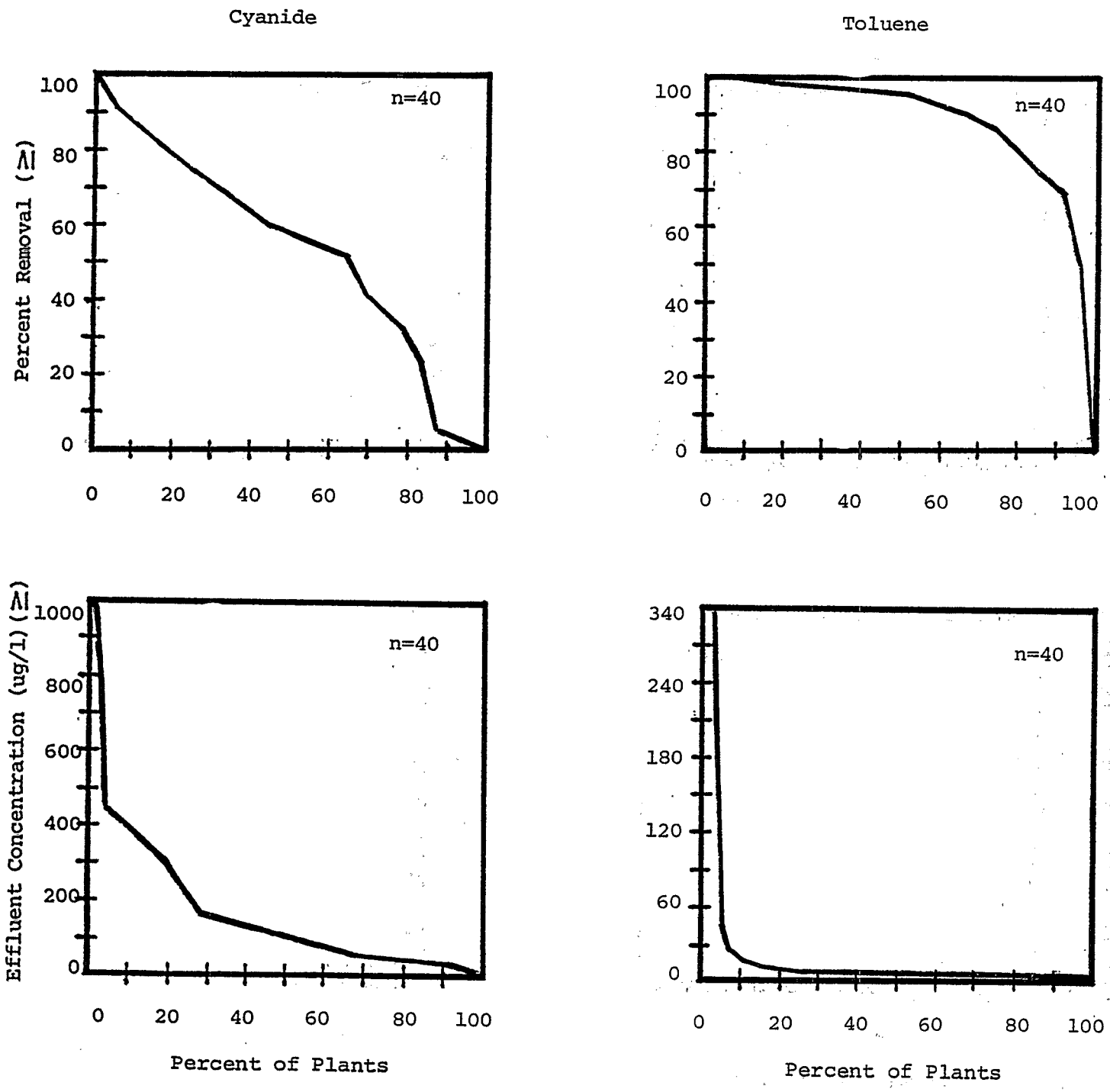
NOTE: n = number of plants with average influent concentration greater than zero

CUMULATIVE DISTRIBUTION CURVES



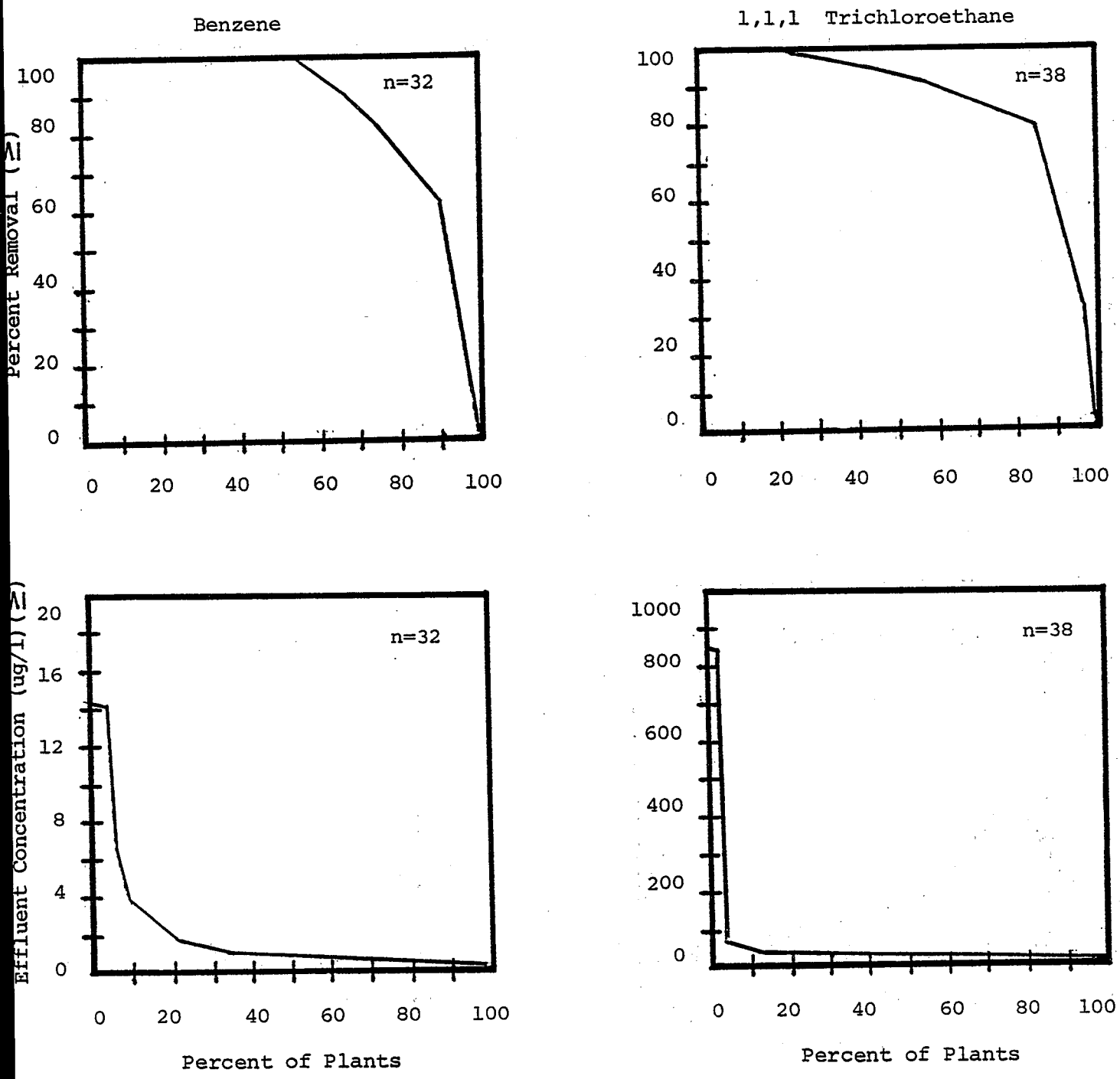
NOTE: n = number of plants with average influent concentration greater than zero

CUMULATIVE DISTRIBUTION CURVES



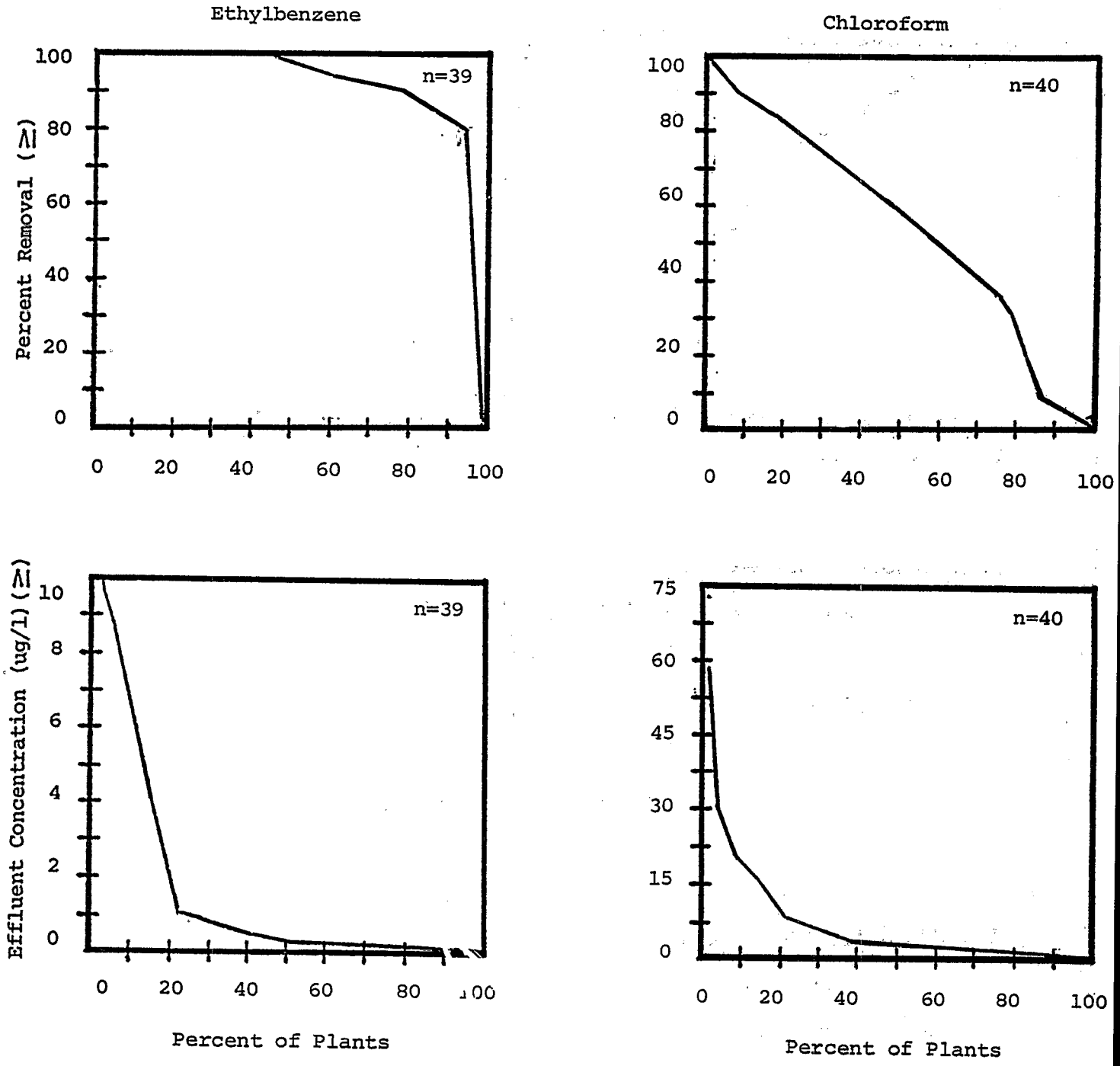
NOTE: n = number of plants with average influent concentration greater than zero

CUMULATIVE DISTRIBUTION CURVES



NOTE: n = number of plants with average influent concentration greater than zero

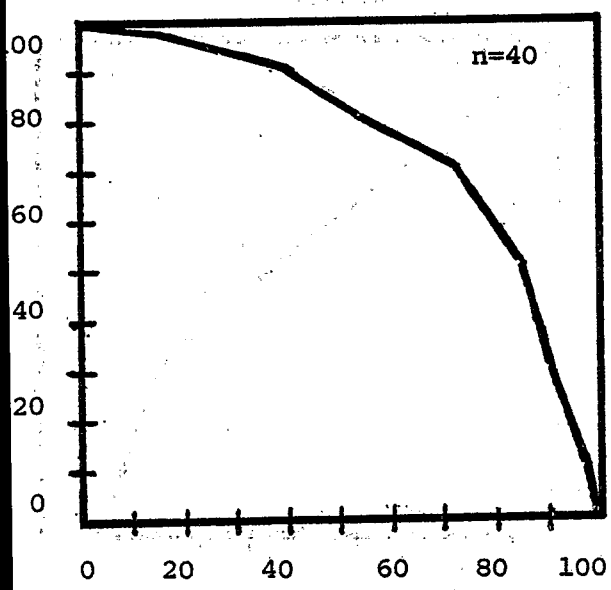
CUMULATIVE DISTRIBUTION CURVES



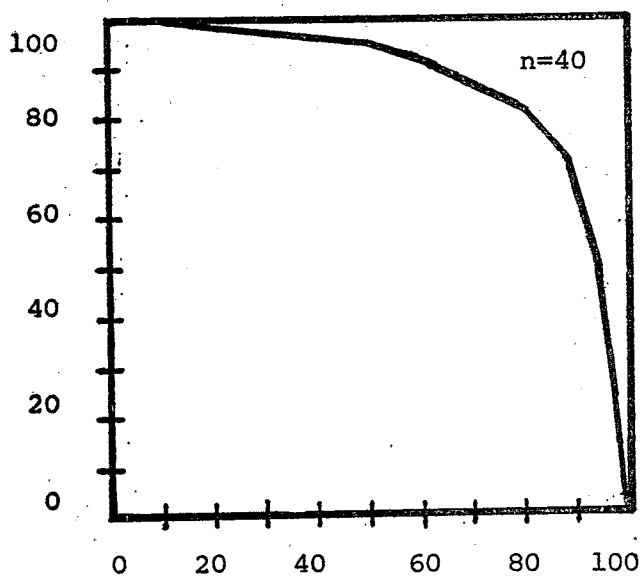
NOTE: n = number of plants with average influent concentration greater than zero

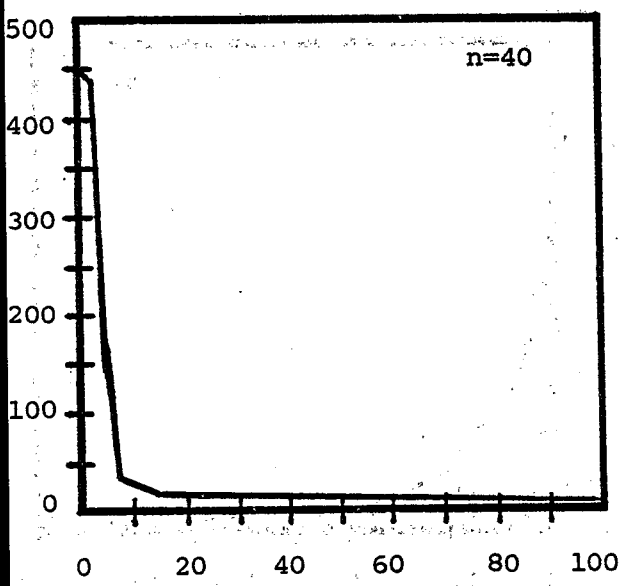
CUMULATIVE DISTRIBUTION CURVES

Tetrachloroethylene

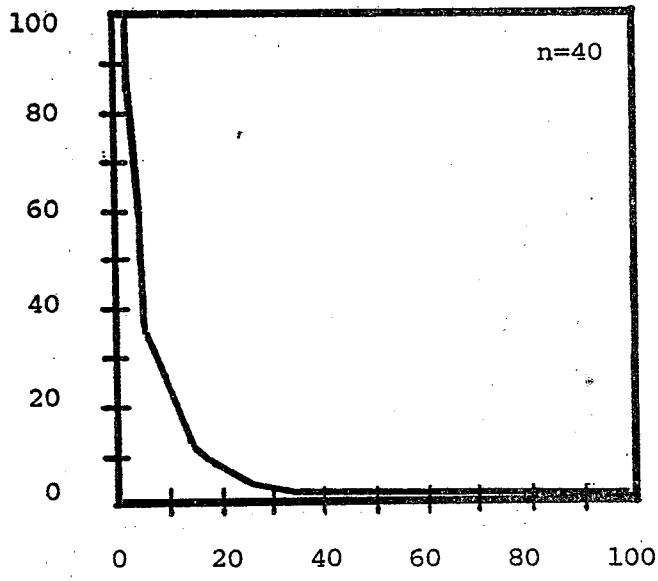


Trichloroethylene





Percent of Plants

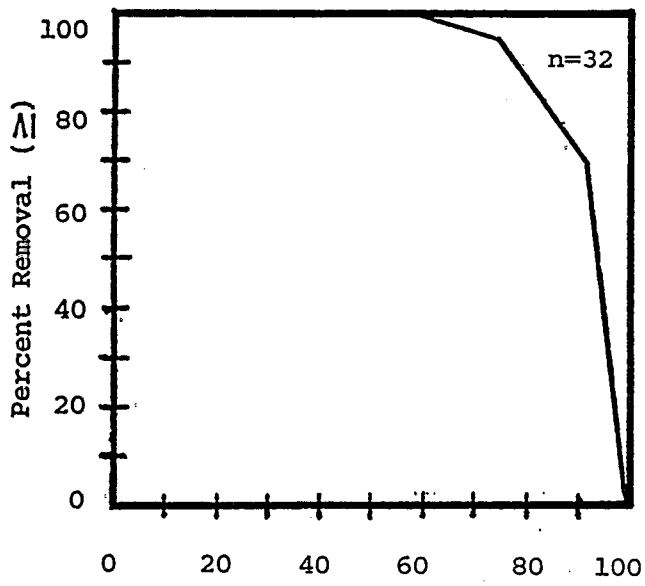


Percent of Plants

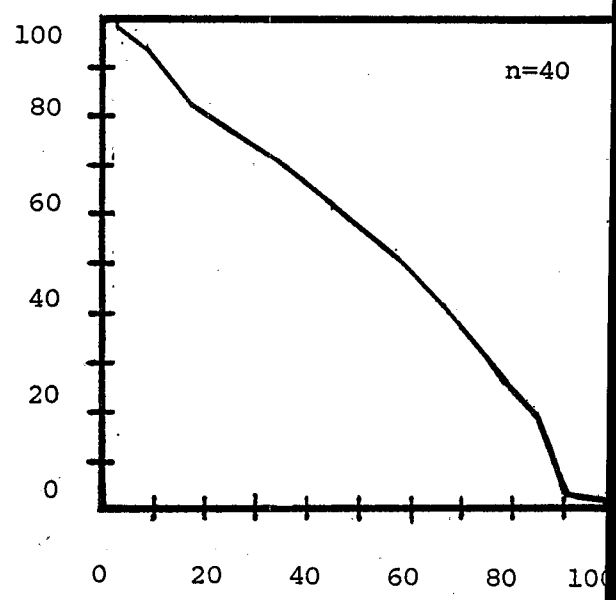
NOTE: n = number of plants with average influent concentration greater than zero

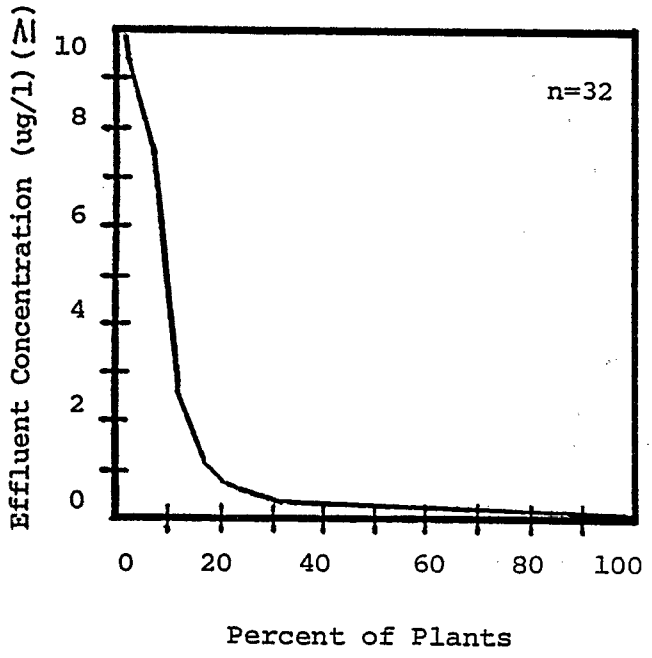
CUMULATIVE DISTRIBUTION CURVES

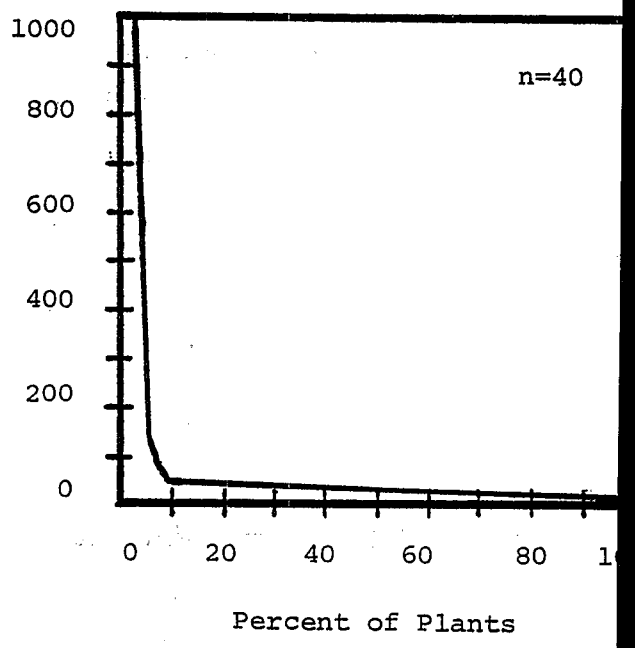
1,2 Trans Dichloroethylene



Methylene Chloride



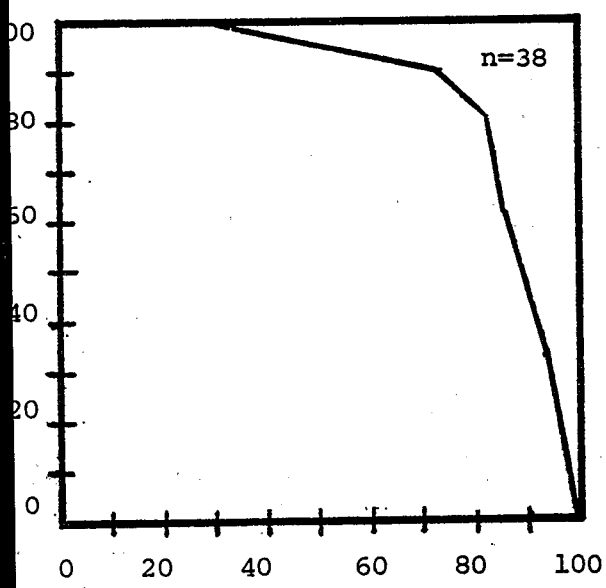




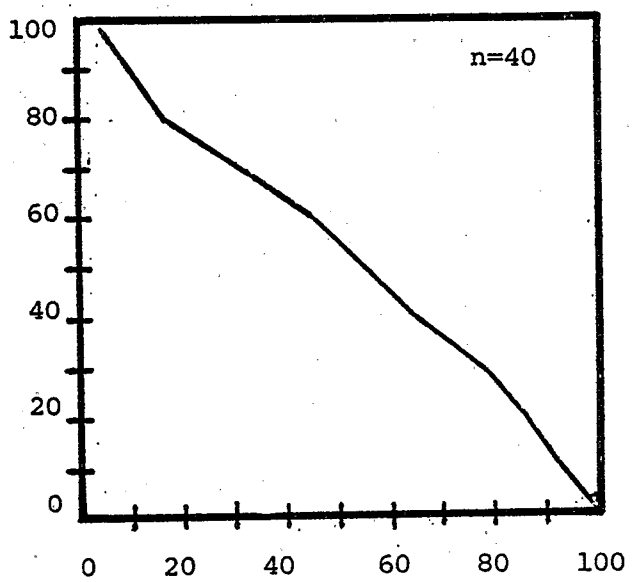
NOTE: n = number of plants with average influent concentration greater than zero

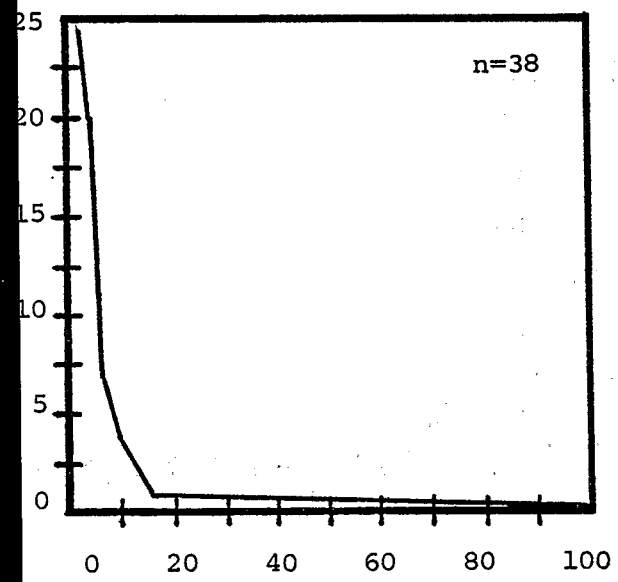
CUMULATIVE DISTRIBUTION CURVES

Phenol

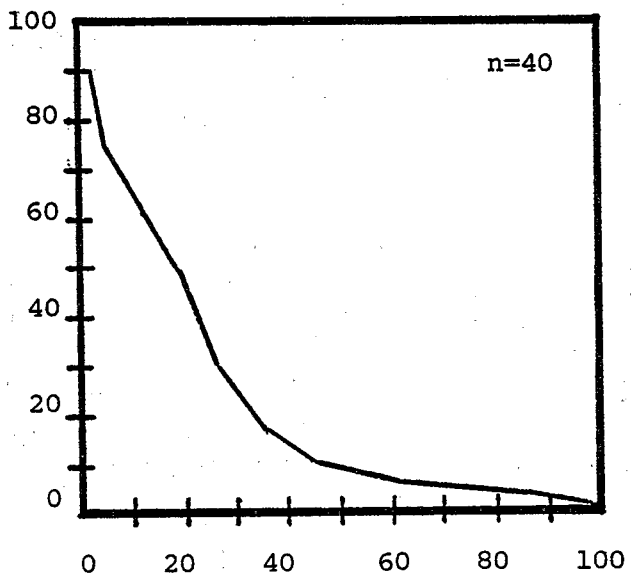


Bis(2-Ethylhexl) Phthalate





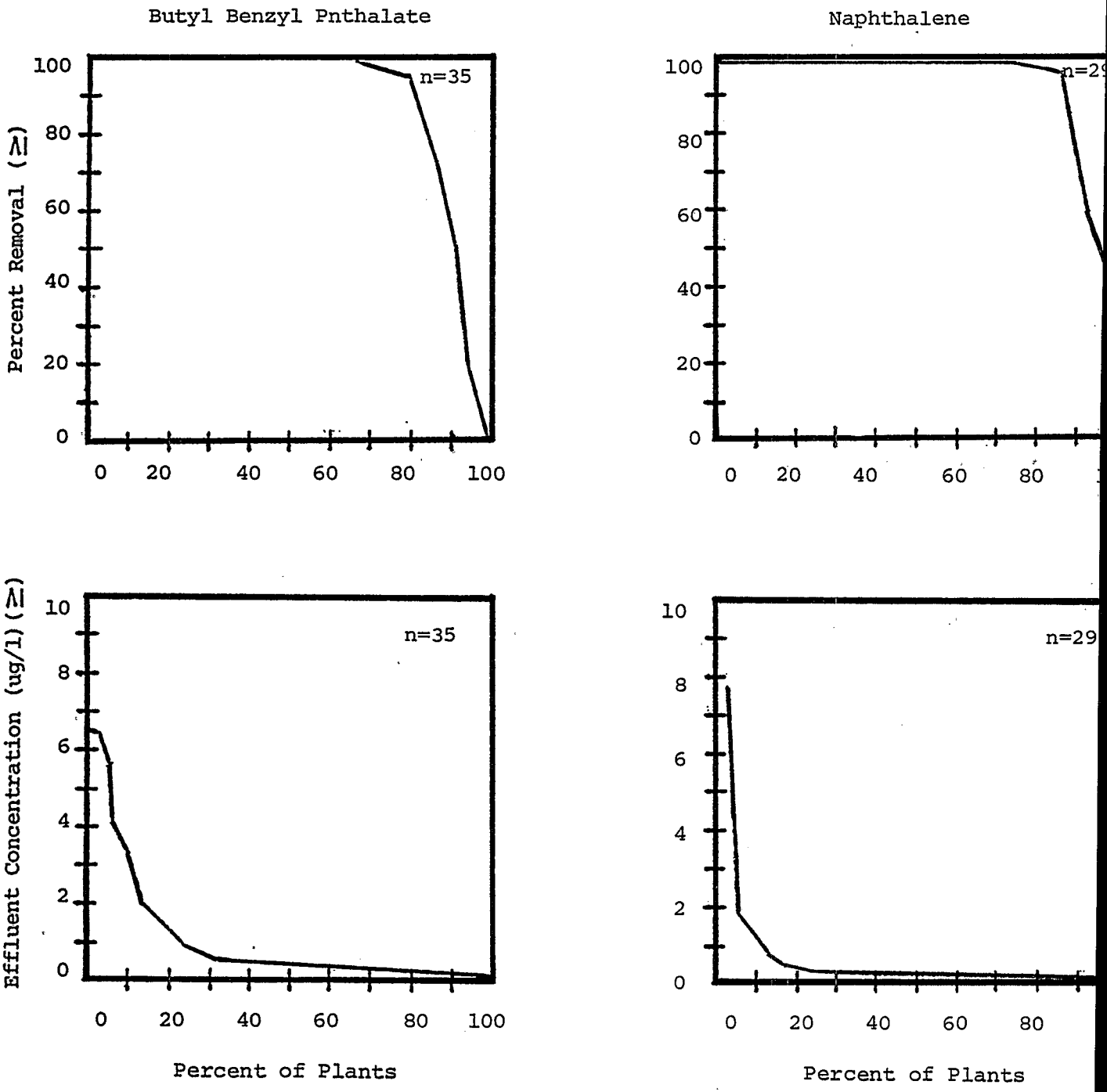
Percent of Plants



Percent of Plants

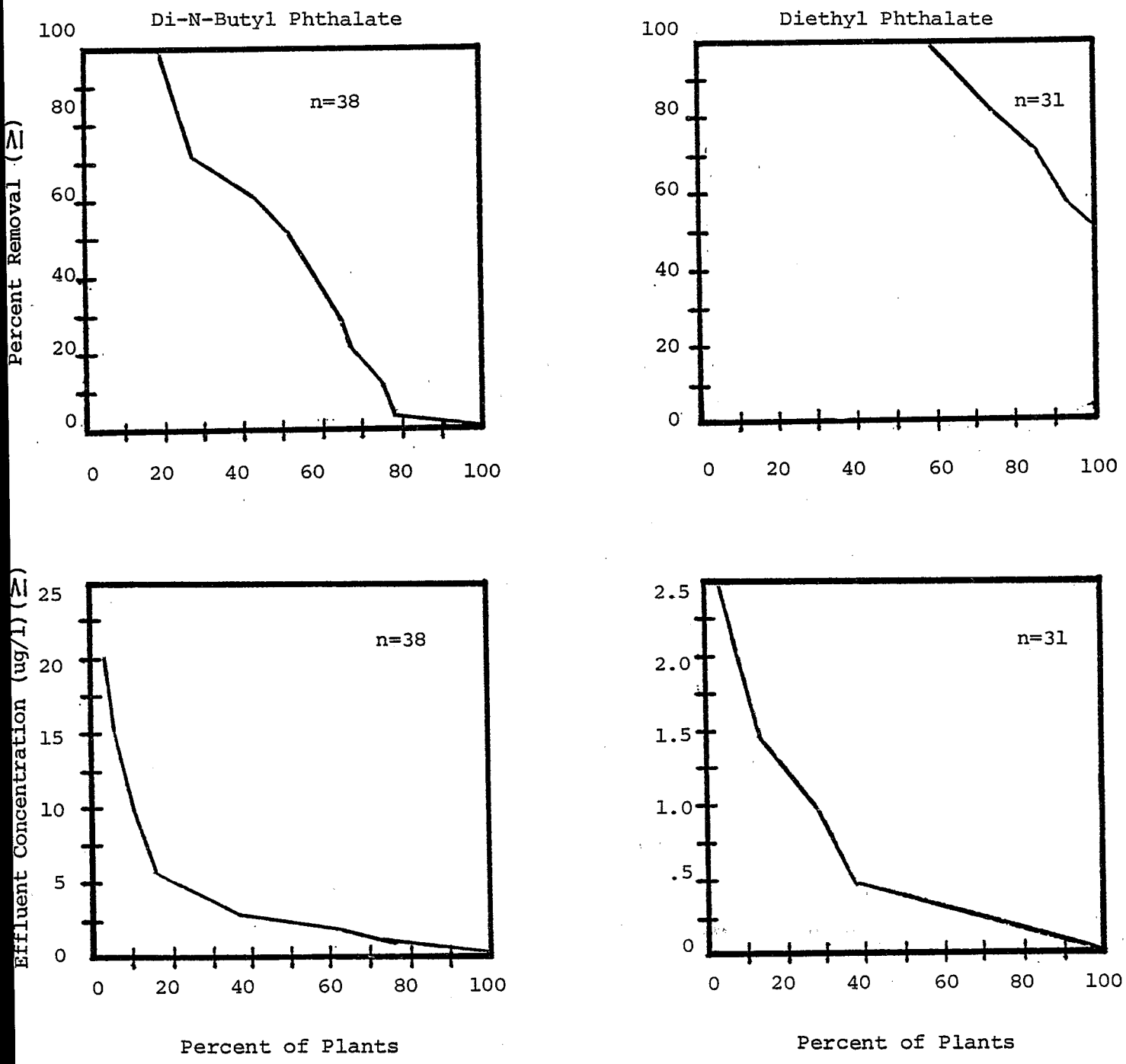
OTE: n = number of plants with average influent concentration greater than zero

CUMULATIVE DISTRIBUTION CURVES



NOTE: n = number of plants with average influent concentration greater than zero

CUMULATIVE DISTRIBUTION CURVES



NOTE: n = number of plants with average influent concentration greater than zero

APPENDIX C

SUMMARY OF ANALYTICAL DATA

PLANTS 1 to 40 AND 51 to 60

SUMMARY OF ANALYTICAL DATA

PLANT 1

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM	PRIMARY SLUDGE	SECONDARY SLUDGE	FLOTABLES
CONVENTIONALS	BOD	MG/L	201	13	94	20167	6033	1900
	TOTAL SUSP. SOLIDS	MG/L	139	20	86	46667	6300	3255
	COD	MG/L	407	68	83	57500	6717	7650
	OIL & GREASE	MG/L	52	5	90	8860	373	15856
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	173	13	92	672	30	82
	TOTAL SOLIDS	MG/L	926	834	10	56667	6030	11057
	TOTAL VOLATILE SOLIDS	MG/L	230	262		26833	3293	9165
	TOTAL VOL. SUS. SOLIDS	MG/L	104	14	87	23333	4200	2962
	AMMONIA NITROGEN	MG/L	6	5	17	59	9	6
	TOC	MG/L	256	65	75	23500	2717	2250
VOLATILES	ACRYLONITRILE	UG/L	L 100	L 100		L 100	3	2
	BENZENE	UG/L	9	3	67	171	10	42
	CARBON TETRACHLORIDE	UG/L	1	L 5		11	6	7
	CHLOROBENZENE	UG/L	0	L 5		L 5	L 5	L 5
	1,2-DICHLOROETHANE	UG/L	0	L 5		L 5	L 5	L 5
	1,1,1-TRICHLOROETHANE	UG/L	19	3	84	24	L 5	2
	1,1-DICHLOROETHANE	UG/L	1	L 5		11	L 5	L 5
	1,1,2-TRICHLOROETHANE	UG/L	7	L 5	29	L 5	L 5	L 5
	CHLOROFORM	UG/L	49	19	61	L 35	L 5	L 5
	1,1-DICHLOROETHYLENE	UG/L	4	4		9	L 5	L 5
	1,2-TRANS-DICHLOROETHYLENE	UG/L	4	1	75	23	L 5	4
	1,2-DICHLOROPROPANE	UG/L	0	L 5		L 5	L 5	L 5
	ETHYLBENZENE	UG/L	33	4	88	276	3	51
	METHYLENE CHLORIDE	UG/L	10	6	40	222	249	243
	METHYL CHLORIDE	UG/L	0	L 5		L 5	L 5	L 5
	DICHLOROBROMOMETHANE	UG/L	0	1		57	56	61
	TRICHLOROFLUOROMETHANE	UG/L	0	0		L 5	L 5	L 5
	CHLORODIBROMOMETHANE	UG/L	L 5	L 5		17	29	25
	TETRACHLOROETHYLENE	UG/L	54	5	91	293	7	72
	TOLUENE	UG/L	21	4	81	284	2	79
	TRICHLOROETHYLENE	UG/L	26	4	85	284	0	23
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	UG/L	0	L 50		L 50	L 50	L 50
	PARACHLOROMETA CRESOL	UG/L	0	L 50		L 50	L 50	L 50
	2-CHLOROPHENOL	UG/L	L 50	1		L 50	L 50	L 50
	2,4-DIMETHYLPHENOL	UG/L	L 50	1		L 50	L 50	L 50
	PENTACHLOROPHENOL	UG/L	2	1	50	93	112	230
	PHENOL	UG/L	16	21		94	68	7
BASE-NEUTRALS	ACENAPHTHENE	UG/L	1	L 10		117	L 10	189
	1,2,4-TRICHLOROBENZENE	UG/L	0	L 10		L 10	L 10	L 10
	HEXACHLOROBENZENE	UG/L	0	L 10		L 10	L 10	L 10
	1,2-DICHLOROBENZENE	UG/L	2	1	50	L 10	L 10	L 10
	1,3-DICHLOROBENZENE	UG/L	1	1		L 10	L 10	L 10
	1,4-DICHLOROBENZENE	UG/L	2	1	50	L 10	L 10	L 10
	3,3'-DICHLOROBENZIDINE	UG/L	L 25	1		L 25	L 25	L 25
	FLUORANTHENE	UG/L	2	2		L 10	L 10	L 10
	BIS(2-CHLOROETHYOXY) METHANE	UG/L	1	L 25		L 25	L 25	L 25
	HEXACHLOROBUTADIENE	UG/L	0	L 10		L 10	L 10	L 10
	NAPHTHALENE	UG/L	5	2	60	195	4	421

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 1

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM	PRIMARY SLUDGE	SECONDARY SLUDGE	FLOTABLES
BASE-NEUTRALS	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	34	14	59	2231	42	511
	BUTYL BENZYL PHTHALATE	UG/L	2	2		1	L 10	100
	DI-N-BUTYL PHTHALATE	UG/L	6	3	50	L 10	L 10	5
	DI-N-OCTYL PHTHALATE	UG/L	0	1		L 10	L 10	L 10
	DIETHYL PHTHALATE	UG/L	3	1	67	L 10	L 10	L 10
	DIMETHYL PHTHALATE	UG/L	2	1	50	L 10	L 10	L 10
	1,2-BENZANTHRACENE	UG/L	1	1		479	L 10	186
	3,4-BENZOFLUORANTHENE	UG/L	L 5	L 5		675	0	137
	CHRYSENE	UG/L	1	1		479	L 10	186
	ACENAPHTHYLENE	UG/L	0	L 10		L 10	L 10	L 10
	ANTHRACENE	UG/L	3	2	33	1572	4	1118
	1,12-BENZOPERYLENE	UG/L	0	L 25		L 25	L 25	L 25
	FLUORENE	UG/L	2	1	50	313	L 10	2
	PHENANTHRENE	UG/L	4	2	50	1572	4	1118
	1,2:5,6-DIBENZANTHRACENE	UG/L	0	1		L 50	10	L 50
	INDENO(1,2,3-C,D) PYRENE	UG/L	0	1		L 50	8	L 50
	PYRENE	UG/L	2	3		754	L 10	192
METALS	ANTIMONY	UG/L	L 50	L 50		146	21	4
	ARSENIC	UG/L	L 50	L 50		1263	63	23
	BERYLLIUM	UG/L	L 2	L 2		37	9	1
	CADMIUM	UG/L	12	4	67	1220	344	32
	CHROMIUM	UG/L	419	46	89	14571	18071	4436
	COPPER	UG/L	183	27	85	77429	8971	1686
	CYANIDE	UG/L	17	7	59	627	56	L 58
	LEAD	UG/L	48	L 20	58	46857	1594	112
	MERCURY	NG/L	305	400		1000	286	286
	NICKEL	UG/L	93	40	57	13343	3343	411
	SELENIUM	UG/L	L 50	L 50		5	21	3
	SILVER	UG/L	7	L 2	71	25	182	19
	THALLIUM	UG/L	L 50	L 50		2	1	2
	ZINC	UG/L	260	90	65	129714	12829	2450
NON-CONV. METALS	ALUMINUM	UG/L	1362	203	85	NOT RUN	NOT RUN	NOT RUN
	BARIUM	UG/L	132	50	62	NOT RUN	NOT RUN	NOT RUN
	CALCIUM	MG/L	82	79	4	NOT RUN	NOT RUN	NOT RUN
	IRON	UG/L	5330	392	93	NOT RUN	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	26	27		NOT RUN	NOT RUN	NOT RUN
	MANGANESE	UG/L	106	111		NOT RUN	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 2

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRE CL EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	MG/L	95	14	85	20	8457
	TOTAL SUSP. SOLIDS	MG/L	97	9	91	12	21714
	COD	MG/L	183	38	79	52	32429
	OIL & GREASE	MG/L	24	8	67	NOT RUN	3551
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	20	3	85	NOT RUN	454
	TOTAL SOLIDS	MG/L	619	567	8	496	25571
	TOTAL VOLATILE SOLIDS	MG/L	143	132	8	129	14286
	TOTAL VOL. SUS. SOLIDS	MG/L	54	6	89	7	12100
	AMMONIA NITROGEN	MG/L	12	71		70	12707
	TOC	MG/L	70	28	60	29	11929
VOLATILES	ACRYLONITRILE	UG/L	L 100	L 100		L 100	41
	BENZENE	UG/L	10	3	70	1	33
	CHLOROBENZENE	UG/L	0	L 5		0	L 5
	1,2-DICHLOROETHANE	UG/L	1	1		1	L 5
	1,1,1-TRICHLOROETHANE	UG/L	1	0	100	0	L 5
	1,1-DICHLOROETHANE	UG/L	0	L 5		L 5	L 5
	CHLOROFORM	UG/L	5	5		4	L 5
	1,1-DICHLOROETHYLENE	UG/L	2	2		1	L 5
	1,2-DICHLOROPROPANE	UG/L	0	L 5		L 5	L 5
	ETHYLBENZENE	UG/L	2	0	100	0	2
	METHYLENE CHLORIDE	UG/L	9	4	56	4	247
	DICHLOROBROMOMETHANE	UG/L	1	2		1	74
	TRICHLOROFLUOROMETHANE	UG/L	L 5	L 5		0	L 5
	CHLORODIBROMOMETHANE	UG/L	0	1		1	9
	TETRACHLOROETHYLENE	UG/L	5	3	40	3	61
	TOLUENE	UG/L	5	3	40	3	336
	TRICHLOROETHYLENE	UG/L	2	0	100	0	L 5
ACID EXTRACT	2-NITROPHENOL	UG/L	L 50	2		5	L 50
	4-NITROPHENOL	UG/L	L 50	15		33	L 50
	PENTACHLOROPHENOL	UG/L	1	1		2	L 50
	PHENOL	UG/L	4	4		4	4
BASE-NEUTRALS	1,2-DICHLOROBENZENE	UG/L	4	1	75	1	L 10
	1,3-DICHLOROBENZENE	UG/L	1	3		1	L 10
	1,4-DICHLOROBENZENE	UG/L	1	L 10		L 10	L 10
	3,3'-DICHLOROBENZIDINE	UG/L	L 25	1		L 25	L 25
	2,6-DINITROTOLUENE	UG/L	1	L 25		L 25	L 25
	FLUORANTHENE	UG/L	2	L 10		L 10	L 10
	ISOPHORONE	UG/L	1	L 25		L 25	L 25
	NAPHTHALENE	UG/L	4	1	75	1	91
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	10	4	60	5	1486
	BUTYL BENZYL PHTHALATE	UG/L	5	4	20	3	1
	DI-N-BUTYL PHTHALATE	UG/L	4	3	25	3	L 10
	DI-N-OCTYL PHTHALATE	UG/L	3	1	67	1	L 10
	DIETHYL PHTHALATE	UG/L	4	1	75	1	L 10
	DIMETHYL PHTHALATE	UG/L	2	1	50	1	L 10
	1,2-BENZANTHRACENE	UG/L	L 10	1		1	8
	BENZO (A)PYRENE	UG/L	1	L 10		L 10	L 10
	3,4-BENZOFLUORANTHENE	UG/L	1	L 5		L 5	43

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 2

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM.		PRE CL EFFLUENT		COMBINED SLUDGE
BASE-NEUTRALS	11,12-BENZOFLUORANTHENE	UG/L		1	L	5		L	5	L	5
	CHRYSENE	UG/L	L	10		1			1		8
	ACENAPHTHYLENE	UG/L	L	10		1			1	L	10
	ANTHRACENE	UG/L		.1	L	10		L	10		91
	PHENANTHRENE	UG/L		1	L	10		L	10		91
	PYRENE	UG/L		2	L	10		L	10		45
METALS	ANTIMONY	UG/L	L	50	L	50		L	50		39
	ARSENIC	UG/L	L	50	L	50		L	50		149
	BERYLLIUM	UG/L	L	2	L	2		L	2		12
	CADMIUM	UG/L		4	L	2	50	L	2		305
	CHROMIUM	UG/L		71		22	69		26		8114
	COPPER	UG/L		54		10	81		11		10700
	CYANIDE	UG/L		77		142			NOT RUN		1788
	LEAD	UG/L		16		3	81		6		7386
	MERCURY	NG/L		214		57	73		33		3286
	NICKEL	UG/L		30		20	33		22		3097
	SELENIUM	UG/L	L	50	L	50		L	50		27
	SILVER	UG/L		1		0	100		5		78
	THALLIUM	UG/L	L	50	L	50		L	50		1
	ZINC	UG/L		278		52	81		83		26743
NON-CONV. METALS	ALUMINUM	UG/L		537		51	91		74		NOT RUN
	BARIUM	UG/L		74		25	66		26		NOT RUN
	CALCIUM	MG/L		58		65			64		NOT RUN
	IRON	UG/L		1640		188	89		198		NOT RUN
	MAGNESIUM	MG/L		12		12			14		NOT RUN
	MANGANESE	UG/L		280		175	38		194		NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 3

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM	PRE CL. EFFLUENT	PRIMARY SLUDGE	COMBINED SLUDGE
CONVENTIONALS	BOD	MG/L	131	14	89	12	5538	4426
	TOTAL SUSP. SOLIDS	MG/L	266	44	83	12	40039	31859
	COD	MG/L	412	45	89	49	44850	22577
	OIL & GREASE	MG/L	44	4	91	6	8604	1799
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	111	15	86	11	3377	1615
	TOTAL SOLIDS	MG/L	552	351	36	322	41947	38020
	TOTAL DISS. SOLIDS	MG/L	276	299		293	1821	6076
	SETTLEABLE SOLIDS	ML/L	8	L 1	88	L 1	NOT RUN	NOT RUN
	TOTAL VOLATILE SOLIDS	MG/L	232	77	67	76	29725	20587
	VOLATILE DISS. SOLIDS	MG/L	66	58	12	69	573	2619
	TOTAL VOL. SUS. SOLIDS	MG/L	150	15	90	4	29065	17882
	AMMONIA NITROGEN	MG/L	14	1	93	1	120	31
	TOC	MG/L	209	34	84	24	21771	15194
VOLATILES	BENZENE	UG/L	5	L 5		L 5	34	2
	1,1,1-TRICHLOROETHANE	UG/L	62	5	92	5	17	N-D
	CHLOROFORM	UG/L	38	23	39	6	N-D	N-D
	1,1-DICHLOROETHYLENE	UG/L	3	L 5		L 5	2373	N-D
	1,2-DICHLOROPROPANE	UG/L	1	L 5		L 5	10	N-D
	ETHYLBENZENE	UG/L	46	L 5	89	L 5	203	96
	METHYLENE CHLORIDE	UG/L	11	5	55	5	8	1
	METHYL CHLORIDE	UG/L	L 5	L 5		L 5	33	N-D
	DICHLOROBROMOMETHANE	UG/L	L 5	1		L 5	N-D	N-D
	TRICHLOROFLUOROMETHANE	UG/L	1	L 5		L 5	N-D	N-D
	CHLORODIBROMOMETHANE	UG/L	L 5	1		L 5	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	52	3	94	9	N-D	1601
	TOLUENE	UG/L	15	1	93	1	260	54
	TRICHLOROETHYLENE	UG/L	4	1	75	4	38	N-D
	VINYL CHLORIDE	UG/L	L 5	L 5		L 5	301	N-D
ACID EXTRACT	PENTACHLOROPHENOL	UG/L	L 50	L 50		L 50	N-D	30
	PHENOL	UG/L	15	L 50		L 50	277	4310
BASE-NEUTRALS	1,2,4-TRICHLOROBENZENE	UG/L	L 10	L 10		L 10	41	N-D
	1,2-DICHLOROBENZENE	UG/L	1	L 10		L 10	N-D	N-D
	1,3-DICHLOROBENZENE	UG/L	1	L 10		L 10	N-D	N-D
	1,4-DICHLOROBENZENE	UG/L	1	L 10		L 10	25	N-D
	FLUORANTHENE	UG/L	1	L 10		L 10	67	23
	NAPHTHALENE	UG/L	3	L 10		L 10	78	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	26	5	81	9	300	157
	BUTYL BENZYL PHTHALATE	UG/L	6	L 10		L 10	57	N-D
	DI-N-BUTYL PHTHALATE	UG/L	6	5	17	3	263	37
	DI-N-OCTYL PHTHALATE	UG/L	3	L 10		L 10	N-D	N-D
	DIETHYL PHTHALATE	UG/L	5	1	80	1	N-D	N-D
	DIMETHYL PHTHALATE	UG/L	2	L 10		L 10	N-D	N-D
	1,2-BENZANTHRACENE	UG/L	1	L 10		L 10	15	N-D
	BENZO (A)PYRENE	UG/L	1	L 10		L 10	N-D	N-D
	3,4-BENZOFLUORANTHENE	UG/L	1	L 5		L 5	N-D	N-D
	11,12-BENZOFLUORANTHENE	UG/L	1	L 5		L 5	N-D	N-D
	CHRYSENE	UG/L	1	L 10		L 10	15	N-D
	ANTHRACENE	UG/L	2	L 10		L 10	260	104

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 3

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM		PRE CL EFFLUENT	PRIMARY SLUDGE	COMBINED SLUDGE
BASE-NEUTRALS	FLUORENE	UG/L	L	10	L	10		L	10	10	N-D
	PHENANTHRENE	UG/L		2	L	10		L	10	260	104
	PYRENE	UG/L		1	L	10		L	10	66	32
METALS	ANTIMONY	UG/L	L	4	L	4		L	4	130	52
	ARSENIC	UG/L		3	L	5			2	403	138
	BERYLLIUM	UG/L	L	1		0		L	5	13	10
	CADMIUM	UG/L		4		6			1	232	42
	CHROMIUM	UG/L		28		10	64		7	5000	4750
	COPPER	UG/L		269		43	84		39	25667	20500
	CYANIDE	UG/L		100		138			53	20530	7223
	LEAD	UG/L		98		44	55		30	6833	1475
	MERCURY	NG/L	L	1000	L	1000		L	1000	47333	29250
	NICKEL	UG/L		61		88			42	647	478
	SELENIUM	UG/L	L	4	L	4		L	4	28	12
	SILVER	UG/L		2	L	4		L	4	417	368
	ZINC	UG/L		317		61	81		70	27667	16000
NON-CONV. METALS	ALUMINUM	UG/L		2139		251	88		79	NOT RUN	NOT RUN
	BARIUM	UG/L		120		1	99	L	1	NOT RUN	NOT RUN
	BORON	UG/L		293		258	12		252	NOT RUN	NOT RUN
	CALCIUM	MG/L		25		19	24		27	NOT RUN	NOT RUN
	COBALT	UG/L		26		11	58		6	NOT RUN	NOT RUN
	IRON	UG/L		13074		233	98		116	NOT RUN	NOT RUN
	MAGNESIUM	MG/L		4		3	25		3	NOT RUN	NOT RUN
	MANGANESE	UG/L		291		23	92		17	NOT RUN	NOT RUN
	MOLYBDENUM	UG/L		140		151			152	NOT RUN	NOT RUN
	SODIUM	MG/L		58		66			66	NOT RUN	NOT RUN
	TIN	UG/L		43		4	91		3	NOT RUN	NOT RUN
	TITANIUM	UG/L		157		6	96		3	NOT RUN	NOT RUN
	VANADIUM	UG/L		70		29	59		28	NOT RUN	NOT RUN
	YTTRIUM	UG/L		4		6			4	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 4

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	UNTREAT. COMB. SLUDGE	DIGESTED COMB. SLUDGE
CONVENTIONALS	BOD	MG/L	152	22	86	18300	5500
	TOTAL SUSP. SOLIDS	MG/L	164	43	74	59667	41917
	COD	MG/L	343	81	76	59783	34083
	OIL & GREASE	MG/L	117	16	86	10128	9048
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	123	28	77	677	1158
	TOTAL SOLIDS	MG/L	402	276	31	63583	45917
	TOTAL DISS. SOLIDS	MG/L	252	207	18	1790	659
	SETTLEABLE SOLIDS	ML/L	5	0	100	NOT RUN	NOT RUN
	TOTAL VOLATILE SOLIDS	MG/L	178	112	37	34683	21533
	VOLATILE DISS. SOLIDS	MG/L	80	58	27	1058	405
	TOTAL VOL. SUS. SOLIDS	MG/L	118	29	75	29933	15067
	AMMONIA NITROGEN	MG/L	9	8	11	207	523
	TOC	MG/L	99	38	62	14538	11602
VOLATILES	BENZENE	UG/L	L 1	L 1		40	20
	CARBON TETRACHLORIDE	UG/L	L 2	L 2		270	N-D
	CHLOROBENZENE	UG/L	L 1	L 1		N-D	252
	1,2-DICHLOROETHANE	UG/L	L 2	L 2		N-D	65
	1,1,1-TRICHLOROETHANE	UG/L	284	89	69	507	37
	1,1,2-TRICHLOROETHANE	UG/L	L 2	L 2		441	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	18	2	89	43	194
	CHLOROFORM	UG/L	8	3	63	1	N-D
	1,1-DICHLOROETHYLENE	UG/L	13	3	77	2347	3
	1,2-TRANS-DICHLOROETHYLENE	UG/L	25	7	72	54993	9800
	1,2-DICHLOROPROPANE	UG/L	L 1	L 1		4	7
	ETHYLBENZENE	UG/L	44	L 1	98	1467	910
	METHYLENE CHLORIDE	UG/L	282	128	55	142	16
	DICHLOROBROMOMETHANE	UG/L	L 1	L 1		84	N-D
	TETRACHLOROETHYLENE	UG/L	385	134	65	958	10
	TOLUENE	UG/L	36	0	100	984	1847
	TRICHLOROETHYLENE	UG/L	497	37	93	467	120
	VINYL CHLORIDE	UG/L	L 33	L 33		N-D	27
ACID EXTRACT	2,4-DIMETHYLPHENOL	UG/L	3	L 1	67	N-D	N-D
	2-NITROPHENOL	UG/L	L 2	L 2		N-D	37
	2,4-DINITROPHENOL	UG/L	L 50	L 50		N-D	200
	PENTACHLOROPHENOL	UG/L	9	L 5	44	25	N-D
	PHENOL	UG/L	18	1	94	103	70
BASE-NEUTRALS	ACENAPHTHENE	UG/L	L 4	L 4		N-D	65
	1,2-DICHLOROBENZENE	UG/L	105	6	94	282	116
	1,3-DICHLOROBENZENE	UG/L	L 5	L 5		252	10
	1,4-DICHLOROBENZENE	UG/L	13	2	85	1128	425
	FLUORANTHENE	UG/L	L 3	L 3		114	51
	ISOPHORONE	UG/L	L 10	3		N-D	N-D
	NAPHTHALENE	UG/L	51	L 3	94	640	445
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	31	11	65	8188	8437
	BUTYL BENZYL PHTHALATE	UG/L	60	2	97	2650	4400
	DI-N-BUTYL PHTHALATE	UG/L	18	6	67	427	33
	DIETHYL PHTHALATE	UG/L	7	1	86	N-D	N-D

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 4

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM.		UNTREAT. COMB. SLUDGE		DIGESTED COMB. SLUDGE
BASE-NEUTRALS	DIMETHYL PHTHALATE	UG/L		3	L	3			N-D		N-D
	1,2-BENZANTHRACENE	UG/L	L	3	L	3			16		59
	3,4-BENZOFLUORANTHENE	UG/L	L	8	L	8			23		25
	11,12-BENZOFLUORANTHENE	UG/L	L	8	L	8			23		25
	CHRYSENE	UG/L	L	3	L	3			16		59
	ACENAPHTHYLENE	UG/L	L	2	L	2			N-D		28
	ANTHRACENE	UG/L		0	L	3			602		375
	FLUORENE	UG/L	L	3	L	3			19		38
	PHENANTHRENE	UG/L		0	L	3			602		375
	INDENO(1,2,3-C,D) PYRENE	UG/L		1	L	15			N-D		N-D
	PYRENE	UG/L	L	2	L	2			121		90
PESTICIDES	DIELDRIN	NG/L		5	L	30		L	1000	L	1000
	HEPTACHLOR	NG/L		13	L	20		L	1000	L	1000
	ALPHA-BHC	NG/L	L	30		5		L	1000	L	1000
	GAMMA-BHC	NG/L		55		163		L	1000	L	1000
METALS	ANTIMONY	UG/L	L	50	L	50			116		116
	ARSENIC	UG/L	L	50	L	50			403		333
	BERYLLIUM	UG/L	L	2	L	2			25		30
	CADMIUM	UG/L		2		1	50		518		660
	CHROMIUM	UG/L		80		29	64		17500		25833
	COPPER	UG/L		47		17	64		10800		15333
	CYANIDE	UG/L		37		12	68		193		407
	LEAD	UG/L		127		53	58		41000		49333
	MERCURY	NG/L		1250		450	64		360000		463333
	NICKEL	UG/L		20		7	65		2567		3083
	SELENIUM	UG/L	L	50	L	50			20		23
	SILVER	UG/L		18		3	83		1967		2378
	ZINC	UG/L		494		223	55		143333		171667
NON-CONV. METALS	ALUMINUM	UG/L		2460		584	76		NOT RUN		NOT RUN
	BARIUM	UG/L		133		33	75		NOT RUN		NOT RUN
	CALCIUM	MG/L		16		36			NOT RUN		NOT RUN
	IRON	UG/L		7358		2365	68		NOT RUN		NOT RUN
	MAGNESIUM	MG/L		3		2	33		NOT RUN		NOT RUN
	MANGANESE	UG/L		633		179	72		NOT RUN		NOT RUN
	SODIUM	MG/L		32		29	9		NOT RUN		NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 5

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	COMBINED SLUDGE	DIGESTED SLUDGE
CONVENTIONALS	BOD	MG/L	138	13	91	15671	3182
	TOTAL SUSP. SOLIDS	MG/L	147	12	92	26433	17438
	COD	MG/L	374	68	82	35283	12712
	OIL & GREASE	MG/L	33	3	91	4188	2746
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	30	8	73	99	258
	TOTAL SOLIDS	MG/L	889	695	22	29864	18407
	TOTAL DISS. SOLIDS	MG/L	742	683	8	3431	1016
	SETTLEABLE SOLIDS	ML/L	7	L 1	86	992	860
	TOTAL VOLATILE SOLIDS	MG/L	480	371	23	657	161
	VOLATILE DISS. SOLIDS	MG/L	360	360		2426	359
	TOTAL VOL. SUS. SOLIDS	MG/L	120	11	91	19182	8362
	AMMONIA NITROGEN	MG/L	12	7	42	35	419
	TOC	MG/L	64	14	78	7527	1275
VOLATILES	BENZENE	UG/L	5	1	80	42	5
	CHLOROBENZENE	UG/L	0	1		N-D	1
	1,1,1-TRICHLOROETHANE	UG/L	19	3	84	N-D	2
	1,1,2,2-TETRACHLOROETHANE	UG/L	1	L 1		40	45
	2-CHLOROETHYL VINYL ETHER	UG/L	L 8	L 8		N-D	0
	CHLOROFORM	UG/L	12	7	42	2	6
	1,1-DICHLOROETHYLENE	UG/L	0	L 1		22	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	2	L 2		1541	22
	1,2-DICHLOROPROPANE	UG/L	0	L 1		8	N-D
	1,3-DICHLOROPROPYLENE	UG/L	4	L 2	50	N-D	N-D
	ETHYLBENZENE	UG/L	10	1	90	166	73
	METHYLENE CHLORIDE	UG/L	676	468	31	101	11
	METHYL CHLORIDE	UG/L	L 34	L 34		45	9
	DICHLOROBROMOMETHANE	UG/L	3	2	33	N-D	N-D
	CHLORODIBROMOMETHANE	UG/L	1	1		3	1
	TETRACHLOROETHYLENE	UG/L	115	26	77	14	N-D
	TOLUENE	UG/L	37	0	100	199	124
	TRICHLOROETHYLENE	UG/L	49	14	71	163	2
	VINYL CHLORIDE	UG/L	L 33	L 33		3292	117
ACID EXTRACT	2,4-DICHLOROPHENOL	UG/L	L 1	L 1		N-D	4
	2,4-DIMETHYLPHENOL	UG/L	0	L 1		N-D	N-D
	PENTACHLOROPHENOL	UG/L	L 5	L 5		N-D	5
	PHENOL	UG/L	1	0	100	27	48
BASE-NEUTRALS	ACENAPHTHENE	UG/L	L 4	L 4		20	13
	1,2-DICHLOROBENZENE	UG/L	L 5	L 5		3	N-D
	1,4-DICHLOROBENZENE	UG/L	L 5	L 5		15	6
	FLUORANTHENE	UG/L	L 3	L 3		N-D	10
	NAPHTHALENE	UG/L	3	L 3		118	32
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	28	6	79	3598	4170
	BUTYL BENZYL PHTHALATE	UG/L	6	L 2	67	450	152
	DI-N-BUTYL PHTHALATE	UG/L	3	L 2	33	N-D	N-D
	DI-N-OCTYL PHTHALATE	UG/L	L 4	L 4		47	48
	DIETHYL PHTHALATE	UG/L	2	L 2		N-D	N-D
	ANTHRACENE	UG/L	L 3	L 3		92	102
	PHENANTHRENE	UG/L	L 3	L 3		92	102

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 5

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	COMBINED SLUDGE	DIGESTED SLUDGE
BASE-NEUTRALS	PYRENE	UG/L	L 2	L 2		10	9
PESTICIDES	BETA-BHC	NG/L	L 1000	12		L 1000	L 1000
	GAMMA-BHC	NG/L	L 1000	55		L 1000	L 1000
METALS	ANTIMONY	UG/L	L 50	L 50		55	52
	ARSENIC	UG/L	L 50	L 50		78	69
	BERYLLIUM	UG/L	1	L 2		6	6
	CADMIUM	UG/L	6	1	83	385	312
	CHROMIUM	UG/L	102	35	66	8317	7767
	COPPER	UG/L	70	31	56	3000	2767
	CYANIDE	UG/L	12	5	58	221	28
	LEAD	UG/L	67	4	94	8967	9167
	NICKEL	UG/L	12	L 10	17	1077	1240
	SELENIUM	UG/L	L 50	L 50		53	41
	SILVER	UG/L	23	2	91	1103	800
	ZINC	UG/L	248	66	73	23833	24167
NON-CONV. METALS	ALUMINUM	UG/L	817	155	81	NOT RUN	NOT RUN
	BARIUM	UG/L	101	54	47	NOT RUN	NOT RUN
	CALCIUM	MG/L	74	70	5	NOT RUN	NOT RUN
	IRON	UG/L	1192	274	77	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	28	27	4	NOT RUN	NOT RUN
	MANGANESE	UG/L	234	203	13	NOT RUN	NOT RUN
	SODIUM	MG/L	89	87	2	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 6

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	DIGESTED SLUDGE
CONVENTIONALS	BOD	MG/L	263	18	93	18857	16856
	TOTAL SUSP. SOLIDS	MG/L	632	27	96	51342	47758
	COD	MG/L	904	131	86	55386	51787
	OIL & GREASE	MG/L	54	7	87	4988	4948
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	309	38	88	4672	7420
	TOTAL SOLIDS	MG/L	1370	683	50	53717	49232
	TOTAL DISS. SOLIDS	MG/L	678	646	5	4618	1140
	SETTLEABLE SOLIDS	ML/L	493	17	97	1825	1775
	TOTAL VOLATILE SOLIDS	MG/L	678	132	81	41398	37662
	VOLATILE DISS. SOLIDS	MG/L	161	117	27	382	534
	TOTAL VOL. SUS. SOLIDS	MG/L	530	22	96	41017	37250
	AMMONIA NITROGEN	MG/L	20	12	40	82	585
	TOC	MG/L	391	40	90	24008	25625
VOLATILES	BENZENE	UG/L	1	0	100	12	11
	CARBON TETRACHLORIDE	UG/L	L 2	L 2		10	N-D
	CHLOROBENZENE	UG/L	L 1	L 1		0	0
	1,2-DICHLOROETHANE	UG/L	11	1	91	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	417	47	89	33	N-D
	1,1-DICHLOROETHANE	UG/L	8	1	88	212	N-D
	1,1,2-TRICHLOROETHANE	UG/L	1	L 2		N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 1	L 1		N-D	1
	CHLOROETHANE	UG/L	L 15	L 15		167	1800
	CHLOROFORM	UG/L	6	3	50	N-D	N-D
	1,1-DICHLOROETHYLENE	UG/L	43	0	100	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	35	8	77	878	116
	ETHYLBENZENE	UG/L	1	L 1		317	392
	METHYLENE CHLORIDE	UG/L	32	23	28	64	28
	METHYL CHLORIDE	UG/L	33	L 34		N-D	N-D
	DICHLOROBROMOMETHANE	UG/L	1	0	100	N-D	N-D
	TRICHLOROFLUOROMETHANE	UG/L	6	6		N-D	N-D
	TETRACHLOROETHYLENE	UG/L	9	0	100	58	52
	TOLUENE	UG/L	191	20	90	475	423
	TRICHLOROETHYLENE	UG/L	487	64	87	32	4
	VINYL CHLORIDE	UG/L	1698	101	94	34000	33800
ACID EXTRACT	PARACHLOROMETA CRESOL	UG/L	9	1	89	N-D	N-D
	2,4-DICHLOROPHENOL	UG/L	1	L 1		N-D	N-D
	PENTACHLOROPHENOL	UG/L	15	2	87	N-D	N-D
	PHENOL	UG/L	1	0	100	882	1833
BASE-NEUTRALS	ACENAPHTHENE	UG/L	1	1		N-D	N-D
	1,3-DICHLOROBENZENE	UG/L	3	L 1	67	N-D	N-D
	1,4-DICHLOROBENZENE	UG/L	1	L 1		N-D	N-D
	2,4-DINITROTOLUENE	UG/L	1	1		N-D	N-D
	NAPHTHALENE	UG/L	1	L 2		N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	64	9	86	5200	4086
	BUTYL BENZYL PHTHALATE	UG/L	L 5	0		1500	N-D
	DI-N-BUTYL PHTHALATE	UG/L	38	11	71	543	N-D
	DIETHYL PHTHALATE	UG/L	15	2	87	N-D	N-D
	1,2-BENZANTHRACENE	UG/L	L 5	1		565	62

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 6

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	DIGESTED SLUDGE
BASE-NEUTRALS	CHRYSENE	UG/L	L	5		1		565	62
	ANTHRACENE	UG/L		52		11	79	1505	994
	1,12-BENZOPERYLENE	UG/L		6		1	83	N-D	N-D
	FLUORENE	UG/L	L	5		0		N-D	N-D
	PHENANTHRENE	UG/L		52		11	79	1505	994
METALS	ANTIMONY	UG/L	L	50	L	50		393	350
	ARSENIC	UG/L	L	50	L	50		310	212
	BERYLLIUM	UG/L	L	2	L	2		11	9
	CADMIUM	UG/L		1076		65	94	82500	79833
	CHROMIUM	UG/L		1390		62	96	74333	73833
	COPPER	UG/L		760		47	94	51333	46000
	CYANIDE	UG/L		99		389		22123	17597
	LEAD	UG/L		199		18	91	16167	9667
	MERCURY	NG/L		3233		200	94	601667	486667
	NICKEL	UG/L		701		294	58	17000	17500
	SELENIUM	UG/L	L	50	L	50		162	152
	SILVER	UG/L		15		3	80	823	802
	ZINC	UG/L		4935		475	90	386667	365000
NON-CONV. METALS	ALUMINUM	UG/L		2380		134	94	NOT RUN	NOT RUN
	BARIUM	UG/L		302		31	90	NOT RUN	NOT RUN
	CALCIUM	MG/L		56		46	18	NOT RUN	NOT RUN
	IRON	UG/L		7363		421	94	NOT RUN	NOT RUN
	MAGNESIUM	MG/L		15		13	13	NOT RUN	NOT RUN
	MANGANESE	UG/L		285		151	47	NOT RUN	NOT RUN
	SODIUM	MG/L		141		134	5	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 7

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM	COMBINED SLUDGE	HEAT TRT SLUDGE	HEAT TRT DECANT
CONVENTIONALS	BOD	MG/L	169	29	83	27484	29013	13964
	TOTAL SUSP. SOLIDS	MG/L	135	18	87	35057	26313	2877
	COD	MG/L	328	97	70	52081	57922	20110
	OIL & GREASE	MG/L	41	9	78	7983	9608	533
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	55	8	85	1133	3512	4122
	TOTAL SOLIDS	MG/L	862	849	2	41248	34823	14116
	TOTAL DISS. SOLIDS	MG/L	718	831		4262	9578	11239
	SETTLEABLE SOLIDS	ML/L	3	L 1	67	670	343	33
	TOTAL VOLATILE SOLIDS	MG/L	329	284	14	27934	23131	11496
	VOLATILE DISS. SOLIDS	MG/L	225	271		2243	7581	9881
	TOTAL VOL. SUS. SOLIDS	MG/L	105	14	87	22103	15217	1615
	AMMONIA NITROGEN	MG/L	13	14		257	516	433
	TOC	MG/L	65	24	63	9050	8433	8767
VOLATILES	BENZENE	UG/L	1	L 5		95	507	22
	CHLOROBENZENE	UG/L	L 5	L 5		6	1	0
	1,1,1-TRICHLOROETHANE	UG/L	49	7	86	N-D	N-D	L 5
	1,1-DICHLOROETHANE	UG/L	1	L 5		352	N-D	L 5
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 5	L 5		26	N-D	L 5
	CHLOROFORM	UG/L	5	1	80	7	N-D	L 5
	1,2-TRANS-DICHLOROETHYLENE	UG/L	2	3		1517	283	9
	1,2-DICHLOROPROPANE	UG/L	L 5	L 5		N-D	8	L 5
	1,3-DICHLOROPROPYLENE	UG/L	L 5	L 5		N-D	55	L 5
	ETHYLBENZENE	UG/L	22	L 5	77	2100	460	18
	METHYLENE CHLORIDE	UG/L	36	23	36	8	1	38
	DICHLORODIFLUOROMETHANE	UG/L	L 5	L 5		32	N-D	L 5
	TETRACHLOROETHYLENE	UG/L	15	3	80	1	15	L 5
	TOLUENE	UG/L	15	1	93	4615	2343	63
	TRICHLOROETHYLENE	UG/L	17	4	76	2	7	L 5
ACID EXTRACT	PENTACHLOROPHENOL	UG/L	L 27	L 250		1000	N-D	L 250
	PHENOL	UG/L	15	L 300		173	1717	907
BASE-NEUTRALS	1,2-DICHLOROBENZENE	UG/L	3	L 11		233	50	17
	1,3-DICHLOROBENZENE	UG/L	L 11	L 11		35	N-D	L 100
	1,4-DICHLOROBENZENE	UG/L	L 11	L 11		28	10	L 100
	FLUORANTHENE	UG/L	L 5	L 11		143	13	L 50
	NAPHTHALENE	UG/L	8	L 11		180	16	2
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	217	90	59	11257	10117	1498
	BUTYL BENZYL PHTHALATE	UG/L	7	L 11		1162	735	L 100
	DI-N-BUTYL PHTHALATE	UG/L	3	L 11		318	265	L 100
	DIETHYL PHTHALATE	UG/L	7	L 11		N-D	N-D	L 100
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		153	25	L 50
	CHRYSENE	UG/L	L 5	L 5		153	25	L 50
	ANTHRACENE	UG/L	L 11	L 11		827	407	L 100
	PHENANTHRENE	UG/L	L 11	L 11		827	407	L 100
	PYRENE	UG/L	L 5	L 5		160	14	L 50
PESTICIDES	HEPTACHLOR	NG/L	417	L 1000	L 1000	L 1000		333
	HEPTACHLOR EPOXIDE	NG/L	83	83	L 1000	L 1000		83
	GAMMA-BHC	NG/L	500	500	L 1000	L 1000		167

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 7

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM	COMBINED SLUDGE	HEAT TRT SLUDGE	HEAT TRT DECANT
PESTICIDES	DELTA-BHC	NG/L	83	L 1000		L 1000	L 1000	L 1000
METALS	ANTIMONY	UG/L	6	3	50	1403	1047	54
	ARSENIC	UG/L	L 3	L 3		332	207	56
	BERYLLIUM	UG/L	0	3		L 10	L 10	1
	CADMIUM	UG/L	5	5		498	313	139
	CHROMIUM	UG/L	289	52	82	72667	56000	9569
	COPPER	UG/L	223	39	83	45833	35333	5701
	CYANIDE	UG/L	42	24	43	2503	278	49
	LEAD	UG/L	72	47	35	44167	6133	1701
	MERCURY	NG/L	1000	1000		205000	140500	1000
	NICKEL	UG/L	345	325	6	27333	20667	9888
	SELENIUM	UG/L	L 3	L 3		153	93	8
	SILVER	UG/L	5	1	80	177	185	27
	THALLIUM	UG/L	L 25	L 25		L 10	L 10	52
	ZINC	UG/L	619	108	83	128333	98833	32602
NON-CONV. METALS	ALUMINUM	UG/L	464	87	81	NOT RUN	NOT RUN	15523
	BARIUM	UG/L	84	23	73	NOT RUN	NOT RUN	935
	BORON	UG/L	759	787		NOT RUN	NOT RUN	1055
	CALCIUM	MG/L	74	72	3	NOT RUN	NOT RUN	308
	COBALT	UG/L	11	10	9	NOT RUN	NOT RUN	190
	IRON	UG/L	3463	407	88	NOT RUN	NOT RUN	46081
	MAGNESIUM	MG/L	20	19	5	NOT RUN	NOT RUN	70
	MANGANESE	UG/L	62	60	3	NOT RUN	NOT RUN	1104
	MOLYBDENUM	UG/L	17	15	12	NOT RUN	NOT RUN	154
	SODIUM	MG/L	131	130	1	NOT RUN	NOT RUN	164
	TIN	UG/L	23	13	43	NOT RUN	NOT RUN	391
	TITANIUM	UG/L	7	4	43	NOT RUN	NOT RUN	171
	VANADIUM	UG/L	142	132	7	NOT RUN	NOT RUN	662
	YTTRIUM	UG/L	3	3		NOT RUN	NOT RUN	18

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 8

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	COMBINED SLUDGE	HEAT TRT SLUDGE	HEAT TRT DECANT
CONV.	BOD	MG/L	238	42	82	32667	27200	55833	9378
	TOTAL SUSP. SOLIDS	MG/L	205	69	66	107733	76755	189100	273
	COD	MG/L	544	211	61	178667	118333	290667	16333
	OIL & GREASE	MG/L	115	14	88	50467	24550	62375	38
NON-CONV.	TOTAL PHENOLS	UG/L	72	13	82	1817	2413	7150	3200
	TOTAL SOLIDS	MG/L	928	746	20	116174	84439	194996	10590
	TOTAL DISS. SOLIDS	MG/L	723	677	6	6487	3306	7550	10317
	SETTLEABLE SOLIDS	ML/L	4	2	50	820	810	940	1
	TOTAL VOLATILE SOLIDS	MG/L	453	321	29	71742	53549	109432	8942
	VOLATILE DISS. SOLIDS	MG/L	309	268	13	3961	2343	5733	8774
	TOTAL VOL. SUS. SOLIDS	MG/L	144	53	63	66583	44733	102933	172
	AMMONIA NITROGEN	MG/L	16	20		200	653	709	900
	TOC	MG/L	119	52	56	14333	13833	17333	6767
VOLATILES	ACRYLONITRILE	UG/L	L 19	L 19		33	25	165	L 19
	BENZENE	UG/L	2	7		11	16	773	22
	CHLOROBENZENE	UG/L	L 1	L 1		15	L 5	33	1
	1,1,1-TRICHLOROETHANE	UG/L	33	L 2	94	73	L 5	13	L 2
	1,1-DICHLOROETHANE	UG/L	1	L 1		193	1	L 5	L 1
	1,1,2-TRICHLOROETHANE	UG/L	L 2	L 2		L 5	3	L 5	L 2
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 1	L 1		1	L 5	13	L 1
	CHLOROETHANE	UG/L	L 15	L 15		L 5	2000	L 5	L 15
	CHLOROFORM	UG/L	8	11		3	L 5	L 5	L 1
	1,1-DICHLOROETHYLENE	UG/L	L 1	L 1		17	L 5	5	L 1
	1,2-TRANS-DICHLOROETHYLENE	UG/L	L 2	L 2		1333	1259	805	L 2
	1,2-DICHLOROPROPANE	UG/L	1	L 1		7	2	3	L 1
	ETHYLBENZENE	UG/L	15	2	87	770	359	1266	7
	METHYLENE CHLORIDE	UG/L	14	7	50	L 5	L 5	L 5	19
	METHYL CHLORIDE	UG/L	L 34	L 34		L 5	L 5	125	L 34
	METHYL BROMIDE	UG/L	L 6	L 6		11	L 5	5	L 6
	DICHLORODIFLUOROMETHANE	UG/L	L 30	L 30		1533	494	1893	L 30
	TETRACHLOROETHYLENE	UG/L	26	1	96	10	3	240	L 2
	TOLUENE	UG/L	229	288		7710	7635	41575	1825
	TRICHLOROETHYLENE	UG/L	30	0	100	19	5	185	2
	VINYL CHLORIDE	UG/L	L 33	L 33		L 5	250	L 5	L 33
ACIDS	2,4-DICHLOROPHENOL	UG/L	0	0		N-D	N-D	N-D	2
	PENTACHLOROPHENOL	UG/L	18	17	6	2267	823	1300	60
	PHENOL	UG/L	9	1	89	847	610	1238	334
BASE-NEUT.	ACENAPHTHENE	UG/L	L 10	L 10		N-D	1150	N-D	L 10
	HEXACHLOROBENZENE	UG/L	L 9	L 9		N-D	195	N-D	L 9
	2-CHLORONAPHTHALENE	UG/L	L 3	L 3		N-D	400	N-D	L 3
	1,2-DICHLOROBENZENE	UG/L	L 2	L 2		N-D	258	N-D	L 2
	1,3-DICHLOROBENZENE	UG/L	L 2	L 2		N-D	475	N-D	L 2
	1,4-DICHLOROBENZENE	UG/L	1	L 2		N-D	325	N-D	L 2
	FLUORANTHENE	UG/L	1	L 3		587	600	577	L 3
	HEXACHLOROBUTADIENE	UG/L	L 8	L 8		N-D	675	N-D	L 8
	NAPHTHALENE	UG/L	12	L 2	83	1833	1159	686	2
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	33	7	79	17000	10500	20200	6
	BUTYL BENZYL PHTHALATE	UG/L	50	4	92	34667	17775	33425	L 3
	DI-N-BUTYL PHTHALATE	UG/L	2	4		1067	1045	1688	L 3

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L-LESS THAN; N-D-NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 8

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	COMBINED SLUDGE	HEAT TRT SLUDGE	HEAT TRT DECANT
BASE-NEUT.	DIETHYL PHTHALATE	UG/L	2	L 4		N-D	N-D	N-D	L 4
	DIMETHYL PHTHALATE	UG/L	L 6	L 6		217	160	N-D	L 6
	1,2-BENZANTHRACENE	UG/L	L 3	L 3		433	750	119	L 3
	BENZO (A)PYRENE	UG/L	L 25	L 25		N-D	N-D	11	L 25
	CHRYSENE	UG/L	L 3	L 3		433	750	119	L 3
	ANTHRACENE	UG/L	2	L 3		550	1565	690	L 3
	PHENANTHRENE	UG/L	2	L 3		550	1565	690	L 3
	PYRENE	UG/L	L 3	L 3		903	734	768	L 3
METALS	ANTIMONY	UG/L	L 50	L 50		1277	1015	1825	L 500
	ARSENIC	UG/L	L 50	L 50		1033	695	1463	L 500
	BERYLLIUM	UG/L	L 2	L 3		33	22	44	L 2
	CADMIUM	UG/L	1	L 2		470	450	780	L 2
	CHROMIUM	UG/L	256	85	67	118667	101250	150000	1155
	COPPER	UG/L	337	108	68	140667	120500	202500	212
	CYANIDE	UG/L	11	4	64	2787	3040	1526	44
	LEAD	UG/L	329	85	74	65667	98750	95250	192
	MERCURY	NG/L	350	L 200	43	250000	172500	505000	225
	NICKEL	UG/L	427	236	45	71000	60000	92000	6945
	SELENIUM	UG/L	L 50	26		233	170	328	L 500
	SILVER	UG/L	13	1	92	187	160	160	L 2
	ZINC	UG/L	1722	500	71	913333	715000	1335000	7495
N-C METALS	ALUMINUM	UG/L	1278	474	63	N-D	N-D	N-D	1323
	BARIUM	UG/L	539	185	66	N-D	N-D	N-D	373
	CALCIUM	MG/L	54	59		N-D	N-D	N-D	146
	IRON	UG/L	5460	1814	67	N-D	N-D	N-D	19300
	MAGNESIUM	MG/L	15	15		N-D	N-D	N-D	33
	MANGANESE	UG/L	190	152	20	N-D	N-D	N-D	843
	SODIUM	MG/L	140	139	1	N-D	N-D	N-D	97

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L-LESS THAN; N-D-NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 9

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	113	5	96	10866	1846
	TOTAL SUSP. SOLIDS	MG/L	149	14	91	39536	6281
	COD	MG/L	267	36	87	49365	6762
	OIL & GREASE	MG/L	36	6	83	1583	165
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	67	7	90	657	379
	TOTAL SOLIDS	MG/L	455	292	36	40697	6713
	TOTAL DISS. SOLIDS	MG/L	234	235		1162	434
	SETTLEABLE SOLIDS	ML/L	9	L 1	89	NOT RUN	NOT RUN
	TOTAL VOLATILE SOLIDS	MG/L	190	66	65	30668	4690
	VOLATILE DISS. SOLIDS	MG/L	54	50	7	394	34
	TOTAL VOL. SUS. SOLIDS	MG/L	131	9	93	30274	4657
	AMMONIA NITROGEN	MG/L	10	3	70	103	31
	TOC	MG/L	86	12	86	10487	1610
VOLATILES	BENZENE	UG/L	1	4		6	L 5
	CARBON TETRACHLORIDE	UG/L	1	L 5		N-D	N-D
	CHLOROBENZENE	UG/L	L 5	1		8	L 5
	1,1,1-TRICHLOROETHANE	UG/L	L 5	L 5		6	L 5
	1,1-DICHLOROETHANE	UG/L	L 5	L 5		195	L 5
	1,1,2-TRICHLOROETHANE	UG/L	23	1	96	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	1	L 5		1	L 5
	CHLOROETHANE	UG/L	L 5	L 5		16450	685
	CHLOROFORM	UG/L	4	2	50	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	L 5	L 5		408	20
	1,2-DICHLOROPROPANE	UG/L	L 5	L 5		6	L 5
	ETHYLBENZENE	UG/L	1	1		51	2
	METHYLENE CHLORIDE	UG/L	5	L 5		7	L 5
	METHYL CHLORIDE	UG/L	2	2		1267	L 5
	METHYL BROMIDE	UG/L	L 5	L 5		11270	503
	TETRACHLOROETHYLENE	UG/L	4	0	100	45	L 5
	TOLUENE	UG/L	8	0	100	1694	1167
	TRICHLOROETHYLENE	UG/L	33	L 5	85	193	2
	VINYL CHLORIDE	UG/L	L 5	L 5		5847	12
ACID EXTRACT	PARACHLOROMETA CRESOL	UG/L	2	L 50		N-D	N-D
	4,6-DINITRO-O-CRESOL	UG/L	L 50	0		N-D	N-D
	PHENOL	UG/L	2	L 60		33	478
BASE-NEUTRALS	HEXACHLOROBENZENE	UG/L	L 20	L 20		N-D	5
	FLUORANTHENE	UG/L	L 10	L 10		85	9
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	5	L 20		2817	460
	BUTYL BENZYL PHTHALATE	UG/L	L 20	L 20		767	47
	DI-N-BUTYL PHTHALATE	UG/L	13	16		110	12
	DIETHYL PHTHALATE	UG/L	11	2	82	7	8
	DIMETHYL PHTHALATE	UG/L	L 20	L 20		17	5
	1,2-BENZANTHRACENE	UG/L	L 10	L 10		11	8
	BENZO (A)PYRENE	UG/L	L 10	L 10		50	N-D
	11,12-BENZOFLUORANTHENE	UG/L	L 10	L 10		10	N-D
	CHRYSENE	UG/L	L 10	L 10		N-D	8
	ANTHRACENE	UG/L	L 20	L 20		92	16
	PHENANTHRENE	UG/L	L 20	L 20		92	16

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 9

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	SECONDARY SLUDGE
BASE-NEUTRALS	PYRENE	UG/L	L 10	L 10		72	12
METALS	ANTIMONY	UG/L	0	0		40	14
	ARSENIC	UG/L	2	2		37	19
	BERYLLIUM	UG/L	L 1	L 1		1	L 6
	CADMIUM	UG/L	3	2	33	257	152
	CHROMIUM	UG/L	55	3	95	7333	2767
	COPPER	UG/L	70	26	63	11833	3900
	CYANIDE	UG/L	82	27	67	30523	440
	LEAD	UG/L	91	17	81	6200	2250
	MERCURY	NG/L	L 1000	L 1000		114667	46333
	NICKEL	UG/L	38	25	34	4767	858
	SELENIUM	UG/L	2	2		47	40
	SILVER	UG/L	11	1	91	128	328
	ZINC	UG/L	160	57	64	25983	4800
NON-CONV. METALS	ALUMINUM	UG/L	577	98	83	NOT RUN	NOT RUN
	BARIUM	UG/L	115	34	70	NOT RUN	NOT RUN
	BORON	UG/L	145	131	10	NOT RUN	NOT RUN
	CALCIUM	MG/L	29	27	7	NOT RUN	NOT RUN
	IRON	UG/L	1505	372	75	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	7	7		NOT RUN	NOT RUN
	MANGANESE	UG/L	169	91	46	NOT RUN	NOT RUN
	MOLYBDENUM	UG/L	L 36	7		NOT RUN	NOT RUN
	SODIUM	MG/L	46	46		NOT RUN	NOT RUN
	TIN	UG/L	20	L 26		NOT RUN	NOT RUN
	TITANIUM	UG/L	27	6	78	NOT RUN	NOT RUN
	VANADIUM	UG/L	4	2	50	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 10
WATER SAMPLE POINTS ONLY

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRE-CHLOR EFFLUENT	T.F. EFFLUENT
CONVENTIONALS	BOD	MG/L	242	16	93	NOT RUN	23
	TOTAL SUSP. SOLIDS	MG/L	222	16	93	NOT RUN	14
	OIL & GREASE	MG/L	75	17	77	NOT RUN	17
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	64	16	75	NOT RUN	116
	TOTAL SOLIDS	MG/L	850	544	36	NOT RUN	623
	TOTAL DISS. SOLIDS	MG/L	633	489	23	NOT RUN	593
	TOTAL VOLATILE SOLIDS	MG/L	279	128	54	NOT RUN	129
	AMMONIA NITROGEN	MG/L	24	9	63	NOT RUN	19
	TOC	MG/L	114	33	71	NOT RUN	46
VOLATILES	BENZENE	UG/L	0	L 1		L 1	L 1
	CARBON TETRACHLORIDE	UG/L	0	L 1		L 1	L 1
	1,1,1-TRICHLOROETHANE	UG/L	3	L 1	67	L 1	L 1
	1,1-DICHLOROETHANE	UG/L	1	L 1		L 1	L 1
	CHLOROETHANE	UG/L	1	L 10		L 10	L 10
	CHLOROFORM	UG/L	9	1	89	1	2
	1,2-DICHLOROPROPANE	UG/L	0	L 1		L 1	L 1
	ETHYLBENZENE	UG/L	4	L 6		L 6	L 1
	METHYLENE CHLORIDE	UG/L	81	53	35	34	50
	METHYL CHLORIDE	UG/L	50	4	92	L 10	L 10
	TETRACHLOROETHYLENE	UG/L	5	4	20	3	3
	TOLUENE	UG/L	12	L 1	92	L 1	0
	TRICHLOROETHYLENE	UG/L	56	L 1	98	L 1	L 1
	VINYL CHLORIDE	UG/L	L 10	0		L 10	L 10
ACID EXTRACT	PHENOL	UG/L	9	L 1	89	L 1	0
BASE-NEUTRALS	1,2,4-TRICHLOROBENZENE	UG/L	1	L 5		L 5	L 5
	1,2-DICHLOROBENZENE	UG/L	3	L 3		L 3	L 3
	1,3-DICHLOROBENZENE	UG/L	1	L 3		L 3	L 3
	1,4-DICHLOROBENZENE	UG/L	3	L 3		L 3	L 3
	NAPHTHALENE	UG/L	3	L 2	33	L 2	L 2
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	86	9	90	18	8
	BUTYL BENZYL PHTHALATE	UG/L	3	L 2	33	L 2	L 2
	DI-N-BUTYL PHTHALATE	UG/L	5	6		7	7
	DIETHYL PHTHALATE	UG/L	3	L 3		1	L 3
PESTICIDES	DIELDRIN	NG/L	L 30	L 30		L 30	7
	4,4'-DDD	NG/L	L 60	L 60		L 60	38
	ALPHA-BHC	NG/L	L 10	L 10		7	L 10
	BETA-BHC	NG/L	L 40	L 10		L 10	7
	GAMMA-BHC	NG/L	42	12	71	3	27
METALS	CADMIUM	UG/L	2	1	50	NOT RUN	6
	CHROMIUM	UG/L	16	32		NOT RUN	5
	COPPER	UG/L	72	11	85	NOT RUN	10
	CYANIDE	UG/L	822	163	80	NOT RUN	169
	LEAD	UG/L	34	L 20	41	NOT RUN	4
	MERCURY	NG/L	633	60	91	NOT RUN	L 200
	NICKEL	UG/L	4	35		NOT RUN	11

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 10
WATER SAMPLE POINTS ONLY

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRE-CHLOR EFFLUENT	T.F. EFFLUENT
METALS	SILVER	UG/L	8	2	75	NOT RUN	1
	ZINC	UG/L	208	73	65	NOT RUN	56
NON-CONV. METALS	ALUMINUM	UG/L	974	148	85	NOT RUN	43
	BARIUM	UG/L	78	19	76	NOT RUN	13
	CALCIUM	MG/L	40	35	13	NOT RUN	35
	IRON	UG/L	712	134	81	NOT RUN	79
	MAGNESIUM	MG/L	21	14	33	NOT RUN	18
	MANGANESE	UG/L	98	95	3	NOT RUN	90
	SODIUM	MG/L	109	80	27	NOT RUN	96

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 10
SLUDGE SAMPLE POINTS ONLY

FRACTION	PARAMETER	UNITS	PRIMARY SLUDGE	COMBINED SLUDGE	SECONDARY SLUDGE	OTHER SLUDGE	DIGESTER FEED
CONVENTIONALS	BOD	MG/L	6276	5556	239	8333	NOT RUN
	TOTAL SUSP. SOLIDS	MG/L	22250	10800	555	NOT RUN	5500
	OIL & GREASE	MG/L	290	295	56	109	271
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	718	473	41	725	430
	TOTAL SOLIDS	MG/L	18344	25375	1244	11469	11329
	TOTAL DISS. SOLIDS	MG/L	300	NOT RUN	843	NOT RUN	11600
	TOTAL VOLATILE SOLIDS	MG/L	12071	20178	600	8019	9400
	AMMONIA NITROGEN	MG/L	708	49	25	37	23
	TOC	MG/L	7570	16264	286	3894	4974
VOLATILES	ACRYLONITRILE	UG/L	N-D	N-D	N-D	3	N-D
	BENZENE	UG/L	4	11	0	1	1
	CHLOROBENZENE	UG/L	4	1	N-D	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	N-D	6	0	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	N-D	N-D	0	N-D	N-D
	CHLOROETHANE	UG/L	N-D	N-D	N-D	N-D	150
	CHLOROFORM	UG/L	1	N-D	0	N-D	N-D
	1,1-DICHLOROETHYLENE	UG/L	N-D	N-D	0	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	866	536	N-D	N-D	15
	1,2-DICHLOROPROPANE	UG/L	0	1	N-D	N-D	N-D
	ETHYLBENZENE	UG/L	119	45	1	N-D	1
	METHYLENE CHLORIDE	UG/L	N-D	37	1	N-D	N-D
	METHYL CHLORIDE	UG/L	2	N-D	N-D	18	N-D
	METHYL BROMIDE	UG/L	N-D	N-D	N-D	121	250
	DICHLOROBROMOMETHANE	UG/L	1	N-D	N-D	N-D	N-D
	DICHLORODIFLUOROMETHANE	UG/L	N-D	N-D	62	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	N-D	1	19	1	N-D
	TOLUENE	UG/L	2524	3042	12	701	2342
	TRICHLOROETHYLENE	UG/L	0	2	10	1	N-D
	VINYL CHLORIDE	UG/L	11	145	N-D	N-D	N-D
ACID EXTRACT	PHENOL	UG/L	1191	123	N-D	N-D	1300
BASE-NEUTRALS	ACENAPHTHENE	UG/L	N-D	N-D	N-D	N-D	9
	HEXACHLOROBENZENE	UG/L	N-D	48	N-D	N-D	N-D
	FLUORANTHENE	UG/L	18	N-D	N-D	N-D	13
	NAPHTHALENE	UG/L	51	N-D	N-D	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	3722	3800	344	1260	1080
	BUTYL BENZYL PHTHALATE	UG/L	158	85	14	110	47
	DI-N-BUTYL PHTHALATE	UG/L	15	26	4	N-D	50
	DIETHYL PHTHALATE	UG/L	43	N-D	N-D	N-D	N-D
	1,2-BENZANTHRACENE	UG/L	N-D	65	N-D	38	16
	CHRYSENE	UG/L	N-D	65	N-D	38	16
	ANTHRACENE	UG/L	79	47	11	5050	395
	FLUORENE	UG/L	28	N-D	N-D	100	N-D
	PHENANTHRENE	UG/L	79	47	11	5050	395
	PYRENE	UG/L	18	74	N-D	31	22
METALS	ANTIMONY	UG/L	41	108	8	10	20
	ARSENIC	UG/L	41	27	2	14	23
	BERYLLIUM	UG/L	4	4	2	4	4

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 10
SLUDGE SAMPLE POINTS ONLY

FRACTION	PARAMETER	UNITS	PRIMARY SLUDGE	COMBINED SLUDGE	SECONDARY SLUDGE	OTHER SLUDGE	DIGESTER FEED
METALS	CADMIUM	UG/L	875	190	24	660	244
	CHROMIUM	UG/L	7617	1600	175	6450	2800
	COPPER	UG/L	16200	7150	585	7950	4400
	CYANIDE	UG/L	51600	69187	440	1675	2445
	LEAD	UG/L	7150	6150	288	4450	2600
	MERCURY	NG/L	92833	44500	L 12000	34000	22000
	NICKEL	UG/L	2517	340	28	1350	560
	SELENIUM	UG/L	178	230	29	111	225
	SILVER	UG/L	508	45	92	265	550
	ZINC	UG/L	45700	21500	1903	16350	8600

POLLUTANTS NOT LISTED WERE NEVER DETECTED

SUMMARY OF ANALYTICAL DATA

PLANT 11

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	POST CL EFFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	99	27	73	NOT RUN	5555	1315
	TOTAL SUSP. SOLIDS	MG/L	171	14	92	NOT RUN	NOT RUN	1396
	OIL & GREASE	MG/L	66	8	88	NOT RUN	773	33
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	292	68	77	NOT RUN	322	20
	TOTAL SOLIDS	MG/L	1320	1166	12	NOT RUN	35600	2122
	TOTAL DISS. SOLIDS	MG/L	1127	1109	2	NOT RUN	NOT RUN	NOT RUN
	TOTAL VOLATILE SOLIDS	MG/L	292	203	30	NOT RUN	26238	886
	AMMONIA NITROGEN	MG/L	18	10	44	NOT RUN	51	16
	TOC	MG/L	72	30	58	NOT RUN	8778	370
VOLATILES	BENZENE	UG/L	33	1	97	2	401	2
	CARBON TETRACHLORIDE	UG/L	L 5	L 5		2	N-D	N-D
	CHLOROBENZENE	UG/L	L 5	L 5		L 5	125	6
	1,1,1-TRICHLOROETHANE	UG/L	170	12	93	13	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	6	0	100	0	223	70
	CHLOROETHANE	UG/L	L 5	L 5		L 5	517	N-D
	CHLOROFORM	UG/L	5	1	80	1	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	5	0	100	0	744	17
	1,3-DICHLOROPROPYLENE	UG/L	L 5	L 5		L 5	N-D	3
	ETHYLBENZENE	UG/L	10	1	90	1	193	11
	METHYLENE CHLORIDE	UG/L	90	21	77	30	1055	33
	METHYL CHLORIDE	UG/L	L 5	L 5		L 5	94	5
	DICHLOROBROMOMETHANE	UG/L	L 5	L 5		0	N-D	N-D
	TRICHLOROFLUOROMETHANE	UG/L	L 5	L 5		L 5	3	0
	TETRACHLOROETHYLENE	UG/L	55	7	87	11	2	1
	TOLUENE	UG/L	50	2	96	7	503	8
	TRICHLOROETHYLENE	UG/L	73	3	96	5	4	5
ACID EXTRACT	2,4-DIMETHYLPHENOL	UG/L	2	L 25		L 25	N-D	N-D
	PHENOL	UG/L	15	L 30		L 30	173	300
BASE-NEUTRALS	ACENAPHTHENE	UG/L	L 10	L 10		L 10	153	N-D
	HEXACHLOROBENZENE	UG/L	4	3	25	0	N-D	N-D
	1,2-DICHLOROBENZENE	UG/L	L 10	0		L 10	N-D	N-D
	NAPHTHALENE	UG/L	3	L 10		L 10	32	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	52	59		51	3883	924
	BUTYL BENZYL PHTHALATE	UG/L	1	L 10		0	213	N-D
	DI-N-BUTYL PHTHALATE	UG/L	4	2	50	2	41	N-D
	DIETHYL PHTHALATE	UG/L	2	1	50	0	N-D	N-D
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	22	N-D
	CHRYSENE	UG/L	L 5	L 5		L 5	22	N-D
	ANTHRACENE	UG/L	8	L 10		L 10	272	N-D
	PHENANTHRENE	UG/L	8	L 10		L 10	272	N-D
PESTICIDES	ALDRIN	NG/L	1667	1333	20	3667	N-D	N-D
	HEPTACHLOR	NG/L	L 1000	L 1000		167	N-D	N-D
	ALPHA-BHC	NG/L	500	L 1000		L 1000	N-D	N-D
	BETA-BHC	NG/L	167	L 1000		L 1000	N-D	N-D
	GAMMA-BHC	NG/L	L 1000	L 1000		333	N-D	N-D
METALS	ANTIMONY	UG/L	1	3		NOT RUN	98	8
	ARSENIC	UG/L	29	32		NOT RUN	175	12

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L-LESS THAN; N-D-NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 11

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	POST CL EFFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE
METALS	CADMIUM	UG/L	9	8	11	NOT RUN	498	29
	CHROMIUM	UG/L	152	45	70	NOT RUN	29950	1263
	COPPER	UG/L	245	62	75	NOT RUN	47917	1517
	CYANIDE	UG/L	713	308	57	NOT RUN	178667	497
	LEAD	UG/L	158	127	20	NOT RUN	8417	682
	MERCURY	NG/L	667	167	75	NOT RUN	331667	8167
	NICKEL	UG/L	64	49	23	NOT RUN	3933	48
	SELENIUM	UG/L	4	3	25	NOT RUN	104	10
	SILVER	UG/L	19	7	63	NOT RUN	493	170
	ZINC	UG/L	196	97	51	NOT RUN	40867	1185
NON-CONV. METALS	ALUMINUM	UG/L	903	314	65	NOT RUN	NOT RUN	NOT RUN
	BARIUM	UG/L	178	53	70	NOT RUN	NOT RUN	NOT RUN
	BORON	UG/L	223	252		NOT RUN	NOT RUN	NOT RUN
	CALCIUM	MG/L	90	81	10	NOT RUN	NOT RUN	NOT RUN
	COBALT	UG/L	88	118		NOT RUN	NOT RUN	NOT RUN
	IRON	UG/L	961	215	78	NOT RUN	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	36	89		NOT RUN	NOT RUN	NOT RUN
	MANGANESE	UG/L	52	40	23	NOT RUN	NOT RUN	NOT RUN
	MOLYBDENUM	UG/L	69	90		NOT RUN	NOT RUN	NOT RUN
	SODIUM	MG/L	208	204	2	NOT RUN	NOT RUN	NOT RUN
	TIN	UG/L	104	83	20	NOT RUN	NOT RUN	NOT RUN
	TITANIUM	UG/L	14	5	64	NOT RUN	NOT RUN	NOT RUN
	VANADIUM	UG/L	9	9		NOT RUN	NOT RUN	NOT RUN
	YTTRIUM	UG/L	1	22		NOT RUN	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
(LESS THAN [illegible] WERE NOT DETECTED)

SUMMARY OF ANALYTICAL DATA

PLANT 12

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	105	10	90	75	959	2563
	TOTAL SUSP. SOLIDS	MG/L	178	14	92	90	4420	9017
	COD	MG/L	372	107	71	257	4773	12240
	OIL & GREASE	MG/L	46	9	80	33	NOT RUN	NOT RUN
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	281	211	25	630	353	359
	TOTAL SOLIDS	MG/L	1055	835	21	940	4434	9043
	TOTAL DISS. SOLIDS	MG/L	830	813	2	844	5333	NOT RUN
	SETTLEABLE SOLIDS	ML/L	8	0	100	1	68	521
	TOTAL VOLATILE SOLIDS	MG/L	318	198	38	233	2961	6394
	VOLATILE DISS. SOLIDS	MG/L	192	184	4	212	2533	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	90	9	90	61	3050	5067
	AMMONIA NITROGEN	MG/L	18	13	28	17	31	24
	TOC	MG/L	59	17	71	50	508	1683
VOLATILES	BENZENE	UG/L	L 1	L 1		L 1	2	1
	CARBON TETRACHLORIDE	UG/L	L 1	L 1		1	N-D	N-D
	CHLOROBENZENE	UG/L	L 1	L 1		L 1	1	1
	1,2-DICHLOROETHANE	UG/L	L 1	L 1		L 1	1	N-D
	1,1,1-TRICHLOROETHANE	UG/L	64	10	84	34	0	N-D
	1,1-DICHLOROETHANE	UG/L	1	L 1		1	23	0
	1,1,2-TRICHLOROETHANE	UG/L	L 1	L 1		L 1	0	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 1	L 1		L 1	N-D	1
	CHLOROETHANE	UG/L	1	L 10		L 10	7	N-D
	CHLOROFORM	UG/L	3	1	67	2	N-D	0
	1,2-TRANS-DICHLOROETHYLENE	UG/L	2	L 1	50	L 1	292	1
	1,2-DICHLOROPROPANE	UG/L	L 1	L 1		L 1	0	N-D
	ETHYLBENZENE	UG/L	10	L 1	90	5	24	N-D
	METHYLENE CHLORIDE	UG/L	41	22	46	58	11	3
	METHYL CHLORIDE	UG/L	L 10	L 10		L 10	2	N-D
	TRICHLOROFLUOROMETHANE	UG/L	L 1	L 1		L 1	5	1
	DICHLORODIFLUOROMETHANE	UG/L	L 10	L 10		L 10	6	N-D
	TETRACHLOROETHYLENE	UG/L	31	8	74	56	N-D	N-D
	TOLUENE	UG/L	23	7	70	36	113	14652
	TRICHLOROETHYLENE	UG/L	100	28	72	81	0	N-D
	VINYL CHLORIDE	UG/L	L 10	L 10		L 10	17	292
ACID EXTRACT	2-CHLOROPHENOL	UG/L	0	L 1		L 1	N-D	N-D
	PHENOL	UG/L	5	L 1	80	4	N-D	400
BASE-NEUTRALS	1,2-DIPHENYLHYDRAZINE	UG/L	2	L 10		L 10	N-D	N-D
	FLUORANTHENE	UG/L	L 3	L 3		L 3	4	7
	ISOPHORONE	UG/L	L 16	L 16		3	N-D	N-D
	NAPHTHALENE	UG/L	2	L 2		1	8	6
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	20	10	50	21	425	965
	BUTYL BENZYL PHTHALATE	UG/L	L 5	L 5		L 5	11	N-D
	DI-N-BUTYL PHTHALATE	UG/L	L 6	L 6		L 6	16	7
	DIETHYL PHTHALATE	UG/L	L 6	L 6		L 6	10	47
	1,2-BENZANTHRACENE	UG/L	L 3	L 3		L 3	N-D	13
	CHRYSENE	UG/L	L 3	L 3		L 3	N-D	13
	ANTHRACENE	UG/L	L 3	L 3		1	37	5
	PHENANTHRENE	UG/L	L 3	L 3		1	37	5
	PYRENE	UG/L	L 3	L 3		L 3	11	39

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 12

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
PESTICIDES	ALPHA-BHC	NG/L	30	5	83	33	N-D	N-D
	GAMMA-BHC	NG/L	37	27	27	39	N-D	N-D
METALS	ANTIMONY	UG/L	145	42	71	266	1113	1297
	ARSENIC	UG/L	L 50	L 50		147	11	19
	BERYLLIUM	UG/L	L 2	L 2		153	L 6	L 6
	CADMIUM	UG/L	174	15	91	251	970	9105
	CHROMIUM	UG/L	414	48	88	440	3217	26683
	COPPER	UG/L	922	86	91	688	6183	41117
	CYANIDE	UG/L	891	375	58	177	2940	3370
	LEAD	UG/L	58	4	93	185	1020	1917
	MERCURY	NG/L	517	L 200	61	533	8333	17167
	NICKEL	UG/L	164	121	26	272	677	2943
	SELENIUM	UG/L	L 50	L 50		134	17	41
	SILVER	UG/L	4	L 2	50	2	80	157
	THALLIUM	UG/L	L 100	L 100		134	17	18
	ZINC	UG/L	1615	267	83	1100	12083	64317
NON-CONV. METALS	ALUMINUM	UG/L	366	36	90	329	NOT RUN	NOT RUN
	BARIUM	UG/L	244	94	61	329	NOT RUN	NOT RUN
	CALCIUM	MG/L	84	76	10	79	NOT RUN	NOT RUN
	IRON	UG/L	2888	257	91	1705	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	32	32		32	NOT RUN	NOT RUN
	MANGANESE	UG/L	109	77	29	248	NOT RUN	NOT RUN
	SODIUM	MG/L	145	140	3	143	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 13

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	TERTIARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	69	15	78	10	8530	6784
	TOTAL SUSP. SOLIDS	MG/L	150	13	91	6	38000	28422
	COD	MG/L	265	49	82	36	53867	22267
	OIL & GREASE	MG/L	36	15	58	12	4225	617
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	193	68	65	49	1889	329
	TOTAL SOLIDS	MG/L	891	739	17	720	58570	27410
	TOTAL DISS. SOLIDS	MG/L	706	695	2	722	12500	NOT RUN
	SETTLEABLE SOLIDS	ML/L	4	L 1	75	L 1	998	888
	TOTAL VOLATILE SOLIDS	MG/L	230	123	47	141	28143	15127
	VOLATILE DISS. SOLIDS	MG/L	194	130	33	170	3750	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	105	7	93	3	22500	5950
	AMMONIA NITROGEN	MG/L	17	2	88	1	153	13
	TOC	MG/L	49	9	82	9	8467	3650
VOLATILES	BENZENE	UG/L	L 1	L 1		L 1	13	4
	1,1,1-TRICHLOROETHANE	UG/L	1	L 1		L 1	N-D	N-D
	CHLOROFORM	UG/L	7	1	86	8	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	L 1	L 1		L 1	38	1
	ETHYLBENZENE	UG/L	3	L 1	67	L 1	24	N-D
	METHYLENE CHLORIDE	UG/L	3	0	100	1	56	25
	DICHLOROBROMOMETHANE	UG/L	L 1	L 1		3	N-D	N-D
	TRICHLOROFLUOROMETHANE	UG/L	L 1	L 1		L 1	43	17
	CHLORODIBROMOMETHANE	UG/L	L 1	L 1		1	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	11	1	91	0	N-D	N-D
	TOLUENE	UG/L	10	L 1	90	L 1	8810	9522
	TRICHLOROETHYLENE	UG/L	6	L 1	83	L 1	N-D	N-D
ACID EXTRACT	2,4-DINITROPHENOL	UG/L	1	L 5		L 5	N-D	N-D
	PENTACHLOROPHENOL	UG/L	3	1	67	1	N-D	N-D
	PHENOL	UG/L	1	0	100	1	602	291
BASE-NEUTRALS	FLUORANTHENE	UG/L	L 3	L 3		L 3	113	33
	NAPHTHALENE	UG/L	L 2	L 2		L 2	12	43
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	12	9	25	14	3151	1679
	BUTYL BENZYL PHTHALATE	UG/L	L 3	L 3		L 3	270	278
	DI-N-BUTYL PHTHALATE	UG/L	2	2		2	178	15
	DIETHYL PHTHALATE	UG/L	L 3	L 3		L 3	N-D	7
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	87	N-D
	11,12-BENZOFLUORANTHENE	UG/L	L 10	L 10		L 10	36	N-D
	CHRYSENE	UG/L	L 5	L 5		L 5	87	N-D
	ANTHRACENE	UG/L	L 3	L 3		L 3	173	143
	FLUORENE	UG/L	L 3	L 3		L 3	20	N-D
	PHENANTHRENE	UG/L	L 3	L 3		L 3	173	143
	PYRENE	UG/L	L 3	L 3		L 3	138	32
PESTICIDES	GAMMA-BHC	NG/L	L 100	14		19	N-D	N-D
	PCB-1242	NG/L	25033	275	99	82	N-D	N-D
	PCB-1254	NG/L	1483	L 500	66	83	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	102	34
	ARSENIC	UG/L	L 50	L 50		L 50	378	192
	CADMIUM	UG/L	L 2	L 2		L 2	344	155

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 13

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	TERTIARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	CHROMIUM	UG/L	55	3	95	L 5	22217	9267
	COPPER	UG/L	117	24	79	36	33100	14767
	CYANIDE	UG/L	2122	223	89	6454	104117	29033
	LEAD	UG/L	58	L 20	66	L 20	26000	10467
	MERCURY	NG/L	67	L 200		L 200	86833	33000
	NICKEL	UG/L	L 10	L 10		L 10	6067	2110
	SELENIUM	UG/L	L 50	L 50		L 50	67	50
	SILVER	UG/L	9	L 2	78	L 2	303	918
	THALLIUM	UG/L	L 100	L 100		L 100	5	6
	ZINC	UG/L	233	30	87	35	106517	45317
NON-CONV. METALS	ALUMINUM	UG/L	2563	182	93	105	NOT RUN	NOT RUN
	BARIUM	UG/L	130	49	62	29	NOT RUN	NOT RUN
	CALCIUM	MG/L	88	80	9	80	NOT RUN	NOT RUN
	IRON	UG/L	2212	113	95	81	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	34	32	6	31	NOT RUN	NOT RUN
	MANGANESE	UG/L	138	115	17	69	NOT RUN	NOT RUN
	SODIUM	MG/L	62	59	5	58	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 14

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	OTHER INFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	281	13	95	261	10688	2760
	TOTAL SUSP. SOLIDS	MG/L	190	9	95	511	NOT RUN	5200
	COD	MG/L	573	61	89	3233	43920	11462
	OIL & GREASE	MG/L	31	9	71	40	1808	397
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	125	34	73	233	1478	420
	TOTAL SOLIDS	MG/L	791	502	37	1263	38072	8922
	TOTAL DISS. SOLIDS	MG/L	632	506	20	528	NOT RUN	NOT RUN
	SETTLEABLE SOLIDS	ML/L	16	L 1	94	28	917	633
	TOTAL VOLATILE SOLIDS	MG/L	323	104	68	577	20283	5249
	VOLATILE DISS. SOLIDS	MG/L	123	68	45	NOT RUN	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	156	6	96	389	NOT RUN	3750
	AMMONIA NITROGEN	MG/L	7	5	29	18	86	22
	TOC	MG/L	222	50	77	300	10145	1709
VOLATILES	ACRYLONITRILE	UG/L	L 100	L 100		14	N-D	N-D
	BENZENE	UG/L	9	3	67	3	N-D	0
	CARBON TETRACHLORIDE	UG/L	10	L 5	50	2	N-D	N-D
	CHLOROBENZENE	UG/L	L 5	L 5		1	N-D	N-D
	1,2-DICHLOROETHANE	UG/L	L 5	L 5		11	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	74	1	99	L 5	N-D	N-D
	CHLOROFORM	UG/L	27	12	56	2	N-D	N-D
	1,1-DICHLOROETHYLENE	UG/L	13	L 5	62	L 5	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	5	L 5		L 5	49	N-D
	1,2-DICHLOROPROPANE	UG/L	0	L 5		L 5	N-D	N-D
	ETHYLBENZENE	UG/L	23	L 5	78	1	303	1
	METHYLENE CHLORIDE	UG/L	2058	46	98	10	124	0
	METHYL CHLORIDE	UG/L	7	20		0	N-D	N-D
	TRICHLOROFLUOROMETHANE	UG/L	L 5	L 5		L 5	9	N-D
	TETRACHLOROETHYLENE	UG/L	25	0	100	13	N-D	N-D
	TOLUENE	UG/L	73	1	99	120	26857	1952
	TRICHLOROETHYLENE	UG/L	73	0	100	7	N-D	N-D
ACID EXTRACT	2,4-DICHLOROPHENOL	UG/L	0	L 50		4	N-D	N-D
	PHENOL	UG/L	6	L 60		6	1528	387
BASE-NEUTRALS	2,4-DINITROTOLUENE	UG/L	1	L 20		0	N-D	N-D
	FLUORANTHENE	UG/L	L 20	L 20		L 20	14	N-D
	NAPHTHALENE	UG/L	1	L 20		L 20	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	10	83		9	2687	1268
	BUTYL BENZYL PHTHALATE	UG/L	1	L 20		L 20	N-D	N-D
	DI-N-BUTYL PHTHALATE	UG/L	10	3	70	3	12	N-D
	DIETHYL PHTHALATE	UG/L	1	L 20		0	N-D	N-D
	ANTHRACENE	UG/L	1	L 20		L 20	34	N-D
	PHENANTHRENE	UG/L	0	L 20		L 20	34	N-D
	PYRENE	UG/L	L 10	L 10		L 10	41	28
PESTICIDES	4,4'-DDT	NG/L	L 1000	L 1000		200	N-D	N-D
METALS	ANTIMONY	UG/L	5	2	60	9	138	80
	ARSENIC	UG/L	4	1	75	27	107	38
	BERYLLIUM	UG/L	L 1	0		1	L 6	L 6
	CADMIUM	UG/L	L 2	L 2		8	297	26

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 14

FRACTION	PARAMETER	UNITS	INFLUENT		SECONDARY EFFLUENT	PCNT REM.	OTHER INFLUENT	COMBINED SLUDGE		SECONDARY SLUDGE
METALS	CHROMIUM	UG/L	155		19	88	1138	32950		3650
	COPPER	UG/L	291		29	90	689	32267		1550
	CYANIDE	UG/L	337		160	53	596	41783		883
	LEAD	UG/L	7		11		416	7250		1817
	MERCURY	NG/L	333	L	1000		2667	33833		21500
	NICKEL	UG/L	394		266	32	546	30583		3750
	SELENIUM	UG/L	6	L	2	67	5	14		7
	SILVER	UG/L	7		0	100	219	243		119
	THALLIUM	UG/L	1	L	1		3	2	L	10
	ZINC	UG/L	799		90	89	2633	149833		20417
NON-CONV. METALS	ALUMINUM	UG/L	1507		213	86	11238	NOT RUN		NOT RUN
	BARIUM	UG/L	112		15	87	643	NOT RUN		NOT RUN
	BORON	UG/L	571		368	36	839	NOT RUN		NOT RUN
	CALCIUM	MG/L	58		54	7	80	NOT RUN		NOT RUN
	COBALT	UG/L	103		124		87	NOT RUN		NOT RUN
	IRON	UG/L	5043		427	92	30683	NOT RUN		NOT RUN
	MAGNESIUM	MG/L	16		15	6	19	NOT RUN		NOT RUN
	MANGANESE	UG/L	231		163	29	674	NOT RUN		NOT RUN
	MOLYBDENUM	UG/L	57		31	46	103	NOT RUN		NOT RUN
	SODIUM	MG/L	91		88	3	70	NOT RUN		NOT RUN
	TIN	UG/L	79		36	54	187	NOT RUN		NOT RUN
	TITANIUM	UG/L	176		22	88	801	NOT RUN		NOT RUN
	VANADIUM	UG/L	9		7	22	25	NOT RUN		NOT RUN
	YTTRIUM	UG/L	4		4		9	NOT RUN		NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 15

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	OTHER INFLUENT	PRIMARY SLUDGE	COMBINED SLUDGE
CONVENTIONALS	BOD	MG/L	115	10	91	93	25295	25363
	TOTAL SUSP. SOLIDS	MG/L	131	27	79	160	NOT RUN	126667
	COD	MG/L	252	96	62	331	100800	86933
	OIL & GREASE	MG/L	36	4	89	34	5400	4550
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	214	75	65	646	918	1832
	TOTAL SOLIDS	MG/L	455	361	21	511	53410	60028
	TOTAL DISS. SOLIDS	MG/L	228	289		345	NOT RUN	NOT RUN
	SETTLEABLE SOLIDS	ML/L	7	L 1	86	9	1000	1000
	TOTAL VOLATILE SOLIDS	MG/L	152	124	18	209	39378	37111
	VOLATILE DISS. SOLIDS	MG/L	69	24	65	191	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	90	15	83	116	NOT RUN	73333
	AMMONIA NITROGEN	MG/L	11	7	36	12	45	39
	TOC	MG/L	164	64	61	183	10130	8447
VOLATILES	BENZENE	UG/L	2	L 1	50	L 1	13	6
	1,2-DICHLOROETHANE	UG/L	0	L 1		L 1	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	100	3	97	4	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	1	L 1		L 1	20	52
	CHLOROFORM	UG/L	8	1	88	7	N-D	N-D
	1,1-DICHLOROETHYLENE	UG/L	0	L 1		L 1	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	1	L 1		1	N-D	56
	1,2-DICHLOROPROPANE	UG/L	0	L 1		L 1	N-D	N-D
	ETHYLBENZENE	UG/L	2	L 1	50	1	50	62
	METHYLENE CHLORIDE	UG/L	6	2	67	18	21	25
	TRICHLOROFLUOROMETHANE	UG/L	L 1	L 1		2	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	11	2	82	2	394	41
	TOLUENE	UG/L	4	0	100	L 1	467	1080
	TRICHLOROETHYLENE	UG/L	3	L 1	67	2	272	34
ACID EXTRACT	PENTACHLOROPHENOL	UG/L	5	L 5		1	N-D	N-D
	PHENOL	UG/L	3	L 1	67	1	N-D	N-D
BASE-NEUTRALS	HEXACHLOROBENZENE	UG/L	L 9	L 9		L 9	N-D	50
	FLUORANTHENE	UG/L	L 3	L 3		L 3	N-D	88
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	14	10	29	15	5800	5033
	BUTYL BENZYL PHTHALATE	UG/L	2	L 2		2	1600	833
	DI-N-BUTYL PHTHALATE	UG/L	5	2	60	5	270	183
	DIETHYL PHTHALATE	UG/L	4	L 3	25	6	N-D	N-D
	11,12-BENZOFLUORANTHENE	UG/L	L 10	L 10		L 10	N-D	17
	ANTHRACENE	UG/L	L 3	L 3		L 3	N-D	90
	PHENANTHRENE	UG/L	L 3	L 3		L 3	N-D	90
	PYRENE	UG/L	L 3	L 3		L 3	N-D	382
PESTICIDES	DIELDRIN	NG/L	7	L 30		L 300	N-D	N-D
	HEPTACHLOR	NG/L	L 200	10		28	N-D	N-D
	GAMMA-BHC	NG/L	27	40		67	N-D	N-D
	PCB-1242	NG/L	4133	1633	60	9708	N-D	N-D
	PCB-1254	NG/L	L 3600	167		75	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	190	213
	ARSENIC	UG/L	L 50	L 50		L 50	450	1247
	BERYLLIUM	UG/L	L 2	L 2		L 2	L 6	10

POLLUTANTS NOT LISTED WERE NEVER DETECTED.
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 15

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	OTHER INFLUENT	PRIMARY SLUDGE	COMBINED SLUDGE
METALS	CADMIUM	UG/L	1	L 2		L 2	330	585
	CHROMIUM	UG/L	9	L 5	44	23	6300	12450
	COPPER	UG/L	58	24	59	64	21400	35800
	CYANIDE	UG/L	125	471		147	NOT RUN	65200
	LEAD	UG/L	9	L 20		15	15000	14900
	MERCURY	NG/L	483	L 200	59	417	130000	142000
	NICKEL	UG/L	96	14	85	2	750	5350
	SELENIUM	UG/L	L 50	L 50		L 50	340	291
	SILVER	UG/L	11	L 2	82	11	140	50
	ZINC	UG/L	145	36	75	343	114000	130667
NON-CONV. METALS	ALUMINUM	UG/L	569	120	79	615	NOT RUN	NOT RUN
	BARIUM	UG/L	104	32	69	50	NOT RUN	NOT RUN
	CALCIUM	MG/L	47	51		45	NOT RUN	NOT RUN
	IRON	UG/L	732	231	68	619	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	6	7		7	NOT RUN	NOT RUN
	MANGANESE	UG/L	87	48	45	90	NOT RUN	NOT RUN
	SODIUM	MG/L	39	36	8	46	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 16

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	OTHER EFFLUENT	COMBINED SLUDGE	OTHER SLUDGE
CONVENTIONALS	BOD	MG/L	226	11	95	11	15881	21041
	TOTAL SUSP. SOLIDS	MG/L	212	16	92	4	30330	33585
	COD	MG/L	577	121	79	63	50400	84800
	OIL & GREASE	MG/L	39	6	85	12	3600	4933
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	360	208	42	130	1447	1705
	TOTAL SOLIDS	MG/L	731	470	36	424	31591	44287
	TOTAL DISS. SOLIDS	MG/L	499	450	10	445	NOT RUN	NOT RUN
	SETTLEABLE SOLIDS	ML/L	11	L 1	91	L 1	983	997
	TOTAL VOLATILE SOLIDS	MG/L	291	63	78	109	24479	34381
	VOLATILE DISS. SOLIDS	MG/L	53	48	9	50	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	161	10	94	3	23000	27750
	AMMONIA NITROGEN	MG/L	15	9	40	9	120	63
	TOC	MG/L	96	21	78	19	2771	3833
VOLATILES	BENZENE	UG/L	1	L 1		L 1	4	14
	CARBON TETRACHLORIDE	UG/L	81	28	65	1	N-D	N-D
	CHLOROBENZENE	UG/L	L 1	0		0	3	7
	1,2-DICHLOROETHANE	UG/L	0	L 1		L 1	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	27	0	100	1	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	0	L 1		L 1	35	598
	1,1,2-TRICHLOROETHANE	UG/L	0	L 1		0	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 10	0		0	N-D	N-D
	CHLOROFORM	UG/L	39	30	23	7	1	4
	1,2-TRANS-DICHLOROETHYLENE	UG/L	2	L 1	50	L 1	305	733
	1,2-DICHLOROPROPANE	UG/L	L 1	L 1		L 1	1	4
	ETHYLBENZENE	UG/L	15	1	93	0	77	412
	METHYLENE CHLORIDE	UG/L	50	5	90	5	77	111
	METHYL BROMIDE	UG/L	1	L 20		L 20	N-D	N-D
	DICHLOROBROMOMETHANE	UG/L	0	0		L 1	N-D	N-D
	TRICHLOROFLUOROMETHANE	UG/L	1	L 1		L 1	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	66	2	97	1	12	241
	TOLUENE	UG/L	54	1	98	0	117	418
	TRICHLOROETHYLENE	UG/L	45	2	96	1	240	1927
	VINYL CHLORIDE	UG/L	2	L 20		L 20	N-D	N-D
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	UG/L	0	L 2		L 2	N-D	N-D
	2,4-DICHLOROPHENOL	UG/L	1	L 2		L 2	N-D	N-D
	2,4-DIMETHYLPHENOL	UG/L	2	0	100	L 2	N-D	N-D
	PENTACHLOROPHENOL	UG/L	6	1	83	4	N-D	N-D
	PHENOL	UG/L	45	1	98	L 1	N-D	92
BASE-NEUTRALS	1,2-DICHLOROBENZENE	UG/L	28	2	93	2	N-D	N-D
	1,3-DICHLOROBENZENE	UG/L	3	L 3		L 3	150	N-D
	1,4-DICHLOROBENZENE	UG/L	9	L 3	67	L 3	1217	3727
	FLUORANTHENE	UG/L	L 3	L 3		L 3	48	203
	NAPHTHALENE	UG/L	10	L 2	80	L 2	238	3100
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	31	7	77	4	2317	3150
	BUTYL BENZYL PHTHALATE	UG/L	3	L 2	33	L 2	355	577
	DI-N-BUTYL PHTHALATE	UG/L	4	2	50	0	163	775
	DIETHYL PHTHALATE	UG/L	5	1	80	L 3	N-D	N-D
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	15	85
	BENZO (A)PYRENE	UG/L	L 20	L 20		L 20	N-D	82

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 16

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	OTHER EFFLUENT	COMBINED SLUDGE	OTHER SLUDGE
BASE-NEUTRALS	CHRYSENE	UG/L	L 5	L 5		L 5	15	85
	ANTHRACENE	UG/L	L 3	L 3		L 3	161	283
	PHENANTHRENE	UG/L	L 3	L 3		L 3	161	283
	PYRENE	UG/L	L 3	L 30		L 3	49	89
PESTICIDES	4,4'-DDD	NG/L	L 600	L 600		38	N-D	N-D
	ALPHA-BHC	NG/L	89	292		73	N-D	N-D
	GAMMA-BHC	NG/L	82	245		145	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	338	240
	ARSENIC	UG/L	20	12	40	L 50	868	218
	BERYLLIUM	UG/L	L 2	L 2		L 2	13	10
	CADMIUM	UG/L	9	2	78	L 2	560	2627
	CHROMIUM	UG/L	100	35	65	20	4900	19883
	COPPER	UG/L	142	26	82	5	10850	22533
	CYANIDE	UG/L	289	447		143	20455	36417
	LEAD	UG/L	135	20	85	6	10600	27490
	MERCURY	NG/L	817	183	78	200	35167	75667
	NICKEL	UG/L	80	57	29	54	2705	5307
	SELENIUM	UG/L	L 50	L 50		L 50	144	28162
	SILVER	UG/L	20	5	75	L 2	147	1373
	ZINC	UG/L	242	56	77	31	19500	43667
NON-CONV. METALS	ALUMINUM	UG/L	1250	210	83	16	NOT RUN	NOT RUN
	BARIUM	UG/L	156	23	85	11	NOT RUN	NOT RUN
	CALCIUM	MG/L	33	31	6	30	NOT RUN	NOT RUN
	IRON	UG/L	1370	312	77	110	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	4	4		4	NOT RUN	NOT RUN
	MANGANESE	UG/L	50	34	32	32	NOT RUN	NOT RUN
	SODIUM	MG/L	84	82	2	82	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 17

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	OTHER EFFLUENT	PRIMARY SLUDGE	COMBINED SLUDGE	SECONDARY SLUDGE
CONV.	BOD	MG/L	194	13	93	9	1695	45536	2819
	TOTAL SUSP. SOLIDS	MG/L	129	9	93	8	1603	NOT RUN	3661
	COD	MG/L	778	127	84	170	3320	64067	5687
	OIL & GREASE	MG/L	35	21	40	16	152	6817	488
NON-CONV.	TOTAL PHENOLS	UG/L	238	129	46	99	428	2163	911
	TOTAL SOLIDS	MG/L	629	441	30	425	2328	55264	3996
	TOTAL DISS. SOLIDS	MG/L	462	444	4	419	NOT RUN	NOT RUN	NOT RUN
	SETTLEABLE SOLIDS	ML/L	25	L 1	96	L 1	97	1000	913
	TOTAL VOLATILE SOLIDS	MG/L	237	88	63	74	1619	42101	2974
	VOLATILE DISS. SOLIDS	MG/L	109	80	27	63	NOT RUN	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	95	6	94	7	1321	8475	2800
	AMMONIA NITROGEN	MG/L	38	18	53	21	26	108	24
	TOC	MG/L	95	28	71	25	283	4270	1179
VOLATILES	BENZENE	UG/L	1	L 1		L 1	1	7	0
	CARBON TETRACHLORIDE	UG/L	L 1	L 1		L 1	1	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	54	0	100	5	4	73	N-D
	1,1-DICHLOROETHANE	UG/L	1	L 1		L 1	14	65	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 1	L 1		L 1	N-D	32	N-D
	CHLOROFORM	UG/L	2	3		1	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	3	L 1	67	L 1	97	1620	51
	1,2-DICHLOROPROPANE	UG/L	L 1	L 1		L 1	N-D	79	N-D
	ETHYLBENZENE	UG/L	31	L 1	97	3	15	307	21
	METHYLENE CHLORIDE	UG/L	22	6	73	16	50	479	1
	METHYL CHLORIDE	UG/L	L 25	L 25		L 25	17	N-D	N-D
	DICHLORODIFLUOROMETHANE	UG/L	L 20	L 20		L 20	3	47	5
	TETRACHLOROETHYLENE	UG/L	124	4	97	22	1	14	N-D
	TOLUENE	UG/L	72	2	97	8	40	517	833
	TRICHLOROETHYLENE	UG/L	12	L 1	92	1	15	20	2
ACIDS	PENTACHLOROPHENOL	UG/L	29	18	38	19	N-D	177	N-D
	PHENOL	UG/L	16	1	94	1	185	63	580
BASE-NEUT.	FLUORANTHENE	UG/L	L 3	L 3		L 3	N-D	169	N-D
	NAPHTHALENE	UG/L	3	L 2	33	L 2	N-D	707	112
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	24	9	63	5	461	5956	1395
	BUTYL BENZYL PHTHALATE	UG/L	3	L 2	33	L 2	27	910	N-D
	DI-N-BUTYL PHTHALATE	UG/L	2	3		3	N-D	239	7
	DIETHYL PHTHALATE	UG/L	4	L 3	25	L 3	N-D	N-D	N-D
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	N-D	111	N-D
	CHRYSENE	UG/L	L 5	L 5		L 5	N-D	111	N-D
	ANTHRACENE	UG/L	L 3	L 3		L 3	31	460	N-D
	PHENANTHRENE	UG/L	L 3	L 3		L 3	31	460	N-D
	PYRENE	UG/L	L 3	L 3		L 3	N-D	165	N-D
PESTICIDES	HEPTACHLOR	NG/L	28	L 100		L 200	N-D	N-D	N-D
	ALPHA-BHC	NG/L	10	L 50		28	N-D	N-D	N-D
	BETA-BHC	NG/L	L 400	20		12	N-D	N-D	N-D
	GAMMA-BHC	NG/L	22	L 210		L 120	N-D	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	L 50	158	L 50
	ARSENIC	UG/L	L 50	L 50		L 50	16	282	16

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 17

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	OTHER EFFLUENT	PRIMARY SLUDGE	COMBINED SLUDGE	SECONDARY SLUDGE
METALS	CADMIUM	UG/L	27	4	85	L 2	78	1362	357
	CHROMIUM	UG/L	108	34	69	34	177	5717	810
	COPPER	UG/L	185	35	81	12	598	16100	1663
	CYANIDE	UG/L	277	133	52	54	537	67517	960
	LEAD	UG/L	81	11	86	L 20	592	12300	1187
	MERCURY	NG/L	350	L 200	43	L 200	19167	47000	24167
	NICKEL	UG/L	34	22	35	44	104	1592	284
	SELENIUM	UG/L	L 50	L 50		L 50	L 100	188	L 100
	SILVER	UG/L	20	2	90	L 2	85	2900	277
	ZINC	UG/L	272	51	81	30	1163	31233	3317
N-C METALS	ALUMINUM	UG/L	958	116	88	78	NOT RUN	NOT RUN	NOT RUN
	BARIUM	UG/L	110	39	65	47	NOT RUN	NOT RUN	NOT RUN
	CALCIUM	MG/L	55	50	9	52	NOT RUN	NOT RUN	NOT RUN
	IRON	UG/L	1103	216	80	181	NOT RUN	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	9	9		9	NOT RUN	NOT RUN	NOT RUN
	MANGANESE	UG/L	130	104	20	107	NOT RUN	NOT RUN	NOT RUN
	SODIUM	MG/L	53	54		54	NOT RUN	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 18

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	208	37	82	25243	8554
	TOTAL SUSP. SOLIDS	MG/L	268	21	92	NOT RUN	11334
	COD	MG/L	717	82	89	97333	17547
	OIL & GREASE	MG/L	46	17	63	9100	853
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	751	83	89	2871	198
	TOTAL SOLIDS	MG/L	478	279	42	84607	11039
	TOTAL DISS. SOLIDS	MG/L	216	239		NOT RUN	NOT RUN
	SETTLEABLE SOLIDS	ML/L	11	L 1	91	997	994
	TOTAL VOLATILE SOLIDS	MG/L	198	42	79	44464	7511
	VOLATILE DISS. SOLIDS	MG/L	102	57	44	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	152	15	90	NOT RUN	7000
	AMMONIA NITROGEN	MG/L	10	7	30	67	10
	TOC	MG/L	162	36	78	862	389
VOLATILES	BENZENE	UG/L	9	L 1	89	44	1
	1,2-DICHLOROETHANE	UG/L	0	L 1		N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	63	9	86	175	N-D
	1,1-DICHLOROETHANE	UG/L	2	L 1	50	15	4
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 1	L 1		277	12
	CHLOROFORM	UG/L	2	0	100	19	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	L 1	L 1		227	4
	ETHYLBENZENE	UG/L	12	L 1	92	832	6
	METHYLENE CHLORIDE	UG/L	50	13	74	44	2
	TRICHLOROFLUOROMETHANE	UG/L	0	L 1		44	N-D
	TETRACHLOROETHYLENE	UG/L	9	4	56	N-D	N-D
	TOLUENE	UG/L	34	L 1	97	398	31
	TRICHLOROETHYLENE	UG/L	23	3	87	245	3
ACID EXTRACT	2-CHLOROPHENOL	UG/L	0	L 1		20	N-D
	2,4-DICHLOROPHENOL	UG/L	2	1	50	144	N-D
	2,4-DIMETHYLPHENOL	UG/L	0	L 2		N-D	N-D
	PENTACHLOROPHENOL	UG/L	1	L 5		N-D	N-D
	PHENOL	UG/L	20	0	100	113	223
BASE-NEUTRALS	NAPHTHALENE	UG/L	2	L 2		331	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	70	48	31	4225	8072
	BUTYL BENZYL PHTHALATE	UG/L	4	L 2	50	1231	44
	DI-N-BUTYL PHTHALATE	UG/L	4	2	50	357	77
	DI-N-OCTYL PHTHALATE	UG/L	38	2	95	94	311
	DIETHYL PHTHALATE	UG/L	L 3	L 3		N-D	131
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		137	N-D
	CHRYSENE	UG/L	L 5	L 5		137	N-D
	ANTHRACENE	UG/L	L 3	L 3		1123	N-D
	FLUORENE	UG/L	L 3	L 3		214	N-D
	PHENANTHRENE	UG/L	L 3	L 3		1123	N-D
	PYRENE	UG/L	L 3	L 3		109	N-D
PESTICIDES	CHLORDANE	NG/L	L 2000	33		N-D	N-D
	ALPHA-BHC	NG/L	25	52		N-D	N-D
	GAMMA-BHC	NG/L	72	63	13	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		223	50

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 18

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	ARSENIC	UG/L	L 50	L 50		350	57
	CADMIUM	UG/L	2	L 2		347	143
	CHROMIUM	UG/L	51	11	78	3550	563
	COPPER	UG/L	117	6	95	14733	3283
	CYANIDE	UG/L	169	113	33	25250	5233
	LEAD	UG/L	136	23	83	25500	5200
	MERCURY	NG/L	517	200	61	203333	4833
	NICKEL	UG/L	24	14	42	1348	132
	SELENIUM	UG/L	L 50	L 50		123	L 100
	SILVER	UG/L	15	3	80	1078	558
	ZINC	UG/L	330	75	77	32333	5783
NON-CONV. METALS	ALUMINUM	UG/L	4910	417	92	NOT RUN	NOT RUN
	BARIUM	UG/L	111	17	85	NOT RUN	NOT RUN
	CALCIUM	MG/L	16	13	19	NOT RUN	NOT RUN
	IRON	UG/L	4103	366	91	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	4	3	25	NOT RUN	NOT RUN
	MANGANESE	UG/L	162	93	43	NOT RUN	NOT RUN
	SODIUM	MG/L	45	49		NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 19

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	OTHER EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONV.	BOD	MG/L	379	45	88	325	37	19693	8989
	TOTAL SUSP. SOLIDS	MG/L	187	29	84	132	22	60500	16500
	COD	MG/L	723	146	80	698	141	94400	21734
	OIL & GREASE	MG/L	112	16	86	37	15	7920	512
NON-CONV.	TOTAL PHENOLS	UG/L	2138	307	86	1813	290	3130	897
	TOTAL SOLIDS	MG/L	1061	756	29	1007	762	58303	18044
	TOTAL DISS. SOLIDS	MG/L	745	674	10	671	722	NOT RUN	NOT RUN
	SETTLEABLE SOLIDS	ML/L	8	L 1	88	1	L 1	1000	984
	TOTAL VOLATILE SOLIDS	MG/L	380	120	68	336	128	40131	13354
	VOLATILE DISS. SOLIDS	MG/L	95	82	14	79	109	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	134	21	84	77	13	23900	12400
	AMMONIA NITROGEN	MG/L	34	25	26	28	19	97	52
	TOC	MG/L	211	73	65	187	67	981	675
VOLATILES	BENZENE	UG/L	4	L 1	75	3	L 1	15	2
	CHLOROBENZENE	UG/L	3	L 1	67	2	L 1	N-D	N-D
	1,2-DICHLOROETHANE	UG/L	1	1		1	1	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	49	31	37	31	30	115	67
	1,1-DICHLOROETHANE	UG/L	0	1		1	0	10	19
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 1	L 1		0	L 1	657	1
	CHLOROFORM	UG/L	18	14	22	14	16	29	19
	1,2-TRANS-DICHLOROETHYLENE	UG/L	5	L 1	80	2	L 1	7	341
	1,2-DICHLOROPROPANE	UG/L	2	1	50	1	1	N-D	N-D
	ETHYLBENZENE	UG/L	21	3	86	20	4	336	14
	METHYLENE CHLORIDE	UG/L	93	61	34	66	68	32	29
	METHYL CHLORIDE	UG/L	32	375		574	340	N-D	N-D
	METHYL BROMIDE	UG/L	L 20	42		110	38	N-D	N-D
	TRICHLOROFLUOROMETHANE	UG/L	0	L 1		0	L 1	N-D	N-D
	DICHLORODIFLUOROMETHANE	UG/L	167	L 20	88	130	L 20	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	15	18		22	18	N-D	N-D
	TOLUENE	UG/L	60	2	97	61	3	980	32
	TRICHLOROETHYLENE	UG/L	32	17	47	25	18	376	28
	VINYL CHLORIDE	UG/L	19	L 20		72	L 20	N-D	N-D
ACIDS	2,4,6-TRICHLOROPHENOL	UG/L	L 2	L 2		0	L 2	5	N-D
	2-CHLOROPHENOL	UG/L	2	L 1	50	3	L 1	28	N-D
	2,4-DICHLOROPHENOL	UG/L	L 2	1		0	1	12	N-D
	2,4-DIMETHYLPHENOL	UG/L	2	3		1	1	N-D	N-D
	PENTACHLOROPHENOL	UG/L	L 5	L 5		L 5	L 5	20	N-D
	PHENOL	UG/L	130	0	100	57	0	501	118
BASE-NEUT.	1,2,4-TRICHLOROBENZENE	UG/L	L 5	L 5		L 5	L 5	479	64
	1,2-DICHLOROBENZENE	UG/L	7	3	57	6	5	911	112
	1,3-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	L 5	300	41
	1,4-DICHLOROBENZENE	UG/L	2	1	50	1	2	519	70
	FLUORANTHENE	UG/L	L 4	L 4		L 4	L 4	114	32
	NAPHTHALENE	UG/L	3	L 3		4	L 3	471	2
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	33	20	39	38	20	5038	1914
	BUTYL BENZYL PHTHALATE	UG/L	19	L 3	84	12	L 3	3428	N-D
	DI-N-BUTYL PHTHALATE	UG/L	1	L 4		L 4	L 4	377	21
	DI-N-OCTYL PHTHALATE	UG/L	L 5	L 5		2	L 5	19	6
	DIETHYL PHTHALATE	UG/L	3	L 5		3	L 5	N-D	N-D

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 19

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	OTHER EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
BASE-NEUT.	ANTHRACENE	UG/L	L 5	L 5		L 5	L 5	229	N-D
	PHENANTHRENE	UG/L	L 5	L 5		L 5	L 5	229	N-D
	PYRENE	UG/L	L 4	L 4		L 4	L 4	32	11
PESTICIDES	4,4'-DDE	NG/L	L 200	L 200		L 200	L 200	N-D	1667
	4,4'-DDD	NG/L	128	L 300		L 300	L 300	N-D	N-D
	HEPTACHLOR	NG/L	35	L 100		L 100	L 100	N-D	N-D
	GAMMA-BHC	NG/L	105	28	73	120	57	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	L 50	150	82
	ARSENIC	UG/L	L 50	L 50		L 50	L 50	265	131
	CADMIUM	UG/L	10	L 2	80	8	L 2	917	2727
	CHROMIUM	UG/L	107	23	79	83	26	5350	1343
	COPPER	UG/L	98	15	85	84	16	12383	2917
	CYANIDE	UG/L	714	247	65	509	337	188000	33917
	LEAD	UG/L	47	L 50		10	L 50	12383	3450
	MERCURY	NG/L	600	100	83	683	83	219000	79167
	NICKEL	UG/L	54	45	17	58	44	2042	348
	SELENIUM	UG/L	L 50	25		L 50	L 50	147	17
	SILVER	UG/L	10	L 5	50	10	L 5	850	315
	ZINC	UG/L	224	43	81	249	38	26383	10817
N-C METALS	ALUMINUM	UG/L	3554	325	91	2988	337	NOT RUN	NOT RUN
	BARIUM	UG/L	120	18	85	103	18	NOT RUN	NOT RUN
	CALCIUM	MG/L	28	25	11	27	25	NOT RUN	NOT RUN
	IRON	UG/L	2035	658	68	2257	843	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	16	16		16	16	NOT RUN	NOT RUN
	MANGANESE	UG/L	143	109	24	125	111	NOT RUN	NOT RUN
	SODIUM	MG/L	150	149	1	148	152	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 20

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	TERTIARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE	NITRIFICATION SLUDGE
CONV.	BOD	MG/L	247	21	91	8	15833	7543	8350
	TOTAL SUSP. SOLIDS	MG/L	421	13	97	5	50500	NOT RUN	NOT RUN
	COD	MG/L	750	41	95	40	41067	9813	9960
	OIL & GREASE	MG/L	32	12	63	8	5337	1823	270
NON-CONV.	TOTAL PHENOLS	UG/L	566	364	36	134	720	418	393
	TOTAL SOLIDS	MG/L	1183	757	36	812	58947	8827	8499
	TOTAL DISS. SOLIDS	MG/L	798	741	7	794	NOT RUN	NOT RUN	NOT RUN
	SETTLEABLE SOLIDS	ML/L	26	L 1	96	L 1	998	983	870
	TOTAL VOLATILE SOLIDS	MG/L	415	100	76	119	35750	6011	6089
	VOLATILE DISS. SOLIDS	MG/L	88	92		101	NOT RUN	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	256	7	97	2	30000	6333	NOT RUN
	AMMONIA NITROGEN	MG/L	18	13	28	1	70	27	8
	TOC	MG/L	98	16	84	14	1304	583	335
VOLATILES	BENZENE	UG/L	2	L 1	50	L 1	11	N-D	N-D
	CARBON TETRACHLORIDE	UG/L	1	L 1		L 1	N-D	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	32	1	97	L 1	N-D	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	3	L 1	67	L 1	N-D	N-D	N-D
	CHLOROFORM	UG/L	5	2	60	24	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	2	L 1	50	L 1	507	N-D	N-D
	ETHYLBENZENE	UG/L	5	L 1	80	L 1	61	N-D	N-D
	METHYLENE CHLORIDE	UG/L	51	14	73	2	N-D	N-D	N-D
	METHYL CHLORIDE	UG/L	5	L 25		L 25	N-D	N-D	N-D
	METHYL BROMIDE	UG/L	37	L 20	46	L 20	N-D	N-D	N-D
	BROMOFORM	UG/L	L 1	L 1		2	N-D	N-D	N-D
	DICHLOROBROMOMETHANE	UG/L	L 1	1		19	N-D	N-D	N-D
	DICHLORODIFLUOROMETHANE	UG/L	40	19	52	17	N-D	N-D	N-D
	CHLORODIBROMOMETHANE	UG/L	0	1		14	N-D	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	15	1	93	L 1	N-D	N-D	N-D
	TOLUENE	UG/L	23	L 1	96	L 1	197	53	125
	TRICHLOROETHYLENE	UG/L	31	0	100	L 1	309	N-D	N-D
	VINYL CHLORIDE	UG/L	13	L 20		L 20	N-D	N-D	N-D
ACIDS	2,4,6-TRICHLOROPHENOL	UG/L	1	1		L 1	N-D	N-D	N-D
	2,4-DICHLOROPHENOL	UG/L	0	0		L 1	N-D	N-D	N-D
	2,4-DIMETHYLPHENOL	UG/L	0	L 1		L 1	N-D	N-D	N-D
	PHENOL	UG/L	9	0	100	L 1	53	60	23
BASE-NEUT.	1,2,4-TRICHLOROBENZENE	UG/L	14	L 5	64	L 5	308	7	N-D
	1,2-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	88	N-D	N-D
	FLUORANTHENE	UG/L	L 4	L 4		L 4	10	N-D	365
	ISOPHORONE	UG/L	6	L 10		L 10	N-D	N-D	N-D
	NAPHTHALENE	UG/L	L 3	L 3		L 3	N-D	N-D	170
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	24	6	75	9	2357	671	425
	BUTYL BENZYL PHTHALATE	UG/L	8	L 3	63	L 3	827	N-D	N-D
	DI-N-BUTYL PHTHALATE	UG/L	3	L 4		L 4	200	N-D	N-D
	DIETHYL PHTHALATE	UG/L	3	L 5		L 5	12	8	54
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	N-D	N-D	70
	11,12-BENZOFLUORANTHENE	UG/L	L 5	L 5		L 5	N-D	N-D	20
	CHRYSENE	UG/L	L 5	L 5		L 5	N-D	N-D	70
	ACENAPHTHYLENE	UG/L	L 10	L 10		L 10	N-D	N-D	305
	ANTHRACENE	UG/L	L 5	L 5		L 5	37	3	700

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 20

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	TERTIARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE	NITRIFICATION SLUDGE
BASE-NEUT.	1,12-BENZOPERYLENE	UG/L	L 25	L 25		L 25	N-D	N-D	65
	FLUORENE	UG/L	L 5	L 15		L 5	N-D	N-D	250
	PHENANTHRENE	UG/L	L 5	L 5		L 5	37	3	700
	PYRENE	UG/L	L 4	L 4		L 4	10	N-D	310
PESTICIDES	4,4'-DDD	NG/L	52	L 300		L 600	N-D	N-D	N-D
	HEPTACHLOR EPOXIDE	NG/L	38	L 100		L 200	N-D	N-D	N-D
	ALPHA-BHC	NG/L	L 50	L 50		22	N-D	N-D	N-D
	GAMMA-BHC	NG/L	173	72	58	125	N-D	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	186	10	L 50
	ARSENIC	UG/L	9	L 50		L 50	258	78	115
	CADMIUM	UG/L	L 2	L 2		L 2	86	46	16
	CHROMIUM	UG/L	39	1	97	L 5	3433	998	1010
	COPPER	UG/L	185	9	95	10	14433	3500	2450
	CYANIDE	UG/L	243	87	64	1565	38050	2917	1650
	LEAD	UG/L	26	L 50		L 50	6467	1420	1600
	MERCURY	NG/L	767	L 200	74	L 200	127852	24167	19500
	NICKEL	UG/L	63	21	67	14	3200	832	775
	SELENIUM	UG/L	L 50	L 50		L 50	134	L 100	L 100
	SILVER	UG/L	7	L 5	29	L 5	773	247	185
	ZINC	UG/L	370	36	90	38	27617	8750	5950
N-C METALS	ALUMINUM	UG/L	2740	91	97	31	NOT RUN	NOT RUN	NOT RUN
	BARIUM	UG/L	125	44	65	39	NOT RUN	NOT RUN	NOT RUN
	CALCIUM	MG/L	48	43	10	43	NOT RUN	NOT RUN	NOT RUN
	IRON	UG/L	2925	98	97	19	NOT RUN	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	26	24	8	24	NOT RUN	NOT RUN	NOT RUN
	MANGANESE	UG/L	81	60	26	4	NOT RUN	NOT RUN	NOT RUN
	SODIUM	MG/L	132	135		139	NOT RUN	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 21

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	TERTIARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	238	59	75	23	15789	10209
	TOTAL SUSP. SOLIDS	MG/L	260	29	89	29	27584	6125
	COD	MG/L	900	135	85	93	50400	18867
	OIL & GREASE	MG/L	31	13	58	11	5583	460
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	493	103	79	37	491	197
	TOTAL SOLIDS	MG/L	981	710	28	665	36793	17531
	TOTAL DISS. SOLIDS	MG/L	685	655	4	582	NOT RUN	NOT RUN
	SETTLEABLE SOLIDS	ML/L	24	L 1	96	L 1	1000	802
	TOTAL VOLATILE SOLIDS	MG/L	344	124	64	100	27160	11143
	VOLATILE DISS. SOLIDS	MG/L	53	78		64	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	190	17	91	17	27056	2250
	AMMONIA NITROGEN	MG/L	17	9	47	4	37	65
	TOC	MG/L	126	37	71	29	934	608
VOLATILES	BENZENE	UG/L	L 1	L 1		L 1	7	0
	CHLOROBENZENE	UG/L	L 1	L 1		L 1	10	N-D
	1,2-DICHLOROETHANE	UG/L	1	L 1		L 1	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	17	0	100	L 1	N-D	N-D
	1,1,2-TRICHLOROETHANE	UG/L	L 1	L 1		L 1	43	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 1	L 1		L 1	96	N-D
	CHLOROFORM	UG/L	9	2	78	3	53	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	2	L 1	50	L 1	84	N-D
	1,2-DICHLOROPROPANE	UG/L	L 1	L 1		L 1	2	4
	ETHYLBENZENE	UG/L	2	L 1	50	1	44	N-D
	METHYLENE CHLORIDE	UG/L	53	18	66	2	901	98
	METHYL CHLORIDE	UG/L	63	L 25	60	L 25	N-D	N-D
	DICHLOROBROMOMETHANE	UG/L	L 1	L 1		2	N-D	N-D
	DICHLORODIFLUOROMETHANE	UG/L	L 20	L 20		L 20	113	14
	TETRACHLOROETHYLENE	UG/L	15	2	87	L 1	67	5
	TOLUENE	UG/L	61	2	97	L 1	438	124
	TRICHLOROETHYLENE	UG/L	6	L 1	83	L 1	133	1
ACID EXTRACT	2,4-DICHLOROPHENOL	UG/L	1	L 5		L 1	N-D	N-D
	2,4-DIMETHYLPHENOL	UG/L	2	L 1	50	L 1	N-D	N-D
	PENTACHLOROPHENOL	UG/L	343	220	36	16	4250	1168
	PHENOL	UG/L	55	1	98	1	N-D	N-D
BASE-NEUTRALS	ACENAPHTHENE	UG/L	L 10	L 10		L 10	307	26
	1,2-DICHLOROBENZENE	UG/L	7	L 5	29	L 5	117	N-D
	1,4-DICHLOROBENZENE	UG/L	3	L 5		L 5	N-D	N-D
	FLUORANTHENE	UG/L	L 4	L 4		L 4	323	83
	NAPHTHALENE	UG/L	27	1	96	L 3	1152	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	27	18	33	9	2700	4083
	BUTYL BENZYL PHTHALATE	UG/L	8	L 3	63	1	1490	300
	DI-N-BUTYL PHTHALATE	UG/L	5	4	20	3	401	31
	DI-N-OCTYL PHTHALATE	UG/L	L 5	1		L 5	N-D	N-D
	DIETHYL PHTHALATE	UG/L	13	L 5	62	L 5	N-D	N-D
	CHRYSENE	UG/L	L 5	L 5		L 5	86	24
	ACENAPHTHYLENE	UG/L	L 10	L 10		L 10	53	N-D
	FLUORENE	UG/L	L 5	L 5		L 5	55	N-D
	PHENANTHRENE	UG/L	L 5	L 5		L 5	513	27
	PYRENE	UG/L	L 4	L 4		L 4	307	207

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 21

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	TERTIARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
PESTICIDES	ALPHA-BHC	NG/L	20	197		22	N-D	N-D
	BETA-BHC	NG/L	2	L 20		L 20	N-D	N-D
	GAMMA-BHC	NG/L	45	40	11	28	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	27	13
	ARSENIC	UG/L	10	9	10	L 50	300	360
	BERYLLIUM	UG/L	L 2	L 2		L 2	13	9
	CADMIUM	UG/L	L 2	L 2		L 2	113	131
	CHROMIUM	UG/L	46	15	67	1	1867	3067
	COPPER	UG/L	336	150	55	18	8500	12817
	CYANIDE	UG/L	214	157	27	49	36917	7583
	LEAD	UG/L	38	L 50		L 50	4700	5033
	MERCURY	NG/L	683	233	66	33	135833	65333
	NICKEL	UG/L	62	40	35	28	353	773
	SELENIUM	UG/L	L 50	L 50		L 50	23	14
	SILVER	UG/L	L 5	L 5		L 5	250	248
	ZINC	UG/L	226	78	65	9	6850	8167
NON-CONV. METALS	ALUMINUM	UG/L	1480	352	76	396	NOT RUN	NOT RUN
	BARIUM	UG/L	187	79	58	30	NOT RUN	NOT RUN
	CALCIUM	MG/L	37	34	8	36	NOT RUN	NOT RUN
	IRON	UG/L	1693	527	69	559	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	14	14		15	NOT RUN	NOT RUN
	MANGANESE	UG/L	272	172	37	192	NOT RUN	NOT RUN
	SODIUM	MG/L	125	123	2	112	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 22

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM.		TERTIARY EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	MG/L		245		39	84		19	17516
	TOTAL SUSP. SOLIDS	MG/L		159		22	86		14	37500
	COD	MG/L		521		148	72		131	62400
	OIL & GREASE	MG/L		35		10	71		8	4650
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L		226		348			126	476
	TOTAL SOLIDS	MG/L		570		366	36		362	47524
	TOTAL DISS. SOLIDS	MG/L		227		266			274	8750
	SETTLEABLE SOLIDS	ML/L		9	L	1	89	L	1	997
	TOTAL VOLATILE SOLIDS	MG/L		226		73	68		70	28631
	VOLATILE DISS. SOLIDS	MG/L		78		65	17		55	3250
	TOTAL VOL. SUS. SOLIDS	MG/L		77		12	84		8	18200
	AMMONIA NITROGEN	MG/L		19		18	5		16	164
	TOC	MG/L		61		49	20		32	5037
VOLATILES	BENZENE	UG/L	L	1	L	1		L	1	87
	CHLOROBENZENE	UG/L		0	L	1		L	1	N-D
	1,1,1-TRICHLOROETHANE	UG/L		11	L	1	91	L	1	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L		7		0	100		0	N-D
	CHLOROETHANE	UG/L	L	25	L	25		L	25	125
	CHLOROFORM	UG/L		5		1	80		1	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L		16		1	94		0	3542
	ETHYLBENZENE	UG/L		8		0	100		1	135
	METHYLENE CHLORIDE	UG/L		18		6	67		7	N-D
	DICHLOROBROMOMETHANE	UG/L		0	L	1		L	1	N-D
	TETRACHLOROETHYLENE	UG/L		582		15	97		11	N-D
	TOLUENE	UG/L		56	L	1	98		0	800
	TRICHLOROETHYLENE	UG/L		43		10	77		1	N-D
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	UG/L		0		0			0	N-D
	2-CHLOROPHENOL	UG/L		0		0		L	1	N-D
	2,4-DICHLOROPHENOL	UG/L		0		0		L	1	N-D
	2,4-DIMETHYLPHENOL	UG/L		1		0	100	L	1	N-D
	PENTACHLOROPHENOL	UG/L		3		3			4	N-D
	PHENOL	UG/L		12		7	42		1	105
BASE-NEUTRALS	ACENAPHTHENE	UG/L	L	10	L	10		L	10	83
	1,2,4-TRICHLOROBENZENE	UG/L		4		3	25	L	5	917
	1,2-DICHLOROBENZENE	UG/L	L	5		4		L	5	N-D
	1,3-DICHLOROBENZENE	UG/L	L	5	L	5		L	5	33
	1,4-DICHLOROBENZENE	UG/L	L	5	L	5		L	5	63
	FLUORANTHENE	UG/L	L	4	L	4		L	4	168
	ISOPHORONE	UG/L	L	10	L	10			5	N-D
	NAPHTHALENE	UG/L		14	L	3	79	L	3	488
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L		210		63	70		32	26850
	BUTYL BENZYL PHTHALATE	UG/L		14		7	50		1	1492
	DI-N-BUTYL PHTHALATE	UG/L		6		12			5	683
	DI-N-OCTYL PHTHALATE	UG/L		9		1	89		1	N-D
	1,2-BENZANTHRACENE	UG/L	L	5		2		L	5	N-D
	CHRYSENE	UG/L	L	5		2		L	5	N-D
	ANTHRACENE	UG/L	L	5	L	5		L	5	51
	PHENANTHRENE	UG/L	L	5	L	5		L	5	51
	PYRENE	UG/L	L	4	L	4		L	4	120

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 22

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM.		TERTIARY EFFLUENT	COMBINED SLUDGE
PESTICIDES	4,4'-DDD	NG/L	L	300		10		L	120	N-D
	HEPTACHLOR EPOXIDE	NG/L	L	100	L	40			52	N-D
	GAMMA-BHC	NG/L		48		52			185	N-D
METALS	ANTIMONY	UG/L	L	50	L	50		L	50	737
	ARSENIC	UG/L	L	50	L	50		L	50	53
	BERYLLIUM	UG/L	L	2	L	2		L	2	24
	CADMIUM	UG/L		4	L	2	50	L	2	150
	CHROMIUM	UG/L		460		111	76		99	9550
	COPPER	UG/L		378		76	80		57	2418
	CYANIDE	UG/L		141		90	36		3550	25150
	LEAD	UG/L		281		54	81		64	77333
	MERCURY	NG/L		117	L	200		L	200	60667
	NICKEL	UG/L		300		207	31		183	1978
	SELENIUM	UG/L	L	50	L	50		L	50	9
	SILVER	UG/L		13		2	85		4	697
	ZINC	UG/L		927		211	77		169	15267
NON-CONV. METALS	ALUMINUM	UG/L		2873		247	91		226	NOT RUN
	BARIUM	UG/L		466		27	94		19	NOT RUN
	CALCIUM	MG/L		17		15	12		15	NOT RUN
	IRON	UG/L		4755		537	89		476	NOT RUN
	MAGNESIUM	MG/L		5		4	20		4	NOT RUN
	MANGANESE	UG/L		378		244	35		238	NOT RUN
	SODIUM	MG/L		66		66			65	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 23

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM.		TERTIARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L		130		26	80		16	11642	1147
	TOTAL SUSP. SOLIDS	MG/L		78		18	77		16	19625	1215
	COD	MG/L		287		108	62		110	19867	3333
	OIL & GREASE	MG/L		20		9	55		8	5650	387
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L		320		256	20		86	464	216
	TOTAL SOLIDS	MG/L		543		325	40		319	25019	2275
	TOTAL DISS. SOLIDS	MG/L		386		390			322	6000	NOT RUN
	SETTLEABLE SOLIDS	ML/L		9	L	1	89	L	1	1833	975
	TOTAL VOLATILE SOLIDS	MG/L		187		71	62		64	20325	1500
	VOLATILE DISS. SOLIDS	MG/L		186		91	51		132	6375	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L		62		13	79		8	11375	2392
	AMMONIA NITROGEN	MG/L		7		10			10	26	14
	TOC	MG/L		63		32	49		22	942	278
VOLATILES	BENZENE	UG/L		0	L	1		L	1	3	1
	1,2-DICHLOROETHANE	UG/L	L	1	L	1		L	1	2	1
	1,1,1-TRICHLOROETHANE	UG/L		11	L	1	91	L	1	5	N-D
	1,1-DICHLOROETHANE	UG/L	L	1	L	1		L	1	9	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	L	1	L	1		L	1	106	3
	CHLOROFORM	UG/L		1	L	1		L	1	8	0
	1,2-TRANS-DICHLOROETHYLENE	UG/L		8	L	1	88	L	1	130	7
	ETHYLBENZENE	UG/L		6		1	83	L	1	91	N-D
	METHYLENE CHLORIDE	UG/L		78		3	96		3	60	3
	TETRACHLOROETHYLENE	UG/L		23		2	91		1	N-D	N-D
	TOLUENE	UG/L		9	L	1	89	L	1	72	3207
	TRICHLOROETHYLENE	UG/L		37	L	1	97	L	1	693	7
ACID EXTRACT	PARACHLOROMETA CRESOL	UG/L		8	L	1	88	L	1	16	N-D
	2-CHLOROPHENOL	UG/L	L	1	L	1		L	1	4	N-D
	PENTACHLOROPHENOL	UG/L		2		1	50		0	18	19
	PHENOL	UG/L		2	L	1	50		0	47	81
BASE-NEUTRALS	1,2,4-TRICHLOROBENZENE	UG/L		2	L	5		L	5	219	N-D
	1,2-DICHLOROBENZENE	UG/L	L	5	L	5		L	5	50	N-D
	1,4-DICHLOROBENZENE	UG/L	L	5	L	5		L	5	78	N-D
	FLUORANTHENE	UG/L	L	4	L	4		L	4	11	5
	NAPHTHALENE	UG/L		3	L	5		L	3	93	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L		98		75	23		103	5909	2939
	BUTYL BENZYL PHTHALATE	UG/L		14		1	93		2	5376	131
	DI-N-BUTYL PHTHALATE	UG/L		8		4	50		5	467	23
	DI-N-OCTYL PHTHALATE	UG/L	L	5		1			2	91	32
	DIETHYL PHTHALATE	UG/L		1	L	5		L	5	2	1
	ANTHRACENE	UG/L	L	5	L	10		L	5	41	20
	PHENANTHRENE	UG/L	L	5	L	10		L	5	41	20
	PYRENE	UG/L	L	4	L	4		L	4	8	5
PESTICIDES	HEPTACHLOR	NG/L	L	400	L	200			12	N-D	N-D
	ALPHA-BHC	NG/L		30		3	90	L	250	N-D	N-D
	GAMMA-BHC	NG/L		48		50			158	N-D	N-D
	DELTA-BHC	NG/L		192		18	91		188	N-D	N-D
METALS	ANTIMONY	UG/L	L	50	L	50		L	50	266	47

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 23

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM.		TERTIARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE
METALS	ARSENIC	UG/L	L	50	L	50		L	50		6		1
	BERYLLIUM	UG/L	L	2	L	2		L	2	L	31		7
	CADMIUM	UG/L		25		14	44		14		999		365
	CHROMIUM	UG/L		82		42	49		41		4217		2148
	COPPER	UG/L		62		49	21		51		3600		1025
	CYANIDE	UG/L		204		189	7		11881		20533		9903
	LEAD	UG/L		9		9			9		3067		1060
	MERCURY	NG/L		50	L	200		L	200		39000	L	13000
	NICKEL	UG/L		22		19	14		20		153		85
	SELENIUM	UG/L	L	50	L	50		L	50		5		2
	SILVER	UG/L		2	L	5		L	5		187		73
	ZINC	UG/L		274		134	51		138		6983		1692
NON-CONV. METALS	ALUMINUM	UG/L		1309		655	50		636		NOT RUN		NOT RUN
	BARIUM	UG/L		53		23	57		23		NOT RUN		NOT RUN
	CALCIUM	MG/L		8		8			8		NOT RUN		NOT RUN
	IRON	UG/L		1678		1242	26		1250		NOT RUN		NOT RUN
	MANGANESE	UG/L		66		67			66		NOT RUN		NOT RUN
	SODIUM	MG/L		89		71	20		71		NOT RUN		NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 24

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L		275		13	95	16137	149
	TOTAL SUSP. SOLIDS	MG/L		111		31	72	46500	340
	COD	MG/L		988		152	85	79167	1197
	OIL & GREASE	MG/L		68		55	19	7333	209
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L		104		97	7	338	173
	TOTAL SOLIDS	MG/L		577		430	25	44737	594
	TOTAL DISS. SOLIDS	MG/L		371		346	7	9583	530
	SETTLEABLE SOLIDS	ML/L		6		1	83	1000	7
	TOTAL VOLATILE SOLIDS	MG/L		264		101	62	32657	240
	VOLATILE DISS. SOLIDS	MG/L		109		94	14	8625	310
	TOTAL VOL. SUS. SOLIDS	MG/L		75		20	73	19833	278
	AMMONIA NITROGEN	MG/L		11		21		71	18
	TOC	MG/L		127		20	84	4117	34
VOLATILES	BENZENE	UG/L	L	1	L	1		17	1
	1,1,1-TRICHLOROETHANE	UG/L		1	L	1		N-D	N-D
	1,1,2-TRICHLOROETHANE	UG/L	L	1	L	1		69	2
	1,1,2,2-TETRACHLOROETHANE	UG/L	L	1	L	1		3	N-D
	CHLOROETHANE	UG/L	L	25	L	25		2635	46
	CHLOROFORM	UG/L		3		2	33	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L		10	L	1	90	332	3
	ETHYLBENZENE	UG/L	L	1	L	1		4	0
	METHYLENE CHLORIDE	UG/L		6		1	83	55	0
	METHYL CHLORIDE	UG/L	L	25	L	25		1145	10
	METHYL BROMIDE	UG/L	L	20	L	20		4178	20
	DICHLORODIFLUOROMETHANE	UG/L	L	20	L	20		175	8
	TETRACHLOROETHYLENE	UG/L		24		0	100	22	4
	TOLUENE	UG/L		2		1	50	15773	60
	TRICHLOROETHYLENE	UG/L		51	L	1	98	548	4
ACID EXTRACT	PENTACHLOROPHENOL	UG/L		45		14	69	1700	N-D
	PHENOL	UG/L		3		1	67	675	N-D
BASE-NEUTRALS	FLUORANTHENE	UG/L	L	4	L	4		11	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L		66		58	12	1703	27
	BUTYL BENZYL PHTHALATE	UG/L		7	L	3	57	398	N-D
	DI-N-BUTYL PHTHALATE	UG/L		5		5		110	N-D
	CHRYSENE	UG/L	L	5	L	5		8	N-D
	PHENANTHRENE	UG/L	L	5	L	5		9	N-D
	PYRENE	UG/L	L	4	L	4		10	N-D
PESTICIDES	HEPTACHLOR EPOXIDE	NG/L	L	400		15		N-D	N-D
	GAMMA-BHC	NG/L	L	200		147		N-D	N-D
METALS	ANTIMONY	UG/L	L	50	L	50		27	0
	ARSENIC	UG/L	L	50	L	50		42	0
	BERYLLIUM	UG/L	L	2	L	2		9	4
	CADMIUM	UG/L	L	2	L	2		30	7
	CHROMIUM	UG/L		1	L	5		840	42
	COPPER	UG/L		20		20		970	30
	CYANIDE	UG/L		175		47	73	67117	201
	LEAD	UG/L	L	50	L	50		1900	155

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 24

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE		SECONDARY SLUDGE
METALS	MERCURY	NG/L		67		200		39000	L	9000
	NICKEL	UG/L	L	10	L	10		300	L	200
	SELENIUM	UG/L	L	50	L	50		4	L	5
	SILVER	UG/L	L	5	L	5		121	L	70
	ZINC	UG/L		93		77	17	4433		143
NON-CONV. METALS	ALUMINUM	UG/L		1210		1068	12	NOT RUN		NOT RUN
	BARIUM	UG/L		232		139	40	NOT RUN		NOT RUN
	CALCIUM	MG/L		6		12		NOT RUN		NOT RUN
	IRON	UG/L		2890		2782	4	NOT RUN		NOT RUN
	MANGANESE	UG/L		182		153	16	NOT RUN		NOT RUN
	SODIUM	MG/L		72		75		NOT RUN		NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 25

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRE CL TERT EFF	CHLORINATED TERT EFF	PRIMARY SLUDGE	SECONDARY SLUDGE
CONV.	BOD	MG/L	329	30	91	NOT RUN	8	27267	12865
	TOTAL SUSP. SOLIDS	MG/L	182	42	77	NOT RUN	2	NOT RUN	NOT RUN
	COD	MG/L	607	95	84	NOT RUN	45	70933	19467
	OIL & GREASE	MG/L	40	7	82	NOT RUN	4	8967	1318
NON-CONV.	TOTAL PHENOLS	UG/L	538	480	11	NOT RUN	231	1572	567
	TOTAL SOLIDS	MG/L	851	541	36	NOT RUN	532	45283	13184
	TOTAL DISS. SOLIDS	MG/L	578	527	9	NOT RUN	518	18034	10000
	SETTLEABLE SOLIDS	ML/L	11	L 1	91	NOT RUN	L 1	1000	993
	TOTAL VOLATILE SOLIDS	MG/L	297	78	74	NOT RUN	41	31600	9732
	VOLATILE DISS. SOLIDS	MG/L	132	83	37	NOT RUN	66	12235	7200
	TOTAL VOL. SUS. SOLIDS	MG/L	144	33	77	NOT RUN	L 1	NOT RUN	NOT RUN
	AMMONIA NITROGEN	MG/L	17	6	65	NOT RUN	0	81	11
	TOC	MG/L	118	21	82	NOT RUN	15	3717	1167
VOLATILES	BENZENE	UG/L	0	L 1		L 1	L 1	6	1
	1,2-DICHLOROETHANE	UG/L	L 1	L 1		L 1	L 1	N-D	0
	1,1,1-TRICHLOROETHANE	UG/L	46	9	80	2	2	15	N-D
	1,1-DICHLOROETHANE	UG/L	1	0	100	2	2	27	12
	CHLOROFORM	UG/L	17	6	65	3	10	2	0
	1,1-DICHLOROETHYLENE	UG/L	L 1	L 1		L 1	L 1	N-D	0
	1,2-TRANS-DICHLOROETHYLENE	UG/L	1	L 1		L 1	L 1	3	N-D
	ETHYLBENZENE	UG/L	7	L 1	86	L 1	L 1	41	N-D
	METHYLENE CHLORIDE	UG/L	12	6	50	8	7	20	1
	DICHLOROBROMOMETHANE	UG/L	L 1	L 1		L 1	5	N-D	1
	CHLORODIBROMOMETHANE	UG/L	L 1	L 1		L 1	2	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	12	3	75	1	1	126	18
	TOLUENE	UG/L	20	0	100	L 1	0	698	161
	TRICHLOROETHYLENE	UG/L	2	L 1	50	L 1	L 1	6	1
ACIDS	PHENOL	UG/L	6	0	100	L 1	L 1	172	42
BASE-NEUT.	1,2-DICHLOROBENZENE	UG/L	1	L 5		L 5	L 5	129	9
	1,3-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	L 5	147	N-D
	1,4-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	L 5	243	19
	FLUORANTHENE	UG/L	L 4	L 4		L 4	L 4	141	7
	NAPHTHALENE	UG/L	4	L 5		L 5	L 5	178	1
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	73	19	74	38	124	5218	848
	BUTYL BENZYL PHTHALATE	UG/L	11	L 3	73	L 3	L 3	987	3
	DI-N-BUTYL PHTHALATE	UG/L	4	3	25	3	2	373	9
	DI-N-OCTYL PHTHALATE	UG/L	L 5	L 5		2	6	357	27
	DIETHYL PHTHALATE	UG/L	7	L 5	29	L 5	L 5	93	N-D
	DIMETHYL PHTHALATE	UG/L	L 5	L 5		L 5	L 5	24	18
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	L 5	243	19
	BENZO (A)PYRENE	UG/L	L 10	L 10		L 10	L 10	179	18
	3,4-BENZOFLUORANTHENE	UG/L	L 5	L 5		L 5	L 5	214	19
	11,12-BENZOFLUORANTHENE	UG/L	L 5	L 5		L 5	L 5	214	19
	CHRYSENE	UG/L	L 5	L 5		L 5	L 5	243	19
	ANTHRACENE	UG/L	L 5	L 5		L 5	L 5	322	11
	1,12-BENZOPERYLENE	UG/L	L 25	L 25		L 25	L 25	53	N-D
	PHENANTHRENE	UG/L	L 5	L 5		L 5	L 5	322	11
	INDENO(1,2,3-C,D) PYRENE	UG/L	L 25	L 25		L 25	L 25	54	N-D
	PYRENE	UG/L	L 4	L 4		L 4	L 4	99	16

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 25

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRE CL TERT EFF	CHLORINATED TERT EFF	PRIMARY SLUDGE	SECONDARY SLUDGE
PESTICIDES	4,4'-DDD	NG/L	L 600	L 120		222	47	N-D	N-D
	ALPHA-BHC	NG/L	127	12	91	20	5	N-D	N-D
	GAMMA-BHC	NG/L	385	153	60	140	148	N-D	N-D
	DELTA-BHC	NG/L	L 200	7		3	63	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		NOT RUN	L 50	74	15
	ARSENIC	UG/L	L 50	L 50		NOT RUN	L 50	63	59
	CADMIUM	UG/L	4	L 2	50	NOT RUN	L 2	319	211
	CHROMIUM	UG/L	80	25	69	NOT RUN	7	8533	3500
	COPPER	UG/L	107	7	93	NOT RUN	2	12767	4460
	CYANIDE	UG/L	1215	244	80	NOT RUN	NOT RUN	198333	32983
	LEAD	UG/L	55	L 50	9	NOT RUN	L 50	8767	2543
	MERCURY	NG/L	600	83	86	NOT RUN	L 200	133333	22500
	NICKEL	UG/L	6	L 10		NOT RUN	L 10	782	180
	SELENIUM	UG/L	L 50	L 50		NOT RUN	L 50	19	6
	SILVER	UG/L	9	1	89	NOT RUN	L 5	1365	505
	ZINC	UG/L	179	24	87	NOT RUN	4	18733	7583
N-C METALS	ALUMINUM	UG/L	1215	283	77	NOT RUN	57	NOT RUN	NOT RUN
	BARIUM	UG/L	81	17	79	NOT RUN	3	NOT RUN	NOT RUN
	CALCIUM	MG/L	63	59	6	NOT RUN	60	NOT RUN	NOT RUN
	IRON	UG/L	1768	494	72	NOT RUN	107	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	7	7		NOT RUN	7	NOT RUN	NOT RUN
	MANGANESE	UG/L	28	23	18	NOT RUN	22	NOT RUN	NOT RUN
	SODIUM	MG/L	90	80	11	NOT RUN	82	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 26

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	COMBINED SLUDGE	SECONDARY SLUDGE	VAC FILT FILTRATE
CONVENTIONALS	BOD	MG/L	108	17	84	34867	7358	2130
	TOTAL SUSP. SOLIDS	MG/L	113	6	95	NOT RUN	NOT RUN	1850
	COD	MG/L	246	42	83	67500	9217	4213
	OIL & GREASE	MG/L	13	6	54	3375	390	542
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	77	61	21	742	206	292
	TOTAL SOLIDS	MG/L	690	487	29	55940	8586	4467
	TOTAL DISS. SOLIDS	MG/L	518	532		22067	4390	NOT RUN
	SETTLEABLE SOLIDS	ML/L	2	L 1	50	1000	843	76
	TOTAL VOLATILE SOLIDS	MG/L	176	87	51	28182	5560	2343
	VOLATILE DISS. SOLIDS	MG/L	111	109	2	5725	3510	777
	TOTAL VOL. SUS. SOLIDS	MG/L	65	5	92	NOT RUN	NOT RUN	1490
	AMMONIA NITROGEN	MG/L	4	2	50	114	7	85
	TOC	MG/L	47	8	83	3717	2208	830
VOLATILES	BENZENE	UG/L	2	L 1	50	11	N-D	1
	CHLOROBENZENE	UG/L	L 1	L 1		N-D	N-D	1
	1,1,1-TRICHLOROETHANE	UG/L	5	1	80	N-D	N-D	1
	CHLOROFORM	UG/L	1	1		N-D	N-D	1
	1,2-TRANS-DICHLOROETHYLENE	UG/L	2	L 1	50	1217	88	22
	ETHYLBENZENE	UG/L	5	L 1	80	109	15	28
	METHYLENE CHLORIDE	UG/L	6	5	17	104	33	2
	DICHLORODIFLUOROMETHANE	UG/L	L 20	L 20		N-D	5	L 20
	TETRACHLOROETHYLENE	UG/L	97	28	71	12	4	25
	TOLUENE	UG/L	22	L 1	95	198	14	32
	TRICHLOROETHYLENE	UG/L	8	1	88	3	14	27
ACID EXTRACT	2-CHLOROPHENOL	UG/L	L 1	L 2		N-D	N-D	0
	2,4-DICHLOROPHENOL	UG/L	L 2	L 2		N-D	N-D	0
	2,4-DIMETHYLPHENOL	UG/L	L 2	L 2		N-D	N-D	1
	PENTACHLOROPHENOL	UG/L	L 5	L 5		N-D	N-D	1
	PHENOL	UG/L	1	L 1		175	73	39
BASE-NEUTRALS	HEXACHLOROBENZENE	UG/L	L 50	L 10		37	N-D	L 50
	2-CHLORONAPHTHALENE	UG/L	L 15	L 3		N-D	N-D	1
	1,3-DICHLOROBENZENE	UG/L	L 25	L 5		6	N-D	L 25
	1,4-DICHLOROBENZENE	UG/L	L 25	L 5		7	N-D	L 25
	FLUORANTHENE	UG/L	L 20	L 4		242	42	L 20
	NAPHTHALENE	UG/L	1	L 3		426	18	44
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	84	51	39	11163	8583	140
	DI-N-BUTYL PHTHALATE	UG/L	1	1		N-D	N-D	L 20
	DI-N-OCTYL PHTHALATE	UG/L	L 25	1		N-D	N-D	L 25
	DIMETHYL PHTHALATE	UG/L	L 25	L 5		14	N-D	L 25
	CHRYSENE	UG/L	L 25	L 5		268	42	L 25
	ANTHRACENE	UG/L	L 25	L 5		313	64	L 25
	PHENANTHRENE	UG/L	L 25	L 5		313	64	L 25
	PYRENE	UG/L	L 20	L 4		202	37	L 20
PESTICIDES	ALDRIN	NG/L	L 400	L 100		N-D	N-D	30
	HEPTACHLOR	NG/L	177	27	85	N-D	N-D	1563
	HEPTACHLOR EPOXIDE	NG/L	L 400	L 100		N-D	N-D	283
	GAMMA-BHC	NG/L	222	32	86	N-D	N-D	57

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 26

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	COMBINED SLUDGE	SECONDARY SLUDGE	VAC FILT FILTRATE
METALS	ANTIMONY	UG/L	L 50	L 50		56	25	L 50
	ARSENIC	UG/L	L 50	L 50		336	113	23
	BERYLLIUM	UG/L	L 2	L 2		32	L 32	1
	CADMIUM	UG/L	3	L 2	33	353	218	58
	CHROMIUM	UG/L	49	12	76	6900	3217	729
	COPPER	UG/L	102	8	92	15800	6083	1480
	CYANIDE	UG/L	71	41	42	83617	1903	786
	LEAD	UG/L	35	L 50		15400	3467	982
	MERCURY	NG/L	283	L 200	29	161833	54000	2483
	NICKEL	UG/L	21	11	48	1228	315	248
	SELENIUM	UG/L	L 50	L 50		85	50	16
	SILVER	UG/L	4	L 5		1108	485	100
	ZINC	UG/L	381	134	65	91217	17167	4782
NON-CONV. METALS	ALUMINUM	UG/L	2060	165	92	NOT RUN	NOT RUN	26883
	BARIUM	UG/L	103	29	72	NOT RUN	NOT RUN	1217
	CALCIUM	MG/L	65	61	6	NOT RUN	NOT RUN	350
	IRON	UG/L	3790	237	94	NOT RUN	NOT RUN	49867
	MAGNESIUM	MG/L	15	14	7	NOT RUN	NOT RUN	25
	MANGANESE	UG/L	301	216	28	NOT RUN	NOT RUN	1860
	SODIUM	MG/L	61	61		NOT RUN	NOT RUN	70

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 27

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	OTHER EFFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE	OTHER SLUDGE
CONV.	BOD	MG/L	173	15	91	44	4446	2944	1401
	TOTAL SUSP. SOLIDS	MG/L	186	11	94	36	9712	6200	4093
	COD	MG/L	364	68	81	131	12634	6363	4772
	OIL & GREASE	MG/L	56	4	93	9	3512	1545	844
NON-CONV.	TOTAL PHENOLS	UG/L	39	8	79	18	133	35	56
	TOTAL SOLIDS	MG/L	590	356	40	443	11053	6679	5178
	TOTAL DISS. SOLIDS	MG/L	405	347	14	407	1281	479	674
	SETTLEABLE SOLIDS	ML/L	5	L 1	80	L 1	390	665	157
	TOTAL VOLATILE SOLIDS	MG/L	277	94	66	146	8010	4858	3250
	VOLATILE DISS. SOLIDS	MG/L	92	84	9	115	963	169	371
	TOTAL VOL. SUS. SOLIDS	MG/L	150	10	93	31	7047	4762	2878
	AMMONIA NITROGEN	MG/L	20	20		22	125	94	117
	TOC	MG/L	103	18	83	46	2919	2263	1560
VOLATILES	BENZENE	UG/L	2	L 1	50	L 1	8	2	1
	1,1,1-TRICHLOROETHANE	UG/L	12	0	100	3	N-D	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	L 1	L 1		L 1	8	N-D	N-D
	CHLOROFORM	UG/L	4	1	75	2	N-D	N-D	N-D
	1,1-DICHLOROETHYLENE	UG/L	L 1	L 1		L 1	3	N-D	0
	1,2-TRANS-DICHLOROETHYLENE	UG/L	1	L 1		L 1	90	4	7
	ETHYLBENZENE	UG/L	83	L 1	99	10	546	N-D	8
	METHYLENE CHLORIDE	UG/L	6	6		5	29	2	2
	TRICHLOROFLUOROMETHANE	UG/L	1	L 1		L 1	N-D	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	14	2	86	8	2	0	N-D
	TOLUENE	UG/L	50	L 1	98	9	5205	3827	1226
	TRICHLOROETHYLENE	UG/L	26	L 1	96	2	4	N-D	N-D
ACIDS	2,4-DIMETHYLPHENOL	UG/L	2	L 2		L 2	N-D	N-D	N-D
	PHENOL	UG/L	L 1	L 1		L 1	64	112	114
BASE-NEUT.	HEXACHLOROETHANE	UG/L	2	L 5		L 5	N-D	N-D	N-D
	1,2-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	14	N-D	2
	1,4-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	29	N-D	1
	FLUORANTHENE	UG/L	L 4	L 4		L 4	40	1	23
	ISOPHORONE	UG/L	4	L 10		L 10	N-D	N-D	N-D
	NAPHTHALENE	UG/L	5	L 3	40	L 3	171	1	8
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	38	6	84	26	221	1023	287
	BUTYL BENZYL PHTHALATE	UG/L	15	L 3	80	1	222	6	22
	DI-N-BUTYL PHTHALATE	UG/L	8	L 4	50	4	97	5	5
	DI-N-OCTYL PHTHALATE	UG/L	L 5	L 5		L 5	2	6	8
	DIETHYL PHTHALATE	UG/L	2	L 5		L 5	N-D	N-D	0
	DIMETHYL PHTHALATE	UG/L	1	L 5		L 5	N-D	2	1
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	17	5	9
	BENZO (A)PYRENE	UG/L	L 5	L 5		L 5	1	N-D	1
	3,4-BENZOFLUORANTHENE	UG/L	L 5	L 5		L 5	2	1	3
	11,12-BENZOFLUORANTHENE	UG/L	L 5	L 5		L 5	2	1	3
	CHRYSENE	UG/L	L 5	L 5		L 5	17	5	9
	ANTHRACENE	UG/L	1	L 5		L 5	333	5	28
	FLUORENE	UG/L	L 5	L 5		L 5	142	N-D	6
	PHENANTHRENE	UG/L	1	L 5		L 5	333	5	28
	PYRENE	UG/L	L 4	L 4		L 4	66	5	33

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 27

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	*OTHER EFFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE	OTHER SLUDGE
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	150	86	274
	ARSENIC	UG/L	L 50	L 50		L 50	24	19	25
	CADMIUM	UG/L	L 2	L 2		L 2	50	74	53
	CHROMIUM	UG/L	125	16	87	93	6083	4900	3667
	COPPER	UG/L	241	15	94	156	7233	10750	9833
	CYANIDE	UG/L	28	7	75	17	1450	861	744
	LEAD	UG/L	L 50	L 50		10	2000	1352	1508
	MERCURY	NG/L	617	50	92	433	49833	49667	46167
	NICKEL	UG/L	55	37	33	58	1083	835	968
	SELENIUM	UG/L	2	3		2	33	31	19
	SILVER	UG/L	5	L 5		L 5	260	223	233
	ZINC	UG/L	395	57	86	198	11950	9320	11350
N-C METALS	ALUMINUM	UG/L	903	39	96	415	NOT RUN	NOT RUN	NOT RUN
	BARIUM	UG/L	318	59	81	117	NOT RUN	NOT RUN	NOT RUN
	CALCIUM	MG/L	32	29	9	29	NOT RUN	NOT RUN	NOT RUN
	IRON	UG/L	2685	303	89	1880	NOT RUN	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	9	8	11	9	NOT RUN	NOT RUN	NOT RUN
	MANGANESE	UG/L	137	111	19	127	NOT RUN	NOT RUN	NOT RUN
	SODIUM	MG/L	51	53		53	NOT RUN	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 28

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	523	20	96	395	10035	3913
	TOTAL SUSP. SOLIDS	MG/L	399	24	94	216	24333	8750
	COD	MG/L	1388	221	84	1016	38133	13933
	OIL & GREASE	MG/L	60	46	23	52	4750	565
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	2285	58	97	2144	2401	536
	TOTAL SOLIDS	MG/L	1700	1117	34	1515	29183	10103
	TOTAL DISS. SOLIDS	MG/L	1082	1073	1	1065	880	NOT RUN
	SETTLEABLE SOLIDS	ML/L	15	L 1	93	L 1	998	819
	TOTAL VOLATILE SOLIDS	MG/L	712	200	72	532	21398	7753
	VOLATILE DISS. SOLIDS	MG/L	182	132	27	134	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	313	20	94	148	14667	7100
	AMMONIA NITROGEN	MG/L	17	13	24	21	63	22
	TOC	MG/L	403	63	84	279	4317	2667
VOLATILES	BENZENE	UG/L	224	L 1	100	187	306	1
	CARBON TETRACHLORIDE	UG/L	131	16	88	36	679	26
	CHLOROBENZENE	UG/L	5	L 1	80	4	35	N-D
	1,2-DICHLOROETHANE	UG/L	6582	4420	33	6827	3761	2769
	1,1,1-TRICHLOROETHANE	UG/L	6575	852	87	2992	4578	1781
	1,1-DICHLOROETHANE	UG/L	2	1	50	2	N-D	N-D
	1,1,2-TRICHLOROETHANE	UG/L	5	4	20	5	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	1	L 1		0	N-D	N-D
	CHLOROFORM	UG/L	118	59	50	68	231	125
	1,1-DICHLOROETHYLENE	UG/L	31	2	94	15	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	11	1	91	7	598	23
	1,2-DICHLOROPROPANE	UG/L	438	2	100	4	N-D	N-D
	ETHYLBENZENE	UG/L	157	4	97	77	274	22
	METHYLENE CHLORIDE	UG/L	795	1151		2087	4135	2514
	METHYL CHLORIDE	UG/L	321	105	67	258	N-D	N-D
	METHYL BROMIDE	UG/L	90	L 20	78	83	N-D	N-D
	BROMOFORM	UG/L	1	2		2	N-D	N-D
	DICHLOROBROMOMETHANE	UG/L	10	5	50	4	N-D	N-D
	TRICHLOROFLUOROMETHANE	UG/L	37	1	97	7	N-D	N-D
	CHLORODIBROMOMETHANE	UG/L	1	2		1	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	2862	440	85	1217	N-D	N-D
	TOLUENE	UG/L	4845	9	100	3633	4807	86
	TRICHLOROETHYLENE	UG/L	659	87	87	355	6433	1691
	VINYL CHLORIDE	UG/L	15	L 20		8	N-D	N-D
ACID EXTRACT	2-NITROPHENOL	UG/L	11	L 3	73	L 24	N-D	N-D
	PENTACHLOROPHENOL	UG/L	5	2	60	6	N-D	N-D
	PHENOL	UG/L	908	1	100	428	1762	348
BASE-NEUTRALS	HEXACHLOROETHANE	UG/L	1	L 5		L 5	N-D	N-D
	2-CHLORONAPHTHALENE	UG/L	1	L 3		L 3	N-D	N-D
	1,2-DICHLOROBENZENE	UG/L	46	2	96	26	573	191
	1,4-DICHLOROBENZENE	UG/L	4	L 5		6	N-D	N-D
	ISOPHORONE	UG/L	L 10	L 10		2	N-D	N-D
	NAPHTHALENE	UG/L	10	L 3	70	5	112	30
	NITROBENZENE	UG/L	L 10	L 10		3	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	131	47	64	86	13477	4601
	BUTYL BENZYL PHTHALATE	UG/L	176	1	99	8	88	8

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 28

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
BASE-NEUTRALS	DI-N-BUTYL PHTHALATE	UG/L	48	1	98	6	N-D	N-D
	DI-N-OCTYL PHTHALATE	UG/L	1	3		2	N-D	N-D
	DIETHYL PHTHALATE	UG/L	5	L 5		3	N-D	N-D
	DIMETHYL PHTHALATE	UG/L	1	L 5		L 5	N-D	N-D
	PHENANTHRENE	UG/L	L 5	L 5		L 5	37	12
PESTICIDES	HEPTACHLOR	NG/L	L 800	250		L 800	N-D	N-D
	ALPHA-BHC	NG/L	638	103	84	303	N-D	N-D
	DELTA-BHC	NG/L	382	370	3	500	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	225	48
	ARSENIC	UG/L	L 50	L 50		L 50	79	30
	BERYLLIUM	UG/L	L 2	L 2		L 2	37	L 32
	CADMIUM	UG/L	51	7	86	31	1098	597
	CHROMIUM	UG/L	170	40	76	106	6667	2350
	COPPER	UG/L	1704	129	92	887	47200	20500
	CYANIDE	UG/L	414	47	89	441	12880	10730
	LEAD	UG/L	1223	34	97	532	28000	11400
	MERCURY	NG/L	617	133	78	383	57167	53167
	NICKEL	UG/L	91	74	19	78	2313	430
	SELENIUM	UG/L	L 50	L 50		L 50	29	13
	SILVER	UG/L	17	L 5	71	10	498	225
	ZINC	UG/L	7170	2607	64	4305	153167	36142
NON-CONV. METALS	ALUMINUM	UG/L	1643	194	88	1004	NOT RUN	NOT RUN
	BARIUM	UG/L	279	64	77	141	NOT RUN	NOT RUN
	CALCIUM	MG/L	83	72	13	76	NOT RUN	NOT RUN
	IRON	UG/L	3072	809	74	2538	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	24	22	8	22	NOT RUN	NOT RUN
	MANGANESE	UG/L	235	204	13	207	NOT RUN	NOT RUN
	SODIUM	MG/L	225	226		221	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 29

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	187	63	66	282	39574	2061
	TOTAL SUSP. SOLIDS	MG/L	98	44	55	188	51310	2513
	COD	MG/L	503	270	46	668	62883	2213
	OIL & GREASE	MG/L	40	15	63	37	7817	575
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	76	83		97	1086	262
	TOTAL SOLIDS	MG/L	877	810	8	1033	54869	3599
	TOTAL DISS. SOLIDS	MG/L	740	688	7	794	1717	NOT RUN
	SETTLEABLE SOLIDS	ML/L	11	L 1	91	7	833	143
	TOTAL VOLATILE SOLIDS	MG/L	290	199	31	377	32347	2178
	VOLATILE DISS. SOLIDS	MG/L	75	77		109	750	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	35	33	6	138	28750	1475
	AMMONIA NITROGEN	MG/L	67	NOT RUN		76	170	114
	TOC	MG/L	93	51	45	99	3650	665
VOLATILES	BENZENE	UG/L	1	1		1	N-D	1
	CHLOROBENZENE	UG/L	1	0	100	0	N-D	N-D
	1,2-DICHLOROETHANE	UG/L	0	0		0	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	33	35		194	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	1	5		5	54	16
	1,1,2-TRICHLOROETHANE	UG/L	L 1	0		0	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 1	0		0	N-D	N-D
	CHLOROFORM	UG/L	11	25		12	N-D	N-D
	1,1-DICHLOROETHYLENE	UG/L	4	1	75	6	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	9	10		21	154	10
	ETHYLBENZENE	UG/L	2	0	100	2	N-D	N-D
	METHYLENE CHLORIDE	UG/L	186	84	55	178	141	60
	BROMOFORM	UG/L	L 1	L 1		0	N-D	N-D
	DICHLOROBROMOMETHANE	UG/L	L 1	1		0	N-D	N-D
	DICHLORODIFLUOROMETHANE	UG/L	123	L 20	84	24	N-D	N-D
	CHLORODIBROMOMETHANE	UG/L	L 1	0		L 1	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	26	12	54	24	N-D	1
	TOLUENE	UG/L	22	10	55	43	420	9
	TRICHLOROETHYLENE	UG/L	11	5	55	1 1	N-D	N-D
ACID EXTRACT	2-CHLOROPHENOL	UG/L	L 1	L 1		L 1	2	N-D
	PENTACHLOROPHENOL	UG/L	5	3	40	5	34	N-D
	PHENOL	UG/L	2	1	50	4	268	8
BASE-NEUTRALS	1,2,4-TRICHLOROBENZENE	UG/L	L 5	L 5		L 5	214	1
	1,2-DICHLOROBENZENE	UG/L	4	2	50	6	672	3
	1,3-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	177	N-D
	1,4-DICHLOROBENZENE	UG/L	3	1	67	3	394	N-D
	FLUORANTHENE	UG/L	1	L 4		L 4	2532	40
	NAPHTHALENE	UG/L	L 3	L 3		L 3	56	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	25	19	24	27	11188	449
	BUTYL BENZYL PHTHALATE	UG/L	1	L 3		1	33	13
	DI-N-BUTYL PHTHALATE	UG/L	9	7	22	5	50	11
	DI-N-OCTYL PHTHALATE	UG/L	L 5	L 5		L 5	9	3
	DIETHYL PHTHALATE	UG/L	3	L 5		3	6	N-D
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	245	1
	BENZO (A)PYRENE	UG/L	L 10	L 10		L 10	39	N-D
	3,4-BENZOFLUORANTHENE	UG/L	L 5	L 5		L 5	151	0

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 29

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM.		PRIMARY EFFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE
BASE-NEUTRALS	11,12-BENZOFLUORANTHENE	UG/L	L	5	L	5		L	5	151	0
	CHRYSENE	UG/L	L	5	L	5		L	5	245	1
	ANTHRACENE	UG/L	L	5	L	5		L	5	69	1
	1,12-BENZOPERYLENE	UG/L	L	25	L	25		L	25	26	N-D
	PHENANTHRENE	UG/L	L	5	L	5		L	5	69	1
	1,2:5,6-DIBENZANTHRACENE	UG/L	L	25	L	25		L	25	2	N-D
	INDENO(1,2,3-C,D) PYRENE	UG/L	L	25	L	25		L	25	6	N-D
	PYRENE	UG/L	L	4	L	4		L	4	449	6
PESTICIDES	ALDRIN	NG/L		87	L	400		L	400	N-D	N-D
	BETA-BHC	NG/L	L	200		283		L	200	N-D	N-D
	GAMMA-BHC	NG/L		20		142			108	N-D	N-D
METALS	ANTIMONY	UG/L	L	50	L	50		L	50	74	40
	ARSENIC	UG/L	L	50	L	50		L	50	152	15
	CADMIUM	UG/L	L	2	L	2		L	2	88	10
	CHROMIUM	UG/L		33		17	48		48	3717	125
	COPPER	UG/L		110		68	38		280	24700	2350
	CYANIDE	UG/L		370		134	64		707	12967	3235
	LEAD	UG/L	L	50	L	50			58	6417	1063
	MERCURY	NG/L		533		650			1917	175000	7167
	NICKEL	UG/L		13		12	8		33	3650	85
	SELENIUM	UG/L	L	50	L	50		L	50	17	3
	SILVER	UG/L		15		8	47		22	1767	138
	ZINC	UG/L		117		81	31		332	30450	2362
NON-CONV. METALS	ALUMINUM	UG/L		787		604	23		2360	NOT RUN	NOT RUN
	BARIUM	UG/L		141		111	21		267	NOT RUN	NOT RUN
	CALCIUM	MG/L		59		63			67	NOT RUN	NOT RUN
	IRON	UG/L		1502		1138	24		3723	NOT RUN	NOT RUN
	MAGNESIUM	MG/L		11		12			12	NOT RUN	NOT RUN
	MANGANESE	UG/L		125		123	2		152	NOT RUN	NOT RUN
	SODIUM	MG/L		108		108			109	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 30

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE	COMBINED SLUDGE(HT TRT)
CONV.	BOD	MG/L	308	23	93	281	359	4832	15601
	TOTAL SUSP. SOLIDS	MG/L	55	7	87	84	760	8977	23468
	COD	MG/L	541	96	82	468	778	11200	23500
	OIL & GREASE	MG/L	23	5	78	23	31	760	1533
NON-CONV	TOTAL PHENOLS	UG/L	968	140	86	606	656	234	430
	TOTAL SOLIDS	MG/L	706	604	14	667	1211	11233	30325
	SETTLEABLE SOLIDS	ML/L	4	L 1	75	L 1	171	915	307
	TOTAL VOLATILE SOLIDS	MG/L	121	87	28	119	388	7532	7798
	TOTAL VOL. SUS. SOLIDS	MG/L	35	4	89	57	232	6217	3677
	AMMONIA NITROGEN	MG/L	14	6	57	12	15	17	1277
	TOC	MG/L	134	28	79	136	132	1855	7183
VOLATILES	BENZENE	UG/L	203	1	100	129	1	N-D	24
	CHLOROBENZENE	UG/L	276	3	99	181	N-D	17	15
	1,2-DICHLOROETHANE	UG/L	16388	1798	89	23067	96	1577	53
	1,1,2-TRICHLOROETHANE	UG/L	17	L 1	94	5	N-D	N-D	N-D
	CHLOROETHANE	UG/L	3	L 25		L 25	N-D	N-D	N-D
	2-CHLOROETHYL VINYL ETHER	UG/L	1	L 10		L 10	N-D	N-D	N-D
	CHLOROFORM	UG/L	38	5	87	42	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	0	L 1		L 1	1	N-D	N-D
	ETHYLBENZENE	UG/L	21	1	95	25	15	3	5
	METHYLENE CHLORIDE	UG/L	7	9		8	1	7	2
	METHYL CHLORIDE	UG/L	310	63	80	125	N-D	N-D	N-D
	METHYL BROMIDE	UG/L	3	L 20		L 20	N-D	N-D	N-D
	BROMOFORM	UG/L	7	2	71	0	N-D	N-D	N-D
	DICHLOROBROMOMETHANE	UG/L	1	2		0	N-D	N-D	N-D
	CHLORODIBROMOMETHANE	UG/L	L 1	2		L 1	N-D	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	1	L 1		2	1	N-D	N-D
	TOLUENE	UG/L	773	4	99	787	601	391	41
	TRICHLOROETHYLENE	UG/L	2	L 1	50	2	1	N-D	N-D
	VINYL CHLORIDE	UG/L	70	L 20	71	28	N-D	N-D	N-D
ACIDS	PENTACHLOROPHENOL	UG/L	1	L 5		L 5	N-D	N-D	N-D
	PHENOL	UG/L	124	2	98	163	2	112	7643
BASE-NEUT.	1,2-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	N-D	N-D	26
	1,4-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	N-D	N-D	30
	1,2-DIPHENYLHYDRAZINE	UG/L	4	L 10		L 10	N-D	N-D	N-D
	FLUORANTHENE	UG/L	L 4	L 4		L 4	3	1	5
	NAPHTHALENE	UG/L	L 3	L 3		L 3	N-D	1	32
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	14	9	36	11	199	432	528
	BUTYL BENZYL PHTHALATE	UG/L	2	L 3		1	N-D	N-D	75
	DI-N-BUTYL PHTHALATE	UG/L	3	2	33	4	N-D	N-D	N-D
	DI-N-OCTYL PHTHALATE	UG/L	L 5	L 5		L 5	N-D	N-D	0
	DIETHYL PHTHALATE	UG/L	L 5	L 5		L 5	N-D	N-D	5
	DIMETHYL PHTHALATE	UG/L	1	L 5		2	N-D	N-D	35
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	N-D	1	N-D
	3,4-BENZOFLUORANTHENE	UG/L	L 5	L 5		L 5	N-D	1	N-D
	11,12-BENZOFLUORANTHENE	UG/L	L 5	L 5		L 5	N-D	1	N-D
	CHRYSENE	UG/L	L 5	L 5		L 5	N-D	1	N-D
	ACENAPHTHYLENE	UG/L	L 10	L 10		L 10	N-D	N-D	843
	ANTHRACENE	UG/L	L 5	L 5		L 5	0	1	20

POLLUTANTS NOT LISTED WERE NEVER DETECTED

L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 30

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE	COMBINED SLUDGE(HT TRT)
BASE-NEUT.	PHENANTHRENE	UG/L	L 5	L 5		L 5	0	1	20
	PYRENE	UG/L	L 4	L 4		L 4	5	3	1
PESTICIDES	ALDRIN	NG/L	2	L 100		200	N-D	N-D	N-D
	HEPTACHLOR	NG/L	L 100	30		L 400	N-D	N-D	N-D
	ALPHA-BHC	NG/L	36	23	36	L 200	N-D	N-D	N-D
	GAMMA-BHC	NG/L	62	L 50	19	43	N-D	N-D	N-D
	DELTA-BHC	NG/L	180	68	62	437	N-D	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	2	17	21
	ARSENIC	UG/L	L 50	L 50		L 50	10	99	823
	BERYLLIUM	UG/L	L 2	L 2		L 2	L 24	2	11
	CADMIUM	UG/L	L 2	L 2		L 2	L 10	26	61
	CHROMIUM	UG/L	410	59	86	278	133	5800	11900
	COPPER	UG/L	20	L 2	90	22	290	3800	12133
	CYANIDE	UG/L	1568	134	91	1120	921	2837	55433
	LEAD	UG/L	L 50	L 50		L 50	262	1557	8833
	MERCURY	NG/L	295	L 200	32	333	L 8000	15333	22667
	NICKEL	UG/L	50	17	66	30	50	307	890
	SELENIUM	UG/L	L 50	L 50		9	2	1	9
	SILVER	UG/L	1	L 5		L 5	57	110	283
	ZINC	UG/L	2769	36	99	1424	2700	69667	94667
N-C METALS	ALUMINUM	UG/L	1592	79	95	1091	NOT RUN	NOT RUN	NOT RUN
	BARIUM	UG/L	43	12	72	46	NOT RUN	NOT RUN	NOT RUN
	CALCIUM	MG/L	83	76	8	78	NOT RUN	NOT RUN	NOT RUN
	IRON	UG/L	1264	337	73	946	NOT RUN	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	7	7		7	NOT RUN	NOT RUN	NOT RUN
	MANGANESE	UG/L	1288	1044	19	1123	NOT RUN	NOT RUN	NOT RUN
	SODIUM	MG/L	80	81		79	NOT RUN	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 30
INDIVIDUAL INFLUENT AND SLUDGE POINTS

FRACTION	PARAMETER	UNITS		DOMESTIC INFLUENT		INDUSTRIAL INFLUENT	DOM PRIM SLUDGE	IND PRIM SLUDGE
CONVENTIONALS	BOD	MG/L		58		554	359	3280
	TOTAL SUSP. SOLIDS	MG/L		22		90	760	10363
	COD	MG/L		163		913	778	11083
	OIL & GREASE	MG/L		32		19	31	347
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L		605		1286	656	2518
	TOTAL SOLIDS	MG/L		350		1051	1211	11744
	SETTLEABLE SOLIDS	ML/L		0		8	171	979
	TOTAL VOLATILE SOLIDS	MG/L		77		179	388	5029
	TOTAL VOL. SUS. SOLIDS	MG/L		11		61	232	3942
	AMMONIA NITROGEN	MG/L		8		20	15	14
	TOC	MG/L		41		225	132	1542
VOLATILES	BENZENE	UG/L	L	1		398	1	200
	CHLOROBENZENE	UG/L	L	1		545	N-D	374
	1,2-DICHLOROETHANE	UG/L		171		32167	96	6500
	1,1,2-TRICHLOROETHANE	UG/L	L	1		13	N-D	N-D
	CHLOROETHANE	UG/L	L	25		6	N-D	N-D
	2-CHLOROETHYL VINYL ETHER	UG/L	L	10		2	N-D	N-D
	CHLOROFORM	UG/L		10		67	N-D	17
	1,2-TRANS-DICHLOROETHYLENE	UG/L	L	1		1	1	N-D
	ETHYLBENZENE	UG/L		0		42	15	76
	METHYLENE CHLORIDE	UG/L		1		14	1	42
	METHYL CHLORIDE	UG/L	L	25		616	N-D	N-D
	METHYL BROMIDE	UG/L	L	20		3	N-D	N-D
	BROMOFORM	UG/L	L	1		14	N-D	N-D
	DICHLOROBROMOMETHANE	UG/L		0		1	N-D	N-D
	CHLORODIBROMOMETHANE	UG/L	L	1		0	N-D	N-D
	TETRACHLOROETHYLENE	UG/L		3		1	1	5
	TOLUENE	UG/L		4		1537	601	683
	TRICHLOROETHYLENE	UG/L		1		4	1	4
	VINYL CHLORIDE	UG/L	L	20		135	N-D	N-D
ACID EXTRACT	PENTACHLOROPHENOL	UG/L	L	5		1	N-D	N-D
	PHENOL	UG/L	L	1		239	2	275
BASE-NEUTRALS	1,2-DICHLOROBENZENE	UG/L	L	5	L	5	N-D	1
	1,4-DICHLOROBENZENE	UG/L	L	5	L	5	N-D	1
	1,2-DIPHENYLHYDRAZINE	UG/L	L	10		8	N-D	N-D
	FLUORANTHENE	UG/L	L	4	L	4	3	1
	NAPHTHALENE	UG/L	L	3	L	3	N-D	1
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L		21		8	199	895
	BUTYL BENZYL PHTHALATE	UG/L		3	L	3	N-D	N-D
	DI-N-BUTYL PHTHALATE	UG/L		4		3	N-D	N-D
	DI-N-OCTYL PHTHALATE	UG/L	L	5	L	5	N-D	5
	DIMETHYL PHTHALATE	UG/L	L	5		1	N-D	N-D
	1,2-BENZANTHRACENE	UG/L	L	5	L	5	N-D	2
	3,4-BENZOFLUORANTHENE	UG/L	L	5	L	5	N-D	1
	11,12-BENZOFLUORANTHENE	UG/L	L	5	L	5	N-D	1
	CHRYSENE	UG/L	L	5	L	5	N-D	2
	ANTHRACENE	UG/L	L	5	L	5	0	4

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 30
INDIVIDUAL INFLUENT AND SLUDGE POINTS

FRACTION	PARAMETER	UNITS		DOMESTIC INFLUENT		INDUSTRIAL INFLUENT		DOM PRIM SLUDGE		IND PRIM SLUDGE
BASE-NEUTRALS	PHENANTHRENE	UG/L	L	5	L	5		0		4
	PYRENE	UG/L	L	4	L	4		5		1
PESTICIDES	ALDRIN	NG/L		5	L	400		N-D		N-D
	ALPHA-BHC	NG/L	L	50		70		N-D		N-D
	GAMMA-BHC	NG/L		57		70		N-D		N-D
	DELTA-BHC	NG/L	L	100		353		N-D		N-D
METALS	ANTIMONY	UG/L	L	50	L	50		2		15
	ARSENIC	UG/L	L	50	L	50		10		860
	BERYLLIUM	UG/L	L	2	L	2	L	24		1
	CADMIUM	UG/L	L	2	L	2	L	10		9
	CHROMIUM	UG/L		10		814		133		13733
	COPPER	UG/L		14		26		290		10400
	CYANIDE	UG/L		503		2613		921		6333
	LEAD	UG/L	L	50	L	50		262		3167
	MERCURY	NG/L		250		350	L	8000	L	8000
	NICKEL	UG/L		2		97		50		1767
	SELENIUM	UG/L	L	50	L	50		2		4
	SILVER	UG/L		1	L	5		57		67
	ZINC	UG/L		108		5427		2700		336667
NON-CONV. METALS	ALUMINUM	UG/L		288		2885		NOT RUN		NOT RUN
	BARIUM	UG/L		56		33		NOT RUN		NOT RUN
	CALCIUM	MG/L		39		125		NOT RUN		NOT RUN
	IRON	UG/L		546		1987		NOT RUN		NOT RUN
	MAGNESIUM	MG/L		8		7		NOT RUN		NOT RUN
	MANGANESE	UG/L		196		2347		NOT RUN		NOT RUN
	SODIUM	MG/L		36		124		NOT RUN		NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 31

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM	PRE CL. EFFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	144	12	92	19	2743	2796
	TOTAL SUSP. SOLIDS	MG/L	133	19	86	30	5628	5710
	COD	MG/L	403	92	77	84	11683	9467
	OIL & GREASE	MG/L	30	5	83	22	860	587
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	257	89	65	125	592	278
	TOTAL SOLIDS	MG/L	471	330	30	326	6154	6013
	TOTAL DISS. SOLIDS	MG/L	279	351		334	482	586
	SETTLEABLE SOLIDS	ML/L	11	L 1	91	L 1	605	772
	TOTAL VOLATILE SOLIDS	MG/L	204	71	65	72	4478	4626
	VOLATILE DISS. SOLIDS	MG/L	65	58	11	60	193	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	109	15	86	23	3648	4307
	AMMONIA NITROGEN	MG/L	5	5		6	11	11
	TOC	MG/L	83	25	70	25	902	1149
VOLATILES	BENZENE	UG/L	12	3	75	6	3	N-D
	1,2-DICHLOROETHANE	UG/L	1	N-D		N-D	2	0
	1,1,1-TRICHLOROETHANE	UG/L	22	4	82	5	21	N-D
	1,1-DICHLOROETHANE	UG/L	N-D	N-D		N-D	4	1
	1,1,2-TRICHLOROETHANE	UG/L	1	N-D		N-D	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	N-D	N-D		N-D	5	23
	CHLOROFORM	UG/L	6	1	83	1	7	N-D
	1,1-DICHLOROETHYLENE	UG/L	0	N-D		0	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	7	0	100	2	90	10
	ETHYLBENZENE	UG/L	6	N-D		3	15	N-D
	METHYLENE CHLORIDE	UG/L	1745	1692	3	1696	25	0
	DICHLORODIFLUOROMETHANE	UG/L	N-D	N-D		N-D	N-D	3
	TETRACHLOROETHYLENE	UG/L	55	8	85	8	N-D	N-D
	TOLUENE	UG/L	31	4	87	3	76	326
	TRICHLOROETHYLENE	UG/L	24	1	96	1	64	11
ACID EXTRACT	PENTACHLOROPHENOL	UG/L	0	1		0	N-D	N-D
	PHENOL	UG/L	59	0	100	N-D	505	N-D
BASE-NEUTRALS	ACENAPHTHENE	UG/L	7	N-D		N-D	N-D	N-D
	HEXACHLOROBENZENE	UG/L	N-D	N-D		N-D	N-D	15
	1,2-DICHLOROBENZENE	UG/L	N-D	N-D		N-D	5	N-D
	1,3-DICHLOROBENZENE	UG/L	85	N-D		N-D	N-D	N-D
	1,4-DICHLOROBENZENE	UG/L	N-D	N-D		N-D	11	N-D
	1,2-DIPHENYLHYDRAZINE	UG/L	N-D	0		N-D	N-D	N-D
	FLUORANTHENE	UG/L	0	N-D		N-D	42	8
	ISOPHORONE	UG/L	N-D	0		N-D	N-D	N-D
	NAPHTHALENE	UG/L	21	1	95	N-D	57	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	25	51		18	1595	1058
	BUTYL BENZYL PHTHALATE	UG/L	1	1		1	283	N-D
	DI-N-BUTYL PHTHALATE	UG/L	22	21	5	3	1940	304
	DIETHYL PHTHALATE	UG/L	6	2	67	0	11	16
	DIMETHYL PHTHALATE	UG/L	23	N-D		N-D	N-D	N-D
	1,2-BENZANTHRACENE	UG/L	N-D	N-D		1	N-D	N-D
	CHRYSENE	UG/L	N-D	N-D		1	46	5
	ANTHRACENE	UG/L	1	0	100	N-D	N-D	N-D
	PHENANTHRENE	UG/L	1	0	100	N-D	76	17

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 31

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM	PRE CL EFFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE
BASE-NEUTRALS	INDENO(1,2,3-C,D) PYRENE	UG/L	N-D	N-D		1	N-D	N-D
	PYRENE	UG/L	N-D	N-D		N-D	39	18
METALS	ANTIMONY	UG/L	9	5	44	4	138	128
	ARSENIC	UG/L	3	3		5	48	36
	BERYLLIUM	UG/L	L 1	L 1		L 1	5	L 24
	CADMIUM	UG/L	L 2	L 2		L 2	66	48
	CHROMIUM	UG/L	101	36	64	45	3200	3983
	COPPER	UG/L	221	49	78	64	3300	6850
	CYANIDE	UG/L	500	148	70	339	2495	1993
	LEAD	UG/L	16	L 40		L 40	4320	3700
	MERCURY	NG/L	833	L 1000		L 1000	1333	6167
	NICKEL	UG/L	5	2	60	3	118	87
	SELENIUM	UG/L	3	2	33	2	3	3
	SILVER	UG/L	5	1	80	2	150	200
	ZINC	UG/L	120	40	67	45	1928	1357
NON-CONV. METALS	ALUMINUM	UG/L	2165	255	88	354	NOT RUN	NOT RUN
	BARIUM	UG/L	53	19	64	21	NOT RUN	NOT RUN
	BORON	UG/L	411	301	27	314	NOT RUN	NOT RUN
	CALCIUM	MG/L	18	18		18	NOT RUN	NOT RUN
	IRON	UG/L	1266	727	43	956	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	3	3		3	NOT RUN	NOT RUN
	MANGANESE	UG/L	200	191	4	196	NOT RUN	NOT RUN
	SODIUM	MG/L	64	69		58	NOT RUN	NOT RUN
	TIN	UG/L	102	52	49	47	NOT RUN	NOT RUN
	TITANIUM	UG/L	19	2	89	3	NOT RUN	NOT RUN
	VANADIUM	UG/L	4	2	50	2	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 32

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	149	12	92	128	5200	2547
	TOTAL SUSP. SOLIDS	MG/L	109	15	86	65	13740	2007
	COD	MG/L	377	58	85	270	6833	7300
	OIL & GREASE	MG/L	49	6	88	33	733	694
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	96	44	54	82	512	504
	TOTAL SOLIDS	MG/L	474	346	27	406	4393	2665
	TOTAL DISS. SOLIDS	MG/L	303	320		293	NOT RUN	NOT RUN
	SETTLEABLE SOLIDS	ML/L	4	L 1	75	0	360	287
	TOTAL VOLATILE SOLIDS	MG/L	213	73	66	138	2620	1932
	TOTAL VOL. SUS. SOLIDS	MG/L	81	11	86	51	5580	1523
	AMMONIA NITROGEN	MG/L	7	3	57	6	12	5
	TOC	MG/L	89	22	75	73	619	646
VOLATILES	BENZENE	UG/L	47	15	68	44	N-D	1
	1,2-DICHLOROETHANE	UG/L	N-D	N-D		N-D	1	N-D
	1,1,1-TRICHLOROETHANE	UG/L	225	1	100	18	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	N-D	N-D		N-D	11	N-D
	CHLOROFORM	UG/L	6	4	33	2	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	11	N-D		8	12	N-D
	ETHYLBENZENE	UG/L	15	N-D		N-D	30	1
	METHYLENE CHLORIDE	UG/L	11827	10483	11	21108	14	1
	TRICHLOROFLUOROMETHANE	UG/L	0	0		0	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	2	N-D		3	1	N-D
	TOLUENE	UG/L	7	2	71	12	2802	1306
	TRICHLOROETHYLENE	UG/L	6	N-D		2	5	N-D
ACID EXTRACT	PENTACHLOROPHENOL	UG/L	0	N-D		N-D	2	14
	PHENOL	UG/L	N-D	N-D		0	72	53
BASE-NEUTRALS	ACENAPHTHENE	UG/L	1	N-D		N-D	N-D	N-D
	1,2,4-TRICHLOROBENZENE	UG/L	767	61	92	529	606	168
	HEXACHLOROBENZENE	UG/L	0	N-D		N-D	N-D	N-D
	2-CHLORONAPHTHALENE	UG/L	1	N-D		N-D	N-D	N-D
	1,2-DICHLOROBENZENE	UG/L	18	1	94	8	1	N-D
	1,3-DICHLOROBENZENE	UG/L	1	N-D		N-D	N-D	N-D
	1,4-DICHLOROBENZENE	UG/L	16	N-D		9	1	N-D
	1,2-DIPHENYLHYDRAZINE	UG/L	1	N-D		1	N-D	N-D
	FLUORANTHENE	UG/L	2	N-D		N-D	1	3
	4-BROMOPHENYL PHENYL ETHER	UG/L	1	N-D		N-D	N-D	N-D
	ISOPHORONE	UG/L	2	N-D		N-D	N-D	N-D
	NAPHTHALENE	UG/L	17	1	94	7	5	N-D
	N-NITROSODIPHENYLAMINE	UG/L	4	N-D		1	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	54	10	81	99	926	899
	BUTYL BENZYL PHTHALATE	UG/L	19	N-D		3	2	5
	DI-N-BUTYL PHTHALATE	UG/L	14	3	79	9	N-D	8
	DI-N-OCTYL PHTHALATE	UG/L	5	N-D		9	27	24
	DIETHYL PHTHALATE	UG/L	25	1	96	11	2	1
	DIMETHYL PHTHALATE	UG/L	3	N-D		0	N-D	N-D
	1,2-BENZANTHRACENE	UG/L	4	N-D		N-D	1	3
	CHRYSENE	UG/L	4	N-D		N-D	1	3
	ANTHRACENE	UG/L	4	N-D		2	2	N-D

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 32

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
BASE-NEUTRALS	FLUORENE	UG/L	1	N-D		N-D	N-D	N-D
	PHENANTHRENE	UG/L	4	N-D		2	2	N-D
	PYRENE	UG/L	2	N-D		N-D	2	10
METALS	ANTIMONY	UG/L	L 10	L 10		L 10	3	3
	ARSENIC	UG/L	L 10	L 10		L 10	56	55
	CADMIUM	UG/L	L 5	L 5		L 5	100	15
	CHROMIUM	UG/L	109	51	53	99	2617	2260
	COPPER	UG/L	105	45	57	85	2517	2360
	CYANIDE	UG/L	452	322	29	334	2953	1666
	LEAD	UG/L	51	L 50	2	25	1992	2214
	MERCURY	NG/L	L 300	L 300		L 300	10000	18000
	NICKEL	UG/L	86	70	19	78	937	792
	SELENIUM	UG/L	L 10	L 10		L 10	4	5
	SILVER	UG/L	6	2	67	6	253	444
	ZINC	UG/L	232	130	44	198	2750	1644
NON-CONV. METALS	ALUMINUM	UG/L	1912	373	80	962	NOT RUN	NOT RUN
	BARIUM	UG/L	89	23	74	82	NOT RUN	NOT RUN
	BORON	UG/L	116	93	20	122	NOT RUN	NOT RUN
	CALCIUM	MG/L	13	20		20	NOT RUN	NOT RUN
	COBALT	UG/L	1	L 5		L 5	NOT RUN	NOT RUN
	IRON	UG/L	1997	368	82	1318	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	2	5		2	NOT RUN	NOT RUN
	MANGANESE	UG/L	200	125	38	152	NOT RUN	NOT RUN
	SODIUM	MG/L	62	68		65	NOT RUN	NOT RUN
	TIN	UG/L	24	L 10	58	5	NOT RUN	NOT RUN
	TITANIUM	UG/L	23	2	91	19	NOT RUN	NOT RUN
	VANADIUM	UG/L	5	L 5		3	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 33

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	120	9	92	104	53837	27067
	TOTAL SUSP. SOLIDS	MG/L	33	14	58	17	28709	17233
	COD	MG/L	252	39	85	188	84667	37233
	OIL & GREASE	MG/L	46	7	85	23	8350	4773
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	186	53	72	262	3590	1086
	TOTAL SOLIDS	MG/L	885	795	10	826	66199	31604
	TOTAL DISS. SOLIDS	MG/L	779	786		755	6097	6138
	SETTLEABLE SOLIDS	ML/L	4	L 1	75	2	1000	992
	TOTAL VOLATILE SOLIDS	MG/L	495	389	21	445	42262	16677
	VOLATILE DISS. SOLIDS	MG/L	165	133	19	136	4514	4162
	TOTAL VOL. SUS. SOLIDS	MG/L	20	8	60	11	19455	10584
	AMMONIA NITROGEN	MG/L	12	10	17	11	49	189
	TOC	MG/L	34	21	38	42	6189	3511
VOLATILES	BENZENE	UG/L	1	L 1		0	43	10
	1,1,1-TRICHLOROETHANE	UG/L	1	L 1		6	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	L 1	L 1		L 1	34	N-D
	CHLOROFORM	UG/L	1	1		1	12	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	L 1	L 1		L 1	223	N-D
	ETHYLBENZENE	UG/L	1	L 1		1	48	20
	METHYLENE CHLORIDE	UG/L	2	3		3	69	6
	TETRACHLOROETHYLENE	UG/L	2	1	50	3	6	17
	TOLUENE	UG/L	5	0	100	6	151	1355
	TRICHLOROETHYLENE	UG/L	3	L 1	67	13	48	2
ACID EXTRACT	PENTACHLOROPHENOL	UG/L	4	3	25	6	238	160
	PHENOL	UG/L	2	0	100	3	38	14
BASE-NEUTRALS	1,4-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	93	6
	FLUORANTHENE	UG/L	L 4	L 4		L 4	121	12
	NAPHTHALENE	UG/L	L 3	L 3		L 3	40	5
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	7	1	86	5	3205	962
	BUTYL BENZYL PHTHALATE	UG/L	2	L 3		L 3	397	51
	DI-N-BUTYL PHTHALATE	UG/L	4	L 4		1	189	32
	DIETHYL PHTHALATE	UG/L	L 5	L 5		L 5	N-D	1
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	2	1
	3,4-BENZOFLUORANTHENE	UG/L	L 5	L 5		L 5	1	1
	11,12-BENZOFLUORANTHENE	UG/L	L 5	L 5		L 5	1	1
	CHRYSENE	UG/L	L 5	L 5		L 5	2	1
	ANTHRACENE	UG/L	L 5	L 5		L 5	87	3
	PHENANTHRENE	UG/L	L 5	L 5		L 5	87	3
	PYRENE	UG/L	L 4	L 4		L 4	58	28
PESTICIDES	ALPHA-ENDOSULFAN	NG/L	78	L 150		L 150	N-D	N-D
	HEPTACHLOR	NG/L	22	L 100		17	N-D	N-D
	ALPHA-BHC	NG/L	L 200	16		L 50	N-D	N-D
	BETA-BHC	NG/L	L 200	30		L 50	N-D	N-D
	GAMMA-BHC	NG/L	71	77		73	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	80	22
	ARSENIC	UG/L	L 50	L 50		L 50	318	228
	CADMIUM	UG/L	L 2	L 2		L 2	42	13

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 33

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	CHROMIUM	UG/L	1	L 5		5	1733	600
	COPPER	UG/L	39	1	97	32	13017	665
	CYANIDE	UG/L	2003	84	96	1117	22017	13633
	LEAD	UG/L	L 50	L 50		L 50	8733	3217
	MERCURY	NG/L	L 200	L 200		L 200	11333	L 4000
	NICKEL	UG/L	L 10	L 10		L 10	390	12
	SELENIUM	UG/L	L 50	L 50		L 50	29	27
	SILVER	UG/L	L 5	L 5		L 5	415	282
	ZINC	UG/L	103	L 20	81	83	34500	2695
NON-CONV. METALS	ALUMINUM	UG/L	458	1336		379	NOT RUN	NOT RUN
	BARIUM	UG/L	120	26	78	67	NOT RUN	NOT RUN
	CALCIUM	MG/L	86	83	3	82	NOT RUN	NOT RUN
	IRON	UG/L	703	157	78	704	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	26	25	4	25	NOT RUN	NOT RUN
	MANGANESE	UG/L	44	39	11	43	NOT RUN	NOT RUN
	SODIUM	MG/L	109	111		104	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 34

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	264	4	98	163	16439	13433
	TOTAL SUSP. SOLIDS	MG/L	104	11	89	44	31570	3068
	COD	MG/L	657	78	88	392	73500	7317
	OIL & GREASE	MG/L	55	3	95	20	7900	175
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	361	54	85	222	571	130
	TOTAL SOLIDS	MG/L	1514	1230	19	1277	50300	7374
	TOTAL DISS. SOLIDS	MG/L	1108	1125		934	10433	3724
	SETTLEABLE SOLIDS	ML/L	8	L 1	88	L 1	954	859
	TOTAL VOLATILE SOLIDS	MG/L	404	249	38	409	26773	4700
	VOLATILE DISS. SOLIDS	MG/L	203	168	17	137	7237	2592
	TOTAL VOL. SUS. SOLIDS	MG/L	61	5	92	24	21365	2673
	AMMONIA NITROGEN	MG/L	21	4	81	15	44	4
	TOC	MG/L	93	22	76	88	5898	404
VOLATILES	BENZENE	UG/L	L 1	L 1		2	5	0
	1,1,1-TRICHLOROETHANE	UG/L	2	L 1	50	4	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	1	L 1		1	6	N-D
	1,1,2-TRICHLOROETHANE	UG/L	L 1	L 1		0	N-D	N-D
	CHLOROETHANE	UG/L	L 25	1		2	N-D	N-D
	CHLOROFORM	UG/L	0	3		1	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	9	L 1	89	4	492	2
	ETHYLBENZENE	UG/L	1	L 1		2	56	N-D
	METHYLENE CHLORIDE	UG/L	5	2	60	9	4	N-D
	DICHLOROBROMOMETHANE	UG/L	L 1	1		L 1	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	5	2	60	8	N-D	0
	TOLUENE	UG/L	5	0	100	6	135	7
	TRICHLOROETHYLENE	UG/L	39	L 1	97	33	N-D	N-D
ACID EXTRACT	PENTACHLOROPHENOL	UG/L	L 5	L 5		L 5	N-D	3
	PHENOL	UG/L	7	L 1	86	5	121	409
BASE-NEUTRALS	1,2-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	22	N-D
	1,3-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	7	N-D
	1,4-DICHLOROBENZENE	UG/L	1	L 5		L 5	64	N-D
	FLUORANTHENE	UG/L	L 4	L 4		L 4	58	0
	NAPHTHALENE	UG/L	L 3	L 3		L 3	30	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	9	4	56	1	985	248
	BUTYL BENZYL PHTHALATE	UG/L	3	L 3		L 3	144	1
	DI-N-OCTYL PHTHALATE	UG/L	L 5	L 5		L 5	2	1
	DIETHYL PHTHALATE	UG/L	1	L 5		2	N-D	1
	DIMETHYL PHTHALATE	UG/L	L 5	L 5		L 5	N-D	1
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	28	0
	BENZO (A)PYRENE	UG/L	L 10	L 10		L 10	N-D	0
	3,4-BENZOFLUORANTHENE	UG/L	L 5	L 5		L 5	0	N-D
	11,12-BENZOFLUORANTHENE	UG/L	L 5	L 5		L 5	0	N-D
	CHRYSENE	UG/L	L 5	L 5		L 5	28	0
	ANTHRACENE	UG/L	L 10	L 10		L 10	104	N-D
	FLUORENE	UG/L	L 5	L 5		L 5	3	N-D
	PHENANTHRENE	UG/L	L 10	L 10		L 10	104	N-D
	PYRENE	UG/L	L 4	L 4		L 4	55	0

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 34

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM		PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
PESTICIDES	GAMMA-BHC	NG/L	L	200		14		L	100	N-D	N-D
METALS	ANTIMONY	UG/L	L	50	L	50		L	50	36	5
	ARSENIC	UG/L	L	50	L	50		L	50	180	25
	CADMIUM	UG/L		4	L	2	50	L	2	4	5
	CHROMIUM	UG/L		427		28	93		275	5050	1655
	COPPER	UG/L		152		27	82		65	7033	1880
	CYANIDE	UG/L		1323		382	71		689	33650	2532
	LEAD	UG/L		132	L	50	62		81	11000	5017
	MERCURY	NG/L		983		133	86		417	8333	500
	NICKEL	UG/L		1097		206	81		245	11635	2207
	SELENIUM	UG/L	L	50	L	50		L	50	10	7
	SILVER	UG/L		6	L	5	17		3	190	79
	ZINC	UG/L		283		44	84		101	30050	8700
NON-CONV. METALS	ALUMINUM	UG/L		1948		71	96		542	NOT RUN	NOT RUN
	BARIUM	UG/L		170		43	75		91	NOT RUN	NOT RUN
	CALCIUM	MG/L		124		112	10		116	NOT RUN	NOT RUN
	IRON	UG/L		3750		75	98		965	NOT RUN	NOT RUN
	MAGNESIUM	MG/L		37		36	3		37	NOT RUN	NOT RUN
	MANGANESE	UG/L		195		45	77		139	NOT RUN	NOT RUN
	SODIUM	MG/L		227		226			229	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 35

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	222	42	81	29000	12813
	TOTAL SUSP. SOLIDS	MG/L	147	22	85	62857	22537
	COD	MG/L	498	148	70	80333	26250
	OIL & GREASE	MG/L	49	3	94	8433	1210
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	53	32	40	1816	262
	TOTAL SOLIDS	MG/L	959	687	28	46761	28838
	TOTAL DISS. SOLIDS	MG/L	614	546	11	6436	3186
	SETTLEABLE SOLIDS	ML/L	4	L 1	75	1000	714
	TOTAL VOLATILE SOLIDS	MG/L	254	134	47	3530	30410
	VOLATILE DISS. SOLIDS	MG/L	153	116	24	3857	2451
	TOTAL VOL. SUS. SOLIDS	MG/L	96	14	85	34286	14383
	AMMONIA NITROGEN	MG/L	11	10	9	171	28
	TOC	MG/L	82	27	67	4361	2060
VOLATILES	BENZENE	UG/L	2	L 1	50	N-D	2
	1,2-DICHLOROETHANE	UG/L	10	L 1	90	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	8	L 1	88	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	3	2	33	N-D	N-D
	CHLOROFORM	UG/L	10	0	100	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	14	1	93	19	12
	1,2-DICHLOROPROPANE	UG/L	1	L 1		N-D	N-D
	ETHYLBENZENE	UG/L	7	0	100	150	9
	METHYLENE CHLORIDE	UG/L	34	39		8	34
	TETRACHLOROETHYLENE	UG/L	3	L 1	67	N-D	N-D
	TOLUENE	UG/L	19	2	89	145902	3359
	TRICHLOROETHYLENE	UG/L	7	0	100	20	8
ACID EXTRACT	PENTACHLOROPHENOL	UG/L	4	L 5		N-D	N-D
	PHENOL	UG/L	2	L 1	50	N-D	N-D
BASE-NEUTRALS	1,2-DICHLOROBENZENE	UG/L	3	L 5		413	7
	1,3-DICHLOROBENZENE	UG/L	L 5	L 5		107	4
	FLUORANTHENE	UG/L	L 4	L 4		143	10
	NAPHTHALENE	UG/L	L 3	L 3		72	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	12	L 3	75	8177	2790
	BUTYL BENZYL PHTHALATE	UG/L	3	L 3		453	N-D
	DI-N-BUTYL PHTHALATE	UG/L	4	L 4		N-D	N-D
	DIETHYL PHTHALATE	UG/L	2	L 5		N-D	N-D
	PYRENE	UG/L	L 4	L 4		190	22
METALS	ANTIMONY	UG/L	L 50	L 50		142	19
	ARSENIC	UG/L	L 50	L 50		500	104
	CADMIUM	UG/L	1	1		468	516
	CHROMIUM	UG/L	163	22	87	20933	4100
	COPPER	UG/L	82	36	56	20667	5350
	CYANIDE	UG/L	1753	227	87	13067	17225
	LEAD	UG/L	45	L 50		41333	7175
	MERCURY	NG/L	1050	150	86	L 44000	L 6000
	NICKEL	UG/L	L 10	L 10		16467	4045
	SELENIUM	UG/L	L 50	L 50		L 110	17
	SILVER	UG/L	L 5	L 5		537	388

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 35

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	THALLIUM	UG/L	L 100	L 100		L 190	1
	ZINC	UG/L	261	87	67	75667	12475
NON-CONV. METALS	ALUMINUM	UG/L	1523	326	79	NOT RUN	NOT RUN
	BARIUM	UG/L	124	46	63	NOT RUN	NOT RUN
	CALCIUM	MG/L	77	70	9	NOT RUN	NOT RUN
	IRON	UG/L	2373	783	67	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	26	25	4	NOT RUN	NOT RUN
	MANGANESE	UG/L	387	325	16	NOT RUN	NOT RUN
	SODIUM	MG/L	100	93	7	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 36

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	435	87	80	346	26833	10567
	TOTAL SUSP. SOLIDS	MG/L	327	38	88	238	42423	4110
	COD	MG/L	975	222	77	830	72833	5533
	OIL & GREASE	MG/L	90	3	97	43	9292	139
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	941	214	77	1047	1535	365
	TOTAL SOLIDS	MG/L	1513	1165	23	1373	54567	4802
	TOTAL DISS. SOLIDS	MG/L	1018	1047		1014	4955	2015
	SETTLEABLE SOLIDS	ML/L	9	0	100	3	973	939
	TOTAL VOLATILE SOLIDS	MG/L	359	225	37	277	26975	2545
	VOLATILE DISS. SOLIDS	MG/L	196	204		209	2849	1128
	TOTAL VOL. SUS. SOLIDS	MG/L	199	26	87	136	26359	3137
	AMMONIA NITROGEN	MG/L	20	13	35	20	26	14
	TOC	MG/L	183	50	73	190	1617	467
VOLATILES	BENZENE	UG/L	14	2	86	13	28	2
	CHLOROBENZENE	UG/L	1	L 1		1	33	0
	1,1,1-TRICHLOROETHANE	UG/L	43	2	95	21	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	1	N-D		L 1	71	N-D
	CHLOROFORM	UG/L	77	24	69	49	27	9
	1,2-TRANS-DICHLOROETHYLENE	UG/L	2	L 1	50	2	74	N-D
	ETHYLBENZENE	UG/L	139	1	99	17	402	5
	METHYLENE CHLORIDE	UG/L	1600	13	99	33	67	7
	DICHLOROBROMOMETHANE	UG/L	L 1	L 1		N-D	2	N-D
	TRICHLOROFLUOROMETHANE	UG/L	L 1	N-D		L 1	6	N-D
	DICHLORODIFLUOROMETHANE	UG/L	N-D	N-D		N-D	7	2
	TETRACHLOROETHYLENE	UG/L	81	2	98	39	360	23
	TOLUENE	UG/L	782	56	93	396	2099	67
	TRICHLOROETHYLENE	UG/L	10	0	100	5	1189	2
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	UG/L	3	2	33	1	N-D	N-D
	2,4-DICHLOROPHENOL	UG/L	2	2		2	N-D	N-D
	2,4-DIMETHYLPHENOL	UG/L	N-D	3		L 1	N-D	N-D
	PENTACHLOROPHENOL	UG/L	6	3	50	6	N-D	N-D
	PHENOL	UG/L	448	25	94	413	152	34
BASE-NEUTRALS	ACENAPHTHENE	UG/L	N-D	2		N-D	N-D	N-D
	1,2,4-TRICHLOROBENZENE	UG/L	100	8	92	101	3400	16
	1,2-DICHLOROBENZENE	UG/L	7	1	86	10	N-D	N-D
	1,3-DICHLOROBENZENE	UG/L	0	N-D		L 1	132	N-D
	1,4-DICHLOROBENZENE	UG/L	4	L 1	75	5	190	N-D
	FLUORANTHENE	UG/L	0	L 1		N-D	182	N-D
	NAPHTHALENE	UG/L	55	8	85	74	946	10
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	14	8	43	47	5328	267
	BUTYL BENZYL PHTHALATE	UG/L	3	1	67	4	480	N-D
	DI-N-BUTYL PHTHALATE	UG/L	4	2	50	4	435	N-D
	DIETHYL PHTHALATE	UG/L	6	3	50	9	N-D	N-D
	DIMETHYL PHTHALATE	UG/L	N-D	1		N-D	N-D	N-D
	1,2-BENZANTHRACENE	UG/L	N-D	N-D		N-D	65	N-D
	CHRYSENE	UG/L	N-D	N-D		N-D	65	N-D
	ANTHRACENE	UG/L	1	N-D		N-D	348	8
	PHENANTHRENE	UG/L	3	0	100	3	348	8
	PYRENE	UG/L	0	L 1		N-D	223	N-D

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 36

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
PESTICIDES	ALPHA-ENDOSULFAN	NG/L	617	L 1000		N-D	N-D	N-D
	ALPHA-BHC	NG/L	733	L 1000		L 1000	N-D	N-D
	GAMMA-BHC	NG/L	967	233	76	633	N-D	N-D
METALS	ANTIMONY	UG/L	12	6	50	7	95	19
	ARSENIC	UG/L	9	4	56	7	247	23
	BERYLLIUM	UG/L	0	L 1		0	90	27
	CADMIUM	UG/L	10	6	40	9	84	6
	CHROMIUM	UG/L	226	39	83	245	5550	1213
	COPPER	UG/L	123	10	92	84	9167	460
	CYANIDE	UG/L	4747	115	98	3250	43750	2542
	LEAD	UG/L	136	64	53	111	12383	518
	MERCURY	NG/L	333	L 1000		L 1000	35167	5333
	NICKEL	UG/L	98	82	16	135	2517	204
	SELENIUM	UG/L	3	3		3	3	5
	SILVER	UG/L	21	2	90	58	862	143
	THALLIUM	UG/L	1	1		1	L 170	L 37
	ZINC	UG/L	486	94	81	490	30667	3383
NON-CONV. METALS	ALUMINUM	UG/L	7330	859	88	6155	NOT RUN	NOT RUN
	BARIUM	UG/L	173	32	82	143	NOT RUN	NOT RUN
	BORON	UG/L	224	315		227	NOT RUN	NOT RUN
	CALCIUM	MG/L	44	35	20	41	NOT RUN	NOT RUN
	COBALT	UG/L	24	23	4	42	NOT RUN	NOT RUN
	IRON	UG/L	4267	496	88	3170	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	9	8	11	8	NOT RUN	NOT RUN
	MANGANESE	UG/L	225	125	44	223	NOT RUN	NOT RUN
	MOLYBDENUM	UG/L	13	L 35		6	NOT RUN	NOT RUN
	SODIUM	MG/L	357	352	1	337	NOT RUN	NOT RUN
	TIN	UG/L	67	56	16	53	NOT RUN	NOT RUN
	TITANIUM	UG/L	46	1	98	36	NOT RUN	NOT RUN
	VANADIUM	UG/L	5	0	100	4	NOT RUN	NOT RUN
	YTTRIUM	UG/L	3	L 4		5	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 37
ACTIVATED SLUDGE PROCESS

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	303	25	92	221	20183	9083
	TOTAL SUSP. SOLIDS	MG/L	206	7	97	57	36587	3703
	COD	MG/L	533	82	85	293	91600	8400
	OIL & GREASE	MG/L	39	5	87	19	5733	108
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	48	8	83	32	328	14
	TOTAL SOLIDS	MG/L	1310	1082	17	1169	53478	5747
	TOTAL DISS. SOLIDS	MG/L	1117	1020	9	1040	13991	NOT RUN
	SETTLEABLE SOLIDS	ML/L	9	L 1	89	3	833	954
	TOTAL VOLATILE SOLIDS	MG/L	353	184	48	249	32535	4086
	VOLATILE DISS. SOLIDS	MG/L	241	157	35	205	6555	2875
	TOTAL VOL. SUS. SOLIDS	MG/L	172	5	97	51	29894	2852
	AMMONIA NITROGEN	MG/L	23	16	30	25	129	51
	TOC	MG/L	98	16	84	95	7200	1007
VOLATILES	BENZENE	UG/L	12	L 1	92	9	29	N-D
	CHLOROBENZENE	UG/L	L 1	L 1		L 1	3	N-D
	1,2-DICHLOROETHANE	UG/L	0	L 1		L 1	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	125	12	90	117	316	17
	1,1-DICHLOROETHANE	UG/L	4	L 1	75	5	49	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 1	L 1		L 1	841	11
	CHLOROFORM	UG/L	7	2	71	6	15	2
	1,1-DICHLOROETHYLENE	UG/L	2	L 1	50	1	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	0	L 1		1	35	N-D
	1,2-DICHLOROPROPANE	UG/L	L 1	L 1		2	N-D	N-D
	ETHYLBENZENE	UG/L	9	7	22	8	114	N-D
	METHYLENE CHLORIDE	UG/L	150	46	69	135	569	50
	DICHLOROBROMOMETHANE	UG/L	L 1	L 1		L 1	1	N-D
	DICHLORODIFLUOROMETHANE	UG/L	7	L 20		12	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	45	13	71	34	733	27
	TOLUENE	UG/L	54	1	98	48	302	N-D
	TRICHLOROETHYLENE	UG/L	85	2	98	86	493	18
ACID EXTRACT	PHENOL	UG/L	5	L 1	80	7	N-D	316
BASE-NEUTRALS	1,2-DICHLOROBENZENE	UG/L	1	L 5		2	N-D	N-D
	1,3-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	41	N-D
	1,4-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	67	N-D
	FLUORANTHENE	UG/L	L 4	L 4		L 4	19	30
	BIS(2-CHLOROETHYOXY) METHANE	UG/L	L 10	L 10		5	N-D	N-D
	NAPHTHALENE	UG/L	1	L 3		1	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	22	1	95	26	4563	358
	BUTYL BENZYL PHTHALATE	UG/L	2	L 3		L 3	1075	N-D
	DI-N-BUTYL PHTHALATE	UG/L	67	2	97	86	4733	147
	DIETHYL PHTHALATE	UG/L	3	L 5		L 5	N-D	3
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	43	7
	CHRYSENE	UG/L	L 5	L 5		L 5	43	7
	ACENAPHTHYLENE	UG/L	L 10	L 10		L 10	N-D	5
	ANTHRACENE	UG/L	L 10	L 10		L 10	78	51
	PHENANTHRENE	UG/L	L 10	L 10		L 10	78	51
	PYRENE	UG/L	L 4	L 4		L 4	19	22

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 37
ACTIVATED SLUDGE PROCESS

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
PESTICIDES	HEPTACHLOR	NG/L	33	L 100		L 400	N-D	N-D
	ALPHA-BHC	NG/L	L 200	3		L 200	N-D	N-D
	GAMMA-BHC	NG/L	77	65	16	83	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	25	2
	ARSENIC	UG/L	L 50	L 50		L 50	48	4
	CADMIUM	UG/L	67	2	97	31	6567	1168
	CHROMIUM	UG/L	132	26	80	90	10833	3117
	COPPER	UG/L	358	14	96	204	38500	8967
	CYANIDE	UG/L	267	113	58	230	5517	613
	LEAD	UG/L	91	L 50	45	9	17017	1800
	MERCURY	NG/L	550	133	76	367	L 37000	2167
	NICKEL	UG/L	108	56	48	83	1800	850
	SELENIUM	UG/L	L 5	L 5		L 5	22	7
	SILVER	UG/L	16	L 5	69	9	6167	347
	ZINC	UG/L	352	55	84	157	30833	5200
NON-CONV. METALS	ALUMINUM	UG/L	1452	82	94	586	NOT RUN	NOT RUN
	BARIUM	UG/L	155	58	63	99	NOT RUN	NOT RUN
	CALCIUM	MG/L	77	71	8	72	NOT RUN	NOT RUN
	IRON	UG/L	1289	89	93	584	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	22	22		22	NOT RUN	NOT RUN
	MANGANESE	UG/L	46	28	39	35	NOT RUN	NOT RUN
	SODIUM	MG/L	215	216		209	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 37
TRICKLING FILTER PROCESS

FRACTION	PARAMETER	UNITS	INFLUENT	TRCK FILT EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	HUMUS
CONVENTIONALS	BOD	MG/L	303	90	70	221	20183	9850
	TOTAL SUSP. SOLIDS	MG/L	206	22	89	57	36587	1348
	COD	MG/L	533	147	72	293	91600	3717
	OIL & GREASE	MG/L	39	6	85	19	5733	81
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	48	7	85	32	328	17
	TOTAL SOLIDS	MG/L	1310	1108	15	1169	53478	2745
	TOTAL DISS. SOLIDS	MG/L	1117	1020	9	1040	13991	1990
	SETTLEABLE SOLIDS	ML/L	9	L 1	89	3	833	63
	TOTAL VOLATILE SOLIDS	MG/L	353	185	48	249	32535	1379
	VOLATILE DISS. SOLIDS	MG/L	241	172	29	205	6555	460
	TOTAL VOL. SUS. SOLIDS	MG/L	172	19	89	51	29894	999
	AMMONIA NITROGEN	MG/L	23	21	9	25	129	47
	TOC	MG/L	98	32	67	95	7200	362
VOLATILES	BENZENE	UG/L	12	L 1	92	9	29	N-D
	CHLOROBENZENE	UG/L	L 1	L 1		L 1	3	N-D
	1,2-DICHLOROETHANE	UG/L	0	L 1		L 1	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	125	2	98	117	316	2
	1,1-DICHLOROETHANE	UG/L	4	L 1	75	5	49	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 1	L 1		L 1	841	0
	CHLOROFORM	UG/L	7	L 1	86	6	15	0
	1,1-DICHLOROETHYLENE	UG/L	2	L 1	50	1	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	0	L 1		1	35	N-D
	1,2-DICHLOROPROPANE	UG/L	L 1	L 1		2	N-D	N-D
	ETHYLBENZENE	UG/L	9	0	100	8	114	N-D
	METHYLENE CHLORIDE	UG/L	150	16	89	135	569	18
	DICHLOROBROMOMETHANE	UG/L	L 1	L 1		L 1	1	N-D
	DICHLORODIFLUOROMETHANE	UG/L	7	L 20		12	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	45	3	93	34	733	2
	TOLUENE	UG/L	54	L 1	98	48	302	1
	TRICHLOROETHYLENE	UG/L	85	0	100	86	493	0
ACID EXTRACT	PENTACHLOROPHENOL	UG/L	L 5	L 5		L 5	N-D	43
	PHENOL	UG/L	5	L 1	80	7	N-D	52
BASE-NEUTRALS	1,2-DICHLOROBENZENE	UG/L	1	L 5		2	N-D	N-D
	1,3-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	41	N-D
	1,4-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	67	N-D
	FLUORANTHENE	UG/L	L 4	L 4		L 4	19	48
	BIS(2-CHLOROETHYOXY) METHANE	UG/L	L 10	L 10		5	N-D	N-D
	NAPHTHALENE	UG/L	1	L 3		1	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	22	8	64	26	4563	255
	BUTYL BENZYL PHTHALATE	UG/L	2	L 3		L 3	1075	N-D
	DI-N-BUTYL PHTHALATE	UG/L	67	2	97	86	4733	103
	DIETHYL PHTHALATE	UG/L	3	L 5		L 5	N-D	N-D
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	43	9
	CHRYSENE	UG/L	L 5	L 5		L 5	43	9
	ACENAPHTHYLENE	UG/L	L 10	L 10		L 10	N-D	4
	ANTHRACENE	UG/L	L 10	L 10		L 10	78	148
	PHENANTHRENE	UG/L	L 10	L 10		L 10	78	148
	PYRENE	UG/L	L 4	L 4		L 4	19	33

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 37
TRICKLING FILTER PROCESS

FRACTION	PARAMETER	UNITS	INFLUENT	TRCK FILT EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	PRIMARY SLUDGE	HUMUS
PESTICIDES	HEPTACHLOR	NG/L	33	L 100		L 400	N-D	N-D
	HEPTACHLOR EPOXIDE	NG/L	L 400	17		L 400	N-D	N-D
	GAMMA-BHC	NG/L	77	53	31	83	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	25	3
	ARSENIC	UG/L	L 50	L 50		L 50	48	6
	CADMIUM	UG/L	67	16	76	31	6567	433
	CHROMIUM	UG/L	132	57	57	90	10833	2000
	COPPER	UG/L	358	119	67	204	38500	4133
	CYANIDE	UG/L	267	113	58	230	5517	367
	LEAD	UG/L	91	L 50	45	9	17017	1065
	MERCURY	NG/L	550	267	51	367	L 37000	L 5000
	NICKEL	UG/L	108	70	35	83	1800	127
	SELENIUM	UG/L	L 5	L 5		L 5	22	2
	SILVER	UG/L	16	4	75	9	6167	179
	ZINC	UG/L	352	95	73	157	30833	3170
NON-CONV. METALS	ALUMINUM	UG/L	1452	319	78	586	NOT RUN	NOT RUN
	BARIUM	UG/L	155	72	54	99	NOT RUN	NOT RUN
	CALCIUM	MG/L	77	71	8	72	NOT RUN	NOT RUN
	IRON	UG/L	1289	313	76	584	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	22	22		22	NOT RUN	NOT RUN
	MANGANESE	UG/L	46	30	35	35	NOT RUN	NOT RUN
	SODIUM	MG/L	215	217		209	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 38

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	TERTIARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONV.	BOD	MG/L	292	19	93	237	7	6317	5800
	TOTAL SUSP. SOLIDS	MG/L	156	5	97	87	3	3870	2482
	COD	MG/L	741	46	94	518	39	10733	3933
	OIL & GREASE	MG/L	66	6	91	35	10	926	83
NON-CONV.	TOTAL PHENOLS	UG/L	695	22	97	623	24	845	48
	TOTAL SOLIDS	MG/L	1060	791	25	913	808	6009	3381
	TOTAL DISS. SOLIDS	MG/L	942	782	17	856	804	3612	2942
	SETTLEABLE SOLIDS	ML/L	4	L 1	75	1	L 1	825	667
	TOTAL VOLATILE SOLIDS	MG/L	277	134	52	212	121	4322	2152
	VOLATILE DISS. SOLIDS	MG/L	250	160	36	197	152	3376	1640
	TOTAL VOL. SUS. SOLIDS	MG/L	106	3	97	68	2	2804	1828
	AMMONIA NITROGEN	MG/L	23	8	65	17	9	40	24
	TOC	MG/L	123	12	90	118	11	1317	1363
VOLATILES	BENZENE	UG/L	191	1	99	124	1	203	1
	CARBON TETRACHLORIDE	UG/L	L 1	0		L 1	L 1	2	N-D
	CHLOROBENZENE	UG/L	L 1	L 1		0	L 1	2	1
	1,2-DICHLOROETHANE	UG/L	L 1	1		0	1	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	130	5	96	93	2	174	N-D
	1,1-DICHLOROETHANE	UG/L	2	L 1	50	2	L 1	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	5	0	100	1	L 1	N-D	N-D
	CHLOROFORM	UG/L	17	2	88	16	4	12	1
	1,1-DICHLOROETHYLENE	UG/L	3	L 1	67	1	L 1	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	5	1	80	9	L 1	12	N-D
	ETHYLBENZENE	UG/L	97	9	91	81	1	194	1
	METHYLENE CHLORIDE	UG/L	75	17	77	88	32	132	30
	METHYL CHLORIDE	UG/L	10	L 25		L 25	L 25	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	25	18	28	8	13	118	7
	TOLUENE	UG/L	672	31	95	440	3	921	7
	TRICHLOROETHYLENE	UG/L	258	1	100	128	1	346	20
ACIDS	2,4-DIMETHYLPHENOL	UG/L	4	L 2	50	3	1	N-D	N-D
	PENTACHLOROPHENOL	UG/L	L 5	1		3	1	42	N-D
	PHENOL	UG/L	186	L 1	99	132	L 1	301	63
BASE-NEUT.	1,2-DICHLOROBENZENE	UG/L	L 5	L 5		L 5	L 5	32	N-D
	1,3-DICHLOROBENZENE	UG/L	L 5	L 5		1	L 5	30	N-D
	1,4-DICHLOROBENZENE	UG/L	L 5	L 5		2	L 5	N-D	N-D
	2,4-DINITROTOLUENE	UG/L	L 10	L 10		1	L 10	N-D	N-D
	1,2-DIPHENYLHYDRAZINE	UG/L	L 10	L 10		1	L 10	N-D	N-D
	FLUORANTHENE	UG/L	L 4	L 4		L 4	L 4	15	6
	NAPHTHALENE	UG/L	29	L 3	90	18	1	255	N-D
	NITROBENZENE	UG/L	L 10	L 10		70	L 10	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	19	7	63	23	4	623	150
	BUTYL BENZYL PHTHALATE	UG/L	7	6	14	6	4	213	N-D
	DI-N-BUTYL PHTHALATE	UG/L	7	L 4	43	6	L 4	107	12
	DIETHYL PHTHALATE	UG/L	5	L 5		8	L 5	5	5
	ANTHRACENE	UG/L	L 10	L 10		L 10	L 10	63	12
	PHENANTHRENE	UG/L	L 10	L 10		L 10	L 10	63	21
	PYRENE	UG/L	L 4	L 4		L 4	L 4	17	5
PESTICIDES	4,4'-DDD	NG/L	L 1200	50		50	L 300	N-D	N-D

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 38

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	TERTIARY EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
PESTICIDES	HEPTACHLOR EPOXIDE	NG/L	L 400	33		L 400	33	N-D	N-D
	ALPHA-BHC	NG/L	L 200	10		15	L 50	N-D	N-D
	GAMMA-BHC	NG/L	30	37		107	20	N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	L 50	6	5
	ARSENIC	UG/L	L 50	L 50		L 50	L 50	14	11
	CADMIUM	UG/L	15	L 2	87	18	L 2	345	210
	CHROMIUM	UG/L	172	19	89	113	14	2717	2367
	COPPER	UG/L	165	5	97	134	5	2933	2833
	CYANIDE	UG/L	255	55	78	294	109	1253	496
	LEAD	UG/L	105	L 50	52	55	L 50	1808	1087
	MERCURY	NG/L	933	L 200	79	817	50	1667	1833
	NICKEL	UG/L	69	45	35	57	51	192	200
	SELENIUM	UG/L	L 50	L 50		L 50	L 50	6	12
	SILVER	UG/L	10	L 5	50	8	1	109	75
	ZINC	UG/L	591	109	82	409	94	10800	5533
N-C METALS	ALUMINUM	UG/L	917	25	97	521	43	NOT RUN	NOT RUN
	BARIUM	UG/L	136	41	70	89	39	NOT RUN	NOT RUN
	CALCIUM	MG/L	59	52	12	55	52	NOT RUN	NOT RUN
	IRON	UG/L	2222	77	97	1222	44	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	16	14	13	15	14	NOT RUN	NOT RUN
	MANGANESE	UG/L	56	30	46	42	31	NOT RUN	NOT RUN
	SODIUM	MG/L	168	158	6	159	164	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 39

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	OTHER EFFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE
CONV.	BOD	MG/L	223	32	86	118	11	10800	2917
	TOTAL SUSP. SOLIDS	MG/L	90	20	78	44	4	5795	575
	COD	MG/L	423	119	72	476	38	14667	1200
	OIL & GREASE	MG/L	46	7	85	15	5	32	18
NON-CONV.	TOTAL PHENOLS	UG/L	30	32		36	10	252	27
	TOTAL SOLIDS	MG/L	442	388	12	377	601	10231	752
	TOTAL DISS. SOLIDS	MG/L	785	350	55	343	624	3000	NOT RUN
	SETTLEABLE SOLIDS	ML/L	1	L 1		0	L 1	620	14
	TOTAL VOLATILE SOLIDS	MG/L	214	162	24	92	135	6803	380
	VOLATILE DISS. SOLIDS	MG/L	111	88	21	79	167	2431	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	68	16	76	33	3	4923	NOT RUN
	AMMONIA NITROGEN	MG/L	15	14	7	11	2	114	19
	TOC	MG/L	71	21	70	49	9	1367	75
VOLATILES	BENZENE	UG/L	5	L 1	80	2	L 1	2	N-D
	CARBON TETRACHLORIDE	UG/L	0	L 1		L 1	L 1	N-D	N-D
	CHLOROBENZENE	UG/L	4	L 1	75	L 1	L 1	N-D	N-D
	1,2-DICHLOROETHANE	UG/L	2	L 1	50	L 1	L 1	N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	7	L 1	86	4	L 1	N-D	N-D
	1,1-DICHLOROETHANE	UG/L	L 1	L 1		L 1	L 1	5	N-D
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 1	L 1		L 1	L 1	N-D	3
	CHLOROFORM	UG/L	8	6	25	15	1	3	3
	1,2-TRANS-DICHLOROETHYLENE	UG/L	38	L 1	97	0	L 1	557	N-D
	1,3-DICHLOROPROPYLENE	UG/L	19	L 1	95	L 1	L 1	N-D	N-D
	ETHYLBENZENE	UG/L	2	L 1	50	1	0	4	N-D
	METHYLENE CHLORIDE	UG/L	79	19	76	26	6	92	13
	TETRACHLOROETHYLENE	UG/L	14	35		12	4	2	4
	TOLUENE	UG/L	221	6	97	104	1	209	32
	TRICHLOROETHYLENE	UG/L	123	1	99	31	1	37	8
ACIDS	PHENOL	UG/L	4	L 1	75	5	L 1	N-D	N-D
BASE-NEUT.	ACENAPHTHENE	UG/L	L 25	L 25		L 25	L 25	N-D	30
	1,2-DICHLOROBENZENE	UG/L	L 5	L 5		2	L 5	N-D	N-D
	3,3'-DICHLOROBENZIDINE	UG/L	L 25	L 25		1	L 25	N-D	N-D
	FLUORANTHENE	UG/L	L 4	L 4		L 4	L 4	N-D	225
	NAPHTHALENE	UG/L	2	1	50	20	L 3	45	N-D
	NITROBENZENE	UG/L	L 10	L 10		4	L 10	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	35	30	14	26	4	1190	101
	BUTYL BENZYL PHTHALATE	UG/L	10	L 3	70	6	L 3	48	154
	DI-N-BUTYL PHTHALATE	UG/L	10	2	80	6	L 4	9	7
	DIETHYL PHTHALATE	UG/L	5	2	60	7	L 5	N-D	N-D
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		L 5	L 5	N-D	51
	CHRYSENE	UG/L	L 5	L 5		L 5	L 5	N-D	51
	ANTHRACENE	UG/L	L 10	L 10		L 10	L 10	18	750
	FLUORENE	UG/L	L 5	L 5		L 5	L 5	N-D	104
	PHENANTHRENE	UG/L	L 10	L 10		L 10	L 10	18	750
	PYRENE	UG/L	L 4	L 4		L 4	L 4	N-D	154
METALS	ANTIMONY	UG/L	L 50	L 50		L 50	L 50	9	2
	ARSENIC	UG/L	L 50	L 50		L 50	L 50	7	1
	CADMIUM	UG/L	1	1		L 2	L 2	42	16

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 39

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	OTHER EFFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE
METALS	CHROMIUM	UG/L	13	9	31	6	L 5	850	L 280
	COPPER	UG/L	198	107	46	127	16	6017	945
	CYANIDE	UG/L	121	49	60	102	30	1690	299
	LEAD	UG/L	24	11	54	L 50	L 50	1610	100
	MERCURY	NG/L	500	217	57	460	L 200	19983	L 5000
	NICKEL	UG/L	4	L 10		3	L 10	1527	L 91
	SELENIUM	UG/L	L 50	L 50		L 50	L 50	21	6
	SILVER	UG/L	5	4	20	1	L 5	273	55
	ZINC	UG/L	120	75	38	92	6	4617	615
N-C METALS	ALUMINUM	UG/L	592	259	56	398	66	NOT RUN	NOT RUN
	BARIUM	UG/L	85	43	49	61	102	NOT RUN	NOT RUN
	CALCIUM	MG/L	31	31		34	71	NOT RUN	NOT RUN
	IRON	UG/L	679	304	55	430	16	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	12	11	8	12	26	NOT RUN	NOT RUN
	MANGANESE	UG/L	67	53	21	65	39	NOT RUN	NOT RUN
	SODIUM	MG/L	41	42		40	51	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 40

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	COMBINED SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	236	55	77	26333	3117
	TOTAL SUSP. SOLIDS	MG/L	138	54	61	16548	1190
	COD	MG/L	405	188	54	38267	1640
	OIL & GREASE	MG/L	55	12	78	3767	33
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	47	21	55	918	38
	TOTAL SOLIDS	MG/L	1541	1425	8	34826	2730
	TOTAL DISS. SOLIDS	MG/L	1405	1366	3	5483	1730
	SETTLEABLE SOLIDS	ML/L	2	0	100	868	503
	TOTAL VOLATILE SOLIDS	MG/L	205	203	1	19117	744
	VOLATILE DISS. SOLIDS	MG/L	206	178	14	2831	260
	TOTAL VOL. SUS. SOLIDS	MG/L	94	33	65	11233	745
	AMMONIA NITROGEN	MG/L	16	12	25	68	12
	TOC	MG/L	89	45	49	1942	120
VOLATILES	CARBON TETRACHLORIDE	UG/L	L 1	2		N-D	N-D
	1,1,1-TRICHLOROETHANE	UG/L	24	2	92	N-D	N-D
	CHLOROFORM	UG/L	71	10	86	41	N-D
	1,1-DICHLOROETHYLENE	UG/L	1	L 1		N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	43	1	98	53	N-D
	ETHYLBENZENE	UG/L	4	0	100	36	N-D
	METHYLENE CHLORIDE	UG/L	9	2	78	128	12
	TRICHLOROFLUOROMETHANE	UG/L	3	0	100	N-D	N-D
	TETRACHLOROETHYLENE	UG/L	82	5	94	32	N-D
	TOLUENE	UG/L	16	2	88	193	26
	TRICHLOROETHYLENE	UG/L	25	1	96	216	N-D
ACID EXTRACT	PENTACHLOROPHENOL	UG/L	11	6	45	N-D	N-D
	PHENOL	UG/L	6	1	83	683	N-D
BASE-NEUTRALS	1,2,4-TRICHLOROBENZENE	UG/L	35	1	97	942	N-D
	1,3-DICHLOROBENZENE	UG/L	L 5	L 5		10	N-D
	FLUORANTHENE	UG/L	L 4	L 4		80	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	12	8	33	1363	55
	BUTYL BENZYL PHTHALATE	UG/L	2	L 3		472	N-D
	DI-N-BUTYL PHTHALATE	UG/L	1	1		47	9
	1,2-BENZANTHRACENE	UG/L	L 5	L 5		120	N-D
	CHRYSENE	UG/L	L 5	L 5		120	N-D
	ANTHRACENE	UG/L	L 10	L 10		54	N-D
	PHENANTHRENE	UG/L	L 10	L 10		54	N-D
	PYRENE	UG/L	L 4	L 4		75	N-D
PESTICIDES	HEPTACHLOR EPOXIDE	NG/L	L 500	17		N-D	N-D
METALS	ANTIMONY	UG/L	L 50	L 50		10	L 1
	ARSENIC	UG/L	L 50	L 50		237	31
	CADMIUM	UG/L	1	L 2		87	12
	CHROMIUM	UG/L	239	185	23	10100	800
	COPPER	UG/L	59	30	49	2310	290
	CYANIDE	UG/L	83	53	36	478	324
	LEAD	UG/L	L 50	L 50		1142	55
	MERCURY	NG/L	900	567	37	13500	L 5000
	NICKEL	UG/L	25	11	56	330	39

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 40

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	COMBINED SLUDGE	SECONDARY SLUDGE
METALS	SELENIUM	UG/L	L 50	L 50		5	1
	SILVER	UG/L	1	L 5		345	L 87
	ZINC	UG/L	189	108	43	6382	580
NON-CONV. METALS	ALUMINUM	UG/L	825	488	41	NOT RUN	NOT RUN
	BARIUM	UG/L	54	33	39	NOT RUN	NOT RUN
	CALCIUM	MG/L	35	42		NOT RUN	NOT RUN
	IRON	UG/L	5568	2750	51	NOT RUN	NOT RUN
	MAGNESIUM	MG/L	1	L 2		NOT RUN	NOT RUN
	MANGANESE	UG/L	84	71	15	NOT RUN	NOT RUN
	SODIUM	MG/L	375	359	4	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 51

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	SECONDARY SLUDGE	COMBINED SOURCES
CONVENTIONALS	BOD	MG/L	299	4	99	7800	5608	2002
	TOTAL SUSP. SOLIDS	MG/L	508	9	98	50000	28317	2523
	COD	MG/L	867	61	93	43000	25500	4250
	OIL & GREASE	MG/L	39	8	79	5525	914	29
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	152	4	97	572	216	178
	TOTAL SOLIDS	MG/L	1290	655	49	52958	30050	3658
	TOTAL DISS. SOLIDS	MG/L	782	645	18	2983	1733	1135
	TOTAL VOLATILE SOLIDS	MG/L	667	177	73	30455	21096	2217
	AMMONIA NITROGEN	MG/L	20	30		160	241	116
	TOC	MG/L	265	44	83	26050	18138	1415
VOLATILES	ACROLEIN	UG/L	L 100	L 100		NOT RUN	NOT RUN	205
	BENZENE	UG/L	7	L 10		NOT RUN	NOT RUN	17
	1,1,1-TRICHLOROETHANE	UG/L	6	L 10		NOT RUN	NOT RUN	L 10
	1,1-DICHLOROETHANE	UG/L	L 10	L 10		NOT RUN	NOT RUN	6
	CHLOROETHANE	UG/L	415	632		NOT RUN	NOT RUN	300
	CHLOROFORM	UG/L	18	11	39	NOT RUN	NOT RUN	2
	1,2-TRANS-DICHLOROETHYLENE	UG/L	5	L 10		NOT RUN	NOT RUN	3
	ETHYLBENZENE	UG/L	26	3	88	NOT RUN	NOT RUN	27
	METHYLENE CHLORIDE	UG/L	37	15	59	NOT RUN	NOT RUN	16
	TETRACHLOROETHYLENE	UG/L	22	L 10	55	NOT RUN	NOT RUN	L 10
	TOLUENE	UG/L	283	L 10	96	NOT RUN	NOT RUN	407
	TRICHLOROETHYLENE	UG/L	11	L 10	9	NOT RUN	NOT RUN	L 10
ACID EXTRACT	2-CHLOROPHENOL	UG/L	L 80	L 60		NOT RUN	NOT RUN	17
	PHENOL	UG/L	L 90	L 80		NOT RUN	NOT RUN	16
BASE-NEUTRALS	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	435	193	56	NOT RUN	NOT RUN	470
	BUTYL BENZYL PHTHALATE	UG/L	31	367		NOT RUN	NOT RUN	155
	DI-N-BUTYL PHTHALATE	UG/L	14	25		NOT RUN	NOT RUN	55
	DI-N-OCTYL PHTHALATE	UG/L	24	6	75	NOT RUN	NOT RUN	11
	DIETHYL PHTHALATE	UG/L	9	2	78	NOT RUN	NOT RUN	20
	DIMETHYL PHTHALATE	UG/L	6	L 30		NOT RUN	NOT RUN	67
	ACENAPHTHYLENE	UG/L	L 30	L 30		NOT RUN	NOT RUN	1
METALS	ANTIMONY	UG/L	1	L 1		99	14	0
	ARSENIC	UG/L	1	1		1041	403	11
	BERYLLIUM	UG/L	L 1	L 1		15	8	1
	CADMIUM	UG/L	1	L 4		236	78	22
	CHROMIUM	UG/L	159	16	90	11990	6840	854
	COPPER	UG/L	330	19	94	32567	16600	1884
	CYANIDE	UG/L	5	5		55	222	18
	LEAD	UG/L	194	14	93	15000	7493	1074
	MERCURY	NG/L	1667	L 1000	40	72167	60000	7833
	NICKEL	UG/L	46	6	87	3732	1792	239
	SELENIUM	UG/L	2	L 2		18	10	L 2
	SILVER	UG/L	45	2	96	2117	2213	149
	THALLIUM	UG/L	0	L 1		N-D	L 1	L 1
	ZINC	UG/L	806	133	83	77617	39183	4457
NON-CONV. METALS	ALUMINUM	UG/L	6540	238	96	711500	330667	39383
	BARIUM	UG/L	395	18	95	6802	4761	1251

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 51

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	SECONDARY SLUDGE	COMBINED SOURCES
NON-CONV. METALS	BORON	UG/L	561	417	26	606	928	713
	CALCIUM	MG/L	77	57	26	1893	1051	171
	COBALT	UG/L	98	94	4	388	209	98
	IRON	UG/L	10172	494	95	988667	471833	56083
	MAGNESIUM	MG/L	25	19	24	354	369	55
	MANGANESE	UG/L	124	28	77	8198	4940	578
	MOLYBDENUM	UG/L	106	102	4	1548	763	103
	SODIUM	MG/L	101	112		168	157	110
	TIN	UG/L	89	14	84	3915	2370	341
	TITANIUM	UG/L	73	4	95	4968	2135	369
	VANADIUM	UG/L	10	1	90	984	430	56
	YTTRIUM	UG/L	19	10	47	305	186	31

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 52

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	OTHER INFLUENT
CONVENTIONALS	BOD	MG/L	145	43	70	6060	1370
	TOTAL SUSP. SOLIDS	MG/L	85	23	73	58400	362
	COD	MG/L	197	79	60	32640	9950
	OIL & GREASE	MG/L	26	L 5	81	3961	20
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	1408	54	96	1960	270000
	TOTAL SOLIDS	MG/L	387	270	30	73660	7044
	TOTAL DISS. SOLIDS	MG/L	304	247	19	15260	6682
	TOTAL VOLATILE SOLIDS	MG/L	153	107	30	25421	5992
	VOLATILE DISS. SOLIDS	MG/L	NOT RUN	NOT RUN		NOT RUN	256
	AMMONIA NITROGEN	MG/L	12	7	42	64	NOT RUN
	TOC	MG/L	82	56	32	12264	NOT RUN
VOLATILES	BENZENE	UG/L	2	2		95	185
	CHLOROBENZENE	UG/L	1	0	100	77	L 10
	1,1,1-TRICHLOROETHANE	UG/L	0	L 10		N-D	L 10
	1,1-DICHLOROETHANE	UG/L	L 10	L 10		4	L 10
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 10	L 10		14	L 10
	CHLOROFORM	UG/L	2	0	100	N-D	L 10
	1,1-DICHLOROETHYLENE	UG/L	1	L 10		N-D	L 10
	ETHYLBENZENE	UG/L	L 10	L 10		23	56
	METHYLENE CHLORIDE	UG/L	6	L 10		25	36
	TRICHLOROFLUOROMETHANE	UG/L	L 10	L 10		6	L 10
	TETRACHLOROETHYLENE	UG/L	5	L 10		66	L 10
	TOLUENE	UG/L	11	3	73	60	230
	TRICHLOROETHYLENE	UG/L	1	1		3	L 10
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	UG/L	4	L 50		N-D	250
	2,4-DIMETHYLPHENOL	UG/L	17	0	100	N-D	3950
	2-NITROPHENOL	UG/L	L 50	L 50		N-D	215
	2,4-DINITROPHENOL	UG/L	6	L 50		N-D	L 125
	PENTACHLOROPHENOL	UG/L	1	L 50		N-D	2350
	PHENOL	UG/L	260	0	100	N-D	5450
BASE-NEUTRALS	ACENAPHTHENE	UG/L	32	10	69	8450	22250
	1,2-DICHLOROBENZENE	UG/L	0	L 20		N-D	L 50
	1,3-DICHLOROBENZENE	UG/L	L 20	L 20		2900	L 50
	1,4-DICHLOROBENZENE	UG/L	L 20	L 20		2450	L 50
	2,4-DINITROTOLUENE	UG/L	3	1	67	N-D	L 50
	FLUORANTHENE	UG/L	29	17	41	25500	15350
	BIS(2-CHLOROETHYOXY) METHANE	UG/L	12	L 20		N-D	L 50
	ISOPHORONE	UG/L	0	L 20		N-D	L 50
	NAPHTHALENE	UG/L	4	L 20		5900	26850
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	3	11		5250	L 50
	BUTYL BENZYL PHTHALATE	UG/L	L 20	L 20		175	L 50
	DI-N-BUTYL PHTHALATE	UG/L	38	17	55	N-D	L 50
	DI-N-OCTYL PHTHALATE	UG/L	3	L 20		N-D	L 50
	DIETHYL PHTHALATE	UG/L	2	1	50	N-D	L 50
	1,2-BENZANTHRACENE	UG/L	6	L 10		11100	1050
	3,4-BENZOFLUORANTHENE	UG/L	L 10	L 10		N-D	4405
	11,12-BENZOFLUORANTHENE	UG/L	L 10	L 10		4250	4405
	CHRYSENE	UG/L	3	L 10		11100	6500
	ACENAPHTHYLENE	UG/L	0	L 20		N-D	L 50

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 52

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM.		PRIMARY SLUDGE		OTHER INFLUENT
BASE-NEUTRALS	ANTHRACENE	UG/L		225		1	100		25500		34050
	1,12-BENZOPERYLENE	UG/L	L	10	L	10			N-D		684
	FLUORENE	UG/L		33		1	97		3800		1500
	PHENANTHRENE	UG/L		196		1	99		25500		32000
	1,2:5,6-DIBENZANTHRACENE	UG/L	L	10	L	10			N-D		1160
	INDENO(1,2,3-C,D) PYRENE	UG/L	L	10	L	10			N-D		3100
	PYRENE	UG/L		12		6	50		21650	L	25
METALS	ANTIMONY	UG/L	L	1		0			23	L	5
	ARSENIC	UG/L		1		1			615		26
	BERYLLIUM	UG/L	L	1	L	1			11		1
	CADMIUM	UG/L	L	2	L	2			23		4
	CHROMIUM	UG/L		1		1			1338		29
	COPPER	UG/L		23		12	48		7218		57
	CYANIDE	UG/L	L	20	L	20			74	L	20
	LEAD	UG/L	L	40	L	40			6308		85
	MERCURY	NG/L		1167	L	1000	14		158200		1500
	NICKEL	UG/L		8		10			736		793
	SELENIUM	UG/L		1		1			30	L	5
	SILVER	UG/L		2		7			595		16
	THALLIUM	UG/L		0		0			65	L	70
	ZINC	UG/L		89		51	43		29420		62
NON-CONV. METALS	ALUMINUM	UG/L		1793		457	75		588600		563
	BARIUM	UG/L		86		17	80		7008		234
	BORON	UG/L		136		116	15	L	80		353
	CALCIUM	MG/L		8		6	25		450		452
	COBALT	UG/L		8		21			91		13
	IRON	UG/L		1400		628	55		429000		3653
	MAGNESIUM	MG/L		1		1			59		7
	MANGANESE	UG/L		42		34	19		3776		412
	MOLYBDENUM	UG/L	L	35	L	35			452		21
	SODIUM	MG/L		57		58			92		80
	TIN	UG/L		7	L	25			2930		76
	TITANIUM	UG/L		7		1	86		1122		19
	VANADIUM	UG/L		0	L	1			609		78
	YTTRIUM	UG/L	L	3	L	3			157		52

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 53

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	INTERMED EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	172	2	99	95	10410	3304
	TOTAL SUSP. SOLIDS	MG/L	137	9	93	69	40600	4694
	COD	MG/L	442	126	71	351	56500	10980
	OIL & GREASE	MG/L	19	10	47	10	329	8
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	105	21	80	81	1967	476
	TOTAL SOLIDS	MG/L	855	651	24	760	41383	5582
	TOTAL DISS. SOLIDS	MG/L	719	642	11	691	783	888
	TOTAL VOLATILE SOLIDS	MG/L	314	150	52	183	31983	4216
	AMMONIA NITROGEN	MG/L	7	2	71	11	121	3
	TOC	MG/L	143	36	75	125	20300	2530
VOLATILES	ACRYLONITRILE	UG/L	L 100	L 100		L 100	20	1
	BENZENE	UG/L	L 10	L 10		1	36	2
	CHLOROBENZENE	UG/L	L 10	L 10		5	708	49
	1,1,1-TRICHLOROETHANE	UG/L	50	1	98	9	1	N-D
	1,1-DICHLOROETHANE	UG/L	L 10	L 10		L 10	21	4
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 10	L 10		L 10	18	N-D
	CHLOROETHANE	UG/L	6	L 10		L 10	N-D	N-D
	CHLOROFORM	UG/L	10	43		3	N-D	N-D
	1,1-DICHLOROETHYLENE	UG/L	8	L 10		L 10	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	UG/L	18	L 10	44	4	601	24
	1,2-DICHLOROPROPANE	UG/L	15	L 10	33	L 10	4	2
	ETHYLBENZENE	UG/L	17	L 10	41	1	105	13
	METHYLENE CHLORIDE	UG/L	24	7	71	14	8	1
	METHYL CHLORIDE	UG/L	L 10	56		L 10	N-D	N-D
	TRICHLOROFLUOROMETHANE	UG/L	L 10	L 10		L 10	19	1
	TETRACHLOROETHYLENE	UG/L	455	L 10	98	158	8	13
	TOLUENE	UG/L	6	1	83	3	27	5
	TRICHLOROETHYLENE	UG/L	88	L 10	89	29	15	16
ACID EXTRACT	2-CHLOROPHENOL	UG/L	18	L 63		L 72	N-D	N-D
	4,6-DINITRO-O-CRESOL	UG/L	L 78	1		L 72	N-D	N-D
	PENTACHLOROPHENOL	UG/L	9	L 63		5	N-D	N-D
	PHENOL	UG/L	51	2	96	21	420	218
BASE-NEUTRALS	ACENAPHTHENE	UG/L	584	1	100	91	N-D	N-D
	1,2,4-TRICHLOROBENZENE	UG/L	919	5	99	143	6057	N-D
	1,2-DICHLOROBENZENE	UG/L	3	L 22		3	45	N-D
	1,4-DICHLOROBENZENE	UG/L	2	L 22		1	2682	N-D
	FLUORANTHENE	UG/L	L 30	L 11		L 19	35	N-D
	4-CHLOROPHENYL PHENYL ETHER	UG/L	L 37	1		L 38	N-D	N-D
	NAPHTHALENE	UG/L	55	L 22	60	11	2107	N-D
	NITROBENZENE	UG/L	22	L 22		1	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	31	11	65	11	4933	900
	BUTYL BENZYL PHTHALATE	UG/L	L 37	1		L 38	N-D	N-D
	DI-N-BUTYL PHTHALATE	UG/L	6	3	50	5	N-D	14
	DIETHYL PHTHALATE	UG/L	7	9		9	N-D	9
	DIMETHYL PHTHALATE	UG/L	1	L 22		0	N-D	N-D
	ACENAPHTHYLENE	UG/L	L 37	L 22		2	N-D	N-D
	ANTHRACENE	UG/L	L 37	L 22		L 38	27	N-D
	FLUORENE	UG/L	L 37	L 22		L 38	38	N-D
	PHENANTHRENE	UG/L	L 37	L 22		L 38	27	N-D

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

PLANT 53

FRACTION	PARAMETER	UNITS		INFLUENT		SECONDARY EFFLUENT	PCNT REM.		INTERMED EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
BASE-NEUTRALS	INDENO(1,2,3-C,D) PYRENE	UG/L	L	18		7			6	N-D	N-D
	PYRENE	UG/L	L	18	L	11		L	19	31	N-D
METALS	ANTIMONY	UG/L		16		15	6		61	215	33
	ARSENIC	UG/L		4		3	25		3	33	4
	BERYLLIUM	UG/L	L	1	L	1		L	1	35	20
	CADMIUM	UG/L		3	L	2	33		2	528	200
	CHROMIUM	UG/L		12		5	58		15	1550	388
	COPPER	UG/L		119		30	75		114	11033	2233
	CYANIDE	UG/L		102		205			97	112	730
	LEAD	UG/L		29	L	40			16	6517	840
	MERCURY	NG/L		833		167	80		500	195667	100333
	NICKEL	UG/L		117		112	4		170	8417	1777
	SELENIUM	UG/L	L	1		0		L	1	21	3
	SILVER	UG/L		5		2	60		155	700	172
	ZINC	UG/L		294		159	46		297	27767	5517
NON-CONV. METALS	ALUMINUM	UG/L		1122		218	81		1128	NOT RUN	6
	BARIUM	UG/L		95		12	87		72	NOT RUN	6
	BORON	UG/L		490		557			557	NOT RUN	6
	CALCIUM	MG/L		11		10	9		11	NOT RUN	6
	COBALT	UG/L		38		47			16	NOT RUN	6
	IRON	UG/L		1462		439	70		1428	NOT RUN	6
	MAGNESIUM	MG/L		3		13			8	NOT RUN	6
	MANGANESE	UG/L		67		54	19		68	NOT RUN	6
	MOLYBDENUM	UG/L	L	35	L	35		L	35	NOT RUN	6
	SODIUM	MG/L		182		182			192	NOT RUN	6
	TIN	UG/L		14		10	29		5	NOT RUN	6
	TITANIUM	UG/L		16		4	75		15	NOT RUN	6
	VANADIUM	UG/L	L	1	L	1		L	1	NOT RUN	6
	YTTRIUM	UG/L	L	3	L	3		L	3	NOT RUN	6

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 54

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	SECONDARY SLUDGE	OTHER INFLUENT
CONVENTIONALS	BOD	MG/L	137	6	96	17683	2877	89
	TOTAL SUSP. SOLIDS	MG/L	253	50	80	41700	5360	4625
	COD	MG/L	323	23	93	31333	6533	2867
	OIL & GREASE	MG/L	35	6	83	1027	184	1
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	143	66	54	1145	710	1535
	TOTAL SOLIDS	MG/L	670	472	30	43317	6187	74933
	TOTAL DISS. SOLIDS	MG/L	417	422		1617	827	70308
	TOTAL VOLATILE SOLIDS	MG/L	232	75	68	22300	4212	5982
	AMMONIA NITROGEN	MG/L	12	14		109	18	1
	TOC	MG/L	101	32	68	10565	2448	1335
VOLATILES	BENZENE	UG/L	0	L 10		2	4	0
	CARBON TETRACHLORIDE	UG/L	1	L 10		N-D	N-D	L 10
	CHLOROBENZENE	UG/L	L 10	L 10		2	N-D	L 10
	1,1,1-TRICHLOROETHANE	UG/L	14	3	79	N-D	N-D	0
	1,1-DICHLOROETHANE	UG/L	L 10	L 10		3	N-D	L 10
	CHLOROFORM	UG/L	6	5	17	3	1	L 10
	1,1-DICHLOROETHYLENE	UG/L	0	L 10		N-D	N-D	L 10
	1,2-TRANS-DICHLOROETHYLENE	UG/L	0	L 10		N-D	N-D	L 10
	ETHYLBENZENE	UG/L	L 10	L 10		14	0	L 10
	METHYLENE CHLORIDE	UG/L	3	3		2	N-D	1
	METHYL CHLORIDE	UG/L	L 10	L 10		1	1	L 10
	DICHLORODIFLUOROMETHANE	UG/L	L 10	L 10		N-D	4	L 10
	TETRACHLOROETHYLENE	UG/L	5	1	80	303	11	L 10
	TOLUENE	UG/L	6	0	100	625	74	658
	TRICHLOROETHYLENE	UG/L	0	L 10		54	4	L 10
ACID EXTRACT	2-CHLOROPHENOL	UG/L	L 128	L 78		N-D	N-D	6
	2,4-DICHLOROPHENOL	UG/L	417	191	54	1093	N-D	51
	PHENOL	UG/L	3	L 93		121	138	610
BASE-NEUTRALS	HEXACHLOROBENZENE	UG/L	L 40	L 104		95	8	L 30
	BIS(2-CHLOROETHYL) ETHER	UG/L	125	L 104	17	N-D	N-D	L 30
	1,2-DIPHENYLHYDRAZINE	UG/L	L 40	0		N-D	N-D	L 30
	FLUORANTHENE	UG/L	L 20	L 52		79	1	L 15
	BIS(2-CHLOROETHYOXY) METHANE	UG/L	1	L 104		N-D	N-D	L 30
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	89	80	10	4250	726	158
	BUTYL BENZYL PHTHALATE	UG/L	L 40	1		73	N-D	3
	DI-N-BUTYL PHTHALATE	UG/L	10	3	70	57	37	4
	DIETHYL PHTHALATE	UG/L	2	L 104		N-D	N-D	2
	DIMETHYL PHTHALATE	UG/L	L 40	L 104		N-D	N-D	1
	PYRENE	UG/L	L 20	L 52		73	N-D	L 15
METALS	ANTIMONY	UG/L	1	1		12	6	7
	ARSENIC	UG/L	0	L 1		29	8	3
	BERYLLIUM	UG/L	L 1	L 1		14	L 10	L 1
	CADMIUM	UG/L	4	4		144	14	39
	CHROMIUM	UG/L	15	4	73	4082	532	107
	COPPER	UG/L	21	2	90	5410	6222	61
	CYANIDE	UG/L	2	37		13	L 10	8
	LEAD	UG/L	123	92	25	4583	430	832
	MERCURY	NG/L	833	L 1000		206667	33333	L 1000

POLLUTANTS NOT LISTED WERE NEVER DETECTED

SUMMARY OF ANALYTICAL DATA

PLANT 54

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	SECONDARY SLUDGE	OTHER INFLUENT
METALS	NICKEL	UG/L	11	11		1070	868	230
	SELENIUM	UG/L	2	7		24	2	15
	SILVER	UG/L	9	0	100	942	377	L 1
	THALLIUM	UG/L	L 1	L 1		L 13	L 22	14
	ZINC	UG/L	114	16	86	12760	5340	89
NON-CONV. METALS	ALUMINUM	UG/L	3737	157	96	NOT RUN	NOT RUN	6708
	BARIUM	UG/L	107	16	85	NOT RUN	NOT RUN	341
	BORON	UG/L	256	205	20	NOT RUN	NOT RUN	115
	CALCIUM	MG/L	37	25	32	NOT RUN	NOT RUN	3427
	COBALT	UG/L	L 50	L 50		NOT RUN	NOT RUN	24
	IRON	UG/L	3700	276	93	NOT RUN	NOT RUN	4681
	MAGNESIUM	MG/L	3	2	33	NOT RUN	NOT RUN	50
	MANGANESE	UG/L	222	158	29	NOT RUN	NOT RUN	238
	MOLYBDENUM	UG/L	119	121		NOT RUN	NOT RUN	439
	SODIUM	MG/L	169	112	34	NOT RUN	NOT RUN	21083
	TIN	UG/L	15	L 25		NOT RUN	NOT RUN	644
	TITANIUM	UG/L	45	4	91	NOT RUN	NOT RUN	31
	VANADIUM	UG/L	1	L 1		NOT RUN	NOT RUN	15
	YTTRIUM	UG/L	9	8	11	NOT RUN	NOT RUN	38

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 55

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	TERTIARY EFFLUENT	OTHER INFLUENT
CONVENTIONALS	BOD	MG/L	162	8	95	L 25	NOT RUN
	TOTAL SUSP. SOLIDS	MG/L	453	16	96	21	NOT RUN
	COD	MG/L	649	164	75	107	1293
	OIL & GREASE	MG/L	37	20	46	16	NOT RUN
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	792	44	94	108	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	208	11	95	13	NOT RUN
	AMMONIA NITROGEN	MG/L	8	1	88	1	NOT RUN
	TOC	MG/L	201	62	69	53	NOT RUN
VOLATILES	BENZENE	UG/L	183	2	99	L 10	4
	CHLOROBENZENE	UG/L	5	0	100	L 10	N-D
	1,2-DICHLOROETHANE	UG/L	3997	L 10	100	L 10	N-D
	1,1,1-TRICHLOROETHANE	UG/L	89	L 10	89	L 10	N-D
	1,1-DICHLOROETHANE	UG/L	27	L 10	63	L 10	N-D
	CHLOROETHANE	UG/L	310	213	31	224	NOT RUN
	CHLOROFORM	UG/L	816	18	98	0	324
	1,2-TRANS-DICHLOROETHYLENE	UG/L	9	L 10		L 10	NOT RUN
	ETHYLBENZENE	UG/L	26	L 10	62	1	8
	METHYLENE CHLORIDE	UG/L	13	2	85	3	9
	METHYL CHLORIDE	UG/L	12	5	58	L 10	NOT RUN
	CHLORODIBROMOMETHANE	UG/L	L 10	L 10		L 10	3
	TETRACHLOROETHYLENE	UG/L	50	L 10	80	L 10	16
	TOLUENE	UG/L	829	23	97	L 10	10
	TRICHLOROETHYLENE	UG/L	40	L 10	75	L 10	N-D
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	UG/L	L 258	L 137		L 187	2
	2-CHLOROPHENOL	UG/L	L 258	L 137		L 187	1
	PENTACHLOROPHENOL	UG/L	L 258	L 137		L 187	1
	PHENOL	UG/L	42	L 165		L 224	12
BASE-NEUTRALS	3,3'-DICHLOROBENZIDINE	UG/L	90	L 42	53	L 21978	NOT RUN
	1,2-DIPHENYLHYDRAZINE	UG/L	1	L 42		L 21978	NOT RUN
	FLUORANTHENE	UG/L	L 19	L 21		L 10989	2
	ISOPHORONE	UG/L	L 39	L 42		L 21978	7
	NAPHTHALENE	UG/L	L 39	L 42		L 21978	5
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	123	73	41	132	7
	BUTYL BENZYL PHTHALATE	UG/L	18	L 42		L 21978	L 1
	DI-N-BUTYL PHTHALATE	UG/L	5	1	80	1	1
	DI-N-OCTYL PHTHALATE	UG/L	2	2		3	L 1
	DIETHYL PHTHALATE	UG/L	L 39	L 42		1	L 1
	DIMETHYL PHTHALATE	UG/L	2	L 42		L 21978	NOT RUN
	CHRYSENE	UG/L	L 19	L 21		L 10989	3
	ANTHRACENE	UG/L	L 39	L 42		L 21978	3
	PHENANTHRENE	UG/L	L 39	L 42		L 21978	3
	PYRENE	UG/L	L 19	L 21		L 10989	1
METALS	ANTIMONY	UG/L	3	1	67	1	L 5
	ARSENIC	UG/L	5	6		2	12
	BERYLLIUM	UG/L	L 10	L 10		L 10	1
	CADMIUM	UG/L	L 100	L 100		L 100	7
	CHROMIUM	UG/L	1252	128	90	35	59
	COPPER	UG/L	138	5	96	L 10	71

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 55

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	TERTIARY EFFLUENT	OTHER INFLUENT
METALS	CYANIDE	UG/L	84	L 10	88	3	NOT RUN
	LEAD	UG/L	217	L 200	8	33	94
	MERCURY	NG/L	300	83	72	50	1500
	NICKEL	UG/L	218	53	76	L 30	341
	SELENIUM	UG/L	5	3	40	3	L 4
	SILVER	UG/L	5	L 2	60	L 2	10
	THALLIUM	UG/L	2	2		1	L 50
	ZINC	UG/L	928	93	90	18	277
NON-CONV. METALS	ALUMINUM	UG/L	3867	300	92	317	2993
	BARIUM	UG/L	195	47	76	95	164
	BORON	UG/L	355	273	23	192	178
	CALCIUM	MG/L	146	75	49	70	167600
	COBALT	UG/L	L 50	L 50		L 50	20
	IRON	UG/L	11827	1720	85	2545	3162
	MAGNESIUM	MG/L	20	17	15	19	16745
	MANGANESE	UG/L	606	419	31	139	531
	MOLYBDENUM	UG/L	L 150	L 150		L 150	23
	SODIUM	MG/L	206	206		140	234272
	TIN	UG/L	L 600	L 600		L 600	17
	TITANIUM	UG/L	139	11	92	8	189
	VANADIUM	UG/L	5	L 5		L 5	194
	YTTRIUM	UG/L	317	350		333	15

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 56

FRACTION	PARAMETER	UNITS	INFLUENT	TERTIARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	MG/L	82	L 30	63	23	15000	255
	TOTAL SUSP. SOLIDS	MG/L	430	5	99	167	74717	2132
	COD	MG/L	393	726		228	56450	2253
	OIL & GREASE	MG/L	41	10	76	17	6682	115
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	253	68	73	99	NOT RUN	188
	TOTAL VOL. SUS. SOLIDS	MG/L	194	4	98	83	28667	846
	AMMONIA NITROGEN	MG/L	9	5	44	9	NOT RUN	9
	TOC	MG/L	101	69	32	102	NOT RUN	450
VOLATILES	BENZENE	UG/L	2	1	50	1	NOT RUN	NOT RUN
	1,1,1-TRICHLOROETHANE	UG/L	3	5		19	NOT RUN	NOT RUN
	1,1-DICHLOROETHANE	UG/L	0	L 10		1	NOT RUN	NOT RUN
	CHLOROFORM	UG/L	0	0		0	NOT RUN	NOT RUN
	1,2-TRANS-DICHLOROETHYLENE	UG/L	5	1	80	6	NOT RUN	NOT RUN
	ETHYLBENZENE	UG/L	1	1		1	NOT RUN	NOT RUN
	METHYLENE CHLORIDE	UG/L	2	2		5	NOT RUN	NOT RUN
	TETRACHLOROETHYLENE	UG/L	13	2	85	8	NOT RUN	NOT RUN
	TOLUENE	UG/L	3	0	100	3	NOT RUN	NOT RUN
	TRICHLOROETHYLENE	UG/L	58	28	52	55	NOT RUN	NOT RUN
ACID EXTRACT	2,4-DIMETHYLPHENOL	UG/L	L 25	L 25		3	NOT RUN	NOT RUN
	PHENOL	UG/L	5	L 30		1	NOT RUN	NOT RUN
BASE-NEUTRALS	HEXACHLOROBENZENE	UG/L	2	L 10		1	NOT RUN	NOT RUN
	1,3-DICHLOROBENZENE	UG/L	0	L 10		L 10	NOT RUN	NOT RUN
	FLUORANTHENE	UG/L	0	L 5		L 10	NOT RUN	NOT RUN
	NAPHTHALENE	UG/L	4	L 10		L 10	NOT RUN	NOT RUN
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	8	1	88	23	NOT RUN	NOT RUN
	BUTYL BENZYL PHTHALATE	UG/L	2	0	100	L 10	NOT RUN	NOT RUN
	DI-N-BUTYL PHTHALATE	UG/L	2	1	50	1	NOT RUN	NOT RUN
	DIETHYL PHTHALATE	UG/L	3	1	67	2	NOT RUN	NOT RUN
	1,2-BENZANTHRACENE	UG/L	0	L 5		L 5	NOT RUN	NOT RUN
	CHRYSENE	UG/L	0	L 5		L 5	NOT RUN	NOT RUN
	ACENAPHTHYLENE	UG/L	0	L 10		L 10	NOT RUN	NOT RUN
	ANTHRACENE	UG/L	2	L 10		L 10	NOT RUN	NOT RUN
	PHENANTHRENE	UG/L	2	L 10		L 10	NOT RUN	NOT RUN
	PYRENE	UG/L	1	L 5		L 5	NOT RUN	NOT RUN
PESTICIDES	HEPTACHLOR	NG/L	L 1000	250		L 1000	NOT RUN	NOT RUN
	ALPHA-BHC	NG/L	167	L 1000		83	NOT RUN	NOT RUN
	GAMMA-BHC	NG/L	500	417	17	750	NOT RUN	NOT RUN
	DELTA-BHC	NG/L	L 1000	83		L 1000	NOT RUN	NOT RUN
METALS	ANTIMONY	UG/L	L 5	L 5		L 5	46	L 5
	ARSENIC	UG/L	32	3	91	4	2600	89
	CADMIUM	UG/L	17	L 100		17	7600	292
	CHROMIUM	UG/L	572	38	93	138	48217	1372
	COPPER	UG/L	267	12	96	102	50000	3277
	CYANIDE	UG/L	61	35	43	21	NOT RUN	155
	LEAD	UG/L	583	117	80	217	54517	1800
	MERCURY	NG/L	133	L 100	25	33	44467	1033
	NICKEL	UG/L	189	98	48	120	11082	464

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 56

FRACTION	PARAMETER	UNITS	INFLUENT	TERTIARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	COMBINED SLUDGE	SECONDARY SLUDGE
METALS	SELENIUM	UG/L	3	10		1	98	L 1
	SILVER	UG/L	3	L 2	33	2	775	167
	THALLIUM	UG/L	1	2		1	18	5
	ZINC	UG/L	6717	1417	79	3200	1375833	35917
NON-CONV. METALS	ALUMINUM	UG/L	28533	150	99	7217	1948333	47450
	BARIUM	UG/L	267	127	52	170	21917	757
	BORON	UG/L	243	380		337	L 50	33
	CALCIUM	MG/L	103	108		106	844	128
	COBALT	UG/L	L 50	L 50		L 50	2125	75
	IRON	UG/L	151917	1218	99	47702	8386659	1232667
	MAGNESIUM	MG/L	31	30	3	30	145	33
	MANGANESE	UG/L	1038	703	32	751	20832	1442
	MOLYBDENUM	UG/L	25	25		25	7517	258
	SODIUM	MG/L	129	124	4	122	13	111
	TIN	UG/L	L 500	L 500		L 500	22583	L 500
	TITANIUM	UG/L	11	L 4	64	87	1965	47
	VANADIUM	UG/L	3	L 5		3	802	25
	YTTRIUM	UG/L	L 100	L 100		L 100	1900	50

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 57

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	DIGESTED SLUDGE	OTHER INFLUENT
CONVENTIONALS	BOD	MG/L	257	12	95	8325	5300	343
	TOTAL SUSP. SOLIDS	MG/L	583	49	92	43616	32430	140
	COD	MG/L	1165	101	91	30000	30000	624
	OIL & GREASE	MG/L	206	28	86	8380	6984	34
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	401	103	74	2875	372	900
	TOTAL SOLIDS	MG/L	NOT RUN	NOT RUN		42160	31900	NOT RUN
	TOTAL VOLATILE SOLIDS	MG/L	NOT RUN	NOT RUN		29800	23600	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	488	36	93	34485	23480	70
	AMMONIA NITROGEN	MG/L	9	7	22	NOT RUN	NOT RUN	5
	TOC	MG/L	333	122	63	NOT RUN	NOT RUN	308
VOLATILES	BENZENE	UG/L	4	L 10		14	10	NOT RUN
	CARBON TETRACHLORIDE	UG/L	L 10	L 10		33	L 25	NOT RUN
	1,1,1-TRICHLOROETHANE	UG/L	28	2	93	50	25	NOT RUN
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 10	L 10		22	L 25	NOT RUN
	CHLOROETHANE	UG/L	L 10	17		L 100	L 100	NOT RUN
	CHLOROFORM	UG/L	6	6		7	L 25	NOT RUN
	1,1-DICHLOROETHYLENE	UG/L	L 10	L 10		272	174	NOT RUN
	1,2-TRANS-DICHLOROETHYLENE	UG/L	34	3	91	2230	1230	NOT RUN
	ETHYLBENZENE	UG/L	7	21		927	677	NOT RUN
	METHYLENE CHLORIDE	UG/L	19	25		L 25	88	NOT RUN
	METHYL CHLORIDE	UG/L	248	5	98	L 25	L 25	NOT RUN
	TRICHLOROFLUOROMETHANE	UG/L	L 10	L 10		353	L 25	NOT RUN
	TETRACHLOROETHYLENE	UG/L	30	L 10	67	92	56	NOT RUN
	TOLUENE	UG/L	44	1	98	1200	972	NOT RUN
	TRICHLOROETHYLENE	UG/L	273	153	44	14	L 25	NOT RUN
	VINYL CHLORIDE	UG/L	55167	3900	93	8170	969	76500
ACID EXTRACT	PHENOL	UG/L	L 135	L 120		365	L 30	NOT RUN
BASE-NEUTRALS	FLUORANTHENE	UG/L	L 25	L 20		L 10	90	NOT RUN
	NAPHTHALENE	UG/L	L 50	L 40		100	L 10	NOT RUN
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	35	26	26	15500	6850	NOT RUN
	DI-N-BUTYL PHTHALATE	UG/L	2	2		L 10	L 10	NOT RUN
	PHENANTHRENE	UG/L	L 50	L 40		265	L 10	NOT RUN
	PYRENE	UG/L	L 25	L 20		148	265	NOT RUN
METALS	ANTIMONY	UG/L	5	2	60	166	242	L 5
	ARSENIC	UG/L	4	2	50	273	216	L 5
	BERYLLIUM	UG/L	L 1	L 1		7	15	L 1
	CADMIUM	UG/L	966	96	90	52967	45483	L 1
	CHROMIUM	UG/L	1422	146	90	73383	63300	75
	COPPER	UG/L	803	81	90	59433	44000	36
	CYANIDE	UG/L	123	L 10	92	132	36	L 10
	LEAD	UG/L	164	L 80	51	16483	11083	29
	MERCURY	NG/L	5000	500	90	238500	194667	L 1000
	NICKEL	UG/L	440	244	45	19417	20333	184
	SELENIUM	UG/L	L 2	L 2		66	54	L 5
	SILVER	UG/L	16	3	81	490	520	3
	ZINC	UG/L	3897	642	84	262333	184667	558
NON-CONV. METALS	ALUMINUM	UG/L	3295	395	88	261500	216000	782

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 57

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	DIGESTED SLUDGE	OTHER INFLUENT
NON-CONV. METALS	BARIUM	UG/L	285	34	88	2993	2560	46
	BORON	UG/L	446	446		986	460	938
	CALCIUM	MG/L	51	40	22	606	636	54
	COBALT	UG/L	L 125	L 100		188	209	8
	IRON	UG/L	8740	874	90	524750	451250	1018
	MAGNESIUM	MG/L	17	16	6	123	188	14
	MANGANESE	UG/L	307	186	39	9285	7618	95
	MOLYBDENUM	UG/L	196	120	39	1713	1695	20
	SODIUM	MG/L	101	103		L 75	94	314
	TIN	UG/L	103	32	69	3918	2970	18
	TITANIUM	UG/L	59	10	83	2758	2708	7
	VANADIUM	UG/L	12	5	58	570	516	110
	YTTRIUM	UG/L	1	L 7		115	106	7

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 58

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	THICKENED SEC. SLUDGE
CONVENTIONALS	BOD	MG/L	93	16	83	5134	6516
	TOTAL SUSP. SOLIDS	MG/L	116	11	91	40125	43124
	COD	MG/L	329	83	75	30000	30000
	OIL & GREASE	MG/L	20	17	15	3880	791
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	1158	390	66	1880	1338
	TOTAL SOLIDS	MG/L	NOT RUN	NOT RUN		36550	NOT RUN
	TOTAL VOLATILE SOLIDS	MG/L	NOT RUN	NOT RUN		23150	NOT RUN
	TOTAL VOL. SUS. SOLIDS	MG/L	76	8	89	25240	28528
	AMMONIA NITROGEN	MG/L	5	2	60	1	35
	TOC	MG/L	89	35	61	NOT RUN	NOT RUN
VOLATILES	BENZENE	UG/L	101	9	91	480	6
	CHLOROETHANE	UG/L	158	210		L 100	L 100
	CHLOROFORM	UG/L	1	0	100	L 25	L 25
	1,2-TRANS-DICHLOROETHYLENE	UG/L	L 10	L 10		411	L 25
	ETHYLBENZENE	UG/L	1	L 10		49	L 5
	METHYLENE CHLORIDE	UG/L	8	7	13	10	L 25
	METHYL CHLORIDE	UG/L	L 10	1		L 25	L 25
	DICHLORODIFLUOROMETHANE	UG/L	L 10	L 10		150	411
	TETRACHLOROETHYLENE	UG/L	9	L 10		L 25	L 25
	TOLUENE	UG/L	5	L 10		276	35751
	TRICHLOROETHYLENE	UG/L	2	L 10		175	L 25
ACID EXTRACT	2,4-DIMETHYLPHENOL	UG/L	3	L 67		L 50	L 50
	PENTACHLOROPHENOL	UG/L	L 67	L 67		200	L 200
	PHENOL	UG/L	795	6	99	L 30	145
BASE-NEUTRALS	2,4-DINITROTOLUENE	UG/L	2	L 21		L 50	L 50
	2,6-DINITROTOLUENE	UG/L	8	L 21		L 20	L 20
	1,2-DIPHENYLHYDRAZINE	UG/L	3	0	100	L 10	L 10
	FLUORANTHENE	UG/L	5	L 11		10450	1400
	NAPHTHALENE	UG/L	L 50	L 21		600	L 10
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	66	113		1853	660
	BUTYL BENZYL PHTHALATE	UG/L	L 50	L 21		996	390
	DI-N-BUTYL PHTHALATE	UG/L	9	3	67	124	25
	DI-N-OCTYL PHTHALATE	UG/L	6	1	83	L 20	L 20
	DIETHYL PHTHALATE	UG/L	5	0	100	115	L 10
	1,2-BENZANTHRACENE	UG/L	1	L 11		11150	1815
	BENZO (A)PYRENE	UG/L	L 25	L 11		84000	9500
	11,12-BENZOFLUORANTHENE	UG/L	L 25	L 11		1100	1150
	CHRYSENE	UG/L	1	L 11		11150	1815
	ANTHRACENE	UG/L	L 50	L 21		1175	104
	1,12-BENZOPERYLENE	UG/L	L 125	L 53		3250	L 30
	PHENANTHRENE	UG/L	L 50	L 21		1175	104
	PYRENE	UG/L	4	L 11		10545	1450
METALS	ANTIMONY	UG/L	33	8	76	184	107
	ARSENIC	UG/L	1	20		126	122
	BERYLLIUM	UG/L	L 1	L 1000		26	18
	CADMIUM	UG/L	8	3	63	655	458
	CHROMIUM	UG/L	96	36	63	18292	13233
	COPPER	UG/L	252	40	84	34873	27206

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 58

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY SLUDGE	THICKENED SEC. SLUDGE
METALS	CYANIDE	UG/L	164	65	60	254	257
	LEAD	UG/L	200	86	57	37539	30134
	MERCURY	NG/L	333	500		36500	51833
	NICKEL	UG/L	265	223	16	2704	1981
	SELENIUM	UG/L	3	181		901	1163
	SILVER	UG/L	11	13		130	202
	ZINC	UG/L	181	64	65	45588	27272
NON-CONV. METALS	ALUMINUM	UG/L	1401	298	79	579122	393595
	BARIUM	UG/L	183	103	44	29458	16346
	BORON	UG/L	344	335	3	2041	1690
	CALCIUM	MG/L	93	91	2	711	521
	COBALT	UG/L	19	12	37	1617	1204
	IRON	UG/L	1829	363	80	547703	387440
	MAGNESIUM	MG/L	28	28		139	129
	MANGANESE	UG/L	117	112	4	4025	2976
	MOLYBDENUM	UG/L	27	25	7	1372	1017
	SODIUM	MG/L	106	105	1	103	103
	TIN	UG/L	31	29	6	2459	1754
	TITANIUM	UG/L	11	6	45	475	371
	VANADIUM	UG/L	212	192	9	9447	6804
	YTTRIUM	UG/L	16	15	6	489	487

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 59

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	THICKENED COMB. SLUDGE	GRAV THCKNR OVERFLOW
CONVENTIONALS	BOD	MG/L	159	7	96	7350	79
	TOTAL SUSP. SOLIDS	MG/L	503	15	97	29974	86
	COD	MG/L	398	177	56	30000	249
	OIL & GREASE	MG/L	75	8	89	5692	26
NON-CONVENTIONALS	TOTAL PHENOLS	UG/L	195	43	78	2313	57
	TOTAL VOL. SUS. SOLIDS	MG/L	456	12	97	19495	70
	AMMONIA NITROGEN	MG/L	1	2		23	2
	TOC	MG/L	49	23	53	NOT RUN	31
VOLATILES	BENZENE	UG/L	7	L 10		50	L 10
	CHLOROBENZENE	UG/L	L 10	L 10		18	L 10
	1,1,1-TRICHLOROETHANE	UG/L	24	5	79	L 25	8
	1,1-DICHLOROETHANE	UG/L	L 10	L 10		56	L 10
	1,1,2-TRICHLOROETHANE	UG/L	L 10	L 10		6	L 10
	1,1,2,2-TETRACHLOROETHANE	UG/L	L 10	L 10		22	L 10
	CHLOROFORM	UG/L	8	7	13	8	5
	1,2-TRANS-DICHLOROETHYLENE	UG/L	3	L 10		3248	L 10
	1,2-DICHLOROPROPANE	UG/L	L 10	L 10		28	L 10
	ETHYLBENZENE	UG/L	50	0	100	322	6
	METHYLENE CHLORIDE	UG/L	65	47	28	26	71
	DICHLOROBROMOMETHANE	UG/L	L 10	L 10		321	L 10
	TETRACHLOROETHYLENE	UG/L	234	48	79	8	8
	TOLUENE	UG/L	315	4	99	243	0
	TRICHLOROETHYLENE	UG/L	69	11	84	127	50
ACID EXTRACT	2-CHLOROPHENOL	UG/L	7	L 60		L 40	L 70
	2,4-DIMETHYLPHENOL	UG/L	L 78	0		L 50	2
	4,6-DINITRO-O-CRESOL	UG/L	L 78	0		L 200	3
	PHENOL	UG/L	70	3	96	2417	2
BASE-NEUTRALS	BIS(2-CHLOROETHYL) ETHER	UG/L	L 34	L 42		L 40	0
	1,2-DICHLOROBENZENE	UG/L	2	0	100	L 30	1
	1,4-DICHLOROBENZENE	UG/L	L 34	L 42		L 30	1
	FLUORANTHENE	UG/L	L 17	L 21		146	L 13
	ISOPHORONE	UG/L	L 34	3		L 300	1
	NAPHTHALENE	UG/L	27	L 42		87	1
	NITROBENZENE	UG/L	37	1	97	L 100	7
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	295	40	86	26500	72
	DI-N-BUTYL PHTHALATE	UG/L	62	5	92	1559	16
	DI-N-OCTYL PHTHALATE	UG/L	6	1	83	L 20	6
	DIETHYL PHTHALATE	UG/L	10	5	50	L 20	20
	1,2-BENZANTHRACENE	UG/L	L 17	L 21		277	L 13
	11,12-BENZOFLUORANTHENE	UG/L	L 17	L 21		174	L 13
	CHRYSENE	UG/L	L 17	L 21		277	L 13
	ANTHRACENE	UG/L	L 34	L 23		325	L 26
	PHENANTHRENE	UG/L	L 34	L 23		325	L 26
	PYRENE	UG/L	L 17	L 21		247	L 13
PESTICIDES	4,4'-DDT	NG/L	L 1000	82		N-D	L 1000
METALS	ANTIMONY	UG/L	1	1		15	1
	ARSENIC	UG/L	1	1		13	0

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 59

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	THICKENED COMB. SLUDGE	GRAV THCKNR OVERFLOW
METALS	BERYLLIUM	UG/L	L 10	L 10		16	L 10
	CADMIUM	UG/L	L 100	L 100		84	L 100
	CHROMIUM	UG/L	458	242	47	6100	243
	COPPER	UG/L	170	18	89	18383	77
	CYANIDE	UG/L	38	14	63	L 10	5
	LEAD	UG/L	L 200	33		2167	L 200
	MERCURY	NG/L	400	67	83	27500	233
	NICKEL	UG/L	170	98	42	1540	145
	SELENIUM	UG/L	1	1		5	0
	SILVER	UG/L	10	2	80	943	6
	ZINC	UG/L	793	205	74	13267	531
NON-CONV. METALS	ALUMINUM	UG/L	12517	350	97	NOT RUN	1628
	BARIUM	UG/L	167	67	60	NOT RUN	102
	BORON	UG/L	448	362	19	NOT RUN	423
	CALCIUM	MG/L	48	45	6	NOT RUN	50
	IRON	UG/L	2063	521	75	NOT RUN	906
	MAGNESIUM	MG/L	8	8		NOT RUN	9
	MANGANESE	UG/L	239	408		NOT RUN	228
	SODIUM	MG/L	86	87		NOT RUN	93
	TITANIUM	UG/L	13	8	38	NOT RUN	9
	VANADIUM	UG/L	9	6	33	NOT RUN	6

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 60

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	THICKENED COMB SLUDGE	HEAT TREAT COMB SLUDGE	OTHER INFLUENT
CONV.	BOD	MG/L	557	17	97	300	10375	39500	1633
	TOTAL SUSP. SOLIDS	MG/L	442	33	93	110	43000	186500	1133
	COD	MG/L	1297	88	93	748	28000	30000	3617
	OIL & GREASE	MG/L	100	23	77	55	1325	14050	393
NON-CONV.	TOTAL PHENOLS	UG/L	273	L 5	98	156	5175	3475	917
	TOTAL VOL. SUS. SOLIDS	MG/L	328	24	93	87	28000	103750	865
	AMMONIA NITROGEN	MG/L	5	6		3	122	95	34
	TOC	MG/L	323	108	67	229	10700	13544	1005
VOLATILES	BENZENE	UG/L	2	L 10		2	2	38	22
	CHLOROBENZENE	UG/L	L 10	L 10		L 10	L 10	7	L 10
	1,2-DICHLOROETHANE	UG/L	1	0	100	7	22	L 25	L 10
	1,1,1-TRICHLOROETHANE	UG/L	493	28	94	388	12	L 25	L 10
	1,1-DICHLOROETHANE	UG/L	15	L 10	33	15	403	2	L 10
	CHLOROETHANE	UG/L	L 10	L 10		L 10	7	L 100	L 10
	CHLOROFORM	UG/L	2	1	50	2	0	4	1
	1,1-DICHLOROETHYLENE	UG/L	8	L 10		8	L 25	22	L 10
	1,2-TRANS-DICHLOROETHYLENE	UG/L	12	L 10	17	12	138	8	L 10
	ETHYLBENZENE	UG/L	7	0	100	5	51	103	66
	METHYLENE CHLORIDE	UG/L	6	4	33	33	227	111	L 10
	TRICHLOROFLUOROMETHANE	UG/L	0	L 7		L 10	L 25	24	L 10
	DICHLORODIFLUOROMETHANE	UG/L	L 10	L 10		L 10	L 100	4	L 10
	TETRACHLOROETHYLENE	UG/L	23	1	96	19	L 25	127	L 10
	TOLUENE	UG/L	17	L 10	41	12	2402537	214	74
	TRICHLOROETHYLENE	UG/L	10	0	100	10	L 25	21	L 10
	VINYL CHLORIDE	UG/L	3	L 10		2	L 100	L 100	L 10
ACIDS	PARACHLOROMETA CRESOL	UG/L	1	L 25		1	L 100	L 100	L 50
	2,4-DIMETHYLPHENOL	UG/L	L 25	L 25		L 25	L 50	L 50	0
	4-NITROPHENOL	UG/L	170	L 25	85	L 25	L 300	L 300	336
	2,4-DINITROPHENOL	UG/L	L 25	L 25		L 25	L 600	L 600	42
	PENTACHLOROPHENOL	UG/L	2	L 25		1	L 200	L 300	5
	PHENOL	UG/L	241	1	100	110	2000	1825	384
BASE-NEUT.	ACENAPHTHENE	UG/L	L 10	L 10		L 10	L 20	123	0
	1,2-DICHLOROBENZENE	UG/L	100	2	98	42	378	1725	78
	1,3-DICHLOROBENZENE	UG/L	L 10	L 10		L 10	152	45	7
	1,4-DICHLOROBENZENE	UG/L	19	1	95	9	650	454	53
	FLUORANTHENE	UG/L	L 5	L 5		L 5	178	221	L 10
	NAPHTHALENE	UG/L	187	L 10	95	123	1168	1870	232
	NITROBENZENE	UG/L	L 10	L 10		L 10	L 100	L 100	65
	BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	97	26	73	30	2865	2410380	9
	BUTYL BENZYL PHTHALATE	UG/L	14	L 10	29	7	45	L 20	L 20
	DI-N-BUTYL PHTHALATE	UG/L	15	1	93	8	32	153	5
	DI-N-OCTYL PHTHALATE	UG/L	1	L 10		L 10	L 20	L 20	L 20
	DIETHYL PHTHALATE	UG/L	8	2	75	9	L 10	L 10	L 20
	DIMETHYL PHTHALATE	UG/L	2	0	100	2	L 20	L 20	L 20
	ACENAPHTHYLENE	UG/L	L 10	L 10		L 10	13	L 10	L 20
	ANTHRACENE	UG/L	1	L 10		L 10	L 10	L 10	0
	PHENANTHRENE	UG/L	1	L 10		L 10	432	1007	L 20
	PYRENE	UG/L	L 5	L 5		L 5	140	174	L 10

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

SUMMARY OF ANALYTICAL DATA

PLANT 60

FRACTION	PARAMETER	UNITS	INFLUENT	SECONDARY EFFLUENT	PCNT REM.	PRIMARY EFFLUENT	THICKENED COMB SLUDGE	HEAT TREAT COMB SLUDGE	OTHER INFLUENT
PESTICIDES	ALDRIN	NG/L	317	17	95	L 1000	N-D	N-D	N-D
	4,4'-DDE	NG/L	67	L 1000		L 1000	N-D	N-D	N-D
	ALPHA-ENDOSULFAN	NG/L	L 1000	222		L 1000	N-D	N-D	N-D
	BETA-ENDOSULFAN	NG/L	L 1000	113		L 1000	N-D	N-D	N-D
	HEPTACHLOR EPOXIDE	NG/L	150	33	78	83	N-D	N-D	N-D
	ALPHA-BHC	NG/L	L 1000	133		L 1000	N-D	N-D	N-D
	BETA-BHC	NG/L	L 1000	83		300	N-D	N-D	N-D
	GAMMA-BHC	NG/L	150	L 1000		L 1000	N-D	N-D	N-D
	DELTA-BHC	NG/L	850	50	94	100	N-D	N-D	N-D
METALS	ANTIMONY	UG/L	5	0	100	1	51	98	NOT RUN
	ARSENIC	UG/L	1	1		4	52	58	NOT RUN
	BERYLLIUM	UG/L	L 1	L 1		L 1	15	L 64	NOT RUN
	CADMIUM	UG/L	2	L 2		L 2	241	238	13
	CHROMIUM	UG/L	4175	106	97	819	66667	277667	44700
	COPPER	UG/L	104	9	91	49	6167	21250	144
	CYANIDE	UG/L	54	88		64	3125	1675	8
	LEAD	UG/L	260	L 40	85	22	18875	26200	237
	MERCURY	NG/L	2000	L 1000	50	167	284750	425000	1833
	NICKEL	UG/L	140	119	15	152	2667	8525	7
	SELENIUM	UG/L	1	1		0	24	37	NOT RUN
	SILVER	UG/L	3	0	100	1	207	243	NOT RUN
	THALLIUM	UG/L	L 1	0		0	L 34	L 23	NOT RUN
	ZINC	UG/L	1520	111	93	737	67333	235000	157
N-C METALS	ALUMINUM	UG/L	1015	169	83	331	NOT RUN	NOT RUN	1177
	BARIUM	UG/L	75	21	72	39	NOT RUN	NOT RUN	NOT RUN
	BORON	UG/L	451	503		560	NOT RUN	NOT RUN	NOT RUN
	CALCIUM	MG/L	131867	81700	38	77417	NOT RUN	NOT RUN	364333
	IRON	UG/L	2546	349	86	2620	NOT RUN	NOT RUN	3642
	MAGNESIUM	MG/L	17917	15383	14	14200	NOT RUN	NOT RUN	25610
	MANGANESE	UG/L	1176	102	91	514	NOT RUN	NOT RUN	191
	SODIUM	MG/L	303783	268500	12	250183	NOT RUN	NOT RUN	1295000
	TIN	UG/L	104	112		70	NOT RUN	NOT RUN	NOT RUN
	TITANIUM	UG/L	24	5	79	3	NOT RUN	NOT RUN	L 500
	VANADIUM	UG/L	1	0	100	L 1	NOT RUN	NOT RUN	NOT RUN

POLLUTANTS NOT LISTED WERE NEVER DETECTED
L=LESS THAN; N-D=NOT DETECTED;

APPENDIX D

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANTS 1 to 40 AND 51 to 60

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 1

PARAMETER	AVG INFL	PRE CL EFFL	SEC EFFL	PRIM SLDG	COMB SLDG	SEC SLDG	FLOT ABLES	FILT RATE	TAP WATER
BENZENE	100 (7)	33 (3)	86 (7)	100 (7)	0 ( )	57 (7)	86 (7)	0 (1)	100 (1)
1,1,1-TRICHLOROETHANE	100 (7)	100 (3)	100 (7)	57 (7)	0 ( )	0 (7)	14 (7)	0 (1)	0 (1)
CHLOROFORM	100 (7)	100 (3)	100 (7)	0 (7)	0 ( )	0 (7)	0 (7)	100 (1)	100 (1)
1,1-DICHLOROETHYLENE	100 (7)	100 (3)	100 (7)	29 (7)	0 ( )	0 (7)	0 (7)	0 (1)	100 (1)
1,2-TRANS-DICHLOROETHYLENE	100 (7)	0 (3)	43 (7)	43 (7)	0 ( )	0 (7)	29 (7)	100 (1)	0 (1)
ETHYLBENZENE	100 (7)	0 (3)	100 (7)	100 (7)	0 ( )	29 (7)	86 (7)	100 (1)	0 (1)
METHYLENE CHLORIDE	100 (7)	100 (3)	100 (7)	100 (7)	0 ( )	100 (7)	100 (7)	100 (1)	100 (1)
TETRACHLOROETHYLENE	100 (7)	100 (3)	100 (7)	100 (7)	0 ( )	71 (7)	71 (7)	100 (1)	100 (1)
TOLUENE	100 (7)	100 (3)	100 (7)	100 (7)	0 ( )	29 (7)	86 (7)	100 (1)	100 (1)
TRICHLOROETHYLENE	100 (7)	100 (3)	100 (7)	100 (7)	0 ( )	14 (7)	71 (7)	100 (1)	0 (1)
PHENOL	100 (7)	100 (3)	100 (7)	29 (7)	17 (6)	20 (5)	29 (7)	100 (1)	100 (1)
NAPHTHALENE	100 (7)	0 (3)	43 (7)	71 (7)	50 (6)	20 (5)	57 (7)	0 (1)	0 (1)
BIS(2-ETHYLHEXYL) PHTHALATE	100 (7)	100 (3)	100 (7)	86 (7)	83 (6)	40 (5)	86 (7)	100 (1)	100 (1)
DI-N-BUTYL PHTHALATE	100 (7)	33 (3)	57 (7)	0 (7)	0 (6)	0 (5)	14 (7)	100 (1)	100 (1)
DIETHYL PHTHALATE	100 (7)	0 (3)	29 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
ANTHRACENE	100 (7)	0 (3)	43 (7)	86 (7)	83 (6)	40 (5)	100 (7)	100 (1)	0 (1)
PHENANTHRENE	100 (7)	0 (3)	43 (7)	86 (7)	83 (6)	40 (5)	100 (7)	100 (1)	0 (1)
CADMIUM	100 (7)	67 (3)	71 (7)	100 (7)	100 (7)	100 (7)	100 (7)	100 (1)	100 (1)
CHROMIUM	100 (7)	100 (3)	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)	100 (1)	0 (1)
COPPER	100 (7)	100 (3)	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)	100 (1)	0 (1)
CYANIDE	100 (7)	0 ( )	100 (7)	100 (7)	0 ( )	57 (7)	0 (7)	0 (1)	0 (1)
MERCURY	100 (7)	33 (3)	100 (7)	29 (7)	29 (7)	14 (7)	14 (7)	0 (1)	100 (1)
NICKEL	100 (7)	100 (3)	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)	100 (1)	100 (1)
ZINC	100 (7)	100 (3)	100 (7)	100 (7)	100 (7)	100 (7)	100 (7)	100 (1)	0 (1)
PENTACHLOROPHENOL	86 (7)	67 (3)	14 (7)	14 (7)	17 (6)	20 (5)	29 (7)	0 (1)	0 (1)
BUTYL BENZYL PHTHALATE	86 (7)	0 (3)	43 (7)	14 (7)	0 (6)	0 (5)	43 (7)	0 (1)	0 (1)
LEAD	86 (7)	0 (3)	0 (7)	100 (7)	100 (7)	100 (7)	86 (7)	0 (1)	100 (1)
SILVER	86 (7)	0 (3)	0 (7)	100 (7)	100 (7)	100 (7)	86 (7)	0 (1)	100 (1)
1,2-DICHLOROBENZENE	71 (7)	0 (3)	14 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
1,4-DICHLOROBENZENE	71 (7)	0 (3)	29 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
DIMETHYL PHTHALATE	71 (7)	0 (3)	14 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
FLUORENE	71 (7)	0 (3)	14 (7)	43 (7)	33 (6)	0 (5)	14 (7)	100 (1)	0 (1)
PYRENE	71 (7)	0 (3)	57 (7)	71 (7)	67 (6)	0 (5)	100 (7)	0 (1)	0 (1)
1,3-DICHLOROBENZENE	57 (7)	0 (3)	14 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
FLUORANTHENE	57 (7)	0 (3)	43 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
CARBON TETRACHLORIDE	43 (7)	0 (3)	0 (7)	29 (7)	0 ( )	29 (7)	29 (7)	0 (1)	100 (1)
1,1-DICHLOROETHANE	43 (7)	0 (3)	0 (7)	57 (7)	0 ( )	0 (7)	0 (7)	0 (1)	0 (1)
1,1,2-TRICHLOROETHANE	43 (7)	0 (3)	0 (7)	0 (7)	0 ( )	0 (7)	0 (7)	0 (1)	0 (1)
CHLOROBENZENE	29 (7)	0 (3)	0 (7)	0 (7)	0 ( )	0 (7)	0 (7)	0 (1)	0 (1)
ACENAPHTHENE	29 (7)	0 (3)	0 (7)	57 (7)	50 (6)	0 (5)	43 (7)	0 (1)	0 (1)
BIS(2-CHLOROETHYOXY) METHANE	29 (7)	0 (3)	0 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
1,2-BENZANTHRACENE	29 (7)	0 (3)	14 (7)	86 (7)	67 (6)	0 (5)	86 (7)	0 (1)	0 (1)
CHRYSENE	29 (7)	0 (3)	14 (7)	86 (7)	67 (6)	0 (5)	86 (7)	0 (1)	0 (1)
1,2-DICHLOROETHANE	14 (7)	0 (3)	0 (7)	0 (7)	0 ( )	0 (7)	0 (7)	0 (1)	0 (1)
1,2-DICHLOROPROPANE	14 (7)	0 (3)	0 (7)	0 (7)	0 ( )	0 (7)	0 (7)	0 (1)	0 (1)
METHYL CHLORIDE	14 (7)	0 (3)	0 (7)	0 (7)	0 ( )	0 (7)	0 (7)	0 (1)	0 (1)
DICHLOROBROMOMETHANE	14 (7)	0 (3)	57 (7)	100 (7)	0 ( )	86 (7)	86 (7)	0 (1)	100 (1)
TRICHLOROFLUOROMETHANE	14 (7)	0 (3)	14 (7)	0 (7)	0 ( )	0 (7)	0 (7)	0 (1)	0 (1)
2,4,6-TRICHLOROPHENOL	14 (7)	0 (3)	0 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
PARACHLOROMETA CRESOL	14 (7)	0 (3)	0 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
1,2,4-TRICHLOROBENZENE	14 (7)	0 (3)	0 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
HEXACHLOROBENZENE	14 (7)	0 (3)	0 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 1

PARAMETER	AVG INFL	PRE CL EFFL	SEC EFFL	PRIM SLDG	COMB SLDG	SEC SLDG	FLOT ABLES	FILT RATE	TAP WATER
HEXACHLOROBUTADIENE	14 (7)	0 (3)	0 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
DI-N-OCTYL PHTHALATE	14 (7)	0 (3)	14 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
ACENAPHTHYLENE	14 (7)	0 (3)	0 (7)	0 (7)	0 (6)	0 (5)	0 (7)	100 (1)	0 (1)
1,12-BENZOPERYLENE	14 (7)	0 (3)	0 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
1,2:5,6-DIBENZANTHRACENE	14 (7)	0 (3)	14 (7)	0 (7)	0 (6)	20 (5)	0 (7)	0 (1)	0 (1)
INDENO(1,2,3-C,D) PYRENE	14 (7)	0 (3)	14 (7)	0 (7)	0 (6)	20 (5)	0 (7)	0 (1)	0 (1)
ACRYLONITRILE	0 (7)	0 (3)	0 (7)	0 (7)	0 ( )	14 (7)	14 (7)	0 (1)	0 (1)
CHLORODIBROMOMETHANE	0 (7)	0 (3)	0 (7)	43 (7)	0 ( )	57 (7)	71 (7)	0 (1)	0 (1)
2-CHLOROPHENOL	0 (7)	0 (3)	14 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
2,4-DIMETHYLPHENOL	0 (7)	33 (3)	14 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
3,3'-DICHLOROBENZIDINE	0 (7)	0 (3)	14 (7)	0 (7)	0 (6)	0 (5)	0 (7)	0 (1)	0 (1)
3,4-BENZOFLUORANTHENE	0 (7)	0 (3)	0 (7)	71 (7)	50 (6)	20 (5)	86 (7)	0 (1)	0 (1)
ANTIMONY	0 (7)	0 (3)	0 (7)	100 (7)	100 (7)	86 (7)	29 (7)	0 (1)	100 (1)
ARSENIC	0 (7)	0 (3)	0 (7)	100 (7)	100 (7)	100 (7)	43 (7)	100 (1)	0 (1)
BERYLLIUM	0 (7)	0 (3)	0 (7)	100 (7)	100 (7)	100 (7)	100 (7)	0 (1)	0 (1)
SELENIUM	0 (7)	0 (3)	0 (7)	43 (7)	29 (7)	86 (7)	29 (7)	0 (1)	0 (1)
THALLIUM	0 (7)	0 (3)	0 (7)	100 (7)	43 (7)	71 (7)	86 (7)	0 (1)	0 (1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 2

PARAMETER	INFLUENT		PRE CL EFFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE		SECONDARY SLUDGE		DAF SLUDGE		TAP WATER	
BENZENE	100	(7)	43	(7)	57	(7)	86	(7)	100	(1)	100	(1)	0	(1)
CHLOROFORM	100	(7)	86	(7)	100	(7)	0	(7)	0	(1)	0	(1)	100	(1)
ETHYLBENZENE	100	(7)	29	(7)	29	(7)	29	(7)	100	(1)	100	(1)	0	(1)
METHYLENE CHLORIDE	100	(7)	100	(7)	86	(7)	100	(7)	100	(1)	100	(1)	100	(1)
TETRACHLOROETHYLENE	100	(7)	86	(7)	100	(7)	86	(7)	0	(1)	100	(1)	0	(1)
TOLUENE	100	(7)	100	(7)	100	(7)	86	(7)	100	(1)	100	(1)	100	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(7)	86	(7)	86	(7)	100	(7)	0	( )	0	( )	100	(1)
BUTYL BENZYL PHTHALATE	100	(7)	43	(7)	57	(7)	14	(7)	0	( )	0	( )	100	(1)
CHROMIUM	100	(7)	100	(6)	100	(7)	100	(7)	0	( )	0	( )	0	(1)
COPPER	100	(7)	100	(6)	100	(7)	100	(7)	0	( )	0	( )	100	(1)
CYANIDE	100	(7)	0	( )	100	(7)	100	(7)	100	(1)	100	(1)	0	(1)
NICKEL	100	(7)	100	(6)	100	(7)	100	(7)	0	( )	0	( )	0	(1)
ZINC	100	(7)	100	(6)	100	(7)	86	(7)	0	( )	0	( )	100	(1)
1,1,1-TRICHLOROETHANE	86	(7)	14	(7)	14	(7)	0	(7)	0	(1)	0	(1)	0	(1)
TRICHLOROETHYLENE	86	(7)	43	(7)	14	(7)	0	(7)	0	(1)	0	(1)	0	(1)
DI-N-BUTYL PHTHALATE	86	(7)	57	(7)	57	(7)	0	(7)	0	( )	0	( )	100	(1)
DIETHYL PHTHALATE	86	(7)	29	(7)	29	(7)	0	(7)	0	( )	0	( )	100	(1)
CADMIUM	86	(7)	0	(6)	0	(7)	100	(7)	0	( )	0	( )	0	(1)
PHENOL	71	(7)	100	(7)	86	(7)	14	(7)	0	( )	0	( )	100	(1)
1,2-DICHLOROBENZENE	71	(7)	14	(7)	29	(7)	0	(7)	0	( )	0	( )	100	(1)
NAPHTHALENE	71	(7)	14	(7)	29	(7)	43	(7)	0	( )	0	( )	0	(1)
MERCURY	71	(7)	17	(6)	29	(7)	29	(7)	0	( )	0	( )	0	(1)
1,1-DICHLOROETHYLENE	57	(7)	43	(7)	57	(7)	0	(7)	0	(1)	0	(1)	0	(1)
DICHLOROBROMOMETHANE	57	(7)	57	(7)	86	(7)	100	(7)	100	(1)	100	(1)	0	(1)
DI-N-OCTYL PHTHALATE	57	(7)	29	(7)	14	(7)	0	(7)	0	( )	0	( )	0	(1)
1,2-DICHLOROETHANE	43	(7)	29	(7)	29	(7)	0	(7)	0	(1)	0	(1)	0	(1)
FLUORANTHENE	43	(7)	0	(7)	0	(7)	0	(7)	0	( )	0	( )	0	(1)
DIMETHYL PHTHALATE	43	(7)	29	(7)	29	(7)	0	(7)	0	( )	0	( )	0	(1)
PYRENE	43	(7)	0	(7)	0	(7)	71	(7)	0	( )	0	( )	0	(1)
CHLOROBENZENE	29	(7)	14	(7)	0	(7)	0	(7)	0	(1)	0	(1)	0	(1)
1,1-DICHLOROETHANE	29	(7)	0	(7)	0	(7)	0	(7)	0	(1)	0	(1)	0	(1)
CHLORODIBROMOMETHANE	29	(7)	43	(7)	57	(7)	29	(7)	0	(1)	0	(1)	100	(1)
ANTHRACENE	29	(7)	0	(7)	0	(7)	71	(7)	0	( )	0	( )	0	(1)
PHENANTHRENE	29	(7)	0	(7)	0	(7)	71	(7)	0	( )	0	( )	0	(1)
LEAD	29	(7)	17	(6)	14	(7)	100	(7)	0	( )	0	( )	0	(1)
SILVER	29	(7)	17	(6)	14	(7)	86	(7)	0	( )	0	( )	0	(1)
1,2-DICHLOROPROPANE	14	(7)	0	(7)	0	(7)	0	(7)	0	(1)	0	(1)	0	(1)
PENTACHLOROPHENOL	14	(7)	43	(7)	14	(7)	0	(7)	0	( )	0	( )	0	(1)
1,3-DICHLOROBENZENE	14	(7)	29	(7)	57	(7)	0	(7)	0	( )	0	( )	0	(1)
1,4-DICHLOROBENZENE	14	(7)	0	(7)	0	(7)	0	(7)	0	( )	0	( )	0	(1)
2,6-DINITROTOLUENE	14	(7)	0	(7)	0	(7)	0	(7)	0	( )	0	( )	0	(1)
ISOPHORONE	14	(7)	0	(7)	0	(7)	0	(7)	0	( )	0	( )	0	(1)
BENZO (A)PYRENE	14	(7)	0	(7)	0	(7)	0	(7)	0	( )	0	( )	0	(1)
3,4-BENZOFLUORANTHENE	14	(7)	0	(7)	0	(7)	71	(7)	0	( )	0	( )	0	(1)
11,12-BENZOFLUORANTHENE	14	(7)	0	(7)	0	(7)	0	(7)	0	( )	0	( )	0	(1)
ACRYLONITRILE	0	(7)	0	(7)	0	(7)	14	(7)	0	(1)	0	(1)	0	(1)
1,3-DICHLOROPROPYLENE	0	(7)	0	(7)	0	(7)	0	(7)	0	(1)	100	(1)	0	(1)
BROMOFORM	0	(7)	0	(7)	0	(7)	0	(7)	0	(1)	100	(1)	100	(1)
TRICHLOROFLUOROMETHANE	0	(7)	14	(7)	0	(7)	0	(7)	0	(1)	0	(1)	0	(1)
DICHLORODIFLUOROMETHANE	0	(7)	0	(7)	0	(7)	0	(7)	0	(1)	100	(1)	0	(1)
2-NITROPHENOL	0	(7)	71	(7)	43	(7)	0	(7)	0	( )	0	( )	0	(1)
4-NITROPHENOL	0	(7)	43	(7)	29	(7)	0	(7)	0	( )	0	( )	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 2

PARAMETER	INFLUENT		PRE CL EFFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE		SECONDARY SLUDGE		DAF SLUDGE		TAP WATER	
3,3'-DICHLOROBENZIDINE	0	(7)	0	(7)	14	(7)	0	(7)	0	( )	0	( )	0	(1)
1,2-BENZANTHRACENE	0	(7)	14	(7)	14	(7)	29	(7)	0	( )	0	( )	0	(1)
CHRYSENE	0	(7)	14	(7)	14	(7)	29	(7)	0	( )	0	( )	0	(1)
ACENAPHTHYLENE	0	(7)	14	(7)	29	(7)	0	(7)	0	( )	0	( )	0	(1)
ANTIMONY	0	(7)	0	(6)	0	(7)	100	(7)	0	( )	0	( )	0	(1)
ARSENIC	0	(7)	0	(6)	0	(7)	100	(7)	0	( )	0	( )	0	(1)
BERYLLIUM	0	(7)	0	(6)	0	(7)	86	(7)	0	( )	0	( )	0	(1)
SELENIUM	0	(7)	0	(6)	0	(7)	86	(7)	0	( )	0	( )	0	(1)
THALLIUM	0	(7)	0	(6)	0	(7)	43	(7)	0	( )	0	( )	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 3

PARAMETER	AVERAGE INFLUENT		PRE CL EFFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		COMBINED SLUDGE		THICKENER OVERFLOW		TAP WATER	
BENZENE	100	(4)	0	(4)	0	(4)	67	(3)	25	(4)	0	(1)	0	(1)
1,1,1-TRICHLOROETHANE	100	(4)	100	(4)	100	(4)	33	(3)	0	(4)	100	(1)	0	(1)
CHLOROFORM	100	(4)	100	(4)	100	(4)	0	(3)	0	(4)	100	(1)	100	(1)
ETHYLBENZENE	100	(4)	0	(4)	0	(4)	33	(3)	75	(4)	100	(1)	0	(1)
METHYLENE CHLORIDE	100	(4)	100	(4)	100	(4)	33	(3)	25	(4)	100	(1)	100	(1)
TETRACHLOROETHYLENE	100	(4)	75	(4)	50	(4)	0	(3)	100	(4)	100	(1)	0	(1)
TOLUENE	100	(4)	25	(4)	25	(4)	33	(3)	75	(4)	100	(1)	0	(1)
TRICHLOROETHYLENE	100	(4)	75	(4)	25	(4)	67	(3)	0	(4)	100	(1)	100	(1)
PHENOL	100	(4)	0	(4)	0	(4)	67	(3)	100	(4)	100	(1)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(4)	100	(4)	100	(4)	100	(3)	75	(4)	100	(1)	100	(1)
BUTYL BENZYL PHTHALATE	100	(4)	0	(4)	0	(4)	33	(3)	0	(4)	0	(1)	0	(1)
DI-N-BUTYL PHTHALATE	100	(4)	50	(4)	100	(4)	33	(3)	50	(4)	100	(1)	100	(1)
DIETHYL PHTHALATE	100	(4)	25	(4)	25	(4)	0	(3)	0	(4)	0	(1)	0	(1)
CADMIUM	100	(4)	67	(3)	75	(4)	100	(3)	100	(4)	0	(1)	100	(1)
CHROMIUM	100	(4)	67	(3)	100	(4)	100	(3)	100	(4)	100	(1)	100	(1)
COPPER	100	(4)	100	(3)	100	(4)	100	(3)	100	(4)	100	(1)	100	(1)
CYANIDE	100	(4)	100	(4)	100	(4)	100	(3)	100	(4)	100	(1)	0	(1)
LEAD	100	(4)	67	(3)	100	(4)	100	(3)	100	(4)	100	(1)	100	(1)
NICKEL	100	(4)	67	(3)	100	(4)	100	(3)	100	(4)	100	(1)	100	(1)
ZINC	100	(4)	100	(3)	100	(4)	100	(3)	100	(4)	100	(1)	0	(1)
1,1-DICHLOROETHYLENE	75	(4)	0	(4)	0	(4)	67	(3)	0	(4)	100	(1)	0	(1)
NAPHTHALENE	75	(4)	0	(4)	0	(4)	67	(3)	0	(4)	100	(1)	0	(1)
DI-N-OCTYL PHTHALATE	75	(4)	0	(4)	0	(4)	0	(3)	0	(4)	0	(1)	0	(1)
ARSENIC	75	(4)	33	(3)	0	(4)	100	(3)	100	(4)	100	(1)	0	(1)
DIMETHYL PHTHALATE	50	(4)	0	(4)	0	(4)	0	(3)	0	(4)	0	(1)	0	(1)
ANTHRACENE	50	(4)	0	(4)	0	(4)	100	(3)	100	(4)	0	(1)	0	(1)
PHENANTHRENE	50	(4)	0	(4)	0	(4)	100	(3)	100	(4)	0	(1)	0	(1)
SILVER	50	(4)	0	(3)	0	(4)	100	(3)	100	(4)	0	(1)	0	(1)
1,2-DICHLOROPROPANE	25	(4)	0	(4)	0	(4)	33	(3)	0	(4)	0	(1)	0	(1)
TRICHLOROFLUOROMETHANE	25	(4)	0	(4)	0	(4)	0	(3)	0	(4)	0	(1)	0	(1)
1,2-DICHLOROBENZENE	25	(4)	0	(4)	0	(4)	0	(3)	0	(4)	0	(1)	0	(1)
1,3-DICHLOROBENZENE	25	(4)	0	(4)	0	(4)	0	(3)	0	(4)	0	(1)	0	(1)
1,4-DICHLOROBENZENE	25	(4)	0	(4)	0	(4)	33	(3)	0	(4)	0	(1)	0	(1)
FLUORANTHENE	25	(4)	0	(4)	0	(4)	100	(3)	100	(4)	0	(1)	0	(1)
1,2-BENZANTHRACENE	25	(4)	0	(4)	0	(4)	33	(3)	0	(4)	0	(1)	0	(1)
BENZO (A)PYRENE	25	(4)	0	(4)	0	(4)	0	(3)	0	(4)	0	(1)	0	(1)
3,4-BENZOFLUORANTHENE	25	(4)	0	(4)	0	(4)	0	(3)	0	(4)	0	(1)	0	(1)
11,12-BENZOFLUORANTHENE	25	(4)	0	(4)	0	(4)	0	(3)	0	(4)	0	(1)	0	(1)
CHRYSENE	25	(4)	0	(4)	0	(4)	33	(3)	0	(4)	0	(1)	0	(1)
PYRENE	25	(4)	0	(4)	0	(4)	100	(3)	100	(4)	0	(1)	0	(1)
METHYL CHLORIDE	0	(4)	0	(4)	0	(4)	33	(3)	0	(4)	0	(1)	0	(1)
DICHLOROBROMOMETHANE	0	(4)	0	(4)	25	(4)	0	(3)	0	(4)	0	(1)	100	(1)
CHLORODIBROMOMETHANE	0	(4)	0	(4)	25	(4)	0	(3)	0	(4)	0	(1)	0	(1)
VINYL CHLORIDE	0	(4)	0	(4)	0	(4)	67	(3)	0	(4)	0	(1)	0	(1)
PENTACHLOROPHENOL	0	(4)	0	(4)	0	(4)	0	(3)	25	(4)	0	(1)	0	(1)
1,2,4-TRICHLOROBENZENE	0	(4)	0	(4)	0	(4)	67	(3)	0	(4)	0	(1)	0	(1)
FLUORENE	0	(4)	0	(4)	0	(4)	33	(3)	0	(4)	0	(1)	0	(1)
ANTIMONY	0	(4)	0	(3)	0	(4)	100	(3)	100	(4)	0	(1)	0	(1)
BERYLLIUM	0	(4)	0	(3)	25	(4)	100	(3)	100	(4)	0	(1)	0	(1)
MERCURY	0	(4)	0	(3)	0	(4)	100	(3)	75	(4)	0	(1)	0	(1)
SELENIUM	0	(4)	0	(3)	0	(4)	100	(3)	100	(4)	0	(1)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 4

PARAMETER	INFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE		DIGESTED SLUDGE	
BOD	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL SUSP. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
COD	100	(6)	100	(6)	100	(6)	100	(6)
OIL & GREASE	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL PHENOLS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL DISS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
SETTLEABLE SOLIDS	100	(6)	17	(6)	0	( )	0	( )
TOTAL VOLATILE SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
VOLATILE DISS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL VOL. SUS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
AMMONIA NITROGEN	100	(6)	100	(6)	100	(6)	100	(6)
TOC	100	(6)	100	(6)	100	(6)	100	(6)
1,1,1-TRICHLOROETHANE	100	(6)	100	(6)	50	(6)	17	(6)
CHLOROFORM	100	(6)	100	(6)	17	(6)	0	(6)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	100	(6)	100	(6)	83	(6)
METHYLENE CHLORIDE	100	(6)	100	(6)	100	(6)	50	(6)
TRICHLOROETHYLENE	100	(6)	100	(6)	100	(3)	33	(6)
PENTACHLOROPHENOL	100	(6)	0	(6)	50	(6)	0	(6)
PHENOL	100	(6)	50	(6)	67	(6)	50	(6)
1,2-DICHLOROBENZENE	100	(6)	50	(6)	50	(6)	50	(6)
NAPHTHALENE	100	(6)	0	(6)	100	(6)	100	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	100	(6)
BUTYL BENZYL PHTHALATE	100	(6)	83	(6)	67	(6)	100	(6)
DI-N-BUTYL PHTHALATE	100	(6)	100	(6)	83	(6)	33	(6)
DIETHYL PHTHALATE	100	(6)	33	(6)	0	(6)	0	(6)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)
LEAD	100	(6)	83	(6)	100	(6)	100	(6)
MERCURY	100	(6)	100	(6)	100	(5)	100	(6)
SILVER	100	(6)	33	(6)	100	(6)	100	(6)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)
ALUMINUM	100	(6)	100	(6)	0	( )	0	( )
BARIUM	100	(6)	100	(6)	0	( )	0	( )
CALCIUM	100	(6)	100	(6)	0	( )	0	( )
IRON	100	(6)	100	(6)	0	( )	0	( )
MAGNESIUM	100	(6)	100	(6)	0	( )	0	( )
MANGANESE	100	(6)	100	(6)	0	( )	0	( )
SODIUM	100	(6)	100	(6)	0	( )	0	( )
1,1,2,2-TETRACHLOROETHANE	83	(6)	50	(6)	60	(5)	33	(6)
1,1-DICHLOROETHYLENE	83	(6)	83	(6)	33	(6)	17	(6)
ETHYLBENZENE	83	(6)	0	(6)	83	(6)	100	(6)
TOLUENE	83	(6)	17	(6)	100	(6)	100	(6)
1,4-DICHLOROBENZENE	83	(6)	50	(6)	67	(6)	67	(6)
CYANIDE	83	(6)	67	(6)	100	(6)	100	(6)
NICKEL	83	(6)	33	(6)	100	(6)	100	(6)
TETRACHLOROETHYLENE	67	(6)	100	(6)	83	(6)	33	(6)
CADMIUM	67	(6)	17	(6)	100	(6)	100	(6)
2,4-DIMETHYLPHENOL	50	(6)	0	(6)	0	(6)	0	(6)
GAMMA-BHC	50	(6)	67	(6)	0	(6)	0	(6)
DIMETHYL PHTHALATE	17	(6)	0	(6)	0	(6)	0	(6)
ANTHRACENE	17	(6)	0	(6)	100	(6)	100	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 4

PARAMETER	INFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE		DIGESTED SLUDGE	
PHENANTHRENE	17	(6)	0	(6)	100	(6)	100	(6)
INDENO(1,2,3-C,D) PYRENE	17	(6)	0	(6)	0	(6)	0	(6)
DIELDRIN	17	(6)	0	(6)	0	(6)	0	(6)
HEPTACHLOR	17	(6)	0	(6)	0	(6)	0	(6)
BENZENE	0	(6)	0	(6)	100	(6)	83	(6)
CARBON TETRACHLORIDE	0	(6)	0	(6)	33	(6)	0	(6)
CHLOROBENZENE	0	(6)	0	(6)	0	(6)	67	(6)
1,2-DICHLOROETHANE	0	(6)	0	(6)	0	(6)	17	(6)
1,1,2-TRICHLOROETHANE	0	(6)	0	(6)	60	(5)	0	(6)
1,2-DICHLOROPROPANE	0	(6)	0	(6)	17	(6)	33	(6)
DICHLOROBROMOMETHANE	0	(6)	0	(6)	50	(6)	0	(6)
VINYL CHLORIDE	0	(6)	0	(6)	0	(6)	17	(6)
2-NITROPHENOL	0	(6)	0	(6)	0	(6)	33	(6)
2,4-DINITROPHENOL	0	(6)	0	(6)	0	(6)	17	(6)
ACENAPHTHENE	0	(6)	0	(6)	0	(6)	17	(6)
1,3-DICHLOROBENZENE	0	(6)	0	(6)	33	(6)	17	(6)
FLUORANTHENE	0	(6)	0	(6)	83	(6)	67	(6)
ISOPHORONE	0	(6)	33	(6)	0	(6)	0	(6)
1,2-BENZANTHRACENE	0	(6)	0	(6)	33	(6)	33	(6)
3,4-BENZOFLUORANTHENE	0	(6)	0	(6)	17	(6)	17	(6)
11,12-BENZOFLUORANTHENE	0	(6)	0	(6)	17	(6)	17	(6)
CHRYSENE	0	(6)	0	(6)	33	(6)	33	(6)
ACENAPHTHYLENE	0	(6)	0	(6)	0	(6)	17	(6)
FLUORENE	0	(6)	0	(6)	33	(6)	17	(6)
PYRENE	0	(6)	0	(6)	83	(6)	100	(6)
ALPHA-BHC	0	(6)	17	(6)	0	(6)	0	(6)
ANTIMONY	0	(6)	0	(6)	100	(6)	100	(6)
ARSENIC	0	(6)	0	(6)	100	(6)	100	(6)
BERYLLIUM	0	(6)	0	(6)	100	(6)	100	(6)
SELENIUM	0	(6)	0	(6)	100	(6)	100	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 5

PARAMETER	INFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE		DIGESTED SLUDGE	
BOD	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL SUSP. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
COD	100	(6)	100	(6)	100	(6)	100	(6)
OIL & GREASE	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL PHENOLS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL DISS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
SETTLEABLE SOLIDS	100	(6)	0	(6)	100	(6)	100	(6)
TOTAL VOLATILE SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
VOLATILE DISS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL VOL. SUS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
AMMONIA NITROGEN	100	(6)	100	(6)	100	(6)	100	(6)
TOC	100	(6)	100	(6)	100	(6)	100	(6)
BENZENE	100	(6)	50	(6)	100	(6)	67	(6)
1,1,1-TRICHLOROETHANE	100	(6)	67	(6)	0	(6)	17	(6)
CHLOROFORM	100	(6)	100	(6)	33	(6)	33	(6)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	0	(6)	100	(6)	83	(6)
ETHYLBENZENE	100	(6)	33	(6)	100	(6)	100	(6)
METHYLENE CHLORIDE	100	(6)	100	(6)	83	(6)	83	(6)
DICHLOROBROMOMETHANE	100	(6)	83	(6)	0	(6)	0	(6)
TETRACHLOROETHYLENE	100	(6)	100	(6)	33	(6)	0	(6)
TOLUENE	100	(6)	33	(6)	100	(6)	100	(6)
TRICHLOROETHYLENE	100	(6)	100	(6)	83	(6)	33	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	100	(6)
BUTYL BENZYL PHTHALATE	100	(6)	0	(6)	33	(6)	17	(6)
CADMIUM	100	(6)	17	(6)	100	(6)	100	(6)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)
CYANIDE	100	(6)	83	(6)	100	(6)	100	(6)
LEAD	100	(6)	17	(6)	100	(6)	100	(6)
SILVER	100	(6)	33	(6)	100	(6)	100	(6)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)
ALUMINUM	100	(6)	100	(6)	0	( )	0	( )
BARIUM	100	(6)	100	(6)	0	( )	0	( )
CALCIUM	100	(6)	100	(6)	0	( )	0	( )
IRON	100	(6)	100	(6)	0	( )	0	( )
MAGNESIUM	100	(6)	100	(6)	0	( )	0	( )
MANGANESE	100	(6)	100	(6)	0	( )	0	( )
SODIUM	100	(6)	100	(6)	0	( )	0	( )
PHENOL	83	(6)	17	(6)	33	(6)	17	(6)
1,3-DICHLOROPROPYLENE	67	(6)	0	(6)	0	(6)	0	(6)
NAPHTHALENE	50	(6)	0	(6)	50	(6)	33	(6)
DI-N-BUTYL PHTHALATE	50	(6)	0	(6)	0	(6)	0	(6)
DIETHYL PHTHALATE	50	(6)	0	(6)	0	(6)	0	(6)
NICKEL	50	(6)	0	(6)	100	(6)	100	(6)
1,1,2,2-TETRACHLOROETHANE	33	(6)	0	(6)	20	(5)	75	(4)
CHLORODIBROMOMETHANE	33	(6)	33	(6)	20	(5)	17	(6)
2,4-DIMETHYLPHENOL	33	(6)	0	(6)	0	(6)	0	(6)
BERYLLIUM	33	(6)	0	(6)	100	(6)	100	(6)
CHLOROBENZENE	17	(6)	33	(6)	0	(6)	17	(6)
1,1-DICHLOROETHYLENE	17	(6)	0	(6)	33	(6)	0	(6)
1,2-DICHLOROPROPANE	17	(6)	0	(6)	33	(6)	0	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 5

PARAMETER	INFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE		DIGESTED SLUDGE	
2-CHLOROETHYL VINYL ETHER	0	(6)	0	(6)	0	(6)	17	(6)
METHYL CHLORIDE	0	(6)	0	(6)	100	(6)	67	(6)
VINYL CHLORIDE	0	(6)	0	(6)	50	(6)	17	(6)
2,4-DICHLOROPHENOL	0	(6)	0	(6)	0	(6)	17	(6)
PENTACHLOROPHENOL	0	(6)	0	(6)	0	(6)	17	(6)
ACENAPHTHENE	0	(6)	0	(6)	17	(6)	33	(6)
1,2-DICHLOROBENZENE	0	(6)	0	(6)	17	(6)	0	(6)
1,4-DICHLOROBENZENE	0	(6)	0	(6)	33	(6)	17	(6)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	17	(6)
DI-N-OCTYL PHTHALATE	0	(6)	0	(6)	33	(6)	17	(6)
ANTHRACENE	0	(6)	0	(6)	67	(6)	83	(6)
PHENANTHRENE	0	(6)	0	(6)	67	(6)	83	(6)
PYRENE	0	(6)	0	(6)	33	(6)	17	(6)
BETA-BHC	0	(6)	17	(6)	0	(6)	0	(6)
GAMMA-BHC	0	(6)	50	(6)	0	(6)	0	(6)
ANTIMONY	0	(6)	0	(6)	60	(5)	100	(6)
ARSENIC	0	(6)	0	(6)	100	(6)	100	(6)
SELENIUM	0	(6)	0	(6)	100	(6)	100	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 6

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		DIGESTED SLUDGE	
BOD	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL SUSP. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
COD	100	(6)	100	(6)	100	(6)	100	(6)
OIL & GREASE	100	(6)	100	(2)	100	(6)	100	(6)
TOTAL PHENOLS	100	(6)	50	(6)	100	(6)	100	(6)
TOTAL SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL DISS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
SETTLEABLE SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL VOLATILE SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
VOLATILE DISS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(5)
TOTAL VOL. SUS. SOLIDS	100	(6)	100	(5)	100	(6)	100	(6)
AMMONIA NITROGEN	100	(6)	100	(6)	83	(6)	100	(6)
TOC	100	(6)	100	(6)	100	(6)	100	(6)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	100	(6)	67	(6)	100	(6)
METHYLENE CHLORIDE	100	(6)	100	(6)	67	(6)	83	(6)
METHYL CHLORIDE	100	(6)	0	(6)	0	(6)	0	(6)
TETRACHLOROETHYLENE	100	(6)	33	(6)	100	(6)	100	(6)
TOLUENE	100	(6)	100	(6)	100	(6)	100	(6)
TRICHLOROETHYLENE	100	(6)	100	(6)	83	(6)	33	(6)
VINYL CHLORIDE	100	(6)	100	(6)	100	(6)	100	(6)
PENTACHLOROPHENOL	100	(6)	33	(6)	0	(6)	0	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	83	(6)	100	(6)	100	(5)
CADMIUM	100	(6)	100	(6)	100	(6)	100	(6)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)
CYANIDE	100	(6)	67	(6)	100	(6)	100	(6)
LEAD	100	(6)	67	(6)	100	(6)	100	(6)
MERCURY	100	(6)	83	(6)	100	(6)	100	(6)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)
SILVER	100	(6)	17	(6)	100	(6)	100	(6)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)
ALUMINUM	100	(6)	100	(6)	0	( )	0	( )
BARIUM	100	(6)	100	(6)	0	( )	0	( )
CALCIUM	100	(6)	100	(6)	0	( )	0	( )
IRON	100	(6)	100	(6)	0	( )	0	( )
MAGNESIUM	100	(6)	100	(6)	0	( )	0	( )
MANGANESE	100	(6)	100	(6)	0	( )	0	( )
SODIUM	100	(6)	100	(6)	0	( )	0	( )
1,1,1-TRICHLOROETHANE	83	(6)	100	(6)	33	(6)	0	(6)
1,1-DICHLOROETHANE	83	(6)	67	(6)	83	(6)	0	(6)
CHLOROFORM	83	(6)	100	(6)	0	(6)	0	(6)
ANTHRACENE	83	(6)	83	(6)	100	(6)	80	(5)
PHENANTHRENE	83	(6)	83	(6)	100	(6)	80	(5)
BENZENE	67	(6)	17	(6)	100	(6)	67	(6)
1,1-DICHLOROETHYLENE	67	(6)	17	(6)	0	(6)	0	(6)
TRICHLOROFLUOROMETHANE	67	(6)	83	(6)	0	(6)	0	(6)
PARACHLOROMETA CRESOL	67	(6)	50	(6)	0	(6)	0	(6)
DIETHYL PHTHALATE	67	(6)	50	(6)	0	(6)	0	(5)
DI-N-BUTYL PHTHALATE	50	(6)	83	(6)	67	(6)	0	(5)
1,2-DICHLOROETHANE	33	(6)	17	(6)	0	(6)	0	(6)
ETHYLBENZENE	33	(6)	0	(6)	100	(6)	100	(6)
DICHLOROBROMOMETHANE	33	(6)	33	(6)	0	(6)	0	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 6

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		DIGESTED SLUDGE	
PHENOL	33	(6)	33	(6)	100	(6)	100	(6)
1,1,2-TRICHLOROETHANE	17	(6)	0	(6)	0	(6)	0	(6)
2,4-DICHLOROPHENOL	17	(6)	0	(6)	0	(6)	0	(6)
ACENAPHTHENE	17	(6)	50	(6)	0	(6)	0	(5)
1,3-DICHLOROBENZENE	17	(6)	0	(6)	0	(6)	0	(5)
1,4-DICHLOROBENZENE	17	(6)	0	(6)	0	(6)	0	(5)
2,4-DINITROTOLUENE	17	(6)	33	(6)	0	(6)	0	(5)
NAPHTHALENE	17	(6)	0	(6)	0	(6)	0	(5)
1,12-BENZOPERYLENE	17	(6)	17	(6)	0	(6)	0	(5)
CARBON TETRACHLORIDE	0	(6)	0	(6)	17	(6)	0	(6)
CHLOROBENZENE	0	(6)	0	(6)	17	(6)	17	(6)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	0	(6)	17	(6)
CHLOROETHANE	0	(6)	0	(6)	17	(6)	67	(6)
BUTYL BENZYL PHTHALATE	0	(6)	17	(6)	83	(6)	0	(5)
1,2-BENZANTHRACENE	0	(6)	33	(6)	100	(6)	20	(5)
CHRYSENE	0	(6)	33	(6)	100	(6)	20	(5)
FLUORENE	0	(6)	17	(6)	0	(6)	0	(5)
ANTIMONY	0	(6)	0	(6)	100	(6)	100	(6)
ARSENIC	0	(6)	0	(6)	100	(6)	100	(6)
BERYLLIUM	0	(6)	0	(6)	100	(6)	100	(6)
SELENIUM	0	(6)	0	(6)	100	(6)	100	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 7

PARAMETER	INFLUENT		PRE CL EFFLUENT		COMBINED SLUDGE		HEAT TRT SLUDGE		HEAT TRT DECANT	
1,1,1-TRICHLOROETHANE	100	(6)	100	(6)	0	(6)	0	(6)	0	(6)
ETHYLBENZENE	100	(6)	0	(6)	83	(6)	83	(6)	100	(6)
METHYLENE CHLORIDE	100	(6)	100	(6)	100	(6)	50	(6)	33	(6)
TETRACHLOROETHYLENE	100	(6)	83	(6)	17	(6)	67	(6)	0	(6)
TOLUENE	100	(6)	33	(6)	100	(4)	100	(6)	100	(6)
NAPHTHALENE	100	(6)	0	(6)	33	(6)	17	(6)	17	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
GAMMA-BHC	100	(6)	100	(6)	0	(6)	0	(6)	33	(6)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
COPPER	100	(6)	83	(6)	100	(6)	100	(6)	100	(6)
CYANIDE	100	(6)	83	(6)	100	(6)	100	(6)	100	(6)
MERCURY	100	(6)	100	(6)	100	(6)	100	(6)	83	(6)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
CHLOROFORM	83	(6)	50	(6)	17	(6)	0	(6)	0	(6)
1,2-TRANS-DICHLOROETHYLENE	83	(6)	67	(6)	100	(6)	100	(6)	100	(6)
TRICHLOROETHYLENE	83	(6)	100	(6)	33	(6)	50	(6)	0	(6)
PHENOL	83	(6)	0	(6)	50	(6)	83	(6)	100	(6)
HEPTACHLOR	83	(6)	0	(6)	0	(6)	0	(6)	67	(6)
CADMIUM	83	(6)	83	(6)	100	(6)	100	(6)	100	(6)
NICKEL	83	(6)	83	(6)	100	(6)	100	(6)	100	(6)
SILVER	83	(6)	33	(6)	100	(6)	100	(6)	100	(6)
LEAD	67	(6)	67	(6)	100	(6)	100	(6)	100	(6)
BENZENE	50	(6)	0	(6)	100	(6)	100	(6)	100	(6)
1,2-DICHLOROBENZENE	50	(6)	0	(6)	33	(6)	17	(6)	33	(6)
DIETHYL PHTHALATE	50	(6)	0	(6)	0	(6)	0	(6)	0	(6)
1,1-DICHLOROETHANE	33	(6)	0	(6)	100	(6)	0	(6)	0	(6)
DI-N-BUTYL PHTHALATE	33	(6)	0	(6)	100	(6)	83	(6)	0	(6)
ANTIMONY	33	(6)	33	(6)	100	(6)	100	(6)	100	(6)
BUTYL BENZYL PHTHALATE	17	(6)	0	(6)	100	(6)	83	(6)	0	(6)
HEPTACHLOR EPOXIDE	17	(6)	17	(6)	0	(6)	0	(6)	17	(6)
DELTA-BHC	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)
BERYLLIUM	17	(6)	33	(6)	0	(6)	0	(6)	67	(6)
CHLOROBENZENE	0	(6)	0	(6)	17	(6)	17	(6)	17	(6)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	50	(6)	0	(5)	0	(6)
1,2-DICHLOROPROPANE	0	(6)	0	(6)	0	(5)	80	(5)	0	(6)
1,3-DICHLOROPROPYLENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)
DICHLORODIFLUOROMETHANE	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)
PENTACHLOROPHENOL	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)
1,3-DICHLOROBENZENE	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)
1,4-DICHLOROBENZENE	0	(6)	0	(6)	17	(6)	17	(6)	0	(6)
FLUORANTHENE	0	(6)	0	(6)	83	(6)	17	(6)	0	(6)
1,2-BENZANTHRACENE	0	(6)	0	(6)	83	(6)	17	(6)	0	(6)
CHRYSENE	0	(6)	0	(6)	83	(6)	17	(6)	0	(6)
ANTHRACENE	0	(6)	0	(6)	100	(6)	100	(6)	0	(6)
PHENANTHRENE	0	(6)	0	(6)	100	(6)	100	(6)	0	(6)
PYRENE	0	(6)	0	(6)	83	(6)	17	(6)	0	(6)
ARSENIC	0	(6)	0	(6)	100	(6)	100	(6)	100	(6)
SELENIUM	0	(6)	0	(6)	100	(6)	100	(6)	100	(6)
THALLIUM	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 8

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		COMBINED SLUDGE HEAT TRT		SLUDGE HEAT TRT		DECANT,	
1,1,1-TRICHLOROETHANE	100	(4)	0	(4)	67	(3)	0	(4)	25	(4)	0	(4)
1,1-DICHLOROETHANE	100	(4)	0	(4)	100	(3)	25	(4)	0	(4)	0	(4)
CHLOROFORM	100	(4)	100	(4)	33	(3)	0	(4)	0	(4)	0	(4)
1,2-DICHLOROPROPANE	100	(4)	0	(4)	67	(3)	100	(4)	25	(4)	0	(4)
ETHYLBENZENE	100	(4)	50	(4)	100	(3)	100	(4)	100	(4)	100	(4)
METHYLENE CHLORIDE	100	(4)	100	(4)	0	(3)	0	(4)	0	(4)	100	(4)
TETRACHLOROETHYLENE	100	(4)	25	(4)	100	(3)	50	(4)	100	(4)	0	(4)
TOLUENE	100	(4)	100	(4)	100	(3)	100	(4)	100	(4)	100	(4)
TRICHLOROETHYLENE	100	(4)	25	(4)	67	(3)	75	(4)	100	(4)	75	(4)
PHENOL	100	(4)	50	(4)	67	(3)	75	(4)	50	(4)	100	(4)
NAPHTHALENE	100	(4)	0	(4)	100	(3)	100	(4)	75	(4)	25	(4)
BUTYL BENZYL PHTHALATE	100	(4)	75	(4)	100	(3)	100	(4)	100	(4)	0	(4)
CHROMIUM	100	(4)	100	(4)	100	(3)	100	(4)	100	(4)	100	(4)
COPPER	100	(4)	100	(4)	100	(3)	100	(4)	100	(4)	100	(4)
CYANIDE	100	(4)	50	(4)	100	(3)	100	(4)	100	(4)	100	(4)
LEAD	100	(4)	100	(4)	100	(3)	100	(4)	100	(4)	100	(4)
MERCURY	100	(4)	0	(4)	100	(3)	100	(4)	100	(4)	50	(4)
NICKEL	100	(4)	100	(4)	100	(3)	100	(4)	100	(4)	100	(4)
SILVER	100	(4)	25	(4)	100	(3)	100	(4)	100	(4)	0	(4)
ZINC	100	(4)	100	(4)	100	(3)	100	(4)	100	(4)	100	(4)
BENZENE	75	(4)	25	(4)	67	(3)	100	(4)	100	(4)	100	(4)
PENTACHLOROPHENOL	75	(4)	100	(4)	67	(3)	75	(4)	50	(4)	100	(4)
BIS(2-ETHYLHEXYL) PHTHALATE	75	(4)	100	(4)	100	(3)	75	(4)	100	(4)	25	(4)
DI-N-BUTYL PHTHALATE	50	(4)	75	(4)	67	(3)	100	(4)	100	(4)	0	(4)
DIETHYL PHTHALATE	50	(4)	0	(4)	0	(3)	0	(4)	0	(4)	0	(4)
2,4-DICHLOROPHENOL	25	(4)	25	(4)	0	(3)	0	(4)	0	(4)	50	(4)
1,4-DICHLOROBENZENE	25	(4)	0	(4)	0	(3)	25	(4)	0	(4)	0	(4)
FLUORANTHENE	25	(4)	0	(4)	100	(3)	100	(4)	100	(4)	0	(4)
ANTHRACENE	25	(4)	0	(4)	67	(3)	75	(4)	75	(4)	0	(4)
PHENANTHRENE	25	(4)	0	(4)	67	(3)	75	(4)	75	(4)	0	(4)
CADMIUM	25	(4)	0	(4)	100	(3)	100	(4)	100	(4)	0	(4)
ACRYLONITRILE	0	(4)	0	(4)	33	(3)	25	(4)	75	(4)	0	(4)
CHLOROBENZENE	0	(4)	0	(4)	100	(3)	0	(4)	100	(4)	50	(4)
1,1,2-TRICHLOROETHANE	0	(4)	0	(4)	0	(3)	50	(4)	0	(4)	0	(4)
1,1,2,2-TETRACHLOROETHANE	0	(4)	0	(4)	33	(3)	0	(4)	75	(4)	0	(4)
CHLOROETHANE	0	(4)	0	(4)	0	(3)	75	(4)	0	(4)	0	(4)
1,1-DICHLOROETHYLENE	0	(4)	0	(4)	67	(3)	0	(4)	25	(4)	0	(4)
1,2-TRANS-DICHLOROETHYLENE	0	(4)	0	(4)	100	(3)	100	(4)	100	(4)	0	(4)
METHYL CHLORIDE	0	(4)	0	(4)	0	(3)	0	(4)	25	(4)	0	(4)
METHYL BROMIDE	0	(4)	0	(4)	33	(3)	0	(4)	25	(4)	0	(4)
DICHLORODIFLUOROMETHANE	0	(4)	0	(4)	67	(3)	50	(4)	100	(4)	0	(4)
VINYL CHLORIDE	0	(4)	0	(4)	0	(3)	50	(4)	0	(4)	0	(4)
ACENAPHTHENE	0	(4)	0	(4)	0	(3)	25	(4)	0	(4)	0	(4)
HEXACHLOROBENZENE	0	(4)	0	(4)	0	(3)	25	(4)	0	(4)	0	(4)
2-CHLORONAPHTHALENE	0	(4)	0	(4)	0	(3)	25	(4)	0	(4)	0	(4)
1,2-DICHLOROBENZENE	0	(4)	0	(4)	0	(3)	25	(4)	0	(4)	0	(4)
1,3-DICHLOROBENZENE	0	(4)	0	(4)	0	(3)	25	(4)	0	(4)	0	(4)
HEXACHLOROBUTADIENE	0	(4)	0	(4)	0	(3)	25	(4)	0	(4)	0	(4)
DIMETHYL PHTHALATE	0	(4)	0	(4)	33	(3)	25	(4)	0	(4)	0	(4)
1,2-BENZANTHRACENE	0	(4)	0	(4)	33	(3)	50	(4)	50	(4)	0	(4)
BENZO (A)PYRENE	0	(4)	0	(4)	0	(3)	0	(4)	50	(4)	0	(4)
CHRYSENE	0	(4)	0	(4)	33	(3)	50	(4)	50	(4)	0	(4)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 8

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		COMBINED SLUDGE HEAT TRT		SLUDGE HEAT TRT		DECANT,	
PYRENE	0	(4)	0	(4)	100	(3)	100	(4)	100	(4)	0	(4)
ANTIMONY	0	(4)	0	(4)	100	(3)	100	(4)	100	(4)	0	(4)
ARSENIC	0	(4)	0	(4)	100	(3)	100	(4)	100	(4)	0	(4)
BERYLLIUM	0	(4)	0	(4)	100	(3)	100	(4)	100	(4)	0	(4)
SELENIUM	0	(4)	25	(4)	100	(3)	100	(4)	100	(4)	0	(4)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 9

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE	
BOD	100	(6)	83	(6)	100	(6)	100	(6)
TOTAL SUSP. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
COD	100	(6)	100	(6)	100	(6)	100	(6)
OIL & GREASE	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL PHENOLS	100	(6)	83	(6)	100	(6)	100	(6)
TOTAL SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL DISS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
SETTLEABLE SOLIDS	100	(6)	0	(6)	0	( )	0	( )
TOTAL VOLATILE SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
VOLATILE DISS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL VOL. SUS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
AMMONIA NITROGEN	100	(6)	100	(6)	100	(6)	100	(6)
TOC	100	(6)	100	(6)	100	(6)	100	(6)
TOLUENE	100	(6)	33	(6)	100	(6)	100	(6)
TRICHLOROETHYLENE	100	(6)	0	(6)	100	(6)	67	(6)
DIETHYL PHTHALATE	100	(6)	50	(6)	17	(6)	17	(6)
CHROMIUM	100	(6)	33	(6)	83	(6)	83	(6)
COPPER	100	(6)	100	(6)	83	(6)	83	(6)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)
LEAD	100	(6)	33	(6)	100	(6)	100	(6)
NICKEL	100	(6)	100	(6)	83	(6)	83	(6)
SILVER	100	(6)	50	(6)	83	(6)	83	(6)
ZINC	100	(6)	100	(6)	83	(6)	83	(6)
ALUMINUM	100	(6)	100	(6)	0	( )	0	( )
BARIUM	100	(6)	100	(6)	0	( )	0	( )
BORON	100	(6)	100	(6)	0	( )	0	( )
CALCIUM	100	(6)	100	(6)	0	( )	0	( )
IRON	100	(6)	100	(6)	0	( )	0	( )
MAGNESIUM	100	(6)	100	(6)	0	( )	0	( )
MANGANESE	100	(6)	100	(6)	0	( )	0	( )
SODIUM	100	(6)	100	(6)	0	( )	0	( )
TITANIUM	100	(6)	100	(6)	0	( )	0	( )
VANADIUM	100	(6)	67	(6)	0	( )	0	( )
CHLOROFORM	83	(6)	83	(6)	0	(6)	0	(6)
ARSENIC	83	(6)	100	(6)	100	(6)	100	(6)
1,1,2-TRICHLOROETHANE	67	(6)	17	(6)	0	(6)	0	(6)
TETRACHLOROETHYLENE	67	(6)	17	(6)	100	(6)	0	(6)
PHENOL	67	(6)	0	(6)	17	(6)	83	(6)
CADMIUM	67	(6)	83	(6)	83	(6)	83	(6)
SELENIUM	67	(6)	50	(6)	100	(6)	100	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	50	(6)	0	(6)	100	(6)	83	(6)
DI-N-BUTYL PHTHALATE	50	(6)	33	(6)	67	(6)	17	(6)
TIN	50	(6)	0	(6)	0	( )	0	( )
METHYL CHLORIDE	33	(6)	33	(6)	33	(6)	0	(6)
PARACHLOROMETA CRESOL	33	(6)	0	(6)	0	(6)	0	(6)
BENZENE	17	(6)	50	(6)	67	(6)	0	(6)
CARBON TETRACHLORIDE	17	(6)	0	(6)	0	(6)	0	(6)
1,1,2,2-TETRACHLOROETHANE	17	(6)	0	(6)	17	(6)	0	(6)
ETHYLBENZENE	17	(6)	17	(6)	100	(6)	50	(6)
METHYLENE CHLORIDE	17	(6)	0	(6)	33	(6)	0	(6)
ANTIMONY	17	(6)	17	(6)	100	(6)	83	(6)
CHLOROBENZENE	0	(6)	17	(6)	50	(6)	0	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 9

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE	
1,1,1-TRICHLOROETHANE	0	(6)	0	(6)	17	(6)	0	(6)
1,1-DICHLOROETHANE	0	(6)	0	(6)	83	(6)	0	(6)
CHLOROETHANE	0	(6)	0	(6)	100	(6)	33	(6)
1,2-TRANS-DICHLOROETHYLENE	0	(6)	0	(6)	67	(6)	83	(6)
1,2-DICHLOROPROPANE	0	(6)	0	(6)	67	(6)	0	(6)
METHYL BROMIDE	0	(6)	0	(6)	100	(6)	50	(6)
VINYL CHLORIDE	0	(6)	0	(6)	100	(6)	17	(6)
4,6-DINITRO-O-CRESOL	0	(6)	17	(6)	0	(6)	0	(6)
HEXACHLOROBENZENE	0	(6)	0	(6)	0	(6)	17	(6)
FLUORANTHENE	0	(6)	0	(6)	50	(6)	17	(6)
BUTYL BENZYL PHTHALATE	0	(6)	0	(6)	83	(6)	33	(6)
DIMETHYL PHTHALATE	0	(6)	0	(6)	17	(6)	17	(6)
1,2-BENZANTHRACENE	0	(6)	0	(6)	17	(6)	17	(6)
BENZO (A)PYRENE	0	(6)	0	(6)	17	(6)	0	(6)
11,12-BENZOFLUORANTHENE	0	(6)	0	(6)	14	(7)	0	(6)
CHRYSENE	0	(6)	0	(6)	0	(5)	17	(6)
ANTHRACENE	0	(6)	0	(6)	50	(6)	33	(6)
PHENANTHRENE	0	(6)	0	(6)	50	(6)	33	(6)
PYRENE	0	(6)	0	(6)	50	(6)	17	(6)
BERYLLIUM	0	(6)	0	(6)	17	(6)	0	(6)
MERCURY	0	(6)	0	(6)	100	(6)	100	(6)
MOLYBDENUM	0	(6)	17	(6)	0	( )	0	( )

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 10

PARAMETER	INFL	PRE CL EFF	SEC EFF	TERT EFF	PRIM SLDG	SEC SLDG	COMB SOURCE	COMB SLDG	OTH SLDG
CHLOROFORM	100 (6)	67 (6)	83(6)	83 (6)	50 (6)	0 (2)	0 (2)	0 (4)	25 (4)
METHYLENE CHLORIDE	100 (6)	100 (6)	100(6)	100 (6)	0 (6)	0 (2)	0 (2)	100 (4)	100 (4)
TETRACHLOROETHYLENE	100 (6)	83 (6)	83(6)	100 (6)	0 (6)	50 (2)	0 (2)	25 (4)	100 (4)
TOLUENE	100 (6)	0 (6)	0(6)	17 (6)	100 (6)	100 (2)	100 (2)	100 (4)	75 (4)
TRICHLOROETHYLENE	100 (6)	0 (6)	0(6)	0 (6)	17 (6)	50 (2)	0 (2)	50 (4)	100 (4)
PHENOL	100 (6)	0 (6)	0(6)	17 (6)	67 (6)	0 (2)	50 (2)	50 (4)	0 (4)
BIS(2-ETHYLHEXYL) PHTHALATE	100 (6)	100 (6)	100(6)	100 (6)	100 (6)	100 (2)	100 (1)	75 (4)	100 (4)
BUTYL BENZYL PHTHALATE	100 (6)	0 (6)	0(6)	0 (6)	17 (6)	50 (2)	50 (2)	25 (4)	25 (4)
COPPER	100 (6)	0 ( )	67(6)	100 (6)	100 (6)	50 (2)	100 (2)	50 (2)	100 (4)
CYANIDE	100 (5)	0 ( )	100(5)	100 (5)	100 (5)	100 (2)	100 (2)	100 (3)	100 (3)
MERCURY	100 (6)	0 ( )	20(5)	0 (6)	100 (6)	100 (2)	100 (2)	100 (2)	0 (4)
ZINC	100 (6)	0 ( )	100(6)	100 (6)	100 (6)	50 (2)	100 (2)	50 (2)	100 (4)
1,1,1-TRICHLOROETHANE	83 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	0 (2)	0 (4)	0 (4)
ETHYLBENZENE	83 (6)	0 (6)	0(6)	0 (6)	100 (6)	0 (2)	100 (2)	100 (4)	50 (4)
1,4-DICHLOROBENZENE	83 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	0 (2)	0 (4)	0 (4)
GAMMA-BHC	83 (6)	17 (6)	67(6)	83 (6)	0 (6)	0 (2)	0 (2)	0 (4)	0 (4)
CHROMIUM	83 (6)	0 ( )	100(6)	67 (6)	100 (6)	50 (2)	100 (2)	50 (2)	75 (4)
SILVER	83 (6)	0 ( )	33(6)	17 (6)	100 (6)	50 (2)	100 (2)	50 (2)	100 (4)
1,1-DICHLOROETHANE	67 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	0 (2)	100 (4)	25 (4)
METHYL CHLORIDE	67 (6)	0 (6)	17(6)	0 (6)	17 (6)	50 (2)	0 (2)	0 (4)	0 (4)
NAPHTHALENE	67 (6)	0 (6)	0(6)	0 (6)	17 (6)	0 (2)	0 (2)	0 (4)	0 (4)
DI-N-BUTYL PHTHALATE	67 (6)	100 (6)	100(6)	100 (6)	17 (6)	0 (2)	50 (2)	25 (4)	25 (4)
DIETHYL PHTHALATE	67 (6)	33 (6)	0(6)	0 (6)	33 (6)	0 (2)	0 (2)	0 (4)	0 (4)
LEAD	67 (6)	0 ( )	0(6)	17 (6)	100 (6)	100 (2)	100 (2)	100 (2)	100 (4)
1,2-DICHLOROBENZENE	50 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	0 (2)	0 (4)	0 (4)
CADMIUM	50 (6)	0 ( )	33(6)	17 (6)	100 (6)	50 (2)	100 (2)	50 (2)	75 (4)
1,2,4-TRICHLOROBENZENE	33 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	0 (2)	0 (4)	0 (4)
NICKEL	33 (6)	0 ( )	83(6)	50 (6)	100 (6)	50 (2)	100 (2)	50 (2)	75 (4)
BENZENE	17 (6)	0 (6)	0(6)	0 (6)	100 (6)	100 (2)	100 (2)	100 (4)	25 (4)
CARBON TETRACHLORIDE	17 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	0 (2)	0 (4)	0 (4)
CHLOROETHANE	17 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	50 (2)	0 (4)	0 (4)
1,2-DICHLOROPROPANE	17 (6)	0 (6)	0(6)	0 (6)	17 (6)	0 (2)	0 (2)	25 (4)	0 (4)
1,3-DICHLOROBENZENE	17 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	0 (2)	0 (4)	0 (4)
ACRYLONITRILE	0 (6)	0 (6)	0(6)	0 (6)	0 (6)	50 (2)	0 (2)	0 (4)	0 (4)
CHLOROBENZENE	0 (6)	0 (6)	0(6)	0 (6)	17 (6)	0 (2)	0 (2)	50 (4)	0 (4)
1,1,2,2-TETRACHLOROETHANE	0 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	0 (2)	0 (4)	25 (4)
1,1-DICHLOROETHYLENE	0 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	0 (2)	0 (4)	25 (4)
1,2-TRANS-DICHLOROETHYLENE	0 (6)	0 (6)	0(6)	0 (6)	100 (6)	0 (2)	100 (2)	75 (4)	0 (4)
METHYL BROMIDE	0 (6)	0 (6)	0(6)	0 (6)	0 (6)	100 (2)	100 (2)	0 (4)	0 (4)
DICHLOROBROMOMETHANE	0 (6)	0 (6)	0(6)	0 (6)	17 (6)	0 (2)	0 (2)	0 (4)	0 (4)
DICHLORODIFLUOROMETHANE	0 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	0 (2)	0 (4)	100 (4)
VINYL CHLORIDE	0 (6)	0 (6)	17(6)	0 (6)	67 (6)	0 (2)	0 (2)	75 (4)	0 (4)
ACENAPHTHENE	0 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	50 (2)	0 (4)	0 (4)
HEXACHLOROBENZENE	0 (6)	0 (6)	0(6)	0 (6)	0 (6)	0 (2)	0 (2)	25 (4)	0 (4)
FLUORANTHENE	0 (6)	0 (6)	0(6)	0 (6)	17 (6)	0 (2)	50 (2)	0 (4)	0 (4)
1,2-BENZANTHRACENE	0 (6)	0 (6)	0(6)	0 (6)	0 (6)	50 (2)	50 (2)	25 (4)	0 (4)
CHRYSENE	0 (6)	0 (6)	0(6)	0 (6)	0 (6)	50 (2)	50 (2)	25 (4)	0 (4)
ANTHRACENE	0 (6)	0 (6)	0(6)	0 (6)	50 (6)	50 (2)	100 (2)	50 (4)	25 (4)
FLUORENE	0 (6)	0 (6)	0(6)	0 (6)	17 (6)	50 (2)	0 (2)	0 (4)	0 (4)
PHENANTHRENE	0 (6)	0 (6)	0(6)	0 (6)	50 (6)	50 (2)	100 (2)	50 (4)	25 (4)
PYRENE	0 (6)	0 (6)	0(6)	0 (6)	17 (6)	50 (2)	50 (2)	50 (4)	0 (4)
DIELDRIN	0 (6)	0 (6)	0(6)	17 (6)	0 (6)	0 (2)	0 (2)	0 (4)	0 (4)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 10

PARAMETER	INFL	PRE CL EFF	SEC EFF	TERT EFF	PRIM SLDG	SEC SLDG	COMB SOURCE	COMB SLDG	OTH SLDG
4,4'-DDD	0 (6)	0 (6)	0(6)	17 (6)	0 (6)	0 (2)	0 (2)	0 (4)	0 (4)
ALPHA-BHC	0 (6)	17 (6)	0(6)	0 (6)	0 (6)	0 (2)	0 (2)	0 (4)	0 (4)
BETA-BHC	0 (6)	0 (6)	0(6)	17 (6)	0 (6)	0 (2)	0 (2)	0 (4)	0 (4)
ANTIMONY	0 (6)	0 ( )	0(6)	0 (6)	100 (6)	50 (2)	100 (2)	100 (2)	25 (4)
ARSENIC	0 (6)	0 ( )	0(6)	0 (6)	100 (6)	50 (2)	100 (2)	100 (2)	25 (4)
BERYLLIUM	0 (6)	0 ( )	0(6)	0 (6)	50 (6)	50 (2)	50 (2)	50 (2)	25 (4)
SELENIUM	0 (6)	0 ( )	0(6)	0 (6)	100 (6)	100 (2)	100 (2)	100 (2)	100 (4)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 11

PARAMETER	INFLUENT		PRE CL EFFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE		SECONDARY SLUDGE	
1,1,1-TRICHLOROETHANE	100	(6)	100	(6)	100	(6)	0	(6)	0	(6)
1,1-DICHLOROETHANE	100	(6)	33	(6)	17	(6)	100	(6)	100	(6)
TETRACHLOROETHYLENE	100	(6)	100	(6)	100	(6)	67	(6)	67	(6)
TOLUENE	100	(6)	50	(6)	100	(6)	100	(6)	100	(6)
TRICHLOROETHYLENE	100	(6)	100	(6)	100	(6)	67	(6)	67	(6)
DI-N-BUTYL PHTHALATE	100	(6)	67	(6)	83	(6)	33	(6)	0	(6)
ANTHRACENE	100	(6)	0	(6)	0	(6)	33	(6)	0	(6)
PHENANTHRENE	100	(6)	0	(6)	0	(6)	33	(6)	0	(6)
ANTIMONY	100	(6)	100	(6)	0	( )	100	(6)	100	(6)
ARSENIC	100	(6)	100	(6)	0	( )	100	(6)	100	(6)
CADMIUM	100	(6)	100	(6)	0	( )	100	(6)	100	(6)
CHROMIUM	100	(6)	100	(6)	0	( )	100	(6)	100	(6)
COPPER	100	(6)	100	(6)	0	( )	100	(6)	100	(6)
CYANIDE	100	(6)	100	(6)	0	( )	100	(6)	100	(6)
LEAD	100	(6)	100	(6)	0	( )	100	(6)	100	(6)
NICKEL	100	(6)	100	(6)	0	( )	100	(6)	17	(6)
SELENIUM	100	(6)	100	(6)	0	( )	100	(6)	100	(6)
SILVER	100	(6)	100	(6)	0	( )	100	(6)	100	(6)
ZINC	100	(6)	100	(6)	0	( )	100	(6)	100	(6)
BENZENE	83	(6)	67	(6)	100	(6)	100	(6)	83	(6)
1,2-TRANS DICHLOROETHYLENE	83	(6)	17	(6)	17	(6)	100	(6)	17	(6)
ETHYLBENZENE	83	(6)	33	(6)	83	(6)	100	(6)	33	(6)
METHYLENE CHLORIDE	83	(6)	83	(6)	67	(6)	83	(6)	67	(6)
PHENOL	83	(6)	0	(6)	0	(6)	50	(6)	17	(6)
NAPHTHALENE	83	(6)	0	(6)	0	(6)	17	(6)	0	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	83	(6)	100	(6)	100	(6)	100	(6)	100	(6)
CHLOROFORM	67	(6)	83	(6)	33	(6)	0	(6)	0	(6)
DIETHYL PHTHALATE	67	(6)	33	(6)	33	(6)	0	(6)	0	(6)
2,4-DIMETHYLPHENOL	50	(6)	0	(6)	0	(6)	0	(6)	0	(6)
HEXACHLOROBENZENE	33	(6)	33	(6)	17	(6)	0	(6)	0	(6)
ALDRIN	33	(6)	50	(6)	83	(6)	0	(6)	0	(6)
MERCURY	33	(6)	17	(6)	0	( )	100	(6)	67	(6)
BUTYL BENZYL PHTHALATE	17	(6)	0	(6)	17	(6)	33	(6)	0	(6)
ALPHA-BHC	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)
BETA-BHC	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)
CARBON TETRACHLORIDE	0	(6)	0	(6)	33	(6)	0	(6)	0	(6)
CHLOROBENZENE	0	(6)	0	(6)	0	(6)	67	(6)	50	(6)
CHLOROETHANE	0	(6)	0	(6)	0	(6)	83	(6)	0	(6)
1,3-DICHLOROPROPYLENE	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)
METHYL CHLORIDE	0	(6)	0	(6)	0	(6)	50	(6)	33	(6)
DICHLOROBROMOMETHANE	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)
TRICHLOROFLUOROMETHANE	0	(6)	0	(6)	0	(6)	17	(6)	17	(6)
ACENAPHTHENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)
1,2-DICHLOROBENZENE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)
1,2-BENZANTHRACENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)
CHRYSENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)
HEPTACHLOR	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)
GAMMA-BHC	0	(6)	0	(6)	33	(6)	0	(6)	0	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 12

PARAMETER	INFLUENT		PRIMARY EFFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE	
1,1,1-TRICHLOROETHANE	100	(6)	100	(5)	100	(6)	33	(6)	0	(6)
CHLOROFORM	100	(6)	100	(5)	100	(6)	0	(6)	17	(6)
ETHYLBENZENE	100	(6)	100	(5)	0	(6)	83	(6)	0	(6)
METHYLENE CHLORIDE	100	(6)	100	(5)	100	(6)	100	(6)	17	(6)
TETRACHLOROETHYLENE	100	(6)	100	(5)	100	(6)	0	(6)	0	(6)
TOLUENE	100	(6)	100	(5)	67	(6)	100	(6)	100	(6)
PHENOL	100	(6)	83	(6)	0	(6)	0	(6)	17	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
ANTIMONY	100	(6)	100	(6)	67	(6)	100	(6)	100	(6)
CADMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
LEAD	100	(6)	100	(6)	17	(6)	100	(6)	83	(6)
MERCURY	100	(6)	83	(6)	0	(6)	83	(6)	100	(6)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
TRICHLOROETHYLENE	83	(6)	100	(5)	100	(6)	33	(6)	0	(6)
SILVER	83	(6)	50	(6)	0	(6)	100	(6)	100	(6)
1,1-DICHLOROETHANE	67	(6)	80	(5)	0	(6)	83	(6)	17	(6)
NAPHTHALENE	50	(6)	33	(6)	0	(6)	17	(6)	17	(6)
GAMMA-BHC	50	(6)	67	(6)	67	(6)	0	(6)	0	(6)
2-CHLOROPHENOL	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)
ALPHA-BHC	33	(6)	33	(6)	17	(6)	0	(6)	0	(6)
CHLOROETHANE	17	(6)	0	(5)	0	(6)	33	(6)	0	(6)
1,2-TRANS-DICHLOROETHYLENE	17	(6)	0	(5)	0	(6)	100	(6)	33	(6)
1,2-DIPHENYLHYDRAZINE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)
BENZENE	0	(6)	0	(5)	0	(6)	100	(6)	83	(6)
CARBON TETRACHLORIDE	0	(6)	20	(5)	0	(6)	0	(6)	0	(6)
CHLOROBENZENE	0	(6)	0	(5)	0	(6)	33	(6)	50	(6)
1,2-DICHLOROETHANE	0	(6)	0	(5)	0	(6)	50	(6)	0	(6)
1,1,2-TRICHLOROETHANE	0	(6)	0	(5)	0	(6)	17	(6)	0	(6)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(5)	0	(6)	0	(6)	33	(6)
1,2-DICHLOROPROPANE	0	(6)	0	(5)	0	(6)	17	(6)	0	(6)
METHYL CHLORIDE	0	(6)	0	(5)	0	(6)	17	(6)	0	(6)
TRICHLOROFLUOROMETHANE	0	(6)	0	(5)	0	(6)	83	(6)	17	(6)
DICHLORODIFLUOROMETHANE	0	(6)	0	(5)	0	(6)	50	(6)	0	(6)
VINYL CHLORIDE	0	(6)	0	(5)	0	(6)	100	(6)	100	(6)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	33	(6)	33	(6)
ISOPHORONE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)
BUTYL BENZYL PHTHALATE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)
DI-N-BUTYL PHTHALATE	0	(6)	0	(6)	0	(6)	50	(6)	17	(6)
DIETHYL PHTHALATE	0	(6)	0	(6)	0	(6)	33	(6)	50	(6)
1,2-BENZANTHRACENE	0	(6)	0	(6)	0	(6)	0	(6)	50	(6)
CHRYSENE	0	(6)	0	(6)	0	(6)	0	(6)	50	(6)
ANTHRACENE	0	(6)	17	(6)	0	(6)	50	(6)	17	(6)
PHENANTHRENE	0	(6)	17	(6)	0	(6)	50	(6)	17	(6)
PYRENE	0	(6)	0	(6)	0	(6)	50	(6)	83	(6)
ARSENIC	0	(6)	17	(6)	0	(6)	100	(6)	100	(6)
BERYLLIUM	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)
SELENIUM	0	(6)	17	(6)	0	(6)	100	(6)	100	(6)
THALLIUM	0	(6)	17	(6)	0	(6)	67	(6)	67	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 13

PARAMETER	INFLUENT		PRE CL EFFLUENT		TERTIARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE	
CHLOROFORM	100	(6)	67	(6)	100	(6)	0	(6)	0	(6)
METHYLENE CHLORIDE	100	(6)	17	(6)	33	(6)	83	(6)	83	(6)
TETRACHLOROETHYLENE	100	(6)	50	(6)	17	(6)	0	(6)	0	(6)
TOLUENE	100	(6)	0	(6)	0	(6)	100	(6)	100	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	83	(6)	83	(6)
CHROMIUM	100	(6)	50	(6)	0	(6)	100	(6)	100	(6)
COPPER	100	(6)	83	(6)	100	(6)	100	(6)	100	(6)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
LEAD	100	(6)	0	(6)	0	(6)	100	(6)	100	(6)
SILVER	100	(6)	0	(6)	0	(6)	100	(6)	100	(6)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
TRICHLOROETHYLENE	83	(6)	0	(6)	0	(6)	0	(6)	0	(6)
ETHYLBENZENE	67	(6)	0	(6)	0	(6)	83	(6)	0	(6)
DI-N-BUTYL PHTHALATE	67	(6)	100	(6)	100	(6)	50	(6)	33	(6)
PCB-1242	67	(6)	33	(6)	17	(6)	0	(6)	0	(6)
1,1,1-TRICHLOROETHANE	50	(6)	0	(6)	0	(6)	0	(6)	0	(6)
PENTACHLOROPHENOL	33	(6)	17	(6)	33	(6)	0	(6)	0	(6)
PHENOL	33	(6)	17	(6)	50	(6)	83	(6)	83	(6)
PCB-1254	33	(6)	0	(6)	17	(6)	0	(6)	0	(6)
MERCURY	33	(6)	0	(6)	0	(6)	100	(6)	100	(6)
2,4-DINITROPHENOL	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)
BENZENE	0	(6)	0	(6)	0	(6)	100	(6)	83	(6)
1,2-TRANS-DICHLOROETHYLENE	0	(6)	0	(6)	0	(6)	83	(6)	17	(6)
DICHLOROBROMOMETHANE	0	(6)	0	(6)	100	(6)	0	(6)	0	(6)
TRICHLOROFLUOROMETHANE	0	(6)	0	(6)	0	(6)	50	(6)	50	(6)
CHLORODIBROMOMETHANE	0	(6)	0	(6)	67	(6)	0	(6)	0	(6)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	50	(6)	17	(6)
NAPHTHALENE	0	(6)	0	(6)	0	(6)	17	(6)	17	(6)
BUTYL BENZYL PHTHALATE	0	(6)	0	(6)	0	(6)	33	(6)	33	(6)
DIETHYL PHTHALATE	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)
1,2-BENZANTHRACENE	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)
11,12-BENZOFLUORANTHENE	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)
CHRYSENE	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)
ANTHRACENE	0	(6)	0	(6)	0	(6)	83	(6)	17	(6)
FLUORENE	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	83	(6)	17	(6)
PYRENE	0	(6)	0	(6)	0	(6)	67	(6)	17	(6)
GAMMA-BHC	0	(6)	50	(6)	50	(6)	0	(6)	0	(6)
ANTIMONY	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)
ARSENIC	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)
CADMIUM	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)
NICKEL	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)
SELENIUM	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)
THALLIUM	0	(6)	0	(6)	0	(6)	33	(6)	33	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 14

PARAMETER	INFLUENT		OTHER INFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE		SECONDARY SLUDGE		TAP WATER	
1,1,1-TRICHLOROETHANE	100	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
CHLOROFORM	100	(6)	67	(6)	100	(6)	0	(6)	0	(6)	100	(1)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	0	(6)	0	(6)	50	(6)	0	(6)	0	(1)
TETRACHLOROETHYLENE	100	(6)	100	(6)	33	(6)	0	(6)	0	(6)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	80	(5)	100	(5)	100	(6)	100	(6)	100	(1)
ANTIMONY	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
ARSENIC	100	(6)	100	(6)	33	(6)	100	(6)	100	(6)	0	(1)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	( )
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
SILVER	100	(6)	100	(6)	33	(6)	100	(6)	100	(6)	0	(1)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
METHYLENE CHLORIDE	83	(6)	67	(6)	67	(6)	17	(6)	17	(6)	0	(1)
TOLUENE	83	(6)	100	(6)	50	(6)	100	(6)	100	(6)	100	(1)
PHENOL	83	(6)	100	(6)	0	(5)	100	(6)	67	(6)	0	(1)
ETHYLBENZENE	67	(6)	50	(6)	0	(6)	100	(6)	33	(6)	0	(1)
TRICHLOROETHYLENE	67	(6)	33	(6)	33	(6)	0	(6)	0	(6)	0	(1)
DI-N-BUTYL PHTHALATE	67	(6)	80	(5)	40	(5)	17	(6)	0	(6)	100	(1)
BENZENE	50	(6)	50	(6)	83	(6)	0	(6)	17	(6)	100	(1)
1,1-DICHLOROETHYLENE	50	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
DIETHYL PHTHALATE	33	(6)	20	(5)	0	(5)	0	(6)	0	(6)	0	(1)
CARBON TETRACHLORIDE	17	(6)	33	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,2-DICHLOROPROPANE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
METHYL CHLORIDE	17	(6)	17	(6)	17	(6)	0	(6)	0	(6)	0	(1)
2,4-DICHLOROPHENOL	17	(6)	17	(6)	0	(5)	0	(6)	0	(6)	0	(1)
2,4-DINITROTOLUENE	17	(6)	20	(5)	0	(5)	0	(6)	0	(6)	0	(1)
NAPHTHALENE	17	(6)	0	(5)	0	(5)	0	(6)	0	(6)	0	(1)
BUTYL BENZYL PHTHALATE	17	(6)	0	(5)	0	(5)	0	(6)	0	(6)	0	(1)
ANTHRACENE	17	(6)	0	(5)	0	(5)	17	(6)	0	(6)	0	(1)
PHENANTHRENE	17	(6)	0	(5)	0	(5)	17	(6)	0	(6)	0	(1)
LEAD	17	(6)	100	(6)	17	(6)	100	(6)	100	(6)	0	(1)
MERCURY	17	(6)	100	(6)	0	(6)	100	(6)	100	(6)	0	(1)
SELENIUM	17	(6)	17	(6)	0	(6)	100	(6)	83	(6)	100	(1)
THALLIUM	17	(6)	17	(6)	0	(6)	17	(6)	0	(6)	0	(1)
ACRYLONITRILE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
CHLOROBENZENE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,2-DICHLOROETHANE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
DICHLOROBROMOMETHANE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	100	(1)
TRICHLOROFLUOROMETHANE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)
FLUORANTHENE	0	(6)	0	(5)	0	(5)	17	(6)	0	(6)	0	(1)
PYRENE	0	(6)	0	(5)	0	(5)	33	(6)	17	(6)	0	(1)
4,4'-DDT	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
BERYLLIUM	0	(6)	67	(6)	17	(6)	0	(6)	0	(6)	0	(1)
CADMIUM	0	(6)	83	(6)	0	(6)	100	(6)	100	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 15

PARAMETER	INFLUENT		OTHER INFLUENT		PRE CL EFFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		COMBINED SLUDGE		TAP WATER	
BENZENE	100	(6)	0	(6)	0	(3)	0	(3)	100	(1)	100	(3)	0	(1)
1,1,1-TRICHLOROETHANE	100	(6)	100	(6)	100	(3)	33	(3)	0	(1)	0	(3)	0	(1)
CHLOROFORM	100	(6)	100	(6)	100	(3)	67	(3)	0	(1)	0	(3)	100	(1)
METHYLENE CHLORIDE	100	(6)	83	(6)	100	(3)	100	(3)	100	(1)	100	(3)	0	(1)
TETRACHLOROETHYLENE	100	(6)	100	(6)	100	(3)	100	(3)	100	(1)	33	(3)	0	(1)
TOLUENE	100	(6)	0	(6)	67	(3)	33	(3)	100	(1)	100	(3)	0	(1)
TRICHLOROETHYLENE	100	(6)	100	(6)	0	(3)	0	(3)	100	(1)	100	(3)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(3)	100	(3)	100	(1)	100	(3)	0	(1)
DI-N-BUTYL PHTHALATE	100	(6)	100	(6)	67	(3)	100	(3)	100	(1)	100	(3)	0	(1)
DIETHYL PHTHALATE	100	(6)	100	(6)	0	(3)	0	(2)	0	(1)	0	(3)	0	(1)
COPPER	100	(6)	100	(6)	100	(3)	100	(3)	100	(1)	100	(2)	0	(1)
CYANIDE	100	(5)	100	(5)	100	(3)	100	(2)	0	( )	100	(2)	0	( )
SILVER	100	(6)	67	(6)	67	(3)	0	(3)	100	(1)	100	(2)	0	(1)
ZINC	100	(6)	100	(6)	100	(3)	100	(3)	100	(1)	100	(3)	100	(1)
BUTYL BENZYL PHTHALATE	83	(6)	83	(6)	0	(3)	0	(3)	100	(1)	100	(3)	0	(1)
CHROMIUM	83	(6)	100	(6)	0	(3)	0	(3)	100	(1)	100	(2)	0	(1)
MERCURY	83	(6)	100	(6)	0	(3)	0	(3)	100	(1)	100	(3)	0	(1)
NICKEL	83	(6)	17	(6)	67	(3)	100	(3)	100	(1)	100	(2)	0	(1)
ETHYLBENZENE	67	(6)	50	(6)	0	(3)	0	(3)	100	(1)	100	(3)	0	(1)
PENTACHLOROPHENOL	67	(6)	17	(6)	0	(3)	0	(3)	0	(1)	0	(3)	0	(1)
PHENOL	67	(6)	50	(6)	33	(3)	0	(3)	0	(1)	0	(3)	0	(1)
PCB-1242	67	(6)	83	(6)	0	(3)	67	(3)	0	(1)	0	(3)	0	(1)
1,2-TRANS-DICHLOROETHYLENE	50	(6)	33	(6)	0	(3)	0	(3)	0	(1)	100	(3)	0	(1)
1,1-DICHLOROETHANE	33	(6)	0	(6)	0	(3)	0	(3)	100	(1)	67	(3)	0	(1)
LEAD	33	(6)	33	(6)	0	(3)	0	(3)	100	(1)	100	(3)	0	(1)
1,2-DICHLOROETHANE	17	(6)	0	(6)	0	(3)	0	(3)	0	(1)	0	(3)	0	(1)
1,1-DICHLOROETHYLENE	17	(6)	0	(6)	0	(3)	0	(3)	0	(1)	0	(3)	0	(1)
1,2-DICHLOROPROPANE	17	(6)	0	(6)	0	(3)	0	(3)	0	(1)	0	(3)	0	(1)
DIELDRIN	17	(6)	0	(6)	0	(3)	0	(3)	0	(1)	0	(3)	0	(1)
GAMMA-BHC	17	(6)	17	(6)	33	(3)	33	(3)	0	(1)	0	(3)	0	(1)
CADMIUM	17	(6)	0	(6)	0	(3)	0	(3)	100	(1)	100	(2)	0	(1)
DICHLOROBROMOMETHANE	0	(6)	0	(6)	0	(3)	0	(3)	0	(1)	0	(3)	100	(1)
TRICHLOROFLUOROMETHANE	0	(6)	50	(6)	0	(3)	0	(3)	0	(1)	0	(3)	0	(1)
HEXACHLOROBENZENE	0	(6)	0	(6)	0	(3)	0	(3)	0	(1)	33	(3)	0	(1)
FLUORANTHENE	0	(6)	0	(6)	0	(3)	0	(3)	0	(1)	100	(3)	0	(1)
11,12-BENZOFLUORANTHENE	0	(6)	0	(6)	0	(3)	0	(3)	0	(1)	33	(3)	0	(1)
ANTHRACENE	0	(6)	0	(6)	0	(3)	0	(3)	0	(1)	67	(3)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	0	(3)	0	(3)	0	(1)	67	(3)	0	(1)
PYRENE	0	(6)	0	(6)	0	(3)	0	(3)	0	(1)	100	(3)	0	(1)
HEPTACHLOR	0	(6)	17	(6)	0	(3)	33	(3)	0	(1)	0	(3)	0	(1)
PCB-1254	0	(6)	17	(6)	0	(3)	33	(3)	0	(1)	0	(3)	0	(1)
ANTIMONY	0	(6)	0	(6)	0	(3)	0	(3)	100	(1)	100	(3)	0	(1)
ARSENIC	0	(6)	0	(6)	0	(3)	0	(3)	100	(1)	100	(3)	0	(1)
BERYLLIUM	0	(6)	0	(6)	0	(3)	0	(3)	0	(1)	33	(3)	0	(1)
SELENIUM	0	(6)	0	(6)	0	(3)	0	(3)	100	(1)	100	(3)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 16

PARAMETER	AVERAGE INFLUENT		SECONDARY EFFLUENT		TERTIARY EFFLUENT		COMBINED SLUDGE		UDGE TAP		WATER,	
1,1,1-TRICHLOROETHANE	100	(6)	17	(6)	33	(6)	0	(6)	0	(6)	0	(1)
CHLOROFORM	100	(6)	100	(6)	50	(6)	17	(6)	50	(6)	100	(1)
ETHYLBENZENE	100	(6)	33	(6)	33	(6)	100	(6)	100	(6)	0	(1)
METHYLENE CHLORIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
TETRACHLOROETHYLENE	100	(6)	100	(6)	50	(6)	50	(6)	100	(6)	0	(1)
TOLUENE	100	(6)	83	(6)	33	(6)	83	(6)	100	(6)	0	(1)
TRICHLOROETHYLENE	100	(6)	67	(6)	33	(6)	100	(6)	100	(6)	0	(1)
PHENOL	100	(6)	17	(6)	0	(6)	0	(6)	50	(6)	0	(1)
1,2-DICHLOROBENZENE	100	(6)	33	(6)	17	(6)	0	(6)	0	(6)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	50	(6)	100	(6)	100	(6)	0	(1)
DI-N-BUTYL PHTHALATE	100	(6)	83	(6)	17	(6)	100	(6)	100	(6)	100	(1)
DIETHYL PHTHALATE	100	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
CADMIUM	100	(6)	50	(6)	0	(6)	100	(6)	100	(6)	0	(1)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
COPPER	100	(6)	100	(6)	83	(6)	100	(6)	100	(6)	100	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	( )
LEAD	100	(6)	50	(6)	17	(6)	100	(6)	100	(6)	0	(1)
MERCURY	100	(6)	83	(6)	100	(6)	67	(6)	67	(6)	0	(1)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
SILVER	100	(6)	100	(6)	0	(6)	100	(6)	100	(6)	0	(1)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
CARBON TETRACHLORIDE	83	(6)	100	(6)	17	(6)	0	(6)	0	(6)	0	(1)
1,4-DICHLOROBENZENE	83	(6)	0	(6)	0	(6)	17	(6)	50	(6)	0	(1)
BENZENE	67	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
1,2-TRANS-DICHLOROETHYLENE	67	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
PENTACHLOROPHENOL	67	(6)	17	(6)	33	(6)	0	(6)	0	(6)	0	(1)
NAPHTHALENE	67	(6)	0	(6)	0	(6)	83	(6)	100	(6)	0	(1)
BUTYL BENZYL PHTHALATE	67	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
METHYL BROMIDE	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
VINYL CHLORIDE	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
2,4-DICHLOROPHENOL	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,3-DICHLOROBENZENE	33	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)
GAMMA-BHC	33	(6)	50	(6)	50	(6)	0	(6)	0	(6)	0	(1)
ARSENIC	33	(6)	17	(6)	0	(6)	100	(6)	100	(6)	0	(1)
1,2-DICHLOROETHANE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,1-DICHLOROETHANE	17	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
1,1,2-TRICHLOROETHANE	17	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
DICHLOROBROMOMETHANE	17	(6)	33	(6)	0	(6)	0	(6)	0	(6)	100	(1)
TRICHLOROFLUOROMETHANE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
2,4,6-TRICHLOROPHENOL	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
2,4-DIMETHYLPHENOL	17	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
ALPHA-BHC	17	(6)	83	(6)	50	(6)	0	(6)	0	(6)	0	(1)
CHLOROBENZENE	0	(6)	17	(6)	17	(6)	67	(6)	50	(6)	0	(1)
1,1,2,2-TETRACHLOROETHANE	0	(6)	17	(6)	17	(6)	0	(6)	0	(6)	0	(1)
1,2-DICHLOROPROPANE	0	(6)	0	(6)	0	(6)	17	(6)	33	(6)	0	(1)
CHLORODIBROMOMETHANE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	100	(1)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	50	(6)	100	(6)	0	(1)
1,2-BENZANTHRACENE	0	(6)	0	(6)	0	(6)	17	(6)	83	(6)	0	(1)
BENZO (A)PYRENE	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)	0	(1)
CHRYSENE	0	(6)	0	(6)	0	(6)	17	(6)	83	(6)	0	(1)
ANTHRACENE	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 16

PARAMETER	AVERAGE INFLUENT		SECONDARY EFFLUENT		TERTIARY EFFLUENT		COMBINED SLUDGE		UDGE TAP		WATER,	
PYRENE	0	(6)	0	(6)	0	(6)	50	(6)	83	(6)	0	(1)
4,4'-DDD	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
ANTIMONY	0	(6)	0	(6)	0	(6)	100	(5)	100	(5)	0	(1)
BERYLLIUM	0	(6)	0	(6)	0	(6)	67	(6)	50	(6)	0	(1)
SELENIUM	0	(6)	0	(6)	0	(6)	80	(5)	100	(5)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 17

PARAMETER	INFLUENT		SECONDARY EFFLUENT		OTHER EFFLUENT		PRIMARY SLUDGE		COMBINED SLUDGE		SECONDARY SLUDGE		TAP WATER	
1,1,1-TRICHLOROETHANE	100	(6)	33	(6)	100	(6)	17	(6)	50	(6)	0	(6)	0	(1)
CHLOROFORM	100	(6)	100	(6)	83	(6)	0	(6)	0	(6)	0	(6)	100	(1)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	0	(6)	0	(6)	100	(6)	100	(6)	83	(6)	0	(1)
ETHYLBENZENE	100	(6)	0	(6)	67	(6)	100	(6)	100	(6)	83	(6)	0	(1)
METHYLENE CHLORIDE	100	(6)	100	(6)	100	(6)	50	(6)	83	(6)	17	(6)	0	(1)
TETRACHLOROETHYLENE	100	(6)	100	(6)	100	(6)	17	(6)	50	(6)	0	(6)	0	(1)
TOLUENE	100	(6)	67	(6)	50	(6)	100	(6)	100	(6)	100	(6)	0	(1)
TRICHLOROETHYLENE	100	(6)	0	(6)	67	(6)	100	(6)	17	(6)	17	(6)	0	(1)
PHENOL	100	(6)	67	(6)	50	(6)	33	(6)	50	(6)	67	(6)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	83	(6)	0	(1)
CADMIUM	100	(6)	67	(6)	0	(6)	100	(6)	100	(6)	100	(6)	0	(1)
CHROMIUM	100	(6)	83	(6)	100	(6)	50	(6)	100	(6)	100	(6)	0	(1)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
CYANIDE	100	(6)	100	(6)	100	(5)	100	(6)	100	(6)	100	(6)	0	( )
LEAD	100	(6)	33	(6)	0	(6)	100	(5)	100	(6)	100	(6)	0	(1)
MERCURY	100	(6)	0	(6)	0	(6)	33	(6)	100	(6)	50	(6)	0	(1)
SILVER	100	(6)	33	(6)	0	(6)	83	(6)	100	(6)	100	(6)	0	(1)
ZINC	100	(6)	100	(6)	83	(6)	100	(6)	100	(6)	100	(6)	0	(1)
PENTACHLOROPHENOL	83	(6)	67	(6)	67	(6)	0	(6)	33	(6)	0	(6)	0	(1)
NICKEL	83	(6)	83	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
BUTYL BENZYL PHTHALATE	67	(6)	0	(6)	0	(6)	17	(6)	100	(6)	0	(6)	0	(1)
DIETHYL PHTHALATE	67	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,1-DICHLOROETHANE	50	(6)	0	(6)	0	(6)	100	(6)	83	(6)	0	(6)	0	(1)
NAPHTHALENE	50	(6)	0	(6)	0	(6)	0	(6)	83	(6)	17	(6)	0	(1)
BENZENE	33	(6)	0	(6)	0	(6)	33	(6)	50	(6)	17	(6)	0	(1)
DI-N-BUTYL PHTHALATE	33	(6)	83	(6)	83	(6)	0	(6)	100	(6)	17	(6)	100	(1)
HEPTACHLOR	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
ALPHA-BHC	17	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
GAMMA-BHC	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
CARBON TETRACHLORIDE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)	0	(1)
1,2-DICHLOROPROPANE	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
METHYL CHLORIDE	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)	0	(6)	0	(1)
DICHLORODIFLUOROMETHANE	0	(6)	0	(6)	0	(6)	17	(6)	33	(6)	17	(6)	0	(1)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
1,2-BENZANTHRACENE	0	(6)	0	(6)	0	(6)	0	(6)	83	(6)	0	(6)	0	(1)
CHRYSENE	0	(6)	0	(6)	0	(6)	0	(6)	83	(6)	0	(6)	0	(1)
ANTHRACENE	0	(6)	0	(6)	0	(6)	33	(6)	83	(6)	0	(6)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	33	(6)	83	(6)	0	(6)	0	(1)
PYRENE	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
BETA-BHC	0	(6)	33	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
ANTIMONY	0	(6)	0	(6)	0	(6)	0	(5)	100	(5)	0	(5)	0	(1)
ARSENIC	0	(6)	0	(6)	0	(6)	33	(6)	100	(6)	17	(6)	0	(1)
SELENIUM	0	(6)	0	(6)	0	(6)	0	(5)	100	(5)	0	(5)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 18

PARAMETER	INFLUENT		PRE CL EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		TAP WATER	
1,1,1-TRICHLOROETHANE	100	(6)	100	(6)	100	(6)	0	(6)	0	(1)
METHYLENE CHLORIDE	100	(6)	83	(6)	100	(6)	83	(6)	100	(1)
TETRACHLOROETHYLENE	100	(6)	100	(6)	0	(6)	0	(6)	100	(1)
TOLUENE	100	(6)	0	(6)	100	(6)	100	(6)	0	(1)
TRICHLOROETHYLENE	100	(6)	100	(6)	100	(6)	40	(5)	0	(1)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
COPPER	100	(6)	83	(6)	100	(6)	100	(6)	100	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	0	( )
LEAD	100	(6)	67	(6)	100	(6)	100	(6)	0	(1)
MERCURY	100	(6)	83	(6)	100	(6)	17	(6)	0	(1)
NICKEL	100	(6)	83	(6)	100	(6)	100	(6)	0	(1)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
BENZENE	83	(6)	0	(6)	100	(6)	33	(6)	0	(1)
CHLOROFORM	83	(6)	17	(6)	67	(6)	0	(6)	100	(1)
ETHYLBENZENE	83	(6)	0	(6)	83	(6)	33	(6)	0	(1)
PHENOL	83	(6)	17	(6)	83	(6)	100	(6)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	83	(6)	83	(6)	100	(6)	100	(6)	100	(1)
BUTYL BENZYL PHTHALATE	83	(6)	0	(6)	83	(6)	33	(6)	0	(1)
SILVER	83	(6)	67	(6)	100	(6)	100	(6)	0	(1)
GAMMA-BHC	67	(6)	100	(6)	0	(6)	0	(6)	0	(1)
CADMIUM	50	(6)	0	(6)	100	(6)	100	(6)	0	(1)
1,1-DICHLOROETHANE	33	(6)	0	(6)	33	(6)	50	(6)	0	(1)
NAPHTHALENE	33	(6)	0	(6)	100	(6)	0	(6)	0	(1)
DI-N-BUTYL PHTHALATE	33	(6)	67	(6)	100	(6)	67	(6)	0	(1)
DI-N-OCTYL PHTHALATE	33	(6)	17	(6)	17	(6)	33	(6)	0	(1)
1,2-DICHLOROETHANE	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
TRICHLOROFLUOROMETHANE	17	(6)	0	(6)	100	(6)	0	(6)	0	(1)
2-CHLOROPHENOL	17	(6)	0	(6)	33	(6)	0	(6)	0	(1)
2,4-DICHLOROPHENOL	17	(6)	17	(6)	100	(6)	0	(6)	0	(1)
2,4-DIMETHYLPHENOL	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
PENTACHLOROPHENOL	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
ALPHA-BHC	17	(6)	33	(6)	0	(6)	0	(6)	0	(1)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	83	(6)	83	(6)	0	(1)
1,2-TRANS-DICHLOROETHYLENE	0	(6)	0	(6)	100	(6)	50	(6)	0	(1)
DIETHYL PHTHALATE	0	(6)	0	(6)	0	(6)	17	(6)	0	(1)
1,2-BENZANTHRACENE	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
CHRYSENE	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
ANTHRACENE	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
FLUORENE	0	(6)	0	(6)	67	(6)	0	(6)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
PYRENE	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
CHLORDANE	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
ANTIMONY	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
ARSENIC	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
SELENIUM	0	(6)	0	(6)	67	(6)	0	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 19

PARAMETER	INFLUENT		PRIMARY EFFLUENT		PRE CL EFFLUENT		OTHER EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		TAP WATER	
BENZENE	100	(6)	100	(6)	0	(6)	0	(6)	67	(6)	67	(6)	0	(1)
1,1,1-TRICHLOROETHANE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
CHLOROFORM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
ETHYLBENZENE	100	(6)	100	(6)	100	(6)	83	(6)	100	(6)	83	(6)	0	(1)
METHYLENE CHLORIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
TETRACHLOROETHYLENE	100	(6)	100	(6)	100	(6)	100	(6)	0	(6)	0	(6)	0	(1)
TOLUENE	100	(6)	100	(6)	100	(6)	83	(6)	100	(6)	100	(6)	0	(1)
TRICHLOROETHYLENE	100	(6)	100	(6)	83	(6)	100	(6)	100	(6)	67	(6)	0	(1)
PHENOL	100	(6)	100	(6)	17	(6)	17	(6)	100	(6)	83	(6)	0	(1)
BUTYL BENZYL PHTHALATE	100	(6)	83	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
CADMIUM	100	(6)	100	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
CHROMIUM	100	(6)	100	(6)	83	(6)	100	(6)	100	(6)	100	(6)	0	(1)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
MERCURY	100	(6)	100	(6)	33	(6)	33	(6)	100	(6)	100	(6)	0	(1)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
ZINC	100	(6)	100	(6)	83	(6)	83	(6)	100	(6)	100	(6)	100	(1)
CHLOROBENZENE	83	(6)	83	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,2-TRANS-DICHLOROETHYLENE	83	(6)	83	(6)	0	(6)	0	(6)	17	(6)	100	(6)	0	(1)
1,2-DICHLOROPROPANE	83	(6)	50	(6)	83	(6)	67	(6)	0	(6)	0	(6)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	83	(6)	83	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
SILVER	83	(6)	100	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
2-CHLOROPHENOL	67	(6)	83	(6)	0	(6)	0	(6)	83	(6)	0	(6)	0	(1)
NAPHTHALENE	67	(6)	83	(6)	0	(6)	0	(6)	100	(6)	17	(6)	0	(1)
GAMMA-BHC	67	(6)	67	(6)	33	(6)	50	(6)	0	(6)	0	(6)	0	(1)
LEAD	67	(6)	17	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
2,4-DIMETHYLPHENOL	50	(6)	50	(6)	67	(6)	17	(6)	0	(6)	0	(6)	0	(1)
DIETHYL PHTHALATE	50	(6)	50	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,2-DICHLOROETHANE	33	(6)	33	(6)	33	(6)	33	(6)	0	(6)	0	(6)	0	(1)
1,1-DICHLOROETHANE	33	(6)	33	(6)	33	(6)	17	(6)	33	(6)	100	(6)	0	(1)
METHYL CHLORIDE	33	(6)	100	(6)	100	(6)	83	(6)	0	(6)	0	(6)	0	(1)
VINYL CHLORIDE	33	(6)	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,2-DICHLOROBENZENE	33	(6)	50	(6)	33	(6)	50	(6)	100	(6)	100	(6)	0	(1)
1,4-DICHLOROBENZENE	33	(6)	17	(6)	17	(6)	17	(6)	100	(6)	100	(6)	0	(1)
TRICHLOROFLUOROMETHANE	17	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
DICHLORODIFLUOROMETHANE	17	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
DI-N-BUTYL PHTHALATE	17	(6)	0	(6)	0	(6)	0	(6)	100	(6)	33	(6)	0	(1)
4,4'-DDD	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
HEPTACHLOR	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,1,2,2-TETRACHLOROETHANE	0	(6)	17	(6)	0	(6)	0	(6)	100	(6)	33	(6)	0	(1)
METHYL BROMIDE	0	(6)	17	(6)	33	(6)	33	(6)	0	(6)	0	(6)	0	(1)
2,4,6-TRICHLOROPHENOL	0	(6)	17	(6)	0	(6)	0	(6)	33	(6)	0	(6)	0	(1)
2,4-DICHLOROPHENOL	0	(6)	17	(6)	33	(6)	33	(6)	50	(6)	0	(6)	0	(1)
PENTACHLOROPHENOL	0	(6)	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)	0	(1)
1,2,4-TRICHLOROBENZENE	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	83	(6)	0	(1)
1,3-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	67	(6)	0	(1)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
DI-N-OCTYL PHTHALATE	0	(6)	17	(6)	0	(6)	0	(6)	17	(6)	17	(6)	0	(1)
ANTHRACENE	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
PYRENE	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	67	(6)	0	(1)
4,4'-DDE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 19

PARAMETER	INFLUENT		PRIMARY EFFLUENT		PRE CL EFFLUENT		OTHER EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		TAP WATER	
ANTIMONY	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
ARSENIC	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
SELENIUM	0	(6)	0	(6)	17	(6)	0	(6)	83	(6)	17	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 20

PARAMETER	INFLUENT		PRE CL EFFLUENT		TERITARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		NITRIFICAT. SLUDGE	
1,1,1-TRICHLOROETHANE	100	(6)	33	(6)	0	(6)	0	(6)	0	(6)	0	(2)
CHLOROFORM	100	(6)	100	(6)	100	(6)	0	(6)	0	(6)	0	(2)
ETHYLBENZENE	100	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(2)
METHYLENE CHLORIDE	100	(6)	100	(6)	100	(6)	0	(6)	0	(6)	0	(2)
TETRACHLOROETHYLENE	100	(6)	83	(6)	0	(6)	0	(6)	0	(6)	0	(2)
TOLUENE	100	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(2)
TRICHLOROETHYLENE	100	(6)	33	(6)	0	(6)	33	(6)	0	(6)	0	(2)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	67	(6)	83	(6)	100	(6)	100	(6)	100	(2)
GAMMA-BHC	100	(6)	67	(6)	83	(6)	0	(6)	0	(6)	0	(2)
CHROMIUM	100	(6)	17	(6)	0	(6)	100	(6)	100	(6)	100	(2)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(2)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(2)
MERCURY	100	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(2)
NICKEL	100	(6)	83	(6)	67	(6)	100	(6)	100	(6)	100	(2)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(2)
1,1-DICHLOROETHANE	83	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(2)
1,2-TRANS-DICHLOROETHYLENE	83	(6)	0	(6)	0	(6)	83	(6)	0	(6)	0	(2)
BUTYL BENZYL PHTHALATE	83	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(2)
BENZENE	67	(6)	0	(6)	0	(6)	83	(6)	0	(6)	0	(2)
DICHLORODIFLUOROMETHANE	67	(6)	33	(6)	33	(6)	0	(6)	0	(6)	0	(2)
2,4,6-TRICHLOROPHENOL	67	(6)	50	(6)	0	(6)	0	(6)	0	(6)	0	(2)
PHENOL	67	(6)	17	(6)	0	(6)	33	(6)	33	(6)	50	(2)
1,2,4-TRICHLOROBENZENE	67	(6)	0	(6)	0	(6)	50	(6)	17	(6)	0	(2)
SILVER	67	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(2)
DI-N-BUTYL PHTHALATE	50	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(2)
DIETHYL PHTHALATE	50	(6)	0	(6)	0	(6)	17	(6)	17	(6)	50	(2)
CARBON TETRACHLORIDE	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(2)
METHYL BROMIDE	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(2)
ISOPHORONE	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(2)
LEAD	33	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(2)
METHYL CHLORIDE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(2)
CHLORODIBROMOMETHANE	17	(6)	67	(6)	83	(6)	0	(6)	0	(6)	0	(2)
VINYL CHLORIDE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(2)
2,4-DICHLOROPHENOL	17	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(2)
2,4-DIMETHYLPHENOL	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(2)
4,4'-DDD	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(2)
HEPTACHLOR EPOXIDE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(2)
ARSENIC	17	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(2)
BROMOFORM	0	(6)	0	(6)	67	(6)	0	(6)	0	(6)	0	(2)
DICHLOROBROMOMETHANE	0	(6)	83	(6)	100	(6)	0	(6)	0	(6)	0	(2)
1,2-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)	0	(2)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	50	(2)
NAPHTHALENE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	50	(2)
1,2-BENZANTHRACENE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	50	(2)
11,12-BENZOFLUORANTHENE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	50	(2)
CHRYSENE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	50	(2)
ACENAPHTHYLENE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	50	(2)
ANTHRACENE	0	(6)	0	(6)	0	(6)	33	(6)	17	(6)	50	(2)
1,12-BENZOPERYLENE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	50	(2)
FLUORENE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	50	(2)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	33	(6)	17	(6)	50	(2)
PYRENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	50	(2)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 20

PARAMETER	INFLUENT		PRE CL EFFLUENT		TERITARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		NITRIFICAT. SLUDGE	
ALPHA-BHC	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(2)
ANTIMONY	0	(6)	0	(6)	0	(6)	100	(5)	20	(5)	0	(1)
CADMIUM	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(2)
SELENIUM	0	(6)	0	(6)	0	(6)	100	(5)	0	(5)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 21

PARAMETER	INFLUENT		PRE CL EFFLUENT		TERTIARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		TAP WATER	
1,1,1-TRICHLOROETHANE	100	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
CHLOROFORM	100	(6)	100	(6)	100	(6)	50	(6)	0	(6)	0	(1)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	0	(6)	0	(6)	83	(6)	0	(6)	0	(1)
ETHYLBENZENE	100	(6)	0	(6)	33	(6)	83	(6)	0	(6)	0	(1)
METHYLENE CHLORIDE	100	(6)	100	(6)	67	(6)	100	(6)	67	(6)	0	(1)
TETRACHLOROETHYLENE	100	(6)	100	(6)	0	(6)	50	(6)	83	(6)	0	(1)
TOLUENE	100	(6)	100	(6)	0	(6)	100	(6)	83	(6)	0	(1)
TRICHLOROETHYLENE	100	(6)	0	(6)	0	(6)	100	(6)	17	(6)	0	(1)
2,4-DIMETHYLPHENOL	100	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
PENTACHLOROPHENOL	100	(6)	100	(6)	100	(6)	83	(6)	83	(6)	100	(1)
PHENOL	100	(6)	100	(6)	83	(6)	0	(6)	0	(6)	100	(1)
NAPHTHALENE	100	(6)	17	(6)	0	(6)	100	(6)	0	(6)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	83	(6)	83	(6)	100	(6)	83	(6)	0	(1)
BUTYL BENZYL PHTHALATE	100	(6)	0	(6)	17	(6)	100	(6)	17	(6)	100	(1)
DIETHYL PHTHALATE	100	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
CHROMIUM	100	(6)	100	(6)	17	(6)	100	(6)	100	(6)	0	(1)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
CYANIDE	100	(5)	100	(6)	100	(6)	100	(6)	100	(6)	0	( )
MERCURY	100	(6)	83	(6)	17	(6)	100	(6)	100	(6)	0	(1)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
ZINC	100	(6)	100	(6)	33	(6)	100	(6)	100	(6)	0	(1)
2,4-DICHLOROPHENOL	83	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
GAMMA-BHC	83	(6)	50	(6)	50	(6)	0	(6)	0	(6)	0	(1)
1,2-DICHLOROETHANE	67	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,2-DICHLOROBENZENE	50	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)
DI-N-BUTYL PHTHALATE	50	(6)	67	(6)	67	(6)	83	(6)	50	(6)	100	(1)
ALPHA-BHC	50	(6)	83	(6)	33	(6)	0	(6)	0	(6)	0	(1)
METHYL CHLORIDE	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,4-DICHLOROBENZENE	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
LEAD	33	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
BETA-BHC	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
ARSENIC	17	(6)	17	(6)	0	(6)	100	(6)	100	(6)	0	(1)
BENZENE	0	(6)	0	(6)	0	(6)	33	(6)	33	(6)	0	(1)
CHLOROBENZENE	0	(6)	0	(6)	0	(6)	83	(6)	0	(6)	0	(1)
1,1,2-TRICHLOROETHANE	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)	0	(1)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	0	(6)	50	(6)	0	(6)	0	(1)
1,2-DICHLOROPROPANE	0	(6)	0	(6)	0	(6)	17	(6)	33	(6)	0	(1)
BROMOFORM	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	100	(1)
DICHLOROBROMOMETHANE	0	(6)	0	(6)	100	(6)	0	(6)	0	(6)	100	(1)
DICHLORODIFLUOROMETHANE	0	(6)	0	(6)	0	(6)	67	(6)	50	(6)	0	(1)
CHLORODIBROMOMETHANE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	100	(1)
ACENAPHTHENE	0	(6)	0	(6)	0	(6)	83	(6)	50	(6)	0	(1)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	83	(6)	67	(6)	0	(1)
DI-N-OCTYL PHTHALATE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
CHRYSENE	0	(6)	0	(6)	0	(6)	83	(6)	50	(6)	0	(1)
ACENAPHTHYLENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)
FLUORENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	83	(6)	50	(6)	0	(1)
PYRENE	0	(6)	0	(6)	0	(6)	83	(6)	83	(6)	0	(1)
ANTIMONY	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
BERYLLIUM	0	(6)	0	(6)	0	(6)	67	(6)	50	(6)	0	(1)
CADMIUM	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 21

PARAMETER	INFLUENT		PRE CL EFFLUENT		TERTIARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		TAP WATER	
SELENIUM	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
SILVER	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 22

PARAMETER	INFLUENT		PRE CL EFFLUENT		TERTIARY EFFLUENT		COMBINED SLUDGE		TAP WATER	
1,1,1-TRICHLOROETHANE	100	(6)	0	(6)	0	(6)	0	(6)	0	(1)
CHLOROFORM	100	(6)	17	(6)	50	(6)	0	(6)	100	(1)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	67	(6)	17	(6)	100	(6)	0	(1)
ETHYLBENZENE	100	(6)	33	(6)	17	(6)	83	(6)	0	(1)
METHYLENE CHLORIDE	100	(6)	100	(6)	100	(6)	0	(6)	0	(1)
TETRACHLOROETHYLENE	100	(6)	100	(6)	100	(6)	0	(6)	0	(1)
TOLUENE	100	(6)	0	(6)	17	(6)	100	(6)	0	(1)
TRICHLOROETHYLENE	100	(6)	83	(6)	83	(6)	0	(6)	0	(1)
PENTACHLOROPHENOL	100	(6)	83	(6)	100	(6)	0	(6)	0	(1)
PHENOL	100	(6)	100	(6)	83	(6)	33	(6)	0	(1)
NAPHTHALENE	100	(6)	0	(6)	0	(6)	67	(6)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
BUTYL BENZYL PHTHALATE	100	(6)	67	(6)	17	(6)	83	(6)	0	(1)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
LEAD	100	(6)	67	(6)	83	(6)	100	(6)	0	(1)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
1,1,2,2-TETRACHLOROETHANE	83	(6)	17	(6)	17	(6)	0	(6)	0	(1)
SILVER	83	(6)	33	(6)	50	(6)	100	(6)	0	(1)
DI-N-BUTYL PHTHALATE	67	(6)	83	(6)	83	(6)	50	(6)	100	(1)
GAMMA-BHC	67	(6)	100	(6)	100	(6)	0	(6)	0	(1)
CADMIUM	67	(6)	0	(6)	0	(6)	83	(6)	0	(1)
DI-N-OCTYL PHTHALATE	50	(6)	17	(6)	17	(6)	0	(6)	0	(1)
2,4,6-TRICHLOROPHENOL	33	(6)	33	(6)	17	(6)	0	(6)	0	(1)
2-CHLOROPHENOL	33	(6)	17	(6)	0	(6)	0	(6)	0	(1)
2,4-DICHLOROPHENOL	33	(6)	17	(6)	0	(6)	0	(6)	0	(1)
2,4-DIMETHYLPHENOL	33	(6)	17	(6)	0	(6)	0	(6)	0	(1)
1,2,4-TRICHLOROBENZENE	33	(6)	17	(6)	0	(6)	100	(6)	0	(1)
MERCURY	33	(6)	0	(6)	0	(6)	83	(6)	0	(1)
CHLOROBENZENE	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
DICHLOROBROMOMETHANE	17	(6)	0	(6)	0	(6)	0	(6)	100	(1)
BENZENE	0	(6)	0	(6)	0	(6)	100	(6)	0	(1)
CHLOROETHANE	0	(6)	0	(6)	0	(6)	17	(6)	0	(1)
ACENAPHTHENE	0	(6)	0	(6)	0	(6)	33	(6)	0	(1)
1,2-DICHLOROBENZENE	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
1,3-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(1)
1,4-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(1)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	67	(6)	0	(1)
ISOPHORONE	0	(6)	0	(6)	33	(6)	0	(6)	0	(1)
1,2-BENZANTHRACENE	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
CHRYSENE	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
ANTHRACENE	0	(6)	0	(6)	0	(6)	50	(6)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	50	(6)	0	(1)
PYRENE	0	(6)	0	(6)	0	(6)	100	(6)	0	(1)
4,4'-DDD	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
HEPTACHLOR EPOXIDE	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)
ANTIMONY	0	(6)	0	(6)	0	(6)	83	(6)	0	(1)
ARSENIC	0	(6)	0	(6)	0	(6)	100	(6)	0	(1)
BERYLLIUM	0	(6)	0	(6)	0	(6)	33	(6)	0	(1)
SELENIUM	0	(6)	0	(6)	0	(6)	83	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 23

PARAMETER	INFLUENT		PRE CL EFFLUENT		TERTIARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		TAP WATER	
1,1,1-TRICHLOROETHANE	100	(6)	0	(6)	0	(6)	83	(6)	0	(6)	0	(1)
ETHYLBENZENE	100	(6)	33	(6)	0	(6)	100	(6)	0	(6)	0	(1)
METHYLENE CHLORIDE	100	(6)	83	(6)	100	(6)	100	(6)	100	(6)	100	(1)
TETRACHLOROETHYLENE	100	(6)	83	(6)	67	(6)	0	(6)	0	(6)	0	(1)
TOLUENE	100	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
CADMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
TRICHLOROETHYLENE	83	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
BUTYL BENZYL PHTHALATE	83	(6)	17	(6)	17	(6)	100	(6)	100	(6)	0	(1)
NICKEL	83	(6)	100	(6)	83	(6)	33	(6)	17	(6)	100	(1)
1,2-TRANS-DICHLOROETHYLENE	67	(6)	0	(6)	0	(6)	100	(6)	17	(6)	0	(1)
PHENOL	67	(6)	0	(6)	17	(6)	100	(6)	83	(6)	0	(1)
NAPHTHALENE	67	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
DI-N-BUTYL PHTHALATE	67	(6)	83	(6)	100	(6)	100	(6)	83	(6)	100	(1)
DELTA-BHC	67	(6)	33	(6)	50	(6)	0	(6)	0	(6)	0	(1)
GAMMA-BHC	50	(6)	67	(6)	83	(6)	0	(6)	0	(6)	0	(1)
CHLOROFORM	33	(6)	0	(6)	0	(6)	83	(6)	33	(6)	0	(1)
PARACHLOROMETA CRESOL	33	(6)	0	(6)	0	(6)	83	(6)	0	(6)	0	(1)
PENTACHLOROPHENOL	33	(6)	33	(6)	17	(6)	100	(6)	33	(6)	0	(1)
1,2,4-TRICHLOROBENZENE	33	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
ALPHA-BHC	33	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
SILVER	33	(6)	0	(6)	0	(6)	100	(6)	83	(6)	0	(1)
BENZENE	17	(6)	0	(6)	0	(6)	67	(6)	50	(6)	0	(1)
DIETHYL PHTHALATE	17	(6)	0	(6)	0	(6)	100	(6)	33	(6)	0	(1)
LEAD	17	(6)	17	(6)	17	(6)	100	(6)	100	(6)	0	(1)
MERCURY	17	(6)	0	(6)	0	(6)	83	(6)	0	(6)	0	(1)
1,2-DICHLOROETHANE	0	(6)	0	(6)	0	(6)	67	(6)	50	(6)	0	(1)
1,1-DICHLOROETHANE	0	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
2-CHLOROPHENOL	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)
1,2-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
1,4-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
DI-N-OCTYL PHTHALATE	0	(6)	17	(6)	17	(6)	100	(6)	100	(6)	0	(1)
ANTHRACENE	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
PYRENE	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
HEPTACHLOR	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
ANTIMONY	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
ARSENIC	0	(6)	0	(6)	0	(6)	33	(6)	17	(6)	0	(1)
BERYLLIUM	0	(6)	0	(6)	0	(6)	0	(6)	33	(6)	0	(1)
SELENIUM	0	(6)	0	(6)	0	(6)	33	(6)	17	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 24

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE	
BOD	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL SUSP. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
COD	100	(6)	100	(6)	100	(6)	100	(6)
OIL & GREASE	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL PHENOLS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL DISS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
SETTLEABLE SOLIDS	100	(6)	50	(6)	100	(6)	100	(6)
TOTAL VOLATILE SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
TOTAL VOL. SUS. SOLIDS	100	(6)	100	(5)	100	(6)	100	(2)
AMMONIA NITROGEN	100	(6)	100	(6)	100	(6)	100	(6)
TOC	100	(6)	100	(6)	100	(6)	100	(6)
PENTACHLOROPHENOL	100	(6)	100	(6)	100	(6)	0	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	17	(6)
COPPER	100	(6)	100	(6)	67	(6)	17	(6)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)
ALUMINUM	100	(6)	100	(6)	0	( )	0	( )
BARIUM	100	(6)	100	(6)	0	( )	0	( )
CALCIUM	100	(6)	100	(6)	0	( )	0	( )
IRON	100	(6)	100	(6)	0	( )	0	( )
MANGANESE	100	(6)	100	(6)	0	( )	0	( )
SODIUM	100	(6)	100	(6)	0	( )	0	( )
VOLATILE DISS. SOLIDS	83	(6)	100	(6)	100	(4)	100	(3)
CHLOROFORM	83	(6)	67	(6)	0	(6)	0	(6)
1,2-TRANS-DICHLOROETHYLENE	83	(6)	0	(6)	100	(6)	83	(6)
METHYLENE CHLORIDE	83	(6)	17	(6)	100	(6)	33	(6)
TETRACHLOROETHYLENE	83	(6)	17	(6)	67	(6)	83	(6)
TOLUENE	83	(6)	17	(6)	100	(6)	100	(6)
TRICHLOROETHYLENE	83	(6)	0	(6)	100	(6)	100	(6)
PHENOL	83	(6)	67	(6)	83	(6)	0	(6)
BUTYL BENZYL PHTHALATE	83	(6)	0	(6)	83	(6)	0	(6)
DI-N-BUTYL PHTHALATE	83	(6)	100	(6)	33	(6)	0	(6)
1,1,1-TRICHLOROETHANE	50	(6)	0	(6)	0	(6)	0	(6)
CHROMIUM	17	(6)	0	(6)	100	(6)	17	(6)
MERCURY	17	(6)	17	(6)	83	(6)	0	(6)
BENZENE	0	(6)	0	(6)	83	(6)	50	(6)
1,1,2-TRICHLOROETHANE	0	(6)	0	(6)	67	(6)	67	(6)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	17	(6)	0	(6)
CHLOROETHANE	0	(6)	0	(6)	83	(6)	100	(6)
ETHYLBENZENE	0	(6)	0	(6)	33	(6)	17	(6)
METHYL CHLORIDE	0	(6)	0	(6)	83	(6)	33	(6)
METHYL BROMIDE	0	(6)	0	(6)	83	(6)	33	(6)
DICHLORODIFLUOROMETHANE	0	(6)	0	(6)	100	(6)	100	(6)
FLUORANTHENE	0	(6)	0	(6)	17	(6)	0	(6)
CHRYSENE	0	(6)	0	(6)	17	(6)	0	(6)
PHENANTHRENE	0	(6)	0	(6)	17	(6)	0	(6)
PYRENE	0	(6)	0	(6)	17	(6)	0	(6)
HEPTACHLOR EPOXIDE	0	(6)	17	(6)	0	(6)	0	(6)
GAMMA-BHC	0	(6)	83	(6)	0	(6)	0	(6)
ANTIMONY	0	(6)	0	(6)	100	(6)	17	(6)
ARSENIC	0	(6)	0	(6)	100	(6)	17	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 24

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE	
BERYLLIUM	0	(6)	0	(6)	33	(6)	17	(6)
CADMIUM	0	(6)	0	(6)	50	(6)	17	(6)
LEAD	0	(6)	0	(6)	100	(6)	50	(6)
NICKEL	0	(6)	0	(6)	83	(6)	0	(6)
SELENIUM	0	(6)	0	(6)	50	(6)	0	(6)
SILVER	0	(6)	0	(6)	100	(6)	0	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 25

PARAMETER	INFL	SEC EFFL	PRIM SLUDGE	SEC SLUDGE	TERT EFFL 1	TERT EFFL 2	NITR SLUDGE	TAP H2O
1,1,1-TRICHLOROETHANE	100 (6)	100 (6)	100 (6)	0 (6)	83 (6)	83 (6)	0 (2)	0(1)
1,1-DICHLOROETHANE	100 (6)	17 (6)	100 (6)	100 (6)	83 (6)	83 (6)	100 (2)	0(1)
CHLOROFORM	100 (6)	100 (6)	83 (6)	17 (6)	100 (6)	100 (6)	0 (2)	100(1)
1,2-TRANS-DICHLOROETHYLENE	100 (6)	0 (6)	83 (6)	0 (6)	0 (6)	0 (6)	50 (2)	0(1)
ETHYLBENZENE	100 (6)	0 (6)	83 (6)	0 (6)	0 (6)	0 (6)	50 (2)	0(1)
METHYLENE CHLORIDE	100 (6)	100 (6)	100 (6)	33 (6)	100 (6)	83 (6)	100 (2)	0(1)
TETRACHLOROETHYLENE	100 (6)	100 (6)	100 (6)	100 (6)	83 (6)	67 (6)	100 (2)	0(1)
TOLUENE	100 (6)	17 (6)	100 (6)	100 (6)	0 (6)	17 (6)	100 (2)	0(1)
TRICHLOROETHYLENE	100 (6)	0 (6)	67 (6)	50 (6)	0 (6)	0 (6)	50 (2)	0(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100 (6)	83 (6)	100 (6)	100 (6)	67 (6)	83 (6)	100 (2)	0(1)
BUTYL BENZYL PHTHALATE	100 (6)	0 (6)	100 (6)	33 (6)	0 (6)	0 (6)	100 (2)	0(1)
GAMMA-BHC	100 (6)	100 (6)	0 (6)	0 (6)	100 (6)	83 (6)	0 (2)	0(1)
CHROMIUM	100 (6)	100 (6)	100 (6)	100 (6)	0 ( )	83 (6)	100 (2)	0(1)
COPPER	100 (6)	17 (6)	100 (6)	100 (5)	0 ( )	17 (6)	100 (2)	100(1)
CYANIDE	100 (6)	100 (6)	100 (6)	100 (6)	0 ( )	0 ( )	100 (2)	100(1)
MERCURY	100 (6)	33 (6)	67 (6)	67 (6)	0 ( )	0 (6)	100 (2)	0(1)
ZINC	100 (6)	33 (6)	100 (6)	100 (6)	0 ( )	17 (6)	100 (2)	0(1)
PHENOL	83 (6)	17 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (2)	0(1)
DIETHYL PHTHALATE	83 (6)	0 (6)	67 (6)	0 (6)	0 (6)	0 (6)	50 (2)	0(1)
CADMIUM	83 (6)	0 (6)	100 (6)	100 (6)	0 ( )	0 (6)	100 (2)	0(1)
LEAD	83 (6)	0 (6)	100 (6)	100 (6)	0 ( )	0 (6)	100 (2)	0(1)
SILVER	83 (6)	17 (6)	100 (6)	100 (6)	0 ( )	0 (6)	100 (2)	0(1)
NAPHTHALENE	67 (6)	0 (6)	100 (6)	67 (6)	0 (6)	0 (6)	0 (2)	0(1)
ALPHA-BHC	50 (6)	17 (6)	0 (6)	0 (6)	33 (6)	17 (6)	0 (2)	0(1)
NICKEL	50 (6)	0 (6)	100 (6)	67 (6)	0 ( )	0 (6)	100 (2)	0(1)
BENZENE	33 (6)	0 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (2)	0(1)
1,2-DICHLOROBENZENE	17 (6)	0 (6)	100 (6)	33 (6)	0 (6)	0 (6)	0 (2)	0(1)
DI-N-BUTYL PHTHALATE	17 (6)	50 (6)	100 (6)	50 (6)	50 (6)	33 (6)	100 (2)	0(1)
1,2-DICHLOROETHANE	0 (6)	0 (6)	0 (6)	17 (6)	0 (6)	0 (6)	0 (2)	0(1)
1,1-DICHLOROETHYLENE	0 (6)	0 (6)	0 (6)	17 (6)	0 (6)	0 (6)	0 (2)	0(1)
DICHLOROBROMOMETHANE	0 (6)	0 (6)	0 (6)	17 (6)	0 (6)	100 (6)	0 (2)	100(1)
DICHLORODIFLUOROMETHANE	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (2)	100(1)
CHLORODIBROMOMETHANE	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	83 (6)	0 (2)	100(1)
1,3-DICHLOROBENZENE	0 (6)	0 (6)	100 (6)	0 (6)	0 (6)	0 (6)	0 (2)	0(1)
1,4-DICHLOROBENZENE	0 (6)	0 (6)	100 (6)	33 (6)	0 (6)	0 (6)	0 (2)	0(1)
FLUORANTHENE	0 (6)	0 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (2)	0(1)
DI-N-OCTYL PHTHALATE	0 (6)	0 (6)	100 (6)	83 (6)	17 (6)	33 (6)	100 (2)	0(1)
DIMETHYL PHTHALATE	0 (6)	0 (6)	83 (6)	100 (6)	0 (6)	0 (6)	100 (2)	0(1)
1,2-BENZANTHRACENE	0 (6)	0 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (2)	0(1)
BENZO (A)PYRENE	0 (6)	0 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (2)	0(1)
3,4-BENZOFLUORANTHENE	0 (6)	0 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (2)	0(1)
11,12-BENZOFLUORANTHENE	0 (6)	0 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (2)	0(1)
CHRYSENE	0 (6)	0 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (2)	0(1)
ANTHRACENE	0 (6)	0 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (2)	0(1)
1,12-BENZOPERYLENE	0 (6)	0 (6)	100 (6)	0 (6)	0 (6)	0 (6)	0 (2)	0(1)
PHENANTHRENE	0 (6)	0 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (2)	0(1)
INDENO(1,2,3-C,D) PYRENE	0 (6)	0 (6)	100 (6)	0 (6)	0 (6)	0 (6)	0 (2)	0(1)
PYRENE	0 (6)	0 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (2)	0(1)
4,4'-DDD	0 (6)	0 (6)	0 (6)	0 (6)	67 (6)	33 (6)	0 (2)	0(1)
DELTA-BHC	0 (6)	33 (6)	0 (6)	0 (6)	17 (6)	33 (6)	0 (2)	0(1)
ANTIMONY	0 (6)	0 (6)	100 (6)	83 (6)	0 ( )	0 (6)	100 (2)	0(1)
ARSENIC	0 (6)	0 (6)	100 (6)	67 (6)	0 ( )	0 (6)	50 (2)	0(1)
SELENIUM	0 (6)	0 (6)	83 (6)	83 (6)	0 ( )	0 (6)	100 (2)	0(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 26

PARAMETER	INFL	SEC EFFL	COMB SLUDGE	SEC SLUDGE	VAC FILT FILTRATE	OTHER RECYC	OTHER SOURCE	TAP H2O
BENZENE	100 (6)	0 (6)	83 (6)	0 (6)	50 (6)	0 (1)	0 (1)	0(1)
1,1,1-TRICHLOROETHANE	100 (6)	50 (6)	0 (6)	0 (6)	100 (6)	0 (1)	0 (1)	0(1)
1,2-TRANS-DICHLOROETHYLENE	100 (6)	0 (6)	100 (6)	100 (6)	100 (6)	0 (1)	100 (1)	0(1)
ETHYLBENZENE	100 (6)	0 (6)	100 (6)	67 (6)	100 (6)	0 (1)	100 (1)	0(1)
METHYLENE CHLORIDE	100 (6)	100 (6)	100 (6)	100 (6)	50 (6)	0 (1)	100 (1)	100(1)
TETRACHLOROETHYLENE	100 (6)	100 (6)	17 (6)	67 (6)	100 (6)	0 (1)	100 (1)	0(1)
TOLUENE	100 (6)	0 (6)	100 (6)	83 (6)	100 (6)	0 (1)	100 (1)	100(1)
TRICHLOROETHYLENE	100 (6)	33 (6)	17 (6)	83 (6)	100 (6)	0 (1)	100 (1)	0(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100 (6)	100 (6)	100 (6)	100 (6)	83 (6)	100 (1)	100 (1)	100(1)
CHROMIUM	100 (6)	100 (6)	100 (6)	100 (6)	100 (6)	100 (1)	100 (1)	0(1)
COPPER	100 (6)	83 (6)	100 (6)	100 (6)	100 (6)	100 (1)	100 (1)	0(1)
CYANIDE	100 (6)	100 (6)	100 (6)	100 (6)	100 (6)	100 (1)	100 (1)	100(1)
NICKEL	100 (6)	83 (6)	83 (6)	100 (6)	100 (6)	100 (1)	100 (1)	0(1)
ZINC	100 (6)	100 (6)	100 (6)	100 (6)	100 (6)	100 (1)	100 (1)	0(1)
CHLOROFORM	83 (6)	100 (6)	0 (6)	0 (6)	83 (6)	0 (1)	100 (1)	100(1)
MERCURY	83 (6)	0 (6)	100 (6)	100 (6)	100 (6)	100 (1)	100 (1)	0(1)
HEPTACHLOR	67 (6)	33 (6)	0 (6)	0 (6)	100 (6)	0 (1)	100 (1)	0(1)
GAMMA-BHC	67 (6)	17 (6)	0 (6)	0 (6)	33 (6)	0 (1)	0 (1)	0(1)
CADMIUM	67 (6)	0 (6)	100 (6)	100 (6)	100 (6)	100 (1)	100 (1)	0(1)
PHENOL	50 (6)	0 (6)	33 (6)	50 (6)	100 (6)	100 (1)	100 (1)	0(1)
SILVER	50 (6)	0 (6)	100 (6)	100 (6)	100 (6)	100 (1)	100 (1)	0(1)
LEAD	33 (6)	0 (6)	100 (6)	100 (6)	100 (5)	100 (1)	100 (1)	0(1)
NAPHTHALENE	17 (6)	0 (6)	83 (6)	17 (6)	100 (6)	0 (1)	0 (1)	0(1)
DI-N-BUTYL PHTHALATE	17 (6)	17 (6)	0 (6)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
ACRYLONITRILE	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	100 (1)	0 (1)	0(1)
CHLOROBENZENE	0 (6)	0 (6)	0 (6)	0 (6)	33 (6)	0 (1)	0 (1)	0(1)
BROMOFORM	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (1)	0 (1)	100(1)
DICHLOROBROMOMETHANE	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (1)	0 (1)	100(1)
DICHLORODIFLUOROMETHANE	0 (6)	0 (6)	0 (6)	17 (6)	0 (6)	0 (1)	0 (1)	0(1)
CHLORODIBROMOMETHANE	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (1)	0 (1)	100(1)
2-CHLOROPHENOL	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	0 (1)	0 (1)	0(1)
2,4-DICHLOROPHENOL	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	0 (1)	0 (1)	0(1)
2,4-DIMETHYLPHENOL	0 (6)	0 (6)	0 (6)	0 (6)	33 (6)	0 (1)	0 (1)	0(1)
2-NITROPHENOL	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	100 (1)	0 (1)	0(1)
PENTACHLOROPHENOL	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	0 (1)	0 (1)	0(1)
HEXACHLOROBENZENE	0 (6)	0 (6)	33 (6)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
2-CHLORONAPHTHALENE	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	0 (1)	0 (1)	0(1)
1,3-DICHLOROBENZENE	0 (6)	0 (6)	17 (6)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
1,4-DICHLOROBENZENE	0 (6)	0 (6)	17 (6)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
FLUORANTHENE	0 (6)	0 (6)	83 (6)	17 (6)	0 (6)	0 (1)	0 (1)	0(1)
DI-N-OCTYL PHTHALATE	0 (6)	17 (6)	0 (6)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
DIMETHYL PHTHALATE	0 (6)	0 (6)	17 (6)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
CHRYSENE	0 (6)	0 (6)	83 (6)	17 (6)	0 (6)	0 (1)	0 (1)	0(1)
ANTHRACENE	0 (6)	0 (6)	83 (6)	33 (6)	0 (6)	0 (1)	0 (1)	0(1)
PHENANTHRENE	0 (6)	0 (6)	83 (6)	33 (6)	0 (6)	0 (1)	0 (1)	0(1)
PYRENE	0 (6)	0 (6)	67 (6)	17 (6)	0 (6)	0 (1)	0 (1)	0(1)
ALDRIN	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	100 (1)	0 (1)	0(1)
HEPTACHLOR EPOXIDE	0 (6)	0 (6)	0 (6)	0 (6)	50 (6)	0 (1)	0 (1)	0(1)
ANTIMONY	0 (6)	0 (6)	100 (6)	100 (6)	0 (6)	0 (1)	0 (1)	0(1)
ARSENIC	0 (6)	0 (6)	100 (6)	100 (6)	83 (6)	100 (1)	100 (1)	0(1)
BERYLLIUM	0 (6)	0 (6)	17 (6)	0 (6)	17 (6)	0 (1)	0 (1)	0(1)
SELENIUM	0 (6)	0 (6)	100 (6)	100 (6)	83 (6)	100 (1)	0 (1)	0(1)

POLLUTANTS NOT LISTED HERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 27

PARAMETER	INFLUENT		PRE CL EFFLUENT		OTHER EFFLUENT		COMBINED SLUDGE		SECONDARY SLUDGE		OTHER SLUDGE		TAP WATER	
CHLOROFORM	100	(6)	100	(6)	83	(6)	0	(6)	0	(6)	0	(6)	100	(1)
METHYLENE CHLORIDE	100	(6)	100	(6)	67	(6)	100	(6)	67	(6)	83	(6)	0	(1)
TETRACHLOROETHYLENE	100	(6)	83	(6)	100	(6)	17	(6)	17	(6)	0	(6)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	50	(6)	100	(6)	100	(6)	67	(6)	100	(6)	100	(1)
BUTYL BENZYL PHTHALATE	100	(6)	0	(6)	17	(6)	100	(6)	17	(6)	83	(6)	0	(1)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
MERCURY	100	(6)	17	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
BENZENE	83	(6)	0	(6)	0	(6)	100	(6)	83	(6)	33	(6)	0	(1)
1,1,1-TRICHLOROETHANE	83	(6)	17	(6)	83	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,2-TRANS-DICHLOROETHYLENE	83	(6)	0	(6)	0	(6)	83	(6)	83	(6)	100	(6)	0	(1)
ETHYLBENZENE	83	(6)	0	(6)	83	(6)	100	(6)	0	(6)	67	(6)	0	(1)
TOLUENE	83	(6)	0	(6)	83	(6)	100	(6)	100	(6)	100	(6)	0	(1)
TRICHLOROETHYLENE	83	(6)	0	(6)	83	(6)	17	(6)	0	(6)	0	(6)	0	(1)
NAPHTHALENE	67	(6)	0	(6)	0	(6)	100	(6)	17	(6)	100	(6)	0	(1)
DI-N-BUTYL PHTHALATE	67	(6)	0	(6)	67	(6)	100	(6)	17	(6)	100	(6)	0	(1)
SILVER	67	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(6)	0	(1)
2,4-DIMETHYLPHENOL	50	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
DIETHYL PHTHALATE	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)	0	(1)
TRICHLOROFLUOROMETHANE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
HEXACHLOROETHANE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
ISOPHORONE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
DIMETHYL PHTHALATE	17	(6)	0	(6)	0	(6)	0	(6)	33	(6)	17	(6)	0	(1)
ANTHRACENE	17	(6)	0	(6)	0	(6)	100	(6)	83	(6)	100	(6)	0	(1)
PHENANTHRENE	17	(6)	0	(6)	0	(6)	100	(6)	83	(6)	100	(6)	0	(1)
SELENIUM	17	(6)	33	(6)	17	(6)	100	(6)	100	(6)	100	(6)	0	(1)
1,1-DICHLOROETHANE	0	(6)	0	(6)	0	(6)	83	(6)	0	(6)	0	(6)	0	(1)
1,1-DICHLOROETHYLENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	17	(6)	0	(1)
DICHLOROBROMOMETHANE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	100	(1)
CHLORODIBROMOMETHANE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	100	(1)
PHENOL	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(6)	0	(1)
1,2-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	67	(6)	0	(6)	33	(6)	0	(1)
1,4-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	67	(6)	0	(6)	33	(6)	0	(1)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	100	(6)	83	(6)	100	(6)	0	(1)
DI-N-OCTYL PHTHALATE	0	(6)	0	(6)	0	(6)	33	(6)	17	(6)	83	(6)	0	(1)
1,2-BENZANTHRACENE	0	(6)	0	(6)	0	(6)	83	(6)	50	(6)	83	(6)	0	(1)
BENZO (A)PYRENE	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)	50	(6)	0	(1)
3,4-BENZOFLUORANTHENE	0	(6)	0	(6)	0	(6)	50	(6)	33	(6)	83	(6)	0	(1)
11,12-BENZOFLUORANTHENE	0	(6)	0	(6)	0	(6)	50	(6)	33	(6)	83	(6)	0	(1)
CHRYSENE	0	(6)	0	(6)	0	(6)	83	(6)	50	(6)	83	(6)	0	(1)
FLUORENE	0	(6)	0	(6)	0	(6)	83	(6)	0	(6)	83	(6)	0	(1)
PYRENE	0	(6)	0	(6)	0	(6)	100	(6)	83	(6)	100	(6)	0	(1)
ANTIMONY	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(6)	0	(1)
ARSENIC	0	(6)	0	(6)	0	(6)	83	(6)	100	(6)	100	(6)	0	(1)
CADMIUM	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(6)	0	(1)
LEAD	0	(6)	0	(6)	17	(6)	100	(6)	100	(6)	100	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 28

PARAMETER	INFLUENT		PRIMARY EFFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		TAP WATER	
BENZENE	100	(6)	100	(6)	0	(6)	100	(6)	17	(6)	0	(1)
CARBON TETRACHLORIDE	100	(6)	83	(6)	100	(6)	67	(6)	50	(6)	0	(1)
1,2-DICHLOROETHANE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
1,1,1-TRICHLOROETHANE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
CHLOROFORM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	100	(6)	17	(6)	83	(6)	17	(6)	0	(1)
ETHYLBENZENE	100	(6)	100	(6)	100	(6)	100	(6)	50	(6)	0	(1)
METHYLENE CHLORIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
METHYL CHLORIDE	100	(6)	100	(6)	67	(6)	0	(6)	0	(6)	0	(1)
TRICHLOROFLUOROMETHANE	100	(6)	83	(6)	33	(6)	0	(6)	0	(6)	0	(1)
TETRACHLOROETHYLENE	100	(6)	100	(6)	100	(6)	0	(6)	0	(6)	0	(1)
TOLUENE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
TRICHLOROETHYLENE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
PHENOL	100	(6)	100	(6)	50	(6)	83	(6)	17	(6)	0	(1)
NAPHTHALENE	100	(6)	83	(6)	0	(6)	50	(6)	17	(6)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	83	(6)	100	(6)	100	(6)	100	(1)
BUTYL BENZYL PHTHALATE	100	(6)	67	(6)	33	(6)	17	(6)	17	(6)	0	(1)
DI-N-BUTYL PHTHALATE	100	(6)	67	(6)	17	(6)	0	(6)	0	(6)	0	(1)
CADMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
COPPER	100	(6)	100	(6)	100	(6)	100	(5)	100	(6)	100	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	( )
LEAD	100	(6)	100	(6)	50	(6)	100	(6)	100	(6)	0	(1)
MERCURY	100	(6)	100	(6)	17	(6)	100	(6)	100	(6)	0	(1)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
SILVER	100	(6)	100	(6)	0	(6)	100	(6)	100	(6)	0	(1)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	(1)
CHLOROBENZENE	83	(6)	100	(6)	0	(6)	83	(6)	0	(6)	0	(1)
1,1,2-TRICHLOROETHANE	83	(6)	100	(6)	100	(6)	0	(6)	0	(6)	0	(1)
1,1-DICHLOROETHYLENE	83	(6)	83	(6)	50	(6)	0	(6)	0	(6)	0	(1)
METHYL BROMIDE	83	(6)	83	(6)	0	(6)	0	(6)	0	(6)	0	(1)
DICHLOROBROMOMETHANE	83	(6)	67	(6)	100	(6)	0	(6)	0	(6)	0	(1)
1,1-DICHLOROETHANE	67	(6)	83	(6)	33	(6)	0	(6)	0	(6)	0	(1)
1,2-DICHLOROPROPANE	67	(6)	50	(6)	50	(6)	0	(6)	0	(6)	0	(1)
BROMOFORM	67	(6)	83	(6)	100	(6)	0	(6)	0	(6)	100	(1)
1,2-DICHLOROBENZENE	67	(6)	67	(6)	33	(6)	83	(6)	33	(6)	0	(1)
DIETHYL PHTHALATE	67	(6)	50	(6)	0	(6)	0	(6)	0	(6)	0	(1)
ALPHA-BHC	67	(6)	33	(6)	17	(6)	0	(6)	0	(6)	0	(1)
1,1,2,2-TETRACHLOROETHANE	50	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
PENTACHLOROPHENOL	50	(6)	50	(6)	33	(6)	0	(6)	0	(6)	0	(1)
VINYL CHLORIDE	33	(6)	33	(6)	0	(6)	0	(6)	0	(6)	0	(1)
DELTA-BHC	33	(6)	33	(6)	33	(6)	0	(6)	0	(6)	0	(1)
CHLORODIBROMOMETHANE	17	(6)	67	(6)	100	(6)	0	(6)	0	(6)	100	(1)
2-NITROPHENOL	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
HEXACHLOROETHANE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
2-CHLORONAPHTHALENE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,4-DICHLOROBENZENE	17	(6)	33	(6)	0	(6)	0	(6)	0	(6)	0	(1)
DI-N-OCTYL PHTHALATE	17	(6)	17	(6)	33	(6)	0	(6)	0	(6)	0	(1)
DIMETHYL PHTHALATE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
ISOPHORONE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
NITROBENZENE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	50	(6)	17	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 28

PARAMETER	INFLUENT		PRIMARY EFFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		TAP WATER	
HEPTACHLOR	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
ANTIMONY	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
ARSENIC	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
BERYLLIUM	0	(6)	0	(6)	0	(6)	83	(6)	0	(6)	0	(1)
SELENIUM	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 29

PARAMETER	INFLUENT		PRIMARY EFFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE		SECONDARY LUDGE		THICKENER OVERFLOW		TAP WATER	
1,1,1-TRICHLOROETHANE	100	(6)	100	(6)	100	(6)	0	(6)	0	(6)	0	(1)	0	(1)
CHLOROFORM	100	(6)	100	(6)	100	(6)	0	(6)	0	(6)	0	(1)	0	(1)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)	100	(1)
METHYLENE CHLORIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)	0	(1)
TETRACHLOROETHYLENE	100	(6)	83	(6)	100	(6)	0	(6)	33	(6)	0	(1)	100	(1)
TOLUENE	100	(6)	83	(6)	100	(6)	100	(6)	100	(6)	100	(1)	0	(1)
PHENOL	100	(6)	100	(6)	83	(6)	100	(6)	50	(6)	100	(1)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)	0	(1)
DI-N-BUTYL PHTHALATE	100	(6)	83	(6)	100	(6)	33	(6)	50	(6)	100	(1)	0	(1)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	17	(6)	100	(1)	0	(1)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)	100	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	0	( )	100	(1)
MERCURY	100	(6)	100	(6)	100	(6)	100	(5)	33	(6)	100	(1)	100	(1)
SILVER	100	(6)	100	(6)	100	(6)	100	(6)	50	(6)	100	(1)	0	(1)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)	0	(1)
1,1-DICHLOROETHYLENE	83	(6)	50	(6)	33	(6)	0	(6)	0	(6)	0	(1)	0	(1)
ETHYLBENZENE	83	(6)	83	(6)	17	(6)	0	(6)	0	(6)	0	(1)	0	(1)
TRICHLOROETHYLENE	83	(6)	83	(6)	100	(6)	0	(6)	0	(6)	0	(1)	100	(1)
1,1-DICHLOROETHANE	67	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)	0	(1)
NICKEL	67	(6)	100	(6)	67	(6)	100	(6)	17	(6)	100	(1)	0	(1)
BENZENE	50	(6)	83	(6)	50	(6)	0	(6)	33	(6)	100	(1)	0	(1)
DIETHYL PHTHALATE	50	(6)	50	(6)	0	(6)	17	(6)	0	(6)	0	(1)	0	(1)
PENTACHLOROPHENOL	33	(6)	67	(6)	50	(6)	67	(6)	0	(6)	0	(1)	0	(1)
1,2-DICHLOROBENZENE	33	(6)	67	(6)	33	(6)	100	(6)	17	(6)	100	(1)	0	(1)
CHLOROBENZENE	17	(6)	17	(6)	17	(6)	0	(6)	0	(6)	0	(1)	0	(1)
1,2-DICHLOROETHANE	17	(6)	17	(6)	17	(6)	0	(6)	0	(6)	0	(1)	0	(1)
DICHLORODIFLUOROMETHANE	17	(6)	33	(6)	0	(6)	0	(6)	0	(6)	0	(1)	0	(1)
1,4-DICHLOROBENZENE	17	(6)	50	(6)	17	(6)	100	(6)	0	(6)	100	(1)	0	(1)
FLUORANTHENE	17	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(1)	0	(1)
BUTYL BENZYL PHTHALATE	17	(6)	17	(6)	0	(6)	17	(6)	50	(6)	100	(1)	0	(1)
ALDRIN	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)	0	(1)
GAMMA-BHC	17	(6)	50	(6)	33	(6)	0	(6)	0	(6)	0	(1)	0	(1)
1,1,2-TRICHLOROETHANE	0	(6)	17	(6)	17	(6)	0	(6)	0	(6)	0	(1)	0	(1)
1,1,2,2-TETRACHLOROETHANE	0	(6)	17	(6)	33	(6)	0	(6)	0	(6)	0	(1)	0	(1)
BROMOFORM	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)	0	(1)
DICHLOROBROMOMETHANE	0	(6)	17	(6)	83	(6)	0	(6)	0	(6)	0	(1)	0	(1)
CHLORODIBROMOMETHANE	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)	0	(1)
2-CHLOROPHENOL	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)	0	(1)
2,4-DICHLOROPHENOL	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	100	(1)	0	(1)
1,2,4-TRICHLOROBENZENE	0	(6)	0	(6)	0	(6)	83	(6)	33	(6)	100	(1)	0	(1)
1,3-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	50	(6)	0	(6)	100	(1)	0	(1)
NAPHTHALENE	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)	100	(1)	0	(1)
DI-N-OCTYL PHTHALATE	0	(6)	0	(6)	0	(6)	17	(6)	17	(6)	100	(1)	0	(1)
1,2-BENZANTHRACENE	0	(6)	0	(6)	0	(6)	100	(6)	33	(6)	100	(1)	0	(1)
BENZO (A)PYRENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	100	(1)	0	(1)
3,4-BENZOFLUORANTHENE	0	(6)	0	(6)	0	(6)	67	(6)	17	(6)	100	(1)	0	(1)
11,12-BENZOFLUORANTHENE	0	(6)	0	(6)	0	(6)	67	(6)	17	(6)	100	(1)	0	(1)
CHRYSENE	0	(6)	0	(6)	0	(6)	100	(6)	33	(6)	100	(1)	0	(1)
ANTHRACENE	0	(6)	0	(6)	0	(6)	17	(6)	17	(6)	100	(1)	0	(1)
1,12-BENZOPERYLENE	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)	100	(1)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	17	(6)	17	(6)	100	(1)	0	(1)
1,2:5,6-DIBENZANTHRACENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	100	(1)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 29

PARAMETER	INFLUENT		PRIMARY EFFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE		SECONDARY LUDGE		THICKENER OVERFLOW		TAP WATER	
INDENO(1,2,3-C,D) PYRENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	100	(1)	0	(1)
PYRENE	0	(6)	0	(6)	0	(6)	100	(6)	67	(6)	100	(1)	0	(1)
BETA-BHC	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)	0	(1)
ANTIMONY	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(1)	0	(1)
ARSENIC	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(1)	0	(1)
CADMIUM	0	(6)	0	(6)	0	(6)	83	(6)	33	(6)	100	(1)	0	(1)
LEAD	0	(6)	83	(6)	0	(6)	100	(6)	100	(6)	100	(1)	0	(1)
SELENIUM	0	(6)	0	(6)	0	(6)	83	(6)	100	(6)	100	(1)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 30

PARAMETER	AVG INFL	PRIM EFFL	SEC EFFL	PRIM SLDG	COMB SLDG	HEAT TRT SLD	SEC SLDG	THCK OVRFLO	TAP H2O
BENZENE	100 (6)	100 (6)	50 (6)	17 (6)	100 (6)	100 (3)	0 (3)	100 (1)	0(1)
CHLOROBENZENE	100 (6)	100 (6)	67 (6)	0 (6)	100 (6)	67 (3)	100 (3)	100 (1)	0(1)
1,2-DICHLOROETHANE	100 (6)	100 (6)	100 (6)	100 (6)	100 (6)	100 (3)	100 (3)	100 (1)	0(1)
1,1,2-TRICHLOROETHANE	100 (6)	100 (6)	0 (6)	0 (6)	0 (6)	0 (3)	0 (3)	100 (1)	0(1)
CHLOROFORM	100 (6)	100 (6)	100 (6)	0 (6)	67 (6)	0 (3)	0 (3)	100 (1)	100(1)
ETHYLBENZENE	100 (6)	100 (6)	67 (6)	50 (6)	83 (6)	67 (3)	100 (3)	100 (1)	0(1)
TOLUENE	100 (6)	100 (6)	67 (6)	50 (6)	100 (6)	100 (3)	100 (3)	100 (1)	0(1)
TRICHLOROETHYLENE	100 (6)	83 (6)	0 (6)	17 (6)	50 (6)	0 (3)	0 (3)	0 (1)	0(1)
PHENOL	100 (6)	100 (6)	100 (6)	17 (6)	67 (6)	100 (3)	100 (3)	100 (1)	0(1)
DI-N-BUTYL PHTHALATE	100 (6)	83 (6)	33 (6)	0 (6)	0 (6)	0 (3)	0 (3)	100 (1)	0(1)
CHROMIUM	100 (6)	100 (6)	100 (6)	33 (6)	100 (6)	100 (3)	100 (3)	100 (1)	0(1)
COPPER	100 (6)	100 (6)	0 (6)	100 (6)	100 (6)	100 (3)	100 (3)	100 (1)	0(1)
CYANIDE	100 (6)	100 (6)	100 (6)	100 (6)	100 (6)	100 (3)	100 (3)	100 (1)	100(1)
NICKEL	100 (6)	83 (6)	83 (6)	17 (6)	100 (6)	100 (3)	100 (3)	100 (1)	0(1)
ZINC	100 (6)	100 (6)	100 (6)	100 (6)	100 (6)	100 (3)	100 (3)	100 (1)	0(1)
METHYLENE CHLORIDE	83 (6)	100 (6)	50 (6)	67 (6)	100 (6)	100 (3)	100 (3)	100 (1)	0(1)
METHYL CHLORIDE	83 (6)	67 (6)	33 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
BIS(2-ETHYLHEXYL) PHTHALATE	83 (6)	67 (6)	83 (6)	100 (6)	100 (6)	100 (3)	100 (3)	100 (1)	100(1)
MERCURY	83 (6)	100 (6)	0 (6)	0 (6)	0 (6)	67 (3)	33 (3)	100 (1)	0(1)
TETRACHLOROETHYLENE	67 (6)	67 (6)	0 (6)	33 (6)	67 (6)	0 (3)	0 (3)	100 (1)	0(1)
VINYL CHLORIDE	67 (6)	67 (6)	0 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
GAMMA-BHC	67 (6)	33 (6)	0 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
BUTYL BENZYL PHTHALATE	50 (6)	17 (6)	0 (6)	0 (6)	0 (6)	33 (3)	0 (3)	0 (1)	0(1)
DICHLOROBROMOMETHANE	33 (6)	17 (6)	67 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	100(1)
ALPHA-BHC	33 (6)	0 (6)	17 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
DELTA-BHC	33 (6)	67 (6)	33 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
CHLOROETHANE	17 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
2-CHLOROETHYL VINYL ETHER	17 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
1,2-TRANS-DICHLOROETHYLENE	17 (6)	0 (6)	0 (6)	17 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
METHYL BROMIDE	17 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
BROMOFORM	17 (6)	17 (6)	50 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
PENTACHLOROPHENOL	17 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
1,2-DIPHENYLHYDRAZINE	17 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
DIMETHYL PHTHALATE	17 (6)	17 (6)	0 (6)	0 (6)	0 (6)	33 (3)	0 (3)	0 (1)	0(1)
ALDRIN	17 (6)	33 (6)	0 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
SILVER	17 (6)	0 (6)	0 (6)	33 (6)	33 (6)	100 (3)	67 (3)	0 (1)	0(1)
1,2-DICHLOROPROPANE	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (3)	0 (3)	100 (1)	0(1)
CHLORODIBROMOMETHANE	0 (6)	0 (6)	67 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
1,2-DICHLOROBENZENE	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	33 (3)	0 (3)	0 (1)	0(1)
1,4-DICHLOROBENZENE	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	33 (3)	0 (3)	0 (1)	0(1)
FLUORANTHENE	0 (6)	0 (6)	0 (6)	17 (6)	17 (6)	33 (3)	33 (3)	0 (1)	0(1)
NAPHTHALENE	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	33 (3)	33 (3)	0 (1)	0(1)
DI-N-OCTYL PHTHALATE	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	33 (3)	0 (3)	0 (1)	0(1)
DIETHYL PHTHALATE	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	33 (3)	0 (3)	0 (1)	0(1)
1,2-BENZANTHRACENE	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	0 (3)	33 (3)	0 (1)	0(1)
3,4-BENZOFLUORANTHENE	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	0 (3)	33 (3)	0 (1)	0(1)
11,12-BENZOFLUORANTHENE	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	0 (3)	33 (3)	0 (1)	0(1)
CHRYSENE	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	0 (3)	33 (3)	0 (1)	0(1)
ACENAPHTHYLENE	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	67 (3)	0 (3)	0 (1)	0(1)
ANTHRACENE	0 (6)	0 (6)	0 (6)	17 (6)	17 (6)	33 (3)	33 (3)	0 (1)	0(1)
PHENANTHRENE	0 (6)	0 (6)	0 (6)	17 (6)	17 (6)	33 (3)	33 (3)	0 (1)	0(1)
PYRENE	0 (6)	0 (6)	0 (6)	17 (6)	17 (6)	33 (3)	67 (3)	0 (1)	0(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 30

PARAMETER	AVG INFL	PRIM EFFL	SEC EFFL	PRIM SLDG	COMB SLDG	HEAT TRT SLD	SEC SLDG	THCK OVRFLO	TAP H2O
HEPTACHLOR	0 (6)	0 (6)	17 (6)	0 (6)	0 (6)	0 (3)	0 (3)	0 (1)	0(1)
ANTIMONY	0 (6)	0 (6)	0 (6)	83 (6)	100 (5)	100 (3)	100 (2)	0 (1)	0(1)
ARSENIC	0 (6)	0 (6)	0 (6)	100 (6)	100 (6)	100 (3)	100 (2)	0 (1)	0(1)
BERYLLIUM	0 (6)	0 (6)	0 (6)	0 (6)	17 (6)	33 (3)	33 (3)	0 (1)	0(1)
CADMIUM	0 (6)	0 (6)	0 (6)	0 (6)	50 (6)	100 (3)	100 (3)	0 (1)	0(1)
LEAD	0 (6)	0 (6)	0 (6)	100 (6)	100 (6)	100 (3)	100 (3)	0 (1)	0(1)
SELENIUM	0 (6)	17 (6)	0 (6)	67 (6)	100 (6)	67 (3)	50 (2)	0 (1)	0(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 31

PARAMETER	INFLUENT		PRE CL EFFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE		SECONDARY SLUDGE		TAP WATER	
BENZENE	100	(6)	100	(6)	100	(6)	67	(6)	0	(6)	100	(1)
1,1,1-TRICHLOROETHANE	100	(6)	100	(6)	100	(6)	50	(6)	0	(6)	100	(1)
CHLOROFORM	100	(6)	50	(6)	83	(6)	100	(6)	0	(6)	100	(1)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	17	(6)	17	(6)	100	(6)	100	(6)	0	(1)
METHYLENE CHLORIDE	100	(6)	100	(6)	100	(6)	67	(6)	17	(6)	100	(1)
TETRACHLOROETHYLENE	100	(6)	83	(6)	100	(6)	0	(6)	0	(6)	0	(1)
TOLUENE	100	(6)	67	(6)	100	(6)	100	(6)	100	(6)	100	(1)
TRICHLOROETHYLENE	100	(6)	50	(6)	50	(6)	100	(6)	83	(6)	0	(1)
PHENOL	100	(6)	0	(6)	17	(6)	83	(6)	0	(6)	0	(1)
NAPHTHALENE	100	(6)	0	(6)	17	(6)	83	(6)	0	(6)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	67	(6)	100	(6)	100	(6)	100	(6)	0	(1)
ANTIMONY	100	(6)	100	(6)	100	(6)	83	(6)	100	(6)	0	(1)
ARSENIC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
SILVER	100	(6)	100	(6)	33	(6)	100	(6)	100	(6)	0	(1)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)
DI-N-BUTYL PHTHALATE	83	(6)	67	(6)	83	(6)	83	(6)	83	(6)	0	(1)
DIETHYL PHTHALATE	83	(6)	17	(6)	50	(6)	33	(6)	67	(6)	0	(1)
SELENIUM	83	(6)	83	(6)	67	(6)	100	(6)	83	(6)	0	(1)
ACENAPHTHENE	67	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,3-DICHLOROBENZENE	67	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
DIMETHYL PHTHALATE	67	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
NICKEL	67	(6)	33	(6)	17	(6)	33	(6)	17	(6)	0	(1)
ETHYLBENZENE	50	(6)	17	(6)	0	(6)	100	(6)	0	(6)	0	(1)
ANTHRACENE	50	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
PHENANTHRENE	50	(6)	0	(6)	17	(6)	83	(6)	50	(6)	0	(1)
1,2-DICHLOROETHANE	33	(6)	0	(6)	0	(6)	17	(6)	17	(6)	0	(1)
LEAD	33	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)
MERCURY	33	(6)	0	(6)	0	(6)	17	(6)	33	(6)	0	(1)
1,1,2-TRICHLOROETHANE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)
1,1-DICHLOROETHYLENE	17	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
PENTACHLOROPHENOL	17	(6)	33	(6)	50	(6)	0	(6)	0	(6)	0	(1)
FLUORANTHENE	17	(6)	0	(6)	0	(6)	83	(6)	33	(6)	0	(1)
BUTYL BENZYL PHTHALATE	17	(6)	17	(6)	33	(6)	83	(6)	0	(6)	0	(1)
1,1-DICHLOROETHANE	0	(6)	0	(6)	0	(6)	67	(6)	33	(6)	0	(1)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	0	(6)	100	(6)	83	(6)	0	(1)
DICHLOROBROMOMETHANE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	100	(1)
DICHLORODIFLUOROMETHANE	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)	0	(1)
HEXACHLOROBENZENE	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)	0	(1)
1,2-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)
1,4-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)	0	(1)
1,2-DIPHENYLHYDRAZINE	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
ISOPHORONE	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)
1,2-BENZANTHRACENE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
CHRYSENE	0	(6)	17	(6)	0	(6)	83	(6)	17	(6)	0	(1)
INDENO(1,2,3-C,D) PYRENE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)
PYRENE	0	(6)	0	(6)	0	(6)	83	(6)	100	(6)	0	(1)
BERYLLIUM	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)
CADMIUM	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 32

PARAMETER	INFL	PRIM EFFL	SEC EFFL	PRIM SLUDGE	SEC SLUDGE	VAC FILT FILTRATE	THCKNR OVERFLO	TAP H2O
BENZENE	100 (6)	100 (6)	100 (6)	0 (6)	60 (5)	100 (1)	0 (1)	0(1)
NAPHTHALENE	100 (6)	67 (6)	33 (6)	20 (5)	0 (5)	100 (1)	0 (1)	0(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100 (6)	100 (6)	83 (6)	100 (5)	100 (5)	100 (1)	100 (1)	0(1)
DI-N-BUTYL PHTHALATE	100 (6)	100 (6)	83 (6)	0 (5)	40 (5)	100 (1)	100 (1)	100(1)
DIETHYL PHTHALATE	100 (6)	100 (6)	50 (6)	20 (5)	20 (5)	0 (1)	0 (1)	0(1)
DIMETHYL PHTHALATE	100 (6)	17 (6)	0 (6)	0 (5)	0 (5)	0 (1)	0 (1)	0(1)
ANTHRACENE	100 (6)	83 (6)	0 (6)	20 (5)	0 (5)	100 (1)	100 (1)	100(1)
PHENANTHRENE	100 (6)	83 (6)	0 (6)	20 (5)	0 (5)	100 (1)	100 (1)	100(1)
CHROMIUM	100 (6)	100 (6)	100 (6)	100 (6)	100 (5)	100 (1)	100 (1)	0(1)
COPPER	100 (6)	100 (6)	100 (6)	100 (6)	100 (5)	100 (1)	100 (1)	100(1)
CYANIDE	100 (6)	100 (6)	100 (6)	100 (6)	100 (5)	100 (1)	100 (1)	100(1)
NICKEL	100 (6)	100 (6)	100 (6)	100 (6)	100 (5)	100 (1)	100 (1)	0(1)
ZINC	100 (6)	100 (6)	100 (6)	100 (6)	100 (5)	100 (1)	100 (1)	100(1)
CHLOROFORM	83 (6)	50 (6)	83 (6)	0 (6)	0 (5)	100 (1)	100 (1)	100(1)
METHYLENE CHLORIDE	83 (6)	83 (6)	83 (6)	100 (6)	60 (5)	100 (1)	100 (1)	100(1)
TOLUENE	83 (6)	83 (6)	100 (6)	100 (6)	100 (5)	100 (1)	100 (1)	100(1)
1,2,4-TRICHLOROBENZENE	83 (6)	83 (6)	67 (6)	100 (5)	60 (5)	100 (1)	100 (1)	0(1)
N-NITROSODIPHENYLAMINE	83 (6)	33 (6)	0 (6)	0 (5)	0 (5)	0 (1)	0 (1)	100(1)
LEAD	83 (6)	50 (6)	0 (6)	100 (6)	100 (5)	100 (1)	100 (1)	0(1)
SILVER	83 (6)	100 (6)	100 (6)	100 (6)	100 (5)	100 (1)	100 (1)	0(1)
1,1,1-TRICHLOROETHANE	67 (6)	67 (6)	33 (6)	0 (6)	0 (5)	0 (1)	0 (1)	0(1)
TETRACHLOROETHYLENE	67 (6)	50 (6)	0 (6)	50 (6)	0 (5)	0 (1)	0 (1)	0(1)
TRICHLOROETHYLENE	67 (6)	50 (6)	0 (6)	50 (6)	0 (5)	0 (1)	0 (1)	0(1)
1,2-DICHLOROBENZENE	67 (6)	67 (6)	33 (6)	20 (5)	0 (5)	0 (1)	100 (1)	0(1)
FLUORANTHENE	67 (6)	0 (6)	0 (6)	20 (5)	40 (5)	100 (1)	0 (1)	100(1)
BUTYL BENZYL PHTHALATE	67 (6)	50 (6)	0 (6)	20 (5)	20 (5)	0 (1)	0 (1)	0(1)
DI-N-OCTYL PHTHALATE	67 (6)	100 (6)	0 (6)	20 (5)	20 (5)	100 (1)	100 (1)	0(1)
PYRENE	67 (6)	0 (6)	0 (6)	20 (5)	60 (5)	100 (1)	0 (1)	100(1)
1,4-DICHLOROBENZENE	50 (6)	50 (6)	0 (6)	20 (5)	0 (5)	0 (1)	0 (1)	0(1)
1,2-BENZANTHRACENE	50 (6)	0 (6)	0 (6)	20 (5)	40 (5)	0 (1)	0 (1)	100(1)
CHRYSENE	50 (6)	0 (6)	0 (6)	20 (5)	40 (5)	0 (1)	0 (1)	100(1)
FLUORENE	50 (6)	0 (6)	0 (6)	0 (5)	0 (5)	0 (1)	0 (1)	0(1)
1,2-TRANS-DICHLOROETHYLENE	33 (6)	17 (6)	0 (6)	67 (6)	0 (5)	0 (1)	0 (1)	0(1)
ETHYLBENZENE	33 (6)	0 (6)	0 (6)	67 (6)	40 (5)	0 (1)	0 (1)	0(1)
ACENAPHTHENE	33 (6)	0 (6)	0 (6)	0 (5)	0 (5)	0 (1)	0 (1)	0(1)
1,2-DIPHENYLHYDRAZINE	33 (6)	33 (6)	0 (6)	0 (5)	0 (5)	0 (1)	0 (1)	0(1)
TRICHLOROFLUOROMETHANE	17 (6)	17 (6)	17 (6)	0 (6)	0 (5)	0 (1)	0 (1)	0(1)
PENTACHLOROPHENOL	17 (6)	0 (6)	0 (6)	17 (6)	20 (5)	0 (1)	0 (1)	0(1)
HEXACHLOROBENZENE	17 (6)	0 (6)	0 (6)	0 (5)	0 (5)	0 (1)	0 (1)	0(1)
2-CHLORONAPHTHALENE	17 (6)	0 (6)	0 (6)	0 (5)	0 (5)	0 (1)	0 (1)	0(1)
1,3-DICHLOROBENZENE	17 (6)	0 (6)	0 (6)	0 (5)	0 (5)	0 (1)	0 (1)	0(1)
4-BROMOPHENYL PHENYL ETHER	17 (6)	0 (6)	0 (6)	0 (5)	0 (5)	0 (1)	0 (1)	0(1)
ISOPHORONE	17 (6)	0 (6)	0 (6)	0 (5)	0 (5)	0 (1)	0 (1)	0(1)
1,2-DICHLOROETHANE	0 (6)	0 (6)	0 (6)	67 (6)	0 (5)	0 (1)	0 (1)	0(1)
1,1-DICHLOROETHANE	0 (6)	0 (6)	0 (6)	100 (6)	0 (5)	0 (1)	0 (1)	0(1)
DICHLOROBROMOMETHANE	0 (6)	0 (6)	0 (6)	0 (6)	0 (5)	0 (1)	0 (1)	100(1)
PHENOL	0 (6)	17 (6)	0 (6)	83 (6)	80 (5)	0 (1)	0 (1)	0(1)
BENZIDINE	0 (6)	0 (6)	0 (6)	0 (5)	0 (5)	100 (1)	0 (1)	0(1)
ANTIMONY	0 (6)	0 (6)	0 (6)	67 (6)	60 (5)	0 (1)	0 (1)	0(1)
ARSENIC	0 (6)	0 (6)	0 (6)	100 (6)	100 (5)	0 (1)	0 (1)	0(1)
CADMIUM	0 (6)	0 (6)	0 (6)	100 (6)	80 (5)	0 (1)	0 (1)	0(1)
MERCURY	0 (6)	0 (6)	0 (6)	17 (6)	40 (5)	0 (1)	0 (1)	0(1)
SELENIUM	0 (6)	0 (6)	0 (6)	67 (6)	100 (5)	100 (1)	0 (1)	0(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 33

PARAMETER	INFLUENT		PRIMARY EFFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		DIGESTER SUPERNAT		TAP WATER	
TOLUENE	100	(6)	100	(6)	33	(6)	100	(6)	100	(6)	100	(1)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	17	(6)	100	(6)	100	(6)	100	(1)	100	(1)
COPPER	100	(6)	100	(6)	17	(6)	100	(6)	67	(6)	100	(1)	100	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)	100	(1)
ZINC	100	(6)	100	(6)	0	(6)	100	(6)	100	(6)	100	(1)	0	(1)
1,1,1-TRICHLOROETHANE	67	(6)	67	(6)	0	(6)	0	(6)	0	(6)	0	(1)	0	(1)
CHLOROFORM	67	(6)	33	(6)	100	(6)	17	(6)	0	(6)	0	(1)	0	(1)
PHENOL	67	(6)	83	(6)	17	(6)	50	(6)	17	(6)	0	(1)	0	(1)
TETRACHLOROETHYLENE	50	(6)	50	(6)	33	(6)	83	(6)	100	(6)	0	(1)	0	(1)
DI-N-BUTYL PHTHALATE	50	(6)	17	(6)	0	(6)	50	(6)	33	(6)	0	(1)	0	(1)
GAMMA-BHC	50	(6)	67	(6)	83	(6)	0	(6)	0	(6)	0	(1)	0	(1)
ETHYLBENZENE	33	(6)	67	(6)	0	(6)	100	(6)	67	(6)	100	(1)	0	(1)
METHYLENE CHLORIDE	33	(6)	67	(6)	67	(6)	100	(6)	67	(6)	100	(1)	0	(1)
PENTACHLOROPHENOL	33	(6)	17	(6)	33	(6)	100	(6)	100	(6)	0	(1)	0	(1)
BUTYL BENZYL PHTHALATE	33	(6)	0	(6)	0	(6)	100	(6)	17	(6)	0	(1)	0	(1)
BENZENE	17	(6)	17	(6)	0	(6)	100	(6)	100	(6)	0	(1)	0	(1)
TRICHLOROETHYLENE	17	(6)	33	(6)	0	(6)	83	(6)	17	(6)	100	(1)	0	(1)
ALPHA-ENDOSULFAN	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)	0	(1)
HEPTACHLOR	17	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)	0	(1)
CHROMIUM	17	(6)	50	(6)	0	(6)	67	(6)	33	(6)	100	(1)	0	(1)
CHLOROBENZENE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	100	(1)	0	(1)
1,1-DICHLOROETHANE	0	(6)	0	(6)	0	(6)	67	(6)	0	(6)	0	(1)	0	(1)
1,1,2-TRICHLOROETHANE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	100	(1)	0	(1)
1,2-TRANS-DICHLOROETHYLENE	0	(6)	0	(6)	0	(6)	67	(6)	0	(6)	0	(1)	0	(1)
1,4-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	83	(6)	17	(6)	0	(1)	0	(1)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	100	(6)	50	(6)	0	(1)	0	(1)
NAPHTHALENE	0	(6)	0	(6)	0	(6)	50	(6)	17	(6)	0	(1)	0	(1)
DIETHYL PHTHALATE	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)	0	(1)	0	(1)
1,2-BENZANTHRACENE	0	(6)	0	(6)	0	(6)	17	(6)	17	(6)	0	(1)	0	(1)
3,4-BENZOFLUORANTHENE	0	(6)	0	(6)	0	(6)	17	(6)	17	(6)	0	(1)	0	(1)
11,12-BENZOFLUORANTHENE	0	(6)	0	(6)	0	(6)	17	(6)	17	(6)	0	(1)	0	(1)
CHRYSENE	0	(6)	0	(6)	0	(6)	17	(6)	17	(6)	0	(1)	0	(1)
ANTHRACENE	0	(6)	0	(6)	0	(6)	83	(6)	17	(6)	0	(1)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	83	(6)	17	(6)	0	(1)	0	(1)
PYRENE	0	(6)	0	(6)	0	(6)	83	(6)	100	(6)	0	(1)	0	(1)
ALPHA-BHC	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)	0	(1)
BETA-BHC	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)	0	(1)
ANTIMONY	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)	0	(1)
ARSENIC	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(1)	0	(1)
CADMIUM	0	(6)	0	(6)	0	(6)	33	(6)	17	(6)	100	(1)	0	(1)
LEAD	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(1)	0	(1)
MERCURY	0	(6)	0	(6)	0	(6)	50	(6)	0	(6)	100	(1)	0	(1)
NICKEL	0	(6)	0	(6)	0	(6)	100	(6)	17	(6)	100	(1)	0	(1)
SELENIUM	0	(6)	0	(6)	0	(6)	100	(6)	83	(6)	0	(1)	0	(1)
SILVER	0	(6)	0	(6)	0	(6)	83	(6)	83	(6)	100	(1)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 34

PARAMETER	INFLUENT		PRIMARY EFFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		DIGESTER SUPERNAT		TAP WATER	
1,2-TRANS-DICHLOROETHYLENE	100	(6)	100	(6)	0	(6)	100	(6)	33	(6)	0	(1)	0	(1)
METHYLENE CHLORIDE	100	(6)	100	(6)	33	(6)	83	(6)	0	(6)	0	(1)	0	(1)
TETRACHLOROETHYLENE	100	(6)	100	(6)	50	(6)	0	(6)	33	(6)	0	(1)	0	(1)
TOLUENE	100	(6)	100	(6)	17	(6)	100	(6)	83	(6)	100	(1)	0	(1)
TRICHLOROETHYLENE	100	(6)	100	(6)	0	(6)	0	(6)	0	(6)	100	(1)	0	(1)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)	0	(1)
COPPER	100	(6)	100	(6)	83	(6)	100	(6)	100	(6)	100	(1)	100	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)	100	(1)
NICKEL	100	(6)	83	(6)	100	(6)	100	(6)	100	(6)	100	(1)	0	(1)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(1)	100	(1)
1,1,1-TRICHLOROETHANE	83	(6)	67	(6)	0	(6)	0	(6)	0	(6)	0	(1)	0	(1)
PHENOL	83	(6)	83	(6)	0	(6)	33	(6)	100	(6)	0	(1)	0	(1)
MERCURY	83	(6)	67	(6)	33	(6)	17	(6)	17	(6)	100	(1)	0	(1)
LEAD	67	(6)	83	(6)	0	(6)	100	(6)	100	(6)	100	(1)	0	(1)
SILVER	67	(6)	50	(6)	0	(6)	67	(6)	83	(6)	100	(1)	0	(1)
1,1-DICHLOROETHANE	33	(6)	17	(6)	0	(6)	17	(6)	0	(6)	100	(1)	0	(1)
ETHYLBENZENE	33	(6)	100	(6)	0	(6)	100	(6)	0	(6)	100	(1)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	33	(6)	17	(6)	50	(6)	100	(6)	100	(6)	0	(1)	100	(1)
BUTYL BENZYL PHTHALATE	33	(6)	0	(6)	0	(6)	50	(6)	17	(6)	100	(1)	0	(1)
CHLOROFORM	17	(6)	67	(6)	100	(6)	0	(6)	0	(6)	0	(1)	100	(1)
1,4-DICHLOROBENZENE	17	(6)	0	(6)	0	(6)	67	(6)	0	(6)	0	(1)	0	(1)
DIETHYL PHTHALATE	17	(6)	17	(6)	0	(6)	0	(6)	17	(6)	0	(1)	0	(1)
CADMIUM	17	(6)	0	(6)	0	(6)	17	(6)	33	(6)	100	(1)	0	(1)
BENZENE	0	(6)	17	(6)	0	(6)	100	(6)	17	(6)	0	(1)	0	(1)
1,1,2-TRICHLOROETHANE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(1)	0	(1)
CHLOROETHANE	0	(6)	17	(6)	17	(6)	0	(6)	0	(6)	0	(1)	0	(1)
2-CHLOROETHYL VINYL ETHER	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)	100	(1)
DICHLOROBROMOMETHANE	0	(6)	0	(6)	33	(6)	0	(6)	0	(6)	0	(1)	100	(1)
CHLORODIBROMOMETHANE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(1)	100	(1)
VINYL CHLORIDE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	100	(1)	0	(1)
PENTACHLOROPHENOL	0	(5)	0	(5)	0	(5)	0	(6)	17	(6)	0	(1)	0	( )
1,2-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	67	(6)	0	(6)	0	(1)	0	(1)
1,3-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)	0	(1)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	100	(6)	17	(6)	0	(1)	0	(1)
NAPHTHALENE	0	(6)	0	(6)	0	(6)	67	(6)	0	(6)	0	(1)	0	(1)
DI-N-OCTYL PHTHALATE	0	(6)	0	(6)	0	(6)	17	(6)	17	(6)	0	(1)	0	(1)
DIMETHYL PHTHALATE	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)	0	(1)	0	(1)
1,2-BENZANTHRACENE	0	(6)	0	(6)	0	(6)	50	(6)	17	(6)	0	(1)	0	(1)
BENZO (A)PYRENE	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)	0	(1)	0	(1)
3,4-BENZOFLUORANTHENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)	0	(1)
11,12-BENZOFLUORANTHENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)	0	(1)
CHRYSENE	0	(6)	0	(6)	0	(6)	50	(6)	17	(6)	0	(1)	0	(1)
ANTHRACENE	0	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)	0	(1)
FLUORENE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(1)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(1)	0	(1)
PYRENE	0	(6)	0	(6)	0	(6)	100	(6)	17	(6)	0	(1)	0	(1)
GAMMA-BHC	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(1)	0	(1)
ANTIMONY	0	(6)	0	(6)	0	(6)	100	(6)	83	(6)	0	(1)	0	(1)
ARSENIC	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	0	(1)	0	(1)
SELENIUM	0	(6)	0	(6)	0	(6)	33	(6)	50	(6)	0	(1)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 35

PARAMETER	INFLUENT		PRE CL EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE	
BOD	100	(4)	100	(4)	100	(3)	100	(4)
TOTAL SUSP. SOLIDS	100	(4)	100	(4)	100	(1)	100	(3)
COD	100	(4)	100	(4)	100	(3)	100	(4)
OIL & GREASE	100	(4)	100	(4)	100	(3)	100	(4)
TOTAL PHENOLS	100	(4)	100	(4)	100	(3)	100	(4)
TOTAL SOLIDS	100	(4)	100	(4)	100	(3)	100	(4)
TOTAL DISS. SOLIDS	100	(4)	100	(4)	100	(3)	100	(4)
TOTAL VOLATILE SOLIDS	100	(1)	100	(1)	100	(1)	100	(2)
VOLATILE DISS. SOLIDS	100	(4)	100	(4)	100	(3)	100	(4)
TOTAL VOL. SUS. SOLIDS	100	(4)	100	(4)	100	(1)	100	(3)
AMMONIA NITROGEN	100	(4)	100	(4)	100	(3)	100	(4)
TOC	100	(4)	100	(4)	100	(3)	100	(4)
1,1-DICHLOROETHANE	100	(4)	100	(4)	0	(3)	0	(4)
1,2-TRANS-DICHLOROETHYLENE	100	(4)	25	(4)	33	(3)	50	(4)
ETHYLBENZENE	100	(4)	25	(4)	100	(3)	50	(4)
METHYLENE CHLORIDE	100	(4)	100	(4)	33	(3)	50	(4)
TETRACHLOROETHYLENE	100	(4)	0	(4)	0	(3)	0	(4)
TOLUENE	100	(4)	100	(4)	100	(3)	100	(4)
TRICHLOROETHYLENE	100	(4)	25	(4)	67	(3)	50	(4)
PHENOL	100	(4)	0	(4)	0	(3)	0	(4)
CHROMIUM	100	(4)	100	(4)	100	(3)	100	(4)
COPPER	100	(4)	100	(4)	100	(3)	100	(4)
CYANIDE	100	(4)	100	(4)	100	(3)	100	(4)
MERCURY	100	(4)	50	(4)	0	(3)	0	(4)
ZINC	100	(4)	100	(4)	100	(3)	100	(4)
ALUMINUM	100	(4)	100	(4)	0	( )	0	( )
BARIUM	100	(4)	100	(4)	0	( )	0	( )
CALCIUM	100	(4)	100	(4)	0	( )	0	( )
IRON	100	(4)	100	(4)	0	( )	0	( )
MAGNESIUM	100	(4)	100	(4)	0	( )	0	( )
MANGANESE	100	(4)	100	(4)	0	( )	0	( )
SODIUM	100	(4)	100	(4)	0	( )	0	( )
SETTLEABLE SOLIDS	75	(4)	0	(4)	100	(3)	100	(4)
BENZENE	75	(4)	0	(4)	0	(3)	50	(4)
BIS(2-ETHYLHEXYL) PHTHALATE	75	(4)	0	(4)	100	(3)	100	(4)
1,2-DICHLOROETHANE	50	(4)	0	(4)	0	(3)	0	(4)
1,1,1-TRICHLOROETHANE	50	(4)	0	(4)	0	(3)	0	(4)
CHLOROFORM	50	(4)	25	(4)	0	(3)	0	(4)
PENTACHLOROPHENOL	50	(4)	0	(4)	0	(3)	0	(4)
DI-N-BUTYL PHTHALATE	50	(4)	0	(4)	0	(3)	0	(4)
1,2-DICHLOROPROPANE	25	(4)	0	(4)	0	(3)	0	(4)
1,2-DICHLOROBENZENE	25	(4)	0	(4)	100	(3)	25	(4)
BUTYL BENZYL PHTHALATE	25	(4)	0	(4)	67	(3)	0	(4)
DIETHYL PHTHALATE	25	(4)	0	(4)	0	(3)	0	(4)
CADMIUM	25	(4)	25	(4)	100	(3)	75	(4)
LEAD	25	(4)	0	(4)	100	(3)	100	(4)
1,3-DICHLOROBENZENE	0	(4)	0	(4)	100	(3)	25	(4)
FLUORANTHENE	0	(4)	0	(4)	67	(3)	25	(4)
NAPHTHALENE	0	(4)	0	(4)	100	(3)	0	(4)
PYRENE	0	(4)	0	(4)	100	(3)	50	(4)
ANTIMONY	0	(4)	0	(4)	100	(3)	100	(4)
ARSENIC	0	(4)	0	(4)	100	(3)	100	(4)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 35

PARAMETER	INFLUENT		PRE CL EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE	
NICKEL	0	(4)	0	(4)	100	(3)	100	(4)
SELENIUM	0	(4)	0	(4)	0	(3)	50	(4)
SILVER	0	(4)	0	(4)	67	(3)	100	(4)
THALLIUM	0	(4)	0	(4)	0	(3)	25	(4)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 36

PARAMETER	INFL	PRIM EFFL	SEC EFFL	PRIM SLUDGE	SEC SLUDGE	VAC FILT FILTRATE	DIGESTER SUPERNATNT	TAP H2O
BENZENE	100 (6)	100 (6)	100 (5)	50 (6)	83 (6)	0 (1)	100 (1)	0(1)
1,1,1-TRICHLOROETHANE	100 (6)	100 (6)	80 (5)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
CHLOROFORM	100 (6)	100 (6)	100 (5)	67 (6)	100 (6)	0 (1)	0 (1)	100(1)
ETHYLBENZENE	100 (6)	100 (6)	60 (5)	100 (6)	100 (6)	0 (1)	100 (1)	0(1)
METHYLENE CHLORIDE	100 (6)	100 (6)	100 (5)	100 (6)	33 (6)	0 (1)	100 (1)	0(1)
TETRACHLOROETHYLENE	100 (6)	100 (6)	100 (5)	67 (6)	100 (6)	0 (1)	0 (1)	0(1)
TOLUENE	100 (6)	100 (6)	100 (5)	100 (6)	100 (6)	100 (1)	100 (1)	100(1)
TRICHLOROETHYLENE	100 (6)	100 (6)	20 (5)	83 (6)	67 (6)	0 (1)	0 (1)	0(1)
PENTACHLOROPHENOL	100 (6)	83 (6)	67 (6)	0 (6)	0 (6)	100 (1)	0 (1)	0(1)
PHENOL	100 (6)	100 (6)	100 (6)	17 (6)	17 (6)	100 (1)	100 (1)	0(1)
1,2,4-TRICHLOROBENZENE	100 (6)	100 (6)	100 (6)	83 (6)	33 (6)	100 (1)	100 (1)	0(1)
1,2-DICHLOROBENZENE	100 (6)	100 (6)	33 (6)	0 (6)	0 (6)	100 (1)	100 (1)	0(1)
1,4-DICHLOROBENZENE	100 (6)	100 (6)	0 (6)	83 (6)	0 (6)	0 (1)	100 (1)	0(1)
NAPHTHALENE	100 (6)	100 (6)	100 (6)	83 (6)	17 (6)	100 (1)	100 (1)	0(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100 (6)	100 (6)	100 (6)	100 (6)	83 (6)	100 (1)	100 (1)	100(1)
DI-N-BUTYL PHTHALATE	100 (6)	100 (6)	100 (6)	67 (6)	0 (6)	100 (1)	100 (1)	0(1)
DIETHYL PHTHALATE	100 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (1)	100 (1)	0(1)
PHENANTHRENE	100 (6)	100 (6)	17 (6)	67 (6)	17 (6)	0 (1)	100 (1)	0(1)
ANTIMONY	100 (6)	100 (6)	100 (6)	100 (6)	83 (6)	100 (1)	100 (1)	100(1)
ARSENIC	100 (6)	100 (6)	100 (6)	100 (6)	100 (6)	100 (1)	100 (1)	100(1)
CADMIUM	100 (6)	100 (6)	100 (6)	67 (6)	17 (6)	100 (1)	100 (1)	100(1)
CHROMIUM	100 (6)	100 (6)	100 (6)	100 (6)	100 (6)	100 (1)	100 (1)	100(1)
COPPER	100 (6)	100 (6)	83 (6)	100 (6)	100 (6)	100 (1)	100 (1)	100(1)
CYANIDE	100 (6)	100 (6)	100 (6)	100 (6)	100 (6)	100 (1)	0 ( )	100(1)
LEAD	100 (6)	100 (6)	83 (6)	100 (6)	100 (6)	100 (1)	100 (1)	100(1)
NICKEL	100 (6)	100 (6)	100 (6)	100 (6)	100 (6)	100 (1)	100 (1)	100(1)
SELENIUM	100 (6)	100 (6)	100 (6)	17 (6)	83 (6)	100 (1)	100 (1)	100(1)
SILVER	100 (6)	100 (6)	100 (6)	100 (6)	100 (6)	100 (1)	100 (1)	100(1)
THALLIUM	100 (6)	100 (6)	100 (6)	0 (6)	0 (6)	100 (1)	100 (1)	0(1)
ZINC	100 (6)	100 (6)	100 (6)	100 (6)	100 (6)	100 (1)	100 (1)	100(1)
1,2-TRANS-DICHLOROETHYLENE	83 (6)	100 (6)	0 (5)	100 (6)	0 (6)	0 (1)	100 (1)	0(1)
2,4-DICHLOROPHENOL	83 (6)	83 (6)	83 (6)	0 (6)	0 (6)	100 (1)	100 (1)	0(1)
BUTYL BENZYL PHTHALATE	83 (6)	67 (6)	33 (6)	67 (6)	0 (6)	0 (1)	100 (1)	0(1)
CHLOROBENZENE	50 (6)	33 (6)	0 (5)	83 (6)	17 (6)	0 (1)	100 (1)	0(1)
2,4,6-TRICHLOROPHENOL	50 (6)	33 (6)	67 (6)	0 (6)	0 (6)	100 (1)	0 (1)	0(1)
ALPHA-ENDOSULFAN	33 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
GAMMA-BHC	33 (6)	17 (6)	17 (6)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
BERYLLIUM	33 (6)	17 (6)	0 (6)	33 (6)	33 (6)	0 (1)	100 (1)	0(1)
1,1-DICHLOROETHANE	17 (6)	0 (6)	0 (5)	83 (6)	0 (6)	0 (1)	0 (1)	0(1)
1,3-DICHLOROBENZENE	17 (6)	0 (6)	0 (6)	50 (6)	0 (6)	0 (1)	0 (1)	0(1)
FLUORANTHENE	17 (6)	0 (6)	0 (6)	83 (6)	0 (6)	0 (1)	100 (1)	0(1)
ANTHRACENE	17 (6)	0 (6)	0 (6)	67 (6)	17 (6)	0 (1)	0 (1)	0(1)
PYRENE	17 (6)	0 (6)	0 (6)	83 (6)	0 (6)	0 (1)	100 (1)	0(1)
ALPHA-BHC	17 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
MERCURY	17 (6)	0 (6)	0 (6)	33 (6)	67 (6)	0 (1)	100 (1)	100(1)
CHLOROETHANE	0 (6)	0 (6)	0 (5)	0 (6)	0 (6)	0 (1)	100 (1)	0(1)
DICHLOROBROMOMETHANE	0 (6)	0 (6)	0 (5)	17 (6)	0 (6)	0 (1)	0 (1)	100(1)
TRICHLOROFLUOROMETHANE	0 (6)	0 (6)	0 (5)	17 (6)	0 (6)	0 (1)	0 (1)	0(1)
DICHLORODIFLUOROMETHANE	0 (6)	0 (6)	0 (5)	17 (6)	17 (6)	0 (1)	0 (1)	0(1)
CHLORODIBROMOMETHANE	0 (6)	0 (6)	0 (5)	0 (6)	0 (6)	0 (1)	0 (1)	100(1)
VINYL CHLORIDE	0 (6)	0 (6)	0 (5)	0 (6)	0 (6)	0 (1)	100 (1)	0(1)
2,4-DIMETHYLPHENOL	0 (6)	0 (6)	33 (6)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
ACENAPHTHENE	0 (6)	0 (6)	50 (6)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
DI-N-OCTYL PHTHALATE	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (1)	100 (1)	0(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 36

PARAMETER	INFL	PRIM EFFL	SEC EFFL	PRIM SLUDGE	SEC SLUDGE	VAC FILT FILTRATE	DIGESTER SUPERNATNT	TAP H2O
DIMETHYL PHTHALATE	0 (6)	0 (6)	33 (6)	0 (6)	0 (6)	0 (1)	0 (1)	0(1)
1,2-BENZANTHRACENE	0 (6)	0 (6)	0 (.6)	33 (6)	0 (6)	0 (1)	0 (1)	0(1)
CHRYSENE	0 (6)	0 (6)	0 (6)	33 (6)	0 (6)	0 (1)	0 (1)	0(1)
ENDRIN ALDEHYDE	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (1)	100 (1)	0(1)
DELTA-BHC	0 (6)	0 (6)	0 (6)	0 (6)	0 (6)	0 (1)	100 (1)	0(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 37

PARAMETER	INFLUENT		PRIMARY EFFLUENT		PRE CL EFFLUENT		OTHER EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		OTHER SLUDGE	
BENZENE	100	(6)	83	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(6)
1,1,1-TRICHLOROETHANE	100	(6)	100	(6)	100	(6)	83	(6)	100	(6)	100	(6)	50	(6)
CHLOROFORM	100	(6)	83	(6)	100	(6)	0	(6)	100	(6)	100	(6)	17	(6)
ETHYLBENZENE	100	(6)	100	(6)	33	(6)	17	(6)	100	(6)	0	(6)	0	(6)
METHYLENE CHLORIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
TETRACHLOROETHYLENE	100	(6)	100	(6)	100	(6)	83	(6)	67	(6)	67	(6)	67	(6)
TOLUENE	100	(6)	100	(6)	17	(6)	0	(6)	100	(6)	0	(6)	100	(6)
TRICHLOROETHYLENE	100	(6)	100	(6)	100	(6)	17	(6)	100	(6)	100	(6)	33	(6)
CADMIUM	100	(6)	100	(6)	33	(6)	100	(6)	100	(6)	100	(6)	100	(6)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
COPPER	100	(6)	100	(6)	83	(6)	100	(6)	100	(6)	100	(6)	100	(6)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
MERCURY	100	(6)	83	(6)	50	(6)	83	(6)	0	(6)	17	(6)	0	(6)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	67	(6)	100	(6)	33	(6)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
DI-N-BUTYL PHTHALATE	83	(6)	100	(6)	33	(6)	17	(6)	100	(6)	100	(6)	100	(6)
LEAD	83	(6)	17	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(6)
SILVER	83	(6)	83	(6)	0	(6)	50	(6)	83	(6)	100	(6)	100	(6)
1,1-DICHLOROETHYLENE	67	(6)	67	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)
PHENOL	67	(6)	100	(6)	0	(6)	0	(6)	0	(6)	67	(6)	33	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	67	(6)	67	(6)	17	(6)	33	(6)	100	(6)	100	(6)	100	(6)
GAMMA-BHC	67	(6)	67	(6)	100	(6)	67	(6)	0	(6)	0	(6)	0	(6)
1,1-DICHLOROETHANE	50	(6)	100	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(6)
DIETHYL PHTHALATE	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)
1,2-DICHLOROETHANE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)
1,2-TRANS-DICHLOROETHYLENE	17	(6)	17	(6)	0	(6)	0	(6)	67	(6)	0	(6)	0	(6)
DICHLORODIFLUOROMETHANE	17	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)
1,2-DICHLOROBENZENE	17	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)
NAPHTHALENE	17	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)
BUTYL BENZYL PHTHALATE	17	(6)	0	(6)	0	(6)	0	(6)	100	(6)	0	(6)	0	(6)
HEPTACHLOR	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)
CHLOROBENZENE	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	0	(6)	0	(6)	50	(6)	33	(6)	17	(6)
1,2-DICHLOROPROPANE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)
DICHLOROBROMOMETHANE	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)
PENTACHLOROPHENOL	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)
1,3-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)	0	(6)
1,4-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	0	(6)	33	(6)	0	(6)	0	(6)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	0	(6)	50	(6)	33	(6)	33	(6)
BIS(2-CHLOROETHYOXY) METHANE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)
1,2-BENZANTHRACENE	0	(6)	0	(6)	0	(6)	0	(6)	83	(6)	17	(6)	17	(6)
CHRYSENE	0	(6)	0	(6)	0	(6)	0	(6)	83	(6)	17	(6)	17	(6)
ACENAPHTHYLENE	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)	17	(6)
ANTHRACENE	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	50	(6)	33	(6)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	50	(6)	33	(6)
PYRENE	0	(6)	0	(6)	0	(6)	0	(6)	50	(6)	33	(6)	33	(6)
HEPTACHLOR EPOXIDE	0	(6)	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)
ALPHA-BHC	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)
ANTIMONY	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	83	(6)	83	(6)
ARSENIC	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)	100	(6)
SELENIUM	0	(6)	0	(6)	0	(6)	0	(6)	83	(6)	83	(6)	67	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 38

PARAMETER	INFLUENT		PRIMARY EFFLUENT		PRE CL EFFLUENT		TERTIARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE	
BENZENE	100	(6)	100	(6)	50	(6)	50	(6)	100	(6)	33	(6)
1,1,1-TRICHLOROETHANE	100	(6)	100	(6)	67	(6)	50	(6)	83	(6)	0	(6)
CHLOROFORM	100	(6)	100	(6)	83	(6)	100	(6)	100	(6)	33	(6)
ETHYLBENZENE	100	(6)	100	(6)	50	(6)	50	(6)	100	(6)	17	(6)
METHYLENE CHLORIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
TETRACHLOROETHYLENE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
TOLUENE	100	(6)	100	(6)	67	(6)	83	(6)	100	(6)	50	(6)
TRICHLOROETHYLENE	100	(6)	100	(6)	67	(6)	33	(6)	100	(6)	50	(6)
PHENOL	100	(6)	100	(6)	0	(6)	0	(6)	33	(6)	33	(6)
NAPHTHALENE	100	(6)	67	(6)	0	(6)	17	(6)	83	(6)	0	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	83	(6)	67	(6)	50	(6)	100	(6)	100	(6)
CADMIUM	100	(6)	100	(6)	0	(6)	0	(6)	100	(6)	100	(6)
CHROMIUM	100	(6)	100	(6)	100	(6)	83	(6)	100	(6)	100	(6)
COPPER	100	(6)	100	(6)	83	(6)	83	(6)	100	(6)	100	(6)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
LEAD	100	(6)	67	(6)	0	(6)	0	(6)	100	(6)	100	(6)
MERCURY	100	(6)	100	(6)	0	(6)	17	(6)	33	(6)	33	(6)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	33	(6)	50	(6)
SILVER	100	(6)	67	(6)	0	(6)	17	(6)	83	(6)	67	(6)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
1,2-TRANS-DICHLOROETHYLENE	83	(6)	100	(6)	17	(6)	0	(6)	100	(6)	0	(6)
BUTYL BENZYL PHTHALATE	83	(6)	83	(6)	17	(6)	33	(6)	100	(6)	0	(6)
DI-N-BUTYL PHTHALATE	83	(6)	83	(6)	0	(6)	0	(6)	83	(6)	50	(6)
1,1-DICHLOROETHANE	67	(6)	83	(6)	0	(6)	0	(6)	0	(6)	0	(6)
DIETHYL PHTHALATE	67	(6)	83	(6)	0	(6)	0	(6)	17	(6)	33	(6)
1,1,2,2-TETRACHLOROETHANE	50	(6)	17	(6)	17	(6)	0	(6)	0	(6)	0	(6)
1,1-DICHLOROETHYLENE	50	(6)	50	(6)	0	(6)	0	(6)	0	(6)	0	(6)
2,4-DIMETHYLPHENOL	50	(6)	50	(6)	0	(6)	17	(6)	0	(6)	0	(6)
GAMMA-BHC	33	(6)	67	(6)	50	(6)	33	(6)	0	(6)	0	(6)
METHYL CHLORIDE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)	0	(6)
CARBON TETRACHLORIDE	0	(6)	0	(6)	17	(6)	0	(6)	17	(6)	0	(6)
CHLOROBENZENE	0	(6)	17	(6)	0	(6)	0	(6)	17	(6)	17	(6)
1,2-DICHLOROETHANE	0	(6)	17	(6)	33	(6)	17	(6)	0	(6)	0	(6)
PENTACHLOROPHENOL	0	(6)	33	(6)	17	(6)	17	(6)	17	(6)	0	(6)
1,2-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	0	(6)	67	(6)	0	(6)
1,3-DICHLOROBENZENE	0	(6)	17	(6)	0	(6)	0	(6)	50	(6)	0	(6)
1,4-DICHLOROBENZENE	0	(6)	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)
2,4-DINITROTOLUENE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)
1,2-DIPHENYLHYDRAZINE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	0	(6)	50	(6)	17	(6)
NITROBENZENE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)
ANTHRACENE	0	(6)	0	(6)	0	(6)	0	(6)	83	(6)	50	(6)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	0	(6)	83	(6)	67	(6)
PYRENE	0	(6)	0	(6)	0	(6)	0	(6)	50	(6)	17	(6)
4,4'-DDD	0	(6)	17	(6)	17	(6)	0	(6)	0	(6)	0	(6)
HEPTACHLOR EPOXIDE	0	(6)	0	(6)	33	(6)	17	(6)	0	(6)	0	(6)
ALPHA-BHC	0	(6)	17	(6)	17	(6)	0	(6)	0	(6)	0	(6)
ANTIMONY	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)
ARSENIC	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)
SELENIUM	0	(6)	0	(6)	0	(6)	0	(6)	100	(6)	100	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 39

PARAMETER	INFLUENT		PRIMARY EFFLUENT		SECONDARY EFFLUENT		OTHER EFFLUENT		COMBINED SLUDGE		SECONDARY SLUDGE		TAP WATER	
BENZENE	100	(6)	100	(5)	0	(6)	0	(5)	50	(6)	0	(2)	0	(1)
METHYLENE CHLORIDE	100	(6)	100	(5)	100	(6)	80	(5)	83	(6)	100	(2)	0	(1)
TETRACHLOROETHYLENE	100	(6)	100	(5)	100	(6)	100	(5)	17	(6)	50	(2)	0	(1)
TOLUENE	100	(6)	100	(5)	100	(6)	40	(5)	100	(6)	100	(2)	0	(1)
COPPER	100	(6)	100	(5)	100	(6)	100	(5)	100	(6)	100	(2)	100	(1)
CYANIDE	100	(6)	100	(5)	100	(5)	100	(5)	100	(6)	100	(2)	100	(1)
MERCURY	100	(6)	100	(5)	67	(6)	0	(5)	83	(6)	0	(2)	0	(1)
ZINC	100	(6)	100	(5)	100	(6)	20	(5)	100	(6)	100	(2)	100	(1)
1,1,1-TRICHLOROETHANE	83	(6)	100	(5)	0	(6)	0	(5)	0	(6)	0	(2)	0	(1)
CHLOROFORM	83	(6)	100	(5)	100	(6)	40	(5)	17	(6)	100	(2)	100	(1)
ETHYLBENZENE	83	(6)	20	(5)	0	(6)	20	(5)	67	(6)	0	(2)	0	(1)
TRICHLOROETHYLENE	83	(6)	100	(5)	33	(6)	20	(5)	100	(6)	100	(2)	0	(1)
PHENOL	83	(6)	40	(5)	0	(6)	0	(5)	0	(6)	0	(2)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	83	(6)	80	(5)	100	(6)	60	(5)	100	(6)	100	(2)	0	(1)
CHROMIUM	83	(6)	60	(5)	67	(6)	0	(5)	100	(6)	0	(2)	0	(1)
BUTYL BENZYL PHTHALATE	67	(6)	60	(5)	0	(6)	0	(5)	50	(6)	50	(2)	0	(1)
DI-N-BUTYL PHTHALATE	67	(6)	80	(5)	50	(6)	0	(5)	17	(6)	50	(2)	0	(1)
DIETHYL PHTHALATE	67	(6)	80	(5)	50	(6)	0	(5)	0	(6)	0	(2)	0	(1)
CHLOROBENZENE	50	(6)	0	(5)	0	(6)	0	(5)	0	(6)	0	(2)	0	(1)
1,2-TRANS-DICHLOROETHYLENE	50	(6)	40	(5)	0	(6)	0	(5)	100	(6)	0	(2)	0	(1)
1,3-DICHLOROPROPYLENE	50	(6)	0	(5)	0	(6)	0	(5)	0	(6)	0	(2)	0	(1)
SILVER	50	(6)	20	(5)	50	(6)	0	(5)	100	(6)	50	(2)	0	(1)
NAPHTHALENE	33	(6)	20	(5)	17	(6)	0	(5)	17	(6)	0	(2)	0	(1)
LEAD	33	(6)	0	(5)	17	(6)	0	(5)	100	(6)	50	(2)	0	(1)
NICKEL	33	(6)	20	(5)	0	(6)	0	(5)	50	(6)	0	(2)	0	(1)
CARBON TETRACHLORIDE	17	(6)	0	(5)	0	(6)	0	(5)	0	(6)	0	(2)	0	(1)
1,2-DICHLOROETHANE	17	(6)	0	(5)	0	(6)	0	(5)	0	(6)	0	(2)	0	(1)
CADMIUM	17	(6)	0	(5)	33	(6)	0	(5)	100	(6)	50	(2)	0	(1)
1,1-DICHLOROETHANE	0	(6)	0	(5)	0	(6)	0	(5)	17	(6)	0	(2)	0	(1)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(5)	0	(6)	0	(5)	0	(6)	50	(2)	0	(1)
CHLORODIBROMOMETHANE	0	(6)	0	(5)	0	(6)	0	(5)	0	(6)	0	(2)	100	(1)
ACENAPHTHENE	0	(6)	0	(5)	0	(6)	0	(5)	0	(6)	50	(2)	0	(1)
1,2-DICHLOROBENZENE	0	(6)	20	(5)	0	(6)	0	(5)	0	(6)	0	(2)	0	(1)
3,3'-DICHLOROBENZIDINE	0	(6)	20	(5)	0	(6)	0	(5)	0	(6)	0	(2)	0	(1)
FLUORANTHENE	0	(6)	0	(5)	0	(6)	0	(5)	0	(6)	50	(2)	0	(1)
NITROBENZENE	0	(6)	20	(5)	0	(6)	0	(5)	0	(6)	0	(2)	0	(1)
1,2-BENZANTHRACENE	0	(6)	0	(5)	0	(6)	0	(5)	0	(6)	50	(2)	0	(1)
CHRYSENE	0	(6)	0	(5)	0	(6)	0	(5)	0	(6)	50	(2)	0	(1)
ANTHRACENE	0	(6)	0	(5)	0	(6)	0	(5)	33	(6)	50	(2)	0	(1)
FLUORENE	0	(6)	0	(5)	0	(6)	0	(5)	0	(6)	50	(2)	0	(1)
PHENANTHRENE	0	(6)	0	(5)	0	(6)	0	(5)	33	(6)	50	(2)	0	(1)
PYRENE	0	(6)	0	(5)	0	(6)	0	(5)	0	(6)	50	(2)	0	(1)
ANTIMONY	0	(6)	0	(5)	0	(6)	0	(5)	100	(6)	50	(2)	0	(1)
ARSENIC	0	(6)	0	(5)	0	(6)	0	(5)	100	(6)	50	(2)	0	(1)
SELENIUM	0	(6)	0	(5)	0	(6)	0	(5)	83	(6)	50	(2)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 40

PARAMETER	INFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE		SECONDARY SLUDGE		OTHER SOURCE		OTHER RECYCLE		TAP WATER	
1,1,1-TRICHLOROETHANE	100	(6)	33	(6)	0	(6)	0	(2)	0	(1)	0	(1)	0	(1)
CHLOROFORM	100	(6)	100	(6)	67	(6)	0	(2)	0	(1)	0	(1)	0	(1)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	50	(6)	100	(6)	0	(2)	0	(1)	0	(1)	0	(1)
ETHYLBENZENE	100	(6)	17	(6)	83	(6)	0	(2)	0	(1)	0	(1)	0	(1)
METHYLENE CHLORIDE	100	(6)	17	(6)	100	(6)	50	(2)	0	(1)	0	(1)	0	(1)
TETRACHLOROETHYLENE	100	(6)	33	(6)	33	(6)	0	(2)	0	(1)	0	(1)	0	(1)
TOLUENE	100	(6)	67	(6)	100	(6)	100	(2)	0	(1)	0	(1)	0	(1)
TRICHLOROETHYLENE	100	(6)	17	(6)	100	(6)	0	(2)	0	(1)	0	(1)	0	(1)
PHENOL	100	(6)	33	(6)	33	(6)	0	(2)	0	(1)	0	(1)	0	(1)
1,2,4-TRICHLOROBENZENE	100	(6)	17	(6)	100	(6)	0	(2)	0	(1)	0	(1)	0	(1)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	83	(6)	100	(6)	50	(2)	0	(1)	0	(1)	0	(1)
CHROMIUM	100	(6)	100	(6)	100	(6)	50	(2)	100	(1)	100	(1)	0	(1)
COPPER	100	(6)	100	(6)	100	(6)	50	(2)	100	(1)	100	(1)	100	(1)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(2)	100	(1)	100	(1)	100	(1)
MERCURY	100	(6)	100	(6)	50	(6)	0	(2)	100	(1)	100	(1)	0	(1)
ZINC	100	(6)	100	(6)	100	(6)	100	(2)	100	(1)	100	(1)	0	(1)
NICKEL	83	(6)	83	(6)	67	(6)	50	(2)	100	(1)	100	(1)	0	(1)
PENTACHLOROPHENOL	67	(6)	67	(6)	0	(6)	0	(2)	0	(1)	0	(1)	0	(1)
1,1-DICHLOROETHYLENE	50	(6)	0	(6)	0	(6)	0	(2)	0	(1)	0	(1)	0	(1)
BUTYL BENZYL PHTHALATE	33	(6)	0	(6)	100	(6)	0	(2)	0	(1)	0	(1)	0	(1)
TRICHLOROFLUOROMETHANE	17	(6)	17	(6)	0	(6)	0	(2)	0	(1)	0	(1)	0	(1)
DI-N-BUTYL PHTHALATE	17	(6)	17	(6)	67	(6)	50	(2)	0	(1)	0	(1)	0	(1)
CADMIUM	17	(6)	0	(6)	100	(6)	50	(2)	0	(1)	100	(1)	0	(1)
SILVER	17	(6)	0	(6)	100	(6)	0	(2)	0	(1)	0	(1)	0	(1)
CARBON TETRACHLORIDE	0	(6)	67	(6)	0	(6)	0	(2)	0	(1)	0	(1)	0	(1)
BROMOFORM	0	(6)	0	(6)	0	(6)	0	(2)	0	(1)	0	(1)	100	(1)
1,3-DICHLOROBENZENE	0	(6)	0	(6)	17	(6)	0	(2)	0	(1)	0	(1)	0	(1)
FLUORANTHENE	0	(6)	0	(6)	67	(6)	0	(2)	0	(1)	0	(1)	0	(1)
1,2-BENZANTHRACENE	0	(6)	0	(6)	100	(6)	0	(2)	0	(1)	0	(1)	0	(1)
CHRYSENE	0	(6)	0	(6)	100	(6)	0	(2)	0	(1)	0	(1)	0	(1)
ANTHRACENE	0	(6)	0	(6)	67	(6)	0	(2)	0	(1)	0	(1)	0	(1)
PHENANTHRENE	0	(6)	0	(6)	67	(6)	0	(2)	0	(1)	0	(1)	0	(1)
PYRENE	0	(6)	0	(6)	67	(6)	0	(2)	0	(1)	0	(1)	0	(1)
HEPTACHLOR EPOXIDE	0	(6)	17	(6)	0	(6)	0	(2)	0	(1)	0	(1)	0	(1)
ANTIMONY	0	(6)	0	(6)	83	(6)	0	(2)	0	(1)	0	(1)	0	(1)
ARSENIC	0	(6)	0	(6)	100	(6)	100	(2)	0	(1)	0	(1)	0	(1)
LEAD	0	(6)	0	(6)	100	(6)	50	(2)	0	(1)	100	(1)	0	(1)
SELENIUM	0	(6)	0	(6)	100	(6)	50	(2)	0	(1)	0	(1)	0	(1)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 51

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		COMBINED SOURCES	
BENZENE	100	(6)	0	(6)	0	( )	0	( )	100	(6)
CHLOROETHANE	100	(6)	100	(6)	0	( )	0	( )	33	(6)
CHLOROFORM	100	(6)	100	(6)	0	( )	0	( )	50	(6)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	0	(6)	0	( )	0	( )	33	(6)
ETHYLBENZENE	100	(6)	17	(6)	0	( )	0	( )	83	(6)
METHYLENE CHLORIDE	100	(6)	83	(6)	0	( )	0	( )	100	(6)
TOLUENE	100	(6)	0	(6)	0	( )	0	( )	100	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	0	( )	0	( )	100	(6)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
LEAD	100	(6)	33	(6)	100	(6)	100	(6)	100	(6)
MERCURY	100	(6)	0	(6)	100	(6)	100	(6)	100	(6)
NICKEL	100	(6)	50	(6)	100	(6)	100	(6)	100	(6)
SILVER	100	(6)	83	(6)	100	(6)	100	(6)	100	(6)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
1,1,1-TRICHLOROETHANE	83	(6)	0	(6)	0	( )	0	( )	0	(6)
DI-N-OCTYL PHTHALATE	83	(6)	100	(6)	0	( )	0	( )	50	(6)
TETRACHLOROETHYLENE	67	(6)	0	(6)	0	( )	0	( )	0	(6)
TRICHLOROETHYLENE	67	(6)	0	(6)	0	( )	0	( )	0	(6)
DI-N-BUTYL PHTHALATE	50	(6)	67	(6)	0	( )	0	( )	100	(6)
DIETHYL PHTHALATE	50	(6)	17	(6)	0	( )	0	( )	17	(6)
ARSENIC	50	(6)	17	(6)	100	(6)	100	(6)	100	(6)
BUTYL BENZYL PHTHALATE	33	(6)	17	(6)	0	( )	0	( )	50	(6)
ANTIMONY	33	(6)	0	(6)	100	(6)	33	(6)	17	(6)
THALLIUM	33	(6)	0	(6)	0	(5)	0	(6)	0	(6)
DIMETHYL PHTHALATE	17	(6)	0	(6)	0	( )	0	( )	50	(6)
CADMIUM	17	(6)	0	(6)	83	(6)	33	(6)	83	(6)
CYANIDE	17	(6)	17	(6)	50	(6)	67	(6)	50	(6)
SELENIUM	17	(6)	0	(6)	67	(6)	50	(6)	0	(6)
ACROLEIN	0	(6)	0	(6)	0	( )	0	( )	100	(6)
1,1-DICHLOROETHANE	0	(6)	0	(6)	0	( )	0	( )	17	(6)
2-CHLOROPHENOL	0	(6)	0	(6)	0	( )	0	( )	17	(6)
PHENOL	0	(6)	0	(6)	0	( )	0	( )	17	(6)
ACENAPHTHYLENE	0	(6)	0	(6)	0	( )	0	( )	17	(6)
BERYLLIUM	0	(6)	0	(6)	100	(6)	100	(6)	33	(6)

POLLUTANTS NOT LISTED HERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 52

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		OTHER INFLUENT	
BOD	100	(6)	100	(6)	100	(5)	100	(1)
TOTAL SUSP. SOLIDS	100	(6)	100	(6)	100	(5)	100	(2)
COD	100	(6)	100	(6)	100	(5)	100	(2)
OIL & GREASE	100	(6)	0	(6)	100	(5)	100	(2)
TOTAL PHENOLS	100	(6)	100	(6)	100	(5)	100	(2)
TOTAL SOLIDS	100	(6)	100	(6)	100	(5)	100	(2)
TOTAL DISS. SOLIDS	100	(6)	100	(6)	100	(5)	100	(2)
TOTAL VOLATILE SOLIDS	100	(6)	100	(6)	100	(5)	100	(2)
AMMONIA NITROGEN	100	(6)	100	(6)	100	(5)	0	( )
TOC	100	(6)	100	(6)	100	(5)	0	( )
TETRACHLOROETHYLENE	100	(6)	0	(6)	100	(2)	0	(2)
TOLUENE	100	(6)	83	(6)	100	(2)	100	(2)
PHENOL	100	(6)	17	(6)	0	(2)	100	(2)
ACENAPHTHENE	100	(6)	100	(6)	100	(2)	100	(2)
FLUORANTHENE	100	(6)	100	(6)	100	(2)	100	(2)
DI-N-BUTYL PHTHALATE	100	(6)	83	(6)	0	(2)	0	(2)
ANTHRACENE	100	(6)	17	(6)	100	(2)	100	(2)
FLUORENE	100	(6)	17	(6)	100	(2)	100	(2)
PHENANTHRENE	100	(6)	17	(6)	100	(2)	50	(2)
PYRENE	100	(6)	100	(6)	100	(2)	0	(2)
COPPER	100	(6)	83	(6)	100	(5)	100	(2)
SILVER	100	(6)	100	(6)	100	(5)	100	(2)
ZINC	100	(6)	100	(6)	100	(5)	100	(2)
ALUMINUM	100	(6)	100	(6)	100	(5)	100	(2)
BARIUM	100	(6)	100	(6)	100	(5)	100	(2)
CALCIUM	100	(6)	100	(6)	100	(5)	100	(2)
IRON	100	(6)	100	(6)	100	(5)	100	(2)
MAGNESIUM	100	(6)	100	(6)	100	(5)	100	(2)
MANGANESE	100	(6)	100	(6)	100	(5)	100	(2)
SODIUM	100	(6)	100	(6)	100	(5)	100	(2)
2,4-DIMETHYLPHENOL	83	(6)	17	(6)	0	(2)	100	(2)
BIS(2-ETHYLHEXYL) PHTHALATE	83	(6)	83	(6)	100	(2)	0	(2)
DIETHYL PHTHALATE	83	(6)	67	(6)	0	(2)	0	(2)
BIS(2-CHLOROETHYOXY) METHANE	67	(6)	0	(6)	0	(2)	0	(2)
1,2-BENZANTHRACENE	67	(6)	0	(6)	100	(2)	50	(2)
CHRYSENE	67	(6)	0	(6)	100	(2)	50	(2)
MERCURY	67	(6)	0	(6)	100	(5)	100	(2)
NICKEL	67	(6)	67	(6)	100	(5)	100	(2)
TITANIUM	67	(6)	33	(6)	100	(5)	100	(2)
CHLOROBENZENE	50	(6)	17	(6)	100	(2)	0	(2)
TRICHLOROETHYLENE	50	(6)	33	(6)	100	(2)	0	(2)
2,4,6-TRICHLOROPHENOL	50	(6)	0	(6)	0	(2)	100	(2)
BORON	50	(6)	83	(6)	0	(5)	100	(2)
BENZENE	33	(6)	17	(6)	100	(2)	50	(2)
CHLOROFORM	33	(6)	17	(6)	0	(2)	0	(2)
METHYLENE CHLORIDE	33	(6)	0	(6)	50	(2)	100	(2)
NAPHTHALENE	33	(6)	0	(6)	100	(2)	100	(2)
ARSENIC	33	(6)	50	(6)	100	(5)	100	(2)
CHROMIUM	33	(6)	17	(6)	100	(5)	100	(2)
SELENIUM	33	(6)	17	(6)	80	(5)	0	(2)
THALLIUM	33	(6)	17	(6)	40	(5)	0	(2)
1,1,1-TRICHLOROETHANE	17	(6)	0	(6)	0	(2)	0	(2)
1,1-DICHLOROETHYLENE	17	(6)	0	(6)	0	(2)	0	(2)
2,4-DINITROPHENOL	17	(6)	0	(6)	0	(2)	0	(2)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 52

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		OTHER INFLUENT	
PENTACHLOROPHENOL	17	(6)	0	(6)	0	(2)	100	(2)
1,2-DICHLOROBENZENE	17	(6)	0	(6)	0	(2)	0	(2)
2,4-DINITROTOLUENE	17	(6)	17	(6)	0	(2)	0	(2)
ISOPHORONE	17	(6)	0	(6)	0	(2)	0	(2)
DI-N-OCTYL PHTHALATE	17	(6)	0	(6)	0	(2)	0	(2)
ACENAPHTHYLENE	17	(6)	0	(6)	0	(2)	0	(2)
COBALT	17	(6)	33	(6)	60	(5)	100	(2)
TIN	17	(6)	0	(6)	100	(5)	100	(2)
VANADIUM	17	(6)	0	(6)	100	(5)	100	(2)
VOLATILE DISS. SOLIDS	0	( )	0	( )	0	( )	100	(2)
1,1-DICHLOROETHANE	0	(6)	0	(6)	50	(2)	0	(2)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	50	(2)	0	(2)
ETHYLBENZENE	0	(6)	0	(6)	100	(2)	100	(2)
TRICHLOROFLUOROMETHANE	0	(6)	0	(6)	100	(2)	0	(2)
2-NITROPHENOL	0	(6)	0	(6)	0	(2)	50	(2)
1,3-DICHLOROBENZENE	0	(6)	0	(6)	100	(2)	0	(2)
1,4-DICHLOROBENZENE	0	(6)	0	(6)	100	(2)	0	(2)
BUTYL BENZYL PHTHALATE	0	(6)	0	(6)	50	(2)	0	(2)
3,4-BENZOFLUORANTHENE	0	(6)	0	(6)	0	(2)	100	(2)
11,12-BENZOFLUORANTHENE	0	(6)	0	(6)	100	(2)	100	(2)
1,12-BENZOPERYLENE	0	(6)	0	(6)	0	(2)	100	(2)
1,2:5,6-DIBENZANTHRACENE	0	(6)	0	(6)	0	(2)	100	(2)
INDENO(1,2,3-C,D) PYRENE	0	(6)	0	(6)	0	(2)	50	(2)
ANTIMONY	0	(6)	17	(6)	80	(5)	0	(2)
BERYLLIUM	0	(6)	0	(6)	100	(5)	100	(2)
CADMIUM	0	(6)	0	(6)	20	(5)	100	(2)
CYANIDE	0	(6)	0	(6)	40	(5)	0	(2)
LEAD	0	(6)	0	(6)	100	(5)	100	(2)
MOLYBDENUM	0	(6)	0	(6)	100	(5)	100	(2)
YTTRIUM	0	(6)	0	(6)	100	(5)	100	(2)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 53

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		INTERMEDIATE EFFLUENT	
METHYLENE CHLORIDE	100	(6)	100	(6)	67	(6)	33	(6)	100	(6)
PHENOL	100	(6)	100	(6)	67	(6)	50	(6)	100	(6)
ACENAPHTHENE	100	(6)	17	(6)	0	(6)	0	(6)	100	(6)
1,2,4-TRICHLOROBENZENE	100	(6)	83	(6)	83	(6)	0	(6)	100	(6)
NAPHTHALENE	100	(6)	0	(6)	83	(6)	0	(6)	83	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
DI-N-BUTYL PHTHALATE	100	(6)	100	(6)	0	(6)	17	(6)	100	(6)
DIETHYL PHTHALATE	100	(6)	100	(6)	0	(6)	17	(6)	83	(6)
ANTIMONY	100	(6)	100	(6)	100	(6)	67	(6)	100	(6)
ARSENIC	100	(6)	100	(6)	100	(6)	83	(6)	100	(6)
CHROMIUM	100	(6)	83	(6)	100	(6)	100	(6)	100	(6)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
SILVER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
1,1,1-TRICHLOROETHANE	83	(6)	17	(6)	17	(6)	0	(6)	67	(6)
CHLOROFORM	83	(6)	100	(6)	0	(6)	0	(6)	83	(6)
1,2-TRANS-DICHLOROETHYLENE	83	(6)	0	(6)	83	(6)	67	(6)	67	(6)
TETRACHLOROETHYLENE	83	(6)	0	(6)	17	(6)	100	(6)	67	(6)
TOLUENE	67	(6)	67	(6)	100	(6)	100	(6)	50	(6)
ETHYLBENZENE	50	(6)	0	(6)	83	(6)	67	(6)	33	(6)
TRICHLOROETHYLENE	50	(6)	0	(6)	67	(6)	100	(6)	67	(6)
1,2-DICHLOROBENZENE	50	(6)	0	(6)	17	(6)	0	(6)	100	(6)
NITROBENZENE	50	(6)	0	(6)	0	(6)	0	(6)	17	(6)
LEAD	50	(6)	0	(6)	100	(6)	100	(6)	33	(6)
MERCURY	50	(6)	17	(6)	100	(6)	100	(6)	50	(6)
CYANIDE	40	(5)	100	(6)	100	(6)	100	(5)	83	(6)
1,1-DICHLOROETHYLENE	33	(6)	0	(6)	0	(6)	0	(6)	0	(6)
CADMIUM	33	(6)	0	(6)	100	(6)	100	(6)	33	(6)
CHLOROETHANE	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)
1,2-DICHLOROPROPANE	17	(6)	0	(6)	50	(6)	83	(6)	0	(6)
2-CHLOROPHENOL	17	(6)	0	(6)	0	(6)	0	(6)	0	(6)
PENTACHLOROPHENOL	17	(6)	0	(6)	0	(6)	0	(6)	17	(6)
1,4-DICHLOROBENZENE	17	(6)	0	(6)	100	(6)	0	(6)	17	(6)
DIMETHYL PHTHALATE	17	(6)	0	(6)	0	(6)	0	(6)	17	(6)
ACRYLONITRILE	0	(6)	0	(6)	17	(6)	17	(6)	0	(6)
BENZENE	0	(6)	0	(6)	100	(6)	50	(6)	67	(6)
CHLOROBENZENE	0	(6)	0	(6)	100	(6)	100	(6)	67	(6)
1,1-DICHLOROETHANE	0	(6)	0	(6)	67	(6)	33	(6)	0	(6)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	50	(6)	0	(6)	0	(6)
METHYL CHLORIDE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)
TRICHLOROFLUOROMETHANE	0	(6)	0	(6)	33	(6)	17	(6)	0	(6)
4,6-DINITRO-O-CRESOL	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)
FLUORANTHENE	0	(6)	0	(6)	50	(6)	0	(6)	0	(6)
4-CHLOROPHENYL PHENYL ETHER	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)
BUTYL BENZYL PHTHALATE	0	(6)	17	(6)	0	(6)	0	(6)	0	(6)
ACENAPHTHYLENE	0	(6)	0	(6)	0	(6)	0	(6)	17	(6)
ANTHRACENE	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)
FLUORENE	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)
PHENANTHRENE	0	(6)	0	(6)	17	(6)	0	(6)	0	(6)
INDENO(1,2,3-C,D) PYRENE	0	(6)	17	(6)	0	(6)	0	(6)	17	(6)
PYRENE	0	(6)	0	(6)	50	(6)	0	(6)	0	(6)
BERYLLIUM	0	(6)	0	(6)	100	(6)	100	(6)	0	(6)
SELENIUM	0	(6)	17	(6)	100	(6)	50	(6)	0	(6)

POLLUTANTS NOT LISTED HERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 54

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE		OTHER INFLUENT	
1,1,1-TRICHLOROETHANE	100	(6)	83	(6)	0	(6)	0	(6)	20	(5)
CHLOROFORM	100	(6)	100	(6)	50	(6)	33	(6)	0	(5)
METHYLENE CHLORIDE	100	(6)	100	(6)	33	(6)	0	(6)	100	(5)
TETRACHLOROETHYLENE	100	(6)	17	(6)	100	(6)	100	(6)	0	(5)
TOLUENE	100	(6)	33	(6)	100	(6)	100	(6)	100	(5)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	100	(6)	100	(5)
DI-N-BUTYL PHTHALATE	100	(6)	100	(6)	33	(6)	50	(6)	100	(5)
CHROMIUM	100	(6)	33	(6)	100	(6)	50	(6)	100	(6)
COPPER	100	(6)	33	(6)	100	(6)	100	(6)	100	(6)
LEAD	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
SILVER	100	(6)	17	(6)	100	(6)	100	(6)	0	(6)
ZINC	100	(6)	50	(6)	100	(5)	100	(6)	100	(6)
2,4-DICHLOROPHENOL	67	(6)	50	(6)	67	(6)	0	(6)	40	(5)
MERCURY	67	(6)	0	(6)	100	(6)	100	(6)	0	(6)
SELENIUM	67	(6)	83	(6)	100	(6)	67	(6)	50	(6)
DIETHYL PHTHALATE	50	(6)	0	(6)	0	(6)	0	(6)	80	(5)
CARBON TETRACHLORIDE	33	(6)	0	(6)	0	(6)	0	(6)	0	(5)
PHENOL	33	(6)	0	(6)	83	(6)	17	(6)	100	(5)
BIS(2-CHLOROETHYOXY) METHANE	33	(6)	0	(6)	0	(6)	0	(6)	0	(5)
ANTIMONY	33	(6)	83	(6)	100	(6)	100	(6)	67	(6)
CADMIUM	33	(6)	33	(6)	100	(6)	67	(6)	100	(6)
NICKEL	33	(6)	33	(6)	100	(5)	83	(6)	100	(6)
BENZENE	17	(6)	0	(6)	17	(6)	17	(6)	60	(5)
1,1-DICHLOROETHYLENE	17	(6)	0	(6)	0	(6)	0	(6)	0	(5)
1,2-TRANS-DICHLOROETHYLENE	17	(6)	0	(6)	0	(6)	0	(6)	0	(5)
TRICHLOROETHYLENE	17	(6)	0	(6)	100	(6)	83	(6)	0	(5)
BIS(2-CHLOROETHYL) ETHER	17	(6)	0	(6)	0	(6)	0	(6)	0	(5)
ARSENIC	17	(6)	0	(6)	67	(6)	50	(6)	100	(6)
CYANIDE	17	(6)	100	(6)	100	(6)	0	(6)	50	(6)
CHLOROBENZENE	0	(6)	0	(6)	17	(6)	0	(6)	0	(5)
1,1-DICHLOROETHANE	0	(6)	0	(6)	17	(6)	0	(6)	0	(5)
ETHYLBENZENE	0	(6)	0	(6)	83	(6)	17	(6)	0	(5)
METHYL CHLORIDE	0	(6)	0	(6)	17	(6)	33	(6)	0	(5)
DICHLORODIFLUOROMETHANE	0	(6)	0	(6)	0	(6)	17	(6)	0	(5)
2-CHLOROPHENOL	0	(6)	0	(6)	0	(6)	0	(6)	40	(5)
HEXACHLOROBENZENE	0	(6)	0	(6)	33	(6)	17	(6)	0	(5)
1,2-DIPHENYLHYDRAZINE	0	(6)	50	(6)	0	(6)	0	(6)	0	(5)
FLUORANTHENE	0	(6)	0	(6)	83	(6)	17	(6)	0	(5)
BUTYL BENZYL PHTHALATE	0	(6)	50	(6)	33	(6)	0	(6)	60	(5)
DIMETHYL PHTHALATE	0	(6)	0	(6)	0	(6)	0	(6)	60	(5)
PYRENE	0	(6)	0	(6)	83	(6)	0	(6)	0	(5)
BERYLLIUM	0	(6)	0	(6)	50	(6)	0	(6)	0	(6)
THALLIUM	0	(6)	0	(6)	0	(6)	0	(6)	33	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 55

PARAMETER	INFLUENT		SECONDARY EFFLUENT		TERTIARY EFFLUENT		OTHER INFLUENT	
BOD	100	(6)	17	(6)	0	(6)	0	( )
TOTAL SUSP. SOLIDS	100	(6)	100	(5)	100	(6)	0	( )
COD	100	(6)	100	(6)	67	(6)	100	(2)
OIL & GREASE	100	(6)	100	(6)	100	(6)	0	( )
TOTAL PHENOLS	100	(6)	50	(6)	100	(6)	0	( )
TOTAL VOL. SUS. SOLIDS	100	(6)	100	(5)	100	(6)	0	( )
AMMONIA NITROGEN	100	(6)	67	(6)	50	(6)	0	( )
TOC	100	(6)	100	(6)	100	(6)	0	( )
BENZENE	100	(6)	17	(6)	0	(6)	100	(2)
CHLOROBENZENE	100	(6)	17	(6)	0	(6)	0	(2)
1,2-DICHLOROETHANE	100	(6)	0	(6)	0	(6)	0	(2)
1,1,1-TRICHLOROETHANE	100	(6)	0	(6)	0	(6)	0	(2)
CHLOROFORM	100	(6)	17	(6)	17	(6)	100	(2)
1,2-TRANS-DICHLOROETHYLENE	100	(6)	0	(6)	0	(6)	0	( )
ETHYLBENZENE	100	(6)	0	(6)	17	(6)	100	(2)
METHYLENE CHLORIDE	100	(6)	83	(6)	83	(6)	100	(2)
TETRACHLOROETHYLENE	100	(6)	0	(6)	0	(6)	100	(2)
TOLUENE	100	(6)	17	(6)	0	(6)	100	(2)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	100	(2)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(2)
COPPER	100	(6)	17	(6)	0	(6)	100	(2)
CYANIDE	100	(6)	0	(6)	17	(6)	0	( )
NICKEL	100	(6)	100	(6)	0	(6)	100	(2)
SILVER	100	(6)	0	(6)	0	(6)	100	(2)
ZINC	100	(6)	100	(6)	67	(6)	100	(2)
ALUMINUM	100	(6)	83	(6)	100	(6)	100	(2)
BARIUM	100	(6)	100	(6)	100	(6)	100	(2)
BORON	100	(6)	100	(6)	100	(6)	100	(2)
CALCIUM	100	(6)	100	(6)	100	(6)	100	(2)
IRON	100	(6)	100	(6)	100	(6)	100	(2)
MAGNESIUM	100	(6)	100	(6)	100	(6)	100	(2)
MANGANESE	100	(6)	100	(6)	100	(6)	100	(2)
SODIUM	100	(6)	100	(6)	100	(6)	100	(2)
TITANIUM	100	(6)	83	(6)	67	(6)	100	(2)
CHLOROETHANE	83	(6)	67	(6)	83	(6)	0	( )
TRICHLOROETHYLENE	83	(6)	0	(6)	0	(6)	0	(2)
PHENOL	83	(6)	0	(6)	0	(6)	50	(2)
3,3'-DICHLOROBENZIDINE	83	(6)	0	(6)	0	(6)	0	( )
MERCURY	83	(6)	50	(6)	33	(6)	50	(2)
SELENIUM	83	(6)	67	(6)	50	(6)	0	(2)
METHYL CHLORIDE	67	(6)	17	(6)	0	(6)	0	( )
ARSENIC	67	(6)	67	(6)	67	(6)	100	(2)
LEAD	67	(6)	0	(6)	17	(6)	100	(2)
VANADIUM	67	(6)	0	(6)	0	(6)	100	(2)
YTTRIUM	67	(6)	83	(6)	100	(6)	100	(2)
DI-N-BUTYL PHTHALATE	50	(6)	33	(6)	50	(6)	50	(2)
1,1-DICHLOROETHANE	33	(6)	0	(6)	0	(6)	0	(2)
1,2-DIPHENYLHYDRAZINE	33	(6)	0	(6)	0	(6)	0	( )
ANTIMONY	33	(6)	17	(6)	17	(6)	0	(2)
BUTYL BENZYL PHTHALATE	17	(6)	0	(6)	0	(6)	0	(2)
DI-N-OCTYL PHTHALATE	17	(6)	50	(6)	50	(6)	0	(2)
DIMETHYL PHTHALATE	17	(6)	0	(6)	0	(6)	0	( )
THALLIUM	17	(6)	17	(6)	17	(6)	0	(2)
CHLORODIBROMOMETHANE	0	(6)	0	(6)	0	(6)	50	(2)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 55

PARAMETER	INFLUENT		SECONDARY EFFLUENT		TERTIARY EFFLUENT		OTHER INFLUENT	
2,4,6-TRICHLOROPHENOL	0	(6)	0	(6)	0	(6)	50	(2)
2-CHLOROPHENOL	0	(6)	0	(6)	0	(6)	50	(2)
PENTACHLOROPHENOL	0	(6)	0	(6)	0	(6)	50	(2)
FLUORANTHENE	0	(6)	0	(6)	0	(6)	100	(2)
ISOPHORONE	0	(6)	0	(6)	0	(6)	50	(2)
NAPHTHALENE	0	(6)	0	(6)	0	(6)	100	(2)
DIETHYL PHTHALATE	0	(6)	0	(6)	17	(6)	0	(2)
CHRYSENE	0	(6)	0	(6)	0	(6)	100	(2)
ANTHRACENE	0	(6)	0	(6)	0	(6)	100	(2)
PHENANTHRENE	0	(6)	0	(6)	0	(6)	100	(2)
PYRENE	0	(6)	0	(6)	0	(6)	50	(2)
BERYLLIUM	0	(6)	0	(6)	0	(6)	100	(2)
CADMIUM	0	(6)	0	(6)	0	(6)	100	(2)
COBALT	0	(6)	0	(6)	0	(6)	100	(2)
MOLYBDENUM	0	(6)	0	(6)	0	(6)	100	(2)
TIN	0	(6)	0	(6)	0	(6)	100	(2)

POLLUTANTS NOT LISTED HERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 56

PARAMETER	INFLUENT		TERTIARY EFFLUENT		PRIMARY EFFLUENT		COMBINED SLUDGE		SECONDARY SLUDGE	
BENZENE	100	(6)	83	(6)	67	(6)	0	( )	0	( )
1,2-TRANS-DICHLOROETHYLENE	100	(6)	100	(6)	100	(6)	0	( )	0	( )
ETHYLBENZENE	100	(6)	50	(6)	67	(6)	0	( )	0	( )
TOLUENE	100	(6)	83	(6)	100	(6)	0	( )	0	( )
TRICHLOROETHYLENE	100	(6)	100	(6)	67	(6)	0	( )	0	( )
PHENOL	100	(6)	0	(6)	33	(6)	0	( )	0	( )
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	67	(6)	100	(6)	0	( )	0	( )
DI-N-BUTYL PHTHALATE	100	(6)	83	(6)	100	(6)	0	( )	0	( )
DIETHYL PHTHALATE	100	(6)	67	(6)	83	(6)	0	( )	0	( )
GAMMA-BHC	100	(6)	83	(6)	83	(6)	0	( )	0	( )
ARSENIC	100	(6)	83	(6)	100	(6)	100	(6)	100	(6)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
CYANIDE	100	(6)	83	(6)	50	(6)	0	( )	100	(6)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(6)
1,1,1-TRICHLOROETHANE	83	(6)	100	(6)	100	(6)	0	( )	0	( )
TETRACHLOROETHYLENE	83	(6)	100	(6)	100	(6)	0	( )	0	( )
SILVER	83	(6)	0	(6)	50	(6)	100	(6)	100	(6)
METHYLENE CHLORIDE	67	(6)	100	(6)	83	(6)	0	( )	0	( )
NAPHTHALENE	67	(6)	0	(6)	0	(6)	0	( )	0	( )
BUTYL BENZYL PHTHALATE	67	(6)	17	(6)	0	(6)	0	( )	0	( )
LEAD	67	(6)	33	(6)	50	(6)	100	(6)	100	(6)
MERCURY	67	(6)	0	(6)	33	(6)	100	(6)	100	(6)
SELENIUM	50	(6)	33	(6)	17	(6)	67	(6)	0	(6)
ANTHRACENE	33	(6)	0	(6)	0	(6)	0	( )	0	( )
PHENANTHRENE	33	(6)	0	(6)	0	(6)	0	( )	0	( )
PYRENE	33	(6)	0	(6)	0	(6)	0	( )	0	( )
ALPHA-BHC	33	(6)	0	(6)	17	(6)	0	( )	0	( )
1,1-DICHLOROETHANE	17	(6)	0	(6)	100	(6)	0	( )	0	( )
CHLOROFORM	17	(6)	33	(6)	17	(6)	0	( )	0	( )
HEXACHLOROBENZENE	17	(6)	0	(6)	17	(6)	0	( )	0	( )
1,3-DICHLOROBENZENE	17	(6)	0	(6)	0	(6)	0	( )	0	( )
FLUORANTHENE	17	(6)	0	(6)	0	(6)	0	( )	0	( )
1,2-BENZANTHRACENE	17	(6)	0	(6)	0	(6)	0	( )	0	( )
CHRYSENE	17	(6)	0	(6)	0	(6)	0	( )	0	( )
ACENAPHTHYLENE	17	(6)	0	(6)	0	(6)	0	( )	0	( )
CADMIUM	17	(6)	0	(6)	17	(6)	100	(6)	83	(6)
THALLIUM	17	(6)	33	(6)	33	(6)	50	(6)	50	(6)
2,4-DIMETHYLPHENOL	0	(6)	0	(6)	67	(6)	0	( )	0	( )
HEPTACHLOR	0	(6)	50	(6)	0	(6)	0	( )	0	( )
DELTA-BHC	0	(6)	17	(6)	0	(6)	0	( )	0	( )
ANTIMONY	0	(6)	0	(6)	0	(6)	50	(6)	0	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 57

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		DIGESTED SLUDGE		OTHER INFLUENT	
CHLOROFORM	100	(6)	100	(6)	100	(1)	0	(1)	0	( )
1,2-TRANS-DICHLOROETHYLENE	100	(6)	100	(6)	100	(1)	100	(1)	0	( )
ETHYLBENZENE	100	(6)	33	(6)	100	(1)	100	(1)	0	( )
METHYLENE CHLORIDE	100	(6)	100	(6)	0	(1)	100	(1)	0	( )
TOLUENE	100	(6)	83	(6)	100	(1)	100	(1)	0	( )
TRICHLOROETHYLENE	100	(6)	100	(6)	100	(1)	0	(1)	0	( )
VINYL CHLORIDE	100	(6)	100	(6)	100	(1)	100	(1)	100	(2)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(2)	100	(2)	0	( )
ANTIMONY	100	(6)	83	(6)	100	(6)	100	(6)	0	(2)
ARSENIC	100	(6)	100	(6)	100	(6)	100	(6)	0	(2)
CADMIUM	100	(6)	100	(6)	100	(6)	100	(6)	0	(2)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)	100	(2)
COPPER	100	(6)	100	(6)	100	(6)	100	(6)	100	(2)
CYANIDE	100	(6)	0	(6)	80	(5)	60	(5)	0	(1)
LEAD	100	(6)	0	(6)	100	(6)	100	(6)	100	(2)
MERCURY	100	(6)	33	(6)	100	(6)	100	(6)	0	(2)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)	100	(2)
SILVER	100	(6)	83	(6)	100	(6)	100	(6)	50	(2)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)	100	(2)
1,1,1-TRICHLOROETHANE	83	(6)	33	(6)	100	(1)	100	(1)	0	( )
METHYL CHLORIDE	83	(6)	50	(6)	0	(1)	0	(1)	0	( )
TETRACHLOROETHYLENE	83	(6)	0	(6)	100	(1)	100	(1)	0	( )
BENZENE	67	(6)	0	(6)	100	(1)	100	(1)	0	( )
DI-N-BUTYL PHTHALATE	17	(6)	67	(6)	0	(2)	0	(2)	0	( )
CARBON TETRACHLORIDE	0	(6)	0	(6)	100	(1)	0	(1)	0	( )
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	100	(1)	0	(1)	0	( )
CHLOROETHANE	0	(6)	17	(6)	0	(1)	0	(1)	0	( )
1,1-DICHLOROETHYLENE	0	(6)	0	(6)	100	(1)	100	(1)	0	( )
TRICHLOROFLUOROMETHANE	0	(6)	0	(6)	100	(1)	0	(1)	0	( )
PHENOL	0	(6)	0	(6)	50	(2)	0	(2)	0	( )
FLUORANTHENE	0	(6)	0	(6)	0	(2)	50	(2)	0	( )
NAPHTHALENE	0	(6)	0	(6)	50	(2)	0	(2)	0	( )
PHENANTHRENE	0	(6)	0	(6)	50	(2)	0	(2)	0	( )
PYRENE	0	(6)	0	(6)	50	(2)	100	(2)	0	( )
BERYLLIUM	0	(6)	0	(6)	67	(6)	100	(6)	0	(2)
SELENIUM	0	(6)	0	(6)	100	(6)	100	(6)	0	(2)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 58

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE(THCKND)	
BOD	100	(6)	67	(6)	100	(5)	100	(5)
TOTAL SUSP. SOLIDS	100	(6)	100	(6)	100	(4)	100	(6)
COD	100	(6)	100	(6)	100	(6)	100	(6)
OIL & GREASE	100	(6)	100	(4)	100	(6)	100	(4)
TOTAL PHENOLS	100	(6)	100	(6)	100	(6)	100	(5)
TOTAL VOL. SUS. SOLIDS	100	(6)	100	(5)	100	(4)	100	(6)
AMMONIA NITROGEN	100	(6)	100	(6)	100	(1)	100	(4)
TOC	100	(6)	100	(5)	0	( )	0	( )
BENZENE	100	(6)	33	(6)	100	(2)	50	(2)
TOLUENE	100	(6)	0	(6)	100	(2)	100	(2)
PHENOL	100	(6)	17	(6)	0	(2)	50	(2)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(2)	100	(2)
DI-N-BUTYL PHTHALATE	100	(6)	83	(6)	100	(2)	50	(2)
CADMIUM	100	(6)	100	(6)	100	(6)	100	(6)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)
COPPER	100	(6)	100	(6)	100	(5)	100	(5)
CYANIDE	100	(6)	100	(6)	100	(6)	100	(6)
LEAD	100	(6)	100	(6)	100	(6)	100	(6)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)
SILVER	100	(6)	50	(6)	100	(6)	100	(6)
ZINC	100	(6)	100	(6)	100	(5)	100	(5)
ALUMINUM	100	(6)	100	(6)	100	(4)	100	(4)
BARIUM	100	(6)	100	(6)	100	(4)	100	(4)
BORON	100	(6)	100	(6)	100	(4)	100	(4)
CALCIUM	100	(6)	100	(6)	100	(4)	100	(4)
COBALT	100	(6)	83	(6)	100	(4)	100	(4)
IRON	100	(6)	100	(6)	100	(4)	100	(4)
MAGNESIUM	100	(6)	100	(6)	100	(4)	100	(4)
MANGANESE	100	(6)	100	(6)	100	(4)	100	(4)
MOLYBDENUM	100	(6)	100	(6)	100	(4)	100	(4)
SODIUM	100	(6)	100	(6)	100	(4)	100	(4)
TIN	100	(6)	100	(6)	100	(4)	100	(4)
TITANIUM	100	(6)	100	(6)	100	(4)	100	(4)
VANADIUM	100	(6)	100	(6)	100	(4)	100	(4)
YTTRIUM	100	(6)	83	(6)	100	(4)	100	(4)
CHLOROETHANE	83	(6)	67	(6)	0	(2)	0	(2)
METHYLENE CHLORIDE	83	(6)	100	(6)	50	(2)	0	(2)
TETRACHLOROETHYLENE	83	(6)	0	(6)	0	(2)	0	(2)
FLUORANTHENE	83	(6)	0	(6)	100	(2)	100	(2)
DI-N-OCTYL PHTHALATE	83	(6)	17	(6)	0	(2)	0	(2)
DIETHYL PHTHALATE	83	(6)	17	(6)	100	(2)	0	(2)
PYRENE	83	(6)	0	(6)	100	(2)	100	(2)
2,4-DIMETHYLPHENOL	67	(6)	0	(6)	0	(2)	0	(2)
1,2-DIPHENYLHYDRAZINE	67	(6)	17	(6)	0	(2)	0	(2)
ANTIMONY	67	(6)	33	(6)	100	(6)	100	(6)
CHLOROFORM	33	(6)	17	(6)	0	(2)	0	(2)
ETHYLBENZENE	33	(6)	0	(6)	100	(2)	0	(2)
TRICHLOROETHYLENE	33	(6)	0	(6)	100	(2)	0	(2)
2,6-DINITROTOLUENE	33	(6)	0	(6)	0	(2)	0	(2)
MERCURY	33	(6)	33	(6)	83	(6)	83	(6)
SELENIUM	33	(6)	67	(6)	83	(6)	100	(6)
2,4-DINITROTOLUENE	17	(6)	0	(6)	0	(2)	0	(2)
1,2-BENZANTHRACENE	17	(6)	0	(6)	100	(2)	100	(2)
CHRYSENE	17	(6)	0	(6)	100	(2)	100	(2)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 58

PARAMETER	INFLUENT		SECONDARY EFFLUENT		PRIMARY SLUDGE		SECONDARY SLUDGE(THCKND)	
ARSENIC	17	(6)	17	(6)	100	(6)	100	(6)
TOTAL SOLIDS	0	( )	0	( )	100	(2)	0	( )
TOTAL VOLATILE SOLIDS	0	( )	0	( )	100	(2)	0	( )
1,2-TRANS-DICHLOROETHYLENE	0	(6)	0	(6)	100	(2)	0	(2)
METHYL CHLORIDE	0	(6)	17	(6)	0	(2)	0	(2)
DICHLORODIFLUOROMETHANE	0	(6)	0	(6)	50	(2)	50	(2)
PENTACHLOROPHENOL	0	(6)	0	(6)	100	(2)	0	(2)
NAPHTHALENE	0	(6)	0	(6)	100	(2)	0	(2)
BUTYL BENZYL PHTHALATE	0	(6)	0	(6)	100	(2)	50	(2)
BENZO (A)PYRENE	0	(6)	0	(6)	100	(2)	50	(2)
11,12-BENZOFLUORANTHENE	0	(6)	0	(6)	100	(2)	50	(2)
ANTHRACENE	0	(6)	0	(6)	100	(2)	100	(2)
1,12-BENZOPERYLENE	0	(6)	0	(6)	100	(2)	0	(2)
PHENANTHRENE	0	(6)	0	(6)	100	(2)	100	(2)
BERYLLIUM	0	(6)	0	(6)	83	(6)	83	(6)

POLLUTANTS NOT LISTED HERE NEVER DETECTED.

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 59

PARAMETER	INFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE(THCKND)		GRAV THCKNR OVERFLOW	
BOD	100	(6)	17	(6)	100	(3)	100	(6)
TOTAL SUSP. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
COD	100	(6)	100	(6)	100	(6)	100	(6)
OIL & GREASE	100	(5)	100	(6)	100	(6)	100	(6)
TOTAL PHENOLS	100	(6)	100	(6)	67	(6)	100	(6)
TOTAL VOL. SUS. SOLIDS	100	(6)	100	(6)	100	(6)	100	(6)
AMMONIA NITROGEN	100	(6)	100	(6)	100	(6)	100	(6)
TOC	100	(6)	100	(5)	0	( )	100	(6)
BENZENE	100	(6)	0	(6)	100	(6)	0	(6)
1,1,1-TRICHLOROETHANE	100	(6)	100	(6)	0	(6)	83	(6)
CHLOROFORM	100	(6)	100	(6)	67	(6)	100	(6)
ETHYLBENZENE	100	(6)	17	(6)	100	(6)	50	(6)
METHYLENE CHLORIDE	100	(6)	100	(6)	50	(6)	100	(6)
TETRACHLOROETHYLENE	100	(6)	100	(6)	50	(6)	50	(6)
PHENOL	100	(6)	67	(6)	100	(6)	83	(6)
BIS(2-ETHYLHEXYL) PHTHALATE	100	(6)	100	(6)	100	(6)	100	(6)
CHROMIUM	100	(6)	100	(6)	100	(6)	100	(6)
COPPER	100	(6)	83	(6)	100	(6)	100	(6)
CYANIDE	100	(5)	60	(5)	0	(5)	20	(5)
MERCURY	100	(6)	33	(6)	83	(6)	83	(6)
NICKEL	100	(6)	100	(6)	100	(6)	100	(6)
SILVER	100	(6)	60	(5)	100	(6)	100	(5)
ZINC	100	(6)	100	(6)	100	(6)	100	(6)
ALUMINUM	100	(6)	100	(6)	0	( )	100	(6)
BARIUM	100	(6)	100	(6)	0	( )	100	(6)
BORON	100	(6)	100	(6)	0	( )	100	(6)
CALCIUM	100	(6)	100	(6)	0	( )	100	(6)
IRON	100	(6)	100	(6)	0	( )	100	(6)
MAGNESIUM	100	(6)	100	(6)	0	( )	100	(6)
MANGANESE	100	(5)	100	(5)	0	( )	100	(5)
SODIUM	100	(6)	100	(6)	0	( )	100	(6)
TITANIUM	100	(6)	50	(6)	0	( )	100	(6)
TOLUENE	83	(6)	33	(6)	100	(6)	17	(6)
TRICHLOROETHYLENE	83	(6)	67	(6)	67	(6)	83	(6)
NAPHTHALENE	83	(6)	0	(6)	33	(6)	50	(6)
DI-N-BUTYL PHTHALATE	83	(6)	100	(6)	100	(6)	100	(6)
DIETHYL PHTHALATE	83	(6)	100	(6)	0	(6)	100	(6)
1,2-TRANS-DICHLOROETHYLENE	67	(6)	0	(6)	100	(6)	0	(6)
1,2-DICHLOROBENZENE	67	(6)	17	(6)	0	(6)	33	(6)
VANADIUM	67	(6)	50	(6)	0	( )	67	(6)
DI-N-OCTYL PHTHALATE	33	(6)	33	(6)	0	(6)	67	(6)
ARSENIC	33	(6)	17	(6)	100	(6)	17	(6)
SELENIUM	33	(6)	20	(5)	67	(6)	20	(5)
2-CHLOROPHENOL	17	(6)	0	(6)	0	(6)	0	(6)
NITROBENZENE	17	(6)	17	(6)	0	(6)	17	(6)
ANTIMONY	17	(6)	17	(6)	100	(6)	17	(6)
CHLOROBENZENE	0	(6)	0	(6)	100	(6)	0	(6)
1,1-DICHLOROETHANE	0	(6)	0	(6)	100	(6)	0	(6)
1,1,2-TRICHLOROETHANE	0	(6)	0	(6)	17	(6)	0	(6)
1,1,2,2-TETRACHLOROETHANE	0	(6)	0	(6)	83	(6)	0	(6)
1,2-DICHLOROPROPANE	0	(6)	0	(6)	100	(6)	0	(6)
DICHLOROBROMOMETHANE	0	(6)	0	(6)	83	(6)	0	(6)
2,4-DIMETHYLPHENOL	0	(6)	33	(6)	0	(6)	67	(6)
4,6-DINITRO-O-CRESOL	0	(6)	17	(6)	0	(6)	17	(6)

POLLUTANTS NOT LISTED HERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 59

PARAMETER	INFLUENT		SECONDARY EFFLUENT		COMBINED SLUDGE(THCKND)		GRAV THCKNR OVERFLOW	
BIS(2-CHLOROETHYL) ETHER	0	(6)	0	(6)	0	(6)	17	(6)
1,4-DICHLOROBENZENE	0	(6)	0	(6)	0	(6)	33	(6)
FLUORANTHENE	0	(6)	0	(6)	100	(6)	0	(6)
ISOPHORONE	0	(6)	50	(6)	0	(6)	17	(6)
1,2-BENZANTHRACENE	0	(6)	0	(6)	100	(6)	0	(6)
11,12-BENZOFLUORANTHENE	0	(6)	0	(6)	33	(6)	0	(6)
CHRYSENE	0	(6)	0	(6)	100	(6)	0	(6)
ANTHRACENE	0	(6)	0	(6)	100	(6)	0	(6)
PHENANTHRENE	0	(6)	0	(6)	100	(6)	0	(6)
PYRENE	0	(6)	0	(6)	100	(6)	0	(6)
4,4'-DDT	0	(6)	17	(6)	0	(6)	0	(6)
BERYLLIUM	0	(6)	0	(6)	67	(6)	0	(6)
CADMIUM	0	(6)	0	(6)	83	(6)	0	(6)
LEAD	0	(6)	17	(6)	100	(6)	0	(6)

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 60

PARAMETER	INFL	SEC EFFL	PRIM EFFL	COMB SLUDGE THICKENED	COMB SLUDGE HEAT TREATED	OTHER INFLUENT	TAP H2O
BENZENE	100 (6)	0 (6)	100 (6)	100 (4)	100 (4)	50 (6)	0( )
1,1,1-TRICHLOROETHANE	100 (6)	100 (6)	100 (6)	50 (4)	0 (4)	0 (6)	0( )
1,1-DICHLOROETHANE	100 (6)	0 (6)	100 (6)	100 (4)	25 (4)	0 (6)	0( )
CHLOROFORM	100 (6)	50 (6)	100 (6)	25 (4)	100 (4)	17 (6)	0( )
1,1-DICHLOROETHYLENE	100 (6)	0 (6)	100 (6)	0 (4)	75 (4)	0 (6)	0( )
ETHYLBENZENE	100 (6)	17 (6)	100 (6)	100 (4)	100 (4)	67 (6)	0( )
METHYLENE CHLORIDE	100 (6)	100 (6)	100 (6)	100 (4)	50 (4)	0 (6)	0( )
TETRACHLOROETHYLENE	100 (6)	67 (6)	100 (6)	0 (4)	100 (4)	0 (6)	0( )
TOLUENE	100 (6)	0 (6)	83 (6)	100 (4)	100 (4)	83 (6)	0( )
TRICHLOROETHYLENE	100 (6)	17 (6)	100 (6)	0 (4)	100 (4)	0 (6)	0( )
PHENOL	100 (6)	67 (6)	83 (6)	100 (4)	100 (4)	100 (6)	0( )
1,2-DICHLOROBENZENE	100 (6)	50 (6)	100 (6)	75 (4)	75 (4)	100 (6)	0( )
1,4-DICHLOROBENZENE	100 (6)	17 (6)	100 (6)	100 (4)	100 (4)	83 (6)	0( )
NAPHTHALENE	100 (6)	0 (6)	100 (6)	100 (4)	100 (4)	100 (6)	0( )
BIS(2-ETHYLHEXYL) PHTHALATE	100 (6)	100 (6)	100 (6)	100 (4)	100 (4)	100 (6)	0( )
BUTYL BENZYL PHTHALATE	100 (6)	0 (6)	100 (6)	25 (4)	0 (4)	0 (6)	0( )
DI-N-BUTYL PHTHALATE	100 (6)	67 (6)	100 (6)	50 (4)	75 (4)	33 (6)	0( )
DIETHYL PHTHALATE	100 (6)	67 (6)	100 (6)	0 (4)	0 (4)	0 (6)	0( )
CHROMIUM	100 (6)	100 (6)	100 (6)	100 (3)	100 (3)	100 (6)	0( )
COPPER	100 (6)	100 (6)	100 (6)	100 (3)	100 (4)	100 (6)	0( )
CYANIDE	100 (6)	100 (6)	100 (6)	100 (4)	100 (4)	33 (6)	0(1)
NICKEL	100 (6)	100 (6)	100 (6)	100 (3)	100 (4)	17 (6)	0( )
ZINC	100 (6)	100 (6)	100 (6)	100 (3)	100 (4)	100 (6)	0( )
1,2-TRANS-DICHLOROETHYLENE	83 (6)	0 (6)	100 (6)	100 (4)	50 (4)	0 (6)	0( )
MERCURY	83 (6)	0 (6)	17 (6)	100 (4)	100 (4)	83 (6)	0( )
SILVER	83 (6)	17 (6)	50 (6)	100 (4)	100 (4)	0 ( )	0( )
PENTACHLOROPHENOL	50 (6)	0 (6)	33 (6)	0 (4)	0 (4)	83 (6)	0( )
DIMETHYL PHTHALATE	50 (6)	17 (6)	33 (6)	0 (4)	0 (4)	0 (6)	0( )
ANTHRACENE	50 (6)	0 (6)	0 (6)	0 (4)	0 (4)	33 (6)	0( )
PHENANTHRENE	50 (6)	0 (6)	0 (6)	100 (4)	25 (4)	0 (6)	0( )
DELTA-BHC	50 (6)	17 (6)	17 (6)	0 (4)	0 (4)	0 (6)	0( )
ARSENIC	50 (6)	50 (6)	67 (6)	75 (4)	75 (4)	0 ( )	0( )
CADMIUM	50 (6)	0 (6)	0 (6)	100 (4)	100 (4)	50 (6)	0( )
VINYL CHLORIDE	33 (6)	0 (6)	33 (6)	0 (4)	0 (4)	0 (6)	0( )
4-NITROPHENOL	33 (6)	0 (6)	0 (6)	0 (4)	0 (4)	83 (6)	0( )
ALDRIN	33 (6)	17 (6)	0 (6)	0 (4)	0 (4)	0 (6)	0( )
GAMMA-BHC	33 (6)	0 (6)	0 (6)	0 (4)	0 (4)	0 (6)	0( )
ANTIMONY	33 (6)	17 (6)	50 (6)	100 (4)	100 (4)	0 ( )	0( )
LEAD	33 (6)	0 (6)	17 (6)	100 (4)	100 (4)	50 (6)	0( )
SELENIUM	33 (6)	67 (6)	33 (6)	75 (4)	75 (4)	0 ( )	0( )
1,2-DICHLOROETHANE	17 (6)	17 (6)	33 (6)	100 (4)	0 (4)	0 (6)	0( )
TRICHLOROFLUOROMETHANE	17 (6)	0 (6)	0 (6)	0 (4)	25 (4)	0 (6)	0( )
PARACHLOROMETA CRESOL	17 (6)	0 (6)	17 (6)	0 (4)	0 (4)	0 (6)	0( )
DI-N-OCTYL PHTHALATE	17 (6)	0 (6)	0 (6)	0 (4)	0 (4)	0 (6)	0( )
4,4'-DDE	17 (6)	0 (6)	0 (6)	0 (4)	0 (4)	0 (6)	0( )
HEPTACHLOR EPOXIDE	17 (6)	17 (6)	33 (6)	0 (4)	0 (4)	0 (6)	0( )
CHLOROBENZENE	0 (6)	0 (6)	0 (6)	0 (4)	100 (4)	0 (6)	0( )
CHLOROETHANE	0 (6)	0 (6)	0 (6)	50 (4)	0 (4)	0 (6)	0( )
DICHLORODIFLUOROMETHANE	0 (6)	0 (6)	0 (6)	0 (4)	25 (4)	0 (6)	0( )
2,4-DIMETHYLPHENOL	0 (6)	0 (6)	0 (6)	0 (4)	0 (4)	17 (6)	0( )
2,4-DINITROPHENOL	0 (6)	0 (6)	0 (6)	0 (4)	0 (4)	17 (6)	0( )
ACENAPHTHENE	0 (6)	0 (6)	0 (6)	0 (4)	25 (4)	17 (6)	0( )
1,3-DICHLOROBENZENE	0 (6)	0 (6)	0 (6)	25 (4)	25 (4)	50 (6)	0( )
FLUORANTHENE	0 (6)	0 (6)	0 (6)	75 (4)	75 (4)	0 (6)	0( )

POLLUTANTS NOT LISTED WERE NEVER DETECTED

PERCENT OCCURRENCE OF POLLUTANT PARAMETERS

PLANT 60

PARAMETER	INFL	SEC EFFL	PRIM EFFL	COMB SLUDGE THICKENED	COMB SLUDGE HEAT TREATED	OTHER INFLUENT	TAP H2O
NITROBENZENE	0 (6)	0 (6)	0 (6)	0 (4)	0 (4)	83 (6)	0( )
ACENAPHTHYLENE	0 (6)	0 (6)	0 (6)	25 (4)	0 (4)	0 (6)	0( )
PYRENE	0 (6)	0 (6)	0 (6)	75 (4)	75 (4)	0 (6)	0( )
ALPHA-ENDOSULFAN	0 (6)	17 (6)	0 (6)	0 (4)	0 (4)	0 (6)	0( )
BETA-ENDOSULFAN	0 (6)	17 (6)	0 (6)	0 (4)	0 (4)	0 (6)	0( )
ALPHA-BHC	0 (6)	33 (6)	0 (6)	0 (4)	0 (4)	0 (6)	0( )
BETA-BHC	0 (6)	17 (6)	17 (6)	0 (4)	0 (4)	0 (6)	0( )
BERYLLIUM	0 (6)	0 (6)	0 (6)	50 (4)	0 (4)	0 ( )	0( )
THALLIUM	0 (6)	17 (6)	17 (6)	0 (4)	0 (4)	0 ( )	0( )

POLLUTANTS NOT LISTED WERE NEVER DETECTED

APPENDIX E

MASS BALANCE IN POUNDS PER DAY

PLANTS 1 to 40 AND 51 to 60

MASS BALANCE IN POUNDS PER DAY

PLANT 1

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	153075	137768	10133	53756	73879
	TOTAL SUSP. SOLIDS	105850	216611	15072	124395	77144
	COD	309298	287194	51676	153272	82246
	OIL & GREASE	39300	32087	3908	23617	4562
NON-CONVENTIONALS	TOTAL PHENOLS	131	12.3	10.1	1.8	.4
	TOTAL SOLIDS	704035	858430	633541	151051	73838
	TOTAL VOLATILE SOLIDS	174570	310706	198852	71527	40327
	TOTAL VOL. SUS. SOLIDS	79143	124139	10513	62197	51429
	AMMONIA NITROGEN	4885	4062	3800	156	106
	TOC	194220	145431	49523	62642	33266
VOLATILES	ACRYLONITRILE	N-D	L 0.1	N-D	N-D	L 0.1
	BENZENE	6.7	2.6	2.0	.5	.1
	CARBON TETRACHLORIDE	1.1	L 0.1	N-D	L 0.1	L 0.1
	CHLOROBENZENE	.3	N-D	N-D	N-D	N-D
	1,2-DICHLOROETHANE	.1	N-D	N-D	N-D	N-D
	1,1,1-TRICHLOROETHANE	14.1	2.7	2.6	L 0.1	N-D
	1,1-DICHLOROETHANE	.9	L 0.1	N-D	L 0.1	N-D
	1,1,2-TRICHLOROETHANE	5.1	N-D	N-D	N-D	N-D
	CHLOROFORM	37.3	14.3	14.3	N-D	N-D
	1,1-DICHLOROETHYLENE	3.4	2.8	2.8	L 0.1	N-D
	1,2-TRANS-DICHLOROETHYLENE	3.4	.8	.7	L 0.1	N-D
	1,2-DICHLOROPROPANE	.1	N-D	N-D	N-D	N-D
	ETHYLBENZENE	24.9	3.5	2.8	.7	L 0.1
	METHYLENE CHLORIDE	7.9	8.1	4.5	.6	3.0
	METHYL CHLORIDE	.2	N-D	N-D	N-D	N-D
	DICHLOROBROMOMETHANE	.1	1.8	.9	.2	.7
	TRICHLOROFLUOROMETHANE	.1	.2	.2	N-D	N-D
	CHLORODIBROMOMETHANE	N-D	.4	N-D	L 0.1	.4
	TETRACHLOROETHYLENE	41.4	4.8	3.9	.8	L 0.1
	TOLUENE	15.6	4.2	3.4	.8	L 0.1
	TRICHLOROETHYLENE	19.8	4.1	3.3	.8	L 0.1
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	.2	N-D	N-D	N-D	N-D
	PARACHLOROMETA CRESOL	.2	N-D	N-D	N-D	N-D
	2-CHLOROPHENOL	N-D	.5	.5	N-D	N-D
	2,4-DIMETHYLPHENOL	N-D	.5	.5	N-D	N-D
	PENTACHLOROPHENOL	1.4	2.1	.5	.2	1.4
	PHENOL	12.1	16.7	15.6	.3	.8
BASE-NEUTRALS	ACENAPHTHENE	.4	.3	N-D	.3	N-D
	1,2,4-TRICHLOROBENZENE	.2	N-D	N-D	N-D	N-D
	HEXACHLOROBENZENE	.2	N-D	N-D	N-D	N-D
	1,2-DICHLOROBENZENE	1.6	.5	.5	N-D	N-D
	1,3-DICHLOROBENZENE	1.0	.5	.5	N-D	N-D
	1,4-DICHLOROBENZENE	1.4	1.1	1.1	N-D	N-D
	3,3'-DICHLOROBENZIDINE	N-D	.5	.5	N-D	N-D
	FLUORANTHENE	1.5	1.6	1.6	N-D	N-D
	BIS(2-CHLOROETHYOXY) METHANE	.5	N-D	N-D	N-D	N-D
	HEXACHLOROBUTADIENE	.2	N-D	N-D	N-D	N-D
	NAPHTHALENE	3.6	2.1	1.6	.5	L 0.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 1

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
BASE-NEUTRALS	BIS(2-ETHYLHEXYL) PHTHALATE	26.2	16.7	10.3	5.9	.5
	BUTYL BENZYL PHTHALATE	1.7	1.6	1.6	L 0.1	N-D
	DI-N-BUTYL PHTHALATE	4.2	2.2	2.2	N-D	N-D
	DI-N-OCTYL PHTHALATE	.2	.5	.5	N-D	N-D
	DIETHYL PHTHALATE	2.4	1.1	1.1	N-D	N-D
	DIMETHYL PHTHALATE	1.4	.5	.5	N-D	N-D
	1,2-BENZANTHRACENE	.4	1.8	.5	1.3	N-D
	3,4-BENZOFLUORANTHENE	N-D	1.8	N-D	1.8	L 0.1
	CHRYSENE	.4	1.8	.5	1.3	N-D
	ACENAPHTHYLENE	.2	N-D	N-D	N-D	N-D
	ANTHRACENE	2.6	5.9	1.6	4.2	L 0.1
	1,12-BENZOPERYLENE	.2	N-D	N-D	N-D	N-D
	FLUORENE	1.2	1.3	.5	.8	N-D
	PHENANTHRENE	3.0	5.9	1.6	4.2	L 0.1
	1,2:5,6-DIBENZANTHRACENE	.2	.6	.5	N-D	.1
	INDENO(1,2,3-C,D) PYRENE	.2	.6	.5	N-D	L 0.1
	PYRENE	1.3	4.2	2.2	2.0	N-D
METALS	ANTIMONY	N-D	.7	N-D	.4	.3
	ARSENIC	N-D	4.2	N-D	3.4	.8
	BERYLLIUM	N-D	.2	N-D	L 0.1	.1
	CADMIUM	9.0	10.6	3.1	3.3	4.2
	CHROMIUM	319	295	35.1	38.8	221
	COPPER	139	337	20.7	206	110
	CYANIDE	12.7	7.4	5.0	1.7	.7
	LEAD	36.4	145	N-D	125	19.5
	MERCURY	.2	.3	.3	L 0.1	L 0.1
	NICKEL	70.3	108	30.7	35.6	40.9
	SELENIUM	N-D	.3	N-D	L 0.1	.3
	SILVER	5.4	2.3	N-D	L 0.1	2.2
	THALLIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	ZINC	197	572	68.6	346	157
NON-CONV. METALS	ALUMINUM	1035	-	154	NOT RUN	NOT RUN
	BARIUM	101	-	37.7	NOT RUN	NOT RUN
	CALCIUM	62316	-	60361	NOT RUN	NOT RUN
	IRON	4051	-	298	NOT RUN	NOT RUN
	MAGNESIUM	19650	-	20193	NOT RUN	NOT RUN
	MANGANESE	80.6	-	84.0	NOT RUN	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 2

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	6373	3085	972	2113
	TOTAL SUSP. SOLIDS	6546	6052	626	5426
	COD	12323	10684	2580	8104
	OIL & GREASE	1637	1417	529	888
NON-CONVENTIONALS	TOTAL PHENOLS	1.3	.3	.2	.1
	TOTAL SOLIDS	41685	44610	38220	6390
	TOTAL VOLATILE SOLIDS	9608	12485	8915	3570
	TOTAL VOL. SUS. SOLIDS	3658	3399	375	3024
	AMMONIA NITROGEN	789	7932	4756	3176
	TOC	4708	4868	1887	2981
VOLATILES	ACRYLONITRILE	N-D	L 0.1	N-D	L 0.1
	BENZENE	.7	.2	.2	L 0.1
	CHLOROBENZENE	L 0.1	N-D	N-D	N-D
	1,2-DICHLOROETHANE	L 0.1	L 0.1	L 0.1	N-D
	1,1,1-TRICHLOROETHANE	L 0.1	L 0.1	L 0.1	N-D
	1,1-DICHLOROETHANE	L 0.1	N-D	N-D	N-D
	CHLOROFORM	.3	.4	.4	N-D
	1,1-DICHLOROETHYLENE	.1	.1	.1	N-D
	1,2-DICHLOROPROPANE	L 0.1	N-D	N-D	N-D
	ETHYLBENZENE	.1	L 0.1	L 0.1	L 0.1
	METHYLENE CHLORIDE	.6	.4	.3	L 0.1
	DICHLOROBROMOMETHANE	L 0.1	.1	.1	L 0.1
	CHLORODIBROMOMETHANE	L 0.1	L 0.1	L 0.1	L 0.1
	TETRACHLOROETHYLENE	.3	.2	.2	L 0.1
	TOLUENE	.3	.3	.2	L 0.1
	TRICHLOROETHYLENE	.1	L 0.1	L 0.1	N-D
ACID EXTRACT	2-NITROPHENOL	N-D	.1	.1	N-D
	4-NITROPHENOL	N-D	1.0	1.0	N-D
	PENTACHLOROPHENOL	L 0.1	L 0.1	L 0.1	N-D
	PHENOL	.2	.3	.3	L 0.1
BASE-NEUTRALS	1,2-DICHLOROBENZENE	.2	L 0.1	L 0.1	N-D
	1,3-DICHLOROBENZENE	L 0.1	.2	.2	N-D
	1,4-DICHLOROBENZENE	L 0.1	N-D	N-D	N-D
	3,3'-DICHLOROBENZIDINE	N-D	L 0.1	L 0.1	N-D
	2,6-DINITROTOLUENE	L 0.1	N-D	N-D	N-D
	FLUORANTHENE	.1	N-D	N-D	N-D
	ISOPHORONE	L 0.1	N-D	N-D	N-D
	NAPHTHALENE	.2	.1	L 0.1	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	.7	.7	.3	.4
	BUTYL BENZYL PHTHALATE	.3	.2	.2	L 0.1
	DI-N-BUTYL PHTHALATE	.3	.2	.2	N-D
	DI-N-OCTYL PHTHALATE	.2	L 0.1	L 0.1	N-D
	DIETHYL PHTHALATE	.3	L 0.1	L 0.1	N-D
	DIMETHYL PHTHALATE	.1	L 0.1	L 0.1	N-D
	1,2-BENZANTHRACENE	N-D	L 0.1	L 0.1	L 0.1
	BENZO (A)PYRENE	L 0.1	N-D	N-D	N-D
	3,4-BENZOFLUORANTHENE	L 0.1	L 0.1	N-D	L 0.1
	11,12-BENZOFLUORANTHENE	L 0.1	N-D	N-D	N-D

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D NOT DETECTED; L LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 2

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
BASE-NEUTRALS	CHRYSENE	N-D	L 0.1	L 0.1	L 0.1
	ACENAPHTHYLENE	N-D	L 0.1	L 0.1	N-D
	ANTHRACENE	L 0.1	L 0.1	N-D	L 0.1
	PHENANTHRENE	L 0.1	L 0.1	N-D	L 0.1
	PYRENE	.1	L 0.1	N-D	L 0.1
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1
	ARSENIC	N-D	L 0.1	N-D	L 0.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	.3	L 0.1	N-D	L 0.1
	CHROMIUM	4.8	3.5	1.5	2.0
	COPPER	3.6	3.4	.7	2.7
	CYANIDE	5.2	10.0	9.6	.4
	LEAD	1.1	2.0	.2	1.8
	MERCURY	L 0.1	L 0.1	L 0.1	L 0.1
	NICKEL	2.0	2.1	1.3	.8
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	L 0.1	L 0.1	L 0.1	L 0.1
	THALLIUM	N-D	L 0.1	N-D	L 0.1
	ZINC	18.7	10.2	3.5	6.7
NON-CONV. METALS	ALUMINUM	36.2	-	3.4	NOT RUN
	BARIUM	5.0	-	1.7	NOT RUN
	CALCIUM	3928	-	4400	NOT RUN
	IRON	111	-	12.7	NOT RUN
	MAGNESIUM	828	-	818	NOT RUN
	MANGANESE	18.9	-	11.8	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 3

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	11512	2727	1252	1475
	TOTAL SUSP. SOLIDS	23333	14439	3823	10616
	COD	36185	11433	3911	7522
	OIL & GREASE	3823	951	352	599
NON-CONVENTIONALS	TOTAL PHENOLS	9.8	1.8	1.3	.5
	TOTAL SOLIDS	48533	43536	30868	12668
	TOTAL DISS. SOLIDS	24277	28258	26233	2025
	TOTAL VOLATILE SOLIDS	20389	13605	6745	6860
	VOLATILE DISS. SOLIDS	5756	5969	5097	872
	TOTAL VOL. SUS. SOLIDS	13160	7232	1274	5958
	AMMONIA NITROGEN	1252	120	110	10.3
	TOC	18389	8029	2966	5063
VOLATILES	BENZENE	.4	L 0.1	N-D	L 0.1
	1,1,1-TRICHLOROETHANE	5.4	.4	.4	N-D
	CHLOROFORM	3.3	2.0	2.0	N-D
	1,1-DICHLOROETHYLENE	.3	N-D	N-D	N-D
	1,2-DICHLOROPROPANE	L 0.1	N-D	N-D	N-D
	ETHYLBENZENE	4.0	L 0.1	N-D	L 0.1
	METHYLENE CHLORIDE	1.0	.4	.4	L 0.1
	DICHLOROBROMOMETHANE	N-D	.1	.1	N-D
	TRICHLOROFLUOROMETHANE	L 0.1	N-D	N-D	N-D
	CHLORODIBROMOMETHANE	N-D	.1	.1	N-D
	TETRACHLOROETHYLENE	4.6	.7	.2	.5
	TOLUENE	1.3	.1	.1	L 0.1
	TRICHLOROETHYLENE	.4	.1	.1	N-D
ACID EXTRACT	PENTACHLOROPHENOL	N-D	L 0.1	N-D	L 0.1
	PHENOL	1.3	1.4	N-D	1.4
BASE-NEUTRALS	1,2-DICHLOROBENZENE	L 0.1	N-D	N-D	N-D
	1,3-DICHLOROBENZENE	L 0.1	N-D	N-D	N-D
	1,4-DICHLOROBENZENE	L 0.1	N-D	N-D	N-D
	FLUORANTHENE	L 0.1	L 0.1	N-D	L 0.1
	NAPHTHALENE	.3	N-D	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	2.3	.5	.4	L 0.1
	BUTYL BENZYL PHTHALATE	.5	N-D	N-D	N-D
	DI-N-BUTYL PHTHALATE	.5	.4	.4	L 0.1
	DI-N-OCTYL PHTHALATE	.3	N-D	N-D	N-D
	DIETHYL PHTHALATE	.4	.1	.1	N-D
	DIMETHYL PHTHALATE	.2	N-D	N-D	N-D
	1,2-BENZANTHRACENE	L 0.1	N-D	N-D	N-D
	BENZO (A)PYRENE	L 0.1	N-D	N-D	N-D
	3,4-BENZOFLUORANTHENE	L 0.1	N-D	N-D	N-D
	11,12-BENZOFLUORANTHENE	L 0.1	N-D	N-D	N-D
	CHRYSENE	L 0.1	N-D	N-D	N-D
	ANTHRACENE	.2	L 0.1	N-D	L 0.1
	PHENANTHRENE	.2	L 0.1	N-D	L 0.1
	PYRENE	L 0.1	L 0.1	N-D	L 0.1
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 3

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
METALS	ARSENIC	.3	L 0.1	N-D	L 0.1
	BERYLLIUM	N-D	L 0.1	L 0.1	L 0.1
	CADMIUM	.4	.5	.5	L 0.1
	CHROMIUM	2.4	2.4	.8	1.6
	COPPER	23.6	10.6	3.8	6.8
	CYANIDE	8.8	14.5	12.1	2.4
	LEAD	8.6	4.4	3.9	.5
	MERCURY	N-D	L 0.1	N-D	L 0.1
	NICKEL	5.3	7.9	7.7	.2
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	.1	.1	N-D	.1
	ZINC	27.9	10.6	5.3	5.3
NON-CONV. METALS	ALUMINUM	188	-	22.0	NOT RUN
	BARIUM	10.5	-	L 0.1	NOT RUN
	BORON	25.8	-	22.6	NOT RUN
	CALCIUM	2219	-	1648	NOT RUN
	COBALT	2.3	-	.9	NOT RUN
	IRON	1149	-	20.4	NOT RUN
	MAGNESIUM	373	-	242	NOT RUN
	MANGANESE	25.6	-	2.0	NOT RUN
	MOLYBDENUM	12.3	-	13.3	NOT RUN
	SODIUM	5119	-	5822	NOT RUN
	TIN	3.8	-	.4	NOT RUN
	TITANIUM	13.8	-	.5	NOT RUN
	VANADIUM	6.1	-	2.5	NOT RUN
	YTTRIUM	.3	-	.5	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 4

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	105707	28729	14985	13744
	TOTAL SUSP. SOLIDS	113955	134371	29621	104750
	COD	238945	141745	56571	85174
	OIL & GREASE	81662	33647	11035	22612
NON-CONVENTIONALS	TOTAL PHENOLS	85.6	22.5	19.6	2.9
	TOTAL SOLIDS	280182	307342	192596	114746
	TOTAL DISS. SOLIDS	175288	145687	144041	1646
	TOTAL VOLATILE SOLIDS	123712	131524	77712	53812
	VOLATILE DISS. SOLIDS	55758	41089	40076	1013
	TOTAL VOL. SUS. SOLIDS	82243	57864	20212	37652
	AMMONIA NITROGEN	6389	7116	5808	1308
	TOC	69232	55594	26601	28993
VOLATILES	BENZENE	N-D	L 0.1	N-D	L 0.1
	CHLOROBENZENE	N-D	.6	N-D	.6
	1,2-DICHLOROETHANE	N-D	.2	N-D	.2
	1,1,1-TRICHLOROETHANE	198	61.9	61.8	L 0.1
	1,1,2,2-TETRACHLOROETHANE	12.8	1.5	1.0	.5
	CHLOROFORM	5.5	2.1	2.1	N-D
	1,1-DICHLOROETHYLENE	8.7	2.2	2.2	L 0.1
	1,2-TRANS-DICHLOROETHYLENE	17.4	29.6	5.1	24.5
	1,2-DICHLOROPROPANE	N-D	L 0.1	N-D	L 0.1
	ETHYLBENZENE	30.9	2.3	N-D	2.3
	METHYLENE CHLORIDE	197	89.0	89.0	L 0.1
	TETRACHLOROETHYLENE	268	93.2	93.2	L 0.1
	TOLUENE	25.0	4.8	.2	4.6
	TRICHLOROETHYLENE	346	26.2	25.9	.3
	VINYL CHLORIDE	N-D	L 0.1	N-D	L 0.1
ACID EXTRACT	2,4-DIMETHYLPHENOL	2.3	N-D	N-D	N-D
	2-NITROPHENOL	N-D	L 0.1	N-D	L 0.1
	2,4-DINITROPHENOL	N-D	.5	N-D	.5
	PENTACHLOROPHENOL	6.0	N-D	N-D	N-D
	PHENOL	12.3	.5	.3	.2
BASE-NEUTRALS	ACENAPHTHENE	N-D	.2	N-D	.2
	1,2-DICHLOROBENZENE	73.4	4.4	4.1	.3
	1,3-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,4-DICHLOROBENZENE	9.4	2.6	1.5	1.1
	FLUORANTHENE	N-D	.1	N-D	.1
	ISOPHORONE	N-D	2.0	2.0	N-D
	NAPHTHALENE	35.3	1.1	N-D	1.1
	BIS(2-ETHYLHEXYL) PHTHALATE	21.5	29.0	7.9	21.1
	BUTYL BENZYL PHTHALATE	41.5	12.2	1.2	11.0
	DI-N-BUTYL PHTHALATE	12.3	4.4	4.3	L 0.1
	DIETHYL PHTHALATE	5.1	.5	.5	N-D
	DIMETHYL PHTHALATE	2.1	N-D	N-D	N-D
	1,2-BENZANTHRACENE	N-D	.1	N-D	.1
	3,4-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	11,12-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	CHRYSENE	N-D	.1	N-D	.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 4

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
BASE-NEUTRALS	ACENAPHTHYLENE	N-D	L 0.1	N-D	L 0.1
	ANTHRACENE	.2	.9	N-D	.9
	FLUORENE	N-D	L 0.1	N-D	L 0.1
	PHENANTHRENE	.2	.9	N-D	.9
	INDENO(1,2,3-C,D) PYRENE	.6	N-D	N-D	N-D
	PYRENE	N-D	.2	N-D	.2
PESTICIDES	DIELDRIN	L 0.1	N-D	N-D	N-D
	HEPTACHLOR	L 0.1	N-D	N-D	N-D
	ALPHA-BHC	N-D	L 0.1	L 0.1	N-D
	GAMMA-BHC	L 0.1	.1	.1	N-D
METALS	ANTIMONY	N-D	.3	N-D	.3
	ARSENIC	N-D	.8	N-D	.8
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	1.6	1.9	.3	1.6
	CHROMIUM	56.0	84.9	20.3	64.6
	COPPER	32.4	50.1	11.8	38.3
	CYANIDE	25.6	9.1	8.1	1.0
	LEAD	88.3	160	36.7	123
	MERCURY	.9	1.5	.3	1.2
	NICKEL	14.2	12.7	5.0	7.7
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	12.2	8.2	2.3	5.9
	ZINC	344	585	156	429
NON-CONV. METALS	ALUMINUM	1715	-	407	NOT RUN
	BARIUM	92.3	-	22.7	NOT RUN
	CALCIUM	11268	-	25207	NOT RUN
	IRON	5129	-	1648	NOT RUN
	MAGNESIUM	1975	-	1394	NOT RUN
	MANGANESE	441	-	125	NOT RUN
	SODIUM	22071	-	20444	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D NOT DETECTED; L LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 5

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	38176	9017	3450	5567
	TOTAL SUSP. SOLIDS	40568	33863	3358	30505
	COD	103260	41095	18858	22237
	OIL & GREASE	9107	5493	690	4803
NON-CONVENTIONALS	TOTAL PHENOLS	8.3	2.7	2.2	.5
	TOTAL SOLIDS	245340	224091	191893	32198
	TOTAL DISS. SOLIDS	204772	190311	188535	1776
	TOTAL VOLATILE SOLIDS	132467	102668	102386	282
	VOLATILE DISS. SOLIDS	99350	99885	99258	627
	TOTAL VOL. SUS. SOLIDS	33117	17709	3082	14627
	AMMONIA NITROGEN	3312	2757	2024	733
	TOC	17570	6140	3910	2230
VOLATILES	BENZENE	1.5	.1	.1	L 0.1
	CHLOROBENZENE	L 0.1	.1	.1	L 0.1
	1,1,1-TRICHLOROETHANE	5.2	.8	.8	L 0.1
	1,1,2,2-TETRACHLOROETHANE	.3	L 0.1	N-D	L 0.1
	2-CHLOROETHYL VINYL ETHER	N-D	L 0.1	N-D	L 0.1
	CHLOROFORM	3.3	2.0	2.0	L 0.1
	1,1-DICHLOROETHYLENE	L 0.1	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	.6	L 0.1	N-D	L 0.1
	1,2-DICHLOROPROPANE	L 0.1	N-D	N-D	N-D
	1,3-DICHLOROPROPYLENE	1.1	N-D	N-D	N-D
	ETHYLBENZENE	2.9	.2	.1	.1
	METHYLENE CHLORIDE	187	129	129	L 0.1
	METHYL CHLORIDE	N-D	L 0.1	N-D	L 0.1
	DICHLOROBROMOMETHANE	.7	.6	.6	N-D
	CHLORODIBROMOMETHANE	.2	.2	.2	L 0.1
	TETRACHLOROETHYLENE	31.8	7.1	7.1	N-D
	TOLUENE	10.2	.3	L 0.1	.2
	TRICHLOROETHYLENE	13.6	3.9	3.9	L 0.1
	VINYL CHLORIDE	N-D	.2	N-D	.2
ACID EXTRACT	2,4-DICHLOROPHENOL	N-D	L 0.1	N-D	L 0.1
	2,4-DIMETHYLPHENOL	L 0.1	N-D	N-D	N-D
	PENTACHLOROPHENOL	N-D	L 0.1	N-D	L 0.1
	PHENOL	.2	.1	L 0.1	L 0.1
BASE-NEUTRALS	ACENAPHTHENE	N-D	L 0.1	N-D	L 0.1
	1,4-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	NAPHTHALENE	.9	L 0.1	N-D	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	7.6	9.0	1.7	7.3
	BUTYL BENZYL PHTHALATE	1.6	.3	N-D	.3
	DI-N-BUTYL PHTHALATE	.8	N-D	N-D	N-D
	DI-N-OCTYL PHTHALATE	N-D	L 0.1	N-D	L 0.1
	DIETHYL PHTHALATE	.5	N-D	N-D	N-D
	ANTHRACENE	N-D	.2	N-D	.2
	PHENANTHRENE	N-D	.2	N-D	.2
	PYRENE	N-D	L 0.1	N-D	L 0.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 5

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
PESTICIDES	BETA-BHC	N-D	L 0.1	L 0.1	N-D
	GAMMA-BHC	N-D	L 0.1	L 0.1	N-D
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1
	ARSENIC	N-D	.1	N-D	.1
	BERYLLIUM	.3	L 0.1	N-D	L 0.1
	CADMIUM	1.6	.7	.2	.5
	CHROMIUM	28.2	23.2	9.6	13.6
	COPPER	19.3	13.4	8.6	4.8
	CYANIDE	3.2	1.3	1.3	L 0.1
	LEAD	18.6	17.1	1.1	16.0
	NICKEL	3.2	2.2	N-D	2.2
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	6.4	1.8	.4	1.4
	ZINC	68.3	60.4	18.1	42.3
NON-CONV. METALS	ALUMINUM	225	-	42.8	NOT RUN
	BARIUM	27.7	-	14.8	NOT RUN
	CALCIUM	20284	-	19226	NOT RUN
	IRON	329	-	75.5	NOT RUN
	MAGNESIUM	7589	-	7313	NOT RUN
	MANGANESE	64.7	-	56.1	NOT RUN
	SODIUM	24562	-	24056	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 6

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	15577	5298	1086	4212
	TOTAL SUSP. SOLIDS	37411	13514	1579	11935
	COD	53541	20701	7759	12942
	OIL & GREASE	3208	1622	385	1237
NON-CONVENTIONALS	TOTAL PHENOLS	18.3	4.1	2.2	1.9
	TOTAL SOLIDS	81140	52725	40422	12303
	TOTAL DISS. SOLIDS	40126	38525	38240	285
	TOTAL VOLATILE SOLIDS	40126	17210	7798	9412
	VOLATILE DISS. SOLIDS	9526	7062	6929	133
	TOTAL VOL. SUS. SOLIDS	31390	10612	1303	9309
	AMMONIA NITROGEN	1165	857	711	146
	TOC	23128	8753	2349	6404
VOLATILES	BENZENE	L 0.1	L 0.1	L 0.1	L 0.1
	CHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,2-DICHLOROETHANE	.6	L 0.1	L 0.1	N-D
	1,1,1-TRICHLOROETHANE	24.7	2.8	2.8	N-D
	1,1-DICHLOROETHANE	.5	L 0.1	L 0.1	N-D
	1,1,2-TRICHLOROETHANE	L 0.1	N-D	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	CHLOROETHANE	N-D	.4	N-D	.4
	CHLOROFORM	.3	.2	.2	N-D
	1,1-DICHLOROETHYLENE	2.5	L 0.1	L 0.1	N-D
	1,2-TRANS-DICHLOROETHYLENE	2.1	.4	.4	L 0.1
	ETHYLBENZENE	L 0.1	L 0.1	N-D	L 0.1
	METHYLENE CHLORIDE	1.9	1.4	1.4	L 0.1
	METHYL CHLORIDE	2.0	N-D	N-D	N-D
	DICHLOROBROMOMETHANE	L 0.1	L 0.1	L 0.1	N-D
	TRICHLOROFLUOROMETHANE	.3	.4	.4	N-D
	TETRACHLOROETHYLENE	.6	L 0.1	L 0.1	L 0.1
	TOLUENE	11.3	1.3	1.2	.1
	TRICHLOROETHYLENE	28.8	3.8	3.8	L 0.1
	VINYL CHLORIDE	101	14.4	6.0	8.4
ACID EXTRACT	PARACHLOROMETA CRESOL	.5	L 0.1	L 0.1	N-D
	2,4-DICHLOROPHENOL	L 0.1	N-D	N-D	N-D
	PENTACHLOROPHENOL	.9	L 0.1	L 0.1	N-D
	PHENOL	L 0.1	.5	L 0.1	.5
BASE-NEUTRALS	ACENAPHTHENE	L 0.1	L 0.1	L 0.1	N-D
	1,3-DICHLOROBENZENE	.1	N-D	N-D	N-D
	1,4-DICHLOROBENZENE	L 0.1	N-D	N-D	N-D
	2,4-DINITROTOLUENE	L 0.1	L 0.1	L 0.1	N-D
	NAPHTHALENE	L 0.1	N-D	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	3.8	1.6	.6	1.0
	BUTYL BENZYL PHTHALATE	N-D	L 0.1	L 0.1	N-D
	DI-N-BUTYL PHTHALATE	2.3	.6	.6	N-D
	DIETHYL PHTHALATE	.9	.1	.1	N-D
	1,2-BENZANTHRACENE	N-D	L 0.1	L 0.1	L 0.1
	CHRYSENE	N-D	L 0.1	L 0.1	L 0.1
	ANTHRACENE	3.1	.8	.6	.2

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

N-D NOT DETECTED L LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 6

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
BASE-NEUTRALS	1,12-BENZOPERYLENE	.3	L 0.1	L 0.1	N-D
	FLUORENE	N-D	L 0.1	L 0.1	N-D
	PHENANTHRENE	3.1	.8	.6	.2
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1
	ARSENIC	N-D	L 0.1	N-D	L 0.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	63.7	23.8	3.8	20.0
	CHROMIUM	82.3	22.2	3.7	18.5
	COPPER	45.0	14.3	2.8	11.5
	CYANIDE	5.9	27.4	23.0	4.4
	LEAD	11.8	3.5	1.1	2.4
	MERCURY	.2	.1	L 0.1	.1
	NICKEL	41.5	21.8	17.4	4.4
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	.9	.4	.2	.2
	ZINC	292	119	28.1	91.2
NON-CONV. METALS	ALUMINUM	141	-	7.9	NOT RUN
	BARIUM	17.9	-	1.8	NOT RUN
	CALCIUM	3307	-	2744	NOT RUN
	IRON	436	-	25.0	NOT RUN
	MAGNESIUM	888	-	770	NOT RUN
	MANGANESE	16.9	-	8.9	NOT RUN
	SODIUM	8371	-	7917	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 7

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	68374	59965	11629	48336
	TOTAL SUSP. SOLIDS	54537	51030	7192	43838
	COD	132968	135755	39256	96499
	OIL & GREASE	16402	19771	3764	16007
NON-CONVENTIONALS	TOTAL PHENOLS	22.3	9.1	3.2	5.9
	TOTAL SOLIDS	349092	400427	342413	58014
	TOTAL DISS. SOLIDS	290775	351179	335221	15958
	TOTAL VOLATILE SOLIDS	133373	153078	114541	38537
	VOLATILE DISS. SOLIDS	91053	121726	109096	12630
	TOTAL VOL. SUS. SOLIDS	42320	30796	5445	25351
	AMMONIA NITROGEN	5062	6304	5445	859
	TOC	26189	23662	9612	14050
VOLATILES	BENZENE	.5	.8	N-D	.8
	CHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,1,1-TRICHLOROETHANE	19.7	2.7	2.7	N-D
	1,1-DICHLOROETHANE	.3	N-D	N-D	N-D
	CHLOROFORM	1.9	.5	.5	N-D
	1,2-TRANS-DICHLOROETHYLENE	.8	1.7	1.2	.5
	1,2-DICHLOROPROPANE	N-D	L 0.1	N-D	L 0.1
	1,3-DICHLOROPROPYLENE	N-D	L 0.1	N-D	L 0.1
	ETHYLBENZENE	8.8	.8	N-D	.8
	METHYLENE CHLORIDE	14.5	9.4	9.4	L 0.1
	TETRACHLOROETHYLENE	6.2	1.3	1.3	L 0.1
	TOLUENE	6.2	4.2	.3	3.9
	TRICHLOROETHYLENE	6.9	1.5	1.5	L 0.1
ACID EXTRACT	PHENOL	5.9	2.9	N-D	2.9
BASE-NEUTRALS	1,2-DICHLOROBENZENE	1.4	L 0.1	N-D	L 0.1
	1,4-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	NAPHTHALENE	3.4	L 0.1	N-D	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	87.7	53.2	36.3	16.9
	BUTYL BENZYL PHTHALATE	2.7	1.2	N-D	1.2
	DI-N-BUTYL PHTHALATE	1.0	.4	N-D	.4
	DIETHYL PHTHALATE	2.7	N-D	N-D	N-D
	1,2-BENZANTHRACENE	N-D	L 0.1	N-D	L 0.1
	CHRYSENE	N-D	L 0.1	N-D	L 0.1
	ANTHRACENE	N-D	.7	N-D	.7
	PHENANTHRENE	N-D	.7	N-D	.7
	PYRENE	N-D	L 0.1	N-D	L 0.1
PESTICIDES	HEPTACHLOR	.2	N-D	N-D	N-D
	HEPTACHLOR EPOXIDE	L 0.1	L 0.1	L 0.1	N-D
	GAMMA-BHC	.2	.2	.2	N-D
	DELTA-BHC	L 0.1	N-D	N-D	N-D
METALS	ANTIMONY	2.6	2.8	1.1	1.7
	ARSENIC	N-D	.3	N-D	.3
	BERYLLIUM	L 0.1	1.0	1.0	N-D

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 7

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
METALS	CADMIUM	2.0	2.7	2.2	.5
	CHROMIUM	117	114	20.8	93.3
	COPPER	90.1	74.5	15.6	58.9
	CYANIDE	16.8	10.2	9.7	.5
	LEAD	29.0	29.0	18.8	10.2
	MERCURY	.4	.6	.4	.2
	NICKEL	140	165	131	34.4
	SELENIUM	N-D	.2	N-D	.2
	SILVER	2.1	.6	.3	.3
	ZINC	250	208	43.5	165
NON-CONV. METALS	ALUMINUM	188	-	35.1	NOT RUN
	BARIUM	34.0	-	9.3	NOT RUN
	BORON	307	-	318	NOT RUN
	CALCIUM	29901	-	28904	NOT RUN
	COBALT	4.3	-	4.2	NOT RUN
	IRON	1402	-	164	NOT RUN
	MAGNESIUM	8032	-	7663	NOT RUN
	MANGANESE	24.9	-	24.2	NOT RUN
	MOLYBDENUM	6.7	-	6.0	NOT RUN
	SODIUM	52985	-	52364	NOT RUN
	TIN	9.2	-	5.3	NOT RUN
	TITANIUM	2.7	-	1.4	NOT RUN
	VANADIUM	57.5	-	53.2	NOT RUN
	YTTRIUM	1.3	-	1.1	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 8

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	45008	59897	7785	52112
	TOTAL SUSP. SOLIDS	38802	160046	12991	147055
	COD	103092	266297	39582	226715
	OIL & GREASE	21841	49567	2532	47035
NON-CONVENTIONALS	TOTAL PHENOLS	13.6	7.0	2.4	4.6
	TOTAL SOLIDS	175863	301720	139943	161777
	TOTAL DISS. SOLIDS	137061	133287	126953	6334
	TOTAL VOLATILE SOLIDS	85752	162718	60123	102595
	VOLATILE DISS. SOLIDS	58463	54763	50275	4488
	TOTAL VOL. SUS. SOLIDS	27289	95554	9849	85705
	AMMONIA NITROGEN	2937	5051	3799	1252
	TOC	22551	36164	9661	26503
VOLATILES	ACRYLONITRILE	N-D	L 0.1	N-D	L 0.1
	BENZENE	.3	1.4	1.4	L 0.1
	1,1,1-TRICHLOROETHANE	6.2	N-D	N-D	N-D
	1,1-DICHLOROETHANE	.2	L 0.1	N-D	L 0.1
	1,1,2-TRICHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	CHLOROETHANE	N-D	3.8	N-D	3.8
	CHLOROFORM	1.5	2.1	2.1	N-D
	1,2-TRANS-DICHLOROETHYLENE	N-D	2.4	N-D	2.4
	1,2-DICHLOROPROPANE	.2	L 0.1	N-D	L 0.1
	ETHYLBENZENE	2.8	1.0	.3	.7
	METHYLENE CHLORIDE	2.6	1.3	1.3	N-D
	DICHLORODIFLUOROMETHANE	N-D	.9	N-D	.9
	TETRACHLOROETHYLENE	4.9	L 0.1	L 0.1	L 0.1
	TOLUENE	43.3	68.7	54.1	14.6
	TRICHLOROETHYLENE	5.6	L 0.1	L 0.1	L 0.1
	VINYL CHLORIDE	N-D	.5	N-D	.5
ACID EXTRACT	2,4-DICHLOROPHENOL	L 0.1	L 0.1	L 0.1	N-D
	PENTACHLOROPHENOL	3.5	4.7	3.1	1.6
	PHENOL	1.6	1.3	L 0.1	1.2
BASE-NEUTRALS	ACENAPHTHENE	N-D	2.2	N-D	2.2
	HEXACHLOROBENZENE	N-D	.4	N-D	.4
	2-CHLORONAPHTHALENE	N-D	.8	N-D	.8
	1,2-DICHLOROBENZENE	N-D	.5	N-D	.5
	1,3-DICHLOROBENZENE	N-D	.9	N-D	.9
	1,4-DICHLOROBENZENE	L 0.1	.6	N-D	.6
	FLUORANTHENE	.2	1.1	N-D	1.1
	HEXACHLOROBUTADIENE	N-D	1.3	N-D	1.3
	NAPHTHALENE	2.3	2.2	N-D	2.2
	BIS(2-ETHYLHEXYL) PHTHALATE	6.3	21.4	1.3	20.1
	BUTYL BENZYL PHTHALATE	9.5	34.9	.8	34.1
	DI-N-BUTYL PHTHALATE	.3	2.7	.7	2.0
	DIETHYL PHTHALATE	.4	N-D	N-D	N-D
	DIMETHYL PHTHALATE	N-D	.3	N-D	.3
	1,2-BENZANTHRACENE	N-D	1.4	N-D	1.4
	CHRYSENE	N-D	1.4	N-D	1.4
	ANTHRACENE	.3	3.0	N-D	3.0

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 8

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
BASE-NEUTRALS	PHENANTHRENE	.3	3.0	N-D	3.0
	PYRENE	N-D	1.4	N-D	1.4
METALS	ANTIMONY	N-D	1.9	N-D	1.9
	ARSENIC	N-D	1.3	N-D	1.3
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	.1	.9	N-D	.9
	CHROMIUM	48.5	210	15.9	194
	COPPER	63.8	251	20.3	231
	CYANIDE	2.1	6.6	.8	5.8
	LEAD	62.4	205	15.9	189
	MERCURY	L 0.1	.3	N-D	.3
	NICKEL	80.9	159	44.2	115
	SELENIUM	N-D	5.1	4.8	.3
	SILVER	2.5	.5	.2	.3
	ZINC	326	1464	93.7	1370
NON-CONV. METALS	ALUMINUM	242	89.0	89.0	N-D
	BARIUM	102	34.7	34.7	N-D
	CALCIUM	10186	11021	11021	N-D
	IRON	1035	340	340	N-D
	MAGNESIUM	2748	2720	2720	N-D
	MANGANESE	35.9	28.5	28.5	N-D
	SODIUM	26484	26028	26028	N-D

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MASS BALANCE IN POUNDS PER DAY

PLANT 9

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	48790	12178	1999	4797	5382
	TOTAL SUSP. SOLIDS	64262	41907	6141	17455	18311
	COD	115066	56931	15423	21794	19714
	OIL & GREASE	15328	3892	2713	699	480
NON-CONVENTIONALS	TOTAL PHENOLS	28.8	4.4	3.0	.3	1.1
	TOTAL SOLIDS	196383	162633	125096	17967	19570
	TOTAL DISS. SOLIDS	100962	102454	100677	513	1264
	TOTAL VOLATILE SOLIDS	81892	55490	28275	13540	13675
	VOLATILE DISS. SOLIDS	23387	21836	21563	174	98.6
	TOTAL VOL. SUS. SOLIDS	56418	30941	3999	13366	13576
	AMMONIA NITROGEN	4102	1420	1285	45.5	89.4
	TOC	37276	14322	4998	4630	4694
VOLATILES	BENZENE	.3	1.9	1.9	L 0.1	N-D
	CARBON TETRACHLORIDE	.4	N-D	N-D	N-D	N-D
	CHLOROBENZENE	N-D	.2	.2	L 0.1	N-D
	1,1,1-TRICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	1,1-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	1,1,2-TRICHLOROETHANE	9.8	.4	.4	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	.4	L 0.1	N-D	L 0.1	N-D
	CHLOROETHANE	N-D	9.3	N-D	7.3	2.0
	CHLOROFORM	1.7	.7	.7	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	N-D	.3	N-D	.2	L 0.1
	1,2-DICHLOROPROPANE	N-D	L 0.1	N-D	L 0.1	N-D
	ETHYLBENZENE	.2	.4	.4	L 0.1	L 0.1
	METHYLENE CHLORIDE	2.2	L 0.1	N-D	L 0.1	N-D
	METHYL CHLORIDE	.8	1.6	1.0	.6	N-D
	METHYL BROMIDE	N-D	6.5	N-D	5.0	1.5
	TETRACHLOROETHYLENE	1.7	L 0.1	L 0.1	L 0.1	N-D
	TOLUENE	3.3	4.2	.1	.7	3.4
	TRICHLOROETHYLENE	14.3	L 0.1	N-D	L 0.1	L 0.1
	VINYL CHLORIDE	N-D	2.6	N-D	2.6	L 0.1
ACID EXTRACT	PARACHLOROMETA CRESOL	.8	N-D	N-D	N-D	N-D
	4,6-DINITRO-O-CRESOL	N-D	.1	.1	N-D	N-D
	PHENOL	.9	1.4	N-D	L 0.1	1.4
BASE-NEUTRALS	HEXACHLOROBENZENE	N-D	L 0.1	N-D	N-D	L 0.1
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	1.9	2.5	N-D	1.2	1.3
	BUTYL BENZYL PHTHALATE	N-D	.4	N-D	.3	.1
	DI-N-BUTYL PHTHALATE	5.4	6.7	6.7	L 0.1	L 0.1
	DIETHYL PHTHALATE	4.5	.9	.9	L 0.1	L 0.1
	DIMETHYL PHTHALATE	N-D	L 0.1	N-D	L 0.1	L 0.1
	1,2-BENZANTHRACENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	BENZO (A)PYRENE	N-D	L. 0.1	N-D	L 0.1	N-D
	11,12-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1	N-D
	CHRYSENE	N-D	L 0.1	N-D	N-D	L 0.1
	ANTHRACENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	PHENANTHRENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	PYRENE	N-D	L 0.1	N-D	L 0.1	L 0.1

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 9

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	ANTIMONY	L 0.1	.1	L 0.1	L 0.1	L 0.1
	ARSENIC	.9	1.0	.9	L 0.1	L 0.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1	N-D
	CADMIUM	1.4	1.4	.9	.1	.4
	CHROMIUM	23.7	12.7	1.4	3.2	8.1
	COPPER	30.1	27.7	11.1	5.2	11.4
	CYANIDE	35.3	26.2	11.4	13.5	1.3
	LEAD	39.2	16.4	7.1	2.7	6.6
	MERCURY	N-D	.2	N-D	L 0.1	.1
	NICKEL	16.3	15.5	10.9	2.1	2.5
	SELENIUM	.5	.5	.4	L 0.1	.1
	SILVER	4.7	1.3	.2	L 0.1	1.0
	ZINC	69.1	49.8	24.3	11.5	14.0
NON-CONV. METALS	ALUMINUM	249	-	42.1	NOT RUN	NOT RUN
	BARIUM	49.6	-	14.5	NOT RUN	NOT RUN
	BORON	62.8	-	56.0	NOT RUN	NOT RUN
	CALCIUM	12305	-	11424	NOT RUN	NOT RUN
	IRON	650	-	160	NOT RUN	NOT RUN
	MAGNESIUM	2950	-	2856	NOT RUN	NOT RUN
	MANGANESE	73.1	-	39.1	NOT RUN	NOT RUN
	MOLYBDENUM	N-D	-	2.9	NOT RUN	NOT RUN
	SODIUM	20005	-	19850	NOT RUN	NOT RUN
	TIN	8.6	-	N-D	NOT RUN	NOT RUN
	TITANIUM	11.6	-	2.4	NOT RUN	NOT RUN
	VANADIUM	1.5	-	.8	NOT RUN	NOT RUN

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MASS BALANCE IN POUNDS PER DAY

PLANT 10

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	TOTAL EFFLUENT	TOTAL SLUDGE
CONVENTIONALS	BOD	47166	-	3590	NOT RUN
	TOTAL SUSP. SOLIDS	43304	17437	2978	14459
	OIL & GREASE	14591	3649	3320	329
NON-CONVENTIONALS	TOTAL PHENOLS	12.4	9.5	8.9	.6
	TOTAL SOLIDS	165882	127364	110633	16731
	TOTAL DISS. SOLIDS	123514	109725	101369	8356
	TOTAL VOLATILE SOLIDS	54423	37416	25029	12387
	AMMONIA NITROGEN	4721	2642	2290	352
	TOC	22237	14354	7238	7116
VOLATILES	BENZENE	L 0.1	L 0.1	N-D	L 0.1
	CARBON TETRACHLORIDE	L 0.1	N-D	N-D	N-D
	CHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,1,1-TRICHLOROETHANE	.6	N-D	N-D	N-D
	1,1-DICHLOROETHANE	.2	N-D	N-D	N-D
	CHLOROETHANE	L 0.1	.1	N-D	.1
	CHLOROFORM	1.8	.2	.2	L 0.1
	1,2-TRANS-DICHLOROETHYLENE	N-D	.4	N-D	.4
	1,2-DICHLOROPROPANE	L 0.1	L 0.1	N-D	L 0.1
	ETHYLBENZENE	.8	L 0.1	N-D	L 0.1
	METHYLENE CHLORIDE	15.7	10.2	10.2	N-D
	METHYL CHLORIDE	9.7	.5	.5	L 0.1
	METHYL BROMIDE	N-D	.2	N-D	.2
	DICHLOROBROMOMETHANE	N-D	L 0.1	N-D	L 0.1
	TETRACHLOROETHYLENE	.9	.7	.7	N-D
	TOLUENE	2.4	2.9	L 0.1	2.9
	TRICHLOROETHYLENE	10.9	L 0.1	N-D	L 0.1
	VINYL CHLORIDE	N-D	L 0.1	L 0.1	L 0.1
ACID EXTRACT	PHENOL	1.7	1.5	L 0.1	1.5
BASE-NEUTRALS	ACENAPHTHENE	N-D	L 0.1	N-D	L 0.1
	1,2,4-TRICHLOROBENZENE	.2	N-D	N-D	N-D
	1,2-DICHLOROBENZENE	.5	N-D	N-D	N-D
	1,3-DICHLOROBENZENE	.2	N-D	N-D	N-D
	1,4-DICHLOROBENZENE	.6	N-D	N-D	N-D
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	NAPHTHALENE	.5	L 0.1	N-D	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	16.7	4.2	1.7	2.5
	BUTYL BENZYL PHTHALATE	.7	.1	N-D	.1
	DI-N-BUTYL PHTHALATE	.9	1.2	1.2	L 0.1
	DIETHYL PHTHALATE	.6	L 0.1	N-D	L 0.1
	1,2-BENZANTHRACENE	N-D	L 0.1	N-D	L 0.1
	CHRYSENE	N-D	L 0.1	N-D	L 0.1
	ANTHRACENE	N-D	.3	N-D	.3
	FLUORENE	N-D	L 0.1	N-D	L 0.1
	PHENANTHRENE	N-D	.3	N-D	.3
	PYRENE	N-D	L 0.1	N-D	L 0.1
PESTICIDES	DIELDRIN	N-D	L 0.1	L 0.1	N-D
	4,4'-DDD	N-D	L 0.1	L 0.1	N-D

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MASS BALANCE IN POUNDS PER DAY

PLANT 10

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	TOTAL EFFLUENT	TOTAL SLUDGE
PESTICIDES	BETA-BHC	N-D	L 0.1	L 0.1	N-D
	GAMMA-BHC	L 0.1	L 0.1	L 0.1	N-D
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1
	ARSENIC	N-D	L 0.1	N-D	L 0.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	.5	1.1	.5	.6
	CHROMIUM	3.2	10.3	4.7	5.6
	COPPER	14.0	12.9	2.1	10.8
	CYANIDE	160	58.4	32.2	26.2
	LEAD	6.6	5.4	.2	5.2
	MERCURY	.1	L 0.1	L 0.1	L 0.1
	NICKEL	.7	7.0	5.4	1.6
	SELENIUM	N-D	.2	N-D	.2
	SILVER	1.6	.9	.3	.6
	ZINC	40.6	41.1	13.3	27.8
NON-CONV. METALS	ALUMINUM	190	-	22.8	NOT RUN
	BARIUM	15.2	-	3.4	NOT RUN
	CALCIUM	7835	-	6778	NOT RUN
	IRON	139	-	22.9	NOT RUN
	MAGNESIUM	4096	-	2962	NOT RUN
	MANGANESE	19.1	-	18.3	NOT RUN
	SODIUM	21197	-	16483	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 11

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	31622	14121	8568	5553
	TOTAL SUSP. SOLIDS	54841	-	4529	NOT RUN
	OIL & GREASE	21113	3171	2398	773
NON-CONVENTIONALS	TOTAL PHENOLS	93.5	21.9	21.6	.3
	TOTAL SOLIDS	423224	408256	372670	35586
	TOTAL DISS. SOLIDS	361488	-	354500	NOT RUN
	TOTAL VOLATILE SOLIDS	93592	90967	64740	26227
	AMMONIA NITROGEN	5666	3088	3037	50.6
	TOC	23198	18312	9538	8774
VOLATILES	BENZENE	10.7	.6	.2	.4
	CHLOROBENZENE	N-D	.1	N-D	.1
	1,1,1-TRICHLOROETHANE	54.4	3.9	3.9	N-D
	1,1-DICHLOROETHANE	1.9	.3	.1	.2
	CHLOROETHANE	N-D	.5	N-D	.5
	CHLOROFORM	1.4	.4	.4	N-D
	1,2-TRANS-DICHLOROETHYLENE	1.6	.8	L 0.1	.7
	ETHYLBENZENE	3.3	.5	.3	.2
	METHYLENE CHLORIDE	28.9	7.8	6.7	1.1
	METHYL CHLORIDE	N-D	L 0.1	N-D	L 0.1
	TRICHLOROFLUOROMETHANE	N-D	L 0.1	N-D	L 0.1
	TETRACHLOROETHYLENE	17.6	2.3	2.3	L 0.1
	TOLUENE	16.0	1.0	.5	.5
	TRICHLOROETHYLENE	23.5	1.0	1.0	L 0.1
ACID EXTRACT	2,4-DIMETHYLPHENOL	.5	N-D	N-D	N-D
	PHENOL	4.7	.2	N-D	.2
BASE-NEUTRALS	ACENAPHTHENE	N-D	.2	N-D	.2
	HEXACHLOROBENZENE	1.1	.9	.9	N-D
	1,2-DICHLOROBENZENE	N-D	L 0.1	L 0.1	N-D
	NAPHTHALENE	1.1	L 0.1	N-D	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	16.6	22.7	18.8	3.9
	BUTYL BENZYL PHTHALATE	.2	.2	N-D	.2
	DI-N-BUTYL PHTHALATE	1.4	.5	.5	L 0.1
	DIETHYL PHTHALATE	.6	.2	.2	N-D
	1,2-BENZANTHRACENE	N-D	L 0.1	N-D	L 0.1
	CHRYSENE	N-D	L 0.1	N-D	L 0.1
	ANTHRACENE	2.5	.3	N-D	.3
	PHENANTHRENE	2.5	.3	N-D	.3
PESTICIDES	ALDRIN	.5	.4	.4	N-D
	ALPHA-BHC	.2	N-D	N-D	N-D
	BETA-BHC	L 0.1	N-D	N-D	N-D
METALS	ANTIMONY	.4	1.1	1.0	L 0.1
	ARSENIC	9.2	10.4	10.2	.2
	CADMIUM	2.7	3.0	2.5	.5
	CHROMIUM	48.8	44.1	14.2	29.9
	COPPER	78.5	67.7	19.8	47.9
	CYANIDE	229	277	98.4	179

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 11

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
METALS	LEAD	50.8	48.9	40.5	8.4
	MERCURY	.2	.4	L 0.1	.3
	NICKEL	20.5	19.5	15.6	3.9
	SELENIUM	1.1	1.0	.9	.1
	SILVER	6.1	2.7	2.2	.5
	ZINC	62.9	71.9	31.0	40.9
NON-CONV. METALS	ALUMINUM	290	-	100	NOT RUN
	BARIUM	57.1	-	17.1	NOT RUN
	BORON	71.4	-	80.6	NOT RUN
	CALCIUM	28863	-	25843	NOT RUN
	COBALT	28.1	-	37.7	NOT RUN
	IRON	308	-	68.7	NOT RUN
	MAGNESIUM	11599	-	28507	NOT RUN
	MANGANESE	16.8	-	12.6	NOT RUN
	MOLYBDENUM	22.1	-	28.7	NOT RUN
	SODIUM	66814	-	65220	NOT RUN
	TIN	33.4	-	26.6	NOT RUN
	TITANIUM	4.5	-	1.7	NOT RUN
	VANADIUM	2.8	-	2.8	NOT RUN
	YTTRIUM	.2	-	6.9	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 12

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	32680	13669	2897	4795	5977
	TOTAL SUSP. SOLIDS	55682	47390	4269	22091	21030
	COD	116151	85132	32726	23857	28549
	OIL & GREASE	14259	-	2693	NOT RUN	NOT RUN
NON-CONVENTIONALS	TOTAL PHENOLS	87.7	66.8	64.2	1.8	.8
	TOTAL SOLIDS	329510	297795	254543	22159	21093
	TOTAL DISS. SOLIDS	259091	-	247734	26654	NOT RUN
	TOTAL VOLATILE SOLIDS	99186	89981	60269	14798	14914
	VOLATILE DISS. SOLIDS	59949	-	56041	12660	NOT RUN
	TOTAL VOL. SUS. SOLIDS	28049	29754	2693	15244	11817
	AMMONIA NITROGEN	5620	4024	3811	157	56.4
	TOC	18474	11701	5234	2541	3926
VOLATILES	BENZENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	CHLOROBENZENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	1,2-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	1,1,1-TRICHLOROETHANE	19.8	3.0	3.0	L 0.1	N-D
	1,1-DICHLOROETHANE	.2	.1	N-D	.1	L 0.1
	1,1,2-TRICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	1,1,2,2-TETRACHLOROETHANE	N-D	L 0.1	N-D	N-D	L 0.1
	CHLOROETHANE	.3	L 0.1	N-D	L 0.1	N-D
	CHLOROFORM	.9	.3	.3	N-D	L 0.1
	1,2-TRANS-DICHLOROETHYLENE	.5	1.5	N-D	1.5	L 0.1
	1,2-DICHLOROPROPANE	N-D	L 0.1	N-D	L 0.1	N-D
	ETHYLBENZENE	3.2	.1	N-D	.1	N-D
	METHYLENE CHLORIDE	12.7	6.8	6.7	L 0.1	L 0.1
	METHYL CHLORIDE	N-D	L 0.1	N-D	L 0.1	N-D
	TRICHLOROFLUOROMETHANE	N-D	L 0.1	N-D	L 0.1	L 0.1
	DICHLORODIFLUOROMETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	TETRACHLOROETHYLENE	9.6	2.4	2.4	N-D	N-D
	TOLUENE	7.3	37.0	2.2	.6	34.2
	TRICHLOROETHYLENE	31.2	8.4	8.4	L 0.1	N-D
	VINYL CHLORIDE	N-D	.8	N-D	L 0.1	.7
ACID EXTRACT	2-CHLOROPHENOL	.1	N-D	N-D	N-D	N-D
	PHENOL	1.5	.9	N-D	N-D	.9
BASE-NEUTRALS	1,2-DIPHENYLHYDRAZINE	.5	N-D	N-D	N-D	N-D
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	NAPHTHALENE	.5	L 0.1	N-D	L 0.1	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	6.1	7.3	2.9	2.1	2.3
	BUTYL BENZYL PHTHALATE	N-D	L 0.1	N-D	L 0.1	N-D
	DI-N-BUTYL PHTHALATE	N-D	L 0.1	N-D	L 0.1	L 0.1
	DIETHYL PHTHALATE	N-D	.2	N-D	L 0.1	.1
	1,2-BENZANTHRACENE	N-D	L 0.1	N-D	N-D	L 0.1
	CHRYSENE	N-D	L 0.1	N-D	N-D	L 0.1
	ANTHRACENE	N-D	.2	N-D	.2	L 0.1
	PHENANTHRENE	N-D	.2	N-D	.2	L 0.1
	PYRENE	N-D	.2	N-D	L 0.1	L 0.1
PESTICIDES	ALPHA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 12

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
PESTICIDES	GAMMA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D
METALS	ANTIMONY	45.3	21.3	12.7	5.6	3.0
	ARSENIC	N-D	L 0.1	N-D	L 0.1	L 0.1
	CADMIUM	54.3	30.5	4.5	4.8	21.2
	CHROMIUM	129	92.8	14.5	16.1	62.2
	COPPER	288	153	26.3	30.9	95.9
	CYANIDE	278	137	114	14.7	7.9
	LEAD	18.1	10.7	1.1	5.1	4.5
	MERCURY	.2	L 0.1	N-D	L 0.1	L 0.1
	NICKEL	51.1	47.1	36.8	3.4	6.9
	SELENIUM	N-D	.2	N-D	L 0.1	L 0.1
	SILVER	1.3	.8	N-D	.4	.4
	THALLIUM	N-D	.1	N-D	L 0.1	L 0.1
	ZINC	504	292	81.5	60.4	150
NON-CONV. METALS	ALUMINUM	114	-	11.0	NOT RUN	NOT RUN
	BARIUM	76.1	-	28.7	NOT RUN	NOT RUN
	CALCIUM	26124	-	23122	NOT RUN	NOT RUN
	IRON	902	-	78.5	NOT RUN	NOT RUN
	MAGNESIUM	10096	-	9706	NOT RUN	NOT RUN
	MANGANESE	34.1	-	23.3	NOT RUN	NOT RUN
	SODIUM	45170	-	42788	NOT RUN	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 13

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	8731	52213	1753	3553	46907
	TOTAL SUSP. SOLIDS	18985	213938	1602	15827	196509
	COD	33573	182217	5833	22435	153949
	OIL & GREASE	4609	7865	1841	1760	4264
NON-CONVENTIONALS	TOTAL PHENOLS	24.5	11.2	8.1	.8	2.3
	TOTAL SOLIDS	112959	302170	88265	24394	189511
	TOTAL DISS. SOLIDS	89577	-	83006	5206	NOT RUN
	TOTAL VOLATILE SOLIDS	29112	131031	14721	11721	104589
	VOLATILE DISS. SOLIDS	24588	-	15557	1562	NOT RUN
	TOTAL VOL. SUS. SOLIDS	13319	51370	861	9371	41138
	AMMONIA NITROGEN	2114	329	179	63.8	86.4
	TOC	6194	29778	1016	3526	25236
VOLATILES	BENZENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	1,1,1-TRICHLOROETHANE	L 0.1	N-D	N-D	N-D	N-D
	CHLOROFORM	.9	.1	.1	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	ETHYLBENZENE	.3	L 0.1	N-D	L 0.1	N-D
	METHYLENE CHLORIDE	.3	.2	L 0.1	L 0.1	.2
	TRICHLOROFLUOROMETHANE	N-D	.1	N-D	L 0.1	.1
	TETRACHLOROETHYLENE	1.3	L 0.1	L 0.1	N-D	N-D
	TOLUENE	1.3	69.5	N-D	3.7	65.8
	TRICHLOROETHYLENE	.8	N-D	N-D	N-D	N-D
ACID EXTRACT	2,4-DINITROPHENOL	.1	N-D	N-D	N-D	N-D
	PENTACHLOROPHENOL	.4	L 0.1	L 0.1	N-D	N-D
	PHENOL	L 0.1	2.3	L 0.1	.3	2.0
BASE-NEUTRALS	FLUORANTHENE	N-D	.2	N-D	L 0.1	.2
	NAPHTHALENE	N-D	.3	N-D	L 0.1	.3
	BIS(2-ETHYLHEXYL) PHTHALATE	1.5	14.0	1.1	1.3	11.6
	BUTYL BENZYL PHTHALATE	N-D	2.0	N-D	.1	1.9
	DI-N-BUTYL PHTHALATE	.3	.5	.3	L 0.1	.1
	DIETHYL PHTHALATE	N-D	L 0.1	N-D	N-D	L 0.1
	1,2-BENZANTHRACENE	N-D	L 0.1	N-D	L 0.1	N-D
	11,12-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1	N-D
	CHRYSENE	N-D	L 0.1	N-D	L 0.1	N-D
	ANTHRACENE	N-D	1.1	N-D	L 0.1	1.0
	FLUORENE	N-D	L 0.1	N-D	L 0.1	N-D
	PHENANTHRENE	N-D	1.1	N-D	L 0.1	1.0
	PYRENE	N-D	.3	N-D	L 0.1	.2
PESTICIDES	GAMMA-BHC	N-D	L 0.1	L 0.1	N-D	N-D
	PCB-1242	3.2	L 0.1	L 0.1	N-D	N-D
	PCB-1254	.2	N-D	N-D	N-D	N-D
METALS	ANTIMONY	N-D	.2	N-D	L 0.1	.2
	ARSENIC	N-D	1.5	N-D	.2	1.3
	CADMIUM	N-D	1.2	N-D	.1	1.1
	CHROMIUM	6.9	73.8	.4	9.3	64.1
	COPPER	14.8	119	2.8	13.8	102

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MASS BALANCE IN POUNDS PER DAY

PLANT 13

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	CYANIDE	269	271	26.7	43.4	201
	LEAD	7.3	83.2	N-D	10.8	72.4
	MERCURY	L 0.1	.2	N-D	L 0.1	.2
	NICKEL	N-D	17.1	N-D	2.5	14.6
	SELENIUM	N-D	.3	N-D	L 0.1	.3
	SILVER	1.2	6.4	N-D	.1	6.3
	THALLIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	ZINC	29.5	361	3.6	44.4	313
NON-CONV. METALS	ALUMINUM	325	-	21.8	NOT RUN	NOT RUN
	BARIUM	16.4	-	5.8	NOT RUN	NOT RUN
	CALCIUM	11142	-	9601	NOT RUN	NOT RUN
	IRON	281	-	13.5	NOT RUN	NOT RUN
	MAGNESIUM	4249	-	3765	NOT RUN	NOT RUN
	MANGANESE	17.5	-	13.7	NOT RUN	NOT RUN
	SODIUM	7844	-	7052	NOT RUN	NOT RUN

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MASS BALANCE IN POUNDS PER DAY

PLANT 14

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	26151	8354	1232	7122
	TOTAL SUSP. SOLIDS	17682	-	847	NOT RUN
	COD	53356	34873	5605	29268
	OIL & GREASE	2885	2006	801	1205
NON-CONVENTIONALS	TOTAL PHENOLS	11.6	4.1	3.1	1.0
	TOTAL SOLIDS	73628	71723	46352	25371
	TOTAL DISS. SOLIDS	58816	-	46722	NOT RUN
	TOTAL VOLATILE SOLIDS	30013	23142	9625	13517
	VOLATILE DISS. SOLIDS	11478	-	6237	NOT RUN
	TOTAL VOL. SUS. SOLIDS	14502	-	554	NOT RUN
	AMMONIA NITROGEN	682	551	493	57.5
	TOC	20629	11412	4651	6761
VOLATILES	BENZENE	.9	.3	.3	N-D
	CARBON TETRACHLORIDE	.9	N-D	N-D	N-D
	1,1,1-TRICHLOROETHANE	6.9	L 0.1	L 0.1	N-D
	CHLOROFORM	2.5	1.1	1.1	N-D
	1,1-DICHLOROETHYLENE	1.2	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	.4	L 0.1	N-D	L 0.1
	1,2-DICHLOROPROPANE	L 0.1	N-D	N-D	N-D
	ETHYLBENZENE	2.1	.2	N-D	.2
	METHYLENE CHLORIDE	192	4.3	4.2	L 0.1
	METHYL CHLORIDE	.6	1.8	1.8	N-D
	TRICHLOROFLUOROMETHANE	N-D	L 0.1	N-D	L 0.1
	TETRACHLOROETHYLENE	2.3	L 0.1	L 0.1	N-D
	TOLUENE	6.8	18.0	L 0.1	17.9
	TRICHLOROETHYLENE	6.8	L 0.1	L 0.1	N-D
ACID EXTRACT	2,4-DICHLOROPHENOL	L 0.1	N-D	N-D	N-D
	PHENOL	.5	1.0	N-D	1.0
BASE-NEUTRALS	2,4-DINITROTOLUENE	L 0.1	N-D	N-D	N-D
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	NAPHTHALENE	L 0.1	N-D	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	.9	9.4	7.6	1.8
	BUTYL BENZYL PHTHALATE	L 0.1	N-D	N-D	N-D
	DI-N-BUTYL PHTHALATE	.9	.3	.3	L 0.1
	DIETHYL PHTHALATE	L 0.1	N-D	N-D	N-D
	ANTHRACENE	L 0.1	L 0.1	N-D	L 0.1
	PHENANTHRENE	L 0.1	L 0.1	N-D	L 0.1
	PYRENE	N-D	L 0.1	N-D	L 0.1
METALS	ANTIMONY	.5	.3	.2	L 0.1
	ARSENIC	.4	.2	L 0.1	L 0.1
	BERYLLIUM	N-D	L 0.1	L 0.1	N-D
	CADMIUM	N-D	.2	N-D	.2
	CHROMIUM	14.5	23.8	1.8	22.0
	COPPER	27.0	24.1	2.6	21.5
	CYANIDE	31.3	42.5	14.7	27.8
	LEAD	.7	5.8	1.0	4.8
	MERCURY	L 0.1	L 0.1	N-D	L 0.1

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MASS BALANCE IN POUNDS PER DAY

PLANT 14

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
METALS	NICKEL	36.6	45.0	24.6	20.4
	SELENIUM	L 0.1	L 0.1	N-D	L 0.1
	SILVER	.7	.2	L 0.1	.2
	THALLIUM	L 0.1	L 0.1	N-D	L 0.1
	ZINC	74.3	108	8.3	99.8
NON-CONV. METALS	ALUMINUM	140	-	19.7	NOT RUN
	BARIUM	10.5	-	1.4	NOT RUN
	BORON	53.1	-	34.0	NOT RUN
	CALCIUM	5398	-	5020	NOT RUN
	COBALT	9.5	-	11.4	NOT RUN
	IRON	469	-	39.5	NOT RUN
	MAGNESIUM	1458	-	1355	NOT RUN
	MANGANESE	21.5	-	15.1	NOT RUN
	MOLYBDENUM	5.3	-	2.9	NOT RUN
	SODIUM	8484	-	8085	NOT RUN
	TIN	7.3	-	3.4	NOT RUN
	TITANIUM	16.4	-	2.1	NOT RUN
	VANADIUM	.8	-	.7	NOT RUN
	YTTRIUM	.4	-	.3	NOT RUN

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N-D=NOT DETECTED L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 15

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	6306	2834	721	2113
	TOTAL SUSP. SOLIDS	7202	11610	1059	10551
	COD	13819	11951	4709	7242
	OIL & GREASE	1947	625	246	379
NON-CONVENTIONALS	TOTAL PHENOLS	11.7	5.3	5.1	.2
	TOTAL SOLIDS	24941	25049	20049	5000
	TOTAL DISS. SOLIDS	12514	-	15906	NOT RUN
	TOTAL VOLATILE SOLIDS	8344	10026	6935	3091
	VOLATILE DISS. SOLIDS	3784	-	1478	NOT RUN
	TOTAL VOL. SUS. SOLIDS	4954	6730	621	6109
	AMMONIA NITROGEN	576	459	456	3.2
	TOC	8984	4774	4070	704
VOLATILES	BENZENE	.1	L 0.1	N-D	L 0.1
	1,2-DICHLOROETHANE	L 0.1	N-D	N-D	N-D
	1,1,1-TRICHLOROETHANE	5.5	.2	.2	N-D
	1,1-DICHLOROETHANE	L 0.1	L 0.1	N-D	L 0.1
	CHLOROFORM	.4	L 0.1	L 0.1	N-D
	1,1-DICHLOROETHYLENE	L 0.1	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	L 0.1	L 0.1	N-D	L 0.1
	1,2-DICHLOROPROPANE	L 0.1	N-D	N-D	N-D
	ETHYLBENZENE	.1	L 0.1	N-D	L 0.1
	METHYLENE CHLORIDE	.3	.1	.1	L 0.1
	TETRACHLOROETHYLENE	.6	.1	.1	L 0.1
	TOLUENE	.2	.1	L 0.1	L 0.1
	TRICHLOROETHYLENE	.1	L 0.1	N-D	L 0.1
ACID EXTRACT	PENTACHLOROPHENOL	.3	N-D	N-D	N-D
	PHENOL	.1	L 0.1	L 0.1	N-D
BASE-NEUTRALS	HEXACHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	.8	.8	.4	.4
	BUTYL BENZYL PHTHALATE	.1	L 0.1	N-D	L 0.1
	DI-N-BUTYL PHTHALATE	.3	.1	.1	L 0.1
	DIETHYL PHTHALATE	.2	N-D	N-D	N-D
	11,12-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	ANTHRACENE	N-D	L 0.1	N-D	L 0.1
	PHENANTHRENE	N-D	L 0.1	N-D	L 0.1
	PYRENE	N-D	L 0.1	N-D	L 0.1
PESTICIDES	DIELDRIN	L 0.1	N-D	N-D	N-D
	HEPTACHLOR	N-D	L 0.1	L 0.1	N-D
	GAMMA-BHC	L 0.1	L 0.1	L 0.1	N-D
	PCB-1242	.2	L 0.1	L 0.1	N-D
	PCB-1254	N-D	L 0.1	L 0.1	N-D
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1
	ARSENIC	N-D	.1	N-D	.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	L 0.1	L 0.1	N-D	L 0.1

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MASS BALANCE IN POUNDS PER DAY

PLANT 15

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
METALS	CHROMIUM	.5	1.0	N-D	1.0
	COPPER	3.2	4.4	1.4	3.0
	CYANIDE	6.8	54.5	49.1	5.4
	LEAD	.5	1.2	N-D	1.2
	MERCURY	L 0.1	L 0.1	N-D	L 0.1
	NICKEL	5.2	1.1	.7	.4
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	.6	L 0.1	L 0.1	L 0.1
	ZINC	7.9	12.9	2.0	10.9
NON-CONV. METALS	ALUMINUM	31.2	-	6.1	NOT RUN
	BARIUM	5.7	-	1.8	NOT RUN
	CALCIUM	2550	-	2692	NOT RUN
	IRON	40.1	-	13.8	NOT RUN
	MAGNESIUM	347	-	365	NOT RUN
	MANGANESE	4.8	-	3.3	NOT RUN
	SODIUM	2139	-	2044	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 16

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	TOTAL SLUDGE
CONVENTIONALS	BOD	273198	64441	13278	51163
	TOTAL SUSP. SOLIDS	255695	94663	5029	89634
	COD	695869	260893	76447	184446
	OIL & GREASE	46472	25881	14082	11799
NON-CONVENTIONALS	TOTAL PHENOLS	434	161	157	4.4
	TOTAL SOLIDS	881756	616145	511390	104755
	TOTAL DISS. SOLIDS	601719	-	537141	NOT RUN
	TOTAL VOLATILE SOLIDS	350852	213222	131972	81250
	VOLATILE DISS. SOLIDS	63773	-	60554	NOT RUN
	TOTAL VOL. SUS. SOLIDS	193733	74185	3420	70765
	AMMONIA NITROGEN	18508	10931	10662	269
	TOC	116079	31658	22532	9126
VOLATILES	BENZENE	1.0	L 0.1	N-D	L 0.1
	CARBON TETRACHLORIDE	97.6	.8	.8	N-D
	CHLOROBENZENE	N-D	.2	.2	L 0.1
	1,2-DICHLOROETHANE	.2	N-D	N-D	N-D
	1,1,1-TRICHLOROETHANE	32.0	.6	.6	N-D
	1,1-DICHLOROETHANE	.2	.8	N-D	.8
	1,1,2-TRICHLOROETHANE	.2	.2	.2	N-D
	1,1,2,2-TETRACHLOROETHANE	N-D	.4	.4	N-D
	CHLOROFORM	46.9	8.0	8.0	L 0.1
	1,2-TRANS-DICHLOROETHYLENE	2.6	1.4	N-D	1.4
	1,2-DICHLOROPROPANE	N-D	L 0.1	N-D	L 0.1
	ETHYLBENZENE	18.1	1.0	.4	.6
	METHYLENE CHLORIDE	60.4	6.1	5.8	.3
	METHYL BROMIDE	1.4	N-D	N-D	N-D
	DICHLOROBROMOMETHANE	.2	N-D	N-D	N-D
	TRICHLOROFLUOROMETHANE	.8	N-D	N-D	N-D
	TETRACHLOROETHYLENE	79.3	1.5	1.2	.3
	TOLUENE	64.8	1.1	.4	.7
	TRICHLOROETHYLENE	54.3	3.3	.6	2.7
	VINYL CHLORIDE	2.8	N-D	N-D	N-D
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	.2	N-D	N-D	N-D
	2,4-DICHLOROPHENOL	.8	N-D	N-D	N-D
	2,4-DIMETHYLPHENOL	2.0	N-D	N-D	N-D
	PENTACHLOROPHENOL	6.8	4.8	4.8	N-D
	PHENOL	54.1	.1	N-D	.1
BASE-NEUTRALS	1,2-DICHLOROBENZENE	34.2	1.8	1.8	N-D
	1,3-DICHLOROBENZENE	3.6	.2	N-D	.2
	1,4-DICHLOROBENZENE	10.9	6.5	N-D	6.5
	FLUORANTHENE	N-D	.3	N-D	.3
	NAPHTHALENE	12.1	4.2	N-D	4.2
	BIS(2-ETHYLHEXYL) PHTHALATE	37.2	11.8	4.2	7.6
	BUTYL BENZYL PHTHALATE	3.8	1.3	N-D	1.3
	DI-N-BUTYL PHTHALATE	4.8	1.6	.4	1.2
	DIETHYL PHTHALATE	6.4	N-D	N-D	N-D
	1,2-BENZANTHRACENE	N-D	.1	N-D	.1
	BENZO (A)PYRENE	N-D	.1	N-D	.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 16

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	TOTAL SLUDGE
BASE-NEUTRALS	CHRYSENE	N-D	.1	N-D	.1
	ANTHRACENE	N-D	.6	N-D	.6
	PHENANTHRENE	N-D	.6	N-D	.6
	PYRENE	N-D	.2	N-D	.2
PESTICIDES	4,4'-DDD	N-D	L 0.1	L 0.1	N-D
	ALPHA-BHC	.1	L 0.1	L 0.1	N-D
	GAMMA-BHC	L 0.1	.2	.2	N-D
METALS	ANTIMONY	N-D	.8	N-D	.8
	ARSENIC	24.5	1.7	N-D	1.7
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	11.3	4.1	N-D	4.1
	CHROMIUM	121	55.9	23.7	32.2
	COPPER	171	50.9	6.0	44.9
	CYANIDE	348	249	172	77.3
	LEAD	163	57.4	6.8	50.6
	MERCURY	1.0	.3	.2	.1
	NICKEL	96.0	76.4	65.6	10.8
	SELENIUM	N-D	34.7	N-D	34.7
	SILVER	23.9	1.9	N-D	1.9
	ZINC	292	122	37.2	84.7
NON-CONV. METALS	ALUMINUM	1508	-	18.9	NOT RUN
	BARIUM	188	-	12.9	NOT RUN
	CALCIUM	39833	-	35608	NOT RUN
	IRON	1653	-	132	NOT RUN
	MAGNESIUM	5029	-	4828	NOT RUN
	MANGANESE	60.8	-	38.2	NOT RUN
	SODIUM	100991	-	98576	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

N-D=NOT DETECTED L=LESS THAN [illegible]

MASS BALANCE IN POUNDS PER DAY

PLANT 17

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	TOTAL EFFLUENT	SLUDGE
CONVENTIONALS	BOD	23768	12642	1262	11380
	TOTAL SUSP. SOLIDS	15770	-	996	NOT RUN
	COD	95440	35258	19248	16010
	OIL & GREASE	4275	3853	2150	1703
NON-CONVENTIONALS	TOTAL PHENOLS	29.2	13.9	13.4	.5
	TOTAL SOLIDS	77215	66973	53163	13810
	TOTAL DISS. SOLIDS	56679	-	52768	NOT RUN
	TOTAL VOLATILE SOLIDS	29086	20266	9745	10521
	VOLATILE DISS. SOLIDS	13357	-	8517	NOT RUN
	TOTAL VOL. SUS. SOLIDS	11610	2900	782	2118
	AMMONIA NITROGEN	4704	2484	2457	26.9
	TOC	11700	4253	3186	1067
VOLATILES	BENZENE	.1	L 0.1	N-D	L 0.1
	1,1,1-TRICHLOROETHANE	6.6	.4	.4	L 0.1
	1,1-DICHLOROETHANE	.1	L 0.1	N-D	L 0.1
	1,1,2,2-TETRACHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	CHLOROFORM	.3	.2	.2	N-D
	1,2-TRANS-DICHLOROETHYLENE	.4	.4	N-D	.4
	1,2-DICHLOROPROPANE	N-D	L 0.1	N-D	L 0.1
	ETHYLBENZENE	3.8	.3	.2	L 0.1
	METHYLENE CHLORIDE	2.7	1.6	1.5	.1
	DICHLORODIFLUOROMETHANE	N-D	L 0.1	N-D	L 0.1
	TETRACHLOROETHYLENE	15.2	2.0	2.0	L 0.1
	TOLUENE	8.8	.9	.8	.1
	TRICHLOROETHYLENE	1.5	L 0.1	L 0.1	L 0.1
ACID EXTRACT	PENTACHLOROPHENOL	3.6	2.3	2.3	L 0.1
	PHENOL	2.0	L 0.1	L 0.1	L 0.1
BASE-NEUTRALS	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	NAPHTHALENE	.4	.2	N-D	.2
	BIS(2-ETHYLHEXYL) PHTHALATE	2.9	2.3	.8	1.5
	BUTYL BENZYL PHTHALATE	.3	.2	N-D	.2
	DI-N-BUTYL PHTHALATE	.2	.4	.3	L 0.1
	DIETHYL PHTHALATE	.5	N-D	N-D	N-D
	1,2-BENZANTHRACENE	N-D	L 0.1	N-D	L 0.1
	CHRYSENE	N-D	L 0.1	N-D	L 0.1
	ANTHRACENE	N-D	.1	N-D	.1
	PHENANTHRENE	N-D	.1	N-D	.1
	PYRENE	N-D	L 0.1	N-D	L 0.1
PESTICIDES	HEPTACHLOR	L 0.1	N-D	N-D	N-D
	ALPHA-BHC	L 0.1	L 0.1	L 0.1	N-D
	BETA-BHC	N-D	L 0.1	L 0.1	N-D
	GAMMA-BHC	L 0.1	N-D	N-D	N-D
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1
	ARSENIC	N-D	L 0.1	N-D	L 0.1
	CADMIUM	3.3	.5	.2	.3
	CHROMIUM	13.2	5.6	4.2	1.4

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

(N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 17

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	TOTAL EFFLUENT	SLUDGE
METALS	COPPER	22.6	6.4	2.4	4.0
	CYANIDE	34.0	26.8	9.9	16.9
	LEAD	9.9	3.6	.5	3.1
	MERCURY	L 0.1	L 0.1	N-D	L 0.1
	NICKEL	4.2	4.9	4.5	.4
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	2.4	.8	L 0.1	.7
	ZINC	33.4	12.4	4.6	7.8
NON-CONV. METALS	ALUMINUM	118	-	11.2	NOT RUN
	BARIUM	13.5	-	5.4	NOT RUN
	CALCIUM	6770	-	6335	NOT RUN
	IRON	135	-	23.8	NOT RUN
	MAGNESIUM	1105	-	1057	NOT RUN
	MANGANESE	15.9	-	13.1	NOT RUN
	SODIUM	6525	-	6624	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 18

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	108376	83595	19010	28387	36198
	TOTAL SUSP. SOLIDS	139646	-	10941	NOT RUN	47959
	COD	373711	226027	42320	109456	74251
	OIL & GREASE	23813	22446	8602	10233	3611
NON-CONVENTIONALS	TOTAL PHENOLS	392	47.0	43.0	3.2	.8
	TOTAL SOLIDS	249257	285935	144078	95145	46712
	TOTAL DISS. SOLIDS	112809	-	123348	NOT RUN	NOT RUN
	TOTAL VOLATILE SOLIDS	103249	103463	21676	50002	31785
	VOLATILE DISS. SOLIDS	53189	-	29418	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	79053	-	7742	NOT RUN	29619
	AMMONIA NITROGEN	5215	3560	3441	75.5	43.0
	TOC	84215	21109	18494	970	1645
VOLATILES	BENZENE	4.8	L 0.1	N-D	L 0.1	L 0.1
	1,2-DICHLOROETHANE	L 0.1	N-D	N-D	N-D	N-D
	1,1,1-TRICHLOROETHANE	32.6	5.0	4.8	.2	N-D
	1,1-DICHLOROETHANE	.9	L 0.1	N-D	L 0.1	L 0.1
	1,1,2,2-TETRACHLOROETHANE	N-D	.3	N-D	.3	L 0.1
	CHLOROFORM	.9	.1	L 0.1	L 0.1	N-D
	1,2-TRANS-DICHLOROETHYLENE	N-D	.3	N-D	.3	L 0.1
	ETHYLBENZENE	6.3	.9	N-D	.9	L 0.1
	METHYLENE CHLORIDE	26.0	6.8	6.8	L 0.1	L 0.1
	TRICHLOROFLUOROMETHANE	L 0.1	L 0.1	N-D	L 0.1	N-D
	TETRACHLOROETHYLENE	4.5	2.2	2.2	N-D	N-D
	TOLUENE	17.6	.5	N-D	.4	.1
	TRICHLOROETHYLENE	11.7	2.0	1.7	.3	L 0.1
ACID EXTRACT	2-CHLOROPHENOL	L 0.1	L 0.1	N-D	L 0.1	N-D
	2,4-DICHLOROPHENOL	1.0	.5	.3	.2	N-D
	2,4-DIMETHYLPHENOL	.2	N-D	N-D	N-D	N-D
	PENTACHLOROPHENOL	.7	N-D	N-D	N-D	N-D
	PHENOL	10.5	1.1	L 0.1	.1	.9
BASE-NEUTRALS	NAPHTHALENE	.9	.4	N-D	.4	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	36.4	63.5	24.5	4.8	34.2
	BUTYL BENZYL PHTHALATE	1.8	1.6	N-D	1.4	.2
	DI-N-BUTYL PHTHALATE	1.9	1.5	.8	.4	.3
	DI-N-OCTYL PHTHALATE	19.8	2.5	1.1	.1	1.3
	DIETHYL PHTHALATE	N-D	.6	N-D	N-D	.6
	1,2-BENZANTHRACENE	N-D	.2	N-D	.2	N-D
	CHRYSENE	N-D	.2	N-D	.2	N-D
	ANTHRACENE	N-D	1.3	N-D	1.3	N-D
	FLUORENE	N-D	.2	N-D	.2	N-D
	PHENANTHRENE	N-D	1.3	N-D	1.3	N-D
	PYRENE	N-D	.1	N-D	.1	N-D
PESTICIDES	CHLORDANE	N-D	L 0.1	L 0.1	N-D	N-D
	ALPHA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D
	GAMMA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D
METALS	ANTIMONY	N-D	.5	N-D	.3	.2

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MASS BALANCE IN POUNDS PER DAY

PLANT 18

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	ARSENIC	N-D	.6	N-D	.4	.2
	CADMIUM	1.2	1.0	N-D	.4	.6
	CHROMIUM	26.7	11.9	5.5	4.0	2.4
	COPPER	61.1	33.8	3.3	16.6	13.9
	CYANIDE	88.0	108	58.3	28.4	22.1
	LEAD	70.7	62.7	12.0	28.7	22.0
	MERCURY	.3	.3	.1	.2	L 0.1
	NICKEL	12.4	9.3	7.2	1.5	.6
	SELENIUM	N-D	.1	N-D	.1	N-D
	SILVER	7.6	4.9	1.3	1.2	2.4
	ZINC	172	99.3	38.4	36.4	24.5
NON-CONV. METALS	ALUMINUM	2560	-	215	NOT RUN	NOT RUN
	BARIUM	58.0	-	8.7	NOT RUN	NOT RUN
	CALCIUM	8343	-	6795	NOT RUN	NOT RUN
	IRON	2140	-	189	NOT RUN	NOT RUN
	MAGNESIUM	1912	-	1376	NOT RUN	NOT RUN
	MANGANESE	84.3	-	47.9	NOT RUN	NOT RUN
	SODIUM	23205	-	25375	NOT RUN	NOT RUN

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MASS BALANCE IN POUNDS PER DAY

PLANT 19

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	213917	142340	24944	48884	68512
	TOTAL SUSP. SOLIDS	105265	292112	16168	150182	125762
	COD	407890	480917	80931	234333	165653
	OIL & GREASE	63357	32293	8731	19660	3902
NON-CONVENTIONALS	TOTAL PHENOLS	1207	185	170	7.8	6.8
	TOTAL SOLIDS	598854	701415	419158	144727	137530
	TOTAL DISS. SOLIDS	420308	-	373390	NOT RUN	NOT RUN
	TOTAL VOLATILE SOLIDS	214481	268013	66611	99618	101784
	VOLATILE DISS. SOLIDS	53808	-	45454	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	75821	165481	11641	59328	94512
	AMMONIA NITROGEN	19190	14491	13858	240	393
	TOC	118811	47861	40281	2435	5145
VOLATILES	BENZENE	2.1	L 0.1	N-D	L 0.1	L 0.1
	CHLOROBENZENE	1.7	N-D	N-D	N-D	N-D
	1,2-DICHLOROETHANE	.7	.7	.7	N-D	N-D
	1,1,1-TRICHLOROETHANE	27.5	17.7	16.9	.3	.5
	1,1-DICHLOROETHANE	.2	.4	.3	L 0.1	.1
	1,1,2,2-TETRACHLOROETHANE	N-D	1.6	N-D	1.6	L 0.1
	CHLOROFORM	10.3	8.1	7.9	L 0.1	.1
	1,2-TRANS-DICHLOROETHYLENE	2.9	2.6	N-D	L 0.1	2.6
	1,2-DICHLOROPROPANE	.8	.5	.5	N-D	N-D
	ETHYLBENZENE	12.0	2.6	1.7	.8	.1
	METHYLENE CHLORIDE	52.6	34.1	33.8	L 0.1	.2
	METHYL CHLORIDE	18.1	208	208	N-D	N-D
	METHYL BROMIDE	N-D	23.2	23.2	N-D	N-D
	TRICHLOROFLUOROMETHANE	.2	N-D	N-D	N-D	N-D
	DICHLORODIFLUOROMETHANE	94.1	N-D	N-D	N-D	N-D
	TETRACHLOROETHYLENE	8.6	10.0	10.0	N-D	N-D
	TOLUENE	34.0	3.6	1.0	2.4	.2
	TRICHLOROETHYLENE	17.9	10.2	9.1	.9	.2
	VINYL CHLORIDE	10.9	N-D	N-D	N-D	N-D
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	N-D	L 0.1	N-D	L 0.1	N-D
	2-CHLOROPHENOL	1.2	L 0.1	N-D	L 0.1	N-D
	2,4-DICHLOROPHENOL	N-D	.6	.6	L 0.1	N-D
	2,4-DIMETHYLPHENOL	1.0	1.6	1.6	N-D	N-D
	PENTACHLOROPHENOL	N-D	L 0.1	N-D	L 0.1	N-D
	PHENOL	73.4	2.2	L 0.1	1.2	.9
BASE-NEUTRALS	1,2,4-TRICHLOROBENZENE	N-D	1.7	N-D	1.2	.5
	1,2-DICHLOROBENZENE	4.0	4.6	1.4	2.3	.9
	1,3-DICHLOROBENZENE	N-D	1.0	N-D	.7	.3
	1,4-DICHLOROBENZENE	1.3	2.3	.5	1.3	.5
	FLUORANTHENE	N-D	.5	N-D	.3	.2
	NAPHTHALENE	1.6	1.2	N-D	1.2	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	18.4	38.3	11.2	12.5	14.6
	BUTYL BENZYL PHTHALATE	10.5	8.5	N-D	8.5	N-D
	DI-N-BUTYL PHTHALATE	.7	1.1	N-D	.9	.2
	DI-N-OCTYL PHTHALATE	N-D	L 0.1	N-D	L 0.1	L 0.1
	DIETHYL PHTHALATE	1.7	N-D	N-D	N-D	N-D

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 19

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
BASE-NEUTRALS	ANTHRACENE	N-D	.6	N-D	.6	N-D
	PHENANTHRENE	N-D	.6	N-D	.6	N-D
	PYRENE	N-D	.2	N-D	L 0.1	L 0.1
PESTICIDES	4,4'-DDE	N-D	L 0.1	N-D	N-D	L 0.1
	4,4'-DDD	L 0.1	N-D	N-D	N-D	N-D
	HEPTACHLOR	L 0.1	N-D	N-D	N-D	N-D
	GAMMA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D
METALS	ANTIMONY	N-D	1.0	N-D	.4	.6
	ARSENIC	N-D	1.7	N-D	.7	1.0
	CADMIUM	5.4	23.1	N-D	2.3	20.8
	CHROMIUM	60.3	36.4	12.9	13.3	10.2
	COPPER	55.0	61.0	8.1	30.7	22.2
	CYANIDE	403	863	137	467	259
	LEAD	26.5	57.0	N-D	30.7	26.3
	MERCURY	.3	1.2	L 0.1	.5	.6
	NICKEL	30.4	32.5	24.7	5.1	2.7
	SELENIUM	N-D	14.4	13.9	.4	.1
	SILVER	5.8	4.5	N-D	2.1	2.4
	ZINC	126	171	24.0	65.5	82.4
NON-CONV. METALS	ALUMINUM	2006	-	180	NOT RUN	NOT RUN
	BARIUM	67.6	-	10.1	NOT RUN	NOT RUN
	CALCIUM	15616	-	13950	NOT RUN	NOT RUN
	IRON	1149	-	365	NOT RUN	NOT RUN
	MAGNESIUM	9125	-	8869	NOT RUN	NOT RUN
	MANGANESE	80.8	-	60.4	NOT RUN	NOT RUN
	SODIUM	84852	-	82594	NOT RUN	NOT RUN

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 20

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	245496	230578	20715	70822	139041
	TOTAL SUSP. SOLIDS	417939	-	12947	225897	NOT RUN
	COD	745433	404089	39487	183700	180902
	OIL & GREASE	31639	69298	11814	23872	33612
NON-CONVENTIONALS	TOTAL PHENOLS	562	365	354	3.2	7.7
	TOTAL SOLIDS	1176127	1161450	735049	263682	162719
	TOTAL DISS. SOLIDS	792975	-	719351	NOT RUN	NOT RUN
	TOTAL VOLATILE SOLIDS	411976	367671	96938	159918	110815
	VOLATILE DISS. SOLIDS	87298	-	89494	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	254275	257737	6797	134196	116744
	AMMONIA NITROGEN	18056	12955	12138	313	504
	TOC	96906	31623	15051	5834	10738
VOLATILES	BENZENE	2.0	L 0.1	N-D	L 0.1	N-D
	CARBON TETRACHLORIDE	1.3	N-D	N-D	N-D	N-D
	1,1,1-TRICHLOROETHANE	31.6	.6	.6	N-D	N-D
	1,1-DICHLOROETHANE	3.0	N-D	N-D	N-D	N-D
	CHLOROFORM	4.6	2.1	2.1	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	2.0	2.3	N-D	2.3	N-D
	ETHYLBENZENE	4.8	.3	N-D	.3	N-D
	METHYLENE CHLORIDE	50.7	13.4	13.4	N-D	N-D
	METHYL CHLORIDE	4.6	N-D	N-D	N-D	N-D
	METHYL BROMIDE	36.8	N-D	N-D	N-D	N-D
	DICHLOROBROMOMETHANE	N-D	1.1	1.1	N-D	N-D
	DICHLORODIFLUOROMETHANE	39.9	18.8	18.8	N-D	N-D
	CHLORODIBROMOMETHANE	.2	.6	.6	N-D	N-D
	TETRACHLOROETHYLENE	15.2	1.1	1.1	N-D	N-D
	TOLUENE	22.9	1.9	N-D	.9	1.0
	TRICHLOROETHYLENE	30.3	1.7	.3	1.4	N-D
	VINYL CHLORIDE	13.3	N-D	N-D	N-D	N-D
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	.7	.5	.5	N-D	N-D
	2,4-DICHLOROPHENOL	.2	.2	.2	N-D	N-D
	2,4-DIMETHYLPHENOL	.2	N-D	N-D	N-D	N-D
	PHENOL	8.9	1.5	.2	.2	1.1
BASE-NEUTRALS	1,2,4-TRICHLOROBENZENE	13.7	1.5	N-D	1.4	.1
	1,2-DICHLOROBENZENE	N-D	.4	N-D	.4	N-D
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1	N-D
	ISOPHORONE	5.8	N-D	N-D	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	23.9	28.4	5.5	10.5	12.4
	BUTYL BENZYL PHTHALATE	8.1	3.7	N-D	3.7	N-D
	DI-N-BUTYL PHTHALATE	2.7	.9	N-D	.9	N-D
	DIETHYL PHTHALATE	2.7	.3	N-D	L 0.1	.2
	ANTHRACENE	N-D	.2	N-D	.2	L 0.1
	PHENANTHRENE	N-D	.2	N-D	.2	L 0.1
	PYRENE	N-D	L 0.1	N-D	L 0.1	N-D
PESTICIDES	4,4'-DDD	L 0.1	N-D	N-D	N-D	N-D
	HEPTACHLOR EPOXIDE	L 0.1	N-D	N-D	N-D	N-D
	GAMMA-BHC	.2	L 0.1	L 0.1	N-D	N-D

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 20

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	ANTIMONY	N-D	1.0	N-D	.8	.2
	ARSENIC	9.3	2.6	N-D	1.2	1.4
	CADMIUM	N-D	1.2	N-D	.4	.8
	CHROMIUM	38.4	35.1	1.3	15.4	18.4
	COPPER	184	139	9.1	64.6	64.5
	CYANIDE	241	308	84.3	170	53.8
	LEAD	26.2	55.1	N-D	28.9	26.2
	MERCURY	.8	1.0	N-D	.6	.4
	NICKEL	62.1	49.7	20.1	14.3	15.3
	SELENIUM	N-D	.6	N-D	.6	N-D
	SILVER	7.0	8.0	N-D	3.5	4.5
	ZINC	368	320	34.8	124	161
NON-CONV. METALS	ALUMINUM	2723	-	88.4	NOT RUN	NOT RUN
	BARIUM	124	-	42.4	NOT RUN	NOT RUN
	CALCIUM	47376	-	41268	NOT RUN	NOT RUN
	IRON	2907	-	95.0	NOT RUN	NOT RUN
	MAGNESIUM	25676	-	22980	NOT RUN	NOT RUN
	MANGANESE	80.5	-	58.6	NOT RUN	NOT RUN
	SODIUM	130865	-	131247	NOT RUN	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 21

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	45505	34844	11088	19334	4422
	TOTAL SUSP. SOLIDS	49775	41894	5465	33776	2653
	COD	172079	95412	25525	61715	8172
	OIL & GREASE	5927	9500	2464	6837	199
NON-CONVENTIONALS	TOTAL PHENOLS	94.2	20.3	19.6	.6	L 0.1
	TOTAL SOLIDS	187629	187284	134637	45053	7594
	TOTAL DISS. SOLIDS	131047	-	124149	NOT RUN	NOT RUN
	TOTAL VOLATILE SOLIDS	65677	61650	23566	33257	4827
	VOLATILE DISS. SOLIDS	10134	-	14746	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	36296	37390	3285	33130	975
	AMMONIA NITROGEN	3187	1780	1706	45.5	28.0
	TOC	24059	8452	7045	1144	263
VOLATILES	BENZENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	CHLOROBENZENE	N-D	L 0.1	N-D	L 0.1	N-D
	1,2-DICHLOROETHANE	.3	N-D	N-D	N-D	N-D
	1,1,1-TRICHLOROETHANE	3.2	L 0.1	L 0.1	N-D	N-D
	1,1,2-TRICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	1,1,2,2-TETRACHLOROETHANE	N-D	.1	N-D	.1	N-D
	CHLOROFORM	1.6	.5	.4	L 0.1	N-D
	1,2-TRANS-DICHLOROETHYLENE	.3	.1	N-D	.1	N-D
	1,2-DICHLOROPROPANE	N-D	L 0.1	N-D	L 0.1	L 0.1
	ETHYLBENZENE	.4	L 0.1	N-D	L 0.1	N-D
	METHYLENE CHLORIDE	10.0	4.4	3.3	1.1	L 0.1
	METHYL CHLORIDE	12.1	N-D	N-D	N-D	N-D
	DICHLORODIFLUOROMETHANE	N-D	.1	N-D	.1	L 0.1
	TETRACHLOROETHYLENE	2.8	.5	.4	L 0.1	L 0.1
	TOLUENE	11.6	1.0	.4	.5	L 0.1
	TRICHLOROETHYLENE	1.1	.2	N-D	.2	L 0.1
ACID EXTRACT	2,4-DICHLOROPHENOL	.2	N-D	N-D	N-D	N-D
	2,4-DIMETHYLPHENOL	.4	N-D	N-D	N-D	N-D
	PENTACHLOROPHENOL	65.6	47.4	41.7	5.2	.5
	PHENOL	10.5	.2	.2	N-D	N-D
BASE-NEUTRALS	ACENAPHTHENE	N-D	.4	N-D	.4	L 0.1
	1,2-DICHLOROBENZENE	1.2	.1	N-D	.1	N-D
	1,4-DICHLOROBENZENE	.5	N-D	N-D	N-D	N-D
	FLUORANTHENE	N-D	.4	N-D	.4	L 0.1
	NAPHTHALENE	5.1	1.5	L 0.1	1.4	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	5.1	8.4	3.3	3.3	1.8
	BUTYL BENZYL PHTHALATE	1.5	1.9	N-D	1.8	.1
	DI-N-BUTYL PHTHALATE	.9	1.2	.7	.5	L 0.1
	DI-N-OCTYL PHTHALATE	N-D	.2	.2	N-D	N-D
	DIETHYL PHTHALATE	2.4	N-D	N-D	N-D	N-D
	CHRYSENE	N-D	.1	N-D	.1	L 0.1
	ACENAPHTHYLENE	N-D	L 0.1	N-D	L 0.1	N-D
	FLUORENE	N-D	L 0.1	N-D	L 0.1	N-D
	PHENANTHRENE	N-D	.6	N-D	.6	L 0.1
	PYRENE	N-D	.5	N-D	.4	L 0.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D-NOT DETECTED; L-LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 21

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
PESTICIDES	ALPHA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D
	BETA-BHC	L 0.1	N-D	N-D	N-D	N-D
	GAMMA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1	L 0.1
	ARSENIC	1.8	2.2	1.6	.4	.2
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	CADMIUM	N-D	.2	N-D	.1	L 0.1
	CHROMIUM	8.8	6.4	2.8	2.3	1.3
	COPPER	64.2	44.5	28.5	10.4	5.6
	CYANIDE	40.8	78.3	29.8	45.2	3.3
	LEAD	7.3	8.0	N-D	5.8	2.2
	MERCURY	.1	.2	L 0.1	.2	L 0.1
	NICKEL	11.9	8.2	7.5	.4	.3
	SELENIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	SILVER	N-D	.4	N-D	.3	.1
	ZINC	43.3	26.7	14.8	8.4	3.5
NON-CONV. METALS	ALUMINUM	283	-	66.7	NOT RUN	NOT RUN
	BARIUM	35.8	-	15.0	NOT RUN	NOT RUN
	CALCIUM	6979	-	6413	NOT RUN	NOT RUN
	IRON	324	-	99.9	NOT RUN	NOT RUN
	MAGNESIUM	2709	-	2590	NOT RUN	NOT RUN
	MANGANESE	52.0	-	32.6	NOT RUN	NOT RUN
	SODIUM	23964	-	23377	NOT RUN	NOT RUN

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MASS BALANCE IN POUNDS PER DAY

PLANT 22

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	27835	17562	4430	13132
	TOTAL SUSP. SOLIDS	18083	30621	2507	28114
	COD	59314	63519	16738	46781
	OIL & GREASE	4023	4579	1093	3486
NON-CONVENTIONALS	TOTAL PHENOLS	25.7	39.8	39.4	.4
	TOTAL SOLIDS	64892	77021	41393	35628
	TOTAL DISS. SOLIDS	25805	36625	30065	6560
	TOTAL VOLATILE SOLIDS	25729	29702	8237	21465
	VOLATILE DISS. SOLIDS	8926	9826	7389	2437
	TOTAL VOL. SUS. SOLIDS	8709	14964	1319	13645
	AMMONIA NITROGEN	2201	2140	2017	123
	TOC	6907	9337	5561	3776
VOLATILES	BENZENE	N-D	L 0.1	N-D	L 0.1
	CHLOROBENZENE	L 0.1	N-D	N-D	N-D
	1,1,1-TRICHLOROETHANE	1.2	N-D	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	.8	L 0.1	L 0.1	N-D
	CHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	CHLOROFORM	.6	L 0.1	L 0.1	N-D
	1,2-TRANS-DICHLOROETHYLENE	1.9	2.8	.1	2.7
	ETHYLBENZENE	.9	.1	L 0.1	.1
	METHYLENE CHLORIDE	2.0	.7	.7	N-D
	DICHLOROBROMOMETHANE	L 0.1	N-D	N-D	N-D
	TETRACHLOROETHYLENE	66.3	1.6	1.6	N-D
	TOLUENE	6.3	.6	N-D	.6
	TRICHLOROETHYLENE	4.9	1.1	1.1	N-D
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	L 0.1	L 0.1	L 0.1	N-D
	2-CHLOROPHENOL	L 0.1	L 0.1	L 0.1	N-D
	2,4-DICHLOROPHENOL	L 0.1	L 0.1	L 0.1	N-D
	2,4-DIMETHYLPHENOL	L 0.1	L 0.1	L 0.1	N-D
	PENTACHLOROPHENOL	.3	.3	.3	N-D
	PHENOL	1.3	.8	.7	L 0.1
BASE-NEUTRALS	ACENAPHTHENE	N-D	L 0.1	N-D	L 0.1
	1,2,4-TRICHLOROBENZENE	.5	1.0	.3	.7
	1,2-DICHLOROBENZENE	N-D	.4	.4	N-D
	1,3-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,4-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	FLUORANTHENE	N-D	.1	N-D	.1
	NAPHTHALENE	1.5	.4	N-D	.4
	BIS(2-ETHYLHEXYL) PHTHALATE	23.9	27.2	7.1	20.1
	BUTYL BENZYL PHTHALATE	1.6	1.9	.8	1.1
	DI-N-BUTYL PHTHALATE	.6	1.9	1.4	.5
	DI-N-OCTYL PHTHALATE	1.0	L 0.1	L 0.1	N-D
	1,2-BENZANTHRACENE	N-D	.2	.2	N-D
	CHRYSENE	N-D	.2	.2	N-D
	ANTHRACENE	N-D	L 0.1	N-D	L 0.1
	PHENANTHRENE	N-D	L 0.1	N-D	L 0.1
	PYRENE	N-D	L 0.1	N-D	L 0.1

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MASS BALANCE IN POUNDS PER DAY

PLANT 22

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
PESTICIDES	4,4'-DDD	N-D	L 0.1	L 0.1	N-D
	GAMMA-BHC	L 0.1	L 0.1	L 0.1	N-D
METALS	ANTIMONY	N-D	.6	N-D	.6
	ARSENIC	N-D	L 0.1	N-D	L 0.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	.5	.1	N-D	.1
	CHROMIUM	52.3	19.8	12.6	7.2
	COPPER	43.0	10.4	8.6	1.8
	CYANIDE	16.1	29.1	10.2	18.9
	LEAD	32.0	64.1	6.1	58.0
	MERCURY	L 0.1	L 0.1	N-D	L 0.1
	NICKEL	34.1	24.9	23.4	1.5
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	1.5	.8	.3	.5
	ZINC	106	35.3	23.9	11.4
NON-CONV. METALS	ALUMINUM	327	-	28.0	NOT RUN
	BARIUM	53.1	-	3.1	NOT RUN
	CALCIUM	1916	-	1696	NOT RUN
	IRON	541	-	60.8	NOT RUN
	MAGNESIUM	550	-	452	NOT RUN
	MANGANESE	43.0	-	27.6	NOT RUN
	SODIUM	7533	-	7427	NOT RUN

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MASS BALANCE IN POUNDS PER DAY

PLANT 23

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	29729	11057	5995	5043	19.1
	TOTAL SUSP. SOLIDS	17792	12695	4174	8501	20.2
	COD	65389	33247	24586	8605	55.5
	OIL & GREASE	4562	4464	2011	2447	6.4
NON-CONVENTIONALS	TOTAL PHENOLS	73.1	58.4	58.2	.2	L 0.1
	TOTAL SOLIDS	123820	84899	74024	10837	37.9
	TOTAL DISS. SOLIDS	87971	-	88784	2599	NOT RUN
	TOTAL VOLATILE SOLIDS	42693	25068	16239	8804	25.0
	VOLATILE DISS. SOLIDS	42503	-	20678	2761	NOT RUN
	TOTAL VOL. SUS. SOLIDS	14066	8002	3035	4927	39.8
	AMMONIA NITROGEN	1673	2250	2239	11.3	.2
	TOC	14446	7584	7171	408	4.6
VOLATILES	BENZENE	L 0.1	L 0.1	N-D	L 0.1	L 0.1
	1,2-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	L 0.1
	1,1,1-TRICHLOROETHANE	2.4	L 0.1	N-D	L 0.1	N-D
	1,1-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	1,1,2,2-TETRACHLOROETHANE	N-D	L 0.1	N-D	L 0.1	L 0.1
	CHLOROFORM	.1	L 0.1	N-D	L 0.1	L 0.1
	1,2-TRANS-DICHLOROETHYLENE	1.7	L 0.1	N-D	L 0.1	L 0.1
	ETHYLBENZENE	1.4	.2	.2	L 0.1	N-D
	METHYLENE CHLORIDE	17.8	.7	.7	L 0.1	L 0.1
	TETRACHLOROETHYLENE	5.2	.5	.5	N-D	N-D
	TOLUENE	1.9	L 0.1	N-D	L 0.1	L 0.1
	TRICHLOROETHYLENE	8.4	.3	N-D	.3	L 0.1
ACID EXTRACT	PARACHLOROMETA CRESOL	1.8	L 0.1	N-D	L 0.1	N-D
	2-CHLOROPHENOL	N-D	L 0.1	N-D	L 0.1	N-D
	PENTACHLOROPHENOL	.4	.2	.2	L 0.1	L 0.1
	PHENOL	.5	L 0.1	N-D	L 0.1	L 0.1
BASE-NEUTRALS	1,2,4-TRICHLOROBENZENE	.5	L 0.1	N-D	L 0.1	N-D
	1,2-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1	N-D
	1,4-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1	N-D
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	NAPHTHALENE	.7	L 0.1	N-D	L 0.1	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	22.4	19.6	17.0	2.6	L 0.1
	BUTYL BENZYL PHTHALATE	3.1	2.5	.2	2.3	L 0.1
	DI-N-BUTYL PHTHALATE	1.8	1.1	.9	.2	L 0.1
	DI-N-OCTYL PHTHALATE	N-D	.3	.3	L 0.1	L 0.1
	DIETHYL PHTHALATE	.3	L 0.1	N-D	L 0.1	L 0.1
	ANTHRACENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	PHENANTHRENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	PYRENE	N-D	L 0.1	N-D	L 0.1	L 0.1
PESTICIDES	ALPHA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D
	GAMMA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D
	DELTA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D
METALS	ANTIMONY	N-D	.1	N-D	.1	L 0.1
	ARSENIC	N-D	L 0.1	N-D	L 0.1	L 0.1

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 23

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	BERYLLIUM	N-D	L 0.1	N-D	N-D	L 0.1
	CADMIUM	5.7	3.5	3.1	.4	L 0.1
	CHROMIUM	18.6	11.2	9.4	1.8	L 0.1
	COPPER	14.1	12.6	11.0	1.6	L 0.1
	CYANIDE	46.6	52.0	42.9	8.9	.2
	LEAD	2.1	3.2	1.9	1.3	L 0.1
	MERCURY	L 0.1	L 0.1	N-D	L 0.1	N-D
	NICKEL	5.0	4.5	4.4	L 0.1	L 0.1
	SELENIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	SILVER	.5	L 0.1	N-D	L 0.1	L 0.1
	ZINC	62.5	33.5	30.5	3.0	L 0.1
NON-CONV. METALS	ALUMINUM	299	-	149	NOT RUN	NOT RUN
	BARIUM	12.0	-	5.3	NOT RUN	NOT RUN
	CALCIUM	1749	-	1707	NOT RUN	NOT RUN
	IRON	383	-	283	NOT RUN	NOT RUN
	MANGANESE	15.0	-	15.2	NOT RUN	NOT RUN
	SODIUM	20263	-	16049	NOT RUN	NOT RUN

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 24

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	16283	3997	687	2688	622
	TOTAL SUSP. SOLIDS	6600	10867	1704	7747	1416
	COD	58593	26526	8353	13189	4984
	OIL & GREASE	4041	5115	3022	1222	871
NON-CONVENTIONALS	TOTAL PHENOLS	6.2	6.1	5.3	L 0.1	.7
	TOTAL SOLIDS	34207	33528	23602	7453	2473
	TOTAL DISS. SOLIDS	21975	22836	19032	1597	2207
	TOTAL VOLATILE SOLIDS	15671	11991	5550	5441	1000
	VOLATILE DISS. SOLIDS	6442	7884	5156	1437	1291
	TOTAL VOL. SUS. SOLIDS	4417	5548	1088	3304	1156
	AMMONIA NITROGEN	622	1224	1136	11.8	76.4
	TOC	7509	1925	1099	686	140
VOLATILES	BENZENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	1,1,1-TRICHLOROETHANE	L 0.1	N-D	N-D	N-D	N-D
	1,1,2-TRICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	L 0.1
	1,1,2,2-TETRACHLOROETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	CHLOROETHANE	N-D	.6	N-D	.4	.2
	CHLOROFORM	.2	L 0.1	L 0.1	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	.6	L 0.1	N-D	L 0.1	L 0.1
	ETHYLBENZENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	METHYLENE CHLORIDE	.3	L 0.1	L 0.1	L 0.1	L 0.1
	METHYL CHLORIDE	N-D	.2	N-D	.2	L 0.1
	METHYL BROMIDE	N-D	.8	N-D	.7	L 0.1
	DICHLORODIFLUOROMETHANE	N-D	L 0.1	N-D	L 0.1	L 0.1
	TETRACHLOROETHYLENE	1.4	L 0.1	L 0.1	L 0.1	L 0.1
	TOLUENE	L 0.1	2.9	L 0.1	2.6	.3
	TRICHLOROETHYLENE	3.0	.1	N-D	L 0.1	L 0.1
ACID EXTRACT	PENTACHLOROPHENOL	2.7	1.1	.8	.3	N-D
	PHENOL	.2	.2	L 0.1	.1	N-D
BASE-NEUTRALS	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	3.9	3.6	3.2	.3	.1
	BUTYL BENZYL PHTHALATE	.4	L 0.1	N-D	L 0.1	N-D
	DI-N-BUTYL PHTHALATE	.3	.3	.3	L 0.1	N-D
	CHRYSENE	N-D	L 0.1	N-D	L 0.1	N-D
	PHENANTHRENE	N-D	L 0.1	N-D	L 0.1	N-D
	PYRENE	N-D	L 0.1	N-D	L 0.1	N-D
PESTICIDES	HEPTACHLOR EPOXIDE	N-D	L 0.1	L 0.1	N-D	N-D
	GAMMA-BHC	N-D	L 0.1	L 0.1	N-D	N-D
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1	L 0.1
	ARSENIC	N-D	L 0.1	N-D	L 0.1	L 0.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	CADMIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	CHROMIUM	L 0.1	.3	N-D	.1	.2
	COPPER	1.2	1.4	1.1	.2	.1
	CYANIDE	10.4	14.6	2.6	11.2	.8
	LEAD	N-D	.9	N-D	.3	.6

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 24

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	MERCURY	L 0.1	L 0.1	L 0.1	L 0.1	N-D
	NICKEL	N-D	L 0.1	N-D	L 0.1	N-D
	SELENIUM	N-D	L 0.1	N-D	L 0.1	N-D
	SILVER	N-D	L 0.1	N-D	L 0.1	N-D
	ZINC	5.5	5.5	4.2	.7	.6
NON-CONV. METALS	ALUMINUM	71.7	-	58.7	NOT RUN	NOT RUN
	BARIUM	13.8	-	7.6	NOT RUN	NOT RUN
	CALCIUM	375	-	632	NOT RUN	NOT RUN
	IRON	171	-	153	NOT RUN	NOT RUN
	MANGANESE	10.8	-	8.4	NOT RUN	NOT RUN
	SODIUM	4278	-	4103	NOT RUN	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 25

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	119060	118276	10646	27256	80374
	TOTAL SUSP. SOLIDS	65782	-	14845	NOT RUN	NOT RUN
	COD	219677	226234	33711	70905	121618
	OIL & GREASE	14605	19624	2425	8963	8236
NON-CONVENTIONALS	TOTAL PHENOLS	195	176	170	1.6	3.5
	TOTAL SOLIDS	308031	319548	191919	45265	82364
	TOTAL DISS. SOLIDS	209297	267512	187010	18027	62475
	TOTAL VOLATILE SOLIDS	107545	120006	27620	31587	60799
	VOLATILE DISS. SOLIDS	47798	86665	29453	12230	44982
	TOTAL VOL. SUS. SOLIDS	52022	-	11651	NOT RUN	NOT RUN
	AMMONIA NITROGEN	6216	2221	2070	80.6	69.8
	TOC	42849	18515	7511	3715	7289
VOLATILES	BENZENE	.1	L 0.1	N-D	L 0.1	L 0.1
	1,2-DICHLOROETHANE	N-D	L 0.1	N-D	N-D	L 0.1
	1,1,1-TRICHLOROETHANE	16.5	3.1	3.1	L 0.1	N-D
	1,1-DICHLOROETHANE	.4	.2	L 0.1	L 0.1	L 0.1
	CHLOROFORM	6.0	2.2	2.2	L 0.1	L 0.1
	1,1-DICHLOROETHYLENE	N-D	L 0.1	N-D	N-D	L 0.1
	1,2-TRANS-DICHLOROETHYLENE	.4	L 0.1	N-D	L 0.1	N-D
	ETHYLBENZENE	2.5	L 0.1	N-D	L 0.1	N-D
	METHYLENE CHLORIDE	4.2	2.0	2.0	L 0.1	L 0.1
	DICHLOROBROMOMETHANE	N-D	L 0.1	N-D	N-D	L 0.1
	TETRACHLOROETHYLENE	4.2	1.2	1.0	.1	.1
	TOLUENE	7.1	1.8	L 0.1	.7	1.0
	TRICHLOROETHYLENE	.7	L 0.1	N-D	L 0.1	L 0.1
ACID EXTRACT	PHENOL	2.0	.6	L 0.1	.2	.3
BASE-NEUTRALS	1,2-DICHLOROBENZENE	.5	.2	N-D	.1	L 0.1
	1,3-DICHLOROBENZENE	N-D	.1	N-D	.1	N-D
	1,4-DICHLOROBENZENE	N-D	.3	N-D	.2	.1
	FLUORANTHENE	N-D	.1	N-D	.1	L 0.1
	NAPHTHALENE	1.4	.2	N-D	.2	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	26.3	17.4	6.9	5.2	5.3
	BUTYL BENZYL PHTHALATE	4.0	1.0	N-D	1.0	L 0.1
	DI-N-BUTYL PHTHALATE	1.5	1.5	1.0	.4	L 0.1
	DI-N-OCTYL PHTHALATE	N-D	.6	N-D	.4	.2
	DIETHYL PHTHALATE	2.4	L 0.1	N-D	L 0.1	N-D
	DIMETHYL PHTHALATE	N-D	.1	N-D	L 0.1	.1
	1,2-BENZANTHRACENE	N-D	.3	N-D	.2	.1
	BENZO (A)PYRENE	N-D	.3	N-D	.2	.1
	3,4-BENZOFLUORANTHENE	N-D	.3	N-D	.2	.1
	11,12-BENZOFLUORANTHENE	N-D	.3	N-D	.2	.1
	CHRYSENE	N-D	.3	N-D	.2	.1
	ANTHRACENE	N-D	.4	N-D	.3	L 0.1
	1,12-BENZOPERYLENE	N-D	L 0.1	N-D	L 0.1	N-D
	PHENANTHRENE	N-D	.4	N-D	.3	L 0.1
	INDENO(1,2,3-C,D) PYRENE	N-D	L 0.1	N-D	L 0.1	N-D
	PYRENE	N-D	.2	N-D	L 0.1	.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 25

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
PESTICIDES	ALPHA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D
	GAMMA-BHC	.1	L 0.1	L 0.1	N-D	N-D
	DELTA-BHC	N-D	L 0.1	L 0.1	N-D	N-D
METALS	ANTIMONY	N-D	.2	N-D	L 0.1	L 0.1
	ARSENIC	N-D	.5	N-D	L 0.1	.4
	CADMIUM	1.3	1.6	N-D	.3	1.3
	CHROMIUM	28.9	39.1	8.7	8.5	21.9
	COPPER	38.9	43.0	2.3	12.8	27.9
	CYANIDE	440	491	86.7	198	206
	LEAD	19.9	24.7	N-D	8.8	15.9
	MERCURY	.2	.2	L 0.1	.1	.1
	NICKEL	2.2	1.9	N-D	.8	1.1
	SELENIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	SILVER	3.4	5.1	.5	1.4	3.2
	ZINC	64.6	74.4	8.3	18.7	47.4
NON-CONV. METALS	ALUMINUM	440	-	101	NOT RUN	NOT RUN
	BARIUM	29.2	-	5.9	NOT RUN	NOT RUN
	CALCIUM	22632	-	21055	NOT RUN	NOT RUN
	IRON	640	-	175	NOT RUN	NOT RUN
	MAGNESIUM	2535	-	2366	NOT RUN	NOT RUN
	MANGANESE	10.3	-	8.2	NOT RUN	NOT RUN
	SODIUM	32408	-	28389	NOT RUN	NOT RUN

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 26

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	190299	223959	29365	194594
	TOTAL SUSP. SOLIDS	200315	-	9984	NOT RUN
	COD	433917	450724	74000	376724
	OIL & GREASE	22683	28703	9867	18836
NON-CONVENTIONALS	TOTAL PHENOLS	136	111	107	4.1
	TOTAL SOLIDS	1219564	1170254	858047	312207
	TOTAL DISS. SOLIDS	915557	1061193	938037	123156
	TOTAL VOLATILE SOLIDS	310194	309690	152405	157285
	VOLATILE DISS. SOLIDS	196191	223119	191167	31952
	TOTAL VOL. SUS. SOLIDS	114886	-	8222	NOT RUN
	AMMONIA NITROGEN	7070	4451	3817	634
	TOC	83661	34133	13390	20743
VOLATILES	BENZENE	2.9	L 0.1	N-D	L 0.1
	1,1,1-TRICHLOROETHANE	9.1	1.2	1.2	N-D
	CHLOROFORM	2.1	1.8	1.8	N-D
	1,2-TRANS-DICHLOROETHYLENE	3.5	6.8	N-D	6.8
	ETHYLBENZENE	8.0	.6	N-D	.6
	METHYLENE CHLORIDE	10.0	8.5	7.9	.6
	TETRACHLOROETHYLENE	171	48.6	48.5	L 0.1
	TOLUENE	39.2	1.1	N-D	1.1
	TRICHLOROETHYLENE	14.1	.9	.9	L 0.1
ACID EXTRACT	PHENOL	1.5	1.0	N-D	1.0
BASE-NEUTRALS	HEXACHLOROBENZENE	N-D	.2	N-D	.2
	1,3-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,4-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	FLUORANTHENE	N-D	1.4	N-D	1.4
	NAPHTHALENE	1.2	2.4	N-D	2.4
	BIS(2-ETHYLHEXYL) PHTHALATE	148	152	89.6	62.3
	DI-N-BUTYL PHTHALATE	1.2	1.8	1.8	N-D
	DI-N-OCTYL PHTHALATE	N-D	1.5	1.5	N-D
	DIMETHYL PHTHALATE	N-D	L 0.1	N-D	L 0.1
	CHRYSENE	N-D	1.5	N-D	1.5
	ANTHRACENE	N-D	1.7	N-D	1.7
	PHENANTHRENE	N-D	1.7	N-D	1.7
	PYRENE	N-D	1.1	N-D	1.1
PESTICIDES	HEPTACHLOR	.3	L 0.1	L 0.1	N-D
	GAMMA-BHC	.4	L 0.1	L 0.1	N-D
METALS	ANTIMONY	N-D	.3	N-D	.3
	ARSENIC	N-D	1.9	N-D	1.9
	BERYLLIUM	N-D	.2	N-D	.2
	CADMIUM	5.0	2.0	N-D	2.0
	CHROMIUM	86.3	58.8	20.3	38.5
	COPPER	181	102	14.1	88.2
	CYANIDE	125	540	72.5	467
	LEAD	61.9	85.9	N-D	85.9
	MERCURY	.5	.9	N-D	.9

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 26

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
METALS	NICKEL	37.7	26.6	19.7	6.9
	SELENIUM	N-D	.5	N-D	.5
	SILVER	6.2	6.2	N-D	6.2
	ZINC	673	745	236	509
NON-CONV. METALS	ALUMINUM	3641	-	290	NOT RUN
	BARIUM	182	-	51.7	NOT RUN
	CALCIUM	114297	-	108063	NOT RUN
	IRON	6699	-	417	NOT RUN
	MAGNESIUM	25629	-	24667	NOT RUN
	MANGANESE	532	-	381	NOT RUN
	SODIUM	108111	-	107476	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 27

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	292541	88499	24801	63698
	TOTAL SUSP. SOLIDS	313679	156900	17755	139145
	COD	616084	296281	115269	181012
	OIL & GREASE	94132	56519	6200	50319
NON-CONVENTIONALS	TOTAL PHENOLS	65.9	15.1	13.2	1.9
	TOTAL SOLIDS	998248	760066	601710	158356
	TOTAL DISS. SOLIDS	684569	605688	587337	18351
	TOTAL VOLATILE SOLIDS	468686	273717	158953	114764
	VOLATILE DISS. SOLIDS	156135	156127	142325	13802
	TOTAL VOL. SUS. SOLIDS	253367	117590	16628	100962
	AMMONIA NITROGEN	32974	35604	33820	1784
	TOC	174736	72258	30438	41820
VOLATILES	BENZENE	2.5	.1	N-D	.1
	1,1,1-TRICHLOROETHANE	20.9	.3	.3	N-D
	1,1-DICHLOROETHANE	N-D	.1	N-D	.1
	CHLOROFORM	7.0	2.0	2.0	N-D
	1,1-DICHLOROETHYLENE	N-D	L 0.1	N-D	L 0.1
	1,2-TRANS-DICHLOROETHYLENE	2.3	1.3	N-D	1.3
	ETHYLBENZENE	141	7.8	N-D	7.8
	METHYLENE CHLORIDE	10.1	9.7	9.3	.4
	TRICHLOROFLUOROMETHANE	1.7	N-D	N-D	N-D
	TETRACHLOROETHYLENE	23.4	3.4	3.4	L 0.1
	TOLUENE	84.5	74.6	N-D	74.6
	TRICHLOROETHYLENE	44.0	L 0.1	N-D	L 0.1
ACID EXTRACT	2,4-DIMETHYLPHENOL	2.8	N-D	N-D	N-D
	PHENOL	N-D	.9	N-D	.9
BASE-NEUTRALS	HEXACHLOROETHANE	3.4	N-D	N-D	N-D
	1,2-DICHLOROBENZENE	N-D	.2	N-D	.2
	1,4-DICHLOROBENZENE	N-D	.4	N-D	.4
	FLUORANTHENE	N-D	.6	N-D	.6
	ISOPHORONE	6.5	N-D	N-D	N-D
	NAPHTHALENE	7.6	2.4	N-D	2.4
	BIS(2-ETHYLHEXYL) PHTHALATE	63.4	13.9	10.7	3.2
	BUTYL BENZYL PHTHALATE	24.8	3.2	N-D	3.2
	DI-N-BUTYL PHTHALATE	12.7	1.4	N-D	1.4
	DI-N-OCTYL PHTHALATE	N-D	L 0.1	N-D	L 0.1
	DIETHYL PHTHALATE	3.1	N-D	N-D	N-D
	DIMETHYL PHTHALATE	1.7	N-D	N-D	N-D
	1,2-BENZANTHRACENE	N-D	.2	N-D	.2
	BENZO (A)PYRENE	N-D	L 0.1	N-D	L 0.1
	3,4-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	11,12-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	CHRYSENE	N-D	.2	N-D	.2
	ANTHRACENE	2.0	4.8	N-D	4.8
	FLUORENE	N-D	2.0	N-D	2.0
	PHENANTHRENE	2.0	4.8	N-D	4.8
	PYRENE	N-D	.9	N-D	.9

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 27

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
METALS	ANTIMONY	N-D	2.1	N-D	2.1
	ARSENIC	N-D	.3	N-D	.3
	CADMIUM	N-D	.7	N-D	.7
	CHROMIUM	211	114	27.1	87.2
	COPPER	408	130	25.6	104
	CYANIDE	47.1	32.6	11.8	20.8
	LEAD	N-D	28.7	N-D	28.7
	MERCURY	1.0	.8	L 0.1	.7
	NICKEL	92.7	77.2	61.7	15.5
	SELENIUM	2.8	6.1	5.6	.5
	SILVER	8.5	3.7	N-D	3.7
	ZINC	668	267	95.8	171
NON-CONV. METALS	ALUMINUM	1527	-	65.1	NOT RUN
	BARIUM	537	-	99.8	NOT RUN
	CALCIUM	54393	-	48757	NOT RUN
	IRON	4540	-	512	NOT RUN
	MAGNESIUM	15501	-	13528	NOT RUN
	MANGANESE	231	-	187	NOT RUN
	SODIUM	85959	-	88777	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 28

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	336446	388323	11711	278346	98266
	TOTAL SUSP. SOLIDS	256784	908907	14171	674980	219756
	COD	893116	1538398	130686	1057777	349935
	OIL & GREASE	38598	172914	26964	131760	14190
NON-CONVENTIONALS	TOTAL PHENOLS	1470	114	34.2	66.6	13.5
	TOTAL SOLIDS	1093611	1722591	659332	809514	253745
	TOTAL DISS. SOLIDS	695837	-	633746	24410	NOT RUN
	TOTAL VOLATILE SOLIDS	457816	906479	118188	593566	194725
	VOLATILE DISS. SOLIDS	117295	-	77939	NOT RUN	NOT RUN
	TOTAL VOL. SUS. SOLIDS	201032	596667	11514	406837	178316
	AMMONIA NITROGEN	11151	9967	7676	1738	553
	TOC	258929	223616	36903	119740	66973
VOLATILES	BENZENE	144	8.5	N-D	8.5	L 0.1
	CARBON TETRACHLORIDE	84.5	28.7	9.3	18.8	.6
	CHLOROBENZENE	3.3	1.0	N-D	1.0	N-D
	1,2-DICHLOROETHANE	4234	2784	2610	104	69.5
	1,1,1-TRICHLOROETHANE	4230	675	503	127	44.7
	1,1-DICHLOROETHANE	1.3	.3	.3	N-D	N-D
	1,1,2-TRICHLOROETHANE	3.3	2.1	2.1	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	.8	N-D	N-D	N-D	N-D
	CHLOROFORM	75.6	44.1	34.6	6.4	3.1
	1,1-DICHLOROETHYLENE	19.8	1.4	1.4	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	7.2	17.5	.3	16.6	.6
	1,2-DICHLOROPROPANE	282	1.3	1.3	N-D	N-D
	ETHYLBENZENE	101	10.7	2.6	7.6	.5
	METHYLENE CHLORIDE	511	858	680	115	63.1
	METHYL CHLORIDE	206	61.9	61.9	N-D	N-D
	METHYL BROMIDE	57.7	N-D	N-D	N-D	N-D
	BROMOFORM	.6	1.4	1.4	N-D	N-D
	DICHLOROBROMOMETHANE	6.6	2.7	2.7	N-D	N-D
	TRICHLOROFLUOROMETHANE	23.7	.5	.5	N-D	N-D
	CHLORODIBROMOMETHANE	.3	1.0	1.0	N-D	N-D
	TETRACHLOROETHYLENE	1841	260	260	N-D	N-D
	TOLUENE	3117	140	5.4	133	2.2
	TRICHLOROETHYLENE	424	271	51.2	178	42.5
	VINYL CHLORIDE	9.9	N-D	N-D	N-D	N-D
ACID EXTRACT	2-NITROPHENOL	6.9	N-D	N-D	N-D	N-D
	PENTACHLOROPHENOL	3.0	1.2	1.2	N-D	N-D
	PHENOL	584	58.0	.4	48.9	8.7
BASE-NEUTRALS	HEXACHLOROETHANE	.6	N-D	N-D	N-D	N-D
	2-CHLORONAPHTHALENE	.8	N-D	N-D	N-D	N-D
	1,2-DICHLOROBENZENE	29.4	22.0	1.3	15.9	4.8
	1,4-DICHLOROBENZENE	2.5	N-D	N-D	N-D	N-D
	NAPHTHALENE	6.3	3.9	N-D	3.1	.8
	BIS(2-ETHYLHEXYL) PHTHALATE	84.1	518	27.9	374	116
	BUTYL BENZYL PHTHALATE	113	3.5	.8	2.5	.2
	DI-N-BUTYL PHTHALATE	31.1	.4	.4	N-D	N-D
	DI-N-OCTYL PHTHALATE	.9	1.6	1.6	N-D	N-D

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 28

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
BASE-NEUTRALS	DIETHYL PHTHALATE	3.3	N-D	N-D	N-D	N-D
	DIMETHYL PHTHALATE	.9	N-D	N-D	N-D	N-D
	PHENANTHRENE	N-D	1.3	N-D	1.0	.3
PESTICIDES	HEPTACHLOR	N-D	.1	.1	N-D	N-D
	ALPHA-BHC	.4	L 0.1	L 0.1	N-D	N-D
	DELTA-BHC	.2	.2	.2	N-D	N-D
METALS	ANTIMONY	N-D	7.4	N-D	6.2	1.2
	ARSENIC	N-D	3.0	N-D	2.2	.8
	BERYLLIUM	N-D	1.0	N-D	1.0	N-D
	CADMIUM	32.6	49.7	4.2	30.5	15.0
	CHROMIUM	109	268	23.6	185	59.0
	COPPER	1096	1900	76.4	1309	515
	CYANIDE	266	654	27.8	357	269
	LEAD	787	1083	20.1	777	286
	MERCURY	.4	3.0	L 0.1	1.6	1.3
	NICKEL	58.3	119	43.9	64.2	10.8
	SELENIUM	N-D	1.1	N-D	.8	.3
	SILVER	10.7	19.5	N-D	13.8	5.7
	ZINC	4612	6696	1539	4249	908
NON-CONV. METALS	ALUMINUM	1057	-	114	NOT RUN	NOT RUN
	BARIUM	180	-	37.8	NOT RUN	NOT RUN
	CALCIUM	53180	-	42512	NOT RUN	NOT RUN
	IRON	1976	-	478	NOT RUN	NOT RUN
	MAGNESIUM	15118	-	12793	NOT RUN	NOT RUN
	MANGANESE	151	-	120	NOT RUN	NOT RUN
	SODIUM	144421	-	133539	NOT RUN	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 29

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	8739	22689	2910	19779
	TOTAL SUSP. SOLIDS	4588	27675	2030	25645
	COD	23563	43934	12505	31429
	OIL & GREASE	1857	4579	672	3907
NON-CONVENTIONALS	TOTAL PHENOLS	3.6	4.4	3.9	.5
	TOTAL SOLIDS	41041	64916	37492	27424
	TOTAL DISS. SOLIDS	34624	32738	31880	858
	TOTAL VOLATILE SOLIDS	13568	25384	9217	16167
	VOLATILE DISS. SOLIDS	3511	3941	3566	375
	TOTAL VOL. SUS. SOLIDS	1654	15897	1528	14369
	AMMONIA NITROGEN	3137	-	NOT RUN	85.1
	TOC	4369	4201	2377	1824
VOLATILES	BENZENE	L 0.1	L 0.1	L 0.1	N-D
	CHLOROBENZENE	L 0.1	L 0.1	L 0.1	N-D
	1,2-DICHLOROETHANE	L 0.1	L 0.1	L 0.1	N-D
	1,1,1-TRICHLOROETHANE	1.6	1.6	1.6	N-D
	1,1-DICHLOROETHANE	L 0.1	.2	.2	L 0.1
	1,1,2-TRICHLOROETHANE	N-D	L 0.1	L 0.1	N-D
	1,1,2,2-TETRACHLOROETHANE	N-D	L 0.1	L 0.1	N-D
	CHLOROFORM	.5	1.2	1.2	N-D
	1,1-DICHLOROETHYLENE	.2	L 0.1	L 0.1	N-D
	1,2-TRANS-DICHLOROETHYLENE	.4	.5	.4	L 0.1
	ETHYLBENZENE	L 0.1	L 0.1	L 0.1	N-D
	METHYLENE CHLORIDE	8.7	4.0	3.9	L 0.1
	DICHLOROBROMOMETHANE	N-D	L 0.1	L 0.1	N-D
	DICHLORODIFLUOROMETHANE	5.8	N-D	N-D	N-D
	CHLORODIBROMOMETHANE	N-D	L 0.1	L 0.1	N-D
	TETRACHLOROETHYLENE	1.2	.5	.5	N-D
	TOLUENE	1.0	.7	.5	.2
	TRICHLOROETHYLENE	.5	.2	.2	N-D
ACID EXTRACT	2-CHLOROPHENOL	N-D	L 0.1	N-D	L 0.1
	PENTACHLOROPHENOL	.2	.2	.2	L 0.1
	PHENOL	.1	.2	L 0.1	.1
BASE-NEUTRALS	1,2,4-TRICHLOROBENZENE	N-D	.1	N-D	.1
	1,2-DICHLOROBENZENE	.2	.4	.1	.3
	1,3-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,4-DICHLOROBENZENE	.1	.2	L 0.1	.2
	FLUORANTHENE	L 0.1	1.3	N-D	1.3
	NAPHTHALENE	N-D	L 0.1	N-D	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	1.1	6.5	.9	5.6
	BUTYL BENZYL PHTHALATE	L 0.1	L 0.1	N-D	L 0.1
	DI-N-BUTYL PHTHALATE	.4	.3	.3	L 0.1
	DI-N-OCTYL PHTHALATE	N-D	L 0.1	N-D	L 0.1
	DIETHYL PHTHALATE	.1	L 0.1	N-D	L 0.1
	1,2-BENZANTHRACENE	N-D	.1	N-D	.1
	BENZO (A)PYRENE	N-D	L 0.1	N-D	L 0.1
	3,4-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	11,12-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 29

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
BASE-NEUTRALS	CHRYSENE	N-D	.1	N-D	.1
	ANTHRACENE	N-D	L 0.1	N-D	L 0.1
	1,12-BENZOPERYLENE	N-D	L 0.1	N-D	L 0.1
	PHENANTHRENE	N-D	L 0.1	N-D	L 0.1
	1,2:5,6-DIBENZANTHRACENE	N-D	L 0.1	N-D	L 0.1
	INDENO(1,2,3-C,D) PYRENE	N-D	L 0.1	N-D	L 0.1
	PYRENE	N-D	.2	N-D	.2
PESTICIDES	ALDRIN	L 0.1	N-D	N-D	N-D
	BETA-BHC	N-D	L 0.1	L 0.1	N-D
	GAMMA-BHC	L 0.1	L 0.1	L 0.1	N-D
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1
	ARSENIC	N-D	L 0.1	N-D	L 0.1
	CADMIUM	N-D	L 0.1	N-D	L 0.1
	CHROMIUM	1.5	2.7	.8	1.9
	COPPER	5.2	15.5	3.2	12.3
	CYANIDE	17.3	12.7	6.2	6.5
	LEAD	N-D	3.2	N-D	3.2
	MERCURY	L 0.1	.1	L 0.1	L 0.1
	NICKEL	.6	2.4	.6	1.8
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	.7	1.3	.4	.9
	ZINC	5.5	19.0	3.8	15.2
NON-CONV. METALS	ALUMINUM	36.9	-	28.0	NOT RUN
	BARIUM	6.6	-	5.1	NOT RUN
	CALCIUM	2770	-	2926	NOT RUN
	IRON	70.3	-	52.7	NOT RUN
	MAGNESIUM	531	-	540	NOT RUN
	MANGANESE	5.9	-	5.7	NOT RUN
	SODIUM	5056	-	5017	NOT RUN

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 30

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	TOTAL SLUDGE
CONVENTIONALS	BOD	50581	19377	3756	15621
	TOTAL SUSP. SOLIDS	9102	32510	1124	31386
	COD	89018	53565	15846	37719
	OIL & GREASE	3701	3061	768	2293
NON-CONVENTIONALS	TOTAL PHENOLS	159	26.9	22.9	4.0
	TOTAL SOLIDS	116077	138927	99408	39519
	TOTAL VOLATILE SOLIDS	19876	38043	14283	23760
	TOTAL VOL. SUS. SOLIDS	5785	19881	658	19223
	AMMONIA NITROGEN	2330	1141	1042	98.9
	TOC	22015	10748	4633	6115
VOLATILES	BENZENE	33.4	.3	.2	L 0.1
	CHLOROBENZENE	45.3	.6	.4	.2
	1,2-DICHLOROETHANE	2696	304	296	7.7
	1,1,2-TRICHLOROETHANE	2.8	N-D	N-D	N-D
	CHLOROETHANE	.5	N-D	N-D	N-D
	2-CHLOROETHYL VINYL ETHER	.1	N-D	N-D	N-D
	CHLOROFORM	6.2	.8	.8	L 0.1
	1,2-TRANS-DICHLOROETHYLENE	L 0.1	L 0.1	N-D	L 0.1
	ETHYLBENZENE	3.5	.2	.1	L 0.1
	METHYLENE CHLORIDE	1.1	1.5	1.5	L 0.1
	METHYL CHLORIDE	50.9	10.4	10.4	N-D
	METHYL BROMIDE	.5	N-D	N-D	N-D
	BROMOFORM	1.2	.3	.3	N-D
	DICHLOROBROMOMETHANE	.1	.2	.2	N-D
	CHLORODIBROMOMETHANE	N-D	.3	.3	N-D
	TETRACHLOROETHYLENE	.2	L 0.1	N-D	L 0.1
	TOLUENE	127	3.9	.6	3.3
	TRICHLOROETHYLENE	.4	L 0.1	N-D	L 0.1
	VINYL CHLORIDE	11.5	N-D	N-D	N-D
ACID EXTRACT	PENTACHLOROPHENOL	L 0.1	N-D	N-D	N-D
	PHENOL	20.3	.7	.3	.4
BASE-NEUTRALS	1,2-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,4-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,2-DIPHENYLHYDRAZINE	.7	N-D	N-D	N-D
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	NAPHTHALENE	N-D	L 0.1	N-D	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	2.3	3.7	1.5	2.2
	BUTYL BENZYL PHTHALATE	.2	N-D	N-D	N-D
	DI-N-BUTYL PHTHALATE	.5	.3	.3	N-D
	DI-N-OCTYL PHTHALATE	N-D	L 0.1	N-D	L 0.1
	DIMETHYL PHTHALATE	.1	N-D	N-D	N-D
	1,2-BENZANTHRACENE	N-D	L 0.1	N-D	L 0.1
	3,4-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	11,12-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	CHRYSENE	N-D	L 0.1	N-D	L 0.1
	ANTHRACENE	N-D	L 0.1	N-D	L 0.1
	PHENANTHRENE	N-D	L 0.1	N-D	L 0.1
	PYRENE	N-D	L 0.1	N-D	L 0.1

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MASS BALANCE IN POUNDS PER DAY

PLANT 30

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	TOTAL SLUDGE
PESTICIDES	ALDRIN	L 0.1	N-D	N-D	N-D
	HEPTACHLOR	N-D	L 0.1	L 0.1	N-D
	ALPHA-BHC	L 0.1	L 0.1	L 0.1	N-D
	GAMMA-BHC	L 0.1	N-D	N-D	N-D
	DELTA-BHC	L 0.1	L 0.1	L 0.1	N-D
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1
	ARSENIC	N-D	.7	N-D	.7
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	N-D	L 0.1	N-D	L 0.1
	CHROMIUM	67.5	32.3	9.8	22.5
	COPPER	3.2	16.1	N-D	16.1
	CYANIDE	258	35.6	22.0	13.6
	LEAD	N-D	6.5	N-D	6.5
	MERCURY	L 0.1	L 0.1	N-D	L 0.1
	NICKEL	8.1	4.5	2.7	1.8
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	L 0.1	.5	N-D	.5
	ZINC	455	363	5.9	357
NON-CONV. METALS	ALUMINUM	262	-	13.0	NOT RUN
	BARIUM	7.1	-	1.9	NOT RUN
	CALCIUM	13571	-	12447	NOT RUN
	IRON	208	-	55.4	NOT RUN
	MAGNESIUM	1151	-	1179	NOT RUN
	MANGANESE	212	-	172	NOT RUN
	SODIUM	13187	-	13324	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D NOT DETECTED L LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 31

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	37752	39243	3139	36104
	TOTAL SUSP. SOLIDS	34875	78916	4839	74077
	COD	105497	177746	23977	153769
	OIL & GREASE	7760	12670	1351	11319
NON-CONVENTIONALS	TOTAL PHENOLS	67.1	30.9	23.1	7.8
	TOTAL SOLIDS	123283	167263	86272	80991
	TOTAL DISS. SOLIDS	73019	98104	91765	6339
	TOTAL VOLATILE SOLIDS	53402	77370	18440	58930
	VOLATILE DISS. SOLIDS	17002	17792	15258	[illegible]
	TOTAL VOL. SUS. SOLIDS	28467	51984	3967	48017
	AMMONIA NITROGEN	1308	1409	1264	145
	TOC	21579	18321	6452	11869
VOLATILES	BENZENE	3.0	.7	.7	L 0.1
	1,2-DICHLOROETHANE	.3	L 0.1	N-D	L 0.1
	1,1,1-TRICHLOROETHANE	5.7	1.2	.9	.3
	1,1-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	1,1,2-TRICHLOROETHANE	.3	N-D	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	CHLOROFORM	1.5	.4	.3	L 0.1
	1,1-DICHLOROETHYLENE	L 0.1	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	1.9	1.3	L 0.1	1.2
	ETHYLBENZENE	1.6	.2	N-D	.2
	METHYLENE CHLORIDE	456	442	442	.3
	TETRACHLOROETHYLENE	14.5	2.0	2.0	N-D
	TOLUENE	8.2	2.1	1.1	1.0
	TRICHLOROETHYLENE	6.4	1.0	.2	.8
ACID EXTRACT	PENTACHLOROPHENOL	L 0.1	.2	.2	N-D
	PHENOL	15.4	6.6	L 0.1	6.6
BASE-NEUTRALS	ACENAPHTHENE	1.8	N-D	N-D	N-D
	1,2-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,3-DICHLOROBENZENE	22.1	N-D	N-D	N-D
	1,4-DICHLOROBENZENE	N-D	.1	N-D	.1
	1,2-DIPHENYLHYDRAZINE	N-D	L 0.1	L 0.1	N-D
	FLUORANTHENE	L 0.1	.6	N-D	.6
	ISOPHORONE	N-D	L 0.1	L 0.1	N-D
	NAPHTHALENE	5.4	.8	.1	.7
	BIS(2-ETHYLHEXYL) PHTHALATE	6.5	34.2	13.2	21.0
	BUTYL BENZYL PHTHALATE	.2	4.0	.3	3.7
	DI-N-BUTYL PHTHALATE	5.8	31.1	5.6	25.5
	DIETHYL PHTHALATE	1.4	.5	.4	.1
	DIMETHYL PHTHALATE	5.9	N-D	N-D	N-D
	CHRYSENE	N-D	.6	N-D	.6
	ANTHRACENE	.2	L 0.1	L 0.1	N-D
	PHENANTHRENE	.2	1.0	L 0.1	1.0
	PYRENE	N-D	.5	N-D	.5
METALS	ANTIMONY	2.4	3.1	1.3	1.8
	ARSENIC	.9	1.4	.8	.6

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MASS BALANCE IN POUNDS PER DAY

PLANT 31

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
METALS	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	N-D	.9	N-D	.9
	CHROMIUM	26.5	51.6	9.5	42.1
	COPPER	57.8	56.2	12.8	43.4
	CYANIDE	131	71.4	38.6	32.8
	LEAD	4.2	56.9	N-D	56.9
	MERCURY	.2	L 0.1	N-D	L 0.1
	NICKEL	1.4	2.0	.4	1.6
	SELENIUM	.7	.4	.4	L 0.1
	SILVER	1.4	2.1	.1	2.0
	ZINC	31.5	35.7	10.3	25.4
NON-CONV. METALS	ALUMINUM	566	-	66.6	NOT RUN
	BARIUM	13.9	-	4.9	NOT RUN
	BORON	108	-	78.7	NOT RUN
	CALCIUM	4665	-	4665	NOT RUN
	IRON	331	-	190	NOT RUN
	MAGNESIUM	785	-	785	NOT RUN
	MANGANESE	52.3	-	49.8	NOT RUN
	SODIUM	16653	-	18004	NOT RUN
	TIN	26.7	-	13.6	NOT RUN
	TITANIUM	4.9	-	.5	NOT RUN
	VANADIUM	1.0	-	.6	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED.

MASS BALANCE IN POUNDS PER DAY

PLANT 32

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	12213	10241	956	3812	5473
	TOTAL SUSP. SOLIDS	8962	15574	1189	10072	4313
	COD	30874	25479	4781	5009	15689
	OIL & GREASE	3975	2549	519	538	1492
NON-CONVENTIONALS	TOTAL PHENOLS	7.8	5.1	3.6	.4	1.1
	TOTAL SOLIDS	38825	37267	28320	3220	5727
	TOTAL DISS. SOLIDS	24863	-	26189	NOT RUN	NOT RUN
	TOTAL VOLATILE SOLIDS	17459	12029	5956	1920	4153
	TOTAL VOL. SUS. SOLIDS	6598	8266	902	4090	3274
	AMMONIA NITROGEN	560	225	205	8.8	10.7
	TOC	7281	3645	1803	454	1388
VOLATILES	BENZENE	3.8	1.2	1.2	N-D	L 0.1
	1,2-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	1,1,1-TRICHLOROETHANE	18.4	.1	.1	N-D	N-D
	1,1-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	CHLOROFORM	.5	.3	.3	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	.9	L 0.1	N-D	L 0.1	N-D
	ETHYLBENZENE	1.2	L 0.1	N-D	L 0.1	L 0.1
	METHYLENE CHLORIDE	969	859	859	L 0.1	L 0.1
	TRICHLOROFLUOROMETHANE	L 0.1	L 0.1	L 0.1	N-D	N-D
	TETRACHLOROETHYLENE	.2	L 0.1	N-D	L 0.1	N-D
	TOLUENE	.6	5.0	.1	2.1	2.8
	TRICHLOROETHYLENE	.5	L 0.1	N-D	L 0.1	N-D
ACID EXTRACT	PENTACHLOROPHENOL	L 0.1	L 0.1	N-D	L 0.1	L 0.1
	PHENOL	N-D	.2	N-D	L 0.1	.1
BASE-NEUTRALS	ACENAPHTHENE	L 0.1	N-D	N-D	N-D	N-D
	1,2,4-TRICHLOROBENZENE	62.9	5.8	5.0	.4	.4
	HEXACHLOROBENZENE	L 0.1	N-D	N-D	N-D	N-D
	2-CHLORONAPHTHALENE	L 0.1	N-D	N-D	N-D	N-D
	1,2-DICHLOROBENZENE	1.5	L 0.1	L 0.1	L 0.1	N-D
	1,3-DICHLOROBENZENE	L 0.1	N-D	N-D	N-D	N-D
	1,4-DICHLOROBENZENE	1.3	L 0.1	N-D	L 0.1	N-D
	1,2-DIPHENYLHYDRAZINE	L 0.1	N-D	N-D	N-D	N-D
	FLUORANTHENE	.2	L 0.1	N-D	L 0.1	L 0.1
	4-BROMOPHENYL PHENYL ETHER	L 0.1	N-D	N-D	N-D	N-D
	ISOPHORONE	.2	N-D	N-D	N-D	N-D
	NAPHTHALENE	1.4	L 0.1	L 0.1	L 0.1	N-D
	N-NITROSODIPHENYLAMINE	.3	N-D	N-D	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	4.5	3.4	.8	.7	1.9
	BUTYL BENZYL PHTHALATE	1.6	L 0.1	N-D	L 0.1	L 0.1
	DI-N-BUTYL PHTHALATE	1.1	.3	.3	N-D	L 0.1
	DI-N-OCTYL PHTHALATE	.4	L 0.1	N-D	L 0.1	L 0.1
	DIETHYL PHTHALATE	2.0	L 0.1	L 0.1	L 0.1	L 0.1
	DIMETHYL PHTHALATE	.2	N-D	N-D	N-D	N-D
	1,2-BENZANTHRACENE	.3	L 0.1	N-D	L 0.1	L 0.1
	CHRYSENE	.3	L 0.1	N-D	L 0.1	L 0.1
	ANTHRACENE	.3	L 0.1	N-D	L 0.1	N-D
	FLUORENE	L 0.1	N-D	N-D	N-D	N-D

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D NOT DETECTED; L LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 32

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
BASE-NEUTRALS	PHENANTHRENE	.3	L 0.1	N-D	L 0.1	N-D
	PYRENE	.2	L 0.1	N-D	L 0.1	L 0.1
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1	L 0.1
	ARSENIC	N-D	.1	N-D	L 0.1	.1
	CADMIUM	N-D	.1	N-D	L 0.1	L 0.1
	CHROMIUM	8.9	10.9	4.1	1.9	4.9
	COPPER	8.6	10.5	3.6	1.8	5.1
	CYANIDE	37.0	32.2	26.4	2.2	3.6
	LEAD	4.2	6.3	N-D	1.5	4.8
	MERCURY	N-D	L 0.1	N-D	L 0.1	L 0.1
	NICKEL	7.1	8.1	5.7	.7	1.7
	SELENIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	SILVER	.5	1.4	.2	.2	1.0
	ZINC	19.0	16.1	10.6	2.0	3.5
NON-CONV. METALS	ALUMINUM	157	-	30.6	NOT RUN	NOT RUN
	BARIUM	7.3	-	1.8	NOT RUN	NOT RUN
	BORON	9.5	-	7.7	NOT RUN	NOT RUN
	CALCIUM	1038	-	1626	NOT RUN	NOT RUN
	COBALT	L 0.1	-	N-D	NOT RUN	NOT RUN
	IRON	164	-	30.2	NOT RUN	NOT RUN
	MAGNESIUM	178	-	396	NOT RUN	NOT RUN
	MANGANESE	16.4	-	10.2	NOT RUN	NOT RUN
	SODIUM	5082	-	5601	NOT RUN	NOT RUN
	TIN	2.0	-	N-D	NOT RUN	NOT RUN
	TITANIUM	1.9	-	.2	NOT RUN	NOT RUN
	VANADIUM	.4	-	N-D	NOT RUN	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 33

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	1644	1921	125	1345	451
	TOTAL SUSP. SOLIDS	449	1198	194	717	287
	COD	3449	3264	528	2116	620
	OIL & GREASE	630	387	97.9	209	79.5
NON-CONVENTIONALS	TOTAL PHENOLS	2.5	.8	.7	L 0.1	L 0.1
	TOTAL SOLIDS	12129	13035	10854	1654	527
	TOTAL DISS. SOLIDS	10672	10985	10731	152	102
	TOTAL VOLATILE SOLIDS	6780	6646	5312	1056	278
	VOLATILE DISS. SOLIDS	2266	1997	1815	113	69.3
	TOTAL VOL. SUS. SOLIDS	271	769	107	486	176
	AMMONIA NITROGEN	162	134	130	1.2	3.1
	TOC	468	495	282	155	58.5
VOLATILES	BENZENE	L 0.1	L 0.1	N-D	L 0.1	L 0.1
	1,1,1-TRICHLOROETHANE	L 0.1	N-D	N-D	N-D	N-D
	1,1-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	CHLOROFORM	L 0.1	L 0.1	L 0.1	L 0.1	N-D
	1,2-TRANS-DICHLOROETHYLENE	N-D	L 0.1	N-D	L 0.1	N-D
	ETHYLBENZENE	L 0.1	L 0.1	N-D	L 0.1	L 0.1
	METHYLENE CHLORIDE	L 0.1	L 0.1	L 0.1	L 0.1	L 0.1
	TETRACHLOROETHYLENE	L 0.1	L 0.1	L 0.1	L 0.1	L 0.1
	TOLUENE	L 0.1	L 0.1	L 0.1	L 0.1	L 0.1
	TRICHLOROETHYLENE	L 0.1	L 0.1	N-D	L 0.1	L 0.1
ACID EXTRACT	PENTACHLOROPHENOL	L 0.1	L 0.1	L 0.1	L 0.1	L 0.1
	PHENOL	L 0.1	L 0.1	L 0.1	L 0.1	L 0.1
BASE-NEUTRALS	1,4-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	NAPHTHALENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	.1	.1	L 0.1	L 0.1	L 0.1
	BUTYL BENZYL PHTHALATE	L 0.1	L 0.1	N-D	L 0.1	L 0.1
	DI-N-BUTYL PHTHALATE	L 0.1	L 0.1	N-D	L 0.1	L 0.1
	DIETHYL PHTHALATE	N-D	L 0.1	N-D	N-D	L 0.1
	1,2-BENZANTHRACENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	3,4-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	11,12-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	CHRYSENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	ANTHRACENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	PHENANTHRENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	PYRENE	N-D	L 0.1	N-D	L 0.1	L 0.1
PESTICIDES	ALPHA-ENDOSULFAN	L 0.1	N-D	N-D	N-D	N-D
	HEPTACHLOR	L 0.1	N-D	N-D	N-D	N-D
	ALPHA-BHC	N-D	L 0.1	L 0.1	N-D	N-D
	BETA-BHC	N-D	L 0.1	L 0.1	N-D	N-D
	GAMMA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1	L 0.1
	ARSENIC	N-D	L 0.1	N-D	L 0.1	L 0.1
	CADMIUM	N-D	L 0.1	N-D	L 0.1	L 0.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 33

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	CHROMIUM	L 0.1	L 0.1	N-D	L 0.1	L 0.1
	COPPER	.5	.3	L 0.1	.3	L 0.1
	CYANIDE	27.5	1.9	1.1	.6	.2
	LEAD	N-D	.3	N-D	.2	L 0.1
	MERCURY	N-D	L 0.1	N-D	L 0.1	N-D
	NICKEL	N-D	L 0.1	N-D	L 0.1	L 0.1
	SELENIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	SILVER	N-D	L 0.1	N-D	L 0.1	L 0.1
	ZINC	1.4	.9	N-D	.9	L 0.1
NON-CONV. METALS	ALUMINUM	6.3	-	18.3	NOT RUN	NOT RUN
	BARIUM	1.6	-	.4	NOT RUN	NOT RUN
	CALCIUM	1183	-	1127	NOT RUN	NOT RUN
	IRON	9.6	-	2.1	NOT RUN	NOT RUN
	MAGNESIUM	349	-	342	NOT RUN	NOT RUN
	MANGANESE	.6	-	.5	NOT RUN	NOT RUN
	SODIUM	1498	-	1514	NOT RUN	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D-NOT DETECTED: L-LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 34

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	33535	67160	529	10681	55950
	TOTAL SUSP. SOLIDS	13152	34623	1332	20513	12778
	COD	83309	88126	9896	47756	30474
	OIL & GREASE	6935	6177	317	5133	727
NON-CONVENTIONALS	TOTAL PHENOLS	45.8	7.8	6.9	.4	.5
	TOTAL SOLIDS	192117	219441	156045	32682	30714
	TOTAL DISS. SOLIDS	140504	165012	142724	6779	15509
	TOTAL VOLATILE SOLIDS	51254	68516	31547	17396	19573
	VOLATILE DISS. SOLIDS	25690	36748	21250	4702	10796
	TOTAL VOL. SUS. SOLIDS	7697	25690	677	13882	11131
	AMMONIA NITROGEN	2643	594	550	28.7	14.6
	TOC	11841	8348	2833	3832	1683
VOLATILES	BENZENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	1,1,1-TRICHLOROETHANE	.3	N-D	N-D	N-D	N-D
	1,1-DICHLOROETHANE	.1	L 0.1	N-D	L 0.1	N-D
	CHLOROETHANE	N-D	.1	.1	N-D	N-D
	CHLOROFORM	L 0.1	.4	.4	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	1.1	.3	N-D	.3	L 0.1
	ETHYLBENZENE	L 0.1	L 0.1	N-D	L 0.1	N-D
	METHYLENE CHLORIDE	.6	.2	.2	L 0.1	N-D
	DICHLOROBROMOMETHANE	N-D	L 0.1	L 0.1	N-D	N-D
	TETRACHLOROETHYLENE	.6	.2	.2	N-D	L 0.1
	TOLUENE	.7	.1	L 0.1	L 0.1	L 0.1
	TRICHLOROETHYLENE	5.0	N-D	N-D	N-D	N-D
ACID EXTRACT	PENTACHLOROPHENOL	N-D	L 0.1	N-D	N-D	L 0.1
	PHENOL	.9	1.8	N-D	L 0.1	1.7
BASE-NEUTRALS	1,2-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1	N-D
	1,3-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1	N-D
	1,4-DICHLOROBENZENE	.2	L 0.1	N-D	L 0.1	N-D
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	NAPHTHALENE	N-D	L 0.1	N-D	L 0.1	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	1.2	2.1	.5	.6	1.0
	BUTYL BENZYL PHTHALATE	.3	L 0.1	N-D	L 0.1	L 0.1
	DI-N-OCTYL PHTHALATE	N-D	L 0.1	N-D	L 0.1	L 0.1
	DIETHYL PHTHALATE	.1	L 0.1	N-D	N-D	L 0.1
	DIMETHYL PHTHALATE	N-D	L 0.1	N-D	N-D	L 0.1
	1,2-BENZANTHRACENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	BENZO (A)PYRENE	N-D	L 0.1	N-D	N-D	L 0.1
	3,4-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1	N-D
	11,12-BENZOFLUORANTHENE	N-D	L 0.1	N-D	L 0.1	N-D
	CHRYSENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	ANTHRACENE	N-D	L 0.1	N-D	L 0.1	N-D
	FLUORENE	N-D	L 0.1	N-D	L 0.1	N-D
	PHENANTHRENE	N-D	L 0.1	N-D	L 0.1	N-D
	PYRENE	N-D	L 0.1	N-D	L 0.1	L 0.1
PESTICIDES	GAMMA-BHC	N-D	L 0.1	L 0.1	N-D	N-D

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 34

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1	L 0.1
	ARSENIC	N-D	.2	N-D	.1	.1
	CADMIUM	.4	L 0.1	N-D	L 0.1	L 0.1
	CHROMIUM	54.2	13.8	3.6	3.3	6.9
	COPPER	19.3	15.8	3.4	4.6	7.8
	CYANIDE	168	80.9	48.5	21.9	10.5
	LEAD	16.7	28.0	N-D	7.1	20.9
	MERCURY	.1	L 0.1	L 0.1	L 0.1	L 0.1
	NICKEL	139	42.9	26.1	7.6	9.2
	SELENIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	SILVER	.7	.4	N-D	.1	.3
	ZINC	35.9	61.3	5.6	19.5	36.2
NON-CONV. METALS	ALUMINUM	247	-	9.0	NOT RUN	NOT RUN
	BARIUM	21.6	-	5.5	NOT RUN	NOT RUN
	CALCIUM	15731	-	14188	NOT RUN	NOT RUN
	IRON	476	-	9.6	NOT RUN	NOT RUN
	MAGNESIUM	4715	-	4609	NOT RUN	NOT RUN
	MANGANESE	24.7	-	5.7	NOT RUN	NOT RUN
	SODIUM	28777	-	28672	NOT RUN	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 35

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	44314	14011	8393	2416	3202
	TOTAL SUSP. SOLIDS	29276	15164	4296	5236	5632
	COD	99419	42728	29476	6692	6560
	OIL & GREASE	9742	1554	550	702	302
NON-CONVENTIONALS	TOTAL PHENOLS	10.5	6.7	6.4	.2	L 0.1
	TOTAL SOLIDS	191643	148290	137188	3895	7207
	TOTAL DISS. SOLIDS	122650	110343	109011	536	796
	TOTAL VOLATILE SOLIDS	50759	34671	26778	294	7599
	VOLATILE DISS. SOLIDS	30575	24064	23131	321	612
	TOTAL VOL. SUS. SOLIDS	19134	9298	2848	2856	3594
	AMMONIA NITROGEN	2248	1969	1948	14.2	6.9
	TOC	16387	6224	5346	363	515
VOLATILES	BENZENE	.3	L 0.1	N-D	N-D	L 0.1
	1,2-DICHLOROETHANE	1.9	N-D	N-D	N-D	N-D
	1,1,1-TRICHLOROETHANE	1.5	N-D	N-D	N-D	N-D
	1,1-DICHLOROETHANE	.5	.3	.3	N-D	N-D
	CHLOROFORM	1.9	L 0.1	L 0.1	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	2.7	.1	L 0.1	L 0.1	L 0.1
	1,2-DICHLOROPROPANE	L 0.1	N-D	N-D	N-D	N-D
	ETHYLBENZENE	1.4	L 0.1	L 0.1	L 0.1	L 0.1
	METHYLENE CHLORIDE	6.8	7.8	7.8	L 0.1	L 0.1
	TETRACHLOROETHYLENE	.5	N-D	N-D	N-D	N-D
	TOLUENE	3.8	13.4	.4	12.2	.8
	TRICHLOROETHYLENE	1.3	L 0.1	L 0.1	L 0.1	L 0.1
ACID EXTRACT	PENTACHLOROPHENOL	.7	N-D	N-D	N-D	N-D
	PHENOL	.4	N-D	N-D	N-D	N-D
BASE-NEUTRALS	1,2-DICHLOROBENZENE	.5	L 0.1	N-D	L 0.1	L 0.1
	1,3-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	NAPHTHALENE	N-D	L 0.1	N-D	L 0.1	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	2.3	1.4	N-D	.7	.7
	BUTYL BENZYL PHTHALATE	.5	L 0.1	N-D	L 0.1	N-D
	DI-N-BUTYL PHTHALATE	.8	N-D	N-D	N-D	N-D
	DIETHYL PHTHALATE	.3	N-D	N-D	N-D	N-D
	PYRENE	N-D	L 0.1	N-D	L 0.1	L 0.1
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1	L 0.1
	ARSENIC	N-D	L 0.1	N-D	L 0.1	L 0.1
	CADMIUM	.1	.3	.2	L 0.1	.1
	CHROMIUM	32.6	7.0	4.3	1.7	1.0
	COPPER	16.3	10.2	7.2	1.7	1.3
	CYANIDE	350	50.8	45.4	1.1	4.3
	LEAD	8.9	5.2	N-D	3.4	1.8
	MERCURY	.2	L 0.1	L 0.1	N-D	N-D
	NICKEL	N-D	2.4	N-D	1.4	1.0
	SELENIUM	N-D	L 0.1	N-D	N-D	L 0.1
	SILVER	N-D	.1	N-D	L 0.1	L 0.1
	THALLIUM	N-D	L 0.1	N-D	N-D	L 0.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 35

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	ZINC	52.2	26.8	17.4	6.3	3.1
NON-CONV. METALS	ALUMINUM	304	-	65.1	NOT RUN	NOT RUN
	BARIUM	24.7	-	9.1	NOT RUN	NOT RUN
	CALCIUM	15337	-	13989	NOT RUN	NOT RUN
	IRON	474	-	156	NOT RUN	NOT RUN
	MAGNESIUM	5196	-	4946	NOT RUN	NOT RUN
	MANGANESE	77.3	-	64.9	NOT RUN	NOT RUN
	SODIUM	19884	-	18635	NOT RUN	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

MASS BALANCE IN POUNDS PER DAY

PLANT 36

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	154001	443617	27606	35763	380248
	TOTAL SUSP. SOLIDS	115766	216437	11982	56542	147913
	COD	345174	366395	70203	97072	199120
	OIL & GREASE	31744	18221	823	12384	5014
NON-CONVENTIONALS	TOTAL PHENOLS	333	82.8	67.7	2.0	13.1
	TOTAL SOLIDS	535758	614493	368963	72727	172803
	TOTAL DISS. SOLIDS	360338	410600	331486	6603	72511
	TOTAL VOLATILE SOLIDS	126977	198889	71365	35953	91571
	VOLATILE DISS. SOLIDS	69448	108986	64608	3798	40580
	TOTAL VOL. SUS. SOLIDS	70392	156372	8340	35131	112901
	AMMONIA NITROGEN	7140	4562	4012	34.4	516
	TOC	64905	34678	15730	2155	16793
VOLATILES	BENZENE	4.8	.6	.5	L 0.1	L 0.1
	CHLOROBENZENE	.4	L 0.1	N-D	L 0.1	L 0.1
	1,1,1-TRICHLOROETHANE	15.2	.5	.5	N-D	N-D
	1,1-DICHLOROETHANE	.2	L 0.1	N-D	L 0.1	N-D
	CHLOROFORM	27.1	7.9	7.6	L 0.1	.3
	1,2-TRANS-DICHLOROETHYLENE	.7	L 0.1	N-D	L 0.1	N-D
	ETHYLBENZENE	49.0	1.1	.4	.5	.2
	METHYLENE CHLORIDE	566	4.4	4.0	L 0.1	.3
	DICHLOROBROMOMETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	TRICHLOROFLUOROMETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	DICHLORODIFLUOROMETHANE	N-D	L 0.1	N-D	L 0.1	L 0.1
	TETRACHLOROETHYLENE	28.7	2.1	.8	.5	.8
	TOLUENE	277	22.9	17.7	2.8	2.4
	TRICHLOROETHYLENE	3.4	1.8	L 0.1	1.6	L 0.1
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	1.0	.5	.5	N-D	N-D
	2,4-DICHLOROPHENOL	.6	.5	.5	N-D	N-D
	2,4-DIMETHYLPHENOL	N-D	1.0	1.0	N-D	N-D
	PENTACHLOROPHENOL	2.2	1.0	1.0	N-D	N-D
	PHENOL	159	9.4	8.0	.2	1.2
BASE-NEUTRALS	ACENAPHTHENE	N-D	.6	.6	N-D	N-D
	1,2,4-TRICHLOROBENZENE	35.5	7.6	2.5	4.5	.6
	1,2-DICHLOROBENZENE	2.5	.2	.2	N-D	N-D
	1,3-DICHLOROBENZENE	.1	.2	N-D	.2	N-D
	1,4-DICHLOROBENZENE	1.5	.3	N-D	.3	N-D
	FLUORANTHENE	L 0.1	.2	N-D	.2	N-D
	NAPHTHALENE	19.5	4.1	2.5	1.3	.3
	BIS(2-ETHYLHEXYL) PHTHALATE	4.8	19.3	2.6	7.1	9.6
	BUTYL BENZYL PHTHALATE	1.1	.9	.3	.6	N-D
	DI-N-BUTYL PHTHALATE	1.5	1.1	.5	.6	N-D
	DIETHYL PHTHALATE	2.0	.8	.8	N-D	N-D
	DIMETHYL PHTHALATE	N-D	.2	.2	N-D	N-D
	1,2-BENZANTHRACENE	N-D	L 0.1	N-D	L 0.1	N-D
	CHRYSENE	N-D	L 0.1	N-D	L 0.1	N-D
	ANTHRACENE	.2	.8	N-D	.5	.3
	PHENANTHRENE	1.2	.9	.1	.5	.3
	PYRENE	.1	.3	N-D	.3	N-D

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L-LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 36

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
PESTICIDES	ALPHA-ENDOSULFAN	.2	N-D	N-D	N-D	N-D
	ALPHA-BHC	.3	N-D	N-D	N-D	N-D
	GAMMA-BHC	.3	L 0.1	L 0.1	N-D	N-D
METALS	ANTIMONY	4.2	2.5	1.7	.1	.7
	ARSENIC	3.0	2.4	1.3	.3	.8
	BERYLLIUM	.1	1.1	N-D	.1	1.0
	CADMIUM	3.4	2.2	1.9	.1	.2
	CHROMIUM	80.1	63.3	12.2	7.4	43.7
	COPPER	43.5	32.1	3.3	12.2	16.6
	CYANIDE	1680	185	36.4	58.3	91.5
	LEAD	48.2	55.3	20.1	16.5	18.7
	MERCURY	.1	.2	N-D	L 0.1	.2
	NICKEL	34.8	36.5	25.8	3.4	7.3
	SELENIUM	1.1	1.2	1.0	L 0.1	.2
	SILVER	7.6	7.0	.7	1.1	5.2
	THALLIUM	.5	.4	.4	N-D	N-D
	ZINC	172	193	29.9	40.9	122
NON-CONV. METALS	ALUMINUM	2595	-	272	NOT RUN	NOT RUN
	BARIUM	61.2	-	10.1	NOT RUN	NOT RUN
	BORON	79.2	-	99.8	NOT RUN	NOT RUN
	CALCIUM	15459	-	11190	NOT RUN	NOT RUN
	COBALT	8.6	-	7.3	NOT RUN	NOT RUN
	IRON	1511	-	157	NOT RUN	NOT RUN
	MAGNESIUM	3245	-	2375	NOT RUN	NOT RUN
	MANGANESE	79.5	-	39.6	NOT RUN	NOT RUN
	MOLYBDENUM	4.7	-	N-D	NOT RUN	NOT RUN
	SODIUM	126269	-	111481	NOT RUN	NOT RUN
	TIN	23.5	-	17.7	NOT RUN	NOT RUN
	TITANIUM	16.4	-	.2	NOT RUN	NOT RUN
	VANADIUM	1.8	-	.1	NOT RUN	NOT RUN
	YTTRIUM	1.1	-	N-D	NOT RUN	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D-NOT DETECTED; L-LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 37

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	TOTAL EFFLUENT	TOTAL SLUDGE
CONVENTIONALS	BOD	187896	116456	24250	92206
	TOTAL SUSP. SOLIDS	128059	93177	5982	87195
	COD	331276	267499	54644	212855
	OIL & GREASE	23914	13659	2954	10705
NON-CONVENTIONALS	TOTAL PHENOLS	29.5	4.8	4.1	.7
	TOTAL SOLIDS	813490	716924	587376	129548
	TOTAL DISS. SOLIDS	693920	-	549734	NOT RUN
	TOTAL VOLATILE SOLIDS	219263	181735	99224	82511
	VOLATILE DISS. SOLIDS	149799	116370	86894	29476
	TOTAL VOL. SUS. SOLIDS	107044	75264	5108	70156
	AMMONIA NITROGEN	14493	9905	9360	545
	TOC	61079	30121	11220	18901
VOLATILES	BENZENE	7.4	L 0.1	N-D	L 0.1
	CHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,2-DICHLOROETHANE	.1	N-D	N-D	N-D
	1,1,1-TRICHLOROETHANE	77.5	5.6	4.9	.7
	1,1-DICHLOROETHANE	2.6	L 0.1	N-D	L 0.1
	1,1,2,2-TETRACHLOROETHANE	N-D	1.5	N-D	1.5
	CHLOROFORM	4.6	.7	.7	L 0.1
	1,1-DICHLOROETHYLENE	1.1	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	.1	L 0.1	N-D	L 0.1
	ETHYLBENZENE	5.7	2.7	2.5	.2
	METHYLENE CHLORIDE	93.1	21.1	19.8	1.3
	DICHLOROBROMOMETHANE	N-D	L 0.1	N-D	L 0.1
	DICHLORODIFLUOROMETHANE	4.3	N-D	N-D	N-D
	TETRACHLOROETHYLENE	27.7	6.7	5.3	1.4
	TOLUENE	33.2	.9	.4	.5
	TRICHLOROETHYLENE	52.7	1.9	.9	1.0
ACID EXTRACT	PHENOL	3.2	2.0	N-D	2.0
BASE-NEUTRALS	1,2-DICHLOROBENZENE	.5	N-D	N-D	N-D
	1,3-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,4-DICHLOROBENZENE	N-D	.1	N-D	.1
	FLUORANTHENE	N-D	.2	N-D	.2
	NAPHTHALENE	.5	N-D	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	13.8	12.1	1.9	10.2
	BUTYL BENZYL PHTHALATE	1.0	1.9	N-D	1.9
	DI-N-BUTYL PHTHALATE	41.8	10.3	1.1	9.2
	DIETHYL PHTHALATE	1.6	L 0.1	N-D	L 0.1
	1,2-BENZANTHRACENE	N-D	.1	N-D	.1
	CHRYSENE	N-D	.1	N-D	.1
	ACENAPHTHYLENE	N-D	L 0.1	N-D	L 0.1
	ANTHRACENE	N-D	.5	N-D	.5
	PHENANTHRENE	N-D	.5	N-D	.5
	PYRENE	N-D	.2	N-D	.2
PESTICIDES	HEPTACHLOR	L 0.1	N-D	N-D	N-D
	HEPTACHLOR EPOXIDE	N-D	L 0.1	L 0.1	N-D
	ALPHA-BHC	N-D	L 0.1	L 0.1	N-D

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 37

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	TOTAL EFFLUENT	TOTAL SLUDGE
PESTICIDES	GAMMA-BHC	L 0.1	L 0.1	L 0.1	N-D
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1
	ARSENIC	N-D	.1	N-D	.1
	CADMIUM	41.8	22.0	3.2	18.8
	CHROMIUM	82.0	57.5	19.0	38.5
	COPPER	222	149	24.6	124
	CYANIDE	166	74.4	60.9	13.5
	LEAD	56.6	41.0	N-D	41.0
	MERCURY	.3	.1	L 0.1	L 0.1
	NICKEL	67.3	40.8	32.3	8.5
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	9.8	13.7	.7	13.0
	ZINC	219	123	36.2	86.5
NON-CONV. METALS	ALUMINUM	902	-	83.0	NOT RUN
	BARIUM	96.2	-	33.6	NOT RUN
	CALCIUM	47621	-	38175	NOT RUN
	IRON	800	-	84.5	NOT RUN
	MAGNESIUM	13872	-	11734	NOT RUN
	MANGANESE	28.4	-	15.6	NOT RUN
	SODIUM	133442	-	116579	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
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MASS BALANCE IN POUNDS PER DAY

PLANT 38

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	57100	108711	3326	42094	63291
	TOTAL SUSP. SOLIDS	30540	53699	832	25786	27081
	COD	145034	122646	8197	71527	42922
	OIL & GREASE	12986	8090	1010	6171	909
NON-CONVENTIONALS	TOTAL PHENOLS	136	10.0	3.9	5.6	.5
	TOTAL SOLIDS	207518	217948	141012	40042	36894
	TOTAL DISS. SOLIDS	184384	195489	139319	24070	32100
	TOTAL VOLATILE SOLIDS	54163	76102	23819	28800	23483
	VOLATILE DISS. SOLIDS	48943	68817	28422	22499	17896
	TOTAL VOL. SUS. SOLIDS	20654	39139	505	18686	19948
	AMMONIA NITROGEN	4470	2017	1485	268	264
	TOC	24145	25700	2049	8774	14877
VOLATILES	BENZENE	37.3	1.6	.2	1.4	L 0.1
	CARBON TETRACHLORIDE	N-D	L 0.1	L 0.1	L 0.1	N-D
	CHLOROBENZENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	1,2-DICHLOROETHANE	N-D	.2	.2	N-D	N-D
	1,1,1-TRICHLOROETHANE	25.4	2.1	.9	1.2	N-D
	1,1-DICHLOROETHANE	.3	N-D	N-D	N-D	N-D
	1,1,2,2-TETRACHLOROETHANE	.9	L 0.1	L 0.1	N-D	N-D
	CHLOROFORM	3.4	.4	.3	L 0.1	L 0.1
	1,1-DICHLOROETHYLENE	.5	N-D	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	1.0	.2	.1	L 0.1	N-D
	ETHYLBENZENE	19.0	2.9	1.6	1.3	L 0.1
	METHYLENE CHLORIDE	14.6	4.2	3.0	.9	.3
	METHYL CHLORIDE	1.9	N-D	N-D	N-D	N-D
	TETRACHLOROETHYLENE	4.9	4.1	3.2	.8	L 0.1
	TOLUENE	131	11.7	5.5	6.1	L 0.1
	TRICHLOROETHYLENE	50.4	2.7	.2	2.3	.2
ACID EXTRACT	2,4-DIMETHYLPHENOL	.8	N-D	N-D	N-D	N-D
	PENTACHLOROPHENOL	N-D	.4	.1	.3	N-D
	PHENOL	36.3	2.7	N-D	2.0	.7
BASE-NEUTRALS	1,2-DICHLOROBENZENE	N-D	.2	N-D	.2	N-D
	1,3-DICHLOROBENZENE	N-D	.2	N-D	.2	N-D
	FLUORANTHENE	N-D	.2	N-D	L 0.1	L 0.1
	NAPHTHALENE	5.7	1.7	N-D	1.7	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	3.6	6.9	1.2	4.1	1.6
	BUTYL BENZYL PHTHALATE	1.4	2.4	1.0	1.4	N-D
	DI-N-BUTYL PHTHALATE	1.4	.8	N-D	.7	.1
	DIETHYL PHTHALATE	.9	L 0.1	N-D	L 0.1	L 0.1
	ANTHRACENE	N-D	.5	N-D	.4	.1
	PHENANTHRENE	N-D	.6	N-D	.4	.2
	PYRENE	N-D	.2	N-D	.1	L 0.1
PESTICIDES	4,4'-DDD	N-D	L 0.1	L 0.1	N-D	N-D
	HEPTACHLOR EPOXIDE	N-D	L 0.1	L 0.1	N-D	N-D
	ALPHA-BHC	N-D	L 0.1	L 0.1	N-D	N-D
	GAMMA-BHC	L 0.1	L 0.1	L 0.1	N-D	N-D

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 38

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1	L 0.1
	ARSENIC	N-D	.2	N-D	L 0.1	.1
	CADMIUM	2.9	4.6	N-D	2.3	2.3
	CHROMIUM	33.7	47.3	3.4	18.1	25.8
	COPPER	32.4	51.3	.9	19.5	30.9
	CYANIDE	50.0	23.5	9.7	8.4	5.4
	LEAD	20.5	24.0	N-D	12.1	11.9
	MERCURY	.2	L 0.1	N-D	L 0.1	L 0.1
	NICKEL	13.6	11.5	8.0	1.3	2.2
	SELENIUM	N-D	.1	N-D	L 0.1	.1
	SILVER	1.9	1.5	N-D	.7	.8
	ZINC	116	151	19.4	72.0	60.4
NON-CONV. METALS	ALUMINUM	179	-	4.4	NOT RUN	NOT RUN
	BARIUM	26.6	-	7.3	NOT RUN	NOT RUN
	CALCIUM	11518	-	9236	NOT RUN	NOT RUN
	IRON	435	-	13.7	NOT RUN	NOT RUN
	MAGNESIUM	3100	-	2406	NOT RUN	NOT RUN
	MANGANESE	11.0	-	5.3	NOT RUN	NOT RUN
	SODIUM	32792	-	28185	NOT RUN	NOT RUN

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MASS BALANCE IN POUNDS PER DAY

PLANT 39

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	15705	30068	2179	27889
	TOTAL SUSP. SOLIDS	6329	16296	1332	14964
	COD	29711	45958	8084	37874
	OIL & GREASE	3258	579	497	81.8
NON-CONVENTIONALS	TOTAL PHENOLS	2.1	2.7	2.1	.6
	TOTAL SOLIDS	31082	52703	26283	26420
	TOTAL DISS. SOLIDS	55203	31423	23675	7748
	TOTAL VOLATILE SOLIDS	15072	28519	10951	17568
	VOLATILE DISS. SOLIDS	7829	12228	5950	6278
	TOTAL VOL. SUS. SOLIDS	4782	13798	1084	12714
	AMMONIA NITROGEN	1031	1254	960	294
	TOC	4981	4974	1445	3529
VOLATILES	BENZENE	.3	L 0.1	N-D	L 0.1
	CARBON TETRACHLORIDE	L 0.1	N-D	N-D	N-D
	CHLOROBENZENE	.3	N-D	N-D	N-D
	1,2-DICHLOROETHANE	.1	N-D	N-D	N-D
	1,1,1-TRICHLOROETHANE	.5	N-D	N-D	N-D
	1,1-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	CHLOROFORM	.5	.4	.4	L 0.1
	1,2-TRANS-DICHLOROETHYLENE	2.7	1.4	N-D	1.4
	1,3-DICHLOROPROPYLENE	1.3	N-D	N-D	N-D
	ETHYLBENZENE	.1	L 0.1	N-D	L 0.1
	METHYLENE CHLORIDE	5.5	1.5	1.3	.2
	TETRACHLOROETHYLENE	1.0	2.4	2.4	L 0.1
	TOLUENE	15.6	.9	.4	.5
	TRICHLOROETHYLENE	8.7	.1	L 0.1	L 0.1
ACID EXTRACT	PHENOL	.3	N-D	N-D	N-D
BASE-NEUTRALS	NAPHTHALENE	.1	.2	L 0.1	.1
	BIS(2-ETHYLHEXYL) PHTHALATE	2.5	5.1	2.0	3.1
	BUTYL BENZYL PHTHALATE	.7	.1	N-D	.1
	DI-N-BUTYL PHTHALATE	.7	.1	.1	L 0.1
	DIETHYL PHTHALATE	.3	.1	.1	N-D
	ANTHRACENE	N-D	L 0.1	N-D	L 0.1
	PHENANTHRENE	N-D	L 0.1	N-D	L 0.1
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1
	ARSENIC	N-D	L 0.1	N-D	L 0.1
	CADMIUM	L 0.1	.2	L 0.1	.1
	CHROMIUM	.9	2.8	.6	2.2
	COPPER	13.9	22.7	7.2	15.5
	CYANIDE	8.5	7.7	3.3	4.4
	LEAD	1.7	4.9	.7	4.2
	MERCURY	L 0.1	L 0.1	L 0.1	L 0.1
	NICKEL	.3	3.9	N-D	3.9
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	.4	1.0	.3	.7
	ZINC	8.4	16.9	5.0	11.9

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MASS BALANCE IN POUNDS PER DAY

PLANT 39

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
NON-CONV. METALS	ALUMINUM	41.6	-	17.6	NOT RUN
	BARIUM	6.0	-	2.9	NOT RUN
	CALCIUM	2203	-	2089	NOT RUN
	IRON	47.7	-	20.6	NOT RUN
	MAGNESIUM	820	-	711	NOT RUN
	MANGANESE	4.7	-	3.6	NOT RUN
	SODIUM	2895	-	2834	NOT RUN

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 40

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	16724	9814	3891	5923
	TOTAL SUSP. SOLIDS	9730	7543	3821	3722
	COD	28659	21856	13249	8607
	OIL & GREASE	3904	1693	846	847
NON-CONVENTIONALS	TOTAL PHENOLS	3.3	1.7	1.5	.2
	TOTAL SOLIDS	109070	108374	100541	7833
	TOTAL DISS. SOLIDS	99399	97600	96367	1233
	TOTAL VOLATILE SOLIDS	14506	18619	14319	4300
	VOLATILE DISS. SOLIDS	14601	13181	12544	637
	TOTAL VOL. SUS. SOLIDS	6675	4854	2328	2526
	AMMONIA NITROGEN	1109	850	835	15.2
	TOC	6310	3576	3139	437
VOLATILES	CARBON TETRACHLORIDE	N-D	.1	.1	N-D
	1,1,1-TRICHLOROETHANE	1.7	.1	.1	N-D
	CHLOROFORM	5.0	.7	.7	L 0.1
	1,1-DICHLOROETHYLENE	L 0.1	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	3.0	.1	L 0.1	L 0.1
	ETHYLBENZENE	.3	L 0.1	L 0.1	L 0.1
	METHYLENE CHLORIDE	.7	.1	.1	L 0.1
	TRICHLOROFLUOROMETHANE	.2	L 0.1	L 0.1	N-D
	TETRACHLOROETHYLENE	5.8	.3	.3	L 0.1
	TOLUENE	1.1	.1	.1	L 0.1
	TRICHLOROETHYLENE	1.8	L 0.1	L 0.1	L 0.1
ACID EXTRACT	PENTACHLOROPHENOL	.8	.4	.4	N-D
	PHENOL	.4	.2	L 0.1	.2
BASE-NEUTRALS	1,2,4-TRICHLOROBENZENE	2.5	.3	L 0.1	.2
	1,3-DICHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	.9	.8	.5	.3
	BUTYL BENZYL PHTHALATE	.1	.1	N-D	.1
	DI-N-BUTYL PHTHALATE	L 0.1	L 0.1	L 0.1	L 0.1
	1,2-BENZANTHRACENE	N-D	L 0.1	N-D	L 0.1
	CHRYSENE	N-D	L 0.1	N-D	L 0.1
	ANTHRACENE	N-D	L 0.1	N-D	L 0.1
	PHENANTHRENE	N-D	L 0.1	N-D	L 0.1
	PYRENE	N-D	L 0.1	N-D	L 0.1
PESTICIDES	HEPTACHLOR EPOXIDE	N-D	L 0.1	L 0.1	N-D
METALS	ANTIMONY	N-D	L 0.1	N-D	L 0.1
	ARSENIC	N-D	L 0.1	N-D	L 0.1
	CADMIUM	L 0.1	L 0.1	N-D	L 0.1
	CHROMIUM	16.9	15.3	13.0	2.3
	COPPER	4.1	2.6	2.1	.5
	CYANIDE	5.9	3.8	3.7	.1
	LEAD	N-D	.3	N-D	.3
	MERCURY	L 0.1	L 0.1	L 0.1	L 0.1
	NICKEL	1.7	.9	.8	L 0.1

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 40

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
METALS	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	L 0.1	L 0.1	N-D	L 0.1
	ZINC	13.3	9.0	7.6	1.4
NON-CONV. METALS	ALUMINUM	58.4	-	34.4	NOT RUN
	BARIUM	3.8	-	2.3	NOT RUN
	CALCIUM	2453	-	2939	NOT RUN
	IRON	394	-	194	NOT RUN
	MAGNESIUM	35.4	-	N-D	NOT RUN
	MANGANESE	5.9	-	5.0	NOT RUN
	SODIUM	26524	-	25300	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 51

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	98309	15617	1199	9746	4672
	TOTAL SUSP. SOLIDS	167213	89061	2998	62475	23588
	COD	285491	95030	20061	53728	21241
	OIL & GREASE	12947	10335	2671	6903	761
NON-CONVENTIONALS	TOTAL PHENOLS	49.9	2.2	1.3	.7	.2
	TOTAL SOLIDS	424616	305493	214290	66171	25032
	TOTAL DISS. SOLIDS	257403	216082	210910	3728	1444
	TOTAL VOLATILE SOLIDS	219659	113629	58002	38054	17573
	AMMONIA NITROGEN	6638	10158	9758	199	201
	TOC	87063	62049	14391	32549	15109
VOLATILES	BENZENE	2.2	-	N-D	NOT RUN	NOT RUN
	1,1,1-TRICHLOROETHANE	1.9	-	N-D	NOT RUN	NOT RUN
	CHLOROETHANE	137	-	207	NOT RUN	NOT RUN
	CHLOROFORM	6.0	-	3.5	NOT RUN	NOT RUN
	1,2-TRANS-DICHLOROETHYLENE	1.7	-	N-D	NOT RUN	NOT RUN
	ETHYLBENZENE	8.4	-	1.0	NOT RUN	NOT RUN
	METHYLENE CHLORIDE	12.2	-	4.8	NOT RUN	NOT RUN
	TETRACHLOROETHYLENE	7.3	-	N-D	NOT RUN	NOT RUN
	TOLUENE	93.3	-	N-D	NOT RUN	NOT RUN
	TRICHLOROETHYLENE	3.6	-	N-D	NOT RUN	NOT RUN
BASE-NEUTRALS	BIS(2-ETHYLHEXYL) PHTHALATE	143	-	63.1	NOT RUN	NOT RUN
	BUTYL BENZYL PHTHALATE	10.2	-	120	NOT RUN	NOT RUN
	DI-N-BUTYL PHTHALATE	4.4	-	8.1	NOT RUN	NOT RUN
	DI-N-OCTYL PHTHALATE	7.8	-	2.0	NOT RUN	NOT RUN
	DIETHYL PHTHALATE	3.1	-	.6	NOT RUN	NOT RUN
	DIMETHYL PHTHALATE	1.9	-	N-D	NOT RUN	NOT RUN
METALS	ANTIMONY	.2	.1	N-D	.1	L 0.1
	ARSENIC	.4	1.8	.2	1.3	.3
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	CADMIUM	.4	.4	N-D	.3	L 0.1
	CHROMIUM	52.4	25.8	5.1	15.0	5.7
	COPPER	109	60.8	6.3	40.7	13.8
	CYANIDE	1.6	1.9	1.6	L 0.1	.2
	LEAD	64.0	29.4	4.5	18.7	6.2
	MERCURY	.5	.1	N-D	L 0.1	L 0.1
	NICKEL	15.1	8.2	2.0	4.7	1.5
	SELENIUM	.1	L 0.1	N-D	L 0.1	L 0.1
	SILVER	14.6	4.9	.5	2.6	1.8
	THALLIUM	.1	N-D	N-D	N-D	N-D
	ZINC	265	173	43.4	97.0	32.6
NON-CONV. METALS	ALUMINUM	2153	1242	77.8	889	275
	BARIUM	130	18.2	5.7	8.5	4.0
	BORON	185	138	136	.8	.8
	CALCIUM	25345	21994	18752	2366	876
	COBALT	32.1	31.3	30.6	.5	.2
	IRON	3348	1790	162	1235	393
	MAGNESIUM	8229	7073	6323	442	308

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 51

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
NON-CONV. METALS	MANGANESE	40.7	23.3	9.0	10.2	4.1
	MOLYBDENUM	34.8	35.9	33.4	1.9	.6
	SODIUM	33081	36810	36469	210	131
	TIN	29.4	11.4	4.5	4.9	2.0
	TITANIUM	24.1	9.1	1.1	6.2	1.8
	VANADIUM	3.1	1.8	.2	1.2	.4
	YTTRIUM	6.3	3.7	3.1	.4	.2

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 52

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE
CONVENTIONALS	BOD	1624	832	479	353
	TOTAL SUSP. SOLIDS	951	3662	257	3405
	COD	2200	2791	888	1903
	OIL & GREASE	295	231	N-D	231
NON-CONVENTIONALS	TOTAL PHENOLS	15.8	.7	.6	.1
	TOTAL SOLIDS	4333	7314	3019	4295
	TOTAL DISS. SOLIDS	3395	3651	2761	890
	TOTAL VOLATILE SOLIDS	1708	2683	1201	1482
	AMMONIA NITROGEN	132	82.0	78.3	3.7
	TOC	917	1343	628	715
VOLATILES	BENZENE	L 0.1	L 0.1	L 0.1	L 0.1
	CHLOROBENZENE	L 0.1	L 0.1	L 0.1	L 0.1
	1,1,1-TRICHLOROETHANE	L 0.1	N-D	N-D	N-D
	1,1-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	1,1,2,2-TETRACHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	CHLOROFORM	L 0.1	L 0.1	L 0.1	N-D
	1,1-DICHLOROETHYLENE	L 0.1	N-D	N-D	N-D
	ETHYLBENZENE	N-D	L 0.1	N-D	L 0.1
	METHYLENE CHLORIDE	L 0.1	L 0.1	N-D	L 0.1
	TRICHLOROFLUOROMETHANE	N-D	L 0.1	N-D	L 0.1
	TETRACHLOROETHYLENE	L 0.1	L 0.1	N-D	L 0.1
	TOLUENE	.1	L 0.1	L 0.1	L 0.1
	TRICHLOROETHYLENE	L 0.1	L 0.1	L 0.1	L 0.1
ACID EXTRACT	2,4,6-TRICHLOROPHENOL	L 0.1	N-D	N-D	N-D
	2,4-DIMETHYLPHENOL	.2	L 0.1	L 0.1	N-D
	2,4-DINITROPHENOL	L 0.1	N-D	N-D	N-D
	PENTACHLOROPHENOL	L 0.1	N-D	N-D	N-D
	PHENOL	2.9	L 0.1	L 0.1	N-D
BASE-NEUTRALS	ACENAPHTHENE	.4	.6	.1	.5
	1,2-DICHLOROBENZENE	L 0.1	N-D	N-D	N-D
	1,3-DICHLOROBENZENE	N-D	.2	N-D	.2
	1,4-DICHLOROBENZENE	N-D	.1	N-D	.1
	2,4-DINITROTOLUENE	L 0.1	L 0.1	L 0.1	N-D
	FLUORANTHENE	.3	1.7	.2	1.5
	BIS(2-CHLOROETHYOXY) METHANE	.1	N-D	N-D	N-D
	ISOPHORONE	L 0.1	N-D	N-D	N-D
	NAPHTHALENE	L 0.1	.3	N-D	.3
	BIS(2-ETHYLHEXYL) PHTHALATE	L 0.1	.4	.1	.3
	BUTYL BENZYL PHTHALATE	N-D	L 0.1	N-D	L 0.1
	DI-N-BUTYL PHTHALATE	.4	.2	.2	N-D
	DI-N-OCTYL PHTHALATE	L 0.1	N-D	N-D	N-D
	DIETHYL PHTHALATE	L 0.1	L 0.1	L 0.1	N-D
	1,2-BENZANTHRACENE	L 0.1	.6	N-D	.6
	11,12-BENZOFLUORANTHENE	N-D	.2	N-D	.2
	CHRYSENE	L 0.1	.6	N-D	.6
	ACENAPHTHYLENE	L 0.1	N-D	N-D	N-D
	ANTHRACENE	2.5	1.5	L 0.1	1.5
	FLUORENE	.4	.2	L 0.1	.2

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 52

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE
BASE-NEUTRALS	PHENANTHRENE	2.2	1.5	L 0.1	1.5
	PYRENE	.1	1.4	L 0.1	1.3
METALS	ANTIMONY	N-D	L 0.1	L 0.1	L 0.1
	ARSENIC	L 0.1	L 0.1	L 0.1	L 0.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	N-D	L 0.1	N-D	L 0.1
	CHROMIUM	L 0.1	L 0.1	L 0.1	L 0.1
	COPPER	.3	.5	.1	.4
	CYANIDE	N-D	L 0.1	N-D	L 0.1
	LEAD	N-D	.4	N-D	.4
	MERCURY	L 0.1	L 0.1	N-D	L 0.1
	NICKEL	L 0.1	.1	.1	L 0.1
	SELENIUM	L 0.1	L 0.1	L 0.1	L 0.1
	SILVER	L 0.1	.1	L 0.1	L 0.1
	THALLIUM	L 0.1	L 0.1	L 0.1	L 0.1
	ZINC	1.0	2.3	.6	1.7
NON-CONV. METALS	ALUMINUM	20.1	39.4	5.1	34.3
	BARIUM	1.0	.6	.2	.4
	BORON	1.5	1.3	1.3	N-D
	CALCIUM	89.5	93.3	67.1	26.2
	COBALT	L 0.1	.2	.2	L 0.1
	IRON	15.7	32.0	7.0	25.0
	MAGNESIUM	11.2	14.6	11.2	3.4
	MANGANESE	.5	.6	.4	.2
	MOLYBDENUM	N-D	L 0.1	N-D	L 0.1
	SODIUM	641	650	645	5.4
	TIN	L 0.1	.2	N-D	.2
	TITANIUM	L 0.1	L 0.1	L 0.1	L 0.1
	VANADIUM	L 0.1	L 0.1	N-D	L 0.1
	YTTRIUM	N-D	L 0.1	N-D	L 0.1

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MASS BALANCE IN POUNDS PER DAY

PLANT 53

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	7859	18411	89.2	5029	13293
	TOTAL SUSP. SOLIDS	6244	38885	384	19615	18886
	COD	20203	76643	5169	27297	44177
	OIL & GREASE	868	590	398	159	32.9
NON-CONVENTIONALS	TOTAL PHENOLS	4.8	3.8	.9	1.0	1.9
	TOTAL SOLIDS	39073	69270	26817	19994	22459
	TOTAL DISS. SOLIDS	32828	30377	26426	378	3573
	TOTAL VOLATILE SOLIDS	14331	38586	6171	15452	16963
	AMMONIA NITROGEN	320	145	75.5	58.2	11.3
	TOC	6549	21483	1496	9808	10179
VOLATILES	ACRYLONITRILE	N-D	L 0.1	N-D	L 0.1	L 0.1
	BENZENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	CHLOROBENZENE	N-D	.5	N-D	.3	.2
	1,1,1-TRICHLOROETHANE	2.3	L 0.1	L 0.1	L 0.1	N-D
	1,1-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	L 0.1
	1,1,2,2-TETRACHLOROETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	CHLOROETHANE	.3	N-D	N-D	N-D	N-D
	CHLOROFORM	.5	1.8	1.8	N-D	N-D
	1,1-DICHLOROETHYLENE	.3	N-D	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	.8	.4	N-D	.3	L 0.1
	1,2-DICHLOROPROPANE	.7	L 0.1	N-D	L 0.1	L 0.1
	ETHYLBENZENE	.8	.2	N-D	L 0.1	L 0.1
	METHYLENE CHLORIDE	1.1	.3	.3	L 0.1	L 0.1
	METHYL CHLORIDE	N-D	2.3	2.3	N-D	N-D
	TRICHLOROFLUOROMETHANE	N-D	L 0.1	N-D	L 0.1	L 0.1
	TETRACHLOROETHYLENE	20.8	L 0.1	N-D	L 0.1	L 0.1
	TOLUENE	.3	L 0.1	L 0.1	L 0.1	L 0.1
	TRICHLOROETHYLENE	4.0	L 0.1	N-D	L 0.1	L 0.1
ACID EXTRACT	2-CHLOROPHENOL	.8	N-D	N-D	N-D	N-D
	4,6-DINITRO-O-CRESOL	N-D	L 0.1	L 0.1	N-D	N-D
	PENTACHLOROPHENOL	.4	N-D	N-D	N-D	N-D
	PHENOL	2.3	1.2	L 0.1	.2	.9
BASE-NEUTRALS	ACENAPHTHENE	26.7	L 0.1	L 0.1	N-D	N-D
	1,2,4-TRICHLOROBENZENE	42.0	3.1	.2	2.9	N-D
	1,2-DICHLOROBENZENE	.1	L 0.1	N-D	L 0.1	N-D
	1,4-DICHLOROBENZENE	L 0.1	1.3	N-D	1.3	N-D
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1	N-D
	4-CHLOROPHENYL PHENYL ETHER	N-D	L 0.1	L 0.1	N-D	N-D
	NAPHTHALENE	2.5	1.0	N-D	1.0	N-D
	NITROBENZENE	1.0	N-D	N-D	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	1.4	6.4	.4	2.4	3.6
	BUTYL BENZYL PHTHALATE	N-D	L 0.1	L 0.1	N-D	N-D
	DI-N-BUTYL PHTHALATE	.3	.2	.1	N-D	L 0.1
	DIETHYL PHTHALATE	.3	.4	.4	N-D	L 0.1
	DIMETHYL PHTHALATE	L 0.1	N-D	N-D	N-D	N-D
	ANTHRACENE	N-D	L 0.1	N-D	L 0.1	N-D
	FLUORENE	N-D	L 0.1	N-D	L 0.1	N-D
	PHENANTHRENE	N-D	L 0.1	N-D	L 0.1	N-D

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 53

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
BASE-NEUTRALS	INDENO(1,2,3-C,D) PYRENE	N-D	.3	.3	N-D	N-D
	PYRENE	N-D	L 0.1	N-D	L 0.1	N-D
METALS	ANTIMONY	.7	.8	.6	.1	.1
	ARSENIC	.2	.1	.1	L 0.1	L 0.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	CADMIUM	.1	1.1	N-D	.3	.8
	CHROMIUM	.6	2.5	.2	.7	1.6
	COPPER	5.4	15.5	1.2	5.3	9.0
	CYANIDE	4.7	11.4	8.4	L 0.1	2.9
	LEAD	1.3	6.5	N-D	3.1	3.4
	MERCURY	L 0.1	.5	L 0.1	L 0.1	.4
	NICKEL	5.3	15.8	4.6	4.1	7.1
	SELENIUM	N-D	L 0.1	L 0.1	L 0.1	L 0.1
	SILVER	.2	1.1	L 0.1	.3	.7
	ZINC	13.4	42.1	6.5	13.4	22.2
NON-CONV. METALS	ALUMINUM	51.3	-	9.0	NOT RUN	L 0.1
	BARIUM	4.4	-	.5	NOT RUN	L 0.1
	BORON	22.4	-	22.9	NOT RUN	L 0.1
	CALCIUM	487	-	419	NOT RUN	24.1
	COBALT	1.7	-	1.9	NOT RUN	L 0.1
	IRON	66.8	-	18.1	NOT RUN	L 0.1
	MAGNESIUM	137	-	515	NOT RUN	24.1
	MANGANESE	3.0	-	2.2	NOT RUN	L 0.1
	MOLYBDENUM	N-D	-	N-D	NOT RUN	L 0.1
	SODIUM	8300	-	7509	NOT RUN	24.1
	TIN	.6	-	.4	NOT RUN	L 0.1
	TITANIUM	.7	-	.2	NOT RUN	L 0.1
	VANADIUM	N-D	-	N-D	NOT RUN	L 0.1
	YTTRIUM	N-D	-	N-D	NOT RUN	L 0.1

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MASS BALANCE IN POUNDS PER DAY

PLANT 54

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	16741	126081	490	9133	116458
	TOTAL SUSP. SOLIDS	31008	242611	4082	21536	216993
	COD	39614	282581	1905	16182	264494
	OIL & GREASE	4231	8428	449	530	7449
NON-CONVENTIONALS	TOTAL PHENOLS	17.5	34.7	5.4	.6	28.7
	TOTAL SOLIDS	82191	311325	38494	22371	250460
	TOTAL DISS. SOLIDS	51183	68714	34412	835	33467
	TOTAL VOLATILE SOLIDS	28474	188131	6110	11517	170504
	AMMONIA NITROGEN	1513	1893	1129	56.5	708
	TOC	12346	107173	2599	5456	99118
VOLATILES	BENZENE	L 0.1	.2	N-D	L 0.1	.2
	CARBON TETRACHLORIDE	L 0.1	N-D	N-D	N-D	N-D
	CHLOROBENZENE	N-D	L 0.1	N-D	L 0.1	N-D
	1,1,1-TRICHLOROETHANE	1.7	.2	.2	N-D	N-D
	1,1-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1	N-D
	CHLOROFORM	.8	.4	.4	L 0.1	L 0.1
	1,1-DICHLOROETHYLENE	L 0.1	N-D	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	L 0.1	N-D	N-D	N-D	N-D
	ETHYLBENZENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	METHYLENE CHLORIDE	.4	.2	.2	L 0.1	N-D
	METHYL CHLORIDE	N-D	L 0.1	N-D	L 0.1	L 0.1
	DICHLORODIFLUOROMETHANE	N-D	.2	N-D	N-D	.2
	TETRACHLOROETHYLENE	.6	.7	L 0.1	.2	.4
	TOLUENE	.7	3.3	L 0.1	.3	3.0
	TRICHLOROETHYLENE	L 0.1	.2	N-D	L 0.1	.2
ACID EXTRACT	2,4-DICHLOROPHENOL	51.2	16.2	15.6	.6	N-D
	PHENOL	.3	5.7	N-D	L 0.1	5.6
BASE-NEUTRALS	HEXACHLOROBENZENE	N-D	.3	N-D	L 0.1	.3
	BIS(2-CHLOROETHYL) ETHER	15.3	N-D	N-D	N-D	N-D
	1,2-DIPHENYLHYDRAZINE	N-D	L 0.1	L 0.1	N-D	N-D
	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1	L 0.1
	BIS(2-CHLOROETHYOXY) METHANE	.1	N-D	N-D	N-D	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	10.9	38.1	6.5	2.2	29.4
	BUTYL BENZYL PHTHALATE	N-D	.1	L 0.1	L 0.1	N-D
	DI-N-BUTYL PHTHALATE	1.3	1.7	.2	L 0.1	1.5
	DIETHYL PHTHALATE	.2	N-D	N-D	N-D	N-D
	PYRENE	N-D	L 0.1	N-D	L 0.1	N-D
METALS	ANTIMONY	.1	.3	.1	L 0.1	.2
	ARSENIC	L 0.1	.3	N-D	L 0.1	.3
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1	N-D
	CADMIUM	.4	1.0	.3	L 0.1	.6
	CHROMIUM	1.8	23.9	.3	2.1	21.5
	COPPER	2.6	255	.1	2.8	252
	CYANIDE	.2	3.0	3.0	L 0.1	N-D
	LEAD	15.1	27.3	7.5	2.4	17.4
	MERCURY	.1	1.4	N-D	.1	1.3
	NICKEL	1.3	36.6	.9	.6	35.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED

N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 54

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	SELENIUM	.2	.6	.5	L 0.1	L 0.1
	SILVER	1.0	15.7	L 0.1	.5	15.2
	ZINC	14.0	224	1.3	6.6	216
NON-CONV. METALS	ALUMINUM	458	-	12.8	NOT RUN	NOT RUN
	BARIUM	13.1	-	1.3	NOT RUN	NOT RUN
	BORON	31.4	-	16.8	NOT RUN	NOT RUN
	CALCIUM	4558	-	2055	NOT RUN	NOT RUN
	IRON	454	-	22.5	NOT RUN	NOT RUN
	MAGNESIUM	327	-	150	NOT RUN	NOT RUN
	MANGANESE	27.2	-	12.9	NOT RUN	NOT RUN
	MOLYBDENUM	14.6	-	9.9	NOT RUN	NOT RUN
	SODIUM	20727	-	9158	NOT RUN	NOT RUN
	TIN	1.8	-	N-D	NOT RUN	NOT RUN
	TITANIUM	5.5	-	.3	NOT RUN	NOT RUN
	VANADIUM	.2	-	N-D	NOT RUN	NOT RUN
	YTTRIUM	1.1	-	.6	NOT RUN	NOT RUN

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 55

FRACTION	PARAMETER	INFLUENT	TERTIARY EFFLUENT
CONVENTIONALS	BOD	38184	N-D
	TOTAL SUSP. SOLIDS	106626	4723
	COD	152855	24140
	OIL & GREASE	8712	3486
NON-CONVENTIONALS	TOTAL PHENOLS	186	24.2
	TOTAL VOL. SUS. SOLIDS	48859	2999
	AMMONIA NITROGEN	1766	150
	TOC	47211	11808
VOLATILES	BENZENE	43.2	N-D
	CHLOROBENZENE	1.2	N-D
	1,2-DICHLOROETHANE	941	N-D
	1,1,1-TRICHLOROETHANE	20.9	N-D
	1,1-DICHLOROETHANE	6.3	N-D
	CHLOROETHANE	73.0	50.4
	CHLOROFORM	192	L 0.1
	1,2-TRANS-DICHLOROETHYLENE	2.2	N-D
	ETHYLBENZENE	6.0	.2
	METHYLENE CHLORIDE	3.1	.7
	METHYL CHLORIDE	2.8	N-D
	TETRACHLOROETHYLENE	11.8	N-D
	TOLUENE	195	N-D
	TRICHLOROETHYLENE	9.3	N-D
ACID EXTRACT	PHENOL	9.9	N-D
BASE-NEUTRALS	3,3'-DICHLOROBENZIDINE	21.2	N-D
	1,2-DIPHENYLHYDRAZINE	.2	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	29.0	29.7
	BUTYL BENZYL PHTHALATE	4.3	N-D
	DI-N-BUTYL PHTHALATE	1.1	.3
	DI-N-OCTYL PHTHALATE	.5	.7
	DIETHYL PHTHALATE	N-D	.3
	DIMETHYL PHTHALATE	.5	N-D
METALS	ANTIMONY	.6	.2
	ARSENIC	1.1	.5
	CHROMIUM	295	7.9
	COPPER	32.6	N-D
	CYANIDE	19.8	.6
	LEAD	51.0	7.5
	MERCURY	L 0.1	L 0.1
	NICKEL	51.4	N-D
	SELENIUM	1.1	.7
	SILVER	1.2	N-D
	THALLIUM	.4	.1
	ZINC	219	4.1
NON-CONV. METALS	ALUMINUM	910	71.2
	BARIUM	45.9	21.4
	BORON	83.6	43.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 55

FRACTION	PARAMETER	INFLUENT	TERTIARY EFFLUENT
NON-CONV. METALS	CALCIUM	34339	15669
	IRON	2785	572
	MAGNESIUM	4749	4198
	MANGANESE	143	31.2
	SODIUM	48584	31562
	TITANIUM	32.7	1.8
	VANADIUM	1.3	N-D
	YTTRIUM	74.6	75.0

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 56

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	11329	169057	N-D	169057
	TOTAL SUSP. SOLIDS	59097	842661	568	842093
	COD	54029	727867	91648	636219
	OIL & GREASE	5614	76569	1263	75306
NON-CONVENTIONALS	TOTAL PHENOLS	34.8	-	8.5	NOT RUN
	TOTAL VOL. SUS. SOLIDS	26739	323529	442	323087
	AMMONIA NITROGEN	1238	-	568	NOT RUN
	TOC	13943	-	8685	NOT RUN
VOLATILES	BENZENE	.2	-	.1	NOT RUN
	1,1,1-TRICHLOROETHANE	.4	-	.6	NOT RUN
	1,1-DICHLOROETHANE	L 0.1	-	N-D	NOT RUN
	CHLOROFORM	L 0.1	-	L 0.1	NOT RUN
	1,2-TRANS-DICHLOROETHYLENE	.6	-	L 0.1	NOT RUN
	ETHYLBENZENE	.1	-	L 0.1	NOT RUN
	METHYLENE CHLORIDE	.3	-	.3	NOT RUN
	TETRACHLOROETHYLENE	1.8	-	.3	NOT RUN
	TOLUENE	.5	-	L 0.1	NOT RUN
	TRICHLOROETHYLENE	8.0	-	3.6	NOT RUN
ACID EXTRACT	PHENOL	.7	-	N-D	NOT RUN
BASE-NEUTRALS	HEXACHLOROBENZENE	.2	-	N-D	NOT RUN
	1,3-DICHLOROBENZENE	L 0.1	-	N-D	NOT RUN
	FLUORANTHENE	L 0.1	-	N-D	NOT RUN
	NAPHTHALENE	.5	-	N-D	NOT RUN
	BIS(2-ETHYLHEXYL) PHTHALATE	1.1	-	.1	NOT RUN
	BUTYL BENZYL PHTHALATE	.2	-	L 0.1	NOT RUN
	DI-N-BUTYL PHTHALATE	.3	-	L 0.1	NOT RUN
	DIETHYL PHTHALATE	.5	-	L 0.1	NOT RUN
	1,2-BENZANTHRACENE	L 0.1	-	N-D	NOT RUN
	CHRYSENE	L 0.1	-	N-D	NOT RUN
	ACENAPHTHYLENE	L 0.1	-	N-D	NOT RUN
	ANTHRACENE	.3	-	N-D	NOT RUN
	PHENANTHRENE	.3	-	N-D	NOT RUN
	PYRENE	.1	-	N-D	NOT RUN
PESTICIDES	HEPTACHLOR	N-D	-	L 0.1	NOT RUN
	ALPHA-BHC	L 0.1	-	N-D	NOT RUN
	GAMMA-BHC	L 0.1	-	L 0.1	NOT RUN
	DELTA-BHC	N-D	-	L 0.1	NOT RUN
METALS	ANTIMONY	N-D	.5	N-D	.5
	ARSENIC	4.4	29.6	.3	29.3
	CADMIUM	2.3	85.7	N-D	85.7
	CHROMIUM	78.7	548	4.8	543
	COPPER	36.7	565	1.5	564
	CYANIDE	8.4	-	4.5	NOT RUN
	LEAD	80.3	629	14.7	614
	MERCURY	L 0.1	.5	N-D	.5
	NICKEL	26.0	137	12.3	125

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 56

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
METALS	SELENIUM	.4	2.4	1.3	1.1
	SILVER	.4	8.7	N-D	8.7
	THALLIUM	L 0.1	.4	.2	.2
	ZINC	924	15685	179	15506
NON-CONV. METALS	ALUMINUM	3926	21978	18.9	21959
	BARIUM	36.7	263	16.0	247
	BORON	33.5	48.0	48.0	N-D
	CALCIUM	14172	23094	13580	9514
	COBALT	N-D	23.9	N-D	23.9
	IRON	20903	94676	154	94522
	MAGNESIUM	4288	5426	3790	1636
	MANGANESE	143	324	88.8	235
	MOLYBDENUM	3.4	87.9	3.2	84.7
	SODIUM	17796	15786	15643	143
	TIN	N-D	255	N-D	255
	TITANIUM	1.5	22.1	N-D	22.1
	VANADIUM	.5	9.0	N-D	9.0
	YTTRIUM	N-D	21.4	N-D	21.4

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 57

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	11785	1863	539	1324
	TOTAL SUSP. SOLIDS	26716	10336	2232	8104
	COD	53347	12075	4578	7497
	OIL & GREASE	9427	3005	1260	1745
NON-CONVENTIONALS	TOTAL PHENOLS	18.3	4.8	4.7	L 0.1
	TOTAL SOLIDS	NOT RUN	-	NOT RUN	7972
	TOTAL VOLATILE SOLIDS	NOT RUN	-	NOT RUN	5898
	TOTAL VOL. SUS. SOLIDS	22327	7485	1617	5868
	AMMONIA NITROGEN	427	-	300	NOT RUN
	TOC	15266	-	5542	NOT RUN
VOLATILES	BENZENE	.2	L 0.1	N-D	L 0.1
	1,1,1-TRICHLOROETHANE	1.3	.1	L 0.1	L 0.1
	CHLOROETHANE	N-D	.8	.8	N-D
	CHLOROFORM	.3	.3	.3	N-D
	1,1-DICHLOROETHYLENE	N-D	L 0.1	N-D	L 0.1
	1,2-TRANS-DICHLOROETHYLENE	1.5	.4	.1	.3
	ETHYLBENZENE	.3	1.2	1.0	.2
	METHYLENE CHLORIDE	.9	1.1	1.1	L 0.1
	METHYL CHLORIDE	11.4	.2	.2	N-D
	TETRACHLOROETHYLENE	1.4	L 0.1	N-D	L 0.1
	TOLUENE	2.0	.3	L 0.1	.2
	TRICHLOROETHYLENE	12.5	7.0	7.0	N-D
	VINYL CHLORIDE	2527	178	178	.2
BASE-NEUTRALS	FLUORANTHENE	N-D	L 0.1	N-D	L 0.1
	BIS(2-ETHYLHEXYL) PHTHALATE	1.6	2.9	1.2	1.7
	DI-N-BUTYL PHTHALATE	L 0.1	L 0.1	L 0.1	N-D
	PYRENE	N-D	L 0.1	N-D	L 0.1
METALS	ANTIMONY	.2	.2	L 0.1	L 0.1
	ARSENIC	.2	.2	.1	L 0.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	44.2	15.8	4.4	11.4
	CHROMIUM	65.1	22.4	6.6	15.8
	COPPER	36.8	14.7	3.7	11.0
	CYANIDE	5.6	L 0.1	N-D	L 0.1
	LEAD	7.5	2.8	N-D	2.8
	MERCURY	.2	L 0.1	L 0.1	L 0.1
	NICKEL	20.2	16.2	11.1	5.1
	SELENIUM	N-D	L 0.1	N-D	L 0.1
	SILVER	.7	.2	.1	.1
	ZINC	178	75.3	29.2	46.1
NON-CONV. METALS	ALUMINUM	151	72.0	18.0	54.0
	BARIUM	13.0	2.2	1.6	.6
	BORON	20.4	20.4	20.3	.1
	CALCIUM	2336	1989	1830	159
	COBALT	N-D	L 0.1	N-D	L 0.1
	IRON	400	153	39.8	113
	MAGNESIUM	763	753	706	47.0

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MASS BALANCE IN POUNDS PER DAY

PLANT 57

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
NON-CONV. METALS	MANGANESE	14.1	10.4	8.5	1.9
	MOLYBDENUM	9.0	5.9	5.5	.4
	SODIUM	4626	4692	4669	23.4
	TIN	4.7	2.1	1.4	.7
	TITANIUM	2.7	1.1	.4	.7
	VANADIUM	.6	.3	.2	.1
	YTTRIUM	L 0.1	L 0.1	N-D	L 0.1

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MASS BALANCE IN POUNDS PER DAY

PLANT 58

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
CONVENTIONALS	BOD	17069	6083	2882	2224	977
	TOTAL SUSP. SOLIDS	21406	25870	2023	17381	6466
	COD	60773	32792	15299	12995	4498
	OIL & GREASE	3691	4881	3081	1681	119
NON-CONVENTIONALS	TOTAL PHENOLS	214	72.7	71.7	.8	.2
	TOTAL SOLIDS	NOT RUN	-	NOT RUN	15832	NOT RUN
	TOTAL VOLATILE SOLIDS	NOT RUN	-	NOT RUN	10028	NOT RUN
	TOTAL VOL. SUS. SOLIDS	13994	16756	1545	10933	4278
	AMMONIA NITROGEN	969	312	307	.2	5.3
	TOC	16393	-	6475	NOT RUN	NOT RUN
VOLATILES	BENZENE	18.6	1.9	1.7	.2	L 0.1
	CHLORDETHANE	29.2	38.6	38.6	N-D	N-D
	CHLOROFORM	L 0.1	L 0.1	L 0.1	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	N-D	.2	N-D	.2	N-D
	ETHYLBENZENE	.3	L 0.1	N-D	L 0.1	N-D
	METHYLENE CHLORIDE	1.4	1.2	1.2	L 0.1	N-D
	METHYL CHLORIDE	N-D	.2	.2	N-D	N-D
	DICHLORODIFLUOROMETHANE	N-D	.2	N-D	L 0.1	L 0.1
	TETRACHLOROETHYLENE	1.6	N-D	N-D	N-D	N-D
	TOLUENE	.9	5.5	N-D	.1	5.4
	TRICHLOROETHYLENE	.3	L 0.1	N-D	L 0.1	N-D
ACID EXTRACT	2,4-DIMETHYLPHENOL	.5	N-D	N-D	N-D	N-D
	PENTACHLOROPHENOL	N-D	L 0.1	N-D	L 0.1	N-D
	PHENOL	147	1.1	1.1	N-D	L 0.1
BASE-NEUTRALS	2,4-DINITROTOLUENE	.4	N-D	N-D	N-D	N-D
	2,6-DINITROTOLUENE	1.4	N-D	N-D	N-D	N-D
	1,2-DIPHENYLHYDRAZINE	.6	L 0.1	L 0.1	N-D	N-D
	FLUORANTHENE	.8	4.7	N-D	4.5	.2
	NAPHTHALENE	N-D	.3	N-D	.3	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	12.2	21.7	20.8	.8	L 0.1
	BUTYL BENZYL PHTHALATE	N-D	.5	N-D	.4	L 0.1
	DI-N-BUTYL PHTHALATE	1.6	.7	.6	L 0.1	L 0.1
	DI-N-OCTYL PHTHALATE	1.1	L 0.1	L 0.1	N-D	N-D
	DIETHYL PHTHALATE	1.0	.1	L 0.1	L 0.1	N-D
	1,2-BENZANTHRACENE	.2	5.1	N-D	4.8	.3
	BENZO (A)PYRENE	N-D	37.8	N-D	36.4	1.4
	11,12-BENZOFLUORANTHENE	N-D	.7	N-D	.5	.2
	CHRYSENE	.2	5.1	N-D	4.8	.3
	ANTHRACENE	N-D	.5	N-D	.5	L 0.1
	1,12-BENZOPERYLENE	N-D	1.4	N-D	1.4	N-D
	PHENANTHRENE	N-D	.5	N-D	.5	L 0.1
	PYRENE	.6	4.8	N-D	4.6	.2
METALS	ANTIMONY	6.1	1.5	1.4	L 0.1	L 0.1
	ARSENIC	.2	3.8	3.7	L 0.1	L 0.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1	L 0.1
	CADMIUM	1.5	1.0	.6	.3	L 0.1
	CHROMIUM	17.7	16.5	6.6	7.9	2.0

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MASS BALANCE IN POUNDS PER DAY

PLANT 58

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	PRIMARY SLUDGE	SECONDARY SLUDGE
METALS	COPPER	46.5	26.5	7.3	15.1	4.1
	CYANIDE	30.3	12.1	12.0	.1	L 0.1
	LEAD	36.9	36.7	15.9	16.3	4.5
	MERCURY	L 0.1	.1	L 0.1	L 0.1	L 0.1
	NICKEL	48.9	42.5	41.0	1.2	.3
	SELENIUM	.6	33.9	33.3	.4	.2
	SILVER	2.0	2.4	2.3	L 0.1	L 0.1
	ZINC	33.4	35.5	11.7	19.7	4.1
NON-CONV. METALS	ALUMINUM	259	365	54.8	251	59.0
	BARIUM	33.7	34.3	19.0	12.8	2.5
	BORON	63.5	62.8	61.6	.9	.3
	CALCIUM	17131	17187	16801	308	78.2
	COBALT	3.4	3.1	2.2	.7	.2
	IRON	338	362	66.7	237	58.1
	MAGNESIUM	5198	5138	5059	60.1	19.3
	MANGANESE	21.7	22.6	20.5	1.7	.4
	MOLYBDENUM	5.0	5.3	4.5	.6	.2
	SODIUM	19591	19436	19376	44.6	15.4
	TIN	5.8	6.8	5.4	1.1	.3
	TITANIUM	1.9	1.4	1.1	.2	L 0.1
	VANADIUM	39.1	40.4	35.3	4.1	1.0
	YTTRIUM	2.9	3.0	2.7	.2	L 0.1

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MASS BALANCE IN POUNDS PER DAY

PLANT 59

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	39198	12651	1630	11021
	TOTAL SUSP. SOLIDS	123825	48570	3627	44943
	COD	97953	88260	43278	44982
	OIL & GREASE	18402	10572	2038	8534
NON-CONVENTIONALS	TOTAL PHENOLS	48.0	14.1	10.6	3.5
	TOTAL VOL. SUS. SOLIDS	112221	32164	2934	29230
	AMMONIA NITROGEN	144	503	469	33.7
	TOC	12054	-	5722	NOT RUN
VOLATILES	BENZENE	1.6	L 0.1	N-D	L 0.1
	CHLOROBENZENE	N-D	L 0.1	N-D	L 0.1
	1,1,1-TRICHLOROETHANE	6.0	1.1	1.1	N-D
	1,1-DICHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	1,1,2-TRICHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	1,1,2,2-TETRACHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	CHLOROFORM	2.0	1.6	1.6	L 0.1
	1,2-TRANS-DICHLOROETHYLENE	.8	4.9	N-D	4.9
	1,2-DICHLOROPROPANE	N-D	L 0.1	N-D	L 0.1
	ETHYLBENZENE	12.3	.5	L 0.1	.5
	METHYLENE CHLORIDE	15.9	11.4	11.4	L 0.1
	DICHLOROBROMOMETHANE	N-D	.5	N-D	.5
	TETRACHLOROETHYLENE	57.4	11.6	11.6	L 0.1
	TOLUENE	77.5	1.3	.9	.4
	TRICHLOROETHYLENE	17.0	2.8	2.6	.2
ACID EXTRACT	2-CHLOROPHENOL	1.6	N-D	N-D	N-D
	2,4-DIMETHYLPHENOL	N-D	L 0.1	L 0.1	N-D
	4,6-DINITRO-O-CRESOL	N-D	L 0.1	L 0.1	N-D
	PHENOL	17.2	4.3	.7	3.6
BASE-NEUTRALS	1,2-DICHLOROBENZENE	.6	L 0.1	L 0.1	N-D
	FLUORANTHENE	N-D	.2	N-D	.2
	ISOPHORONE	N-D	.7	.7	N-D
	NAPHTHALENE	6.7	.1	N-D	.1
	NITROBENZENE	9.0	.2	.2	N-D
	BIS(2-ETHYLHEXYL) PHTHALATE	72.5	49.5	9.8	39.7
	DI-N-BUTYL PHTHALATE	15.1	3.4	1.1	2.3
	DI-N-OCTYL PHTHALATE	1.4	.2	.2	N-D
	DIETHYL PHTHALATE	2.5	1.2	1.2	N-D
	1,2-BENZANTHRACENE	N-D	.4	N-D	.4
	11,12-BENZOFLUORANTHENE	N-D	.3	N-D	.3
	CHRYSENE	N-D	.4	N-D	.4
	ANTHRACENE	N-D	.5	N-D	.5
	PHENANTHRENE	N-D	.5	N-D	.5
	PYRENE	N-D	.4	N-D	.4
PESTICIDES	4,4'-DDT	N-D	L 0.1	L 0.1	N-D
METALS	ANTIMONY	.3	.2	.2	L 0.1
	ARSENIC	.1	.1	.1	L 0.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 59

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
METALS	CADMIUM	N-D	.1	N-D	.1
	CHROMIUM	113	68.2	59.1	9.1
	COPPER	41.8	32.1	4.5	27.6
	CYANIDE	9.3	3.4	3.4	N-D
	LEAD	N-D	11.4	8.2	3.2
	MERCURY	L 0.1	L 0.1	L 0.1	L 0.1
	NICKEL	41.8	26.3	24.0	2.3
	SELENIUM	.1	.1	.1	L 0.1
	SILVER	2.4	1.8	.4	1.4
	ZINC	195	69.9	50.0	19.9
NON-CONV. METALS	ALUMINUM	3079	-	85.6	NOT RUN
	BARIUM	41.0	-	16.3	NOT RUN
	BORON	110	-	88.4	NOT RUN
	CALCIUM	11890	-	11003	NOT RUN
	IRON	508	-	127	NOT RUN
	MAGNESIUM	1927	-	1915	NOT RUN
	MANGANESE	58.8	-	99.8	NOT RUN
	SODIUM	21157	-	21313	NOT RUN
	TITANIUM	3.2	-	2.0	NOT RUN
	VANADIUM	2.1	-	1.5	NOT RUN

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N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 60

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
CONVENTIONALS	BOD	14839	7347	433	6914
	TOTAL SUSP. SOLIDS	11773	29500	845	28655
	COD	34564	20955	2296	18659
	OIL & GREASE	2666	1472	589	883
NON-CONVENTIONALS	TOTAL PHENOLS	7.3	3.4	N-D	3.4
	TOTAL VOL. SUS. SOLIDS	8752	19278	619	18659
	AMMONIA NITROGEN	120	224	143	81.0
	TOC	8619	9924	2794	7130
VOLATILES	BENZENE	L 0.1	L 0.1	N-D	L 0.1
	1,2-DICHLOROETHANE	L 0.1	L 0.1	L 0.1	L 0.1
	1,1,1-TRICHLOROETHANE	13.1	.7	.7	L 0.1
	1,1-DICHLOROETHANE	.4	.3	N-D	.3
	CHLOROETHANE	N-D	L 0.1	N-D	L 0.1
	CHLOROFORM	L 0.1	L 0.1	L 0.1	L 0.1
	1,1-DICHLOROETHYLENE	.2	N-D	N-D	N-D
	1,2-TRANS-DICHLOROETHYLENE	.3	L 0.1	N-D	L 0.1
	ETHYLBENZENE	.2	L 0.1	L 0.1	L 0.1
	METHYLENE CHLORIDE	.2	.3	L 0.1	.2
	TRICHLOROFLUOROMETHANE	L 0.1	N-D	N-D	N-D
	TETRACHLOROETHYLENE	.6	L 0.1	L 0.1	N-D
	TOLUENE	.4	1601	N-D	1601
	TRICHLOROETHYLENE	.3	L 0.1	L 0.1	N-D
	VINYL CHLORIDE	L 0.1	N-D	N-D	N-D
ACID EXTRACT	PARACHLOROMETA CRESOL	L 0.1	N-D	N-D	N-D
	4-NITROPHENOL	4.5	N-D	N-D	N-D
	PENTACHLOROPHENOL	L 0.1	N-D	N-D	N-D
	PHENOL	6.4	1.3	L 0.1	1.3
BASE-NEUTRALS	1,2-DICHLOROBENZENE	2.7	.4	L 0.1	.3
	1,3-DICHLOROBENZENE	N-D	.1	N-D	.1
	1,4-DICHLOROBENZENE	.5	.4	L 0.1	.4
	FLUORANTHENE	N-D	.1	N-D	.1
	NAPHTHALENE	5.0	.8	N-D	.8
	BIS(2-ETHYLHEXYL) PHTHALATE	2.6	2.6	.7	1.9
	BUTYL BENZYL PHTHALATE	.4	L 0.1	N-D	L 0.1
	DI-N-BUTYL PHTHALATE	.4	L 0.1	L 0.1	L 0.1
	DI-N-OCTYL PHTHALATE	L 0.1	N-D	N-D	N-D
	DIETHYL PHTHALATE	.2	L 0.1	L 0.1	N-D
	DIMETHYL PHTHALATE	L 0.1	L 0.1	L 0.1	N-D
	ACENAPHTHYLENE	N-D	L 0.1	N-D	L 0.1
	ANTHRACENE	L 0.1	N-D	N-D	N-D
	PHENANTHRENE	L 0.1	.3	N-D	.3
	PYRENE	N-D	L 0.1	N-D	L 0.1
PESTICIDES	ALDRIN	L 0.1	L 0.1	L 0.1	N-D
	4,4'-DDE	L 0.1	N-D	N-D	N-D
	ALPHA-ENDOSULFAN	N-D	L 0.1	L 0.1	N-D
	BETA-ENDOSULFAN	N-D	L 0.1	L 0.1	N-D
	HEPTACHLOR EPOXIDE	L 0.1	L 0.1	L 0.1	N-D

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN

MASS BALANCE IN POUNDS PER DAY

PLANT 60

FRACTION	PARAMETER	INFLUENT	TOTAL OUT	EFFLUENT	COMBINED SLUDGE
PESTICIDES	ALPHA-BHC	N-D	L 0.1	L 0.1	N-D
	BETA-BHC	N-D	L 0.1	L 0.1	N-D
	GAMMA-BHC	L 0.1	N-D	N-D	N-D
	DELTA-BHC	L 0.1	L 0.1	L 0.1	N-D
METALS	ANTIMONY	.1	L 0.1	L 0.1	L 0.1
	ARSENIC	L 0.1	L 0.1	L 0.1	L 0.1
	BERYLLIUM	N-D	L 0.1	N-D	L 0.1
	CADMIUM	L 0.1	.2	N-D	.2
	CHROMIUM	111	47.2	2.8	44.4
	COPPER	2.8	4.3	.2	4.1
	CYANIDE	1.4	4.4	2.3	2.1
	LEAD	6.9	12.6	N-D	12.6
	MERCURY	L 0.1	.2	N-D	.2
	NICKEL	3.7	4.9	3.1	1.8
	SELENIUM	L 0.1	L 0.1	L 0.1	L 0.1
	SILVER	L 0.1	.1	L 0.1	.1
	THALLIUM	N-D	L 0.1	L 0.1	N-D
	ZINC	40.5	47.8	2.9	44.9
NON-CONV. METALS	ALUMINUM	27.1	-	4.4	NOT RUN
	BARIUM	2.0	-	.5	NOT RUN
	BORON	12.0	-	13.1	NOT RUN
	CALCIUM	3515037	-	2123350	NOT RUN
	IRON	67.9	-	9.1	NOT RUN
	MAGNESIUM	477587	-	399807	NOT RUN
	MANGANESE	31.3	-	2.7	NOT RUN
	SODIUM	8097647	-	6978207	NOT RUN
	TIN	2.8	-	2.9	NOT RUN
	TITANIUM	.6	-	.1	NOT RUN
	VANADIUM	L 0.1	-	L 0.1	NOT RUN

POLLUTANTS NOT DETECTED AT ANY SAMPLE POINT ARE NOT LISTED
N-D=NOT DETECTED; L=LESS THAN