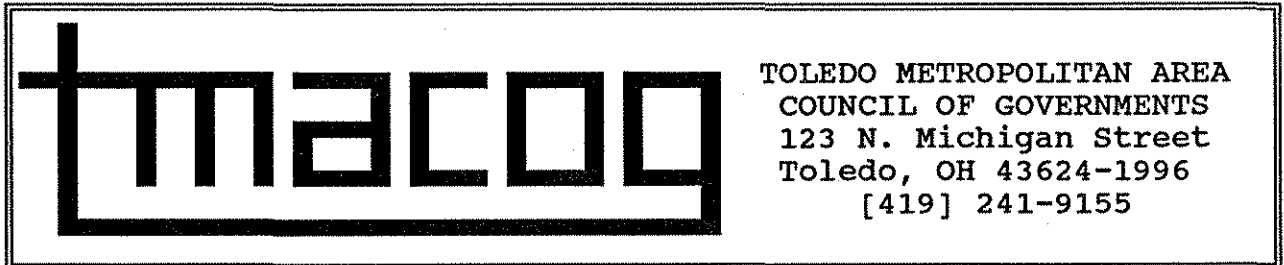

LOWER MAUMEE BASIN
REMEDIAL ACTION PLAN

Volume 2
Investigation Report Appendices
January, 1989



**LOWER MAUMEE BASIN
REMEDIAL ACTION PLAN**

Volume 2

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Ohio EPA *Biological Water Quality Report*
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APPENDIX A
SEDIMENT DATA: VOLATILE ORGANICS

MAUMEE RIVER RA 1.0
DOWNSTREAM OF TOLEDO WWTP

LABORATORY NAME: TMA/ERS
CASE NO: OHIOEPAS035

SAMPLE NUMBER :
142924

SAMPLE NUMBER :
142924 R

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

LABORATORY NAME: TMA/ERS CASE NO: AS035
LAB SAMPLE ID NO: V162924R SC REPORT NO:
SAMPLE MATRIX: SOIL CONTRACT NO:
DATE RELEASE AUTHORIZED BY: *Josephine Hnatow* DATE SAMPLE RECEIVED: 11/16/84

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 12/02/84
DATE ANALYZED: 12/02/84
DIL FACTOR: 9.434 PH 7.38
PERCENT MOISTURE: (NOT DECANTED) 61.0

CAS NUMBER	CHLOROMETHANE	UG/KG	CAS NUMBER	UG/KG
74-87-3	CHLOROMETHANE	240. U	79-87-5	1,2-DICHLOROPROPANE
74-83-9	BROMOMETHANE	240. U	10061-02-6	TRANS-1,3-DICHLOROPROENE
75-01-6	VINYL CHLORIDE	240. U	79-01-6	TRICHLOROETHENE
75-00-3	CHLOROETHANE	240. U	124-48-1	DIBROMOCHLOROMETHANE
75-09-2	METHYLENE CHLORIDE	270. B	79-00-5	1,1,2-TRICHLOROETHANE
67-66-1	ACETONE	180. BJ	71-43-2	BENZENE
75-15-0	CARBON DISULFIDE	120. U	10061-01-5	CIS-1,3-DICHLOROPROPENE
75-35-4	1,1-DICHLOROETHENE	120. U	110-75-8	2-CHLOROETHYL VINYL ETHER
75-35-3	1,1-DICHLOROETHANE	120. U	75-25-2	BROMOFORM
154-60-5	TRANS-1,2-DICHLOROETHENE	120. U	100-10-1	4-METHYL-2-PENTANONE
67-66-3	CHLOROFORM	120. U	591-78-4	2-HEXANONE
107-04-2	1,2-DICHLOROETHANE	120. U	127-18-4	TETRACHLOROETHENE
78-93-3	2-BUTANONE	240. U	79-34-5	1,1,2,2-TETRACHLOROETHANE
71-55-6	1,1,1-TRICHLOROETHANE	120. U	100-88-3	TOLUENE
54-23-5	CARBON TETRACHLORIDE	120. U	100-90-7	CHLOROBENZENE
100-05-4	VINYL ACETATE	240. U	100-41-6	ETHYLBENZENE
75-27-4	BROMODICHLOROMETHANE	120. U	100-42-5	STYRENE
				TOTAL XYLENES

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/86
DATE ANALYZED: 01/27/87
CONC/DIL FACTOR: 1.
PERCENT MOISTURE: (DECANTED) 61.0

SEMIVOLATILE COMPOUNDS

GPC CLEANUP X YES NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER	UG/KG	CAS NUMBER	UG/KG	
100-95-2	PHENOL	850. U	83-32-9	ACENAPHTHENE
111-44-4	BIS(2-CHLOROETHYL)ETHER	850. U	51-28-5	2,4-DINITROPHENOL
95-57-8	2-CHLOROPHENOL	850. U	100-02-7	4-NITROPHENOL
541-73-1	1,3-DICHLOROBENZENE	850. U	132-64-9	DIBENZOPURAN
104-66-7	1,4-DICHLOROBENZENE	850. U	121-14-2	2,4-DINITROTOLUENE
100-51-6	BENZYL ALCOHOL	850. U	404-20-2	2,6-DINITROTOLUENE
95-50-1	1,2-DICHLOROBENZENE	850. U	84-44-2	DIETHYL PHTHALATE
95-48-7	2-METHYLPHENOL	850. U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER
39438-32-9	BIS(2-CHLOROISOPROPYL)ETHER	850. U	84-73-7	FLUORENE
100-44-5	4-METHYLPHENOL	1400. U	100-10-6	4-NITROANILINE
421-64-7	N-NITROSO-DI-N-PROPYLAMINE	850. U	534-52-1	4,6-DINITRO-2-METHYLPHENOL
67-72-1	HEXACHLOROETHANE	850. U	84-30-4	N-NITROSODIPHENYLAMINE (1)
98-95-3	NITROBENZENE	850. U	101-55-3	4-BROMOPHENYL-PHENYLETHER
79-59-1	ISOPHORONE	850. U	118-74-1	HEXACHLOROBENZENE
88-75-5	2-NITROPHENOL	850. U	87-84-5	PENTACHLOROPHENOL
105-67-9	2,4-DIMETHYLPHENOL	850. U	85-81-8	PHENANTHRENE
45-85-0	BENZOIC ACID	4100. U	120-12-7	ANTHRACENE
111-91-1	BIS(2-CHLOROETHOXY)METHANE	850. U	86-74-2	DI-N-BUTYL PHTHALATE
120-03-2	2,4-DICHLOROPHENOL	850. U	204-44-0	FLUORANTHENE
120-02-1	1,2,4-TRICHLOROBENZENE	850. U	129-00-0	PYRENE
91-20-3	NAPHTHALENE	380. BJ	85-68-7	BUTYLBENZYL PHTHALATE
106-47-0	4-CHLORODANILINE	850. U	91-94-1	3,3'-DICHLOROBENZIDINE
87-64-3	HEXACHLOROBUTADIENE	850. U	54-55-3	BENZO(A)ANTHRACENE
99-50-7	4-CHLORO-3-METHYLPHENOL	850. U	117-81-7	BIS(2-ETHYLBENZYL)PHTHALATE
91-57-6	2-METHYLNAPHTHALENE	850. U	218-01-9	CHRYSENE
77-47-4	HEXACHLOROCYCLOPENTADIENE	850. U	117-84-0	DI-N-OCTYL PHTHALATE
80-04-2	2,4,4-TRICHLOROPHENOL	850. U	205-99-2	BENZO(B)FLUORANTHENE
95-95-4	2,4,5-TRICHLOROPHENOL	4100. U	207-08-9	BENZO(K)FLUORANTHENE
91-50-7	2-CHLORONAPHTHALENE	850. U	50-32-8	BENZO(A)PYRENE
88-74-4	2-NITROANILINE	4100. U	193-39-5	INDENO(1,2,3-CD)PYRENE
131-11-3	DIMETHYL PHTHALATE	850. U	53-70-3	DIBENZO(A,H)ANTHRACENE
208-96-8	ACENAPHTHYLENE	850. U	191-24-2	BENZO(G,H,I)PERYLENE
99-09-2	3-NITROANILINE	4100. U		

B - COMPOUND WAS DETECTED IN THE SC BLANK.
J - REPORTED VALUE IS LESS THAN THE DETECTION LIMIT.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA REPORTING QUALIFIERS.

FORM I

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM I

Laboratory Name: TMA/ERS, Inc.
Case No: OEPA AS33

Sample Number
162924

MAUMEE RIVER RM 4.9
AT CHERRY ST. BRIDGE

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11-21-86
Date Analyzed: 2-24-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 61

GPC Cleanup Yes No
Separatory Funnel Extraction Yes
Continuous Liquid - Liquid Extraction Yes

CAS Number		ug/l or ug/Kg (Circle One)	
319-84-8	Alpha-BHC	21	U
319-85-7	Beta-BHC	21	U
319-86-8	Delta-BHC	21	U
58-89-9	Gamma-BHC (Lindane)	21	U
75-44-8	Heptachlor	21	U
309-00-2	Aldrin	21	U
1024-57-3	Heptachlor Epoxide	21	U
959-98-8	Endosulfan I	21	U
60-57-1	Dieldrin	42	U
72-55-9	4, 4'-DDE	42	U
72-30-8	Endrin	42	U
33213-85-9	Endosulfan II	42	U
72-54-8	4, 4'-DDD	42	U
1031-07-8	Endosulfan Sulfate	42	U
50-29-3	4, 4'-DDT	42	U
72-43-5	Methoxychlor	210	U
53494-70-5	Endrin Ketone	42	U
57-74-9	Chlordane	210	U
8001-35-2	Toxaphene	420	U
12674-11-2	Aroclor-1016	210	U
11104-28-2	Aroclor-1221	210	U
11141-16-5	Aroclor-1232	210	U
53489-21-9	Aroclor-1242	210	U
12672-29-6	Aroclor-1248	210	U
11097-69-1	Aroclor-1254	420	U
11096-82-5	Aroclor-1260	420	U
	Mixt.	42	U

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

$$w_s \frac{V_i}{V_t} = \frac{12.5}{3.0 \text{ ml}} \times \frac{210}{1000 \text{ ml}} = \text{DRY WT.}$$

1 SAMPLE NUMBER :
16292383

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

LABORATORY NAME: TMA/ERS CASE NO: AS035
LAB SAMPLE ID NO: V16292383 GC REPORT NO:
SAMPLE MATRIX: SOIL CONTRACT NO:
DATA RELEASE AUTHORIZED BY: Joseph C. Hatala DATE SAMPLE RECEIVED: 11/21/86

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/86
DATE ANALYZED: 11/21/86
CONC/DIL FACTOR: 1 PH 7.53
PERCENT MOISTURE: (NOT DECANTED) 55.0

CAS NUMBER	UG/KG	CAS NUMBER	UG/KG
74-87-3	CHLOROMETHANE 22. U	78-87-6	1,2-DICHLOROPROPANE 11. U
74-83-9	BROMOMETHANE 22. U	10041-92-6	TRANS-1,2-DICHLOROPROPENE 11. U
75-01-4	VINYL CHLORIDE 22. U	79-01-6	TRICHLOROETHENE 11. U
75-00-3	CHLOROETHANE 22. U	126-48-1	DIBROMOCHLOROETHANE 11. U
75-09-2	METHYLENE CHLORIDE 51. 8	79-06-5	1,1,2-TRICHLOROETHANE 11. U
67-64-1	ACETONE 44.	71-43-2	BENZENE 11. U
75-15-0	CARBON DISULFIDE 11. U	10041-91-5	CIS-1,2-DICHLOROPROPENE 11. U
75-35-4	1,1-DICHLOROETHENE 11. U	110-75-8	2-CHLOROETHYL VINYLETHER 22. U
75-38-3	1,1-DICHLOROETHANE 11. U	78-29-2	BROMOFORM 11. U
154-60-8	TRANS-1,2-DICHLOROETHENE 11. U	100-10-1	6-METHYL-2-PENTANONE 22. U
67-64-3	CHLOROFORM 11. U	591-78-6	2-HEXANONE 22. U
107-04-2	1,2-DICHLOROETHANE 11. U	127-18-4	TETRACHLOROETHENE 11. U
78-93-3	2-BUTANONE 22. U	79-34-5	1,1,2,2-TETRACHLOROETHANE 22. U
71-55-6	1,1,1-TRICHLOROETHANE 11. U	108-88-3	TOLUENE 11. U
54-23-6	CARBON TETRACHLORIDE 11. U	108-90-7	CHLOROBENZENE 11. U
108-95-6	VINYL ACETATE 22. U	100-41-6	ETHYLBENZENE 11. U
75-27-4	BROMODICHLOROETHANE 11. U	100-42-5	STYRENE 11. U
			TOTAL XYLENES 11. U

B - COMPOUND WAS DETECTED IN THE GC BLANK.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA REPORTING QUALIFIERS.

FORM I

LABORATORY NAME: TMA/ERS : SAMPLE NUMBER :
CASE NO: OHIOEPAS035 : 162923 :

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMI-VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/84
DATE ANALYZED: 01/27/87
CONC/DIL FACTOR: 1
PERCENT MOISTURE: (DECANTED) 55.0

GPC CLEANUP X YES NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER	UG/KG	CAS NUMBER	UG/KG		
100-95-2	PHENOL	730. U	83-32-9	ACENAPHTHENE	1400.
111-64-4	BIS(2-CHLOROETHYL)ETHER	730. U	51-28-8	2,4-DINITROPHENOL	3400. U
95-57-6	2-CHLOROPHENOL	730. U	100-02-7	4-NITROPHENOL	3400. U
961-73-1	1,3-DICHLOROBENZENE	730. U	132-64-9	DIBENZOFURAN	1300.
104-64-7	1,4-DICHLOROBENZENE	730. U	121-14-2	2,6-DINITROTOLUENE	730. U
100-51-6	BENZYL ALCOHOL	730. U	604-20-2	2,6-DINITROTOLUENE	730. U
95-50-1	1,2-DICHLOROBENZENE	730. U	84-64-2	DIMETHYLPHthalate	730. DU
95-58-7	2-METHYLPHENOL	730. U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER	730. U
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	730. U	84-73-7	FLUORENE	2500.
104-64-5	4-METHYLPHENOL	730. U	100-10-6	4-NITROANILINE	3400. U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	730. U	534-52-1	4,6-DINITRO-2-METHYLPHENOL	3400. U
67-72-1	HEXACHLOROETHANE	730. U	84-30-6	N-NITROSOBIPHENYLAMINE (1)	730. U
98-95-3	NITROBENZENE	730. U	101-55-3	4-BROMOPHENYL-PHENYLETHER	730. U
78-59-1	ISOPHORONE	730. U	118-74-1	HEXACHLOROBENZENE	730. U
88-78-5	2-NITROPHENOL	730. U	87-84-5	PENTACHLOROPHENOL	3400. U
105-67-9	2,4-DIMETHYLPHENOL	730. U	85-01-8	PHENANTHRENE	11000.
65-85-0	BENZOIC ACID	3400. U	120-12-7	ANTHRACENE	4400. B
111-91-1	BIS(2-CHLOROETHOXY)METHANE	730. U	84-74-2	DI-N-BUTYLPHthalate	940. B
120-83-2	2,4-DICHLOROPHENOL	730. U	204-44-0	FLUORANTHENE	11000.
120-82-1	1,2,4-TRICHLOROBENZENE	730. U	129-80-0	PYRENE	7300.
91-20-3	NAPHTHALENE	770. B	85-48-7	BUTYLBENZYLPHthalate	730. U
104-67-8	4-CHLOROANILINE	730. U	91-94-1	3,3'-DICHLOROBENZIDINE	1500. U
87-68-3	HEXACHLOROBUTADIENE	730. U	56-55-3	BENZO(A)ANTHRACENE	3900.
59-50-7	6-CHLORO-3-METHYLPHENOL	730. U	117-81-7	BIS(2-ETHYLHEXYL)PHthalate	1100. B
91-57-6	2-METHYLNAPHTHALENE	770. B	218-01-9	CHRYSENE	4000.
77-67-4	HEXACHLOROCYCLOPENTADIENE	730. U	117-84-0	DI-N-OCTYL PHthalate	730. U
88-06-2	2,4,6-TRICHLOROPHENOL	730. U	205-99-2	BENZO(B)FLUORANTHENE	1900.
95-95-4	2,4,5-TRICHLOROPHENOL	3400. U	207-08-9	BENZO(K)FLUORANTHENE	2300.
91-58-7	2-CHLORONAPHTHALENE	730. U	50-32-8	BENZO(A)PYRENE	2300.
88-74-4	2-NITROANILINE	3400. U	193-39-5	INDENO(1,2,3-CD)PYRENE	1500.
131-11-3	DIMETHYL PHthalate	730. U	53-79-3	DIBENZO(A,H)ANTHRACENE	970.
208-74-8	ACENAPHTHYLENE	730. U	191-24-2	BENZO(G,H,I)PERYLENE	1800.
99-09-2	3-NITROANILINE	3400. U			

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM 1

Laboratory Name: TMA/ERG, Inc.
Case No: OEPA A5035

Organics Analysis Data Sheet
(Page 3)

Sample Number
162923

Pesticide/PCBs

Concentration: Low Medium (Circle One) GPC Cleanup Yes No
Date Extracted/Prepared: 11-21-84 Separatory Funnel Extraction Yes
Date Analyzed: 2-24-87 Continuous Liquid-Liquid Extraction Yes
Conc/Dil Factor: 1
Percent Moisture (decanted) 55

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	18 U
319-85-7	Beta-BHC	18 U
319-86-8	Delta-BHC	18 U
58-89-9	Gamma-BHC (Lindane)	18 U
78-44-8	Heptachlor	18 U
309-00-2	Aldrin	18 U
1024-57-3	Heptachlor Epoxide	18 U
959-98-8	Endosulfan I	18 U
60-57-1	Dieldrin	36 U
72-55-9	4,4'-DDE	36 U
72-20-8	Endrin	36 U
33213-85-9	Endosulfan II	36 U
72-54-8	4,4'-DDD	36 U
1031-07-8	Endosulfan Sulfate	36 U
50-29-3	4,4'-DDT	36 U
72-43-5	Methoxychlor	180 U
53494-70-5	Endrin Ketone	36 U
57-74-9	Chlordane	180 U
8001-35-2	Toxaphene	360 U
12674-11-2	Aroclor-1018	180 U
11104-28-2	Aroclor-1221	180 U
11141-16-5	Aroclor-1232	180 U
53489-21-9	Aroclor-1242	180 U
12672-29-6	Aroclor-1248	180 U
11097-69-1	Aroclor-1254	360 U
11096-82-5	Aroclor-1260	360 U

M.C.S.

36 U

V_i = Volume of extract injected (ul)
V_w = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_i _____ or W_s 14g V_w 1000ml V_t 3.0ml
DRY WT.

MAUMISE RIVER RM 9.4

LABORATORY NAME: TNA/ERS
CASE NO: OEPAS036

SAMPLE NUMBER :
143922
1

SAMPLE NUMBER :
V162922R

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

LABORATORY NAME: TNA/ERS CASE NO: A5035
LAB SAMPLE ID NO: V162922R QC REPORT NO:
SAMPLE MATRIX: SOIL CONTRACT NO:
DATE RELEASE AUTHORIZED BY: Joseph C. H. DATE SAMPLE RECEIVED: 11/16/84

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/19/84
DATE ANALYZED: 11/19/84
CONC FACTOR: 1.041666 PH 7.58
PERCENT MOISTURE: (NOT DECANTED) 56.0

CAS NUMBER	NAME	US/KG	CAS NUMBER	NAME	US/KG
74-87-3	CHLOROMETHANE	22. U	78-67-8	1,2-DICHLOROPROPANE	11. U
74-83-9	BROMOMETHANE	22. U	10041-02-6	TRANS-1,3-DICHLOROPROENE	11. U
75-01-4	VINYL CHLORIDE	22. U	79-01-4	TRICHLOROETHENE	6.6J
75-00-3	CHLOROETHANE	22. U	124-48-1	DIBROMOCHLOROMETHANE	11. U
75-09-2	METHYLENE CHLORIDE	15. S	79-00-5	1,1,2-TRICHLOROETHANE	11. U
67-64-1	ACETONE	8.6J	71-43-2	BENZENE	11. U
75-15-0	CARBON DISULFIDE	11. U	10061-01-5	CIS-1,3-DICHLOROPROPENE	11. U
75-35-4	1,1-DICHLOROETHENE	11. U	110-75-8	2-CHLOROETHYL VINYLETHER	22. U
75-35-3	1,1-DICHLOROETHANE	11. U	75-25-2	BROMOFORM	11. U
154-60-5	TRANS-1,2-DICHLOROETHENE	11. U	100-10-1	4-METHYL-2-PENTANONE	22. U
67-66-3	CHLOROPURAN	11. U	591-78-4	2-HEXANONE	22. U
107-04-2	1,2-DICHLOROETHANE	11. U	127-18-4	TETRACHLOROETHENE	11. U
78-93-3	2-BUTANONE	22. U	79-34-5	1,1,2,2-TETRACHLOROETHANE	22. U
71-55-6	1,1,1-TRICHLOROETHANE	11. U	100-88-3	TOLUENE	11. U
54-23-5	CARBON TETRACHLORIDE	11. U	100-96-7	CHLOROBENZENE	11. U
100-05-4	VINYL ACETATE	22. U	100-61-4	ETHYLBENZENE	11. U
75-27-4	BROMODICHLOROMETHANE	11. U	100-42-5	STYRENE	11. U
				TOTAL XYLENES	11. U

B - COMPOUND WAS DETECTED IN THE QC BLANK.
J - REPORTED VALUE IS LESS THAN THE DETECTION LIMIT.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA REPORTING QUALIFIERS.

FORM 1

SEMI-VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/84
DATE ANALYZED: 01/28/87
CONC/OIL FACTOR: 1.
PERCENT MOISTURE: (DECANTED) 56.0

GPC CLEANUP X YES NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER	NAME	US/KG	CAS NUMBER	NAME	US/KG
100-95-2	PHENOL	750. U	83-32-9	ACENAPHTHENE	750. U
111-44-4	BIS(2-CHLOROETHYL)ETHER	750. U	51-28-5	2,4-DINITROPHENOL	3400. U
95-57-8	2-CHLOROPHENOL	750. U	100-02-7	4-NITROPHENOL	3400. U
541-73-1	1,3-DICHLOROBENZENE	750. U	132-64-9	DIBENZOFURAN	750. U
104-44-7	1,4-DICHLOROBENZENE	750. U	121-14-2	2,4-DINITROFLUORENE	750. U
100-51-4	BENZYL ALCOHOL	750. U	604-20-2	2,4-DINITROTOLUENE	750. U
95-50-1	1,2-DICHLOROBENZENE	750. U	84-64-2	DIETHYLPHTHALATE	750. SU
95-48-7	2-METHYLPHENOL	750. U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER	750. U
29438-32-9	BIS(2-CHLOROISOPROPYL)ETHER	750. U	84-73-7	FLUORENE	750. U
104-44-5	4-METHYLPHENOL	750. U	100-10-6	4-NITROANILINE	3400. U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	750. U	534-82-1	4,4-DINITRO-2-METHYLPHENOL	3400. U
67-72-1	HEXACHLOROETHANE	750. U	84-38-6	N-NITROSO-DIPHENYLAMINE (1)	750. U
98-95-3	NITROBENZENE	750. U	101-55-3	4-BROMOPHENYL-PHENYLETHER	750. U
78-59-1	ISOPHORONE	750. U	110-74-1	HEXACHLOROBENZENE	750. U
88-75-5	2-NITROPHENOL	750. U	87-84-5	PENTACHLOROPHENOL	3400. U
105-67-9	2,4-DIMETHYLPHENOL	750. U	85-01-8	PHENANTHRENE	750. U
68-85-0	BENZOIC ACID	3400. U	120-12-7	ANTHRACENE	750. SU
111-91-1	BIS(2-CHLOROETHOXY)METHANE	750. U	84-74-2	DI-N-BUTYLPHTHALATE	750. SU
120-82-2	2,4-DICHLOROPHENOL	750. U	204-44-0	FLUORANTHENE	190. J
120-82-1	1,2,4-TRICHLOROBENZENE	750. U	129-00-0	PYRENE	750. U
91-20-3	NAPHTHALENE	750. SU	85-48-7	BUTYL BENZYLPHTHALATE	750. U
106-47-8	4-CHLORANILINE	750. U	91-94-1	3,3'-DICHLOROBENZIDINE	1800. U
87-68-3	HEXACHLOROBUTADIENE	750. U	54-53-3	BENZO(A)ANTHRACENE	750. U
59-50-7	4-CHLORO-3-METHYLPHENOL	750. U	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	350. SJ
91-57-6	2-METHYLNAPHTHALENE	750. U	210-01-9	CHRYSENE	750. U
77-47-4	HEXACHLOROCCYCLOPENTADIENE	750. U	117-84-0	DI-N-OCTYL PHTHALATE	750. U
88-04-2	2,4,6-TRICHLOROPHENOL	750. U	205-99-2	BENZO(B)FLUORANTHENE	750. U
95-95-6	2,4,5-TRICHLOROPHENOL	3400. U	207-08-9	BENZO(K)FLUORANTHENE	750. U
91-58-7	2-CHLORONAPHTHALENE	750. U	50-32-6	BENZO(A)PYRENE	750. U
88-74-4	2-NITROANILINE	3400. U	192-39-5	INDENO(1,2,3-CD)PYRENE	750. U
131-11-3	DIMETHYL PHTHALATE	750. U	53-70-3	DIBENZO(A,H)ANTHRACENE	750. U
208-94-8	ACENAPHTHYLENE	750. U	191-24-2	BENZO(G,H,I)PERYLENE	750. U
99-09-2	3-NITROANILINE	3400. U			

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM 1

Laboratory Name: TMA/ERG, Inc.
Case No. OEPA A5035

Sample Number
162922

OTTAWA RIVER RM 4.9
AT STICKNEY AVE.

Organics Analysis Data Sheet
(Page 3)

SAMPLE NUMBER
VI62930R

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

Pesticide/PCBs
Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11-21-86
Date Analyzed: 2-24-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 5.6

GPC Cleanup Yes No
Separatory Funnel Extraction Yes
Continuous Liquid-Liquid Extraction Yes

LABORATORY NAME: TMA/ERG CASE NO: A5035
LAB SAMPLE ID NO: VI62930R QC REPORT NO:
SAMPLE MATRIX: SOIL CONTRACT NO:
DATA RELEASE AUTHORIZED BY: Joseph A. Hnat DATE SAMPLE RECEIVED: 11/18/86

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/19/86
DATE ANALYZED: 11/19/86
CONC FACTOR: 1.023541 PH 7.76
PERCENT MOISTURE: (NOT DECANTED) 14.0

CAS Number	Chemical Name	ug/l or ug/kg (Circle One)	
319-84-6	Alpha-BHC	18	U
319-85-7	Beta-BHC	18	U
319-86-8	Delta-BHC	18	U
58-89-8	Gamma-BHC (Lindane)	18	U
76-44-8	Heptachlor	18	U
309-00-2	Aldrin	18	U
1024-57-3	Heptachlor Epoxide	18	U
959-98-8	Endosulfan I	18	U
80-57-1	Dieldrin	36	U
72-55-9	4,4'-DDE	36	U
72-20-8	Endrin	36	U
33213-85-9	Endosulfan II	36	U
72-54-8	4,4'-DDD	36	U
1031-07-8	Endosulfan Sulfate	36	U
50-29-3	4,4'-DDT	36	U
72-43-5	Methoxychlor	180	U
53494-70-5	Endrin Ketone	36	U
57-74-9	Chlordane	180	U
8001-35-2	Toxaphene	360	U
12874-11-2	Aroclor-1016	180	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	180	U
53469-21-9	Aroclor-1242	180	U
12672-29-6	Aroclor-1248	180	U
11097-69-1	Aroclor-1254	360	U
11096-82-5	Aroclor-1260	360	U
Mix		36	U

CAS NUMBER	NAME	UG/KG	CAS NUMBER	NAME	UG/KG
76-87-3	CHLOROMETHANE	15. U	78-87-8	1,2-DICHLOROPROPANE	7.4U
76-83-9	BROMOMETHANE	15. U	10061-02-6	TRANS-1,3-DICHLOROPROENE	7.4U
75-01-4	VINYL CHLORIDE	15. U	79-01-6	TRICHLOROETHENE	7.4U
75-00-3	CHLOROETHANE	15. U	126-48-1	DIBROMOCHLOROETHANE	7.4U
75-09-2	METHYLENE CHLORIDE	16. 8	79-00-5	1,1,2-TRICHLOROETHANE	7.4U
67-64-1	ACETONE	15. U	71-43-2	BENZENE	7.4U
75-15-0	CARBON DISULFIDE	7.4U	10061-01-5	CIS-1,3-DICHLOROPROPENE	7.4U
75-28-4	1,1-DICHLOROETHENE	7.4U	110-75-8	2-CHLOROETHYL VINYLETHER	15. U
75-28-3	1,1-DICHLOROETHANE	7.4U	75-28-2	BROMOFORM	7.4U
156-60-6	TRANS-1,2-DICHLOROETHENE	7.4U	100-10-1	4-METHYL-2-PENTANONE	15. U
67-66-3	CHLOROFORM	7.4U	591-78-6	2-HEXANONE	15. U
107-66-2	1,2-DICHLOROETHANE	7.4U	127-18-4	TETRACHLOROETHENE	7.6U
78-93-3	2-BUTANONE	15. U	79-34-5	1,1,2,2-TETRACHLOROETHANE	15. U
71-55-6	1,1,1-TRICHLOROETHANE	7.4U	100-68-3	TOLUENE	7.4U
56-23-5	CARBON TETRACHLORIDE	7.4U	100-90-7	CHLOROBENZENE	7.4U
100-65-4	VINYL ACETATE	15. U	100-41-4	ETHYL BENZENE	7.4U
75-27-4	BROMODICHLOROETHANE	7.4U	100-42-5	STYRENE	7.4U
				TOTAL XYLENES	7.4U

B - COMPOUND WAS DETECTED IN THE QC BLANK.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA REPORTING QUALIFIERS.

FORM 1

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_s _____ or W_s 13g V_t 1000ul V_i 3.0ul
DRY WT.

LABORATORY NAME: TNA/ERO
CASE NO: OHDEPAS935

SAMPLE NUMBER:
142930

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMI-VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/84
DATE ANALYZED: 02/03/87
DIL FACTOR: 2.000
PERCENT MOISTURE: (DECANTED) 34.0

GPC CLEANUP X YES NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER	UG/KG	CAS NUMBER	UG/KG
108-95-2	PHENOL	83-32-9	ACENAPHTHENE
111-44-4	BIS(2-CHLOROETHYL)ETHER	51-28-5	2,4-DINITROPHENOL
95-57-8	2-CHLOROPHENOL	100-82-7	4-NITROPHENOL
541-73-1	1,3-DICHLOROBENZENE	132-44-9	DIBENZOFURAN
104-44-7	1,4-DICHLOROBENZENE	121-14-2	2,4-DINITROTOLUENE
100-61-6	BENZYL ALCOHOL	604-28-2	2,4-DINITROTOLUENE
95-50-1	1,2-DICHLOROBENZENE	84-44-2	DIETHYL PHTHALATE
95-48-7	2-METHYLPHENOL	7005-72-3	4-CHLOROPHENYL-PHENYLETHER
39438-22-9	BIS(2-CHLOROISOPROPYL)ETHER	84-73-7	FLUORENE
104-44-5	4-METHYLPHENOL	100-10-6	4-NITROANILINE
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	834-52-1	4,4-DINITRO-2-METHYLPHENOL
47-72-1	HEXACHLOROETHANE	84-38-6	N-NITROSOBIPHENYLAMINE (1)
90-95-3	NITROBENZENE	101-85-3	4-BROMOPHENYL-PHENYLETHER
78-59-1	ISOPHORONE	118-74-1	HEXACHLOROBENZENE
88-75-5	2-NITROPHENOL	87-84-5	PENTACHLOROPHENOL
105-47-9	2,4-DIMETHYLPHENOL	95-81-8	PHENANTHRENE
45-85-0	BENZOIC ACID	120-12-7	ANTHRACENE
111-91-1	BIS(2-CHLOROETHOXY)METHANE	84-74-2	DI-N-BUTYL PHTHALATE
120-83-2	2,4-DICHLOROPHENOL	204-44-0	FLUORANTHENE
120-82-1	1,2,4-TRICHLOROBENZENE	129-00-0	PYRENE
91-20-3	NAPHTHALENE	85-48-7	BUTYLBENZYL PHTHALATE
104-67-8	4-CHLOROANILINE	91-94-1	3,3'-DICHLOROBENZIDINE
87-68-3	HEXACHLOROBUTADIENE	54-55-3	BENZO(A)ANTHRACENE
59-50-7	4-CHLORO-3-METHYLPHENOL	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE
91-57-6	2-METHYLNAPHTHALENE	218-81-9	CHRYSENE
77-47-4	HEXACHLOROCYCLOPENTADIENE	117-84-0	DI-N-OCTYL PHTHALATE
88-04-2	2,4,6-TRICHLOROPHENOL	285-99-2	BENZO(B)FLUORANTHENE
95-95-4	2,4,5-TRICHLOROPHENOL	207-08-9	BENZO(K)FLUORANTHENE
91-58-7	2-CHLORONAPHTHALENE	50-32-8	BENZO(A)PYRENE
80-74-4	2-NITROANILINE	193-39-3	INDENO(1,2,3-CD)PYRENE
131-11-3	DIMETHYL PHTHALATE	53-70-3	DIBENZO(A,H)ANTHRACENE
208-94-8	ACENAPHTHYLENE	191-24-2	BENZO(G,H,I)PERYLENE
99-09-2	3-NITROANILINE		

(1) - CANNOT BE SEPARATED FROM BIPHENYLAMINE

FORM 1

Laboratory Name: TNA/ERO, Inc.
Case No: OEPA AS035

Sample Number:
162930

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11-21-84
Date Analyzed: 2-24-87
Conc/Oil Factor: 1
Percent Moisture (decanted): 34

GPC Cleanup Yes No
Separatory Funnel Extraction Yes
Continuous Liquid-Liquid Extraction Yes

CAS Number	ug/100ug/Kg (Circle One)	
319-84-6	Alpha-BHC	12 U
319-85-7	Beta-BHC	12 U
319-86-8	Gamma-BHC	12 U
58-89-9	Gamma-BHC (Lincane)	12 U
78-44-8	Mectachlor	12 U
309-00-2	Aldrin	12 U
1024-57-3	Mectachlor Epoxide	12 U
959-98-8	Endosulfan I	12 U
80-57-1	Dieldrin	24 U
72-55-9	4,4'-DDE	24 U
72-20-8	Endrin	24 U
33213-66-9	Endosulfan II	24 U
72-54-8	4,4'-DDD	24 U
1031-07-8	Endosulfan Sulfate	24 U
50-29-3	4,4'-DDT	24 U
72-43-5	Methoxychlor	120 U
53494-70-5	Endrin Ketone	24 U
57-74-9	Chlordane	120 U
8001-35-2	Toxaphene	240 U
12874-11-2	Aroclor-1016	120 U
11104-28-2	Aroclor-1221	120 U
11141-16-5	Aroclor-1232	120 U
53469-21-9	Aroclor-1242	2500 U
12672-29-6	Aroclor-1248	120 U
11097-69-1	Aroclor-1254	240 U
11096-82-5	Aroclor-1260	240 U
	Misc	24 U

V = Volume of extract injected (ul)
V_w = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

V_w _____ W_s 2.0g V_t 1000 ul 3.0 ul
DRY WT.

OTTAWA RIVER RM 6.4
AT LORANGE ST.

LABORATORY NAME: THA/ERS
CASE NO: 5033

SAMPLE NUMBER :
16292

SAMPLE NUMBER :
1V162129 R2:

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

ORGANICS ANALYSIS DATA SHEET
(PAGE 1)

LABORATORY NAME: THA/ERS CASE NO: A5033
LAB SAMPLE ID NO: V162929R2 BC REPORT NO:
SAMPLE MATRIX: SOIL CONTRACT NO:
DATA RELEASE AUTHORIZED BY: *Joseph A. Havel* SAMPLE RECEIVED: 11/14/86

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/19/86
DATE ANALYZED: 11/19/86
CONC FACTOR: 1.036126 PH 7.55
PERCENT MOISTURE: (NOT DECANTED) 35.0

CAS NUMBER	US/KG	CAS NUMBER	US/KG
74-87-3	15. U	78-07-5	7.4U
74-87-4	15. U	10061-02-6	7.4U
75-01-4	15. U	79-01-4	6.8J
75-00-3	15. U	124-40-1	7.4U
75-09-2	14. B	79-00-5	7.4U
67-66-1	5.3J	75-43-2	7.4U
75-15-0	7.4U	10061-01-5	7.4U
75-35-4	7.4U	110-75-8	15. U
75-35-3	7.4U	75-28-2	7.4U
154-40-5	7.4U	100-10-1	15. U
67-46-3	7.4U	591-78-4	15. U
107-06-2	7.4U	127-10-4	7.4U
78-93-3	15. U	79-34-5	15. U
71-55-4	7.4U	100-88-3	7.4U
54-23-5	7.4U	100-10-7	7.4U
100-05-4	15. U	100-41-4	7.4U
75-27-4	7.4U	100-42-5	7.4U
		TOTAL XYLENES	7.4U

B - COMPOUND WAS DETECTED IN THE BC BLANK.
J - REPORTED VALUE IS LESS THAN THE DETECTION LIMIT.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR THE SAMPLE.

SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA REPORTING QUALIFIERS.

FORM 1

SEMI-VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/21/86
DATE ANALYZED: 01/23/87
CONC/OIL FACTOR: 1.
PERCENT MOISTURE: (DECANTED) 35.0

GPC CLEANUP X YES NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER	US/KG	CAS NUMBER	US/KG
100-95-2	510. U	83-32-9	510. U
111-44-4	510. U	51-28-5	2500. U
95-57-0	510. U	100-02-7	2500. U
541-72-1	510. U	122-64-9	510. U
106-44-7	510. U	121-14-2	510. U
100-51-4	510. U	404-20-2	510. U
93-50-1	510. U	84-66-2	510. BU
95-48-7	510. U	7005-72-3	510. U
39638-32-9	510. U	84-73-7	510. U
106-44-5	510. U	100-10-4	2500. U
421-64-7	510. U	534-52-1	2500. U
67-72-1	510. U	86-30-4	510. U
98-95-3	510. U	101-55-3	510. U
78-59-1	510. U	110-74-1	510. U
88-75-5	510. U	97-84-5	2500. U
105-67-9	510. U	85-01-8	2000.
45-05-0	2500. U	120-12-7	510. BU
111-91-1	510. U	84-74-2	510. BU
120-03-2	510. U	204-44-0	4900.
120-02-1	510. U	129-00-0	510. U
91-20-3	510. BU	85-60-7	510. U
104-67-0	510. U	91-94-1	1000. U
87-60-3	510. U	14-55-3	510. U
59-50-7	510. U	117-01-7	510. BU
91-57-6	510. U	210-01-9	510. U
77-47-4	510. U	117-84-0	510. U
88-04-2	510. U	205-99-2	510. U
95-95-4	2500. U	207-08-9	510. U
91-58-7	510. U	50-32-0	510. U
88-74-4	2500. U	193-39-5	510. U
131-11-3	510. U	53-70-3	510. U
208-94-0	140. J	191-24-2	510. U
99-09-2	2500. U		

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM 1

Laboratory Name TMA/ER.G, Inc.
Case No OEPA ASD35

Sample Number
162929

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11-21-86
Date Analyzed: 2-25-87
Conc/Dil Factor: 1
Percent Moisture (decanted): 35

GPC Cleanup Yes No
Separatory Funnel Extraction Yes
Continuous Liquid - Liquid Extraction Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-8	Alpha-BHC	12 U
319-85-7	Beta-BHC	12 U
319-86-8	Gamma-BHC	12 U
58-89-9	Gamma-BHC (Lindane)	12 U
74-44-8	Heptachlor	12 U
309-00-2	Aldrin	12 U
1024-57-3	Heptachlor Epoxide	12 U
959-98-8	Endosulfan I	12 U
60-57-1	Dieldrin	24 U
72-55-9	4, 4'-DDE	24 U
72-20-8	Endrin	24 U
33213-85-9	Endosulfan II	24 U
72-54-8	4, 4'-DDD	24 U
1031-07-8	Endosulfan Sulfate	24 U
50-29-3	4, 4'-DDT	24 U
72-43-5	Methoxychlor	120 U
53494-70-5	Endrin Ketone	24 U
57-74-9	Chlordane	120 U
8001-35-2	Toxaphene	240 U
12674-11-2	Aroclor-1016	120 U
11104-28-2	Aroclor-1221	120 U
11141-16-5	Aroclor-1232	120 U
53469-21-9	Aroclor-1242	70
12672-29-6	Aroclor-1248	120 U
11097-89-1	Aroclor-1254	70
11096-82-5	Aroclor-1260	240 U

Mirex 24 U

V_1 = Volume of extract injected (ul)
 V_2 = Volume of water extracted (ml)
 W_3 = Weight of sample extracted (g)
 V_1 = Volume of total extract (ul)

V_2 _____ or W_3 20g V_1 1000 ul V_1 3.0 ul
DRY WT.

TEN MILE CREEK RM 41 SYLVANIA AVE.

Organics Analysis Data Sheet
(Page 1)

Sample Number
162273

Laboratory Name: E.R.G., Inc. Case No: OEPA 14977
Lab Sample ID No: 162273 QC Report No: _____
Sample Matrix: SOIL/SED. Contract No: 360336-61
Data Release Authorized By: _____ Date Sample Received: 11/5/86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/7/86
Date Analyzed: 11/2/86
Conc/Dil Factor: 1 pH 6.7
Percent Moisture (Not Decanted): 22

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	73 U
74-83-9	Bromomethane	15 U
75-01-4	Vinyl Chloride	13 U
75-00-3	Chloroethane	17 U
75-09-2	Methylene Chloride	16 U
67-64-1	Acetone	17 U
75-15-0	Carbon Disulfide	6 U
75-35-4	1, 1-Dichloroethane	6 U
76-34-3	1, 1-Dichloroethane	6 U
156-60-8	Trans-1, 2-Dichloroethane	6 U
67-68-3	Chloroform	6 U
107-06-2	1, 2-Dichloroethane	6 U
78-93-3	2-Butanone	13 U
71-55-6	1, 1, 1-Trichloroethane	6 U
56-23-5	Carbon Tetrachloride	6 U
108-05-4	Vinyl Acetate	13 U
75-27-4	Bromodichloromethane	6 U

CAS Number		ug/l or ug/Kg (Circle One)
78-87-5	1, 2-Dichloropropane	6 U
10061-02-8	Trans-1, 3-Dichloropropane	6 U
79-01-6	Trichloroethane	6 U
124-48-1	Dibromochloromethane	6 U
78-00-5	1, 1, 2-Trichloroethane	6 U
71-43-2	Benzene	6 U
10061-01-5	cis-1, 3-Dichloropropane	6 U
110-75-8	2-Chloroethylvinylether	13 U
75-25-2	Bromoforn	6 U
108-10-1	4-Methyl-2-Pentanone	13 U
591-78-8	2-Hexanone	13 U
127-18-4	Tetrachloroethane	6 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	6 U
108-88-3	Toluene	6 U
108-90-7	Chlorobenzene	6 U
100-41-4	Ethylbenzene	6 U
100-42-5	Styrene	6 U
	Total Xylenes	6 U

Date Reporting Outliers
For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- V** Value If the result is a value greater than or equal to the detection limit, report the value.
- U** Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 100) based on necessary concentration/dilution action. (This is not necessarily the instrument detection limit.) The footnote should read "U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample."
- J** Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 100). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.
- C** This flag applies to pesticide determinations where the identification has been confirmed by GC/MS. Single component pesticides ≥ 10 ng/ml in the final extract should be confirmed by GC/MS.
- S** This flag is used when the analyte is found in the blank as well as a sample. It indicates possible probable blank contamination and warns the data user to take appropriate action.
- NR** No value required.

LABORATORY NAME: THA/ERS
CASE NO: A4989

SAMPLE NUMBER:
162273

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/07/86
DATE ANALYZED: 12/20/86
CONC FACTOR: 1.016268
PERCENT MOISTURE: (DECANTED) 22

SPEC CLEANUP YES "X" NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER	UG/KG	CAS NUMBER	UG/KG
108-95-2	PHENOL	83-32-9	ACENAPHTHENE
111-44-6	BIS(2-CHLOROETHYL)ETHER	81-20-5	2,4-DINITROPHENOL
95-57-8	2-CHLOROPHENOL	100-02-7	4-NITROPHENOL
941-73-1	1,3-DICHLOROBENZENE	132-64-9	DIBENZOFURAN
104-64-7	1,4-DICHLOROBENZENE	121-14-2	2,4-DINITROTOLUENE
100-51-6	BENZYL ALCOHOL	404-20-2	2,6-DINITROTOLUENE
95-50-1	1,2-DICHLOROBENZENE	86-44-2	DIETHYLPHTHALATE
95-48-7	2-METHYLPHENOL	7005-72-3	4-CHLOROPHENYL-PHENYLETHER
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	86-73-7	FLUORENE
104-66-5	4-METHYLPHENOL	100-10-6	4-NITROANILINE
621-66-7	N-NITROSO-DI-N-PROPYLAMINE	534-82-1	6,6-DINITRO-2-METHYLPHENOL
67-72-1	HEXACHLOROETHANE	86-30-6	N-NITROSODIPHENYLAMINE (1)
78-95-3	NITROBENZENE	101-55-3	4-BROMOPHENYL-PHENYLETHER
78-59-1	ISOPHORONE	118-74-1	HEXACHLOROBENZENE
89-73-5	2-NITROPHENOL	87-86-5	PENTACHLOROPHENOL
105-67-9	2,4-DIMETHYLPHENOL	85-01-8	PHENANTHRENE
65-85-0	BENZOIC ACID	120-12-7	ANTHRACENE
111-91-1	BIS(2-CHLOROETHOXY)METHANE	84-74-2	DI-N-BUTYLPHTHALATE
120-83-2	2,4-DICHLOROPHENOL	204-44-0	FLUORANTHENE
120-82-1	1,2,4-TRICHLOROBENZENE	129-00-0	PYRENE
91-20-2	NAPHTHALENE	85-48-7	BUTYLBENZYLPHTHALATE
106-47-8	4-CHLOROPHTHALINE	91-94-1	3,3'-DICHLOROBENZIDINE
87-68-3	HEXACHLOROBTADIENE	56-55-3	BENZO(A)ANTHRACENE
57-50-7	4-CHLORO-3-METHYLPHENOL	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE
91-57-6	2-METHYLNAPHTHALENE	218-01-9	CHRYSENE
77-47-6	HEXACHLOROCYCLOPENTADIENE	117-84-0	DI-N-OCTYL PHTHALATE
88-04-2	2,4,6-TRICHLOROPHENOL	205-99-2	BENZO(B)FLUORANTHENE
78-95-4	2,4,5-TRICHLOROPHENOL	207-88-9	BENZO(K)FLUORANTHENE
91-58-7	2-CHLORONAPHTHALENE	50-32-8	BENZO(A)PYRENE
88-74-4	2-NITROANILINE	193-39-8	INDENO(1,2,3-CD)PYRENE
131-11-3	DIMETHYL PHTHALATE	53-70-3	DIBENZO(A,H)ANTHRACENE
208-96-8	ACENAPHTHYLENE	191-24-2	BENZO(G,H,12)PERYLENE
99-09-2	2-NITROANILINE	2000. U	

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM 1

Laboratory Name: THA/ERS, Inc.
Case No: OEPA A4989

Sample Number:
162273

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11-7-86
Date Analyzed: 2-3-87
Conc/Oil Factor: 1
Percent Moisture (decanted): 22

GPC Cleanup Yes No
Separatory Funnel Extraction Yes
Continuous Liquid-Liquid Extraction Yes

CAS Number		ug/l or ug/kg (Circle One)
319-84-6	Alpha-BHC	10 U
319-85-7	Beta-BHC	10 U
319-86-8	Delta-BHC	10 U
58-89-9	Gamma-BHC (Lindane)	10 U
78-44-8	Heptachlor	10 U
309-00-2	Alarin	10 U
1024-57-3	Heptachlor Epoxide	10 U
959-98-8	Endosulfan I	10 U
60-57-1	Dieldrin	20 U
72-35-3	4,4'-DDE	20 U
72-20-8	Endrin	20 U
33213-65-9	Endosulfan II	20 U
72-54-8	4,4'-DDD	20 U
1031-07-8	Endosulfan Sulfate	20 U
50-29-3	4,4'-DDT	20 U
72-43-5	Methoxychlor	100 U
53494-70-5	Endrin Ketone	20 U
57-74-9	Chlordane	100 U
8001-35-2	Toxaphene	200 U
12874-11-2	Aroclor-1016	100 U
11104-28-2	Aroclor-1221	100 U
11141-16-5	Aroclor-1232	100 U
53469-21-9	Aroclor-1245	100 U
12872-29-6	Aroclor-1248	100 U
11097-49-1	Aroclor-1254	200 U
11096-82-5	Aroclor-1260	200 U

MILBEX

- V = Volume of extract injected (ul)
- V₁ = Volume of water extracted (ml)
- W_s = Weight of sample extracted (g)
- V_t = Volume of total extract (ul)

V₁ _____ or W_s 23 g V_t 1000 ul V_t 3.0 ul
DRY WT.

SWAN CREEK AT COLLINGWOOD BLVD. RM 1.2

: SAMPLE NUMBER :
: :
: V162928 :ORGANICS ANALYSIS DATA SHEET
(PAGE 1)LABORATORY NAME: TNA/ERS CASE NO: A5025
LAB SAMPLE ID NO: V162928 GC REPORT NO:
SAMPLE MATRIX: SOIL CONTRACT NO:
DATE RELEASE AUTHORIZED BY: *Joseph C. Hatcher* DATE SAMPLE RECEIVED: 11/14/86

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/19/86
DATE ANALYZED: 11/19/86
CONC/DIL FACTOR: 1. PH 7.68
PERCENT MOISTURE: (NOT DECANTED) 10.0

CAS NUMBER	UG/KG	CAS NUMBER	UG/KG
74-87-3	CHLOROMETHANE 22. U	78-87-5	1,2-DICHLOROPROPANE 11. U
74-83-9	BROMOMETHANE 22. U	10061-02-6	TRANS-1,3-DICHLOROPROENE 11. U
75-01-4	VINYL CHLORIDE 22. U	79-01-6	TRICHLOROETHENE 19.
75-00-3	CHLOROETHANE 22. U	124-48-1	DIBROMOCHLOROETHANE 11. U
75-09-2	METHYLENE CHLORIDE 13. B	79-00-5	1,1,2-TRICHLOROETHANE 11. U
67-64-1	ACETONE 22. U	71-43-2	BENZENE 11. U
75-15-0	CARBON DISULFIDE 11. U	10061-01-5	CIS-1,3-DICHLOROPROPENE 11. U
75-35-4	1,1-DICHLOROETHENE 11. U	110-75-0	2-CHLOROETHYL VINYLETHYR 22. U
75-35-3	1,1-DICHLOROETHANE 11. U	75-25-2	BROMOFORM 11. U
100-40-5	TRANS-1,2-DICHLOROETHENE 11. U	100-10-1	4-METHYL-2-PENTANONE 22. U
67-66-3	CHLOROFORM 11. U	991-78-6	2-HEXANONE 22. U
107-04-2	1,2-DICHLOROETHANE 11. U	127-18-4	TETRACHLOROETHENE 11. U
78-93-3	2-BUTANONE 22. U	79-34-6	1,1,2,2-TETRACHLOROETHANE 22. U
71-55-4	1,1,1-TRICHLOROETHANE 11. U	100-88-3	TOLUENE 11. U
54-23-5	CARBON TETRACHLORIDE 11. U	100-90-7	CHLOROBENZENE 11. U
100-05-4	VINYL ACETATE 22. U	100-41-4	ETHYLBENZENE 11. U
75-27-4	BROMODICHLOROETHANE 11. U	100-42-5	STYRENE 11. U
			TOTAL XYLENES 11. U

B - COMPOUND WAS DETECTED IN THE GC BLANK.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED
VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR
THE SAMPLE.SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA
REPORTING QUALIFIERS.

SWAN CREEK AT COLLINGWOOD BLVD. RM 1.2

: SAMPLE NUMBER :
: :
: V162928 :ORGANICS ANALYSIS DATA SHEET
(PAGE 1)LABORATORY NAME: TNA/ERS CASE NO: A5025
LAB SAMPLE ID NO: V162928 GC REPORT NO:
SAMPLE MATRIX: SOIL CONTRACT NO:
DATE RELEASE AUTHORIZED BY: *Joseph C. Hatcher* DATE SAMPLE RECEIVED: 11/14/86

VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/20/86
DATE ANALYZED: 11/20/86
CONC/DIL FACTOR: 1. PH 7.68
PERCENT MOISTURE: (NOT DECANTED) 10.0

CAS NUMBER	UG/KG	CAS NUMBER	UG/KG
74-87-3	CHLOROMETHANE 22. U	78-87-5	1,2-DICHLOROPROPANE 11. U
74-83-9	BROMOMETHANE 22. U	10061-02-6	TRANS-1,3-DICHLOROPROENE 11. U
75-01-4	VINYL CHLORIDE 22. U	79-01-6	TRICHLOROETHENE 6.2J
75-00-3	CHLOROETHANE 22. U	124-48-1	DIBROMOCHLOROETHANE 11. U
75-09-2	METHYLENE CHLORIDE 13. B	79-00-5	1,1,2-TRICHLOROETHANE 11. U
67-64-1	ACETONE 39.	71-43-2	BENZENE 11. U
75-15-0	CARBON DISULFIDE 11. U	10061-01-5	CIS-1,3-DICHLOROPROPENE 11. U
75-35-4	1,1-DICHLOROETHENE 11. U	110-75-0	2-CHLOROETHYL VINYLETHYR 22. U
75-35-3	1,1-DICHLOROETHANE 11. U	75-25-2	BROMOFORM 11. U
100-40-5	TRANS-1,2-DICHLOROETHENE 11. U	100-10-1	4-METHYL-2-PENTANONE 22. U
67-66-3	CHLOROFORM 11. U	991-78-6	2-HEXANONE 22. U
107-04-2	1,2-DICHLOROETHANE 11. U	127-18-4	TETRACHLOROETHENE 11. U
78-93-3	2-BUTANONE 22. U	79-34-6	1,1,2,2-TETRACHLOROETHANE 22. U
71-55-4	1,1,1-TRICHLOROETHANE 11. U	100-88-3	TOLUENE 11. U
54-23-5	CARBON TETRACHLORIDE 11. U	100-90-7	CHLOROBENZENE 11. U
100-05-4	VINYL ACETATE 39.	100-41-4	ETHYLBENZENE 11. U
75-27-4	BROMODICHLOROETHANE 11. U	100-42-5	STYRENE 11. U
			TOTAL XYLENES 11. U

B - COMPOUND WAS DETECTED IN THE GC BLANK.
J - REPORTED VALUE IS LESS THAN THE DETECTION LIMIT.
U - COMPOUND ANALYZED FOR BUT NOT DETECTED. THE REPORTED
VALUE IS THE MINIMUM ATTAINABLE DETECTION LIMIT FOR
THE SAMPLE.SEE PAGE 1A FOR COMPLETE DEFINITIONS OF THE DATA
REPORTING QUALIFIERS.

LABORATORY NAME: THA/ERS
CASE NO: OHIOEPAS035

SAMPLE NUMBER:
162928

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMI-VOLATILE COMPOUNDS

CONCENTRATION: LOW SPC CLEANUP X YES NO
DATE EXTRACTED/PREPARED: 11/21/86 SEPARATORY FUNNEL EXTRACTION YES
DATE ANALYZED: 02/03/87 CONTINUOUS LIQUID-LIQUID EXTRACTION YES
DIL FACTOR: 4.000
PERCENT MOISTURE: (DECANTED) 54.0

CAS NUMBER	UG/KG	CAS NUMBER	UG/KG
100-95-2	PHENOL	83-32-9	ACENAPHTHENE
111-44-4	BIS(2-CHLOROETHYL)ETHER	51-28-5	2,4-DINITROPHENOL
95-57-8	2-CHLOROPHENOL	100-02-7	4-NITROPHENOL
561-73-1	1,3-DICHLOROBENZENE	132-64-9	DIBENZOFURAN
106-44-7	1,4-DICHLOROBENZENE	121-14-2	2,4-DINITROTOLUENE
100-51-4	BENZYL ALCOHOL	604-20-2	2,6-DINITROTOLUENE
95-50-1	1,2-DICHLOROBENZENE	84-46-2	DIETHYLPHTHALATE
95-48-7	2-METHYLPHENOL	7005-72-3	4-CHLOROPHENYL-PHENYLETHER
39430-32-9	BIS(2-CHLOROISOPROPYL)ETHER	86-73-7	FLUORENE
100-64-5	4-METHYLPHENOL	100-10-6	4-NITROANILINE
421-64-7	N-NITROSO-DI-N-PROPYLAMINE	534-52-1	4,6-DINITRO-2-METHYLPHENOL
67-72-1	HEXACHLOROETHANE	84-30-6	N-NITROSODIPHENYLAMINE (1)
98-95-3	NITROBENZENE	101-55-3	4-BROMOPHENYL-PHENYLETHER
78-59-1	ISOPHORONE	158-74-1	HEXACHLOROBENZENE
88-75-4	2-NITROPHENOL	87-84-5	PENTACHLOROPHENOL
105-47-9	2,4-DIMETHYLPHENOL	85-01-0	PHENANTHRENE
65-85-0	BENZOIC ACID	120-12-7	ANTHRACENE
111-91-1	BIS(2-CHLOROETHOXY)METHANE	84-74-2	DI-N-BUTYLPHTHALATE
120-83-2	2,4-DICHLOROPHENOL	204-44-0	FLUORANTHENE
120-82-1	1,2,4-TRICHLOROBENZENE	129-00-0	PYRENE
91-20-3	NAPHTHALENE	85-48-7	BUTYL BENZYLPHTHALATE
104-47-8	4-CHLOROBENZENE	91-74-1	3,3'-DICHLOROBENZIDINE
87-68-3	HEXACHLOROBUTADIENE	56-55-3	BENZO(A)ANTHRACENE
59-50-7	4-CHLORO-3-METHYLPHENOL	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE
91-57-4	2-METHYLNAPHTHALENE	210-01-9	CHRYSENE
77-47-4	HEXACHLOROCCYCLOPENTADIENE	117-84-0	DI-N-OCTYL PHTHALATE
88-04-2	2,4,6-TRICHLOROPHENOL	205-99-2	BENZO(B)FLUORANTHENE
93-95-4	2,4,5-TRICHLOROPHENOL	207-48-9	BENZO(K)FLUORANTHENE
91-58-7	2-CHLORONAPHTHALENE	50-32-8	BENZO(A)PYRENE
88-74-4	2-NITROANILINE	193-39-5	INDENO(1,2,3-CD)PYRENE
131-11-3	DIMETHYL PHTHALATE	53-70-3	DIBENZ(A,H)ANTHRACENE
208-94-8	ACENAPHTHYLENE	191-24-2	BENZO(G,H,I)PERYLENE
99-09-2	3-NITROANILINE		

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM 1

Laboratory Name: THA/ERS inc.
Case No. OEPA A5035

Sample Number
162928

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One) GPC Cleanup Yes No
Date Extracted/Prepared: 11-21-86 Separatory Funnel Extraction Yes
Date Analyzed: 2-25-87 Continuous Liquid-Liquid Extraction Yes
Conc/Dil Factor: 1
Percent Moisture (decanted): 54

CAS Number	ug/l or ug/kg (Circle One)
319-84-6	Align-BMC
319-85-7	Beta-BMC
319-86-8	Gamma-BMC
88-89-9	Gamma-BMC (Lindane)
78-44-8	Heptachlor
309-00-2	Alazin
1024-57-3	Heptachlor Epoxide
959-98-8	Endosulfan I
60-37-1	Dieldrin
72-55-9	4,4'-DDE
72-30-8	Endrin
33213-45-9	Endosulfan II
72-54-8	4,4'-DDD
1031-07-8	Endosulfan Sulfate
50-28-3	4,4'-DDT
72-43-5	Methoxychlor
53494-70-5	Endrin Ketone
57-74-9	Chlordane
8001-35-2	Toxaphene
12874-11-2	Aroclor-1016
11104-28-2	Aroclor-1221
11141-16-5	Aroclor-1232
53469-21-9	Aroclor-1242
12672-29-6	Aroclor-1248
11097-89-1	Aroclor-1254
11096-82-5	Aroclor-1260

M.L.X

V₁ = Volume of extract injected (ul)
V₂ = Volume of water extracted (ml)
W₃ = Weight of sample extracted (g)
V₁ = Volume of total extract (ul)

V₂ _____ or W₃ 14g V₁ 1000ml V₁ 3.0ml
DRY WT.

OTTER CREEK RM2.1 MILLARD AVE.

Sample Number
162270

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: E.R.G., Inc. Case No: OEPA 4489
Lab Sample ID No: 162270 QC Report No: _____
Sample Matrix: SOIL/SED Contract No: 360336-95
Data Release Authorized By: Joseph A. Kintan Date Sample Received: 11/5/86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 12/2/86
Date Analyzed: 12/2/86
Conc/Dil Factor: 1 pH 6.58
Percent Moisture: (Not Decanted) 53

CAS Number	Compound	ug/l or ug/Kg (Circle One)	U
74-87-3	Chloromethane	2/	U
74-83-9	Bromomethane	2/	U
75-01-4	Vinyl Chloride	2/	U
75-00-3	Chloroethane	2/	U
75-09-2	Methylene Chloride	2/	B
67-64-1	Acetone	2/	B
75-15-0	Carbon Disulfide	//	U
75-35-4	1, 1-Dichloroethane	//	U
75-34-3	1, 1-Dichloroethane	//	U
156-60-5	Trans-1, 2-Dichloroethane	//	U
67-66-3	Chloroform	//	U
107-06-2	1, 2-Dichloroethane	//	U
78-93-3	2-Butanone	2/	U
71-55-6	1, 1, 1-Trichloroethane	//	U
56-23-5	Carbon Tetrachloride	//	U
108-05-4	Vinyl Acetate	2/	U
75-27-4	Bromodichloromethane	//	U

CAS Number	Compound	ug/l or ug/Kg (Circle One)	U
78-87-5	1, 2-Dichloropropane	//	U
10061-02-6	Trans-1, 3-Dichloropropane	//	U
79-01-8	Trichloroethane	//	U
124-48-1	Dibromochloromethane	//	U
79-00-5	1, 1, 2-Trichloroethane	//	U
71-43-2	Benzene	//	U
10061-01-5	cis-1, 3-Dichloropropane	//	U
110-75-8	2-Chloroethoxyethane	2/	U
75-25-2	Bromoform	//	U
108-10-1	4-Methyl-2-Pentanone	2/	U
591-78-6	2-Hexanone	2/	U
127-18-4	Tetrachloroethane	//	U
79-34-5	1, 1, 2, 2-Tetrachloroethane	//	U
108-88-3	Toluene	320	U
108-90-7	Chlorobenzene	//	U
100-41-4	Ethylbenzene	//	U
100-42-5	Styrene	//	U
	Total Xlenes	//	U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be exact.

Value 1: The result is a value greater than or equal to the detection limit report the value.
2: The compound was analyzed for but not detected. Report the detection limit for the sample with the flag. If based on necessary concentration/dilution action, this is not necessary. The instrument detection limit. The footnote should read "U" compound was analyzed for but not detected. The number is the maximum attainable detection limit for the sample.
3: Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 standard is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. If the limit of detection is 10 ug/l and a concentration of 12 ug/l is reported as 12.

C: This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. S: The component pesticides 2:10 ug/l or more than 10 ug/l should be identified by GC/MS.
9: This flag is used when the analyst is bound to the data as well as a sample. It indicates possible organic data contamination and warns the data user to take appropriate action.

NR: No value required.

LABORATORY NAME: THA/ERS
CASE NO: 4489

SAMPLE NUMBER:
162270

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMI-VOLATILE COMPOUNDS

CONCENTRATION: LOW GPC CLEANUP YES X NO
DATE EXTRACTED/PREPARED: 12/07/86 SEPARATORY FUNNEL YES X NO
DATE ANALYZED: 01/14/87 CONTINUOUS LIQUID-LIQUID EXTRACTION YES
CONC FACTOR: 1.007049
PERCENT MOISTURE: (DECANTED) 53

CAS NUMBER	Compound	UG/KG	CAS NUMBER	Compound	UG/KG
108-95-2	PHENOL	890	83-32-9	ACENAPHTHENE	700 U
111-44-4	BIS(2-CHLOROETHYL)ETHER	700 U	51-28-5	2,4-DINITROPHENOL	3400 U
95-57-8	2-CHLOROPHENOL	700 U	100-02-7	4-NITROPHENOL	3400 U
541-73-1	1,3-DICHLOROBENZENE	700 U	132-64-9	DIBENZOFURAN	700 U
104-64-7	1,4-DICHLOROBENZENE	700 U	121-14-2	2,4-DINITROTOLUENE	700 U
109-51-4	BENZYL ALCOHOL	700 U	444-20-2	2,4-DINITROTOLUENE	700 U
95-50-1	1,2-DICHLOROBENZENE	700 U	88-24-2	DIETHYL PHTHALATE	700 U
95-48-7	2-METHYLPHENOL	700 U	7085-72-3	4-CHLOROPHENYL-PHENYLETHER	700 U
39638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	700 U	84-73-7	FLUORENE	700 U
104-44-5	4-METHYLPHENOL	1700	100-10-4	4-NITROANILINE	3400 U
621-64-7	N-NITROSO-DI-N-PROPYLAMINE	700 U	534-52-1	4,4-DINITRO-2-METHYLPHENOL	3400 U
47-72-1	HEXACHLOROETHANE	700 U	84-38-4	N-NITROSODIPHENYLAMINE (1)	700 U
98-95-3	NITROBENZENE	700 U	101-85-3	4-BROMOPHENYL-PHENYLETHER	700 U
78-59-1	ISOPHORONE	700 U	118-74-1	HEXACHLOROBENZENE	700 U
88-75-5	2-NITROPHENOL	700 U	87-84-5	PENTACHLOROPHENOL	3400 U
105-67-9	2,4-DIMETHYLPHENOL	700 U	85-01-8	PHENANTHRENE	700 U
48-85-4	BENZOIC ACID	3400	120-12-7	ANTHRACENE	700 U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	700 U	84-74-2	DI-N-BUTYL PHTHALATE	700 U
128-83-2	2,4-DICHLOROPHENOL	700 U	204-44-0	FLUORANTHENE	540 J
120-82-1	1,2,4-TRICHLOROBENZENE	700 U	129-00-0	PYRENE	710
91-20-3	NAPHTHALENE	700 U	85-68-7	BUTYLBENZYL PHTHALATE	700 U
104-67-8	4-CHLOROANILINE	700 U	91-94-1	3,3'-DICHLOROBENZIDINE	1400 U
87-68-3	HEXACHLOROBUTADIENE	700 U	54-55-3	BENZO(A)ANTHRACENE	700 U
59-50-7	4-CHLORO-3-METHYLPHENOL	700 U	117-81-7	BIS(2-ETHYLHEXYL)PHTHALATE	410 J
91-57-4	2-METHYLNAPHTHALENE	700 U	218-81-9	CHRYSENE	420 J
77-47-4	HEXACHLOROCYCLOPENTADIENE	700 U	117-84-0	DI-N-OCTYL PHTHALATE	700 U
88-06-2	2,4,6-TRICHLOROPHENOL	700 U	205-99-2	BENZO(B)FLUORANTHENE	700 U
95-95-4	2,4,5-TRICHLOROPHENOL	3400	207-08-9	BENZO(K)FLUORANTHENE	700 U
91-58-7	2-CHLORONAPHTHALENE	700 U	50-32-8	BENZO(A)PYRENE	240 J
88-74-4	2-NITROANILINE	3400	193-39-5	INDENO(1,2,3-CD)PYRENE	700 U
131-11-3	DIETHYL PHTHALATE	700 U	53-76-3	DIBENZO(A,H)ANTHRACENE	700 U
208-94-8	ACENAPHTHYLENE	700 U	191-24-2	BENZO(G,H,I)PERYLENE	230 J
99-09-2	3-NITROANILINE	3400			

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

Laboratory Name: TM/ER.G. inc.
Case No. OEPA A4989

Sample Number
162270

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs.

Concentration: Low Medium (Circle One) GPC Cleanup Yes No
Date Extracted/Prepared: 11-7-86 Separatory Funnel Extraction Yes
Date Analyzed: 2-3-87 Continuous Liquid-Liquid Extraction Yes
Conc/Dil Factor: 1
Percent Moisture (decanted): 53

CAS Number	ug/l or ug/Kg (Circle One)	
319-84-6	17	U
319-85-7	17	U
319-86-8	17	U
58-89-9	17	U
76-44-8	17	U
309-00-2	17	U
1024-27-3	17	U
959-98-8	17	U
60-37-1	34	U
72-55-9	34	U
72-20-8	34	U
33213-65-3	34	U
72-54-8	34	U
1031-07-8	34	U
50-29-3	34	U
72-43-5	170	U
53494-70-5	34	U
57-74-9	170	U
8001-35-2	340	U
12674-11-2	170	U
11104-28-2	170	U
11141-16-5	170	U
53469-21-9	170	U
12672-29-6	170	U
11097-69-1	340	U
11096-82-5	340	U

Ml REX

34 U

V₁ = Volume of extract injected (ul)

V₂ = Volume of water extracted (ml)

W₂ = Weight of sample extracted (g)

V₁ = Volume of total extract (ul)

V₂ _____ or W₂ 14g V₁ 1000ml V₁ 3.0ml
DRY WT.

OTTER CREEK RM 4.0
WHEELING ST.
Organics Analysis Data Sheet
(Page 1)

Sample Number
162271

Laboratory Name: E.R.G., Inc. Case No: OEPA A4989
Lab Sample ID No: 162271 QC Report No: _____
Sample Matrix: SOL/SED. Contract No: 360336 - G1
Data Release Authorized By: _____ Date Sample Received: 11/5/86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11/8/86
Date Analyzed: 11/8/86
Conc/Dil Factor: 1 pH 6.5
Percent Moisture: (Not Decanted) 3/

CAS Number	ug/l or ug/Kg (Circle One)	
74-87-3	13	U
74-83-9	13	U
75-01-4	13	U
75-00-3	13	U
75-09-2	12	JB
67-64-1	8	J
75-15-0	6	U
75-35-4	6	U
75-34-3	6	U
156-60-5	6	U
67-66-3	6	U
107-06-2	6	U
78-93-3	13	U
71-55-6	6	U
56-23-5	6	U
108-05-4	13	U
75-27-4	6	U

CAS Number	ug/l or ug/Kg (Circle One)	
78-87-5	6	U
10081-02-6	6	U
79-01-6	6	U
124-48-1	6	U
79-00-5	6	U
71-43-2	6	U
10061-01-5	6	U
110-75-8	13	U
75-25-2	6	U
108-10-1	13	U
581-78-6	13	U
127-18-4	6	U
79-34-5	6	U
108-88-3	6	U
108-90-7	6	U
100-41-4	6	U
100-42-5	6	U
Total Xlenes	6	U

Data Reporting Qualifiers

For reporting results to EPA the following results qualifiers are used. Additional flags or factors explaining results are encouraged. However, the definition of each flag must be explicit.

- Value 1: The result is a value greater than or equal to the detection limit report the value.
- U: Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U flag. (U) based on necessary concentration, injection action. This is not necessarily the instrument detection limit. The footnote should read: U Compound was analyzed for but not detected. The number is the minimum extractable detection limit for the sample.
- J: Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10U). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.
- C: This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single compound pesticides > 10 ug/l in the final extract should be confirmed by GC/MS.
- B: This flag is used when the analyst signals in the plate as well as a sample. It indicates possible spillover plate contamination and warns the data user to take appropriate action.
- NR: No value required.

LABORATORY NAME: TMA/ERS
CASE NO: A4989

SAMPLE NUMBER:
142271

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMI-VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/07/84
DATE ANALYZED: 01/16/87
CONC FACTOR: 1.019368
PERCENT MOISTURE: (DECANTED) 31

GPC CLEANUP YES X NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER	UG/MS	CAS NUMBER	UG/MS
100-95-2	PHENOL	83-32-9	ACENAPHTHENE
111-44-4	BIS(2-CHLOROETHYL)ETHER	51-28-5	2,6-DINITROPHENOL
95-57-8	2-CHLOROPHENOL	100-92-7	4-NITROPHENOL
541-73-1	1,3-DICHLOROBENZENE	132-66-9	DIBENZOPURAN
106-46-7	1,4-DICHLOROBENZENE	121-16-2	2,4-DINITROTOLUENE
100-51-6	BENZYL ALCOHOL	664-20-2	2,6-DINITROTOLUENE
95-50-1	1,2-DICHLOROBENZENE	84-64-2	DIETHYLPHTHALATE
95-58-7	2-METHYLPHENOL	7005-72-3	4-CHLOROPHENYL-PHENYLETHER
29638-32-9	BIS(2-CHLOROISOPROPYL)ETHER	84-73-7	FLUORENE
106-46-6	4-METHYLPHENOL	100-10-6	4-NITROANILINE
621-66-7	N-NITROSO-DI-N-PROPYLAMINE	534-52-1	4,6-DINITRO-2-METHYLPHENOL
67-72-1	HEXACHLOROETHANE	86-30-6	N-NITROSDIPHENYLAMINE (1)
98-95-1	NITROBENZENE	101-55-3	4-BROMOPHENYL-PHENYLETHER
78-59-1	ISOPHORONE	118-74-1	HEXACHLOROBENZENE
88-73-5	2-NITROPHENOL	87-84-5	PENTACHLOROPHENOL
105-67-9	2,4-DIMETHYLPHENOL	83-01-8	PHENANTHRENE
65-85-0	BENZOIC ACID	120-12-7	ANTHRACENE
111-91-1	BIS(2-CHLOROETHOXY)METHANE	84-76-2	DI-N-BUTYLPHTHALATE
120-83-2	2,4-DICHLOROPHENOL	204-44-0	FLUORANTHENE
120-82-1	1,2,4-TRICHLOROBENZENE	129-00-0	PYRENE
91-20-3	NAPHTHALENE	65-48-7	BUTYLBENZYLPHTHALATE
104-67-8	4-CHLOROANILINE	91-94-1	3,3'-DICHLOROBENZIDINE
87-48-3	HEXACHLOROBUTADIENE	54-55-3	BENZO(A)ANTHRACENE
59-50-7	6-CHLORO-3-METHYLPHENOL	117-01-7	BIS(2-ETHYLHEXYL)PHTHALATE
91-57-0	2-METHYLNAPHTHALENE	218-01-9	CHRYSENE
11-67-5	HEXACHLOROCYCLOPENTADIENE	117-84-0	DI-N-OCTYL PHTHALATE
85-36-2	2,4,6-TRICHLOROPHENOL	205-99-2	BENZO(B)FLUORANTHENE
95-95-4	2,4,5-TRICHLOROPHENOL	207-08-9	BENZO(K)FLUORANTHENE
91-58-7	2-CHLORONAPHTHALENE	50-32-8	BENZO(A)PYRENE
88-74-6	2-NITROANILINE	193-39-5	INDENO(1,2,3-CD)PYRENE
131-11-7	DIMETHYL PHTHALATE	53-70-3	DIBENZ(A,H)ANTHRACENE
208-96-8	ACENAPHTHYLENE	191-24-2	BENZO(G,H,I)PERYLENE
99-09-2	3-NITROANILINE		

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM 1

Laboratory Name: TMA/ERS, Inc.
Case No. OE9A A4989

Sample Number
16271

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 11-7-84
Date Analyzed: 2-3-87
Conc/Dil Factor: 1
Percent Moisture (decanted) 31

GPC Cleanup Yes No
Separatory Funnel Extraction Yes
Continuous Liquid-Liquid Extraction Yes

CAS Number	ug/10ug/Kg (Circle One)	
319-84-6	Along-BHC	12 U
319-85-7	Beta-BHC	12 U
319-88-8	Delta-BHC	12 U
58-89-9	Gamma-BHC (Lindane)	12 U
78-44-8	Heptachlor	12 U
309-00-2	Aldrin	12 U
1024-57-3	Heptachlor Epoxide	12 U
959-98-8	Endosulfan I	12 U
60-57-1	Dieldrin	24 U
72-55-9	4,4'-DDE	24 U
72-20-8	Endrin	24 U
33213-65-9	Endosulfan II	24 U
72-54-8	4,4'-DDD	24 U
1031-07-8	Endosulfan Sulfate	24 U
50-29-3	4,4'-DDT	24 U
72-43-5	Methoxychlor	120 U
53494-70-5	Endrin Ketone	24 U
57-74-9	Chlordane	120 U
8001-35-2	Toxaphene	240 U
12874-11-2	Aroclor-1016	120 U
11104-28-2	Aroclor-1221	120 U
11141-16-5	Aroclor-1232	120 U
53469-21-9	Aroclor-1242	120 U
12672-29-6	Aroclor-1248	120 U
11097-89-1	Aroclor-1254	240 U
11096-82-5	Aroclor-1260	240 U

MIREX 24 U

V_i = Volume of extract injected (ul)
V_s = Volume of water extracted (ml)
W_s = Weight of sample extracted (g)
V_t = Volume of total extract (ul)

$$v_s \frac{\text{---}}{\text{---}} \text{ or } w_s \frac{21g}{\text{DRY WT.}} \quad v_t \frac{1000 \text{ ul}}{\text{---}} \quad v_i \frac{3.0 \text{ ul}}{\text{---}}$$

OTTER CREEK RM 5.9
OAKDALE AVE
Organics Analysis Data Sheet
(Page 1)

Sample Number
162272

Laboratory Name: E.R.G., Inc. Case No: OEPA 44989
Lab Sample ID No: 162272 R QC Report No: _____
Sample Matrix: SOIL/SED. Contract No: 360336-85
Data Release Authorized By: _____ Date Sample Received: 11/5/86

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 12/2/86
Date Analyzed: 12/2/86
Conc/Dil Factor: 1 pH 7.69
Percent Moisture: (Not Decanted) 67

CAS Number	Compound	ug/l or (ug/Kg) (Circle One)
74-87-3	Chloromethane	30 U
74-83-9	Bromomethane	30 U
75-01-4	Vinyl Chloride	30 U
75-00-3	Chloroethane	30 U
75-09-2	Methylene Chloride	37 B
67-64-1	Acetone	47 U
75-15-0	Carbon Disulfide	15 U
75-35-4	1, 1-Dichloroethane	15 U
75-34-3	1, 1-Dichloroethane	15 U
156-60-5	Trans-1, 2-Dichloroethane	15 U
67-66-3	Chloroform	15 U
107-06-2	1, 2-Dichloroethane	15 U
78-93-3	2-Butanone	30 U
71-55-6	1, 1, 1-Trichloroethane	15 U
56-23-5	Carbon Tetrachloride	15 U
108-05-4	Vinyl Acetate	30 U
75-27-4	Bromodichloromethane	15 U

CAS Number	Compound	ug/l or (ug/Kg) (Circle One)
78-87-5	1, 2-Dichloropropane	15 U
10061-02-6	Trans-1, 3-Dichloropropene	15 U
79-01-6	Trichloroethene	15 U
124-48-1	Dibromochloromethane	15 U
79-00-5	1, 1, 2-Trichloroethane	15 U
71-43-2	Benzene	15 U
10061-01-5	cis-1, 3-Dichloropropene	15 U
110-75-8	2-Chloroethylvinyl ether	30 U
75-25-2	Bromoform	15 U
108-10-1	4-Methyl-2-Pentanone	30 U
591-78-6	2-Hexanone	30 U
127-18-4	Tetrachloroethane	15 U
79-34-5	1, 1, 2, 2-Tetrachloroethane	15 U
108-88-3	Toluene	15 U
108-90-7	Chlorobenzene	15 U
100-41-4	Ethylbenzene	15 U
100-42-5	Styrene	15 U
	Total Xylenes	15 U

Data Reporting Qualifiers

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

- Value: If the result is a value greater than or equal to the detection limit, report the value.
- U: Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the flag. (Used in necessary concentration/dilution action. This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J: Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicated the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J). If limit of detection is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.

- C: This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides 2:10 ug/l or more may be extracted should be confirmed by GC/MS.
- B: This flag is used when the analyte is found in the sample as well as a sample. It indicates possible pesticide dilution contamination and warns the data user to take appropriate action.

NR: No value required.

LABORATORY NAME: THA/ESB
CASE NO: 44989

(SAMPLE NUMBER)
(162272)
()
()

ORGANICS ANALYSIS DATA SHEET
(PAGE 2)

SEMI-VOLATILE COMPOUNDS

CONCENTRATION: LOW
DATE EXTRACTED/PREPARED: 11/07/86
DATE ANALYZED: 12/24/86
CONC FACTOR: 1.007049
PERCENT MOISTURE: (DECANTED) 67

GPC CLEANUP YES X NO
SEPARATORY FUNNEL EXTRACTION YES
CONTINUOUS LIQUID-LIQUID EXTRACTION YES

CAS NUMBER	Compound	UG/KG	CAS NUMBER	Compound	UG/KG
108-95-2	PHENOL	960. U	83-32-9	ACENAPHTHENE	630. J
111-64-4	BIS(2-CHLOROETHYL)ETHER	960. U	51-28-5	2,4-DINITROPHENOL	4700. U
95-57-8	2-CHLOROPHENOL	960. U	100-02-7	4-NITROPHENOL	4700. U
561-73-1	1,3-DICHLOROBENZENE	960. U	132-64-9	DIBENZOFURAN	390. J
104-66-7	1,4-DICHLOROBENZENE	960. U	121-14-2	2,4-DINITROTOLUENE	960. U
100-51-6	BENZYL ALCOHOL	960. U	406-20-2	2,4-DINITROTOLUENE	960. U
95-50-1	1,2-DICHLOROBENZENE	960. U	84-66-2	DIETHYLPHthalate	960. U
95-48-7	2-METHYLPHENOL	960. U	7005-72-3	4-CHLOROPHENYL-PHENYLETHER	960. U
39438-32-9	BIS(2-CHLOROISOPROPYL)ETHER	960. U	86-73-7	FLUORENE	870. J
106-44-5	4-METHYLPHENOL	960. U	100-10-6	4-NITROANILINE	4700. U
421-44-7	N-NITROSO-DI-N-PROPYLAMINE	960. U	514-52-1	4,6-DINITRO-2-METHYLPHENOL	4700. U
67-72-1	HEXACHLOROETHANE	960. U	86-30-6	N-NITROSODIPHENYLAMINE (1)	960. U
98-98-3	NITROBENZENE	960. U	101-85-3	4-BROMOPHENYL-PHENYLETHER	960. U
78-59-1	ISOPHORONE	960. U	118-74-1	HEXACHLOROENZENE	960. U
88-75-5	2-NITROPHENOL	960. U	87-84-5	PENTACHLOROENOL	4700. U
105-67-9	2,4-DIMETHYLPHENOL	960. U	85-91-8	PHENANTHRENE	8700. J
65-85-0	BENZOIC ACID	4700. U	120-12-7	ANTHRACENE	1900. U
111-91-1	BIS(2-CHLOROETHOXY)METHANE	960. U	84-74-2	DI-N-BUTYLPHthalate	960. U
120-83-2	2,4-DICHLOROPHENOL	960. U	294-44-0	FLUORANTHENE	12000. U
120-82-1	1,2,4-TRICHLOROBENZENE	960. U	129-00-0	PYRENE	7300. U
91-20-3	NAPHTHALENE	960. U	85-68-7	BUTYLBENZYLPHthalate	960. U
104-67-8	4-CHLOROANILINE	960. U	91-94-1	3,3'-DICHLOROENZIGINE	1900. U
87-68-3	HEXACHLOROBUTADIENE	960. U	54-65-3	BENZO(A)ANTHRACENE	1000. U
59-50-7	4-CHLORO-3-METHYLPHENOL	960. U	117-91-7	BIS(2-ETHYLHEXYL)PHthalate	550. J
91-57-6	2-NETHYLNAPHTHALENE	960. U	218-91-9	CHRYSENE	3400. U
77-47-4	HEXACHLOROCYCLOPENTADIENE	960. U	117-84-0	DI-N-OCTYL PHthalate	960. U
88-06-2	2,4,6-TRICHLOROPHENOL	960. U	205-99-2	BENZO(B)FLUORANTHENE	3900. U
95-95-4	2,4,5-TRICHLOROPHENOL	4700. U	207-98-9	BENZO(K)FLUORANTHENE	2700. U
91-58-7	2-CHLORONAPHTHALENE	960. U	50-32-8	BENZO(A)PYRENE	2900. U
88-74-4	2-NITROANILINE	4700. U	193-39-5	INDENO(1,2,3-CD)PYRENE	2200. U
131-51-3	DIMETHYL PHthalate	960. U	53-70-3	DIBENZO(A,H)ANTHRACENE	1000. U
208-96-8	ACENAPHTHYLENE	960. U	191-24-2	BENZO(G,H,I)PERYLENE	2400. U
99-09-2	3-NITROANILINE	4700. U			

(1) - CANNOT BE SEPARATED FROM DIPHENYLAMINE

FORM I

Laboratory Name TMA/ERG, inc.
Case No. OEPA 84989

Sample Number
162272

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One) GPC Cleanup Yes No
Date Extracted/Prepared: 1-7-86 Separatory Funnel Extraction Yes
Date Analyzed: 2-3-92 Continuous Liquid - Liquid Extraction Yes
Conc./Dil Factor: 1
Percent Moisture (decanted) 6.7

CAS Number		ug/100ug/Kg (Circle One)
319-84-6	Alpha-BHC	24 U
319-85-7	Beta-BHC	24 U
319-86-8	Delta-BHC	24 U
58-88-9	Gamma-BHC (Lindane)	24 U
78-44-8	Heptachlor	24 U
309-00-2	Alarin	24 U
1024-57-3	Heptachlor Epoxides	24 U
959-98-8	Endosulfan I	24 U
80-57-1	Dieldrin	48 U
72-58-9	4, 4'-DDE	48 U
72-20-8	Endrin	48 U
33213-85-9	Endosulfan II	48 U
72-54-8	4, 4'-DDD	48 U
1031-07-8	Endosulfan Sulfate	48 U
50-29-3	4, 4'-DDT	48 U
72-43-5	Methoxychlor	240 U
53494-70-5	Endrin Ketone	48 U
57-74-9	Chlorobane	240 U
8001-35-2	Toxaphene	480 U
12674-11-2	Aroclor-1016	240 U
11104-28-2	Aroclor-1221	240 U
11141-16-5	Aroclor-1232	240 U
53469-21-9	Aroclor-1242	240 U
12672-29-8	Aroclor-1248	240 U
11097-69-1	Aroclor-1254	480 U
11096-82-5	Aroclor-1260	480 U
MILREX		48 U

V_i = Volume of extract injected (ul)
 V_s = Volume of water extracted (ml)
 W_s = Weight of sample extracted (g)
 V_t = Volume of total extract (ul)

V_s _____ or W_s 9.9g V_i 1000ul V_t 3.0ul
DRY WT.

APPENDIX B

Package Sewage Treatment Plant Data

APPENDIX B
PACKAGE SEWAGE TREATMENT PLANT EFFLUENT DATA

NOTE: There are many package plants in the RAP Area, and most of them do not have NPDES Discharge Permits; and consequently, there are no data available on what they are discharging. The data in this table covers package plants in Lucas County, most of which are or were operated by the Lucas County Sanitary Engineer, and in all likelihood, are better operated and maintained than the "typical" package plant. Two of these plants (Corey Meadows and Lincoln Green) are no longer in use. Data for these plants is included here as examples of package plant discharge.

SOURCE: Lucas County Facilities Plan⁵

PACKAGE PLANT DATA
Maumee Basin Plants with NPDES Permits

	FLOW RATE Avg, gpd	TOTAL FLOW, MG				Avg BOD	TOTAL BOD, POUNDS				Avg SS	TOTAL SS, POUNDS				Avg P	TOTAL P (est), POUNDS				FILTERS?
		1979	1980	1981	1982		1979	1980	1981	1982		1979	1980	1981	1982		1979	1980	1981	1982	
Bentbrook	88,200	29.0	30.2	33.8	35.8	934	4,938	6,057	11,892	8,834	902	5,193	6,484	11,010	7,579	940	848	883	985	1,046	N
Corey Meadows	62,100	21.1	22.0	23.3	24.4	136	814	948	1,011	1,449	227	1,458	2,446	1,359	2,193	662	615	642	680	711	N
Lincoln Green	117,800	38.6	42.7	48.7	42.1	1,162	6,099	10,533	13,088	10,235	1,463	11,962	13,544	10,929	11,600	1,256	1,127	1,245	1,422	1,230	N
Oak Openings Ind	48,100	12.6	11.3	19.1	27.2	88	483	339	714	1,594	176	1,109	987	1,349	2,578	293	210	189	318	454	Y
Oak Terrace	61,200	18.8	15.2	33.2	22.2	291	820	526	5,195	4,535	358	1,226	823	7,097	4,226	373	314	254	553	371	Y

EXTENDED AERATION PACKAGE PLANT EFFLUENT DATA

Source: Lucas County Facilities Plan, Appendix F

PACKAGE PLANT NAME: BENTBROOK FARMS
 PACKAGE PLANT NUMBER: L-68
 NPDES PERMIT NUMBER: G 702 *AD

MONTH/YEAR	FLOW	pH	CL2	BOD	SS	DO	Coliform
January 1979	.079	6.7	.6	23.4	29.3	3.0	71.0
February	.080	6.7	.6	14.3	15.0	3.5	23.0
March	.089	6.7	.6	27.3	31.2	3.5	19.0
April	.101	6.9	.6	18.3	25.8	3.5	31.0
May	.113	6.9	.6	14.0	13.8	3.3	21.0
June	.057	6.9	.6	22.7	17.7	3.2	32.0
July	.066	7.1	.6	10.6	6.8	3.3	11.0
August	.083	6.7	.6	23.3	34.5	3.7	180.0
September	.063	6.7	.6	10.2	7.9	2.8	6.0
October	.058	6.7	.6	11.0	13.7	2.9	9.0
November	.069	6.8	.6	11.5	15.9	3.3	31.0
December	.096	7.0	.6	58.1	45.7	3.6	1,198.0
AVERAGES	79,500	6.8	.6	20.4	21.4	3.3	136.0
TOTALS	348		5.2	175.8	184.8	28.4	
January 1980	.080	7.0	.6	65.2	41.5	3.4	1,319.0
February	.070	6.9	.6	25.0	21.6	3.4	96.0
March	.091	6.9	.6	8.5	13.0	3.3	12.0
April							
May	.114	6.9	.6	6.2	8.2	3.3	3.0
June	.108	6.9	.6	54.7	54.3	2.7	337.0
July	.080	7.1	.6	6.3	7.4	3.2	3.0
August	.116	6.9	.6	7.1	13.3	2.1	6.0
September	.080	7.0	.6	AH	AH	3.6	AH
October	.058	6.9	.6	12.7	26.0	1.6	36.0
November	.062	7.0	.4	42.5	56.7	3.3	1,240.0
December	.052	6.7	.5	11.9	15.0	3.0	302.0
AVERAGES	82,818	6.9	.6	24.0	25.7	3.0	335.4
TOTALS	333		4.7	182.4	195.3	24.8	
January 1981	.075	6.7	AH	107.9	71.6	3.0	AH
February	.132	6.9	AH	84.0	92.0	3.8	AH
March	.076	6.7	AH	47.4	38.3	3.0	AH
April	.072	6.9	AH	43.1	40.2	2.4	AH
May	.090	7.0	.6	32.7	32.9	1.8	54.0
June	.098	6.9	.6	33.3	23.9	2.2	61.0
July	.099	6.8	.6	23.7	24.7	2.2	25.0
August	.079	6.9	.6	12.6	8.5	2.2	15.0
September	.118	6.8	.6	42.3	40.6	2.0	280.0
October	.097	6.8	.6	35.6	35.6	3.1	460.0
November	.088	6.8	.5	30.8	48.2	3.7	1,100.0
December	.085	6.9	AH	13.5	12.8	2.6	AH
AVERAGES	92,417	6.8	.6	42.2	39.1	2.7	285.0
TOTALS	405		3.6	423.3	391.9	26.7	
January 1982	.105	6.8	AH	23.6	18.2	3.0	AH
February	.081	7.0	AH	51.7	49.0	4.0	AH
March	.143	7.0	AH	58.9	50.6	3.1	AH
April	.102	7.0	AH	38.0	26.0	3.4	AH
May	.123	6.9	AH	43.8	43.5	3.3	AH
June	.178	6.8	.5	34.3	39.6	2.3	265.0
July	.118	6.7	.6	7.7	10.5	2.5	56.0
August	.061	6.9	.4	23.0	13.5	2.6	109.0
September	.069	6.8	.5	8.7	7.0	3.0	15.0
October	.055	6.9	.4	22.9	12.4	3.2	100.0
November	.062	6.9	AH	16.9	14.5	3.4	AH
December	.080	7.0	AH	25.3	19.6	3.3	AH
AVERAGES	98,083	6.9	.5	29.6	25.4	3.1	109.0
TOTALS	430		2.4	314.4	269.8	32.9	

PACKAGE PLANT NAME: COREY MEADOWS
 PACKAGE PLANT NUMBER: L-75
 NPDES PERMIT NUMBER: G 701 *AD

MONTH/YEAR	FLOW	pH	CL2	BOD	SS	DO	Coliform
January 1979	.059	6.7	.6	9.6	20.2	2.7	10.0
February	.047	6.7	.6	2.7	9.9	3.5	2.0
March	.045	6.7	.6	1.8	7.4	3.4	2.0
April	.072	6.8	.6	7.0	7.7	3.6	2.0
May	.068	7.0	.6	1.5	4.0	3.1	1.0
June	.059	6.8	.6	2.0	9.9	3.1	14.0
July	.075	7.0	.6	6.1	5.5	2.8	2.0
August	.051	6.7	.6	3.2	1.3	2.9	3.0
September	.040	6.8	.6	3.8	3.6	1.9	3.0
October	.043	6.7	.6	11.9	15.5	2.5	7.0
November	.051	6.9	.6	1.6	6.0	2.9	1.0
December	.082	7.2	.6	4.4	8.6	3.7	2.0
AVERAGES	57,667	6.8	.6	4.6	8.3	3.0	4.1
TOTALS	253		3.7	29.0	51.9	18.8	
January 1980	.071	6.9	.5	17.4	23.3	3.5	18.0
February	.044	6.9	.6	7.6	12.9	3.2	3.0
March	.070	6.8	.6	2.8	7.8	3.3	2.0
April							
May	.076	6.9	.6	1.0	1.8	3.2	1.0
June	.071	6.8	.6	.6	1.6	2.5	1.0
July	.056	6.7	.6	9.1	53.0	1.6	11.0
August	.082	6.8	.6	6.0	8.4	3.2	5.0
September	.058	6.8	.6	AH	AH	2.8	AH
October	.045	6.7	.6	2.5	8.8	3.3	2.0
November	.043	6.8	.5	1.9	4.9	3.2	156.0
December	.046	6.7	.4	2.8	10.9	2.8	1.0
AVERAGES	60,182	6.8	.6	5.2	13.3	3.0	20.0
TOTALS	242		3.4	28.5	73.7	17.8	
January 1981	.043	7.0	AH	2.9	3.4	3.2	AH
February	.058	6.7	AH	12.5	16.9	3.7	AH
March	.061	6.7	AH	3.6	3.1	2.2	AH
April	.055	6.5	AH	2.2	3.2	2.2	AH
May	.062	6.8	.6	1.0	2.0	2.1	1.0
June	.065	6.8	.6	1.0	1.9	1.9	1.0
July	.064	6.7	.6	1.7	3.3	2.1	1.0
August	.047	6.7	.6	1.9	3.1	2.2	3.0
September	.101	6.7	.6	8.4	9.5	1.7	9.0
October	.068	6.9	.5	10.7	17.7	2.5	13.0
November	.080	6.8	.6	9.8	9.8	3.2	2.0
December	.061	6.8	AH	6.8	10.1	2.6	AH
AVERAGES	63,750	6.8	.6	5.2	7.0	2.5	4.3
TOTALS	279		2.5	36.0	48.4	17.0	
January 1982	.075	6.8	AH	10.1	13.2	3.1	AH
February	.063	6.8	AH	6.3	12.2	3.4	AH
March	.108	7.0	AH	12.6	23.8	2.5	AH
April	.091	6.7	AH	3.7	4.5	3.2	AH
May	.061	6.8	AH	4.6	10.5	3.3	AH
June	.067	6.7	.5	3.4	3.5	2.3	5.0
July	.050	6.7	.5	3.5	3.0	2.2	5.0
August	.047	6.7	.4	2.4	4.6	2.0	11.0
September	.062	6.9	.4	3.1	4.4	2.8	10.0
October	.048	6.9	.4	1.9	1.7	3.0	7.0
November	.055	7.0	AH	32.2	44.6	3.5	AH
December	.073	7.1	AH	1.8	3.6	3.2	AH
AVERAGES	66,667	6.8	.4	7.1	10.8	2.9	7.6
TOTALS	292		1.5	51.6	78.1	20.8	

PACKAGE PLANT
PACKAGE PLANT
NPDES PERMIT

LINCOLN GREEN
L-49
H 704 *AD

MONTH/YEAR	FLOW	pH	CL2	BOD	SS	DO	Coliform
January 1979	.109	6.7	.6	13.5	9.7	3.1	22.0
February	.075	6.8	.6	38.2	44.8	3.4	225.0
March	.105	6.7	.6	7.5	9.3	3.5	14.0
April	.142	6.8	.6	6.4	4.3	3.3	4.0
May	.141	7.0	.6	5.1	8.3	3.2	6.0
June	.094	6.9	.6	3.7	8.6	3.1	8.0
July	.091	6.9	.6	2.9	2.7	3.1	3.0
August	.127	6.8	.6	3.6	5.0	3.5	2.0
September	.092	6.7	.6	3.4	2.9	2.8	3.0
October	.078	6.7	.6	16.5	193.2	2.6	33.0
November	.093	6.8	.6	93.4	128.8	3.5	4,021.0
December	.122	7.0	.6	33.0	28.0	3.7	303.0
AVERAGES	105,750	6.8	.6	18.9	37.1	3.2	387.0
TOTALS	464		6.9	217.1	425.7	37.1	
January 1980	.119	7.1	.5	64.1	72.6	3.5	103.0
February	.102	6.9	.6	29.4	18.0	3.4	124.0
March	.161	6.9	.6	42.3	51.2	3.5	135.0
April							
May	.143	7.1	.6	6.0	7.5	3.1	6.0
June	.134	6.9	.6	10.4	13.2	3.1	8.0
July	.094	6.8	.6	5.7	4.8	3.2	4.0
August	.106	6.9	.6	20.0	18.3	2.5	40.0
September	.102	7.2	.7	AH	AH	2.4	AH
October	.091	6.9	.6	7.7	9.2	2.1	11.0
November	.093	7.0	.6	89.2	165.5	2.9	779.0
December	.140	6.8	.6	21.2	20.3	2.5	42.0
AVERAGES	116,818	7.0	.6	29.6	38.1	2.9	125.2
TOTALS	469		7.0	317.2	407.9	34.2	
January 1981	.149	7.0	.6	126.7	117.6	3.3	299.0
February	.144	7.0	.5	106.5	71.5	3.9	533.0
March	.128	7.0	.6	35.7	22.0	3.0	58.0
April	.123	6.7	.6	20.7	13.2	3.1	46.0
May	.131	6.7	.6	24.4	28.9	2.8	56.0
June	.184	6.8	.6	15.8	10.7	2.2	15.0
July	.101	6.6	.6	22.8	24.0	2.8	47.0
August	.101	6.8	.6	6.8	8.6	2.4	4.0
September	.170	6.6	.6	14.7	16.2	2.3	10.0
October	.122	6.9	.5	4.1	5.1	3.3	12.0
November	.118	6.9	.6	3.5	2.4	2.5	2.0
December	.129	6.8	AH	5.0	2.7	2.8	AH
AVERAGES	133,333	6.8	.6	32.2	26.9	2.9	98.4
TOTALS	584		7.8	465.8	389.0	41.4	
January 1982	.098	6.9	AH	17.4	10.3	3.2	AH
February	.122	6.8	AH	15.7	19.2	2.6	AH
March	.161	6.8	AH	15.8	11.6	2.5	AH
April	.158	6.9	AH	47.2	65.7	3.6	AH
May	.109	6.8	AH	35.4	23.8	3.1	AH
June	.107	6.8	.5	46.8	46.4	2.9	199.0
July	.103	6.8	.5	10.6	6.1	2.4	29.0
August	.095	6.7	.4	5.0	5.8	1.9	16.0
September	.102	6.9	.5	10.5	9.6	3.0	55.0
October	.099	6.8	.4	22.4	30.5	3.8	166.0
November	.107	6.9	AH	21.8	31.2	3.4	AH
December	.123	7.0	AH	101.0	136.0	3.4	AH
AVERAGES	115,333	6.8	.5	29.1	33.0	3.0	93.0
TOTALS	506		2.7	364.3	412.9	37.3	

PACKAGE PLANT NAME: OAK OPENINGS INDUSTRIAL PARK
 PACKAGE PLANT NUMBER: L-52
 NPDES PERMIT NUMBER: 2PH00013*CD

MONTH/YEAR	FLOW	pH	CL2	BOD	SS	DO	Coliform
January 1979							
February	.013	6.8	.6	1.5	6.5	3.7	3.0
March	.032	6.8	.6	3.7	11.5	3.5	7.0
April	.037	6.9	.6	3.8	12.1	3.7	5.0
May	.030	7.0	.6	5.2	15.2	3.4	13.0
June	.024	6.8	.6	3.9	13.6	3.3	21.0
July	.027	6.9	.6	5.0	6.4	3.8	7.0
August	.034	6.8	.6	1.6	8.0	3.7	3.0
September	.038	6.8	.6	4.4	2.5	2.7	2.0
October	.034	6.8	.6	2.2	7.4	3.5	1.0
November	.065	6.7	.6	2.8	11.4	4.7	6.0
December	.046	7.2	.6	16.4	21.3	4.5	17.0
AVERAGES	34,545	6.9	.6	4.6	10.5	3.7	7.7
TOTALS	139		2.1	15.9	36.4	12.7	
January 1980	.052	7.0	.5	4.7	13.0	4.6	7.0
February	.029	6.9	.6	3.6	8.6	4.2	1.0
March	.029	6.9	.6	4.0	12.0	4.1	3.0
April							
May	.025	6.9	.6	3.0	11.1	4.1	2.0
June	.023	6.8	.5	3.1	5.9	4.5	2.0
July	.020	6.7	.6	2.1	5.4	4.0	1.0
August	.021	6.6	.6	2.0	4.9	3.4	3.0
September	.021	6.9	.6	AH	AH	2.4	AH
October	.042	6.8	.6	AH	AH	1.8	2.0
November	.038	7.0	.5	7.0	22.9	2.3	290.0
December	.041	6.7	.4	2.8	10.3	2.9	1.0
AVERAGES	31,000	6.8	.6	3.6	10.5	3.5	31.2
TOTALS	125		1.7	9.3	27.0	10.8	
January 1981	.037	6.7	AH	3.3	3.8	3.2	AH
February	.046	6.8	AH	6.5	13.4	3.8	AH
March	.051	6.5	AH	5.1	10.8	2.5	AH
April	.044	6.7	AH	4.2	5.3	4.1	AH
May	.052	6.7	.6	2.7	8.6	4.6	5.0
June	.060	6.7	.6	2.6	5.5	4.2	2.0
July	.063	6.7	.6	3.3	6.6	4.0	5.0
August	.048	6.8	.6	3.1	6.0	3.4	4.0
September	.051	6.8	.6	2.7	5.2	4.4	3.0
October	.056	6.8	.6	7.6	11.0	3.1	11.0
November	.062	6.8	.6	7.8	14.5	4.1	15.0
December	.056	6.9	AH	5.0	11.2	3.6	AH
AVERAGES	52,167	6.7	.6	4.5	8.5	3.8	6.4
TOTALS	229		2.1	25.4	48.0	21.2	
January 1982	.063	6.8	AH	15.3	21.3	3.9	AH
February	.067	7.0	AH	11.1	17.3	3.7	AH
March	.101	6.9	AH	8.3	12.3	4.1	AH
April	.104	6.9	AH	4.5	7.1	3.9	AH
May	.067	6.9	AH	5.6	8.9	3.7	AH
June	.078	6.9	.5	4.1	6.5	3.6	24.0
July	.064	6.8	.6	12.0	12.2	3.2	62.0
August	.063	6.7	.4	2.9	3.7	2.4	13.0
September	.082	6.8	.5	2.8	2.2	3.1	5.0
October	.062	6.8	.4	4.5	7.1	3.5	21.0
November	.075	6.9	AH	9.9	29.5	3.9	AH
December	.068	7.0	AH	3.3	8.2	3.5	AH
AVERAGES	74,500	6.9	.5	7.0	11.4	3.5	25.0
TOTALS	327		1.8	56.7	91.7	28.6	

PACKAGE PLANT NAME: OAK TERRACE SUBDIVISION
 PACKAGE PLANT BER: L-37
 NPDES PERMIT NUMBER: 2PH00014*CD

MONTH/YEAR	FLOW	pH	CL2	BOD	SS	DO	Coliform
January 1979							
February							
March							
April							
May							
June				1.3	4.3	6.3	3.0
July	.047	6.8	.6	2.2	1.3	3.5	1.0
August	.037	6.8	.6	2.1	5.1	3.6	3.0
September	.054	6.8	.6	22.1	24.5	2.7	27.0
October	.062	6.8	.6	2.7	8.3	4.0	1.0
November	.045	6.7	.6	2.4	5.2	4.4	3.0
December	.064	7.0	.6	3.8	6.0	4.7	3.0
AVERAGES	51,500	6.8	.6	5.2	7.8	4.2	5.9
TOTALS	113		1.8	18.0	26.9	14.3	
January 1980	.046	7.0	.5	2.0	4.5	4.5	1.0
February	.042	6.9	.6	3.9	6.4	4.2	2.0
March	.031	6.9	.6	2.6	4.6	4.2	1.0
April							
May	.045	6.8	.6	4.3	8.8	4.1	4.0
June	.050	7.0	.6	19.9	17.9	4.0	20.0
July	.040	6.6	.6	2.0	6.0	3.8	2.0
August	.046	6.6	.6	1.5	.7	3.1	1.0
September	.043	6.6	.6	AH	AH	2.2	AH
October	.033	6.8	.6	1.8	4.6	2.1	2.0
November	.033	6.9	.5	1.7	6.1	2.6	1.0
December	.049	6.7	.5	1.8	5.3	3.1	2.0
AVERAGES	41,636	6.8	.6	4.2	6.5	3.4	3.6
TOTALS	167		2.4	15.9	24.8	14.4	
January 1981	.059	6.7	.6	2.9	4.1	3.1	2.0
February	.089	6.8	.5	4.6	4.0	3.7	2.0
March	.201	6.7	.5	5.0	7.3	2.7	6.0
April	.156	6.6	.6	4.3	3.4	3.2	6.0
May	.159	6.6	.6	4.2	5.3	2.4	4.0
June	.106	6.6	.6	3.5	6.7	2.7	5.0
July	.067	6.7	.6	4.5	7.4	2.9	5.0
August	.051	6.9	.6	2.5	2.3	2.9	2.0
September	.042	6.7	.6	11.7	13.3	2.1	47.0
October	.051	6.9	.6	45.1	63.0	4.1	110.0
November	.054	6.7	.6	53.0	44.0	3.8	280.0
December	.055	6.8	AH	84.0	147.0	4.1	AH
AVERAGES	90,833	6.7	.6	18.8	25.7	3.1	42.6
TOTALS	398		5.3	184.9	252.6	30.9	
January 1982	.052	6.8	AH	76.0	49.0	4.2	AH
February	.058	7.0	AH	73.0	69.0	3.4	AH
March	.050	6.8	AH	23.7	18.6	2.9	AH
April	.056	6.8	AH	26.0	22.6	3.8	AH
May	.078	6.8	AH	4.4	6.1	3.4	AH
June	.077	6.8	.5	4.9	4.2	3.3	26.0
July	.059	6.7	.6	4.7	4.4	3.1	24.0
August	.066	6.7	.4	18.4	9.9	2.2	27.0
September	.070	6.8	.4	3.9	3.0	3.1	13.0
October	.049	6.8	.4	30.9	37.2	3.5	111.0
November	.054	6.8	AH	6.6	14.6	4.3	AH
December	.062	6.8	AH	20.8	34.7	4.7	AH
AVERAGES	60,917	6.8	.5	24.4	22.8	3.5	40.2
TOTALS	267		1.4	161.4	150.4	23.1	

APPENDIX C

NPDES Permits in the RAP Area

APPENDIX C
NPDES DISCHARGE PERMITS IN THE RAP AREA

SOURCE: NPDES permits supplied by Ohio EPA

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) BASIN, SUB-BASIN, WATERSHED #, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
PKG PLANT: n/a 2IG00006*ED OUTFALL: EXPIR. DATE: 10/24/88 STATUS: Expired	Ashland Oil Company 3147 Jessie St Toledo Terminal Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 BASIN: Maumee SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff, ship ballast	R.M.: 1.8	0.018	0.018	0.5
PKG PLANT: L-68 2PG00002*BD OUTFALL: 001 EXPIR. DATE: 09/13/92 STATUS: To be sewered 1988	Bentbrook Farms 1 Government Center Suite 800 5447 Sturbridge Road Lucas County, Sylvania OLD NAME(S):	WTRSHED NO: 004 BASIN: Maumee SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.060	0.120	3.7
PKG PLANT: n/a 2IW00010*AD OUTFALL: 001 EXPIR. DATE: 12/01/79 STATUS: Expired	Bowling Green WTP 304 N. Church St 17549 W. River Rd @ Hull-Prairie Rd Wood County, Plain Twp. OLD NAME(S):	WTRSHED NO: 045 BASIN: Maumee SUB-BASIN: *RAP? Yes *PRE? No STREAM: Hull-Prairie Road Ditch VERIFIED? Yes WASTE: WTP backwash	R.M.: 22.8	8.000	5.550	168.9
PKG PLANT: L-20 2IT00013*BD OUTFALL: EXPIR. DATE: 01/07/87 STATUS: Expired	CSX - Chessie - Presque Isle P.O. Box 45052 Presque Isle, nr Otter Cr & Bayshore Rds Lucas County, Oregon OLD NAME(S): C&O, Chessie	WTRSHED NO: 028 BASIN: Maumee SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River VERIFIED? Yes WASTE: Runoff, sewage	R.M.: 0.1	0.003	0.003	0.1
PKG PLANT: n/a 2IT00002*CD OUTFALL: EXPIR. DATE: 02/17/92 STATUS: Active	CSX - Chessie - Walbridge Terminal PO Box 45052 Union Street, Walbridge Wood County, Walbridge OLD NAME(S): C&O, Chessie	WTRSHED NO: 032 BASIN: Lake Erie SUB-BASIN: Cedar *RAP? Yes *PRE? No STREAM: Cedar Creek VERIFIED? Yes WASTE: Runoff	R.M.: 0.0	0.000	0.000	0.0
PKG PLANT: L-71 2PY00000*DD OUTFALL: 001 EXPIR. DATE: 03/18/93 STATUS: Active	Centennial Manor 3230 Centennial Road 3230 Centennial Road Lucas County, Sylvania Twp. OLD NAME(S):	WTRSHED NO: 003 BASIN: Maumee Bay SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek VERIFIED? Yes WASTE: Sewage	R.M.: 2.0	0.030	0.015	0.5
PKG PLANT: L-71 2PY00000*DD OUTFALL: 581 EXPIR. DATE: 03/18/93 STATUS: Active	Centennial Manor Lucas County, Sylvania Twp. OLD NAME(S):	WTRSHED NO: 003 BASIN: Maumee Bay SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek VERIFIED? Yes WASTE:	R.M.: 2.0	0.000	0.000	0.0
PKG PLANT: W-19 R 725 *AD OUTFALL: EXPIR. DATE: 06/30/77 STATUS: To be sewered in '88	Charter House Inn I-280 @ Hanley Rd. I-280 @ Hanley Rd. Wood County, Lake Twp. OLD NAME(S):	WTRSHED NO: 033 BASIN: Lake Erie SUB-BASIN: Crane *RAP? Yes *PRE? No STREAM: Crane Creek VERIFIED? Yes WASTE: Sewage	R.M.: 0.0	0.030	0.030	0.9

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) BASIN, SUB-BASIN, WATERSHED 2, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
PKG PLANT: n/a 2IT00015*AD OUTFALL: 001 EXPIR. DATE: 04/13/90 STATUS: Active	Conrail 415 Emerald Ave. 415 Emerald Ave. Lucas County, Toledo OLD NAME(S): Penn Central	WTRSHED NO: 013 SUB-BASIN: Maumee River *RAP? Yes *PRE? No STREAM: Maumee River via unnamed trib. VERIFIED? Yes WASTE: Runoff	R.M.: 0.0	0.000	0.000	0.0
PKG PLANT: n/a 2IT00007*CD OUTFALL: EXPIR. DATE: 06/23/91 STATUS: Active	Conrail - Stanley Yard 435 Emerald Ave Stanley Yard, 29460 E Broadway, Moline Wood County, Lake Twp. OLD NAME(S):	WTRSHED NO: 032 SUB-BASIN: Cedar STREAM: Cedar Creek VERIFIED? No WASTE:	BASIN: Lake Erie *RAP? Yes *PRE? No R.M.: 0.0	0.000	0.000	0.0
PKG PLANT: n/a 2IQ00012*BD OUTFALL: EXPIR. DATE: 02/24/92 STATUS: Active	Diversi Tech General PO Box 875 3729 Twinning St. Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ottawa River VERIFIED? Yes WASTE: Runoff	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 6.0	0.100	0.100	3.0
PKG PLANT: n/a 2IC00021*FD OUTFALL: EXPIR. DATE: 03/20/92 STATUS: Active	Doehler-Jarvis/Farley, Plant 2 1945 Smead Ave., POB 902 5400 N. Detroit Ave. Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 020 SUB-BASIN: STREAM: Shantee Creek VERIFIED? Yes WASTE: Cooling water	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 0.0	0.000	0.000	0.0
PKG PLANT: n/a 2IF00017*CD OUTFALL: EXPIR. DATE: 04/16/90 STATUS: Active	DuPont De Nemours, Formaldehyde Plant PO Box 6568, W. Toledo Stn 700 Matzinger Road Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ottawa River VERIFIED? Yes WASTE: Non-contact cooling water	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 4.8	1.700	1.700	51.7
PKG PLANT: n/a 2IF00016*DD OUTFALL: 001 EXPIR. DATE: 12/13/92 STATUS: Active	DuPont De Nemours, Paint Plant PO Box 953 1930 Tremainsville Rd., 43613 Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 020 SUB-BASIN: STREAM: Blodgett Ditch via storm sewers VERIFIED? Yes WASTE: Non-contact cooling water	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 0.0	0.490	0.490	14.9
PKG PLANT: n/a 2IF00016*DD OUTFALL: 002 EXPIR. DATE: 12/13/82 STATUS: Active	DuPont De Nemours, Paint Plant County, OLD NAME(S):	WTRSHED NO: 020 SUB-BASIN: STREAM: Blodgett Ditch via storm sewers VERIFIED? Yes WASTE:	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 0.0	0.000	0.000	0.0
PKG PLANT: n/a 2IC00060*AD OUTFALL: 001 EXPIR. DATE: 07/19/93 STATUS: Active	Feinblanking, Ltd. 1510 Albon Rd 1510 Albon Rd Lucas County, Holland OLD NAME(S):	WTRSHED NO: SUB-BASIN: Swan Creek *RAP? Yes *PRE? No STREAM: Wolf Creek VERIFIED? Yes WASTE: Machining, stamping wastes	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 0.0	0.009	0.009	0.3
PKG PLANT: n/a 2IN00013*CD OUTFALL: 001 EXPIR. DATE: 01/01/93 STATUS: Active	Fondessy / Envirosafe Services of Ohio 876 Otter Creek Rd. 876 Otter Creek Rd. Lucas County, Oregon OLD NAME(S): Fondessey	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek VERIFIED? Yes WASTE: Runoff, sewage	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 2.3	0.050	0.050	1.5
PKG PLANT: n/a 2IJ00039*FD OUTFALL: 001 EXPIR. DATE: 03/28/93 STATUS: Active	France Stone Co., Silica Plant PO Box 278, 8130 Brint Rd Centennial Road, Sylvania Lucas County, Sylvania OLD NAME(S):	WTRSHED NO: 003 SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek via Schreiber Ditch VERIFIED? Yes WASTE: Dewatering quarry	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 2.0	0.800	2.000	60.9
2IJ00039*FD OUTFALL: 002 EXPIR. DATE: 03/28/93 STATUS: Active	County, OLD NAME(S):	SUB-BASIN: Ottawa River *RAP? Yes *PRE? No STREAM: Ten Mile Creek via Schreiber Ditch VERIFIED? Yes WASTE: Dewatering quarry	R.M.: 2.0			

NP. PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) BASIN, SUB-BASIN, WATERSHED 3, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	DAILY FLOW MG/Year
PKG PLANT: n/a 2I100047*BD OUTFALL: 001 EXPIR. DATE: 03/31/87 STATUS: Expired	France Stone Co., Waterville 8130 Brint Road, PO Box 278 700 S. River Rd Lucas County, Waterville Twp. OLD NAME(S):	WTRSHED NO: 044 SUB-BASIN: Maumee River STREAM: Maumee River VERIFIED? Yes WASTE: Dewatering quarry	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 22.2	0.300	0.300	9.1
PKG PLANT: L-96 2PH00000*BD OUTFALL: EXPIR. DATE: 04/23/93 STATUS: To be sewerd 7/1/88	Fuller's Creekside Estates 1 Government Center Suite 800 6064 Villamar Lucas County, Washington Twp. OLD NAME(S):	WTRSHED NO: 021 SUB-BASIN: Portage STREAM: Shantee Creek VERIFIED? Yes WASTE: Sewage	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 0.0	0.100	0.270	8.2
PKG PLANT: n/a 2IH00093*BD OUTFALL: 001 EXPIR. DATE: 08/31/92 STATUS: Active	General Mills PO Box 923 1250 Laskey Rd. Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 023 SUB-BASIN: Silver Creek STREAM: Jamieson Ditch VERIFIED? Yes WASTE: Runoff, high BOD	BASIN: Maumee Bay *RAP? Yes *PRE? Yes R.M.: 0.0	0.000	0.000	0.0
PKG PLANT: n/a 2PA00012*CD OUTFALL: EXPIR. DATE: / / STATUS: Proposed Facility	Harbor View, Village of 127 Lakeview Dr 127 Lakeview Dr Lucas County, Harbor View OLD NAME(S):	WTRSHED NO: SUB-BASIN: STREAM: Lake Erie VERIFIED? Yes WASTE: Untreated sewage, septic tank effluent	BASIN: *RAP? Yes *PRE? No R.M.: 0.0	0.000	0.000	0.0
PKG PLANT: n/a 2PA00026*CD OUTFALL: EXPIR. DATE: 09/23/88 STATUS: Active	Haskins WWTP Village Hall, Church St. S.R. 64 and King Rd. Wood County, Middleton Twp. OLD NAME(S):	WTRSHED NO: 043 SUB-BASIN: STREAM: Liberty High Rd Ditch VERIFIED? Yes WASTE: Municipal Wastewater	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 21.6	0.100	0.060	1.8
PKG PLANT: n/a 2IC00026*CD OUTFALL: EXPIR. DATE: 08/01/82 STATUS: Expired	Hydra-Matic 3044 W. Grant Blvd. 1455 West Alexis Rd Lucas County, Toledo OLD NAME(S): GMC Chevrolet	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek VERIFIED? Yes WASTE: Runoff	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 0.0	0.000	0.100	3.0
PKG PLANT: n/a 2IC00022*CD OUTFALL: 001 EXPIR. DATE: 01/01/93 STATUS: Active	Jeep 1000 Jeep Pkwy. 940 North Cove Blvd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River STREAM: Ottawa River VERIFIED? Yes WASTE: Site runoff	BASIN: Maumee Bay *RAP? Yes *PRE? Yes R.M.: 7.6	0.030	0.030	0.9
PKG PLANT: n/a 2IC00022*CD OUTFALL: 002 EXPIR. DATE: 01/01/93 STATUS: Active	Jeep 1000 Jeep Pkwy. 940 North Cove Blvd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River STREAM: Ottawa River VERIFIED? Yes WASTE: Site runoff	BASIN: Maumee Bay *RAP? Yes *PRE? Yes R.M.: 7.6	0.030	0.030	0.9
PKG PLANT: n/a 2IC00022*CD OUTFALL: 003 EXPIR. DATE: 01/01/93 STATUS: Active	Jeep 1000 Jeep Pkwy. 940 North Cove Blvd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River STREAM: Ottawa River VERIFIED? Yes WASTE: Site runoff	BASIN: Maumee Bay *RAP? Yes *PRE? Yes R.M.: 7.6	0.030	0.030	0.9
PKG PLANT: n/a 2IC00022*CD OUTFALL: 004 EXPIR. DATE: 01/01/93 STATUS: Active	Jeep 1000 Jeep Pkwy. 940 North Cove Blvd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River STREAM: Ottawa River VERIFIED? Yes WASTE: Site runoff	BASIN: Maumee Bay *RAP? Yes *PRE? Yes R.M.: 7.6	0.030	0.030	0.9

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) BASIN, SUB-BASIN, WATERSHED 4, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
PKG PLANT: n/a 2IC00056*BD OUTFALL: 001 EXPIR. DATE: 01/01/93 STATUS: Active	Kern-Liebers USA 1510 Albon Rd 1510 Albon Rd Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 009 SUB-BASIN: Wolf Creek STREAM: Wolf Creek VERIFIED? Yes WASTE: Well water	BASIN: Lake Erie *RAP? Yes *PRE? No R.M.: 4.1	0.000	0.032	1.0
PKG PLANT: n/a 2IN00079*AD OUTFALL: 001 EXPIR. DATE: 05/19/78 STATUS: Expired	King Road Sanitary Landfill 111 S. McCord Rd 3535 King Rd. Lucas County, Sylvania Twp. OLD NAME(S):	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Ottawa River VERIFIED? Yes WASTE: Leachate	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 4.5	0.000	0.310	9.4
PKG PLANT: n/a 2IN00020*DD OUTFALL: EXPIR. DATE: 09/27/90 STATUS: Active	Libbey Owens Ford - Plants #4 and #8 811 Madison 1701 E Broadway Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek VERIFIED? Yes WASTE: Glass mfg process waste	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 6.6	0.100	0.100	3.0
PKG PLANT: n/a 2IN00030*ED OUTFALL: EXPIR. DATE: 06/30/82 STATUS: Expired	Libbey Owens Ford Float Glass Plant #6 811 Madison 140 Dixie Hwy Wood County, Rossford OLD NAME(S):	WTRSHED NO: 047 SUB-BASIN: Maumee River STREAM: Maumee River VERIFIED? Yes WASTE: Runoff, Cooling, Lagoon effluent	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 6.9	6.500	6.500	197.8
PKG PLANT: L-49 2PH00004*BD OUTFALL: 001 EXPIR. DATE: 09/13/92 STATUS: To be sewerd 1988	Lincoln Green Subdivision 1 Government Center Suite 800 6520 Burnham Green Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 004 SUB-BASIN: Swan Creek STREAM: Potter Ditch VERIFIED? Yes WASTE: Sewage	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 0.0	0.168	0.160	4.9
PKG PLANT: L-25 2IN00069*ED OUTFALL: 001 EXPIR. DATE: 08/11/93 STATUS: Active	Liquid Carbonic Corp. 135 S. LaSalle St 3742 Cedar Point Rd., 43616 Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek VERIFIED? Yes WASTE: Sewage	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 1.9	0.002	0.002	0.1
PKG PLANT: n/a 2IG00024*BD OUTFALL: 001 EXPIR. DATE: 10/10/92 STATUS: Active	Marathon Oil Company 4131 Seaman Road 3855 York Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: STREAM: Driftmeyer Ditch VERIFIED? Yes WASTE: Runoff water	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 0.0	0.085	0.085	2.6
PKG PLANT: n/a 2PD00015*AD OUTFALL: EXPIR. DATE: 06/30/77 STATUS: Expired	Maumee Combined Sewer Overflows 214 Illinois Ave 214 Illinois Ave Lucas County, Maumee OLD NAME(S):	WTRSHED NO: 044, 078 SUB-BASIN: STREAM: Maumee VERIFIED? Yes WASTE: Sewage, storm runoff	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 0.0	0.000	0.000	0.0
PKG PLANT: n/a 2PK00000*DD OUTFALL: EXPIR. DATE: 09/15/90 STATUS: Active	Maumee River WWT 1111 S McCord Rd 5858 North River Road, Waterville Lucas County, Monclova Twp. OLD NAME(S):	WTRSHED NO: 044 SUB-BASIN: Maumee River STREAM: Maumee River VERIFIED? Yes WASTE: Municipal Wastewater	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 18.2	15.000	9.010	274.2
PKG PLANT: n/a 2IN00032 OUTFALL: EXPIR. DATE: 11/30/79 STATUS: Revoked	Medusa Portland Cement Company 2301 Front St., Toledo Sylvania, OH Lucas County, Sylvania OLD NAME(S):	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Ten Mile Creek VERIFIED? No WASTE:	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 5.3	0.000	0.000	0.0

NP PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S)		RIVER MILE	CAPACITY mgd	FLOW NOW mgd	DAILY FLOW MG/Year
		BASIN, SUB-BASIN, WATERSHED 5, & RAP STATUS	VERIFIED?				
PKG PLANT: n/a 21N00072* OUTFALL: EXPIR. DATE: 04/13/83 STATUS: Expired, NPR?	Midland-Ross Surface Combustion Div. 2375 Dorr St 2375 Dorr St Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 005 SUB-BASIN: Ottawa River STREAM: Williams Ditch VERIFIED? Yes WASTE:	BASIN: Maumee *RAP? Yes *PRE? No	R.M.: 0.0	0.000	0.002	0.1
PKG PLANT: n/a 21T00005*BD OUTFALL: 001 EXPIR. DATE: 10/25/88 STATUS: Expired	Norfolk Southern RR 8 N. Jefferson St 2750 Front St Lucas County, Toledo OLD NAME(S): N&W RR	WTRSHED NO: 015 SUB-BASIN: Maumee River STREAM: Duck Creek VERIFIED? Yes WASTE: Runoff	BASIN: Maumee *RAP? Yes *PRE? No	R.M.: 0.0	0.242	0.242	7.4
PKG PLANT: L-62 2PP00003*CD OUTFALL: EXPIR. DATE: 06/17/89 STATUS: Active	Oak Openings - Fallen Timbers Plaza 682 Prospect Turnpike near Shaffer Road Lucas County, Swanton Twp. OLD NAME(S):	WTRSHED NO: 007 SUB-BASIN: STREAM: Murbach Ditch VERIFIED? Yes WASTE: Sewage	BASIN: Maumee *RAP? Yes *PRE? No	R.M.: 0.0	0.150	0.110	3.3
PKG PLANT: L-53 2PH00013*CD OUTFALL: EXPIR. DATE: 06/17/89 STATUS: Active draft permit	Oak Openings Industrial Park 1 Government Center Suite 800 1771 S. Eber Road @ Geiser Road Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Kujowski Ditch VERIFIED? Yes WASTE: Sewage	BASIN: Maumee *RAP? Yes *PRE? No	R.M.: 0.0	0.180	0.110	3.3
PKG PLANT: L-37 2PH00014*CD OUTFALL: EXPIR. DATE: 09/03/89 STATUS: Active	Oak Terrace 1111 S. McCord Rd. 329 Oak Terrace Blvd. (Angola @ Irwin) Lucas County, Spencer Twp. OLD NAME(S):	WTRSHED NO: 009 SUB-BASIN: Swan/Wolf Cr STREAM: Butler Ditch VERIFIED? Yes WASTE: Sewage	BASIN: Maumee *RAP? Yes *PRE? No	R.M.: 0.0	0.100	0.100	3.0
PKG PLANT: L-102 21O00003*AD OUTFALL: 001 EXPIR. DATE: 07/01/84 STATUS: Expired	Ohio National Guard Toledo Express Airport Toledo Express Airport Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 042 SUB-BASIN: Swan Creek STREAM: Zaleski Ditch VERIFIED? Yes WASTE: Sewage	BASIN: Maumee River *RAP? Yes *PRE? No	R.M.: 0.0	0.029	0.029	0.9
PKG PLANT: n/a 2PB00007*CD OUTFALL: EXPIR. DATE: 06/08/89 STATUS: Active	Oregon South Shore Park WTP 5350 Seaman Road, POB 7541 5760 Bayshore Rd. Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie VERIFIED? Yes WASTE: Municipal Wastewater	BASIN: Lake Erie *RAP? Yes *PRE? No	R.M.: 0.0	0.225	0.490	14.9
PKG PLANT: n/a 21W00220*BD OUTFALL: EXPIR. DATE: 04/23/93 STATUS: Active draft permit	Oregon WTP 5350 Seaman Rd 5350 Seaman Rd Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 029 SUB-BASIN: STREAM: Berger Ditch VERIFIED? Yes WASTE: WTP backwash water	BASIN: Maumee Bay *RAP? Yes *PRE? No	R.M.: 0.0	0.320	0.320	9.7
PKG PLANT: n/a 2PD00035*ED OUTFALL: EXPIR. DATE: 09/15/90 STATUS: Active	Oregon WTP 5330 Seaman Rd Dupont Rd, N of Cedar Point Rd Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: STREAM: Maumee Bay VERIFIED? Yes WASTE: Municipal Wastewater	BASIN: Maumee Bay *RAP? Yes *PRE? No	R.M.: 0.0	8.000	4.310	131.2
PKG PLANT: n/a 21N00075*BD OUTFALL: 001 EXPIR. DATE: 05/26/80 STATUS: Expired	Owens-Illinois, Libbey Plant 27 PO Box 919 940 Ash St Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 030 SUB-BASIN: Maumee River STREAM: Maumee River via Co. Dt. No.1139 VERIFIED? Yes WASTE: Cooling water, non-contact	BASIN: Maumee *RAP? Yes *PRE? No	R.M.: 0.0	0.000	0.150	4.6

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) BASIN, SUB-BASIN, WATERSHED 6, & RAP STATUS	RIVER MILE	CAPACITY mgd	FLOW mgd	ANNUAL FLOW MG/Year
PKG PLANT: n/a 2PD00002*CD OUTFALL: EXPIR. DATE: 06/28/87 STATUS: Expired	Perrysburg WMP 201 W Indiana 1 West Boundary St Wood County, Perrysburg OLD NAME(S):	WTRSHED NO: 079 SUB-BASIN: Maumee River STREAM: Maumee River VERIFIED? Yes WASTE: Municipal wastewater	R.M.: 14.5	2.750	3.000	91.3
PKG PLANT: n/a 21G00013*CD OUTFALL: EXPIR. DATE: 05/10/92 STATUS: Active	Petroleum Fuel & Terminal Co. 2844 Summit Ave. 2844 Summit Ave. Lucas County, Toledo OLD NAME(S): Shell, Apex	WTRSHED NO: 015 SUB-BASIN: Maumee River STREAM: Maumee River VERIFIED? Yes WASTE: Runoff	R.M.: 2.2	0.000	0.000	0.0
PKG PLANT: n/a 21F00000*CD OUTFALL: EXPIR. DATE: 03/26/90 STATUS: Active	Plaskon Electronic Materials 2829 Glendale Ave 2829 Glendale Ave Lucas County, Toledo OLD NAME(S): Allied Chemical	WTRSHED NO: 013 SUB-BASIN: Maumee River STREAM: Delaware Creek VERIFIED? Yes WASTE: Cooling water, non-contact	R.M.: 1.2	0.071	0.071	2.2
PKG PLANT: L-86 21S00008*ED OUTFALL: 002 EXPIR. DATE: 06/15/91 STATUS: Active	Reichert Stamping 8200 W. Central Ave. 8200 W. Central Ave. Lucas County, Sylvania Twp. OLD NAME(S): Toledo Steel Tube	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Ten Mile Creek via storm sewer VERIFIED? Yes WASTE: Sewage	R.M.: 5.1	0.008	0.008	0.2
PKG PLANT: n/a 21G00010*DD OUTFALL: 001 EXPIR. DATE: 07/13/93 STATUS: Active	Standard Oil - Hill Ave Terminal 4850 E 49th St. 2450 Hill Ave., 43607 Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Fleig Ditch VERIFIED? No WASTE: Runoff	R.M.: 11.1	0.003	0.003	0.1
PKG PLANT: n/a 21G00007*DD OUTFALL: EXPIR. DATE: 09/02/90 STATUS: Active	Standard Oil - Toledo Refinery PO Box 696 SE cor. Cedar Point Rd @ Bay Shore Lucas County, Oregon OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: STREAM: Maumee Bay VERIFIED? Yes WASTE: Refinery & sewage	R.M.: 0.4	25.000	25.000	760.9
PKG PLANT: n/a 21J00052*CD OUTFALL: 001 EXPIR. DATE: 06/02/92 STATUS: Active	Stoneco - Lime City Plant PO Box 29A, 221 Allen St. US 20, 8812 Fremont Pike Wood County, Perrysburg OLD NAME(S): Maumee Stone Co.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek via ditch VERIFIED? Yes WASTE: Quarry runoff	R.M.: 0.0	0.216	0.216	6.6
PKG PLANT: n/a 21J00048*CD OUTFALL: 001 EXPIR. DATE: 03/20/93 STATUS: Active	Stoneco - Maumee Plant PO Box 29A, 221 Allen St. 3845 Ford St Lucas County, Monclova Twp. OLD NAME(S): Maumee Stone Co.	WTRSHED NO: 041 SUB-BASIN: Swan Creek STREAM: Graham Ditch VERIFIED? Yes WASTE: Dewatering quarry	R.M.: 0.0	0.435	0.435	13.2
PKG PLANT: n/a 21G00009*CD OUTFALL: EXPIR. DATE: 07/05/92 STATUS: Active (draft)	Sun Petroleum - Marine Terminal PO Box 920 1900-2100 Front Street, Toledo Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River STREAM: Maumee River VERIFIED? Yes WASTE: Runoff	R.M.: 6.5	0.001	0.001	0.0
PKG PLANT: n/a 21G00003*FD OUTFALL: EXPIR. DATE: 09/24/89 STATUS: Active	Sun Petroleum - Toledo Refinery PO Box 920 1819 Woodville Rd Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek VERIFIED? Yes WASTE: Refinery, runoff, non-contact cooling	R.M.: 4.9	3.000	3.000	91.3

NPC PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) BASIN, SUB-BASIN, WATERSHED 7, & RAP STATUS		RIVER MILE	CAPACITY mgd	FLOW NOW mgd	ANNUAL FLOW MG/Year
PKG PLANT: n/a 21000001*BD OUTFALL: 001 EXPIR. DATE: 09/20/92 STATUS: Active	Teledyne Industries 1330 Laskey Road 1330 Laskey Road Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 023 SUB-BASIN: STREAM: Silver Creek VERIFIED? Yes WASTE: Runoff, non-contact cooling	BASIN: Maumee Bay *RAP? Yes *PRE? No	R.M.: 0.0	0.069	0.069	2.1
PKG PLANT: n/a 2PF00000*GD OUTFALL: EXPIR. DATE: 12/27/90 STATUS: Active	Toledo Bay View Park WTP 1 Govt Center, Ste 1500 3900 N Summit, 43611 Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River STREAM: Maumee River VERIFIED? Yes WASTE: Municipal Wastewater	BASIN: Maumee *RAP? Yes *PRE? No	R.M.: 1.4	102.000	91.150	2774.4
PKG PLANT: n/a 21D00011*CD OUTFALL: 001 EXPIR. DATE: 01/01/93 STATUS: Active	Toledo Coke 436 7th Ave. 2563 Front Street, Toledo Lucas County, Toledo OLD NAME(S): Koppers	WTRSHED NO: 015 SUB-BASIN: Maumee River STREAM: Maumee River VERIFIED? Yes WASTE: Runoff, Non-contact cooling water	BASIN: Maumee Bay *RAP? Yes *PRE? No	R.M.: 1.7	3.730	3.730	113.5
PKG PLANT: n/a 21W00260*BD OUTFALL: 002 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	BASIN: Maumee Bay *RAP? Yes *PRE? No	R.M.: 3.4	0.000	0.000	0.0
PKG PLANT: n/a 21W00260*BD OUTFALL: 003 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee Bay STREAM: Duck Creek VERIFIED? Yes WASTE: WTP Backwash	BASIN: Maumee Bay *RAP? Yes *PRE? No	R.M.: 3.4	0.000	0.000	0.0
PKG PLANT: n/a 21W00260*BD OUTFALL: 004 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	BASIN: Maumee Bay *RAP? Yes *PRE? No	R.M.: 3.4	0.000	0.000	0.0
PKG PLANT: n/a 21W00260*BD OUTFALL: 005 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee Bay STREAM: Duck Creek VERIFIED? Yes WASTE: WTP Backwash	BASIN: Maumee Bay *RAP? Yes *PRE? No	R.M.: 3.4	0.000	0.000	0.0
PKG PLANT: n/a 21W00260*BD OUTFALL: 006 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	BASIN: Maumee Bay *RAP? Yes *PRE? No	R.M.: 3.4	0.000	0.000	0.0
PKG PLANT: n/a 21W00260*BD OUTFALL: 007 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	BASIN: Maumee Bay *RAP? Yes *PRE? No	R.M.: 3.4	0.000	0.000	0.0
PKG PLANT: n/a 21W00260*BD OUTFALL: 008 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	BASIN: Maumee Bay *RAP? Yes *PRE? No	R.M.: 3.4	0.000	0.000	0.0

NPDES & PACKAGE PLANT NO. AND PERMIT STATUS	FACILITY NAME AND ADDRESS LOCATION, COUNTY, AND CITY	RECEIVING STREAM(S) BASIN, SUB-BASIN, WATERSHED 8, & RAP STATUS	RIVER MILE	CAPACITY	FLOW NOW mgd	ANNUAL FLOW MG/Year
PKG PLANT: n/a 21W00260*BD OUTFALL: 009 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay STREAM: Otter Creek VERIFIED? Yes WASTE: WTP Backwash	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 3.4	0.000	0.000	0.0
PKG PLANT: n/a 21W00260*CB OUTFALL: 001 EXPIR. DATE: 10/23/92 STATUS: Active	Toledo Collins Park WTP PO Box 786 York St @ Collins Park Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 014 SUB-BASIN: Maumee Bay STREAM: Otter Creek VERIFIED? Yes WASTE: Backwash supernatant	BASIN: Maumee Bay *RAP? Yes *PRE? No R.M.: 3.4	10.500	10.500	319.6
PKG PLANT: n/a 21B00002*CD OUTFALL: EXPIR. DATE: 01/09/92 STATUS: Active	Toledo Edison 300 Madison Ave 300 Madison Ave Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River STREAM: Maumee River VERIFIED? Yes WASTE:	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 4.0	0.000	0.000	0.0
PKG PLANT: n/a 21B00001*CD OUTFALL: EXPIR. DATE: 08/09/87 STATUS: Expired	Toledo Edison - ACME Station 300 Madison Ave 1401 Front St Lucas County, Toledo OLD NAME(S):	WTRSHED NO: 015 SUB-BASIN: Maumee River STREAM: Maumee River VERIFIED? Yes WASTE: Cooling wtr, Ash ponds	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 4.0	406.000	406.000	12357.6
PKG PLANT: L-100 21B00000*JD OUTFALL: 604 EXPIR. DATE: 09/15/90 STATUS: Active	Toledo Edison Bayshore Plant 300 Madison Ave. 4701 Bayshore Road (E. of Channel St.) Lucas County, Oregon Twp. OLD NAME(S):	WTRSHED NO: 028 SUB-BASIN: STREAM: Driftmeyer Ditch VERIFIED? Yes WASTE: Sewage & cooling water	BASIN: Lake Erie *RAP? Yes *PRE? No R.M.: 0.0	0.015	0.015	0.5
PKG PLANT: L-98 2PB00066*AD OUTFALL: EXPIR. DATE: 07/13/93 STATUS: Active	Toledo House of Correction 1 Government Center, Ste. 1710 7846 Schadel Road, 43571 Lucas County, Waterville Twp. OLD NAME(S):	WTRSHED NO: 040 SUB-BASIN: Swan Creek STREAM: Blue Creek VERIFIED? Yes WASTE: Sewage	BASIN: Maumee River *RAP? Yes *PRE? No R.M.: 0.0	0.040	0.040	1.2
PKG PLANT: W-39 R 724 *AD OUTFALL: EXPIR. DATE: / / STATUS: To be sewered	Union 76 Truck Stop and Restaurant 16000 9-Mi. Rd I-280 & Tpk. (@ Libbey Rd) Wood County, Lake Twp. OLD NAME(S):	WTRSHED NO: 033 SUB-BASIN: Crane STREAM: Crane Creek VERIFIED? Yes WASTE:	BASIN: Lake Erie *RAP? Yes *PRE? No R.M.: 0.0	0.030	0.030	0.9
PKG PLANT: n/a 21V00080*BD OUTFALL: EXPIR. DATE: 01/22/89 STATUS: Active	Waterville WTP 16 N 2nd St Waterworks Dr. Lucas County, Waterville OLD NAME(S):	WTRSHED NO: 043 SUB-BASIN: Maumee River STREAM: Maumee River VERIFIED? Yes WASTE: WTP Backwash Water	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 21.1	0.026	0.026	0.8
PKG PLANT: L-60 2PS00002*BD OUTFALL: 001 EXPIR. DATE: 05/12/85 STATUS: Expired	Woodside Terrace Trailer Park 5025 Brinhaven 7717 Angola Rd Lucas County, Springfield Twp. OLD NAME(S):	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek VERIFIED? Yes WASTE: Sewage	BASIN: Maumee *RAP? Yes *PRE? No R.M.: 0.0	0.080	0.080	2.4
*** Total ***				596.983	576.369	17543.2

APPENDIX D

Package Sewage Treatment Plants in the RAP Area

APPENDIX D
PACKAGE SEWAGE TREATMENT PLANTS IN THE RAP AREA

SOURCE: TMACOG Package plant database, compiled from OEPA NWDO, County Health Departments, & field investigations

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
** County Totals for Lucas					
* Township Totals for Jerusalem					
PLANT: L-1	Anchor Point Marina (AKA Condo Marine Properties) off Corduroy Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie, via boat lagoon	10000	10000	3.7
BUILT: 1964					
PLANT: L-2	Butch and Denny's Bait and Sporting Goods Corduroy Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie	1500	1500	0.5
BUILT:					
PLANT: L-3	Cooley Canal Yacht Club Bono Rd. - South Side, North of SR 2 Lucas County, Jerusalem Twp.	WTRSHED NO: 031 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie	4000	4000	1.5
BUILT: 1969					
PLANT: L-4	Country Inn 10711 Jerusalem Road Lucas County, Jerusalem Twp.	WTRSHED NO: 031 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7
BUILT: 1974					
PLANT: L-5	Eisenhower Jr. High School 331 N. Curtice Lucas County, Jerusalem Twp.	WTRSHED NO: 029 BASIN: Lake Erie SUB-BASIN: Wolf Creek STREAM: Wolf Creek	20000	20000	7.3
BUILT: 1961					
PLANT: L-6	Flying Bridge Restaurant Anchor Point, N. side Corduroy Rd., E. of Teachout Lucas County, Jerusalem Twp.	WTRSHED NO: 031 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie	6000	6000	2.2
BUILT:					
PLANT: L-7	Gulish Villa 7802 Jerusalem Road Lucas County, Jerusalem Twp.	WTRSHED NO: 031 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie via Anderson Ditch via SR	7000	7000	2.6
BUILT:					
PLANT: L-8	Jack's Cardinal Supermarket SE Cor. Howard Rd. & Rachel Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie	1000	1000	0.4
BUILT: 1967					
PLANT: L-9	Lakemont Landing N. end Coolie Rd., Reno Plat 4, lot 1581 Lucas County, Jerusalem Twp.	WTRSHED NO: 031 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie	6000	6000	1.1
BUILT: 1962					
PLANT: L-10	Our Lady of Mt. Carmel E. Side of Elliston Rd., N. of Veler Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 032 BASIN: Lake Erie SUB-BASIN: Cedar STREAM: Cedar Creek	4000	4000	1.5
BUILT: 1967 (expansion)					
PLANT: L-11	Professional Mechanical Service 406 N. Howard Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie	1500	1500	0.5
BUILT:					
PLANT: L-12	Wolf Creek Sportsman's Association 349 Teachout Rd. Lucas County, Jerusalem Twp.	WTRSHED NO: 031 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7
BUILT: 1965					
* Subsubtotal *			65000	65000	22.6

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
* Township Totals for Monclova					
PLANT: L-14	Chateau Estates 10430 Airport Hwy Lucas County, Monclova Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	36000	36000	13.1
BUILT: 1967					
PLANT: L-15	Highway Patrol Post 10391 Airport Hwy., E of Turnpike Lucas County, Monclova Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Swan Creek	1500	1500	0.5
BUILT: 1961					
PLANT: L-16	Monclova School (New) Monclova Road & Waterville-Monclova Rd Lucas County, Monclova Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Swan Creek	5000	5000	1.8
BUILT: 1973					
PLANT: L-17	Monclova School (Old) 4526 Lose Rd. Lucas County, Monclova Twp.	WTRSHED NO: 041 SUB-BASIN: Swan Creek STREAM: Swan Creek	8500	8500	3.1
BUILT: 1966					
* Subsubtotal *			51000	51000	18.6
* Township Totals for Oregon					
PLANT: L-113	Bay Village Condominiums N side Bayshore Rd 1000' W of Stadium Lucas County, Oregon Twp.	WTRSHED NO: SUB-BASIN: STREAM: Lake Erie	200000	200000	73.0
BUILT: 1988					
PLANT: L-19	Buckeye Pipeline 3211 York Lucas County, Oregon Twp.	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek	1500	1500	0.5
BUILT: 1962					
PLANT: L-20 T213*BD	Chessie System Presque Isle Dock, near Otter Creek & Bayshore Rds Lucas County, Oregon Twp.	WTRSHED NO: 028 SUB-BASIN: STREAM: Maumee Bay	2500	2500	0.9
BUILT: 1957					
PLANT: L-99	Clay School Complex 5633 Seaman Rd., @ NW cor. of Seaman & Stadium Rd Lucas County, Oregon Twp.	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	30000	30000	11.0
BUILT:					
PLANT: L-21	G.A.F. Society Banquet Hall 3624 Seaman Rd. Lucas County, Oregon Twp.	WTRSHED NO: 028 SUB-BASIN: STREAM: Amlosch Ditch	3000	3000	1.1
BUILT: 1973					
PLANT: L-22	Globe Industries, Inc. 645 N. Lallendorf St. Lucas County, Oregon Twp.	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	6000	6000	2.2
BUILT:					
PLANT: L-23	Lakefront Dock & Terminal Co. Otter Creek & Bayshore Rds Lucas County, Oregon Twp.	WTRSHED NO: 028 SUB-BASIN: STREAM: Otter Creek	3000	3000	1.1
BUILT: 1964					
PLANT: L-24	Lakeside Trailer Park 5404 Bayshore Lucas County, Oregon Twp.	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7
BUILT:					
PLANT: L-25 21N00069	Liquid Carbonic Corp. 3742 Cedar Point Rd. Lucas County, Oregon Twp.	WTRSHED NO: 028 SUB-BASIN: STREAM: Lake Erie	1500	1500	0.5
BUILT: 1966					

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
PLANT: L-26 BUILT: 1981	Lucas County Residential Center 133/157 Wynn Rd. (NW cor. Wynn & Seaman) Lucas County, Oregon Twp.	WTRSHED NO: 028 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie	2000	2000	0.7
PLANT: L-27 BUILT: 1973	National Wire of Ohio, Inc. 832 N. Lallendorf Rd. at York St. Lucas County, Oregon Twp.	WTRSHED NO: 028 BASIN: Lake Erie SUB-BASIN: STREAM: Amlosch Ditch	3500	3500	1.3
PLANT: L-28 BUILT:	Oregon Municipal Building 5330 Seaman Lucas County, Oregon Twp.	WTRSHED NO: 028 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie	5000	5000	1.8
PLANT: L-29 MI 49267 BUILT:	Shuer, Jay J., School 4955 Seaman Rd. Lucas County, Oregon Twp.	WTRSHED NO: 028 BASIN: Maumee Bay SUB-BASIN: STREAM: Johlin Ditch -> tile field	3000	3000	1.1
PLANT: L-30 BUILT: 1958, 1974	Standard Oil Asphalt Plant Cedar Point Rd. at Otter Creek Rd. Lucas County, Oregon Twp.	WTRSHED NO: 028 BASIN: Maumee Bay SUB-BASIN: STREAM: Otter Creek	21500	21500	7.9
PLANT: L-100 21B00000*ID BUILT:	Toledo Edison Bayshore Plant 4701 Bayshore Road (E. of Channel St.) Lucas County, Oregon Twp.	WTRSHED NO: 028 BASIN: Lake Erie SUB-BASIN: STREAM: Driftmeyer Ditch	15000	15000	5.5
PLANT: L-31 BUILT:	Vargo Carry Out 5781 Corduroy Rd. Lucas County, Oregon Twp.	WTRSHED NO: 028 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie	2500	2500	0.9
PLANT: L-101 BUILT:	Wynn Elementary School 5633 Bay Shore Rd Lucas County, Oregon Twp.	WTRSHED NO: 028 BASIN: Lake Erie SUB-BASIN: STREAM: Lake Erie	0	0	0.0
* Subsubtotal *			302000	302000	110.3
* Township Totals for Providence					
PLANT: L-33 BUILT: 1970	Peaceful Acres Trailer Park 13555 Waterville-Neapolis Rd. Lucas County, Providence Twp.	WTRSHED NO: 038 BASIN: Maumee River SUB-BASIN: Swan Creek STREAM: Blue Creek	12500	12500	4.6
* Subsubtotal *			12500	12500	4.6
* Township Totals for Richfield					
PLANT: L-35 BUILT:	Corbett Gentry (Private Residence) 3917 Richfield Center Rd. Lucas County, Richfield Twp.	WTRSHED NO: 001 BASIN: SUB-BASIN: STREAM:	1500	1500	0.5
PLANT: L-36 BUILT:	Richfield Center Market 3902 Washburn Lucas County, Richfield Twp.	WTRSHED NO: 001 BASIN: SUB-BASIN: STREAM:	1000	1000	0.4
* Subsubtotal *			2500	2500	0.9
* Township Totals for Spencer					
PLANT: L-37 2PH00014*CD BUILT: 1970	Oak Terrace 329 Oak Terrace Blvd. (off Angola at Irwin) Lucas County, Spencer Twp.	WTRSHED NO: 009 BASIN: Maumee River SUB-BASIN: Swan/Wolf Cr STREAM: Butler Ditch->Drennan Dt, Wolf Cr.	100000	100000	36.5

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
PLANT: L-38 BUILT: 1963	Spencer-Sharples School Unknown Lucas County, Spencer Twp.	WTRSHED NO: 001 BASIN: Maumee River SUB-BASIN: Swan/Wolf Cr STREAM: Butler Ditch->Drennan Dt->Wolf Cr.	15000	0	0.0
* Subsubtotal *			115000	100000	36.5
* Township Totals for Springfield					
PLANT: L-39 BUILT: 1960, 1974	Bancroft Trailer Park 6951 Bancroft, Toledo OH 43615 (bet. McCord & King Lucas County, Springfield Twp.	WTRSHED NO: 004 BASIN: Maumee River SUB-BASIN: Swan Creek STREAM: Haefner Ditch	6000	6000	2.2
PLANT: L-40 BUILT: 1969	Burroughs Corporation 7300 Airport Highway (W. of Holloway Rd) Lucas County, Springfield Twp.	WTRSHED NO: 009 BASIN: Maumee River SUB-BASIN: Swan Creek STREAM: Wolf Creek	4000	4000	1.5
PLANT: L-41 BUILT: 1967	Crissey Elementary School #1 Geiser Road (NW corner Crissey & Geiser Roads) Lucas County, Springfield Twp.	WTRSHED NO: 001 BASIN: Maumee River SUB-BASIN: Swan Creek STREAM: Butler Ditch->Drennan Dt->Wolf Cr.	6000	6000	1.6
PLANT: L-42 BUILT: 1974	Dorr St. Elementary School Dorr and King Lucas County, Springfield Twp.	WTRSHED NO: 004 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Zink Ditch	13000	13000	4.7
PLANT: L-43 BUILT: 1988	Elizabeth Scott Nursing Home 2720 Albon Rd. Lucas County, Springfield Twp.	WTRSHED NO: BASIN: SUB-BASIN: STREAM: Stone Ditch	15500	11000	4.0
PLANT: L-45 BUILT: 1984, 1958	Glengary Country Club SE cor Hill & Crissey Lucas County, Springfield Twp.	WTRSHED NO: 009 BASIN: Maumee River SUB-BASIN: Swan Creek STREAM: Drennan Dt. (effl sprayed->golf)	9000	9000	3.3
PLANT: L-46 BUILT: 1966, 1975	Hidden Lake 777 W. Bancroft Lucas County, Springfield Twp.	WTRSHED NO: 004 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Zink Ditch	7200	7200	2.6
PLANT: L-47 BUILT: 1968	Holland Amoco (Station #00648) Airport Highway (SR 2) at I-475, SW corner Lucas County, Springfield Twp.	WTRSHED NO: 009 BASIN: Maumee River SUB-BASIN: Swan Creek STREAM: Wolf Creek	2000	2000	0.7
PLANT: L-48 BUILT: 1962	Holland Shopping Center 6835 Angola Rd. @ SW cor. Clarion & Angola. Lucas County, Springfield Twp.	WTRSHED NO: 009 BASIN: Maumee River SUB-BASIN: Swan Creek STREAM: Drennan Ditch	5000	5000	1.8
PLANT: L-49 H 704 *AD BUILT: 1971 or before	Lincoln Green Subdivision 6520 Burnham Green Lucas County, Springfield Twp.	WTRSHED NO: 004 BASIN: Maumee River SUB-BASIN: Swan Creek STREAM: Potter Ditch -> Zink/Heldman Ditch	168000	160000	58.4
PLANT: L-50 BUILT: 1972	Monclova Care Center 9831 Garden Road, 2000 ft E. of Eber Rd. Lucas County, Springfield Twp.	WTRSHED NO: 041 BASIN: Maumee River SUB-BASIN: Swan Creek STREAM: Cunningham Ditch	8000	8000	2.9
PLANT: L-51 BUILT: 1969	Neville Funeral Home 7438 Airport Highway Lucas County, Springfield Twp.	WTRSHED NO: 009 BASIN: Maumee River SUB-BASIN: Swan Creek STREAM: Wolf Creek	8000	8000	2.9
PLANT: L-52 BUILT: 1970	Oak Grove Mobile Court 1839 McCord Rd, N. of NW cor. of intersection w/ D Lucas County, Springfield Twp.	WTRSHED NO: 004 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Haeffner Ditch	8500	8500	3.1

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
PLANT: L-53 2PH00013*CD BUILT: 1970	Oak Openings Industrial Park 1771 S. Eber Road @ Geiser Road Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Kujowski Ditch	180000	110000	40.2
PLANT: L-102 BUILT: 1957	Ohio National Guard Near Toledo Express Airport Lucas County, Springfield Twp.	WTRSHED NO: 042 SUB-BASIN: Swan Creek STREAM: Zaleski Ditch	28500	28500	10.4
PLANT: L-54 BUILT: 1970	Royal Vilage Mobile Home Park 7519 Dorr St. (betw. Dorr & Nebraska) Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Heldman/Zink Ditch	40000	40000	14.6
PLANT: L-56 BUILT:	Springfield Saloon 904 Clark St. at Angola Road Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Drennan Ditch	6000	6000	2.2
PLANT: L-58 BUILT: 1971	Stairs Apts. 750 S. McCord Road (1000 ft N. of Angola Rd) Lucas County, Springfield Twp.	WTRSHED NO: 011 SUB-BASIN: Swan Creek STREAM: Good Ditch	18000	18000	6.6
PLANT: L-57 BUILT: 1968	Sun Oil Company 6405 Airport Highway (at I-475) Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek	1500	1500	0.5
PLANT: L-44 BUILT: 1971	Twin Hills Apts. (form. 4S+2) 6653 Dorcas @ SW cor. of Dorcas & Hill Lucas County, Springfield Twp.	WTRSHED NO: 004 SUB-BASIN: Swan Creek STREAM: Potter Ditch -> Zink Ditch	2000	2000	0.7
PLANT: L-59 BUILT: 1972	Villa West 10005 Garden Road Lucas County, Springfield Twp.	WTRSHED NO: 041 SUB-BASIN: Swan Creek STREAM: Cunningham Ditch	15000	15000	5.5
PLANT: L-60 S702*BD BUILT: 1969	Woodside Terrace Trailer Park 7717 Angola Rd Lucas County, Springfield Twp.	WTRSHED NO: 009 SUB-BASIN: Swan Creek STREAM: Wolf Creek via tributary from north	80000	80000	29.2
* Subsubtotal *			631200	548700	199.9
* Township Totals for Swanton					
PLANT: L-61 BUILT: 1979	Arrowhead Trailer Park 5402 Jerome Road, W. side SR 295, S. of Turnpike Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan Creek STREAM: Wiregrass Ditch	35500	35500	13.0
PLANT: L-62 2PP00003*CD BUILT: 1961 or earlier	Oak Openings - Fallen Timbers Service Plaza Turnpike near Shaffer Road Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan/Wolf Cr STREAM: Murback Ditch->Prairie Ditch->AI Cr	150000	110000	40.2
PLANT: L-63 BUILT:	Ohio Gas Co. Airport Highway Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan Creek STREAM: Ai Creek	2000	2000	0.7
PLANT: L-64 BUILT: 1951	Swanton School Airport Highway E. of US 20A (Maumee-Western Road) Lucas County, Swanton Twp.	WTRSHED NO: 039 SUB-BASIN: Swan Creek STREAM: Gale Run	6000	6000	1.6

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
PLANT: L-65 BUILT: 1963	Valleywood Golf Club 13501 Airport Hwy. @ NW cor Scott & SR 2 Lucas County, Swanton Twp.	WTRSHED NO: 007 SUB-BASIN: Swan Creek STREAM: Ai Creek	12500	12500	4.6
* Subsubtotal *			206000	166000	60.1
* Township Totals for Sylvania					
PLANT: L-67 BUILT: 1969	Arbor Hills Jr. High (Sylvania Middle School) 5334 Whiteford Rd @ SE cor. Whiteford & McGregor Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Ternmile Creek via tributary	18000	18000	6.6
PLANT: L-68 G 702 *AD BUILT: 1972 or earlier	Bentbrook Farms 5447 Sturbridge Road Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Ternmile Creek	60000	120000	43.8
PLANT: L-69 BUILT: 1971, 1974	Briarfield Rest Home 5757 Whiteford Road (N of Alexis) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Ternmile Creek via storm sewer	15000	15000	5.5
PLANT: L-71 Y700*CD BUILT: 1980 (expansion)	Centennial Manor 3230 Centennial Road Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Ternmile Creek via storm sewer	30000	30000	11.0
PLANT: L-72 BUILT: 1959	Central Avenue Elementary School 7460 W. Central Ave. at NE cor. Centennial Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Ternmile Creek	12500	12500	4.6
PLANT: L-73 BUILT: 1963	Central Mobile Village Trailer Park 7924 W Central Ave. (E. of Centennial Rd) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Ternmile Creek	12500	12500	4.6
PLANT: L-76 BUILT: 1974	Courts of Sylvania Centennial Rd. at Little Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Ternmile Creek -> tile field	2000	2000	0.7
PLANT: L-77 BUILT:	Design for Living 7640 W. Bancroft St. Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Zink Ditch	1000	1000	0.4
PLANT: L-78 BUILT: 1971	Franklin Park Cinemas 5235 Monroe St., 0.5 mi. W of Talmadge Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 004 SUB-BASIN: Ottawa River STREAM: Tiff Ditch via storm sewer	12000	12000	4.4
PLANT: L-79 BUILT: 1971	Garden Court South Apartments 5522 Alexis Rd @ SW cor. of Alexis & Rudyard Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Ternmile Creek via storm sewer	3000	3000	1.1
PLANT: L-80 BUILT: 1969	General Telephone 3126 McCord Road at Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 202 SUB-BASIN: Swan Creek STREAM: Hill Ditch	1500	1500	0.5
PLANT: L-81 BUILT: 1973	Golden Garden Tavern & Restaurant 8256 W. Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Ternmile Creek via storm sewer	8000	8000	2.9
PLANT: L-83 BUILT: 1967	Home Cafe 5102 W. Alexis Rd (at Whiteford Rd.) Lucas County, Sylvania Twp.	WTRSHED NO: 003 SUB-BASIN: Ottawa River STREAM: Ternmile Creek via storm sewer	3500	3500	1.3

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
PLANT: L-85 BUILT: 1970	Oak Tree (Shopping Center) 4024 N. Holland-Sylvania Rd. Lucas County, Sylvania Twp.	WTRSHED NO: 003 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	8500	8500	3.1
PLANT: L-86 2IS00008*ED BUILT: 1964	Reichert Stamping 8200 W. Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 003 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	8000	8000	2.9
PLANT: L-87 21Q00002 BUILT: 1970	Robintech 3610 Centennial Road Lucas County, Sylvania Twp.	WTRSHED NO: 003 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	1500	1500	0.5
PLANT: L-88 BUILT: 1973	Second Honeymoon (Motel) 8613 W. Central Ave. Lucas County, Sylvania Twp.	WTRSHED NO: 003 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Tenmile Creek	7000	7000	2.6
PLANT: L-82 BUILT: 1966	Shed, The 5365 Monroe St (at Sadalia Road) Lucas County, Sylvania Twp.	WTRSHED NO: 003 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Tenmile Creek via Monroe St. storm	2500	2500	0.9
PLANT: L-90-B BUILT: 1969 (Phase I)	Swiss Aire Chalet Condominiums, Middle plant 4555 to 4615 Holland-Sylvania Rd., Toledo Lucas County, Sylvania Twp.	WTRSHED NO: 003 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	6000	6000	2.2
PLANT: L-90-A BUILT: 1968 (Phase III)	Swiss Aire Chalet Condominiums, North Plant 4555 to 4615 Holland-Sylvania Rd., Toledo Lucas County, Sylvania Twp.	WTRSHED NO: 003 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	12000	12000	4.4
PLANT: L-90-C BUILT: 1967 (Phase II)	Swiss Aire Chalet Condominiums, South Plant 4555 to 4615 Holland-Sylvania Rd., Toledo Lucas County, Sylvania Twp.	WTRSHED NO: 003 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	6000	6000	2.2
PLANT: L-92 BUILT: 1977 (filters)	Toledo Concrete Pipe Company 3756 Centennial Road, (S. of Sylvania Ave.) Lucas County, Sylvania Twp.	WTRSHED NO: 003 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	1500	1500	0.5
PLANT: L-70 BUILT: 1973, 1981	Ventura's Restaurant 7742 W. Bancroft, (west of Hesyler) Lucas County, Sylvania Twp.	WTRSHED NO: 004 BASIN: SUB-BASIN: STREAM: Haeffer Ditch via	7000	7000	2.6
PLANT: L-94 BUILT:	Wayside General Store 7702 W. Bancroft Lucas County, Sylvania Twp.	WTRSHED NO: 004 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Zink Ditch	1000	1000	0.4
PLANT: L-95 BUILT: 1966	Whiteford Elementary School 4708 Whiteford Rd Lucas County, Sylvania Twp.	WTRSHED NO: 003 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Tenmile Creek via storm sewer	10000	10000	3.7
* Subsubtotal *			250000	310000	113.2
* Township Totals for Toledo					
PLANT: L-111 BUILT: 1960s	Dial Corp. 6120 N. Detroit Ave Lucas County, Toledo Twp.	WTRSHED NO: 023 BASIN: Maumee SUB-BASIN: STREAM: Silver Creek	0	0	0.0
PLANT: L-109 BUILT: 1982	McDonald's SW cor Alexis & Hagman Lucas County, Toledo Twp.	WTRSHED NO: 023 BASIN: Maumee SUB-BASIN: STREAM: Silver Creek	7000	7000	2.6

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
PLANT: L-104 BUILT: 1960	Mill Mfg. Co. 4511 South St. Lucas County, Toledo Twp.	WTRSHED NO: 004 BASIN: Maumee River SUB-BASIN: Ottawa River STREAM: Ottawa River via storm sewer	1500	1500	0.5
PLANT: L-112 BUILT: 1970	Netterfield's Fish & Chips N side Monroe just E of Laskey Lucas County, Toledo Twp.	WTRSHED NO: 004 BASIN: Maumee SUB-BASIN: Ottawa River STREAM: Tifft Ditch?	6000	0	0.0
PLANT: L-107 BUILT: 1980	Pee-Wee Inn Hagman 0.25 mi. N of Alexis Lucas County, Toledo Twp.	WTRSHED NO: 023 BASIN: Maumee SUB-BASIN: STREAM: Silver Creek	6000	0	0.0
PLANT: L-110 BUILT: 1960s	Penney, J.C., Warehouse Benore Rd Lucas County, Toledo Twp.	WTRSHED NO: 023 BASIN: Maumee SUB-BASIN: STREAM: Silver Creek	0	0	0.0
PLANT: L-108 BUILT: 1981	Speedway Truck Stop NE cor Alexis & Hagman Lucas County, Toledo Twp.	WTRSHED NO: 023 BASIN: Maumee SUB-BASIN: STREAM: Silver Creek	1500	1500	0.5
PLANT: L-106 BUILT: 1975	Standard Oil NW cor Alexis & Hagman Lucas County, Toledo Twp.	WTRSHED NO: 023 BASIN: Maumee SUB-BASIN: STREAM: Silver Creek	1500	1500	0.5

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
PLANT: L-105 BUILT: 1969	State Line Builders Supply NW cor State Line & Ann Arbor RR Lucas County, Toledo Twp.	WTRSHED NO: 025 SUB-BASIN: STREAM: Halfway Creek	2500	2500	0.9
* Subsubtotal *			26000	14000	5.1
* Township Totals for Washington					
PLANT: L-96 2PH00000*BD BUILT: 1972 or earlier	Fuller's Creekside Estates 6064 Villamar Lucas County, Washington Twp.	WTRSHED NO: 021 SUB-BASIN: Portage STREAM: Halfway Creek	100000	270000	98.6
* Subsubtotal *			100000	270000	98.6
* Township Totals for Waterville					
PLANT: L-97 BUILT: 1975 (additions)	Sisters of Notre Dame (AKA Lial Convent) 5900 Davis Road, bet. Obee & Weckerly Rds. Lucas County, Waterville Twp.	WTRSHED NO: 039 SUB-BASIN: Swan Creek STREAM: Swan Creek via Lake Lial	17500	17500	6.4
PLANT: L-98 BUILT: 1988	Toledo House of Correction (aka Welfare Farm) 1 Government Center, Ste. 1710 Lucas County, Waterville Twp.	WTRSHED NO: 040 SUB-BASIN: Swan Creek STREAM: Blue Creek	40000	40000	14.6
* Subsubtotal *			57500	57500	21.0
** Subtotal **			1818700	1899200	691.5
** County Totals for Ottawa					
* Township Totals for Allen					
PLANT: O-2 BUILT: 1958	Allen Park Mobile Court Reservation Line Road Ottawa County, Allen Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Cedar Creek	5000	11700	4.3
PLANT: O-5 OH 0003425 BUILT: 1967	Guardian Industries NW cor Martin-Moline Rd. at SR 51 Ottawa County, Allen Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Little Crane Creek	2000	2750	1.0
PLANT: O-4 BUILT: 1972, 1983	Luther Home of Mercy Corner of Williston and Main St. Ottawa County, Allen Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek	32500	32500	11.9
* Subsubtotal *			39500	46950	17.1
* Township Totals for Benton					
PLANT: O-7 BUILT: 1975	Wayside Inn NE cor SR 579 at SR 2 (& Graytown Rd) Ottawa County, Benton Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek via tributary	3500	3500	1.3
* Subsubtotal *			3500	3500	1.3
** Subtotal **			43000	50450	18.4
					** County Totals

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
* Township Totals for Lake					
PLANT: W-94 BUILT: 1986	795 Fuel Stop (Total Oil & Arxon Motel) I-280 @ SR 795 3510 Moline-Martin Rd Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	12000	12000	4.4
PLANT: W-16 BUILT:	Ambassador Motor Lodge NE Corner of Rt. 280 and Hanley Rd. Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek	7500	7500	2.7
PLANT: W-17 BUILT:	Berman's Supper Club/Christmas Shop 5104 Walbridge Rd. Wood County, Lake Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar STREAM: Cedar Creek	12000	12000	4.4
PLANT: W-19 R 725 *AD BUILT:	Charter House Inn I-280 @ Hanley Rd. Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane STREAM: Crane Creek	30000	30000	11.0
PLANT: W-86 BUILT: 1957	Fairlane Motel Hanley Road & I-280 Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek	2500	2500	0.9
PLANT: W-22 BUILT:	Gastown Service Station and Restaurant I-280 @ Libbey Rd Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek	8000	8000	2.9
PLANT: W-23 BUILT: 1978	Great Lakes Diesel Co I-280 @ Libbey Rd., 900 ft E. of I-280 Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane STREAM: Crane Creek	1500	1500	0.5
PLANT: W-24 BUILT: 1958	Greenbrier Motel & Real Deal Fuel Stop I-280 @ Latcha Rd Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane STREAM: Crane Creek	4100	4100	1.5
PLANT: W-27 BUILT:	Lusher Trailer Court E. Broadway @ Walbridge Rd. Wood County, Lake Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek	2000	2000	0.7
PLANT: W-29 BUILT: 1973, 1984	McDonald's I-280 @ 3486 Libbey Rd Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek	20000	20000	7.3
PLANT: W-28 BUILT: 1967	Metcalf Airport Airport Rd (N of NW cor. SR 795 & I-280) Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Ayres Creek	1500	1500	0.5
PLANT: W-33 BUILT: 1982	Rudolph/Libbe Inc. 6494 Latcha Road Wood County, Lake Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar STREAM: Cedar Creek	1500	1500	0.5
PLANT: W-91 BUILT: 1960	Sohio I-280 @ SR 795 Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	1500	0	0.0
PLANT: W-35 BUILT:	Stony Ridge Inn 3491 Latcha Road @ I-280 Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	21500	21500	7.9

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
PLANT: W-36 BUILT: 1966	Total Oil Station SR 795 @ I-280, 3510 Martin-Moline Rd Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Ayres Creek	1500	1500	0.5
PLANT: W-38 BUILT: 1977, 1985 addns	Truckstops of America I-280 @ Libbey Road Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane STREAM: Crane Creek	40000	40000	14.6
PLANT: W-39 R 724 *AD BUILT:	Union 76 Truck Stop and Restaurant I-280 & Tpk. (@ Libbey Rd) Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane STREAM: Crane Creek	30000	30000	11.0
PLANT: W-40 BUILT: 1974	Wagoner Apartments 6817 Fremont Pike: US 20, SE of Tracy Rd Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek via storm sewer	5000	5000	1.8
PLANT: W-87-N BUILT: 1958	Wood-Lake Trailer Park NE cor. of Cummings Road crossing under Tpk Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	15000	15000	5.5
PLANT: W-87-S BUILT: 1965	Wood-Lake Trailer Park NE cor. of Cummings Rd crossing under Tpk Wood County, Lake Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Creek	9000	9000	3.3
* Subsubtotal *			226100	224600	82.0
* Township Totals for Middleton					
PLANT: W-47 BUILT:	Southview Estates Mobile Home Park 12865 Five Point Road Wood County, Middleton Twp.	WTRSHED NO: 045 SUB-BASIN: Maumee River STREAM: Maumee River	40000	40000	14.6
* Subsubtotal *			40000	40000	14.6
* Township Totals for Northwood					
PLANT: W-98 BUILT: 1957	East Lane Mobile Manor SE cor Florence & Shomberg Sts. Wood County, Northwood Twp.	WTRSHED NO: 013 SUB-BASIN: Maumee River STREAM: Maumee River	10000	10000	3.7
* Subsubtotal *			10000	10000	3.7
* Township Totals for Perrysburg					
PLANT: W-100 BUILT:	Abbey Aetna 11140 Avenue Rd Wood County, Perrysburg Twp.	WTRSHED NO: SUB-BASIN: Maumee River STREAM: Grassy Creek?	3000	3000	1.1
PLANT: W-54 BUILT:	Bayer Trailer Park US 20, E. of Wood County, Perrysburg Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek or Grassy Creek	12500	12500	4.6
PLANT: W-55-W BUILT:	Divine Word Preparatory Seminary 26581 West River Road Wood County, Perrysburg Twp.	WTRSHED NO: 044 SUB-BASIN: Maumee River STREAM: Maumee River	10000	10000	3.7
PLANT: W-55-E BUILT:	Divine Word Preparatory Seminary 26581 West River Road Wood County, Perrysburg Twp.	WTRSHED NO: 044 SUB-BASIN: Maumee River STREAM: Maumee River	5000	5000	1.8

PACKAGE PLANT & NPDES NO. AND YEAR INSTALLED	PACKAGE PLANT NAME AND LOCATION	RECEIVING STREAM(S) AND WATERSHED BASIN	CAPACITY gpd	FLOW NOW gpd	ANNUAL FLOW MG/Year
PLANT: W-56 BUILT:	Five Points Trailer Park 24370 Route 199 @ SE cor int Five Pts/Dunbrdg Rd Wood County, Perrysburg Twp.	WTRSHED NO: SUB-BASIN: STREAM:	7000	7000	2.6
PLANT: W-57 BUILT: 1974	Fort Meigs State Memorial Park Off SR 65 bet. Fort & parking lot Wood County, Perrysburg Twp.	WTRSHED NO: 079 SUB-BASIN: Maumee River STREAM: Maumee River	5000	5000	1.8
PLANT: W-58 H 202 *AD BUILT: 1975	Henry Packing Company 9244 Fremont Pike (US 20) Wood County, Perrysburg Twp.	WTRSHED NO: 046 SUB-BASIN: Cedar Creek STREAM: Dry Creek via unnamed tributary	4000	4000	1.5
PLANT: W-59 BUILT: 1948	Lime City School US 20 & Lime City Road Wood County, Perrysburg Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek via ditch	1840	0	0.0
PLANT: W-61 BUILT:	Perrysburg Estates MHP, SS #5 Lime City Rd, N of Reitz Rd. = 23720 Lime City Rd Wood County, Perrysburg Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Henry Ditch	25000	25000	9.1
PLANT: W-60 BUILT:	Perrysburg Township Police & Ambulance Building 26609 Lime City Road, N. of US 20 Wood County, Perrysburg Twp.	WTRSHED NO: 032 SUB-BASIN: Cedar Creek STREAM: Dry Creek via ditch	1500	1500	0.5
* Subsubtotal *			74840	73000	26.7
* Township Totals for Troy					
PLANT: W-97 BUILT: 1966	Leisure Village Mobile Home Park N side Fremont Pike (US 20) @ Lemoyne Rd Wood County, Troy Twp.	WTRSHED NO: 033 SUB-BASIN: Crane Creek STREAM: Crane Creek	4000	4000	1.5
PLANT: W-78 BUILT: 1974	R & L Truck & Trailer Service 3423 Genoa Rd (Rt 163) Wood County, Troy Twp.	WTRSHED NO: 033 SUB-BASIN: Crane STREAM: Crane Creek	1500	1500	0.5
* Subsubtotal *			5,500 mgd	5,500 mgd	2.0 MG
** Subtotal **			356,440 mgd	353,100 mgd	129.0 MG
*** Total ***			2,218,140 mgd	2,302,750 mgd	838.9 MG

APPENDIX E

Publicly-Owned Treatment Works in the RAP Area

APPENDIX E
PUBLICLY-OPERATED TREATMENT WORKS IN THE RAP AREA

SOURCE: TMACOG Arewide Water Quality Management Plan²¹

POTW NAME	COUNTY	OPERATED BY	CAPACITY, MGD	PRESENT TREATMENT FACILITIES
** TOTAL FOR COUNTY Lucas				
Bentbrook Farms Subdiv.	Lucas	Lucas County	0.1	0.1 Extended aeration
Fuller's Creek Subdiv.	Lucas	Lucas County	0.1	0.3 Extended aeration
Lincoln Green Subdiv.	Lucas	Lucas County	0.2	0.2 Extended aeration
Maumee River WWTP	Lucas	Lucas County	15.0	9.0 Contact Stab/step feed,aer dig., belt filt
Oak Openings Ind Park	Lucas	Lucas County	0.2	0.0 Extended aeration
Oak Terrace	Lucas	Lucas County	0.1	0.1 Extended aeration, filt, CL2
Oregon South Shore Park	Lucas	Oregon	0.2	0.5 Contact Stabilization
Oregon WWTP	Lucas	Oregon	8.0	4.3 Activated Sludge, phos.
Toledo Bay View WWTP	Lucas	Toledo	102.0	91.2 Act Sludge, anaer dig., phos., belt filt press
Whitehouse WWTP	Lucas	Whitehouse	0.3	0.3 Extended aeration
** Subtotal **			126.1	105.9
** TOTAL FOR COUNTY Wood				
Haskins WWTP	Wood		0.1	0.1 Extended aeration, filters, drying beds
Perrysburg WWTP	Wood		2.8	3.0 Act Sldg, pre-aer, phos, anaer digest, vac dry beds
** Subtotal **			2.9	3.1
*** Total ***			129.0	109.0

APPENDIX F

Publicly-Owned Treatment Works Effluent Data

AF DIX F
POTW 1986 EFFLUENT DATA

SOURCE: Ohio EPA NPDES effluent data

LUCAS COUNTY

POTW NAME	OEPA PERMIT NO	NPDES PERMIT NO	AVG FLOW MGD	EFFLUENT BOD mg/l	EFFLUENT TSS mg/l	EFFLUENT NH3 mg/l	EFFLUENT NO2 mg/l	EFFLUENT NO3 mg/l	EFFLUENT TOTAL P mg/l	EFFLUENT CBOD mg/l	SLUDGE DRY TONS	SLUDGE VOLUME GALLONS	SLUDGE % TOTAL SOLIDS
FULLER'S CREEKSIDE ESTATES 2PW00000*AD OH0053732													
January, 1986			.279	10.0	12.5								
February			.463	13.0	12.3								
March			.454	13.3	10.7								
April			.300	12.8	15.2								
May			.299	9.5	14.5								
June			.268	5.7	7.0								
July			.116	7.0	9.5								
August			.095	9.5	11.0								
September			.135	8.8	16.5								
October			.216	37.4	34.0								
November			.201	22.7	17.3								
December			.371	21.3	11.7								
Annual Average			.266	14.2	14.3								
Effluent Limits, 30-day Average				30.0	30.0								
HAUMEE RIVER WWTP 2PK00000*DD OH0034223													
January, 1986			7.653	8.3	15.4	.6	.1	13.0	.9	6.1	115.2	15.6	
February			12.264	9.7	19.6	.6	.1	10.5	.8	7.8	81.6	14.8	
March			13.749	16.3	25.1	2.5	.3	9.8	.9	8.4	121.5	16.9	
April			9.853	15.1	22.0	1.9	.5	9.0	.9	10.0	94.9	17.6	
May			7.178	12.2	11.6	.6	.1	11.2	.8	5.5	91.4	17.8	
June			9.450	6.1	12.5	.5	.0	9.3	.8	4.5	128.1	20.5	
July			6.893	5.6	12.9	.2	.0	12.5	.9	3.6	264.5	20.3	
August			6.657	5.5	8.4	.6	.1	13.1	.7	3.8	98.8	18.4	
September			7.152	7.5	11.7	.9	.1	9.5	.8	4.0	90.1	29.3	
October			10.268	6.5	14.9	.3	.0	9.6	.8	4.5	80.9	17.6	
November			7.478	7.8	13.8	.8	.0	11.7	.8	5.4	112.6	19.7	
December			9.557	10.5	14.7	2.6	.1	7.4	.9	6.2	94.1	15.5	
Annual Average			9.013	9.3	15.2	1.0	.1	10.6	.8	5.8	114.5	18.7	
Effluent Limits, 30-day Average				30.0	30.0				1.0				
OREGON DUPONT RD WWTP 2PD00035*ED OH0052914													
January, 1986			3.533	6.5	12.4	.4	.0	9.4	1.0	2.4	143.4	2.8	
February			5.710	8.0	17.8	.2	.0	7.6	1.0	2.8	43.6	3.0	
March			5.949	8.8	15.5	.2	.0	7.4	.9	3.4	3.1	1.9	
April			3.922	6.4	10.8	.3	.0	9.5	1.0	2.0	14.6	.5	
May			3.913	7.2	15.9	.2	.0	10.5	.9	2.1	34.3	3.3	
June													
July			3.448	4.4	5.4	.3	.0	11.0	.9	1.9	98.4	3.3	
August			3.104	3.9	7.9	.5	.1	6.7	1.0	1.4			
September			3.347	5.1	8.1	.3	.0	8.8	1.0	1.3	8.5	4.3	
October			5.219	5.8	10.2	.2	.0	9.3	1.0	1.7	16.6	4.8	
November			3.821	3.9	11.1	.2	.0	12.8	.9	1.7	57.1	3.8	
December			5.423	8.6	17.6	.2	.0	8.3	1.0	3.6	50.3	3.8	
Annual Average			4.308	6.2	12.1	.3	.0	9.2	.9	2.2	47.0	3.1	
Effluent Limits, 30-day Average				20.0	20.0				1.0				

POTW NAME	OEPA PERMIT NO	NPDES PERMIT NO	AVG FLOW MGD	EFFLUENT BOD mg/l	EFFLUENT TSS mg/l	EFFLUENT NH3 mg/l	EFFLUENT NO2 mg/l	EFFLUENT NO3 mg/l	EFFLUENT TOTAL P mg/l	EFFLUENT CBOD mg/l	SLUDGE DRY TONS	SLUDGE VOLUME GALLONS	SLUDGE % TOTAL SOLIDS
OREGON													
SOUTHSHORE 2PB00007*CD OH0052591													
January, 1986			.343	12.8	24.2	10.2	.3	.8	1.8				
February			.655	23.8	22.3	1.2	3.3	2.2	.1				
March			.705	30.9	32.1	2.5	.0	2.0	1.1				
April			.560	45.9	29.8	3.9	.1	1.8	1.6				
May			.525	39.5	48.5	4.0	.0	.9	.9				
June													
July			.382	41.1	27.9	5.1	.1	.6	1.3	23.6			
August			.296	13.1	11.1	6.2	.2	.5	1.6	8.8			
September			.306	47.8	22.3	1.2	.1	.8	8.8	7.3			
October			.585	43.1	26.8	4.9	.0	.4	.8	30.0			
November			.391	66.9	43.4	10.8	.0	.2	2.7	46.4			
December			.664	32.0	37.1	1.2	.0	2.5	1.9	24.4			
Annual Average			.492	36.1	29.6	4.7	.4	1.2	2.0	23.4			
Effluent Limits, 30-day Average				20.0	25.0								
TOLEDO													
BAY VIEW WTP 2PF00000*GD OH0027740													
January, 1986			67.744	36.4	35.5	19.5	.3	1.9	1.4	18.2	1891.1		6.8
February			114.861	18.8	37.6	9.3	.5	1.3	1.0	13.9	1217.8		6.4
March			126.458	17.7	25.2	7.7	.5	1.5	.8	14.8	1117.3		29.9
April			85.022	17.8	24.9	10.5	.3	1.9	.7	13.6	734.3		29.8
May			87.999	19.9	34.8	11.5	.2	2.5	1.0	13.9	517.3		29.4
June			110.340	9.5	39.3	7.9	.3	1.4	1.0	5.8	598.5		30.4
July			81.420	28.0	50.8	9.7	.2	1.5	1.7	8.6	554.8		31.0
August			73.554	16.6	35.9	11.0	.2	2.3	1.0	6.0	895.2		26.0
September			76.705	24.9	75.8	11.7	.1	1.4	1.4	10.4	439.1		27.0
October			102.152	12.1	54.7	9.4	.2	2.2	.8	5.3	521.9		31.1
November			74.819	15.3	53.8	17.5	.2	2.2	1.3	8.8	539.3		26.0
December			92.774	19.6	61.0	10.1	.3	2.2	1.5	11.9	553.5		24.8
Annual Average			91.154	19.7	44.1	11.3	.3	1.9	1.1	10.9	798.3		24.9
Effluent Limits, 30-day Average				40.0	60.0				1.0				
WHITEHOUSE *													
2PB00062*CD OH0053350													
January, 1986			.285	31.4	33.8								
February			.365	14.3	16.3								
March													
April													
May			.289	20.0	19.1	10.0	.0	.1	36.0	21.5			
June			.345	9.8	15.8	18.0	3.7	.5	1.6	17.3	.1		.7
July			.310	7.2	19.4	5.0	1.1	4.1	3.9	9.3	.1		.4
August			.300	9.5	13.3	*4*	*4*	*4*	*4*	20.8	.0		
September			.297	18.6	22.6	6.5	.9	.3	1.0	16.7	.0		.1
October			.377	18.3	33.3	.4	54.0	4.0	1.0	19.7	.0		.7
November			.303	21.0	33.3	.0	.1	6.9	.8	20.1	.1		.4
December			.365	13.0	17.3	1.5	.5	16.0	.6	15.1	.0		.6
Annual Average			.324	16.3	22.4	5.9	8.6	4.6	6.4	17.6	.0		.5
Effluent Limits, 30-day Average (Interim)				30.0	30.0								

POTW NA	OEPA PERMIT NO	NPDES PERMIT NO	AVG FLOW MGD	EFFLUENT BOD mg/l	EFFLUENT TSS mg/l	EFFL NH ₃ mg/l	EFFLUENT NO ₂ mg/l	EFFLUENT NO ₃ mg/l	EFFLUENT TOTAL P mg/l	EFFLUENT CBOD mg/l	SLUDGE DRY TONS	SLUDGE VOLUME GALLONS	SLU % TOTAL SOLIDS
LINCOLN GREEN	2PH00004*AD	OH0053520											
January, 1986			.106	3.3	5.5								
February			.176	16.3	29.5								
March			.262	13.0	5.7								
April			.148	4.6	5.8								
May			.159	9.5	4.5								
June			.172	15.0	13.3								
July			.107	5.3	4.0								
August			.133	4.3	3.0								
September			.161	7.8	16.0								
October			.284	20.0	13.4								
November			.108	64.7	83.0								
December			.160	83.7	60.7								
Annual Average			.165	20.6	20.4								
Effluent Limits, 30-day Average													
OAK OPENINGS	2PH00013*AD	OH0058483											
January, 1986													
February													
March													
April													
May			.078	21.0	14.5	8.4				20.2			
June			.141	10.3	13.7	.1				7.3			
July			.088	41.3	50.0	14.2				38.4			
August			.108	20.8	33.5	7.8				12.0			
September			.081	34.8	43.0	5.3				31.9			
October			.131	6.8	13.4	.4				5.9			
November			.150	14.0	20.7	11.6				11.4			
December			.133	30.7	31.0	28.1				22.1			
Annual Average			.114	22.4	27.5	9.5				18.7			
Effluent Limits, 30-day Average													
OAK TERRACE	2PH00014*AD	OH0058912											
January, 1986			.059	4.3	4.0	.1				3.3			
February			.069	5.5	6.8	.1				4.2			
March			.080	2.0	1.7	.2				1.4			
April			.084	3.6	5.0	.2				3.3			
May			.050	3.5	3.5	.1				3.2			
June			.097	2.0	2.7	.1				1.5			
July			.134	2.8	3.3	.2				2.4			
August			.139	2.3	1.5	.1				2.2			
September			.133	5.3	8.5	.3				4.6			
October			.158	3.0	1.6	.3				2.2			
November			.107	22.7	39.3	5.8				17.9			
December			.110	6.7	18.7	.4				6.2			
Annual Average			.102	5.3	8.0	.6				4.4			
Effluent Limits, 30-day Average													

POTW N.	OEPA PERMIT NO	NPDES PERMIT NO	AVG FLOW MGD	EFFLUENT BOD mg/l	EFFLUENT TSS mg/l	EFF. NH ₃ mg/l	EFFLUENT NO ₂ mg/l	EFFLUENT NO ₃ mg/l	EFFLUENT TOTAL P mg/l	EFFLUENT CBOD mg/l	SLUDGE DRY TONS	SLUDGE VOLUME GALLONS	SLU % TO SOLIDS
SYLVAN **	2PG00000*BD	OH0054089											
WOODS													
January, 1986			.189	46.0	33.0								
February			.164	6.5	764.0								
March			.154	28.7	18.3								
April			.096	67.0	66.0								
May													
June													
July													
August													
September													
October													
November													
December													
Annual Average			.151	37.0	220.3								
Effluent Limits, 30-day Average													
COREY **	2PG00001*BD	OH0053741											
MEADOWS													
January, 1986			.041	8.5	8.8								
February			.061	3.0	1.5								
March			.076	2.0	3.7								
April			.078	10.8	13.4								
May			.053	8.0	11.0								
June			.096	1.7	4.7								
July			.078	12.5	15.8								
August			.080	6.9	62.6								
September													
October													
November													
December													
Annual Average			.070	6.7	15.2								
Effluent Limits, 30-day Average													
BENTBROOK	2PG00002*AD	OH0053759											
FARMS													
January, 1986			.080	41.5	32.5								
February			.100	12.8	13.3								
March			.134	16.3	9.7								
April			.157	42.6	52.6								
May			.108	69.0	78.0								
June			.125	143.3	158.7								
July			.087	78.8	129.3								
August			.075	372.5	337.5								
September			.100	110.3	79.8								
October			.136	76.4	41.8								
November			.143	54.3	20.7								
December			.144	92.7	169.3								
Annual Average			.116	92.5	93.6								
Effluent Limits, 30-day Average													

* Plant is scheduled to be abandoned in 1988.
 ** Plant now out of service; this area has been tapped into the Lucas County sanitary sewer.

WOOD COUNTY

POTW NAME	OEPA PERMIT NO	NPDES PERMIT NO	AVG FLOW MGD	EFFLUENT BOD mg/l	EFFLUENT TSS mg/l	EFFLUENT NH3 mg/l	EFFLUENT NO2 mg/l	EFFLUENT NO3 mg/l	EFFLUENT TOTAL P mg/l	EFFLUENT CBOD mg/l	SLUDGE DRY TONS	SLUDGE VOLUME GALLONS	SLUDGE % TOTAL SOLIDS
HASKINS	2PA00026*CD	OH0021873											
January, 1986			.061	5.5	6.3	.4				4.0		.0	.7
February			.073	6.5	6.5	.1				4.0		.0	.1
March			.062	6.3	8.0	.6				6.5		2200.0	.8
April			.067	9.8	2.5	1.2				7.5		.0	.8
May			.052	8.4	5.8	1.0				3.4		7000.0	.9
June			.058	6.5	6.5	1.5				4.5		5000.0	.9
July			.056	7.7	7.0	.7				4.7		12500.0	.8
August			.054	7.3	4.0	.6				1.5		5000.0	.9
September			.061	8.0	2.5	2.4				3.5		3000.0	.8
October			.065	8.8	6.8	1.2				5.6		1500.0	.1
November			.056	10.3	4.8	1.3				8.5		2000.0	.8
December			.064	8.3	7.3	1.0				7.0		2000.0	.1
Annual Average			.061	7.8	5.7	1.0				5.1		3350.0	.6
Effluent Limits, 30-day Average				10.0	12.0								
LUCKEY ***	2PA00080*BD												
Effluent Limits, 30-day Average					65.0					25.0			
PERRYSBURG	2PD00002*CD	OH0021008											
January, 1986			2.423	9.5	43.5	11.8		*4*	.5		11.7		4.5
February			3.190	38.3	80.3	5.8		1.9	1.3		2.8		5.5
March			3.556	15.4	26.6	7.4		1.6	.6		10.5		5.5
April			3.186	17.0	45.0	8.7		.3	.9		13.7		2.9
May			2.598	35.0	64.1	12.2		.4	2.1		12.1		3.9
June			3.351	6.9	17.7	8.8		.4	1.4		18.4		4.0
July			2.856	23.7	46.4	13.2		.4	3.5		6.8		5.5
August			2.467	28.8	71.3	14.6		.4	3.4		7.8		4.2
September			2.484	28.3	49.7	15.0		.4	3.2		4.0		4.2
October			3.273	31.8	38.2	10.9		.4	1.0		16.8		3.3
November			2.896	36.8	65.3	15.5		.7	2.4		12.7		4.8
December			3.752	41.6	86.6	8.0		1.3	2.8		10.1		5.3
Annual Average			3.003	26.1	52.9	11.0		.8	1.9		10.6		4.5
Effluent Limits, 30-day Average				50.0	50.0				1.0				

*** Treatment plant completed and went into use in late 1987.

APPENDIX G

*Ohio EPA Biological Water Quality Report
Draft Monitoring Report*

APPENDIX G

LOWER MAUMEE BASIN BIOLOGICAL AND WATER QUALITY MONITORING REPORT

D R A F T

Ohio EPA, 1986

Maumee River Macroinvertebrate Data Summary

The macroinvertebrate communities at these sites [M.P. 25.1 to 20.0] were similar to those at Stations 54.9 and 52.3. ICI values ranged from 42 to 54 and diverse mayfly and caddisfly assemblages were again present. Water quality was considered good at Station 32.1 and excellent at Stations 25.1 and 20.9.

Station 15.0 was considered to be at the upper limit of influence of Lake Erie and was upstream from the Perrysburg WWP and any CSOs. Twenty-two and 15 taxa were collected from the artificial and natural substrates, respectively, including five mayfly taxa. The slack water caddisfly *Cynnellus fraternus* was collected in relatively high numbers from the artificial substrates. The ICI score was 24, in the fair range; but given the limiting habitat (pooled conditions) the benthic community was considered indicative of good water quality.

Station 13.6 S (south bank) was downstream from several CSOs and the Perrysburg WWP; however, the macroinvertebrate community did not indicate any significant impact. A total of four mayfly taxa were collected along with *Cynnellus fraternus*. The score was 20 and water quality was considered good.

The ICI score dropped to 14 at Station 13.3 N (north bank) but remained in the fair range. The decreased ICI value was due primarily to the collection of only one qualitative EPT taxa and the absence of mayflies on the artificial substrates. The lack of qualitative EPT taxa in the qualitative sample was attributed to very poor habitat conditions. The loss of mayflies in the quantitative sample may have indicated slight degradation from CSOs. Water quality was considered marginally good.

The ICI increased to 18 at Station 8.8 N and sampling produced three mayfly taxa. However, *Cynnellus fraternus* numbers were low and oligochaetes increase substantially. These factors seemed to indicate that Station 8.8 N was slightly more enriched than the stations upstream. Water quality was considered marginally good.

Macroinvertebrate sampling results revealed a depression in water quality between Stations 7.3 and 1.5. Degradation seemed especially apparent along the north bank of the Maumee River. The ICI values for the south bank stations dropped from 20 at Station 13.6 S to 12 at Station 7.3 S and 14 at Station 3.6 S. ICI values for the north bank sites decreased from 18 at Station 8.8 N to 6 at Station 1.5 N.

The discrepancy of ICI values between the north and south indicated that the majority of the degradation was from the numerous CSOs along the North bank with possibly some additional impact from Swan Creek. It is likely that Station 1.5 N was also affected by the Toledo WWP discharge. This site was immediately upstream from the plant and was in an area heavily influenced by seiches.

Other evidence of a greater problem existing along the north bank of the Maumee River was in the failure to collect any mayfly taxa at Station RM 7.2 N and 4.5 N in failure to collect both mayflies and caddisflies at Station RM 3.1 N and 1.5 N. Conversely, both mayflies and slack-water caddisflies were collected at Station RM 7.3 S and 3.6 S.

The large volume of water carried by the Maumee River apparently provided sufficient dilution to help minimize the impact the CSOs had on the river; however, the depression of the benthic community between river miles 7.3 and 1.5 indicated that the river was unable to fully assimilate the organic loading from one source before being subjected to more wastes farther downstream. Water quality was considered fair at Stations 7.3 S and 3.6 S and marginally fair at Stations 7.2 N, 4.7 N, 3.1 N and 1.5 N.

Water quality appeared to be somewhat improved at Station 9.7 N as a result of dilution of Maumee River water with water from Maumee Bay. Twenty-nine taxa were collected from the artificial substrates including one mayfly taxa and two caddisfly taxa. However, a predominance of oligochaetes indicated moderately enriched conditions. Qualitative sampling yielded nineteen taxa and the ICI score was 16. An impact from the Toledo WWP was not readily apparent. The plant discharge was probably dispersed prior to reaching this station. Water quality was considered marginally good.

Maumee River Fish Report

Non-point problems are believed to exist in the Maumee River as illustrated by the historic collection record. Historic records (Trautman 1981) show 87 species collected in the Lower Maumee River area. Of these 87 species the Ohio EPA (1986) did not collect 41, a near 50% loss of species. Many of the species missing are occupants of clear vegetated waters, not the kinds of waters associated with intensive agricultural activities. At no time during the survey could one have considered the Maumee River "clear".

[Sites at RM. 19.8 and 17.2] were located in and amongst a series of rapids. Community values were amongst the highest in the study area (IWB 9.0 & 8.6, IWB2 8.5 & 8.1 respectively) here. Higher current levels have kept the bottoms swept clean of silts thus mitigating non-point impacts, and allowing better community structure. In opposition to this, the monotypic habitat probably kept the diversity lower. It should be noted that these four sites were only sampled twice and both passes were during high-water conditions. The collection of darters and small riffle species was nearly impossible though boat maneuverability was much enhanced. RM 14.8 had fair amounts of current in the area and was similar to the upstream riffle-rapids area. RM 14.1 was similar to RM 14.8 though current was much reduced here. True lake effect conditions (near total lack of current) were realized at RM 13.7. Community values dropped nearly a full point (IWB 7.5 IWB 7.1). This is most likely a consequence of habitat conditions than any discharge from the Perrysburg WWTP (RM 14.5).

Community conditions remained near this level at RMs 9.4, 7.4, 7.3 and 4.7. Species composition did change at RM 4.7 downstream of Swan Creek. Many of the more sensitive species were absent at this site due to degraded environmental conditions via Swan Creek and also numerous upstream CSOs. IWB ranged from 7.8 to 7.1 while IWB2 ranged from 7.5 to 6.4. The next five downstream stations (RMs 3.6, 3.3, 1.5 & 0.6) also formed an identifiable unit. I group these sites because strong seiche activities move pollution plumes both up and downstream in this area. IWB's for these sites ranged between 7.2 and 6.4 and IWB2's ranged between 6.5 and 5.5, approximately a full point below those sites just upstream. It is believed that upstream movement of the Toledo WWTP plume and the numerous CSOs are the cause of the low community values (primarily the WWTP effect).

The effect of the WWTP is best illustrated by the Maumee Bay sites. Sites 0.1 (Bayshore intake channel) and 0.0 (SE shore Grass Island disposal area) displayed the lowest community values in the Bay Areas. These sites are closest to the Toledo WWTP discharge and showed the best community values in the Bay area. When plotted by distance from the WWTP the data show what appears to be a classic DO sag associated impact (RM 0.1). Sites upstream of the WWTP also appear to be affected by the discharge, but not as strongly, and some of this effect is undoubtedly due to accumulating CSO problems.

D.E.L. & T. anomaly data were more confusing. Those sites with the fewest individuals frequently had the lowest values for anomalies, though not always. The strongest statement that can be made is that there is a significant number of anomalies associated with the Bayshore discharge. In light of the use of chlorine at such facilities this type of situation is not surprising.

Lower Maumee River - 1986 Data Summary

1. Background water quality at Grand Rapids dam pool (RM 32.6) was good with D.O. of 5.8 - 10.3 mg/l, low NH_3 (<0.16 mg/l) and NO_2 (<0.11 mg/l), phosphorus (<0.7 mg/l), phenolics (< 20 ug/l), cyanide (<0.005 mg/l), and cadmium, chromium and nickel at or below detection. Three violations of WQS were measured for copper (15, 20, 35 ug/l) along with a slight increase in lead (up to 10 ug/2) and zinc (up to 80 ug/l). NO_3 ranged from 0.35 - 5.0 mg/l and TSS was as high as 297 mg/l but usually averaged 50 mg/l or less.
2. At Waterville (RM 20.1) D.O. increased to 8.1 - 13.3 mg/l (rapids), NO_2 (0.02 - 0.20 mg/l) and NH_3 (< 0.09 mg/l), were similar to upstream. Phosphorus of 0.2 - 0.5 mg/l was a little less but TSS stayed high at 55 - 141 mg/l. Cadmium, Chromium, Nickel, Lead, and Zinc stayed the same or declined. Only one WQS violation for Copper (15 ug/l) was detected.
3. Between Waterville and Toledo (RM 17.2) D.O. continued at good levels (6.5 - 11.4 mg/l). NH_3 , NO_2 , NO_3 , Phosphorus, TSS Cd, Cr, Pb, Ni, and Zn were similar to low background. Still had 3 violations of WQS for Copper (15, 15, 30 ug/l).
4. On the south side of Ewing Is. (RM 13.6), downstream of the Perrysburg WWTP and CSOs, D.O. content stayed between 6.2 and 11.1 mg/l. NH_3 generally was low (< 0.16 mg/l) and NO_2 (0.02 - 0.17 mg/l) and NO_3 (1-4 mg/l) were similar to upstream. Phosphorus (0.1 - 1.1 mg/l) slightly increased and TSS was elevated (22 - 538 mg/l) particularly in July and late September to October. Cd, Cr and Ni were at or below detection while Pb of 14 ug/l, Zn of 90 ug/l and two violations of WQS for Cu (18, 30 ug/l) were collected.
5. The transect at RM 9.4, Eagle Pt. Colony to upstream of Walbridge Marine, had a good range of dissolved oxygen content (6.1 - 10.9 mg/l) and NO_3 was transported in amounts similar to upstream (up to 4.7 mg/l). NO_2 up to 0.18 mg/l also was same as upstream. NH_3 (max. of 0.12 mg/l) generally was as low as upstream. There was typically a greater amount of TSS (22 - 538 mg/l) in bottom samples. Copper violated WQS on 15 and 17 August. Zinc increased to a max. of 100 ug/l but usually was <50 ug/l. Cd, Cr, Pb, Ni, phenolics and cyanide were not significant. Phosphorus stayed approximately 1 mg/l. Depths here in the middle of the river typically were greater than 15 feet but less than 20 feet.
6. The next transect at RM 6.5 was located in the turning basin at the upper end of the shipping channel (depths average 30 feet). Dissolved oxygen declined to 5.6 - 8.4 mg/l, usually being greater at top but not by more than 2 mg/l. NO_2 (0.3 - 4.4 mg/l) and NO_3 (<0.02 - 0.19 mg/l) was in the same range as upstream. However, NH_3 increased a small amount up to 0.28 mg/l particularly later in summer (Aug. - Sept.). Phosphorus continued at <0.05 - 0.60 mg/l while TSS was similar to and occasionally higher than upstream (19 - 280 mg/l) with greater concentrations near the bottom. Copper violations occurred on the same two days in August as upstream. Zinc generally stayed similar to upstream (<10 - 80 ug/l). Arsenic (source LOF landfill) of up to 23 ug/l and lead of 12 ug/l were detected but usually much less was found. Cyanide, phenolics, oil/grease, Cd, Cr, and Ni were not significant.
7. The Cherry Street Bridge transect (RM 4.9) is downstream from Swan Creek and CSOs. D.O. was further depressed to 3.9 - 7.2 mg/l, and usually <1 mg/l of difference (max. 3 mg/l) was detected between bottom and surface. The largest decreases in D.O. occurred from July to August. NO_2 of 0.3 - 4.4 mg/l and NO_3 (0.04 - 0.22 mg/l) were similar to upstream. NH_3 definitely increased in late August through September (0.15 - 0.35 mg/l). On July 15 there was a distinct elevation in Arsenic (27 + 34 ug/l); all other days were low. Zinc was similar or occasionally higher than upstream (<10 - 90 ug/l).
8. One cadmium of 0.6 ug/l was taken near the bottom on August 8 and copper violations primarily occurred in July and early August. Lead was similar to upstream except for one very high value (70 ug/l) which was the only one in the study area and may be due to sampling/analysis error. There was no real change in TSS (18 - 296 mg/l). and Cr, Ni, CN, phenolics and oil/grease were not of note.

9. The Maumee River downstream of I-280 bridge (RM 3.33) also had a lowered range of D.O. (2.6 - 7.4 mg/l) which was similar to upstream except for slight reduction during August (2.6 - 6.0 vs. 3.0 - 7.0 mg/l upstream). NO₃ (0.4 - 4.7 mg/l), NO₂ (0.05 - 0.18 mg/l), NH₃ (<0.05 - 0.37 mg/l), phosphorus (0.1 - 0.6 mg/l) and TSS (21 - 165 mg/l) were comparable to upstream. Arsenic increased to 32 (surface) + 40 (bottom) ug/l in July but was similar to upstream at other times. Cadmium was more often above detection limits but <0.6 ug/l. Copper was elevated in July and early August, as expected. Lead generally was low and zinc was similar to upstream. Chromium, nickel, phenolics, cyanide and oil/grease all were not significant.
10. Just upstream of the Toledo Bayshore WWTP and bypass (RM 1.5) D.O. content of 3.2 - 7.1 mg/l was not much greater than the previous site nearly 2 miles upstream. NO₃ continued to range from 0.5 - 5.0 mg/l while NO₂ usually was a bit higher (0.02 - 0.43 mg/l) than upstream. NH₃ dramatically increased to as much as 2.15 mg/l but never violated WQS. A lot of the impact in this area is due to lake effect carrying bypass waste upstream and holding bypass and effluent in the area. Phosphorus typically was <0.75 mg/l. TSS also was comparable to upstream but elevated in bottom samples on 3 days (142 - 450 mg/l). Arsenic decreased, as did Cd, while Cr, Ni, Pb and Zn were below detection or as low as upstream levels. Copper violations persisted, but never very high.
11. Downstream of the Bayshore WWTP, D.O. generally declined a small amount to 3.3 - 6.3 mg/l while NH₃ was similar to upstream (some higher, some lower) with four days > 1 mg/l. NO₃ (0.5 - 5.0 mg/l) and NO₂ (0.02 - 0.56 mg/l) were comparable to upstream. Zinc on August 27 (170 ug/l) violated WQS; all other days usually were <75 ug/l similar to upstream. Phosphorus (<0.7 mg/l), TSS (21 - 258 mg/l), Cu, Pb, Cd, Cr, and Ni were equally low as upstream or near/below detection limits.
12. The last narrow portion of the river before Cullen Park estuary (RM 0.5) had only 1 low D.O. of 3.6 mg/l; at all other times D.O. ranged from 4.0 - 7.3 mg/l, both greater and lesser than upstream. NH₃ generally was less than upstream but still up to 1.2 mg/l was detected. Ranges for NO₃ (0.5 - 5.1 mg/l), NO₂ (0.02 - 0.20 mg/l), phosphorus (<0.5 mg/l) TSS (23 - 264 mg/l), Cd (<0.5 mg/l), Cu (<15 ug/l), and Pb (<15 ug/l) were similar to upstream. Zinc generally was low (<65 ug/l) except a bottom sample of 105 ug/l. Cr, Ni Cyanide, and phenolics were less than detection.
13. The Maumee Estuary in the Cullen Park sample area (RM 0.2) was shallow (6 ft. max.). D.O. of 4.5 - 9.7 mg/l was variable in comparison to upstream. NH₃ was similar to upstream (0.09 - 0.97 mg/l) but as high as 1.4 mg/l. Ranges for NO₃ (0.5 - 5.1 mg/l), NO₂ (0.02 - 0.20 mg/l), phosphorus (<0.5 mg/l) were comparable to upstream. TSS usually was <80 mg/l but up to 150 mg/l. Copper typically was <10, but in July, 20 ug/l was detected. Zinc was <65 ug/l except on August 27 when 140 and 470 ug/l surface and bottom concentrations were found the same day as the violation at RM 1.0 (but not at RM 0.5). As, Cd, Cr, Pb, Ni, and Se were near or below detection.
14. At Maumee estuary RM 0.1 (actually the average 16 - 18 feet deep Bayshore power plant intake channel) the D.O. range was slightly reduced (2.1 - 8.0 mg/l) while NH₃ was frequently lower than the river proper (<0.05 - 0.58 mg/l) but as high as 1.1 mg/l. NO₃ also occasionally was higher (0.02 - 0.27 mg/l) than upstream. NO₂ (0.6 - 5.2 mg/l), phosphorus (<.5 mg/l), and TSS (23 - 81 mg/l) were similar to lower than upstream. Copper typically was <12 ug/l but with violations in July. Zinc declined to <60 ug/l on all dates and depths. As, Cd, Cr, Pb, Ni and Se were near or below detection.
15. Maumee Estuary RM 0.0, which is in more direct line with RM 0.5, had a D.O. content similar to RM 0.5 (3.1 - 7.5 mg/l) while NH₃ (0.05 - 0.86 mg/l) tended on occasion to be a little higher (max. 1.3 mg/l). NO₃ (0.5 - 5.3 mg/l), NO₂ (0.02 - 0.25 mg/l), and phosphorus (<0.6 mg/l) were comparable while TSS (10 - 121 mg/l) could be a small amount greater than upstream. Copper (up to 20 ug/l) was detected in July and early August. Zinc was elevated on August 27 (same day as the other upstream violations) at bottom to 140 ug/l; otherwise it was < 60 ug/l. Cd, Cr, Pb, Ni and Se were near or below detection.

Swan Creek Macroinvertebrate Data Summary

Swan Creek was sampled at river miles 10.2, 4.9, 3.9, 2.6, 1.2 and 0.6 primarily to evaluate the impact of numerous CSOs which flow into the stream between river miles 4.3 and 0.8. Station 10.2 had a relatively diverse benthic community but was suggestive of moderate enrichment. The ICI scored a 24 which is in the fair range. The artificial substrates yielded 33 taxa numerically predominated by the pollution intermediate mayfly *Stenacron*. Qualitative sampling resulted in the collection of 31 taxa predominated by isopods and midges. The natural substrates consisted primarily of sand which probably limited taxa richness and density. Water quality was considered fair.

The ICI decreased to 16 at Station 4.9 indicating that urban runoff was degrading the stream. Twenty-eight taxa were collected from the artificial substrates. The mayfly *Stenacron* was again numerically predominant in the quantitative sample. Qualitative sampling produced 22 taxa with midges predominant. The lower ICI value was due primarily to fewer mayfly and total taxa and the absence of caddisflies. Water quality remained fair.

Station 3.9 was severely degraded apparently by organic wastes and oil from several CSOs. The stream bottom was covered with a thick layer of septic muck and the water surface was coated with a skim of oil. The natural and artificial substrates produced 8 and 20 taxa, respectively; both were predominated by oligochaetes. The ICI scored a 6 at this site. Water quality was considered poor.

Station 2.6 was also severely degraded. The water surface and substrates were very oily and biological conditions were poor. Quantitative and qualitative sampling resulted in the collection of 13 and 7 taxa, respectively. The ICI score was two. The CSOs which enter Swan Creek between river miles 3.9 and 2.6 were at the very least preventing recovery from the degradation observed upstream and were probably contributing significant additional degradation. Water quality continued to be poor.

The CSOs located between river miles 2.6 and 1.2 did not appear to be contributing significant additional organic load to the stream. However, water quality remained poor due to the impact of the CSOs farther upstream. Thirteen taxa were collected from the artificial substrates at Station 1.2 with lung snails of the genus *Physella* and oligochaetes numerically predominant. A single *Stenacron* mayfly was also collected in the quantitative sample. The natural substrates supported a low density benthic community with no organisms in predominance.

Water quality was considered poor at Station 0.6. However, a small improvement was noted in the benthic community. Due to deep water at this station, qualitative sampling was greatly limited and the artificial substrates were suspended in the water column under a float. Ten taxa in low density were collected during qualitative sampling. The artificial substrates produced 23 taxa with oligochaetes numerically predominant. Much of the increase in total taxa compared with Station 1.2 is attributable to the collection of additional pollution tolerant midge taxa. Four *Stenacron* individuals were also collected from the artificial substrates. The ICI remained in the poor range with a score of 8.

Swan Creek Fish Community - 1986

The site at RM 10.2 was upstream from all listed permitted dischargers. A significant portion of the drainage basin was upstream from this site (approximately 66 sq. mi.). Most of this is split between agricultural usage and swamp and marsh land. With that background this control site was definitely impacted or had been impacted and not had a chance to recover. Habitat definitely was not a factor affecting the fish community. This site had very good riffle, pool, run development and diverse instream structure. Despite this, cumulative species was only 19 with an average of 13 species per collection. Biomass and numbers were also lower than expected. I suspect past and probably present agriculture practices have reduced the diversity and productivity at this site. Extensive water quality problems and roller dam downstream would prevent improvement by re-invasion from downstream.

The next site at RM 4.4 was located just upstream from a roller dam which backed the water up making the zone deeper. The zone still had very good flow but was deep enough to require boat electrofishing. The deepened habitat supported more larger river species with a resultant higher cumulative number of species but a lower average number per sampling. Although no CSOs are listed in the study plan one was noted halfway through the zone and numerous other storm sewer dischargers were also present. The area just upstream was also highly urbanized and these factors account for the lack of improvement in the fish community. Again the dam prevents upstream migration.

Swan Creek was extremely degraded in the lower lake effect area (RMs 3.9, 2.6, 1.2 and 0.5). Most of the impact is believed to originate from the CSO at RM 3.45 (maybe 3.15). In the vicinity of and downstream of this discharge great quantities of creosote oil were noted on the surface and in the sediments. At one point in the mid summer (1986) a fish kill was observed which left RM 2.6 devoid of fish and RM 1.2 with only a few goldfish. Fish community conditions were poor in all of these areas of Swan Creek with RMs 2.6 and 1.2 being very poor. Faunal conditions were the best at the near mouth site (RM 0.5). This is primarily due to an influx of cleaner Maumee River water during seiches and invasion of Maumee River fishes. Conditions in the most degraded areas of Swan Creek are so severe that even dead rats (Norwegian) were observed floating on the water (during the fish kill incident). Swan Creek is extremely degraded, is effecting the Maumee River main stream, and must be addressed immediately in light of human health hazards associated with creosote oil.

Swan Creek Data Summary 1986

Swan Creek - Eastgate Road (RM 10.2) - upstream water quality

This segment generally had good water quality with D.O. of 6.8 - 9.2 mg/l, low NH_4 (<0.05 mg/l), NO_2 (<0.06 mg/l), phosphorus (<0.5 mg/l), and oil/grease (<2 mg/l). One violation of WQS for phenolics (23 ug/l) was collected. Most metals (As, Cd, Cr, Pb, Ni, Se) were near or below detection. A copper violation of 13 ug/l, a zinc of 45 ug/l, and NO_3 up to 5 mg/l reflected an agricultural watershed (also the Cu and phenolics violations occurred during a period of rainfall runoff.)

Swan Creek - Detroit Avenue (RM 4.9)

Water quality continued to be good with D.O. at 5.6 - 9.5 mg/l but with small to distinct increases in NO_2 (0.02 - 0.18 mg/l), NH_4 (<0.05 - 0.72 mg/l), oil/grease (3.6 mg/l), phosphorus (0.1 - 0.9 mg/l), TSS (20 - 80 mg/l), lead (up to 13 ug/l) and zinc (up to 70 ug/l). A copper violation of 20.3 ug/l was taken during runoff. Sources may be adjacent urban areas. There are no industrial discharges or CSOs upstream.

Swan Creek - Champion Street (RM 3.9) downstream of CSOs (2)

Some degradation occurred in this region particularly during the rainfall events on August 7 and 27. D.O. content typically was good (4.7 - 9.1 mg/l) except for a 2.7 mg/l. This segment of the creek did have the highest values in the study area for BOD_5 (12 mg/l), COD (104 mg/l), NO_2 (0.6 mg/l), NH_4 (2.4 mg/l) and phosphorus (1.7 mg/l) although none were in violation of WQS. Copper of 9 and 17.7 ug/l did violate WQS while increases were noted for lead (17 ug/l), zinc (90 ug/l) and cadmium (0.5 ug/l).

Swan Creek - Hawley Street (RM 2.6)

As with the Champion Street area the D.O. was slightly less (5.8 - 8.0 mg/l) than background but was greatly reduced on occasion to 0.4 - 2.3 mg/l. Nitrogenous compounds and phosphorus typically were similar or less than upstream. A copper violation of 19 ug/l persisted along with higher lead (20 ug/l), zinc (100 ug/l), and TSS (33 - 82 mg/l). The sample location on a bridge precluded detecting much effect of the CSO underneath. A phenolics violation (41 ug/l) is attributable to a discharge from Jennison - Wright (creosote wood treater) to the sanitary sewer. This problem has been terminated.

Swan Creek - Collingwood Blvd. (RM 1.2)

Lake effect could back up flow. D.O. usually was between 4.4 - 8.6 mg/l but bouts of low values from 0.4 - 2.7 mg/l did occur. In addition, increased copper (11.8 and 18.8 mg/l), phenolics (34 ug/l), cadmium (0.7 ug/l) and TSS (100 mg/l) were detected. Nitrogenous compounds and phosphorus were similar to or less than low upstream values. All other parameters were similar to upstream and not of note.

Swan Creek - St. Clair Street (RM. 0.5)

The creek is backed up at times by the Maumee River. D.O. range was slightly lower (3.7 - 8.8 mg/l) with two low values of 0.2 and 2.6 mg/l. NO_2 was as high as 0.46 mg/l and NH_4 of 0.15 - 1.1 was at times higher than upstream. Phosphorus, oil/grease, phenolics, metals, and TSS were similar or less than upstream. Copper violations persisted (10, 12.9 ug/l).

Tenmile Creek Macroinvertebrate Data Summary

Tenmile Creek was sampled using qualitative methods at river miles 5.1, 4.1 and 1.0. Sampling was conducted primarily to determine the impact of Reichert Stamping and the Kings Road landfill on water quality as reflected by indigenous macroinvertebrates.

Station 5.1 was downstream from Reichert Stamping. Station 4.1 was downstream from the Kings Road landfill. Benthic communities were similar at the two stations. Isopods were predominant, and midges and mayflies were common. Overall density was considered low. Twenty-eight and 35 taxa were collected from Stations 5.1 and 4.1, respectively. The increase in number of taxa at Station 4.1 was due largely to the collection of air breathing beetles and hemipterans which are of little value in determining water quality. The stream appeared to be moderately degraded at both sites but cause was not readily apparent. A pipe discharging septic waste was noted at Station 5.1 and indicated that improperly operating septic systems, as well as Reichert Stamping and the Kings Road Landfill, may have been contributing to the degradation at these two sites. Water quality was considered fair to marginally good.

Water quality appeared to be less degraded at Station 1.0. However, enrichment was evident in the high density macroinvertebrate community. Thirty-six taxa were collected with water pennies, heptageniid mayflies, and hydropsychid caddisflies predominant. Water quality was considered marginally good.

Ottawa River Macroinvertebrate Data Summary

The Ottawa River was sampled using quantitative and qualitative methods at river miles 18.5, 11.0, 9.0, 7.4, 6.9, 4.9 and 1.6. The sampling was conducted primarily to determine the water quality impacts of numerous CSOs, the AMC Jeep Corp. and the Dura and Stickney landfills.

Station 18.5 was upstream from the previously mentioned sources of degradation and had good riffle/run development and a primarily rubble substrate. The artificial substrates produced 40 taxa but had an ICI score of 24 which is in the fair range. Forty-two taxa were collected from the natural substrates. Though relatively high numbers of taxa were collected, the majority of organisms were pollution intermediate or tolerant. The low number of pollution sensitive types indicated that some degradation was occurring. Water quality was considered fair.

The benthos at Station 11.0 reflected continued moderate degradation apparently due to urban runoff. Twenty-five and 28 taxa were collected from the artificial and natural substrates, respectively. The ICI scored a 14 which is in the fair range. Only one mayfly taxon was collected at this station while seven taxa were present at the previous station. In addition, pollution tolerant black flies and pollution intermediate caddisflies of the genus *Cheumatopsyche* increased in predominance on the natural substrates. Water quality remained fair but was apparently of somewhat poorer quality than at Station 18.5.

At Station 9.0 the stream was slow flowing and channelized. The effects of this less suitable habitat alone could be expected to lower the ICI value somewhat, however, an ICI value of 6 indicated that degradation from CSOs was greatly impacting the benthos. Twenty-three and 19 largely pollution tolerant taxa were collected from the artificial and natural substrates, respectively. Water quality was considered poor.

Stations 7.4, 6.9, 4.9 and 1.6 were extensively channelized and had either no perceptible current or were affected by sieches. Even though the ICI was developed for use in areas with observable current, it seemed to accurately reflect the poor biological condition at these lower stations on the Ottawa River.

Station 7.4 was downstream from the AMC Jeep Corp. and several CSOs. Water quality was considered poor but, due to degradation which was occurring upstream from the AMC Jeep Corp. from CSOs, the impact of the industrial discharges was not readily apparent. The ICI value was six and the benthic community was composed almost exclusively of pollution tolerant organisms.

The biological condition continued to decline at Station 6.9 and 4.9. Diversity was low and ICI scores of 4 and 2 were recorded from the two stations, respectively. Once again, the impact from the multitude of sources upstream precluded an evaluation of degradation due to the Dura and Stickney landfills at Station 4.9. Water quality was poor at both stations.

Water quality appeared to be slightly improved at Station 1.6 probably due to the dilution of degraded river water with cleaner water from Maumee Bay. Diversity remained low with 14 and 18 taxa collected from the quantitative and qualitative sampling, respectively. The ICI value of 6 was in the poor range. The collection of the mayfly genus *Caenis* from the natural substrates and the caddisfly *Cyrnellus fraternus* from the artificial substrates were indications that water quality was somewhat improved compared to the previous sites. However, water quality remained poor.

Terrebonne/Ottawa River Fish Community 1986

The upstream site RM 5.2 was chosen to serve as a control site for this survey. The habitat has been extensively modified - now consisting of a straight riprapped channel with an occasional riffle. Extensive canopy indicated that this had been done many years ago. Additionally only one permitted discharge was noted in the study plan upstream from the site, Medusa Cement whose discharge was eliminated in 1980(?). Despite these factors I would have expected a more diverse sample with higher biomass sample from this site. High suspended solids from the Medusa Cement Co. could have historically reduced these community attributes but there is sufficient area upstream, from which to adequately recolonize this zone. I suspect an invest-igation into their operation may find sloppy housekeeping. The site at RM 4.2 was downstream from the Kings Road Landfill and several sand and gravel operations (which do not have permits listed). The upstream half of the sampling zone was carpeted with sand. It appeared that these sand and gravel operators have probable been gravel washing which resulted in only site in this survey with sand predominating. Also, if gravel washing was occurring, the high suspended solids may also be contributing to the decline in the fish community seen here. The Kings Road Landfill probably also contributed to the decline, since the lower portions of the sampling zone had sufficient habitat heterogeneity to support more fish and larger fish than encountered. It also appears that the Kings Road Landfill may be impacting as far downstream as the next site RM 1.1. Habitat was much improved at this site with extensive cobble-boulder riffles interspersed with a few nice pools. Despite this improved habitat the only major improvement was in relative number of individuals. Relative weight and mean number of species decline slightly. Three other factors could also contribute to water quality problems at this site (in estimated decreasing order of importance) a CSO at the upstream end of the zone, France Stone Company on an unnamed tributary and the adjacent golf course which dumped fine grass clippings into the stream on a regular basis. The CSO may have contributed to the depressed community at this site especially in the pools and during low flow (some flow from the outfall was evident at all three samplings) although flow and aeration through the riffles should minimize this impact downstream areas. The grass clippings would exert BOD, but I really did not notice any decaying mats of grass causing a problem.

The upstream site on the Ottawa River RM 17.8 showed modest improvement from the downstream site on Terrebonne Creek with the number of individuals captured almost doubled and relative weight five times as great (Stream flow also was higher). The next site was considerably further downstream at RM 9.8, adjacent to the Ottawa Park Municipal Golf Course. A very noticeable impact was detected at this site. Cumulative species dropped by 5, mean number of species by over 5, relative numbers were only 25% of the upstream value with relative weight experiencing the same loss. Although habitat was somewhat poorer, a distinct odor of decaying sewage was noticed during all samplings. A portion of the Toledo sanitary sewer system is known to parallel the stream upstream from the zone 1 & 1 problems are suspected as the cause for the impact. The next site at RM 8.7, which was sited to be upstream from the Jeep Corp. outfalls (and dist from some CSOs) actually turned out to have some input from the Jeep Corp. in the middle of the sampling zone. What appeared to be thinned silver paint was noted at the 54" CSO at RM 8.45 just upstream from the Jeep Corp. painting operation. On another date a large plume of what appeared to be water miscible oil as detected.

Erosion of the banks is also a problem with trash and debris washing out in spots from where they were originally landfilled and covered. The site at RM 4.7 was downstream from the DuPont Company outfalls. Improvement was noted at this site with seven more species, double the relative number of individual and six times the biomass.

This site is also in the estuary effect and this is reflected by an increase in "lake" species. The community was still severely impacted from upstream sources, i.e. the CSOs, landfills, and DuPont Company, and bears further investigation including characterization of the chemical composition of the landfill leachate and DuPont Company outfall. Bioassays probably also should be considered in view of the location of the Ottawa River mouth in Western Lake Erie. The downstream most site showed dramatic improvement with an increase in all community parameters. This site was essentially a Lake Erie harbor site and the catch reflects that. It appears the dilutions of Ottawa River (polluted) water with Lake Erie water allowed recovery to almost WHH.

Termile Creek - Ottawa River Data Summary 1986

Termile Creek - Centennial Road (RM 5.1) - Upstream

This segment generally had good water quality with D.O. of 5.2 - 9.7 mg/l. The average nutrient load was moderately low with (<0.18 mg/l) NH_4 (<0.04 mg/l), NO_2 (4.44 mg/l), NO_3 (0.59 mg/l) phosphorus. All phenolic samples were found to be below detectable limits (<20 mg/l) and oil and grease values averaged (<1.35 mg/l). Five metals (Cd, Cr, Pb, Ni, Zn) were near or below detection. There was one copper violation of (9.6 ug/l). The iron values were high and averaged (1,658 mg/l). One total (CN) cyanide sample measured 0.16 mg/l. Agriculture was the primary influence on this segment. The only fecal coliform sample measured out at 7,400 colonies/100 ml.

Termile Creek - Sylvania Avenue (RM 4.1)

Water quality continued to be good with D.O. of 6.8 - 9.8 mg/l. There were slight decreases in the average nutrient load. Ammonia levels dropped to <0.11 mg/l, as did NO_2 (4.04 mg/l) and phosphorus (0.17 mg/l). The NO_3 level increased to 0.22 mg/l. Iron values decreased slightly, but were still elevated at 1,565 mg/l. There were two cadmium values measured as 0.6 ug/l. This site was located between the King Road Landfill and a massive quarry operation.

Termile Creek - Old Post Road (RM 1.0)

Data obtained from this station shows that conditions have improved slightly from the already good upstream water quality. D.O. ranged from 8.3 to 11.2 mg/l, and the average value of 9.5 mg/l was found to be the highest in the Termile Creek - Ottawa River study area. Average nutrient values continued to diminish with low NH_4 (<0.05 mg/l), NO_2 (<0.04 mg/l), phosphorus (0.12 mg/l), and NO_3 (3.46 mg/l). Most metals measured undetectably low, except iron and zinc, which were found to be (730 ug/l) and (20 mg/l) respectively. Rural agriculture, suburban subdivisions, and a golf course were situated between this site and the last upstream site. The one fecal coliform sample taken here was found to contain 6,100 colonies/100 ml.

Ottawa River - Sturbridge Road (RM 17.9)

Good water quality continued to be exhibited here with D.O. of 6.5 - 11.5 mg/l. Nutrient levels remained low, NH_4 (<0.05 mg/l), NO_2 (<0.05 mg/l), phosphorus (0.12 mg/l), and NO_3 (4.00 mg/l). Metals values remained low. Iron, however, increased on the average to 1,798 mg/l and cadmium values of 0.6 ug/l and 0.7 ug/l were detected in two of the samples. This station was located about two miles downstream from the Sylvania WWTP.

Ottawa River - Bancroft Street (RM 12.2)

Water quality remains good here with a D.O. of 5.8 - 9.0 mg/l. Nutrient levels increased slightly from the last site, but remain low, NH_4 (0.10 mg/l), and NO_2 (<3.64 mg/l). Iron was found to have increased in concentration to a level of 2,405 ug/l. Otherwise, metals were found to be similar to low upstream values. The fecal coliform sample obtained from this site had 4,600 colonies/100 ml.

Ottawa River - Auburn Avenue (RM 8.9)

Water quality was found to be similar to upstream conditions. Surface D.O. ranged from 4.2 - 10.5 mg/l and averaged (7.1 mg/l), slightly lower than upstream values. Nitrogenous compounds and phosphorus were similar to or less than upstream values. Iron remained high (1,890 - 3,500 ug/l) and showed a small average (2,582 ug/l) increase. Lead 4-13 ug/l increased slightly as did zinc (15 - 45 ug/l). Oil was observed on the water surface on August 7, and the samples taken were found to contain a high level of COD (50 mg/l) with one corresponding (WHH-WQ) violation for copper (7.6 ug/l). One fecal coliform sample (340,000 colonies/100 ml) was taken after a storm event.

Ottawa River - Berdan Avenue (RM 7.4)

Near surface water quality was similar to upstream conditions, however, D.O. did decline on the average and varied considerably (2.3 - 10.3 mg/l) from sample to sample. On two occasions, diurnal shifts in D.O. were recorded, (2.6 - 0.4 mg/l) on the 14th and 15th of August and (9.2 - 4.7 mg/l) on the 21st and 22nd. In addition, a near bottom measurement of 2.6 mg/l on the 21st as compared to the 9.2 mg/l near surface value indicated that there was a large amount of D.O. stratification occurring here. The depletion of near bottom D.O. may have been due to the presence of a large sludge bed. The discharges of three nearby combined sewer overflows were probably responsible for the deposition of this bed. AMC Jeep Corporation discharges effluent just upstream from this site and may also have contributed. Nutrient levels changed very little from upstream. NO_3 (2.9 mg/l) declined on the average, while NO_2 (0.05 mg/l) remained the same. NH_4 (0.11 mg/l) and phosphorus (0.2 mg/l) had minimal increases. Iron (1,730 - 3,720 ug/l) remained high, while other metals (As, Cd, Cr, Ni, Se, Zn) were at or near detection limits. Copper (6.1 ug/l) and lead (7.0 ug/l) had little average increases. One cadmium sample was measured at 0.6 ug/l. There was a fecal coliform sample (250,000/100 ml) that was very high.

Ottawa River - Lagrange Street (RM 6.4)

Oxygen levels continued to decrease and varied considerably (1.7 - 10.1 mg/l). The lowest average D.O. value (4.0 mg/l) was found to be here. Diurnal sampling indicated major shifts in D.O. levels. These shifts were (6.9 - 1.5 mg/l) on the 14th and 15th of August and (8.5 - 2.6 mg/l) on the 21st and 22nd of August. The near bottom measurement of 1.9 mg/l on the 21st as compared to the 8.5 mg/l near surface value indicated that stratification also occurred here. Nutrient levels remained about the same. NH_4 (0.24 mg/l) increased somewhat. Copper (7.7 ug/l), lead (12.2 ug/l) and zinc (39.2 ug/l) also increased on the average. Iron (1,380 - 4,310 ug/l) increased also and averaged 3,063 ug/l. The other metals were at or below detection limits. Sampling observations from August 6 to 7 indicated that stream flow was reversed (lake effect) as this site. At the same time, a large amount of surface oil was spotted moving upstream along the north bank from some downstream source. Three CSOs located in the vicinity may have been responsible for the oil. The highest fecal coliform value (540,000/100 ml) was found here.

Ottawa River - Stickney Avenue (RM 4.9)

Oxygen levels (3.0 - 9.6 mg/l) varied a lot here and averaged 5.7 mg/l. Significant shifts in D.O. were measured. These shifts were (5.3 - 2.2 mg/l) on the 14th and 15 of August and (6.0 - 2.4 mg/l) on the 21st and 22nd. The near bottom measurement of 1.2 mg/l on the 21st indicated that the D.O. was also stratified. All nutrient values increased at this site. NH_4 (0.12 - .4 mg/l) averaged 0.32 mg/l. NO_2 (0.3 - 9.65 mg/l) varied considerably and rose to a level of 3.74 mg/l. Phosphorus did not vary much (0.15 - 0.27 mg/l) and showed a small average increase (0.22 mg/l). NO_3 (0.04 - 0.08 mg/l) remained about the same at 0.06 mg/l. Iron (2,900 - 4,150 ug/l) increased to an average of 3,488 ug/l. Two copper values (13.3 and 39.6 ug/l) were found to be in violation of WWH-WQ standards. Zinc (40-135 ug/l) concentrations increased and averaged 72.5 ug/l. There was a slight increase in lead (11-17 ug/l) detected and one cadmium value of 0.7 ug/l was recorded. Other metals (As, Cr, Ni, Se) were at or below detection limits. The only fecal coliform sample taken measured out at 4,000 colonies/100 ml.

Duck Creek Macroinvertebrate Data Summary

Duck Creek was sampled at river miles 3.0, 2.1 and 0.4. Station 3.0 was located downstream from the Toledo Edison Acme station ash ponds and immediately adjacent to a large lagoon used by the Toledo WTP. The majority of flow volume, although small, was originating as overflow from this lagoon. Apparently, large amounts of waste lime had previously been discharged from the lagoon into the creek. A thick layer of soft gray much covered the entire stream bottom. Qualitative sampling produced 10 taxa collected primarily from grassy margins. Quantitative sampling yielded 6 taxa and the ICI score was zero. The benthic community was obviously severely affected by the ambient conditions.

The benthic community of Duck Creek improved only slightly at Stations 2.1 and 0.4. Quantitative sampling yielded 16 and 19 largely pollution tolerant taxa from the two sites, respectively. ICI values were in the poor range (12 and 4, respectively). The poor biological condition of the stream was apparently due to continued effect of the deposition of large amounts of lime slurry downstream from the Toledo WTP.

Duck Creek Fish Community - 1986

The Duck Creek fish community was severely impacted at all sites sampled in 1986 as a result of both poor habitat and water quality problems. The upstream-most site at RM 3.0, was situated on the east side of Wheeling Street and downstream from a marsh. The Toledo Edison Acme plant fly ash disposal lagoon was also upstream from the sampling site. If these factors were not enough, the discharge from the Toledo WTP sludge disposal lagoon was situated at the upstream end of the sampling zone. To all of this add that the stream channel was straight as an arrow and lettered with trash and lined with lime or alum sludge and you get a feeling for the habitat and water quality conditions present at the site. Only seven species were captured at this site and except for the stoneroller and mosquitofish all are considered to be tolerant of pollution. The question that this site was to answer was, does the Acme fly ash disposal lagoon impact the Duck Creek biological fish community? Ideally, we would have preferred to situate a site upstream from where we did, but the presence of the marsh prevented that. This prevents us from determining the exact extent to which the discharge from the fly ash lagoon impacts the fish community. If the discharge from the WTP's lagoon was eliminated and the sludge dredged out or allowed to flush out over a period of years, you would expect some improvement in the fish community and then be able to determine the extent of degradation from the Acme lagoon. Unfortunately, adjacent to the WTP's upland lagoon, a portion of Duck Creek was culverted with the pipe elevated slightly above the stream's surface, preventing re-invasion of fish from downstream should water quality improve. However, the pipe could be lowered to permit repopulation. The next site downstream, RM 2.1, was still suffering from the effects of extremely poor habitat. The stream channel was considerably larger and discussions with local residents revealed that this sampling site was in an area influenced by Lake Erie. Again it was not possible to determine the extent of the impact cause by the Acme Fly ash lagoon due to the pooriness of the habitat. Actually, in all my years sampling, this was probably the most difficult area to sample that I have been exposed to. The bottom consisted of a chest deep mixture of silt, WTP sludge, trash and sticks and branches with the water column being only a few inches covering this morass. Additionally, at the upstream end of the zone was a storm sewer pipe that was leaking raw sewage during the second sampling. Despite the poor habitat and suspected poor water quality five more species and one hybrid were collected at this site than at the upstream site. Three of the additional species were probably immigrants from the lake and the rest were tolerant species. Water from the lake may have diluted any water quality problems in the stream at this site permitting the additional species to survive ambient conditions.

The site at RM 0.5 was sampled by boat and was definitely influenced by water levels in the lower Maumee River and, by extension, Lake Erie. This is reflected in the fish found at this site. Species like walleye, white bass and yellow perch were collected at this site. Despite the presence of these occasional sport species, the fish community appeared impacted with the majority of the species tolerant and generally of small size indicating stress to the community.

Eliminating the WTP's sludge run-off to Duck Creek will definitely help the physical habitat in Duck Creek and quite probably help water quality.

Discharging 2.8 MGD of effluent contaminated with O&G, arsenic and SS cannot help a stream with as small a drainage as duck creek, and improving the quality of the discharge from the Acme fly ash disposal lagoon could only help the situation. Here is where I think the chemistry will help define things. Downstream from the fly ash lagoon is the Gulf Oil Refinery which supposedly ceased discharging in June of 1985. However, local residents stated that it had recently been responsible for several oil spills. I suspect that the WTP sludge would probably trap this in the sediments and would present a water quality problem until it was dredged or flushed out of the river.

Duck Creek Data Summary - 1986

Wheeling Street (RM 3.0) - the beginning of Duck Creek and downstream of Acme Ash ponds.

Water quality at this location was very poor - D.O. content on 3 of 4 days was very low (0.2 - 0.5 mg/l) along with elevated NH_4 (5.7 and 6.5 mg/l) and NO_2 was high as 0.3 mg/l. There was detectable arsenic addition instream (52 - 89 ug/l) due to Acme Ash. NO_3 generally was low (<0.1 - 0.9 mg/l) because of the effluent domination and small urban drainage area. Phosphorus was <1 mg/l. All other metals, cyanide, phenolics and oil/grease were near or below detection limits.

York Street (RM 2.1)

This station was downstream of the Toledo WTP and there was a white precipitate covering substrates. The creek was culverted through large portion of the golf course. D.O. had markedly increased to 2.4 - 7.2 mg/l although a lowered pH of 9.6 was measured and NH_4 continued to elevated (0.4 - 1.2 mg/l) with one violation of WQS for WWH. NO_3 , NO_2 , phosphorus, cyanide, phenolics, Cd, Cr, Cu, Fe, Pb, Ni, Se, and Zn were similarly as low as upstream. A high TSS of 424 mg/l was collected on September 9. Arsenic declined to 5 - 18 ug/l. Fecal coliform was 51/100 ml. [I am still trying to straighten out the anomalous hardness of 1030 mg/l].

Oberlin Drive (RM 0.4)

D.O. content again declined on 3 of 4 days to 1.9 - 2.6 mg/l. pH was within the acceptable range. NO₂ again increased slightly at 0.4 - 2.0 mg/l, while NH₃ and NO₃ declined. All metals (except an insignificant violation for copper), phosphorus, cyanide, phenolics and oil/grease were as low as upstream.

Otter Creek Macroinvertebrate Data Summary

Otter Creek was sampled using qualitative methods only at Station 7.2 and both qualitatively and quantitatively at Station 6.0, 4.0, and 0.3. The sampling was conducted primarily to evaluate the impact of the LOF landfill, the Sun Oil Company refinery and the Fondessy Landfill.

Otter Creek at Station 7.2 was a small ditch-like stream. The stream supported a high density community of primarily pollution tolerant organisms. Fifteen taxa were collected with isopods predominant. The low diversity and absence of pollution sensitive organisms indicated moderate degradation was affecting the stream. Water quality was considered fair.

Severe biological degradation was present at all the quantitative sites where zero ICI values were scored. The stream was essentially devoid of benthic organisms at Station 6.0 after flowing under the LOF Landfill. The stream bottom was coated with a thick deposit of oily gray solids and muck, and a strong chemical odor was present. No organisms were collected from the artificial substrates and only one midge of the Chironmus riparius group and a surface breathing beetle were collected during qualitative sampling. Water quality was considered very poor and toxic.

Very poor water quality and toxic conditions continued at Station 4.0. The artificial substrates produced oligochaetes and one pollution tolerant midge. Oligochaetes and Chironmus riparius group midges were collected from the natural substrates.

Toxicity was apparently diminished slightly at Station 2.0. Thirteen taxa in moderate density were collected from the natural substrates with midges and damselflies predominant. Oligochaetes predominated on the artificial substrates from which three taxa were collected. A strong oily/septic odor was noted. Due to the severe degradation from the LOF Landfill the impact of the Sun Oil Refinery and the Fondessy Landfill was not readily apparent. Water quality was considered very poor.

In addition to being grossly polluted by industrial wastes Station 0.3 was also impacted by a thermal discharge from the Sohio Refinery. This discharge has since been relocated to Maumee Bay. Quantitative sampling yielded seven taxa. Ten taxa were collected from the natural substrates. Water quality continued to be very poor.

Otter Creek Fish Community - 1986

The Otter Creek fish community was severely impacted by water quality and habitat problems at all sites sampled in 1986 (Emphasis on water quality problems). The upstream site at RM 7.2, upstream from E. Broadway Street which was supposed to serve as a control site, was a straight channelized agricultural ditch. This site definitely had the potential to become intermittent. Additionally, a railroad yard with its attendant problems, was situated in the upstream portion of the basin. All these factors contributed to the depauperate community found at this site. Also, well documented historical and current water quality problems from RM 6.4 downstream to the mouth would prevent re-invasion of fish into this segment regardless of any improvement in water quality at this site. Proceeding downstream no improvement in water quality as evidenced by improvements in the fish community was noted. The highest cumulative number of species was only three species, with several sites having either no fish or only 1 or 2 individuals collected during a sample.

Physical evidence of chemical contamination was prevalent at all downstream sites. The Pickle Road site - RM 5.7, had a reddish brown flocculent precipitate in backwater areas. Hydrogen sulfide and other unidentified noxious smelling chemicals were released from the sediments when sampling this site. The only permitted entity upstream from this site was the closed LOF facility and its landfill. District personnel revealed a suspected problem with overflow from the landfill. The next site downstream, RM 4.0 - upstream from Wheeling Street, although having poor habitat should have supported more species and a higher density of fish than was collected. The Sun Oil - Toledo Refinery definitely was responsible for further degradation of water quality at this site. The stream bank and sediments were oil soaked in several areas. Wading in these areas released from the sediment streamers and globules of dark black oil with a strong chemical smell different from that noticed at the Pickle Road site. Some areas (i.e. backwater areas with decomposing organic matter) also yielded H₂S when disturbed.

The sites at RM 2.1 and 0.5 were influenced by lake effect. Both sites had riparian vegetation and instream cover adequate to support a higher quality fish community than what was sampled. However, heated effluent (38 oC -- hot enough to cause an outboard engine to overheat and stall) from the Sohio Refinery was periodically forced upstream by seiches. This resulted in very few fish collected at these sites. Apparently the impact did not extend into the Maumee River since very little difference was distinguished between sites upstream and downstream from the mouth.

Otter Creek Data Summary - 1986

Otter Creek - Oakdale Street (RM 5.9) - downstream LOF landfill.

Water quality was severely degraded as evidenced by very low D.O. (0.2 - 0.5 mg/l) on 3 sample days, high pH 8.6 - 10.2, NH₃ (0.4 - 2.5 mg/l), phenolics (> 100 ug/l), As (>350 ug/l), Cd (1.0 ug/l), Cu (17 - 30 ug/l) and slight increase of Pb³⁺ (4 - 12 ug/l). Up to 0.3 mg/l of NO₂ were detected. Also on two days (August 20, September 10) maximum and minimum for D.O. content were less than 1 mg/l. This degradation was due to leachate from LOF infiltrating the Otter Creek culvert running through the landfill. I was told by Bruce Dunlavy (NWDO industrial WW) that the landfill has been capped and LOF hopes the leaching eventually stops. A fecal coliform count of 1500/100 ml may be due to on-site waste systems.

Otter Creek - Wheeling Street (RM 4.0)

Through almost two stream miles water quality slightly improved in D.O. content (2.4 - 4.2 mg/l) and pH (7.4 - 8.4); however, NH₃ of 0.7 - 1.7 still violated WQS for WW. NO₂ continued as high as 0.4 mg/l. Phenolics declined to 25 - 49 ug/l and As₃ to approximately 20 ug/l. A Nickel of 120 ug/l was collected and 0.016 mg/l of cyanide was detected on two days (source?). Other metals (Cd, Cu, Pb) were no longer of particular note. Diurnal D.O. fluctuation on two days was between 1.5 - 2.5 mg/l.

Otter Creek - Millard Avenue (RM 2.1) adjacent to Fondessy Landfill

Water quality, although still degraded, had slightly improved (D.O. 2.7 - 5.8 mg/l) with the exception of a D.O. of 0.1 mg/l, continued NH₃ of 0.9 - 2.4 mg/l, Cyanide (0.011 - 0.016 mg/l), phenolics of 20 - 34 ug/l, and a Copper of 15

ug/l. All other metals generally were present in low concentrations. Diurnal D.O. was more variable at 1.5 - 5 mg/l and 7 - 8 mg/l on August and September days. Lake effect could really slow the flow through this area.

Otter Creek - Unnamed port road (RM 0.5)

This station is located just upstream of the Sohio - Toledo discharge, and lake effect and winds drive effluent upstream at times (discharge now moved to Maumee Bay).

Some improvement had occurred but D.O. of 4.2 - 5.0 mg/l is lower than expected. Diurnal D.O. also could get very low (0.1 mg/l) with a narrow range (<1 mg/l). Temperature (35 - 38°C) was due to the thermal discharge. NH₃ to 0.1 - 0.4 mg/l. Cyanide and phenolics also decreased. High copper (15 - 53 ug/l) and zinc (140 ug/l) were detected but As, Cd, Cr, Pb, Ni, and Se were in low concentration.

Cedar Creek Macroinvertebrate Data Summary

Cedar Creek was sampled at river mile 20.9. It is similar in size and geographic proximity to Otter Creek and Duck Creek and was considered a control station. When sampling was conducted the stream bottom was covered with filamentous algae and flow was nearly intermittent. Qualitative sampling produced 43 taxa with isopods predominant. Heterotriid and ephemeriid mayflies were common and a diverse assemblage of beetle taxa was collected from the natural substrates. Quantitative sampling yielded 34 taxa. An ICI value of 34 at this site was in the good range. Cedar Creek appeared to be enriched by agricultural runoff but the macroinvertebrate community at Station 20.9 indicated that the impact was not severe. Water quality was considered good and should be typical of what could be attained in both Otter Creek and Duck Creek.

Cedar Creek - Oregon Road (RM ?)

This background site was in an agricultural area and usually had low flow when sampled. Water quality was very good (D.O. = 4.3 - 9.9 mg/l, NO₃ = <0.1 - 5.0 mg/l, NO₂ = <0.02 - 0.09 mg/l, NH₃ = 0.1 - 0.4 mg/l, phosphorus = <0.05 - 0.18 mg/l, metals average less than detection) although a NO₃ of 5 mg/l, NH₃ of 0.4 mg/l, and NO₂ of 0.2 mg/l were collected (perhaps due to non-point sources and on-site problems). Diurnal D.O. fluctuation was quite large (2.5 - 15.6 mg/l).

APPENDIX H

Toxic Pollutant Listing
1987 Clean Water Act, §307

APPENDIX H

[Section 307(a)(1) of the Clean Water Act of 1987 refers to the list of toxic pollutants published in Table 1 of Committee Print Number 95-30 of the House Committee of Public Works and Transportation. Following is the text of Table 1:]

SECTION 307
TABLE 1: TOXIC POLLUTANTS

Acenaphthene
Acrolein
Acrylonitrile
Aldrin/Dieldrin
Antimony and compounds*
Arsenic and compounds
Asbestos
Benzene
Benzidine
Beryllium and compounds
Cadmium and compounds
Carbon tetrachloride
Chlordane (technical mixture & metabolites)
Chlorinated benzenes (other than dichlorobenzenes)
 Chlorinated ethanes (including 1,2 - dichloroethane, 1,1,1 -
 trichloroethane, and hexachloroethane)
Chloroalkyl ethers (chloromethyl, chloroethyl, and mixed ethers)
Chlorinated naphthalene
Chlorinated phenols (other than those listed elsewhere; includes
 trichlorophenols and chlorinated cresols)
Chloroform
2-chlorophenol
Chromium and compounds
Copper and compounds
Cyanides
DDT and metabolites
Dichlorobenzenes (u,2-, 1,3-, and 1,4-dichlorobenzenes)
Dichlorobenzidine
Dichloroethylenes (1,1- and 1,2-dichloroethylene)
2,4-dimethylphenol
Dinitrotoluene
Diphenylhydrazine
Endosulfan and metabolites
Endrin and metabolites
Ethylbenzene
Flouranthene
Haloethers (other than those listed elsewhere; includes chlorophenyl-
 phenyl ethers, bromophenylphenyl ether, bis(dichloroisopro-
 pyl) ether, bis-(chloroethoxy)methane and polychlorinated diphe-
 nyl ethers)
Halomethanes (other than those listed elsewhere; includes methylene
 chloride, methylchloride, methylbromide, bromide, bromoform,
 dichlorobromomethane, trichlorofluoromethane, dichlorodifluoro-
 methane)

APPENDIX H continued

Heptachlor and metabolites
Hexachlorobutadiene
Hexachlorocyclohexane (all isomers)
Hexachlorocyclopentadiene
Isophorone
Lead and compounds
Mercury and compounds
Naphthalene
Nickel and compounds
Nitrobenzene
Nitrophenols (including 2,4-dinitrophenol) dinitrocresol)
Nitrosamines
Pentachlorophenol
Phenol
Phthalate esters
Polychlorinated biphenyls (PCBs)
Polynuclear aromatic hydrocarbons (including benzanthracenes,
benzopyrenes, benzofluoranthene, chrysenes, dibenzanthracenes, and
indeno[1,2,3-cd]pyrenes)
Selenium and compounds
Silver and compounds
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
Tetrachloroethylene
Thallium and compounds
Toluene
Toxaphene
Trichloroethylene
Vinyl Chloride
Zinc and compounds

APPENDIX I

NPDES Permit Violations, 1987-1988

**APPENDIX I
NPDES PERMIT VIOLATIONS
In the Lower Maumee RAP Area
1987 - 1988**

The following Appendix lists violations of NPDES Permits in the RAP Area for 1987 and most of 1988. The listing is grouped by effluent parameter for each outfall of each NPDES Permit.

There are five columns of violations data: the Average Quantity, the Maximum Quantity, the Minimum Concentration, the Average Concentration, and the Maximum Concentration. Under each of these there may or may not be a limitation set in the NPDES permit, depending on the parameter. For example, for pH both maximum and minimum "concentration" limitations are normally set. There may not be a limit based on the average, and "quantity" is not applicable. For BOD₅, there are normally maximum concentration and quantity limits, while for Dissolved Oxygen, the limit is based on minimum concentration.

These data are included as violations because the limit was exceeded in at least one column, but not necessarily in all five. Where there are no applicable effluent limitations, the space is left blank. Where no data was reported, "0" is printed.

The units of the effluent data are shown. Total quantities are in kg/day, and most concentrations are in mg/l or µg/l. "SU" stands for "Standard Units." This abbreviation is used for pH (refers to the standard pH scale of 0 to 14), and for bacteria, which are measured in organisms per 100 ml of water. Very high bacterial counts are often reported as "TNTC," or "too numerous to count." Such cases are given here as 1,000,000. Water temperatures are given as ° Fahrenheit or ° Celsius.

As an example of how to read the table:

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
21G00003 NPDES Number	02/28/87 001 Discharge Date Outfall Number	Sun Refining & Marketing Co. Name of Discharger	Phenolics, Total Effluent Parameter	2 1 Avg Quantity Limit, kg/day Avg Quantity Discharged	4 5 Max Quantity Limit, kg/day Max Quantity Discharged	0 µg/l Minimum Concentrations Discharged, µg/l	100 µg/l 91 µg/l Average Concentrations Discharged, µg/l	200 µg/l 497 µg/l Maximum Concentrations Discharged, µg/l	1 Number of Violations

In this example, violations have occurred in both the maximum quantity and the maximum concentration.

- * Subsubtotal * = Number of violations of this specific effluent parameter at this outfall.
- ** Subtotal ** = Total number of violations of all parameters at all outfalls for this permit.
- *** Total *** = Grand total of violations for all permits.

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
** VIOLATIONS FOR NPDES: 21B00000									
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
21B00000	05/31/87	Toledo Edison, Bayshore Plant	Fecal Coliform	0	0	0 SU	1000 SU 5000 SU	2000 SU 5000 SU	1
* Subsubtotal *									
* VIOLATIONS FOR PARAMETER: PH									
21B00000	04/30/87	Toledo Edison, Bayshore Plant	pH	0	0	6 SU	0 SU	9 SU	1
21B00000	05/31/88	Toledo Edison, Bayshore Plant	pH	0	0	6 SU	0 SU	9 SU	1
21B00000	06/30/88	Toledo Edison, Bayshore Plant	pH	0	0	6 SU	0 SU	9 SU	1
* Subsubtotal *									
** Subtotal **									
** VIOLATIONS FOR NPDES: 21B00001									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
21B00001	10/31/87	Toledo Edison, ACME Plant	Chlorine, Total Residual	8	23				1
21B00001	12/31/87	Toledo Edison, ACME Plant	Chlorine, Total Residual	5	45	0 mg/l	0 mg/l	0 mg/l	1
21B00001	02/29/88	Toledo Edison, ACME Plant	Chlorine, Total Residual	8	23	0 mg/l	0 mg/l	0 mg/l	1
21B00001	05/31/88	Toledo Edison, ACME Plant	Chlorine, Total Residual	8	23	0 mg/l	0 mg/l	0 mg/l	1
21B00001	06/30/88	Toledo Edison, ACME Plant	Chlorine, Total Residual	2	29	0 mg/l	0 mg/l	0 mg/l	1
* Subsubtotal *									
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
21B00001	06/30/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	466	0 mg/l	0 mg/l	0 mg/l	1
21B00001	09/30/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	579	0 mg/l	0 mg/l	0 mg/l	1
21B00001	11/30/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	1022	0 mg/l	0 mg/l	0 mg/l	1
21B00001	12/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	534	0 mg/l	0 mg/l	0 mg/l	1
21B00001	01/31/88	Toledo Edison, ACME Plant	Solids, Total Suspended	0	568	0 mg/l	0 mg/l	0 mg/l	1
21B00001	02/29/88	Toledo Edison, ACME Plant	Solids, Total Suspended	0	806	0 mg/l	0 mg/l	0 mg/l	1
21B00001	03/31/88	Toledo Edison, ACME Plant	Solids, Total Suspended	0	659	0 mg/l	0 mg/l	0 mg/l	1
21B00001	04/30/88	Toledo Edison, ACME Plant	Solids, Total Suspended	0	806	0 mg/l	0 mg/l	0 mg/l	1
21B00001	05/31/88	Toledo Edison, ACME Plant	Solids, Total Suspended	0	500	0 mg/l	0 mg/l	0 mg/l	1
21B00001	06/30/88	Toledo Edison, ACME Plant	Solids, Total Suspended						1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2IB00001	010 07/31/88	Toledo Edison, ACME Plant	Solids, Total Suspended	0	375	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	010 01/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	318	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 02/28/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	749	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 03/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	511	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 04/30/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	488	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 05/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	397	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 06/30/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	261	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 07/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	534	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 08/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	522	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 09/30/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	318	0 mg/l	0 mg/l	0 mg/l	1
2IB00001	011 10/31/87	Toledo Edison, ACME Plant	Solids, Total Suspended	0	954	0 mg/l	0 mg/l	0 mg/l	1
* Subsubtotal *									0
** Subtotal **									21
** VIOLATIONS FOR NPDES: 2ID00011									26
* VIOLATIONS FOR PARAMETER: PH									
2ID00011	001 05/31/87	Koppers Company, Inc.	pH	0	0	0 SU	7 SU	9 SU	1
2ID00011	001 06/30/87	Koppers Company, Inc.	pH	0	0	0 SU	6 SU	7 SU	1
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: TEMPERATURE, FAHRENHEIT									2
2ID00011	001 04/30/87	Koppers Company, Inc.	Temperature, Fahrenheit	0	0	0 °F	0 °F	15 °F 16 °F	1
* Subsubtotal *									1
** Subtotal **									3
** VIOLATIONS FOR NPDES: 2IF00016									
* VIOLATIONS FOR PARAMETER: TEMPERATURE, CELSIUS									
2IF00016	001 01/31/88	E. I. DuPont Denemours & Co.	Temperature, Celsius	0	0	0 °C	0 °C	20 °C 55 °C	1
2IF00016	001 02/29/88	E. I. DuPont Denemours & Co.	Temperature, Celsius	0	0	0 °C	0 °C	20 °C 56 °C	1
2IF00016	001 03/31/88	E. I. DuPont Denemours & Co.	Temperature, Celsius	0	0	0 °C	0 °C	20 °C 49 °C	1
2IF00016	001 04/30/88	E. I. DuPont Denemours & Co.	Temperature, Celsius	0	0	0 °C	0 °C	20 °C 21 °C	1
2IF00016	001 06/30/88	E. I. DuPont Denemours & Co.	Temperature, Celsius	0	0	0 °C	0 °C	20 °C 23 °C	1

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21F00016	07/31/88	E. I. DuPont Denemours & Co.	Temperature, Celsius	0	0	0 °C	0 °C	20 °C	1
21F00016	01/31/88	E. I. DuPont Denemours & Co.	Temperature, Celsius	0	0	0 °C	0 °C	22 °C	1
21F00016	02/29/88	E. I. DuPont Denemours & Co.	Temperature, Celsius	0	0	0 °C	0 °C	56 °C	1
21F00016	07/31/88	E. I. DuPont Denemours & Co.	Temperature, Celsius	0	0	0 °C	0 °C	20 °C	1
				0	0	0 °C	0 °C	60 °C	1
				0	0	0 °C	0 °C	20 °C	1
				0	0	0 °C	0 °C	25 °C	1
* Subsubtotal *									9
** Subtotal **									9
** VIOLATIONS FOR NPDES: 21F00017									
* VIOLATIONS FOR PARAMETER: TEMPERATURE, CELSIUS									
21F00017	08/31/88	E. I. DuPont Denemours & Co.	Temperature, Celsius	0	0	0 °C	15 °C	20 °C	1
				0	0	0 °C	13 °C	22 °C	1
* Subsubtotal *									1
** Subtotal **									1
** VIOLATIONS FOR NPDES: 21G00003									
* VIOLATIONS FOR PARAMETER: BOD 5									
21G00003	05/31/87	Sun Refining & Marketing Co.	BOD 5	305	568				1
				291	730	0 mg/l	0 mg/l	0 mg/l	1
21G00003	06/30/87	Sun Refining & Marketing Co.	BOD 5	305	568				1
				357	1172	0 mg/l	0 mg/l	0 mg/l	1
21G00003	03/31/88	Sun Refining & Marketing Co.	BOD 5	305	568				1
				564	945	0 mg/l	0 mg/l	0 mg/l	1
* Subsubtotal *									3
* VIOLATIONS FOR PARAMETER: COD									
21G00003	06/30/87	Sun Refining & Marketing Co.	COD	1820	3410				1
				1940	7336	0 mg/l	0 mg/l	0 mg/l	1
21G00003	03/31/88	Sun Refining & Marketing Co.	COD	1820	3410				1
				2280	6225	0 mg/l	0 mg/l	0 mg/l	1
* Subsubtotal *									2
* VIOLATIONS FOR PARAMETER: OIL AND GREASE									
21G00003	02/29/88	Sun Refining & Marketing Co.	Oil and Grease	146	273		10 mg/l	20 mg/l	1
				62	189	0 mg/l	7 mg/l	22 mg/l	1
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
21G00003	04/30/87	Sun Refining & Marketing Co.	Oxygen, Dissolved	0	0	4 mg/l	5 mg/l		1
				0	0	4 mg/l	7 mg/l	0 mg/l	1
21G00003	05/31/87	Sun Refining & Marketing Co.	Oxygen, Dissolved	0	0	4 mg/l	5 mg/l		1
				0	0	4 mg/l	6 mg/l	0 mg/l	1
21G00003	06/30/87	Sun Refining & Marketing Co.	Oxygen, Dissolved	0	0	4 mg/l	5 mg/l		1
				0	0	4 mg/l	6 mg/l	0 mg/l	1
21G00003	07/31/87	Sun Refining & Marketing Co.	Oxygen, Dissolved	0	0	4 mg/l	5 mg/l		1
				0	0	4 mg/l	6 mg/l	0 mg/l	1
21G00003	08/31/87	Sun Refining & Marketing Co.	Oxygen, Dissolved	0	0	4 mg/l	5 mg/l		1
				0	0	4 mg/l	6 mg/l	0 mg/l	1

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2IG00003	09/30/87	Sun Refining & Marketing Co.	Oxygen, Dissolved	0	0	4 mg/l	6 mg/l	0 mg/l	1
2IG00003	03/31/88	Sun Refining & Marketing Co.	Oxygen, Dissolved	0	0	4 mg/l	7 mg/l	0 mg/l	1
* Subsubtotal *				0	0	1 mg/l	0 mg/l	0 mg/l	7
* VIOLATIONS FOR PARAMETER: PH									
2IG00003	03/31/88	Sun Refining & Marketing Co.	pH	0	0	6 SU	0 SU	9 SU	1
* Subsubtotal *				0	0	7 SU	0 SU	10 SU	1
* VIOLATIONS FOR PARAMETER: PHENOLICS, TOTAL									
2IG00003	02/28/87	Sun Refining & Marketing Co.	Phenolics, Total	2	4		100 µg/l	200 µg/l	1
2IG00003	06/30/87	Sun Refining & Marketing Co.	Phenolics, Total	1	5	0 µg/l	91 µg/l	497 µg/l	1
2IG00003	10/31/87	Sun Refining & Marketing Co.	Phenolics, Total	2	4	0 µg/l	100 µg/l	200 µg/l	1
2IG00003	12/31/87	Sun Refining & Marketing Co.	Phenolics, Total	2	13	0 µg/l	226 µg/l	1320 µg/l	1
2IG00003	01/31/88	Sun Refining & Marketing Co.	Phenolics, Total	1	4	0 µg/l	100 µg/l	200 µg/l	1
2IG00003	02/28/88	Sun Refining & Marketing Co.	Phenolics, Total	2	4	0 µg/l	82 µg/l	330 µg/l	1
2IG00003	03/31/88	Sun Refining & Marketing Co.	Phenolics, Total	1	4	0 µg/l	100 µg/l	200 µg/l	1
2IG00003	05/31/88	Sun Refining & Marketing Co.	Phenolics, Total	2	4	0 µg/l	82 µg/l	378 µg/l	1
2IG00003	06/30/88	Sun Refining & Marketing Co.	Phenolics, Total	2	4	0 µg/l	100 µg/l	200 µg/l	1
2IG00003	09/30/87	Standard Oil Co., Ohio	Oxygen, Dissolved	3	6	0 mg/l	0 mg/l	0 mg/l	1
* Subsubtotal *				3	8	0 mg/l	0 mg/l	0 mg/l	1
** Subtotal **									
** VIOLATIONS FOR NPDES: 2IG00007									
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2IG00007	04/30/87	Standard Oil Co., Ohio	Oxygen, Dissolved	0	0	4 mg/l	5 mg/l	0 mg/l	1
2IG00007	05/31/87	Standard Oil Co., Ohio	Oxygen, Dissolved	0	0	6 mg/l	7 mg/l	0 mg/l	1
2IG00007	06/30/87	Standard Oil Co., Ohio	Oxygen, Dissolved	0	0	4 mg/l	5 mg/l	0 mg/l	1
2IG00007	07/31/87	Standard Oil Co., Ohio	Oxygen, Dissolved	0	0	6 mg/l	7 mg/l	0 mg/l	1
2IG00007	08/31/87	Standard Oil Co., Ohio	Oxygen, Dissolved	0	0	4 mg/l	5 mg/l	0 mg/l	1
2IG00007	09/30/87	Standard Oil Co., Ohio	Oxygen, Dissolved	0	0	6 mg/l	6 mg/l	0 mg/l	1

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2IG00007	002 07/31/88	Standard Oil Co., Ohio	Oxygen, Dissolved	0	0	6 mg/l	6 mg/l	0 mg/l	1
	002			0	0	4 mg/l	5 mg/l	0 mg/l	
		* Subsubtotal *				4 mg/l	0 mg/l	0 mg/l	7
		** Subtotal **							7
** VIOLATIONS FOR NPDES: 2IH00093									
* VIOLATIONS FOR PARAMETER: BOD 5									
2IH00093	09/30/87	General Mills, Inc.	BOD 5	0	0	0 mg/l	56 mg/l	45 mg/l	1
	001							56 mg/l	
2IH00093	04/30/88	General Mills, Inc.	BOD 5	0	0	0 mg/l	25 mg/l	45 mg/l	1
	001							48 mg/l	
2IH00093	05/31/88	General Mills, Inc.	BOD 5	0	0	0 mg/l	70 mg/l	45 mg/l	1
	001							110 mg/l	
		* Subsubtotal *							3
* VIOLATIONS FOR PARAMETER: PH									
2IH00093	05/31/87	General Mills, Inc.	pH	0	0	6 SU	0 SU	9 SU	1
	001					6 SU		6 SU	
2IH00093	09/30/87	General Mills, Inc.	pH	0	0	6 SU	0 SU	9 SU	1
	001					5 SU		5 SU	
2IH00093	10/31/87	General Mills, Inc.	pH	0	0	6 SU	0 SU	9 SU	1
	001					6 SU		6 SU	
2IH00093	05/31/88	General Mills, Inc.	pH	0	0	6 SU	0 SU	9 SU	1
	001					6 SU		7 SU	
		* Subsubtotal *							4
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2IH00093	05/31/87	General Mills, Inc.	Solids, Total Suspended	0	0	0 mg/l	0 mg/l	45 mg/l	1
	001							56 mg/l	
2IH00093	02/29/88	General Mills, Inc.	Solids, Total Suspended	0	0	0 mg/l	35 mg/l	45 mg/l	1
	001							67 mg/l	
2IH00093	04/30/88	General Mills, Inc.	Solids, Total Suspended	0	0	0 mg/l	33 mg/l	45 mg/l	1
	001							49 mg/l	
		* Subsubtotal *							3
		** Subtotal **							10
** VIOLATIONS FOR NPDES: 2IJ00039									
* VIOLATIONS FOR PARAMETER: PH									
2IJ00039	06/30/88	The France Stone Company	pH	0	0	7 SU	0 SU	9 SU	1
	001					6 SU		6 SU	
		* Subsubtotal *							1
		** Subtotal **							1

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** VIOLATIONS FOR NPDES: 21J00052									
* VIOLATIONS FOR PARAMETER: PH									
21J00052	03/00/00	Stoneco	pH	0	0	0 SU	0 SU	0 SU	1
* Subsubtotal *									
** Subtotal **									
** VIOLATIONS FOR NPDES: 2IN00013									
* VIOLATIONS FOR PARAMETER: AMMONIA NITROGEN									
2IN00013	01/31/87	Fondessy Enterprises Inc.	Ammonia Nitrogen	0	1		3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	6 mg/l	6 mg/l	
2IN00013	06/30/88	Fondessy Enterprises Inc.	Ammonia Nitrogen	0	1		3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	15 mg/l	15 mg/l	
2IN00013	07/31/88	Fondessy Enterprises Inc.	Ammonia Nitrogen	0	1		3 mg/l	5 mg/l	1
	001			0	0	0 mg/l	13 mg/l	15 mg/l	
* Subsubtotal *									
** Subtotal **									
* VIOLATIONS FOR PARAMETER: PH									
2IN00013	03/31/88	Fondessy Enterprises Inc.	pH	0	0	7 SU	0 SU	9 SU	1
	001			0	0	9 SU	0 SU	9 SU	
2IN00013	03/31/88	Fondessy Enterprises Inc.	pH	0	0	7 SU	0 SU	9 SU	1
	001			0	0	9 SU	0 SU	9 SU	
* Subsubtotal *									
** Subtotal **									
** VIOLATIONS FOR NPDES: 2IN00069									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2IN00069	06/30/87	Liquid Carbonic Corp.	Chlorine, Total Residual	0	0	5 mg/l	0 mg/l	1 mg/l	1
	601			0	0	0 mg/l	0 mg/l	5 mg/l	
2IN00069	06/30/88	Liquid Carbonic Corp.	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	601			0	0	0 mg/l	4 mg/l	4 mg/l	
* Subsubtotal *									
** Subtotal **									
* VIOLATIONS FOR PARAMETER: PH									
2IN00069	06/30/87	Liquid Carbonic Corp.	pH	0	0	7 SU	0 SU	9 SU	1
	001			0	0	6 SU	0 SU	6 SU	
* Subsubtotal *									
** Subtotal **									
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2IN00069	03/31/88	Liquid Carbonic Corp.	Solids, Total Suspended	0	0	0 mg/l	0 mg/l	15 mg/l	1
	001			0	0	0 mg/l	0 mg/l	16 mg/l	
2IN00069	06/30/88	Liquid Carbonic Corp.	Solids, Total Suspended	0	0	0 mg/l	0 mg/l	15 mg/l	1
	001			0	0	0 mg/l	0 mg/l	41 mg/l	
* Subsubtotal *									
** Subtotal **									

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** VIOLATIONS FOR NPDES: 2IN00079

* VIOLATIONS FOR PARAMETER: AMMONIA NITROGEN

2IN00079	01/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 107 mg/l	5 mg/l 138 mg/l	1
2IN00079	02/28/87	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 81 mg/l	5 mg/l 120 mg/l	1
2IN00079	03/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 120 mg/l	5 mg/l 155 mg/l	1
2IN00079	04/30/87	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 151 mg/l	5 mg/l 158 mg/l	1
2IN00079	05/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 111 mg/l	5 mg/l 137 mg/l	1
2IN00079	06/30/87	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 103 mg/l	5 mg/l 113 mg/l	1
2IN00079	07/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 73 mg/l	5 mg/l 87 mg/l	1
2IN00079	08/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 86 mg/l	5 mg/l 102 mg/l	1
2IN00079	09/30/87	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 107 mg/l	5 mg/l 115 mg/l	1
2IN00079	10/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 125 mg/l	5 mg/l 163 mg/l	1
2IN00079	11/30/87	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 115 mg/l	5 mg/l 162 mg/l	1
2IN00079	12/31/87	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 61 mg/l	5 mg/l 80 mg/l	1
2IN00079	01/31/88	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 128 mg/l	5 mg/l 128 mg/l	1
2IN00079	03/31/88	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 63 mg/l	5 mg/l 83 mg/l	1
2IN00079	04/30/88	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 67 mg/l	5 mg/l 86 mg/l	1
2IN00079	05/18/88	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 62 mg/l	5 mg/l 71 mg/l	1
2IN00079	06/30/88	King Road Sanitary & Landfill	Ammonia Nitrogen	0	0	0 mg/l	3 mg/l 78 mg/l	5 mg/l 123 mg/l	1

* Subsubtotal *

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* VIOLATIONS FOR PARAMETER: BOD 5

2IN00079	01/31/87	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l 73 mg/l	20 mg/l 80 mg/l	1
2IN00079	02/28/87	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l 14 mg/l	20 mg/l 22 mg/l	1
2IN00079	03/31/87	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l 34 mg/l	20 mg/l 40 mg/l	1
2IN00079	04/30/87	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l 60 mg/l	20 mg/l 83 mg/l	1
2IN00079	05/31/87	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l 63 mg/l	20 mg/l 79 mg/l	1
2IN00079	06/30/87	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l 71 mg/l	20 mg/l 84 mg/l	1
2IN00079	07/31/87	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l 62 mg/l	20 mg/l 66 mg/l	1
2IN00079	08/31/87	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l 58 mg/l	20 mg/l 68 mg/l	1
2IN00079	09/30/87	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l	20 mg/l	1

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21N00079	001 10/31/87	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	67 mg/l	85 mg/l	1
21N00079	001 11/30/87	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l	20 mg/l	1
21N00079	001 12/31/87	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	64 mg/l	68 mg/l	1
21N00079	001 01/31/88	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l	20 mg/l	1
21N00079	001 03/31/88	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	44 mg/l	52 mg/l	1
21N00079	001 04/30/88	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l	20 mg/l	1
21N00079	001 05/31/88	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	60 mg/l	73 mg/l	1
21N00079	001 06/30/88	King Road Sanitary & Landfill	BOD 5	0	0	0 mg/l	10 mg/l	20 mg/l	1
* Subsubtotal *				0	0	0 mg/l	51 mg/l	51 mg/l	1
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED							10 mg/l	20 mg/l	1
21N00079	001 02/28/87	King Road Sanitary & Landfill	Solids, Total Suspended	0	0	0 mg/l	56 mg/l	73 mg/l	1
21N00079	001 04/30/87	King Road Sanitary & Landfill	Solids, Total Suspended	0	0	0 mg/l	10 mg/l	20 mg/l	1
21N00079	001 05/31/87	King Road Sanitary & Landfill	Solids, Total Suspended	0	0	0 mg/l	25 mg/l	38 mg/l	1
21N00079	001 07/31/87	King Road Sanitary & Landfill	Solids, Total Suspended	0	0	0 mg/l	30 mg/l	45 mg/l	1
21N00079	001 08/31/87	King Road Sanitary & Landfill	Solids, Total Suspended	0	0	0 mg/l	77 mg/l	106 mg/l	1
21N00079	001 09/30/87	King Road Sanitary & Landfill	Solids, Total Suspended	0	0	0 mg/l	30 mg/l	45 mg/l	1
21N00079	001 11/30/87	King Road Sanitary & Landfill	Solids, Total Suspended	0	0	0 mg/l	56 mg/l	97 mg/l	1
21N00079	001 03/31/88	King Road Sanitary & Landfill	Solids, Total Suspended	0	0	0 mg/l	30 mg/l	45 mg/l	1
* Subsubtotal *				0	0	0 mg/l	17 mg/l	20 mg/l	1
** Subtotal **									8
** VIOLATIONS FOR NPDES: 21O00001									42
* VIOLATIONS FOR PARAMETER: COD									
21O00001	001 01/31/87	Teledyne Industries	COD	14	26		30 mg/l	100 mg/l	1
21O00001	001 07/31/87	Teledyne Industries	COD	9	16	0 mg/l	51 mg/l	105 mg/l	1
21O00001	001 07/31/87	Teledyne Industries	COD	14	26		30 mg/l	100 mg/l	1
* Subsubtotal *				11	24	0 mg/l	43 mg/l	76 mg/l	2
* VIOLATIONS FOR PARAMETER: OIL AND GREASE, TOTAL									
21O00001	001 06/30/88	Teledyne Industries	Oil and Grease, Total	0	0	0 mg/l	15 mg/l	20 mg/l	1
* Subsubtotal *				0	0	0 mg/l	18 mg/l	45 mg/l	1
** Subtotal **									1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
** VIOLATIONS FOR NPDES: 2IQ00012									3
* VIOLATIONS FOR PARAMETER: OIL AND GREASE, TOTAL									
2IQ00012	03/31/87	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l	1
	001							18 mg/l	
2IQ00012	04/30/87	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l	1
	001							59 mg/l	
2IQ00012	05/31/87	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l	1
	001							20 mg/l	
2IQ00012	02/29/88	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l	1
	001							11 mg/l	
2IQ00012	04/30/87	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l	1
	002							14 mg/l	
2IQ00012	08/31/87	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l	1
	002							12 mg/l	
2IQ00012	10/31/87	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l	1
	002							16 mg/l	
2IQ00012	01/31/88	Diversitech General Inc.	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l	1
	002							17 mg/l	
* Subsubtotal *									8
* VIOLATIONS FOR PARAMETER: PH									
2IQ00012	02/28/87	Diversitech General Inc.	pH	0	0	7 SU	0 SU	9 SU	1
	001					6 SU		6 SU	
* Subsubtotal *									1
** Subtotal **									9
** VIOLATIONS FOR NPDES: 2IS00008									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2IS00008	06/30/87	Reichert Stamping Company	Chlorine, Total Residual	0	0	10 mg/l	2 mg/l	3 mg/l	1
	002					0 mg/l	0 mg/l	10 mg/l	
2IS00008	07/31/87	Reichert Stamping Company	Chlorine, Total Residual	0	0	2 mg/l	2 mg/l	3 mg/l	1
	002					3 mg/l	0 mg/l	3 mg/l	
* Subsubtotal *									2
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2IS00008	02/29/88	Reichert Stamping Company	Solids, Total Suspended	0	0	0 mg/l	30 mg/l	45 mg/l	1
	002						35 mg/l	35 mg/l	
* Subsubtotal *									1
** Subtotal **									3
** VIOLATIONS FOR NPDES: 2IT00002									
* VIOLATIONS FOR PARAMETER: OIL AND GREASE									
2IT00002	06/30/88	The Chessie System	Oil and Grease	0	0	0 mg/l	0 mg/l	10 mg/l	1
	002							15 mg/l	
2IT00002	06/30/88	The Chessie System	Oil and Grease	0	0	0 mg/l	0 mg/l	10 mg/l	1
	004							14 mg/l	
* Subsubtotal *									2

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
* VIOLATIONS FOR PARAMETER: PH									
21T00002	12/31/87	The Chessie System	pH	0	0	7 SU	0 SU	9 SU	1
	002					6 SU		7 SU	
21T00002	12/31/87	The Chessie System	pH	0	0	7 SU	0 SU	9 SU	1
	004					6 SU		7 SU	
* Subsubtotal *									
** Subtotal **									2
** VIOLATIONS FOR NPDES: 21T00013									
* VIOLATIONS FOR PARAMETER: OIL AND GREASE, TOTAL									
21T00013	05/31/88	The Chessie System	Oil and Grease, Total	0	0	0 mg/l	0 mg/l	10 mg/l	1
	003							12 mg/l	
* Subsubtotal *									
									1
* VIOLATIONS FOR PARAMETER: PH									
21T00013	12/31/87	The Chessie System	pH	0	0	7 SU	0 SU	9 SU	1
	003					6 SU		6 SU	
21T00013	12/31/87	The Chessie System	pH	0	0	7 SU	0 SU	9 SU	1
	004					6 SU		6 SU	
21T00013	05/31/88	The Chessie System	pH	0	0	7 SU	0 SU	9 SU	1
	004					6 SU		6 SU	
21T00013	06/30/88	The Chessie System	pH	0	0	7 SU	0 SU	9 SU	1
	004					6 SU		6 SU	
21T00013	12/31/87	The Chessie System	pH	0	0	7 SU	0 SU	9 SU	1
	005					6 SU		6 SU	
21T00013	06/30/88	The Chessie System	pH	0	0	7 SU	0 SU	9 SU	1
	005					6 SU		6 SU	
* Subsubtotal *									
									6
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
21T00013	04/30/88	The Chessie System	Solids, Total Suspended	0	0	0 mg/l	0 mg/l	0 mg/l	1
	004				1				
21T00013	07/31/88	The Chessie System	Solids, Total Suspended	0	0	0 mg/l	0 mg/l	0 mg/l	1
	004								
21T00013	06/30/88	The Chessie System	Solids, Total Suspended	0	0	0 mg/l	0 mg/l	45 mg/l	1
	005							2440 mg/l	
* Subsubtotal *									
									3
** Subtotal **									10
** VIOLATIONS FOR NPDES: 21W00010									
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
21W00010	01/31/87	Bowling Green Water Plant	Solids, Total Suspended	0	0	0 mg/l	15 mg/l	20 mg/l	1
	001						13593 mg/l	14230 mg/l	
21W00010	02/28/87	Bowling Green Water Plant	Solids, Total Suspended	0	0	0 mg/l	15 mg/l	20 mg/l	1
	001						13760 mg/l	14100 mg/l	
21W00010	03/31/87	Bowling Green Water Plant	Solids, Total Suspended	0	0	0 mg/l	15 mg/l	20 mg/l	1
	001						13415 mg/l	14100 mg/l	
21W00010	04/30/87	Bowling Green Water Plant	Solids, Total Suspended	0	0	0 mg/l	15 mg/l	20 mg/l	1
	001						13216 mg/l	13570 mg/l	
21W00010	05/31/87	Bowling Green Water Plant	Solids, Total Suspended	0	0	0 mg/l	15 mg/l	20 mg/l	1

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2IW00010	06/30/87	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	13213 mg/l 15 mg/l	13670 mg/l 20 mg/l	1
2IW00010	07/31/87	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	13395 mg/l 15 mg/l	13700 mg/l 20 mg/l	1
2IW00010	08/31/87	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	13243 mg/l 15 mg/l	13870 mg/l 20 mg/l	1
2IW00010	09/30/87	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	13228 mg/l 15 mg/l	13560 mg/l 20 mg/l	1
2IW00010	10/31/87	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	13078 mg/l 15 mg/l	13650 mg/l 20 mg/l	1
2IW00010	11/30/87	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	42965 mg/l 15 mg/l	13245 mg/l 20 mg/l	1
2IW00010	12/31/87	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	13158 mg/l 15 mg/l	13590 mg/l 20 mg/l	1
2IW00010	01/31/88	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	13082 mg/l 15 mg/l	13750 mg/l 20 mg/l	1
2IW00010	02/29/88	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	13125 mg/l 15 mg/l	13680 mg/l 20 mg/l	1
2IW00010	03/31/88	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	13235 mg/l 15 mg/l	13690 mg/l 20 mg/l	1
2IW00010	04/30/88	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	12992 mg/l 15 mg/l	13790 mg/l 20 mg/l	1
2IW00010	05/31/88	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	13035 mg/l 15 mg/l	13300 mg/l 20 mg/l	1
2IW00010	06/30/88	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	13270 mg/l 15 mg/l	13890 mg/l 20 mg/l	1
2IW00010	07/31/88	Bowling Green Water Plant 001	Solids, Total Suspended	0	0	0 mg/l	13295 mg/l 15 mg/l	13590 mg/l 20 mg/l	1
* Subsubtotal *				0	0	0 mg/l	13355 mg/l	13970 mg/l	19
** Subtotal **									19
** VIOLATIONS FOR NPDES: 2PA00026									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PA00026	03/31/87	Village of Haskins 001	BOD 5	4	6		10 mg/l	15 mg/l	1
2PA00026	07/31/87	Village of Haskins 001	BOD 5	3	4	0 mg/l	11 mg/l	18 mg/l	1
2PA00026	07/31/87	Village of Haskins 001	BOD 5	4	6		10 mg/l	15 mg/l	1
2PA00026	07/31/87	Village of Haskins 001	BOD 5	3	10	0 mg/l	4 mg/l	7 mg/l	1
* Subsubtotal *									2
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PA00026	05/31/88	Village of Haskins 001	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
* Subsubtotal *							1000000 SU	1000000 SU	1
* VIOLATIONS FOR PARAMETER: PH									
2PA00026	05/31/87	Village of Haskins 001	pH	0	0	7 SU	0 SU	9 SU	1
2PA00026	05/31/87	Village of Haskins 001	pH	0	0	6 SU	0 SU	7 SU	1
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PA00026	07/31/87	Village of Haskins	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1

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	001			3	10	0 mg/l	4 mg/l	7 mg/l	
* Subsubtotal *									1
** Subtotal **									5
** VIOLATIONS FOR NPDES: 2PB00007									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PB00007	01/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			56	75	0 mg/l	36 mg/l	45 mg/l	
2PB00007	02/28/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			60	69	0 mg/l	46 mg/l	60 mg/l	
2PB00007	03/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			67	80	0 mg/l	42 mg/l	52 mg/l	
2PB00007	04/30/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			62	84	0 mg/l	27 mg/l	33 mg/l	
2PB00007	05/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			49	58	0 mg/l	39 mg/l	42 mg/l	
2PB00007	06/30/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			28	51	0 mg/l	18 mg/l	26 mg/l	
2PB00007	07/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			14	51	0 mg/l	10 mg/l	24 mg/l	
2PB00007	08/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			14	72	0 mg/l	8 mg/l	20 mg/l	
2PB00007	09/30/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			54	81	0 mg/l	47 mg/l	70 mg/l	
2PB00007	11/30/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			69	436	0 mg/l	61 mg/l	367 mg/l	
2PB00007	12/31/87	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			60	67	0 mg/l	25 mg/l	28 mg/l	
2PB00007	01/31/88	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			44	64	0 mg/l	32 mg/l	45 mg/l	
2PB00007	02/29/88	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			46	63	0 mg/l	29 mg/l	38 mg/l	
2PB00007	03/31/88	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			61	176	0 mg/l	32 mg/l	67 mg/l	
2PB00007	04/30/88	South Shore Park WWTP	BOD 5	18	26		20 mg/l	30 mg/l	1
	001			45	70	0 mg/l	29 mg/l	37 mg/l	
* Subsubtotal *									15
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PB00007	05/31/87	South Shore Park WWTP	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	001							1 mg/l	
2PB00007	06/30/87	South Shore Park WWTP	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	001							1 mg/l	
2PB00007	07/31/87	South Shore Park WWTP	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	001							1 mg/l	
2PB00007	08/31/87	South Shore Park WWTP	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	001							440 mg/l	
2PB00007	06/30/88	South Shore Park WWTP	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	001							1 mg/l	
* Subsubtotal *									5
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PB00007	05/31/87	South Shore Park WWTP	Fecal Coliform				1000 SU	2000 SU	1

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2PB00007	06/30/87	South Shore Park WWTP	Fecal Coliform	0	0	0 SU	588695 SU	349428 SU	1
2PB00007	07/31/87	South Shore Park WWTP	Fecal Coliform	0	0	0 SU	1000000 SU	1000000 SU	1
2PB00007	08/31/87	South Shore Park WWTP	Fecal Coliform	0	0	0 SU	2365 SU	189736 SU	1
2PB00007	09/30/87	South Shore Park WWTP	Fecal Coliform	0	0	0 SU	3961 SU	69282 SU	1
2PB00007	10/31/87	South Shore Park WWTP	Fecal Coliform	0	0	0 SU	439364 SU	4300002 SU	1
2PB00007	05/31/88	South Shore Park WWTP	Fecal Coliform	0	0	0 SU	180 SU	7007 SU	1
2PB00007	06/30/88	South Shore Park WWTP	Fecal Coliform	0	0	0 SU	4255 SU	36660 SU	1
2PB00007	07/31/88	South Shore Park WWTP	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
* Subsubtotal *									9
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PB00007	01/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30		25 mg/l	35 mg/l	1
2PB00007	02/28/87	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	03/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	04/30/87	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	05/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	06/30/87	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	07/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	09/30/87	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	10/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	11/30/87	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	12/31/87	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	01/31/88	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	02/29/88	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	03/31/88	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
2PB00007	04/30/88	South Shore Park WWTP	Solids, Total Suspended	22	30	0 mg/l	25 mg/l	35 mg/l	1
* Subsubtotal *									15
** Subtotal **									44

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
** VIOLATIONS FOR NPDES: 2PB00062									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PB00062	05/31/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			41	47	0 mg/l	41 mg/l	48 mg/l	
2PB00062	06/30/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			42	61	0 mg/l	36 mg/l	42 mg/l	
2PB00062	08/31/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			40	53	0 mg/l	34 mg/l	37 mg/l	
2PB00062	09/30/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			34	38	0 mg/l	36 mg/l	38 mg/l	
2PB00062	10/31/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			30	42	0 mg/l	37 mg/l	44 mg/l	
2PB00062	11/30/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			22	24	0 mg/l	36 mg/l	36 mg/l	
2PB00062	12/31/87	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			44	60	0 mg/l	33 mg/l	39 mg/l	
2PB00062	01/31/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			30	33	0 mg/l	33 mg/l	35 mg/l	
2PB00062	02/29/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			43	56	0 mg/l	31 mg/l	34 mg/l	
2PB00062	03/31/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			49	56	0 mg/l	38 mg/l	42 mg/l	
2PB00062	04/30/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			434	54	0 mg/l	35 mg/l	39 mg/l	
2PB00062	05/31/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			44	54	0 mg/l	35 mg/l	39 mg/l	
2PB00062	05/31/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			49	50	0 mg/l	43 mg/l	44 mg/l	
2PB00062	06/30/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			28	33	0 mg/l	45 mg/l	48 mg/l	
2PB00062	07/31/88	Village of Whitehouse	BOD 5	40	60		30 mg/l	45 mg/l	1
	001			42	45	0 mg/l	42 mg/l	46 mg/l	
* Subsubtotal *									15
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PB00062	05/31/87	Village of Whitehouse	Chlorine, Total Residual	0	0	1 mg/l	0 mg/l	1 mg/l	1
	001								
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PB00062	05/31/87	Village of Whitehouse	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
	001						1000000 SU	10000000 SU	
2PB00062	06/30/87	Village of Whitehouse	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
	001						1000000 SU	10000000 SU	
2PB00062	07/31/87	Village of Whitehouse	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
	001						1000000 SU	10000000 SU	
2PB00062	09/30/87	Village of Whitehouse	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
	001						1000000 SU	10000000 SU	
2PB00062	10/31/87	Village of Whitehouse	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
	001						1000000 SU	10000000 SU	
* Subsubtotal *									5
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PB00062	05/31/87	Village of Whitehouse	Solids, Total Suspended	40	60		30 mg/l	45 mg/l	1
	001			39	45	0 mg/l	39 mg/l	42 mg/l	

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2PB00062	06/30/87	Village of Whitehouse 001	Solids, Total Suspended	40	60		30 mg/l	45 mg/l	1
2PB00062	07/31/87	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	37 mg/l	45 mg/l	1
2PB00062	08/31/87	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	32 mg/l	45 mg/l	1
2PB00062	09/30/87	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	34 mg/l	45 mg/l	1
2PB00062	10/31/87	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	30 mg/l	45 mg/l	1
2PB00062	11/30/87	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	33 mg/l	45 mg/l	1
2PB00062	12/31/87	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	30 mg/l	45 mg/l	1
2PB00062	01/31/88	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	31 mg/l	45 mg/l	1
2PB00062	02/29/88	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	32 mg/l	45 mg/l	1
2PB00062	03/31/88	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	30 mg/l	45 mg/l	1
2PB00062	04/30/88	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	37 mg/l	45 mg/l	1
2PB00062	05/31/88	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	30 mg/l	45 mg/l	1
2PB00062	06/30/88	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	42 mg/l	45 mg/l	1
2PB00062	07/31/88	Village of Whitehouse 001	Solids, Total Suspended	40	60	0 mg/l	30 mg/l	45 mg/l	1
* Subsubtotal *				39	48	0 mg/l	38 mg/l	44 mg/l	
** Subtotal **									15
									36
** VIOLATIONS FOR NPDES: 2PD00002									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PD00002	04/30/87	Perrysburg, City of 001	BOD 5	522	678		50 mg/l	65 mg/l	1
2PD00002	05/31/87	Perrysburg, City of 001	BOD 5	565	687	1 mg/l	44 mg/l	60 mg/l	1
2PD00002	08/31/87	Perrysburg, City of 001	BOD 5	522	678	1 mg/l	50 mg/l	65 mg/l	1
2PD00002	09/30/87	Perrysburg, City of 001	BOD 5	570	633	1 mg/l	53 mg/l	72 mg/l	1
2PD00002	10/31/87	Perrysburg, City of 001	BOD 5	522	678	1 mg/l	50 mg/l	65 mg/l	1
2PD00002	09/30/87	Perrysburg, City of 001	BOD 5	585	1256	1 mg/l	56 mg/l	94 mg/l	1
2PD00002	10/31/87	Perrysburg, City of 001	BOD 5	522	678	0 mg/l	50 mg/l	65 mg/l	1
2PD00002	11/30/87	Perrysburg, City of 001	BOD 5	504	640	0 mg/l	50 mg/l	77 mg/l	1
2PD00002	11/30/87	Perrysburg, City of 001	BOD 5	522	678	0 mg/l	56 mg/l	65 mg/l	1
2PD00002	11/30/87	Perrysburg, City of 001	BOD 5	478	543	0 mg/l	56 mg/l	63 mg/l	1
2PD00002	11/30/87	Perrysburg, City of 001	BOD 5	522	678	0 mg/l	50 mg/l	65 mg/l	1
* Subsubtotal *				437	893	0 mg/l	43 mg/l	86 mg/l	
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PD00002	01/31/87	Perrysburg, City of 001	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
2PD00002	05/31/87	Perrysburg, City of 001	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
2PD00002	06/30/87	Perrysburg, City of 001	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1

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2PD00002	01/31/88	Perrysburg, City of	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
* Subsubtotal *									4
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PD00002	02/28/87	Perrysburg, City of	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
2PD00002	03/31/87	Perrysburg, City of	Fecal Coliform	0	0	0 SU	3156 SU	9794 SU	1
2PD00002	04/30/87	Perrysburg, City of	Fecal Coliform	0	0	0 SU	1000000 SU	10000000 SU	1
2PD00002	05/31/87	Perrysburg, City of	Fecal Coliform	0	0	0 SU	1000000 SU	10000000 SU	1
2PD00002	06/30/87	Perrysburg, City of	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
2PD00002	10/31/87	Perrysburg, City of	Fecal Coliform	0	0	0 SU	1287 SU	1978 SU	1
2PD00002	12/31/87	Perrysburg, City of	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
2PD00002	02/29/88	Perrysburg, City of	Fecal Coliform	0	0	0 SU	2522 SU	21037 SU	1
2PD00002	03/31/88	Perrysburg, City of	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
2PD00002	04/30/88	Perrysburg, City of	Fecal Coliform	0	0	0 SU	2670 SU	11505 SU	1
* Subsubtotal *									10
* VIOLATIONS FOR PARAMETER: OIL AND GREASE									
2PD00002	02/28/87	Perrysburg, City of	Oil and Grease	0	0	0 mg/l	0 mg/l	5 mg/l	1
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: PHOSPHORUS, TOTAL									
2PD00002	07/31/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
2PD00002	01/31/87	Perrysburg, City of	Phosphorus, Total	8	13	0 mg/l	1 mg/l	2 mg/l	1
2PD00002	02/28/87	Perrysburg, City of	Phosphorus, Total	10	16	0 mg/l	1 mg/l	2 mg/l	1
2PD00002	03/31/87	Perrysburg, City of	Phosphorus, Total	26	35	0 mg/l	2 mg/l	3 mg/l	1
2PD00002	04/30/87	Perrysburg, City of	Phosphorus, Total	10	16	0 mg/l	1 mg/l	2 mg/l	1
2PD00002	05/31/87	Perrysburg, City of	Phosphorus, Total	24	39	0 mg/l	2 mg/l	3 mg/l	1
2PD00002	06/30/87	Perrysburg, City of	Phosphorus, Total	10	16	0 mg/l	1 mg/l	2 mg/l	1
2PD00002	07/31/87	Perrysburg, City of	Phosphorus, Total	31	34	0 mg/l	2 mg/l	3 mg/l	1
2PD00002	08/31/87	Perrysburg, City of	Phosphorus, Total	10	16	0 mg/l	1 mg/l	2 mg/l	1
2PD00002	09/30/87	Perrysburg, City of	Phosphorus, Total	24	33	0 mg/l	2 mg/l	3 mg/l	1
2PD00002	10/31/87	Perrysburg, City of	Phosphorus, Total	10	16	0 mg/l	1 mg/l	2 mg/l	1
2PD00002	01/31/87	Perrysburg, City of	Phosphorus, Total	36	48	0 mg/l	3 mg/l	4 mg/l	1
2PD00002	02/28/87	Perrysburg, City of	Phosphorus, Total	10	16	0 mg/l	1 mg/l	2 mg/l	1
2PD00002	03/31/87	Perrysburg, City of	Phosphorus, Total	10	16	0 mg/l	1 mg/l	2 mg/l	1
2PD00002	04/30/87	Perrysburg, City of	Phosphorus, Total	18	36	0 mg/l	2 mg/l	2 mg/l	1
2PD00002	05/31/87	Perrysburg, City of	Phosphorus, Total	10	16	0 mg/l	1 mg/l	2 mg/l	1
2PD00002	06/30/87	Perrysburg, City of	Phosphorus, Total	32	95	0 mg/l	3 mg/l	6 mg/l	1
2PD00002	07/31/87	Perrysburg, City of	Phosphorus, Total	10	16	0 mg/l	1 mg/l	2 mg/l	1
2PD00002	08/31/87	Perrysburg, City of	Phosphorus, Total	30	58	0 mg/l	3 mg/l	5 mg/l	1
2PD00002	09/30/87	Perrysburg, City of	Phosphorus, Total	10	16	0 mg/l	1 mg/l	2 mg/l	1
2PD00002	10/31/87	Perrysburg, City of	Phosphorus, Total	17	37	0 mg/l	2 mg/l	3 mg/l	1

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2PD00002	11/30/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			32	61	0 mg/l	3 mg/l	6 mg/l	
2PD00002	12/31/87	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			26	41	0 mg/l	1 mg/l	2 mg/l	
2PD00002	01/31/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			28	42	0 mg/l	2 mg/l	3 mg/l	
2PD00002	02/29/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			26	36	0 mg/l	2 mg/l	2 mg/l	
2PD00002	03/31/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			18	21	0 mg/l	1 mg/l	2 mg/l	
2PD00002	04/30/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			23	38	0 mg/l	2 mg/l	2 mg/l	
2PD00002	05/31/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			35	48	0 mg/l	4 mg/l	6 mg/l	
2PD00002	06/30/88	Perrysburg, City of	Phosphorus, Total	10	16		1 mg/l	2 mg/l	1
	001			20	26	0 mg/l	3 mg/l	3 mg/l	
* Subsubtotal *									
19									
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PD00002	01/31/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			491	927	0 mg/l	43 mg/l	58 mg/l	
2PD00002	02/28/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			440	1051	0 mg/l	33 mg/l	74 mg/l	
2PD00002	03/31/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			772	1161	0 mg/l	56 mg/l	80 mg/l	
2PD00002	04/30/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			413	826	0 mg/l	28 mg/l	42 mg/l	
2PD00002	05/31/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			700	1091	0 mg/l	59 mg/l	76 mg/l	
2PD00002	06/30/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			459	779	0 mg/l	38 mg/l	65 mg/l	
2PD00002	08/31/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			721	2270	0 mg/l	57 mg/l	146 mg/l	
2PD00002	09/30/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			737	1236	0 mg/l	80 mg/l	99 mg/l	
2PD00002	11/30/87	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			467	1548	0 mg/l	42 mg/l	141 mg/l	
2PD00002	01/31/88	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			437	1106	0 mg/l	28 mg/l	65 mg/l	
2PD00002	02/29/88	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			427	850	0 mg/l	25 mg/l	47 mg/l	
2PD00002	04/30/88	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			267	735	0 mg/l	18 mg/l	44 mg/l	
2PD00002	05/31/88	Perrysburg, City of	Solids, Total Suspended	522	678		50 mg/l	65 mg/l	1
	001			538	830	0 mg/l	63 mg/l	97 mg/l	
* Subsubtotal *									
13									
** Subtotal **									
53									
** VIOLATIONS FOR NPDES: 2PD00035									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PD00035	05/31/87	DuPont Road WWTP	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	001							1 mg/l	
* Subsubtotal *									
1									

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* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PD00035	07/31/87	DuPont Road WWT	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
	001						1000000 SU	100000000 SU	
2PD00035	08/31/87	DuPont Road WWT	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
	001						1000000 SU	100000000 SU	
* Subsubtotal *									2
* VIOLATIONS FOR PARAMETER: PHENOLICS, TOTAL									
2PD00035	04/30/87	DuPont Road WWT	Phenolics, Total	0	0	0 µg/l	0 µg/l	27 µg/l	1
	001							60 µg/l	
2PD00035	06/30/88	DuPont Road WWT	Phenolics, Total	0	0	0 µg/l	0 µg/l	27 µg/l	1
	001							110 µg/l	
* Subsubtotal *									2
* VIOLATIONS FOR PARAMETER: PHOSPHORUS, TOTAL									
2PD00035	07/31/87	DuPont Road WWT	Phosphorus, Total	31	46		1 mg/l	2 mg/l	1
	001			15	26	0 mg/l	1 mg/l	1 mg/l	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PD00035	06/30/87	DuPont Road WWT	Solids, Total Suspended	607	910		20 mg/l	30 mg/l	1
	001			254	381	0 mg/l	15 mg/l	33 mg/l	
* Subsubtotal *									1
** Subtotal **									7
** VIOLATIONS FOR NPDES: 2PF00000									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PF00000	01/31/88	Toledo, City of	BOD 5	19713	29569		40 mg/l	60 mg/l	1
	001			13201	13446	0 mg/l	49 mg/l	55 mg/l	
2PF00000	02/29/88	Toledo, City of	BOD 5	19713	29569		40 mg/l	60 mg/l	1
	001			19232	27425	0 mg/l	53 mg/l	66 mg/l	
2PF00000	03/31/88	Toledo, City of	BOD 5	19713	29569		40 mg/l	60 mg/l	1
	001			15442	23800	0 mg/l	40 mg/l	63 mg/l	
* Subsubtotal *									3
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PF00000	04/30/87	Toledo, City of	Chlorine, Total Residual	0	0	21 mg/l	0 mg/l	1 mg/l	1
	001							149 mg/l	
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PF00000	04/30/87	Toledo, City of	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
	001						1000000 SU	100000000 SU	
2PF00000	05/31/87	Toledo, City of	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
	001						1000000 SU	100000000 SU	
2PF00000	06/30/87	Toledo, City of	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
	001						1000000 SU	100000000 SU	
2PF00000	07/31/87	Toledo, City of	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
	001						1000000 SU	100000000 SU	
2PF00000	08/31/87	Toledo, City of	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2PF00000	09/30/87	Toledo, City of	Fecal Coliform	0	0	0 SU	1000000 SU	100000000 SU	1
2PF00000	10/31/87	Toledo, City of	Fecal Coliform	0	0	0 SU	1000000 SU	100000000 SU	1
2PF00000	04/30/88	Toledo, City of	Fecal Coliform	0	0	0 SU	1000000 SU	100000000 SU	1
2PF00000	05/31/88	Toledo, City of	Fecal Coliform	0	0	0 SU	1000000 SU	100000000 SU	1
2PF00000	07/31/88	Toledo, City of	Fecal Coliform	0	0	0 SU	1000000 SU	100000000 SU	1
* Subsubtotal *									10
* VIOLATIONS FOR PARAMETER: MERCURY, AS HG									
2PF00000	07/31/88	Toledo, City of	Mercury, as Hg	0	0	0 µg/l	0 µg/l	0 µg/l	1
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: PH									
2PF00000	02/29/88	Toledo, City of	pH	0	0	7 SU 6 SU	0 SU	9 SU 8 SU	1
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: PHENOLICS, TOTAL									
2PF00000	07/31/88	Toledo, City of	Phenolics, Total	0	0	0 µg/l	0 µg/l	16 µg/l 41 µg/l	1
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: PHOSPHORUS, TOTAL									
2PF00000	01/31/87	Toledo, City of	Phosphorus, Total	493	740		1 mg/l	2 mg/l	1
2PF00000	02/28/87	Toledo, City of	Phosphorus, Total	493	740	0 mg/l	1 mg/l	2 mg/l	1
2PF00000	03/31/87	Toledo, City of	Phosphorus, Total	493	740	0 mg/l	1 mg/l	2 mg/l	1
2PF00000	04/30/87	Toledo, City of	Phosphorus, Total	493	740	0 mg/l	2 mg/l	2 mg/l	1
2PF00000	06/30/87	Toledo, City of	Phosphorus, Total	493	740	0 mg/l	1 mg/l	2 mg/l	1
2PF00000	07/31/87	Toledo, City of	Phosphorus, Total	493	740	0 mg/l	1 mg/l	3 mg/l	1
2PF00000	08/31/87	Toledo, City of	Phosphorus, Total	493	740	0 mg/l	2 mg/l	3 mg/l	1
2PF00000	09/30/87	Toledo, City of	Phosphorus, Total	493	740	0 mg/l	2 mg/l	3 mg/l	1
2PF00000	10/31/87	Toledo, City of	Phosphorus, Total	493	740	0 mg/l	1 mg/l	2 mg/l	1
2PF00000	12/31/87	Toledo, City of	Phosphorus, Total	493	740	0 mg/l	1 mg/l	2 mg/l	1
2PF00000	01/31/88	Toledo, City of	Phosphorus, Total	493	740	0 mg/l	1 mg/l	2 mg/l	1
2PF00000	02/29/88	Toledo, City of	Phosphorus, Total	493	740	0 mg/l	2 mg/l	2 mg/l	1
2PF00000	03/31/88	Toledo, City of	Phosphorus, Total	493	740	0 mg/l	1 mg/l	2 mg/l	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2PF00000	001 05/31/88	Toledo, City of	Phosphorus, Total	492 493	798 740	0 mg/l	1 mg/l 1 mg/l	2 mg/l 2 mg/l	1
2PF00000	001 06/30/88	Toledo, City of	Phosphorus, Total	218 493	413 740	0 mg/l	1 mg/l 1 mg/l	2 mg/l 2 mg/l	1
* Subsubtotal *				281	396	0 mg/l	1 mg/l	2 mg/l	15
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PF00000	001 03/31/87	Toledo, City of	Solids, Total Suspended	29569 34359	44354 43934	0 mg/l	60 mg/l 110 mg/l	90 mg/l 124 mg/l	1
2PF00000	001 04/30/87	Toledo, City of	Solids, Total Suspended	29569 20316	44354 57101	0 mg/l	60 mg/l 50 mg/l	90 mg/l 137 mg/l	1
2PF00000	001 06/30/87	Toledo, City of	Solids, Total Suspended	29569 20351	44354 33570	0 mg/l	60 mg/l 65 mg/l	90 mg/l 134 mg/l	1
2PF00000	001 07/31/87	Toledo, City of	Solids, Total Suspended	29569 19112	44354 28208	0 mg/l	60 mg/l 77 mg/l	90 mg/l 119 mg/l	1
2PF00000	001 08/31/87	Toledo, City of	Solids, Total Suspended	29569 18842	44354 22947	0 mg/l	60 mg/l 79 mg/l	90 mg/l 99 mg/l	1
2PF00000	001 12/31/87	Toledo, City of	Solids, Total Suspended	29569 23438	44354 43898	0 mg/l	60 mg/l 62 mg/l	90 mg/l 97 mg/l	1
2PF00000	001 01/31/88	Toledo, City of	Solids, Total Suspended	29569 21743	44354 22426	0 mg/l	60 mg/l 80 mg/l	90 mg/l 81 mg/l	1
2PF00000	001 02/29/88	Toledo, City of	Solids, Total Suspended	29569 30351	44354 57789	0 mg/l	60 mg/l 78 mg/l	90 mg/l 117 mg/l	1
2PF00000	001 03/31/88	Toledo, City of	Solids, Total Suspended	29569 34598	44354 42243	0 mg/l	60 mg/l 94 mg/l	90 mg/l 111 mg/l	1
2PF00000	001 04/30/88	Toledo, City of	Solids, Total Suspended	29569 20653	44354 28330	0 mg/l	60 mg/l 62 mg/l	90 mg/l 101 mg/l	1
* Subsubtotal *									10
** Subtotal **									42
** VIOLATIONS FOR NPDES: 2PG00002									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PG00002	001 01/31/87	Lucas County Bentbrook Farms	BOD 5	4 63	6 83	0 mg/l	18 mg/l 215 mg/l	25 mg/l 300 mg/l	1
2PG00002	001 02/28/87	Lucas County Bentbrook Farms	BOD 5	4 20	6 28	0 mg/l	18 mg/l 63 mg/l	25 mg/l 96 mg/l	1
2PG00002	001 03/31/87	Lucas County Bentbrook Farms	BOD 5	4 9	6 12	0 mg/l	18 mg/l 27 mg/l	25 mg/l 44 mg/l	1
2PG00002	001 04/30/87	Lucas County Bentbrook Farms	BOD 5	4 73	6 134	0 mg/l	18 mg/l 146 mg/l	25 mg/l 300 mg/l	1
2PG00002	001 06/30/87	Lucas County Bentbrook Farms	BOD 5	4 4	6 6	0 mg/l	18 mg/l 11 mg/l	25 mg/l 17 mg/l	1
2PG00002	001 07/31/87	Lucas County Bentbrook Farms	BOD 5	4 4	6 6	0 mg/l	18 mg/l 18 mg/l	25 mg/l 25 mg/l	1
2PG00002	001 10/31/87	Lucas County Bentbrook Farms	BOD 5	5 4	10 6	0 mg/l	11 mg/l 18 mg/l	16 mg/l 25 mg/l	1
2PG00002	001 11/30/87	Lucas County Bentbrook Farms	BOD 5	4 7	6 9	0 mg/l	18 mg/l 25 mg/l	25 mg/l 30 mg/l	1
2PG00002	001 12/31/87	Lucas County Bentbrook Farms	BOD 5	4 5	6 6	0 mg/l	25 mg/l 13 mg/l	30 mg/l 13 mg/l	1
2PG00002	001 01/31/88	Lucas County Bentbrook Farms	BOD 5	4 7	6 12	0 mg/l	18 mg/l 19 mg/l	25 mg/l 26 mg/l	1
2PG00002	001 02/29/88	Lucas County Bentbrook Farms	BOD 5	4	6	0 mg/l	18 mg/l	25 mg/l	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2PG00002	03/31/88	Lucas County Bentbrook Farms	BOD 5	12 4	24 6	0 mg/l	32 mg/l 18 mg/l	77 mg/l 25 mg/l	1
2PG00002	04/30/88	Lucas County Bentbrook Farms	BOD 5	5 4	5 6	0 mg/l	13 mg/l 18 mg/l	16 mg/l 25 mg/l	1
2PG00002	05/31/88	Lucas County Bentbrook Farms	BOD 5	4 4	6 6	0 mg/l	12 mg/l 18 mg/l	19 mg/l 25 mg/l	1
2PG00002	06/30/88	Lucas County Bentbrook Farms	BOD 5	11 4	18 6	0 mg/l	44 mg/l 18 mg/l	70 mg/l 25 mg/l	1
* Subsubtotal *				4	3	0 mg/l	24 mg/l	12 mg/l	
15									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PG00002	05/31/87	Lucas County Bentbrook Farms	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PG00002	06/30/87	Lucas County Bentbrook Farms	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PG00002	07/31/87	Lucas County Bentbrook Farms	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PG00002	08/31/87	Lucas County Bentbrook Farms	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PG00002	09/30/87	Lucas County Bentbrook Farms	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PG00002	10/31/87	Lucas County Bentbrook Farms	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
* Subsubtotal *									
6									
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PG00002	05/31/87	Lucas County Bentbrook Farms	Fecal Coliform	0	0	0 SU	200 SU 1261 SU	400 SU 5300 SU	1
2PG00002	06/30/87	Lucas County Bentbrook Farms	Fecal Coliform	0	0	0 SU	200 SU 11994 SU	400 SU 25800 SU	1
2PG00002	07/31/87	Lucas County Bentbrook Farms	Fecal Coliform	0	0	0 SU	200 SU 1058 SU	400 SU 370 SU	1
2PG00002	08/31/87	Lucas County Bentbrook Farms	Fecal Coliform	0	0	0 SU	200 SU 993 SU	400 SU 1600 SU	1
2PG00002	09/30/87	Lucas County Bentbrook Farms	Fecal Coliform	0	0	0 SU	200 SU 1522 SU	400 SU 13500 SU	1
2PG00002	10/31/87	Lucas County Bentbrook Farms	Fecal Coliform	0	0	0 SU	200 SU 146325 SU	400 SU 292000 SU	1
2PG00002	05/31/88	Lucas County Bentbrook Farms	Fecal Coliform	0	0	0 SU	200 SU 10000 SU	400 SU 10000 SU	1
2PG00002	06/30/88	Lucas County Bentbrook Farms	Fecal Coliform	0	0	0 SU	200 SU 10275 SU	400 SU 34000 SU	1
* Subsubtotal *									
8									
* VIOLATIONS FOR PARAMETER: FLOW, TOTAL									
2PG00002	10/31/87	Lucas County Bentbrook Farms	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1
2PG00002	01/31/88	Lucas County Bentbrook Farms	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1
2PG00002	02/29/88	Lucas County Bentbrook Farms	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1
2PG00002	03/31/88	Lucas County Bentbrook Farms	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1
2PG00002	04/30/88	Lucas County Bentbrook Farms	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2PG00002	001 05/31/88	Lucas County Bentbrook Farms	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1
2PG00002	001 06/30/88	Lucas County Bentbrook Farms	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1
* Subsubtotal *									
7									
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2PG00002	001 10/31/87	Lucas County Bentbrook Farms	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
2PG00002	001 11/30/87	Lucas County Bentbrook Farms	Oxygen, Dissolved	0	0	2 mg/l	0 mg/l	0 mg/l	1
2PG00002	001 01/31/88	Lucas County Bentbrook Farms	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
2PG00002	001 04/30/88	Lucas County Bentbrook Farms	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
2PG00002	001 05/31/88	Lucas County Bentbrook Farms	Oxygen, Dissolved	0	0	1 mg/l	0 mg/l	0 mg/l	1
2PG00002	001 06/30/88	Lucas County Bentbrook Farms	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
2PG00002	001 06/30/88	Lucas County Bentbrook Farms	Oxygen, Dissolved	0	0	4 mg/l	0 mg/l	0 mg/l	1
2PG00002	001 06/30/88	Lucas County Bentbrook Farms	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
* Subsubtotal *									
6									
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PG00002	001 01/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8		20 mg/l	35 mg/l	1
2PG00002	001 02/28/87	Lucas County Bentbrook Farms	Solids, Total Suspended	67	84	0 mg/l	218 mg/l	252 mg/l	1
2PG00002	001 03/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 04/30/87	Lucas County Bentbrook Farms	Solids, Total Suspended	27	40	0 mg/l	86 mg/l	120 mg/l	1
2PG00002	001 04/30/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 04/30/87	Lucas County Bentbrook Farms	Solids, Total Suspended	10	17	0 mg/l	32 mg/l	62 mg/l	1
2PG00002	001 06/30/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 06/30/87	Lucas County Bentbrook Farms	Solids, Total Suspended	127	239	0 mg/l	254 mg/l	536 mg/l	1
2PG00002	001 06/30/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 07/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	4	8	0 mg/l	12 mg/l	20 mg/l	1
2PG00002	001 07/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 10/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	8	16	0 mg/l	17 mg/l	26 mg/l	1
2PG00002	001 10/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 11/30/87	Lucas County Bentbrook Farms	Solids, Total Suspended	10	13	0 mg/l	33 mg/l	40 mg/l	1
2PG00002	001 11/30/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 12/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	9	17	0 mg/l	29 mg/l	40 mg/l	1
2PG00002	001 12/31/87	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 01/31/88	Lucas County Bentbrook Farms	Solids, Total Suspended	6	11	0 mg/l	15 mg/l	19 mg/l	1
2PG00002	001 01/31/88	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 02/29/88	Lucas County Bentbrook Farms	Solids, Total Suspended	9	19	0 mg/l	22 mg/l	43 mg/l	1
2PG00002	001 02/29/88	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 03/31/88	Lucas County Bentbrook Farms	Solids, Total Suspended	23	46	0 mg/l	61 mg/l	148 mg/l	1
2PG00002	001 03/31/88	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 04/30/88	Lucas County Bentbrook Farms	Solids, Total Suspended	9	8	0 mg/l	24 mg/l	25 mg/l	1
2PG00002	001 04/30/88	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 05/31/88	Lucas County Bentbrook Farms	Solids, Total Suspended	7	10	0 mg/l	20 mg/l	32 mg/l	1
2PG00002	001 05/31/88	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 06/30/88	Lucas County Bentbrook Farms	Solids, Total Suspended	15	26	0 mg/l	60 mg/l	102 mg/l	1
2PG00002	001 06/30/88	Lucas County Bentbrook Farms	Solids, Total Suspended	5	8	0 mg/l	20 mg/l	35 mg/l	1
2PG00002	001 06/30/88	Lucas County Bentbrook Farms	Solids, Total Suspended	16	2	0 mg/l	92 mg/l	9 mg/l	1
* Subsubtotal *									
** Subtotal **									
15									

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
** VIOLATIONS FOR NPDES: 2PH00000									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PH00000	06/30/88	Fuller's Creekside Estates	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	001							1 mg/l	
* Subsubtotal *									
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2PH00000	05/31/88	Fuller's Creekside Estates	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					1 mg/l		0 mg/l	
2PH00000	06/30/88	Fuller's Creekside Estates	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					2 mg/l		0 mg/l	
* Subsubtotal *									
* VIOLATIONS FOR PARAMETER: PH									
2PH00000	06/30/88	Fuller's Creekside Estates	pH	0	0	7 SU	0 SU	9 SU	1
	001					6 SU		7 SU	
* Subsubtotal *									
** Subtotal **									
** VIOLATIONS FOR NPDES: 2PH00004									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PH00004	01/31/87	Lincoln Green	BOD 5	13	23		20 mg/l	35 mg/l	1
	001			29	43		45 mg/l	108 mg/l	
2PH00004	02/28/87	Lincoln Green	BOD 5	13	23	0 mg/l	20 mg/l	35 mg/l	1
	001			70	268		154 mg/l	594 mg/l	
2PH00004	04/30/87	Lincoln Green	BOD 5	13	23	0 mg/l	20 mg/l	35 mg/l	1
	001			13	55		27 mg/l	114 mg/l	
* Subsubtotal *									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PH00004	05/31/87	Lincoln Green	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	001							4 mg/l	
2PH00004	06/30/87	Lincoln Green	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	001							4 mg/l	
2PH00004	07/31/87	Lincoln Green	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	001							4 mg/l	
2PH00004	08/31/87	Lincoln Green	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	001							4 mg/l	
2PH00004	09/30/87	Lincoln Green	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l	1
	001							4 mg/l	
2PH00004	10/31/87	Lincoln Green	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	3 mg/l	1
	001							1 mg/l	
* Subsubtotal *									
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PH00004	05/31/87	Lincoln Green	Fecal Coliform	0	0	0 SU	200 SU	400 SU	1
	001						458 SU	10500 SU	
2PH00004	06/30/87	Lincoln Green	Fecal Coliform				200 SU	400 SU	1

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NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2PH00004	07/31/87	Lincoln Green	Fecal Coliform	0	0	0 SU	8272 SU	25700 SU	1
	001						200 SU	400 SU	
2PH00004	08/31/87	Lincoln Green	Fecal Coliform	0	0	0 SU	909 SU	6800 SU	1
	001						200 SU	400 SU	
2PH00004	09/30/87	Lincoln Green	Fecal Coliform	0	0	0 SU	6095 SU	16100 SU	1
	001						200 SU	400 SU	
2PH00004	05/31/88	Lincoln Green	Fecal Coliform	0	0	0 SU	24016 SU	46000 SU	1
	001						200 SU	400 SU	
2PH00004	06/30/88	Lincoln Green	Fecal Coliform	0	0	0 SU	6000 SU	6000 SU	1
	001						200 SU	400 SU	
* Subsubtotal *				0	0	0 SU	24150 SU	90000 SU	7
* VIOLATIONS FOR PARAMETER: FLOW, TOTAL									
2PH00004	11/30/87	Lincoln Green	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1
	001								
2PH00004	12/31/87	Lincoln Green	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1
	001								
2PH00004	01/31/88	Lincoln Green	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1
	001								
2PH00004	02/29/88	Lincoln Green	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1
	001								
2PH00004	03/31/88	Lincoln Green	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1
	001								
2PH00004	04/30/88	Lincoln Green	Flow, Total	0	0	0 mgd	0 mgd	0 mgd	1
	001								
* Subsubtotal *				0	0	0 mgd	0 mgd	0 mgd	6
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PH00004	01/31/87	Lincoln Green	Solids, Total Suspended	21	33		32 mg/l	52 mg/l	1
	001			23	55	0 mg/l	44 mg/l	140 mg/l	
2PH00004	02/28/87	Lincoln Green	Solids, Total Suspended	21	33		32 mg/l	52 mg/l	1
	001			29	108	0 mg/l	64 mg/l	240 mg/l	
2PH00004	04/30/87	Lincoln Green	Solids, Total Suspended	21	33		32 mg/l	52 mg/l	1
	001			22	96	0 mg/l	44 mg/l	200 mg/l	
* Subsubtotal *									3
** Subtotal **									25
** VIOLATIONS FOR NPDES: 2PH00013									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PH00013	01/31/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			12	21	0 mg/l	35 mg/l	54 mg/l	
2PH00013	02/28/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			12	37	0 mg/l	43 mg/l	126 mg/l	
2PH00013	03/31/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			7	16	0 mg/l	20 mg/l	41 mg/l	
2PH00013	04/30/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			5	17	0 mg/l	20 mg/l	50 mg/l	
2PH00013	05/31/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			5	13	0 mg/l	26 mg/l	68 mg/l	
2PH00013	06/30/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1
	001			2	4	0 mg/l	12 mg/l	20 mg/l	
2PH00013	08/31/87	Oak Openings Industrial Park	BOD 5	7	10		10 mg/l	15 mg/l	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2PH00013	001 10/31/87	Oak Openings Industrial Park	BOD 5	2 7	7 10	0 mg/l	12 mg/l 10 mg/l	31 mg/l 15 mg/l	1
2PH00013	001 11/30/87	Oak Openings Industrial Park	BOD 5	3 7	4 10	0 mg/l	16 mg/l 10 mg/l	24 mg/l 15 mg/l	1
2PH00013	001 12/31/87	Oak Openings Industrial Park	BOD 5	2 7	5 10	0 mg/l	13 mg/l 10 mg/l	30 mg/l 15 mg/l	1
2PH00013	001 02/29/88	Oak Openings Industrial Park	BOD 5	6 7	7 10	0 mg/l	31 mg/l 10 mg/l	45 mg/l 15 mg/l	1
2PH00013	001 05/31/88	Oak Openings Industrial Park	BOD 5	2 7	2 10	0 mg/l	11 mg/l 10 mg/l	14 mg/l 15 mg/l	1
2PH00013	001 06/30/88	Oak Openings Industrial Park	BOD 5	6 7	12 10	0 mg/l	34 mg/l 10 mg/l	57 mg/l 15 mg/l	1
* Subsubtotal *				6	7	0 mg/l	32 mg/l	23 mg/l	13
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PH00013	001 05/31/87	Oak Openings Industrial Park	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00013	001 06/30/87	Oak Openings Industrial Park	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00013	001 07/31/87	Oak Openings Industrial Park	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00013	001 08/31/87	Oak Openings Industrial Park	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00013	001 09/30/87	Oak Openings Industrial Park	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00013	001 10/31/87	Oak Openings Industrial Park	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
* Subsubtotal *				0	0	0 mg/l	0 mg/l	4 mg/l	6
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PH00013	001 05/31/87	Oak Openings Industrial Park	Fecal Coliform	0	0	0 SU	1000 SU 9402 SU	2000 SU 17000 SU	1
2PH00013	001 06/30/87	Oak Openings Industrial Park	Fecal Coliform	0	0	0 SU	1000 SU 23263 SU	2000 SU 97000 SU	1
2PH00013	001 07/31/87	Oak Openings Industrial Park	Fecal Coliform	0	0	0 SU	1000 SU 3946 SU	2000 SU 4500 SU	1
2PH00013	001 08/31/87	Oak Openings Industrial Park	Fecal Coliform	0	0	0 SU	1000 SU 8878 SU	2000 SU 43200 SU	1
2PH00013	001 09/30/87	Oak Openings Industrial Park	Fecal Coliform	0	0	0 SU	1000 SU 7807 SU	2000 SU 24000 SU	1
2PH00013	001 10/31/87	Oak Openings Industrial Park	Fecal Coliform	0	0	0 SU	1000 SU 54034 SU	2000 SU 167000 SU	1
2PH00013	001 05/31/88	Oak Openings Industrial Park	Fecal Coliform	0	0	0 SU	1000 SU 130000 SU	2000 SU 130000 SU	1
2PH00013	001 06/30/88	Oak Openings Industrial Park	Fecal Coliform	0	0	0 SU	1000 SU 20325 SU	2000 SU 42500 SU	1
* Subsubtotal *				0	0	0 SU			8
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2PH00013	001 01/31/87	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	5 mg/l 4 mg/l	0 mg/l	0 mg/l	1
2PH00013	001 02/28/87	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	5 mg/l 2 mg/l	0 mg/l	0 mg/l	1
2PH00013	001 03/31/87	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2PH00013	04/30/87	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	1 mg/l	0 mg/l	0 mg/l	1
2PH00013	05/31/87	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	3 mg/l	0 mg/l	0 mg/l	1
2PH00013	06/30/87	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	3 mg/l	0 mg/l	0 mg/l	1
2PH00013	07/31/87	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	2 mg/l	0 mg/l	0 mg/l	1
2PH00013	08/31/87	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
2PH00013	09/30/87	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	2 mg/l	0 mg/l	0 mg/l	1
2PH00013	10/31/87	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	1 mg/l	0 mg/l	0 mg/l	1
2PH00013	11/30/87	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
2PH00013	12/31/87	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	1 mg/l	0 mg/l	0 mg/l	1
2PH00013	01/31/88	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
2PH00013	02/29/88	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
2PH00013	03/31/88	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	4 mg/l	0 mg/l	0 mg/l	1
2PH00013	05/31/88	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
2PH00013	06/30/88	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	4 mg/l	0 mg/l	0 mg/l	1
2PH00013	07/31/88	Oak Openings Industrial Park	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
* Subsubtotal *									
18									
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PH00013	01/31/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12		12 mg/l	18 mg/l	1
2PH00013	02/28/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12	0 mg/l	37 mg/l	60 mg/l	1
2PH00013	03/31/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12	0 mg/l	117 mg/l	404 mg/l	1
2PH00013	04/30/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12	0 mg/l	34 mg/l	70 mg/l	1
2PH00013	05/31/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12	0 mg/l	30 mg/l	60 mg/l	1
2PH00013	06/30/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12	0 mg/l	12 mg/l	18 mg/l	1
2PH00013	08/31/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12	0 mg/l	63 mg/l	210 mg/l	1
2PH00013	09/30/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12	0 mg/l	12 mg/l	18 mg/l	1
2PH00013	10/31/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12	0 mg/l	12 mg/l	18 mg/l	1
2PH00013	11/30/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12	0 mg/l	56 mg/l	132 mg/l	1
2PH00013	12/31/87	Oak Openings Industrial Park	Solids, Total Suspended	818	12	0 mg/l	12 mg/l	18 mg/l	1
2PH00013	01/31/88	Oak Openings Industrial Park	Solids, Total Suspended	818	12	0 mg/l	15 mg/l	29 mg/l	1
2PH00013	01/31/88	Oak Openings Industrial Park	Solids, Total Suspended	818	12	0 mg/l	79 mg/l	168 mg/l	1

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2PH00013	02/29/88	Oak Openings Industrial Park	Solids, Total Suspended	3 818	4 12	0 mg/l	14 mg/l 12 mg/l	19 mg/l 18 mg/l	1
2PH00013	03/31/88	Oak Openings Industrial Park	Solids, Total Suspended	3 818	6 12	0 mg/l	17 mg/l 12 mg/l	36 mg/l 18 mg/l	1
2PH00013	04/30/88	Oak Openings Industrial Park	Solids, Total Suspended	3 818	5 12	0 mg/l	15 mg/l 12 mg/l	28 mg/l 18 mg/l	1
2PH00013	05/31/88	Oak Openings Industrial Park	Solids, Total Suspended	3 818	3 12	0 mg/l	13 mg/l 12 mg/l	15 mg/l 18 mg/l	1
2PH00013	06/30/88	Oak Openings Industrial Park	Solids, Total Suspended	26 818	64 12	0 mg/l	134 mg/l 12 mg/l	308 mg/l 18 mg/l	1
* Subsubtotal *				35	45	0 mg/l	174 mg/l	152 mg/l	
** Subtotal **									17
** VIOLATIONS FOR NPDES: 2PH00014									62
* VIOLATIONS FOR PARAMETER: BOD 5									
2PH00014	03/31/87	Oak Terrace	BOD 5	4 13	6 51	0 mg/l	10 mg/l 47 mg/l	15 mg/l 180 mg/l	1
2PH00014	06/30/87	Oak Terrace	BOD 5	4 3	6 7	0 mg/l	10 mg/l 8 mg/l	15 mg/l 17 mg/l	1
2PH00014	08/31/87	Oak Terrace	BOD 5	4 14	6 47	0 mg/l	10 mg/l 38 mg/l	15 mg/l 128 mg/l	1
2PH00014	12/31/87	Oak Terrace	BOD 5	4 39	6 154	0 mg/l	10 mg/l 99 mg/l	15 mg/l 384 mg/l	1
2PH00014	06/30/88	Oak Terrace	BOD 5	4 9	6 0	0 mg/l	10 mg/l 24 mg/l	15 mg/l 1 mg/l	1
* Subsubtotal *									5
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PH00014	05/31/87	Oak Terrace	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00014	06/30/87	Oak Terrace	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00014	07/31/87	Oak Terrace	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00014	08/31/87	Oak Terrace	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00014	09/30/87	Oak Terrace	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00014	10/31/87	Oak Terrace	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00014	05/31/88	Oak Terrace	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00014	06/30/88	Oak Terrace	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 4 mg/l	1
2PH00014	07/31/88	Oak Terrace	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 2 mg/l	1
* Subsubtotal *									9
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PH00014	05/31/87	Oak Terrace	Fecal Coliform	0	0	0 SU	1000 SU 1020 SU	2000 SU 2000 SU	1
2PH00014	06/30/87	Oak Terrace	Fecal Coliform				1000 SU	2000 SU	1

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2PH00014	07/31/87	Oak Terrace	Fecal Coliform	0	0	0 SU	7829 SU	20600 SU	1
	001						1000 SU	2000 SU	
2PH00014	08/31/87	Oak Terrace	Fecal Coliform	0	0	0 SU	1166 SU	800 SU	1
	001						1000 SU	2000 SU	
2PH00014	09/30/87	Oak Terrace	Fecal Coliform	0	0	0 SU	1786 SU	106000 SU	1
	001						1000 SU	2000 SU	
2PH00014	10/31/87	Oak Terrace	Fecal Coliform	0	0	0 SU	1261 SU	5900 SU	1
	001						1000 SU	2000 SU	
* Subsubtotal *									
6									
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2PH00014	01/31/87	Oak Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					3 mg/l			
2PH00014	02/28/87	Oak Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					3 mg/l			
2PH00014	03/31/87	Oak Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					2 mg/l			
2PH00014	04/30/87	Oak Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					3 mg/l			
2PH00014	05/31/87	Oak Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					2 mg/l			
2PH00014	06/30/87	Oak Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					2 mg/l			
2PH00014	07/31/87	Oak Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					4 mg/l			
2PH00014	08/31/87	Oak Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					4 mg/l			
2PH00014	09/30/87	Oak Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					4 mg/l			
2PH00014	12/31/87	Oak Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					2 mg/l			
2PH00014	02/29/88	Oak Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					4 mg/l			
2PH00014	07/31/88	Oak Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
	001					3 mg/l			
* Subsubtotal *									
12									
* VIOLATIONS FOR PARAMETER: PH									
2PH00014	02/28/87	Oak Terrace	pH	0	0	7 SU	0 SU	9 SU	1
	001					6 SU		7 SU	
2PH00014	09/30/87	Oak Terrace	pH	0	0	7 SU	0 SU	9 SU	1
	001					6 SU		8 SU	
2PH00014	10/31/87	Oak Terrace	pH	0	0	7 SU	0 SU	9 SU	1
	001					6 SU		7 SU	
* Subsubtotal *									
3									
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PH00014	03/31/87	Oak Terrace	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1
	001			37	145	0 mg/l	132 mg/l	510 mg/l	
2PH00014	06/30/87	Oak Terrace	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1
	001			3	7	0 mg/l	8 mg/l	18 mg/l	
2PH00014	08/31/87	Oak Terrace	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1
	001			133	507	0 mg/l	359 mg/l	1368 mg/l	
2PH00014	12/31/87	Oak Terrace	Solids, Total Suspended	5	7		12 mg/l	18 mg/l	1

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2PH00014	02/29/88	001 Oak Terrace	Solids, Total Suspended	256 5	1019 7	0 mg/l	640 mg/l 12 mg/l	2540 mg/l 18 mg/l	1
2PH00014	04/30/88	001 Oak Terrace	Solids, Total Suspended	4 5	13 7	0 mg/l	13 mg/l 12 mg/l	43 mg/l 18 mg/l	1
2PH00014	06/30/88	001 Oak Terrace	Solids, Total Suspended	4 5 47	8 7 2	0 mg/l	6 mg/l 12 mg/l 120 mg/l	10 mg/l 18 mg/l 7 mg/l	1
* Subsubtotal *									7
** Subtotal **									42
** VIOLATIONS FOR NPDES: 2PK00000									
* VIOLATIONS FOR PARAMETER: CHLORINE, TOTAL RESIDUAL									
2PK00000	05/31/87	001 Maumee River WWTP	Chlorine, Total Residual	0	0	0 mg/l	0 mg/l	1 mg/l 5 mg/l	1
* Subsubtotal *									1
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PK00000	05/31/88	001 Maumee River WWTP	Fecal Coliform	0	0	0 SU	1000 SU 253 SU	2000 SU 54327 SU	1
2PK00000	06/30/88	001 Maumee River WWTP	Fecal Coliform	0	0	0 SU	1000 SU 267 SU	2000 SU 61111 SU	1
* Subsubtotal *									2
** Subtotal **									3
** VIOLATIONS FOR NPDES: 2PS00002									
* VIOLATIONS FOR PARAMETER: BOD 5									
2PS00002	01/31/87	001 Woodside Terrace	BOD 5	3 6	5 7	0 mg/l	10 mg/l 18 mg/l	15 mg/l 20 mg/l	1
2PS00002	02/28/87	001 Woodside Terrace	BOD 5	3 7	5 11	0 mg/l	10 mg/l 18 mg/l	15 mg/l 29 mg/l	1
2PS00002	03/31/87	001 Woodside Terrace	BOD 5	3 12	5 15	0 mg/l	10 mg/l 32 mg/l	15 mg/l 41 mg/l	1
2PS00002	04/30/87	001 Woodside Terrace	BOD 5	3 10	5 13	0 mg/l	10 mg/l 27 mg/l	15 mg/l 36 mg/l	1
2PS00002	05/31/87	001 Woodside Terrace	BOD 5	3 7	5 12	0 mg/l	10 mg/l 20 mg/l	15 mg/l 33 mg/l	1
2PS00002	06/30/87	001 Woodside Terrace	BOD 5	3 13	5 23	0 mg/l	10 mg/l 36 mg/l	15 mg/l 67 mg/l	1
2PS00002	07/31/87	001 Woodside Terrace	BOD 5	3 10	5 13	0 mg/l	10 mg/l 26 mg/l	15 mg/l 34 mg/l	1
2PS00002	08/31/87	001 Woodside Terrace	BOD 5	3 6	5 7	0 mg/l	10 mg/l 16 mg/l	15 mg/l 19 mg/l	1
2PS00002	09/30/87	001 Woodside Terrace	BOD 5	3 6	5 14	0 mg/l	10 mg/l 17 mg/l	15 mg/l 37 mg/l	1
2PS00002	10/31/87	001 Woodside Terrace	BOD 5	3 3	5 6	0 mg/l	10 mg/l 9 mg/l	15 mg/l 16 mg/l	1
2PS00002	11/30/87	001 Woodside Terrace	BOD 5	3 3	5 5	0 mg/l	10 mg/l 9 mg/l	15 mg/l 14 mg/l	1
2PS00002	12/31/87	001 Woodside Terrace	BOD 5	3 9	5 12	0 mg/l	10 mg/l 26 mg/l	15 mg/l 32 mg/l	1
2PS00002	01/31/88	001 Woodside Terrace	BOD 5	3 8	5 10	0 mg/l	10 mg/l 21 mg/l	15 mg/l 28 mg/l	1
2PS00002	02/29/88	001 Woodside Terrace	BOD 5	3 8	5 12	0 mg/l	10 mg/l 23 mg/l	15 mg/l 32 mg/l	1
2PS00002	03/31/88	001 Woodside Terrace	BOD 5	3	5	0 mg/l	10 mg/l	15 mg/l	1

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2PS00002	04/30/88	001 Woodside Terrace	BOD 5	9	13	0 mg/l	25 mg/l	35 mg/l	
		001		3	5		10 mg/l	15 mg/l	1
2PS00002	05/31/88	001 Woodside Terrace	BOD 5	3	26	0 mg/l	24 mg/l	70 mg/l	
		001		5	5		10 mg/l	15 mg/l	1
2PS00002	07/31/88	001 Woodside Terrace	BOD 5	5	7	0 mg/l	14 mg/l	20 mg/l	
		001		3	5		10 mg/l	15 mg/l	1
		001		3	5		8 mg/l	14 mg/l	
* Subsubtotal *									18
* VIOLATIONS FOR PARAMETER: FECAL COLIFORM									
2PS00002	05/31/87	001 Woodside Terrace	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
		001					2907 SU	6000 SU	
2PS00002	06/30/87	001 Woodside Terrace	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
		001					14091 SU	50000 SU	
2PS00002	07/31/87	001 Woodside Terrace	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
		001					20596 SU	25600 SU	
2PS00002	08/31/87	001 Woodside Terrace	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
		001					18886 SU	20175 SU	
2PS00002	09/30/87	001 Woodside Terrace	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
		001					13500 SU	17600 SU	
2PS00002	10/31/87	001 Woodside Terrace	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
		001					3613 SU	12400 SU	
2PS00002	05/31/88	001 Woodside Terrace	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
		001					17110 SU	23200 SU	
2PS00002	07/31/88	001 Woodside Terrace	Fecal Coliform	0	0	0 SU	1000 SU	2000 SU	1
		001					15111 SU	19000 SU	
* Subsubtotal *									8
* VIOLATIONS FOR PARAMETER: OXYGEN, DISSOLVED									
2PS00002	01/31/87	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				1 mg/l			
2PS00002	02/28/87	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				1 mg/l			
2PS00002	03/31/87	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				1 mg/l			
2PS00002	04/30/87	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				1 mg/l			
2PS00002	05/31/87	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				0 mg/l			
2PS00002	06/30/87	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				1 mg/l			
2PS00002	07/31/87	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				1 mg/l			
2PS00002	08/31/87	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				1 mg/l			
2PS00002	09/30/87	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				1 mg/l			
2PS00002	10/31/87	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				0 mg/l			
2PS00002	11/30/87	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				0 mg/l			
2PS00002	12/31/87	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				0 mg/l			
2PS00002	01/31/88	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				0 mg/l			
2PS00002	02/29/88	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1
		001				1 mg/l			
2PS00002	03/31/88	001 Woodside Terrace	Oxygen, Dissolved	0	0	5 mg/l	0 mg/l	0 mg/l	1

NPDES PERMIT NUMBER	DATE & OUTFALL NUMBER	NAME OF FACILITY/OWNER	NAME OF PARAMETER VIOLATED	AVG QUANTITY in kg/day Lim/Measured	MAX QUANTITY in kg/day Lim/Measured	MIN CONC Lim/Measured	AVG CONC Lim/Measured	MAX CONC Lim/Measured	TALLY
2PS00002	04/30/88	001 Woodside Terrace	Oxygen, Dissolved	0	0	0 mg/l 5 mg/l	0 mg/l	0 mg/l	1
2PS00002	05/31/88	001 Woodside Terrace	Oxygen, Dissolved	0	0	0 mg/l 5 mg/l	0 mg/l	0 mg/l	1
2PS00002	07/31/88	001 Woodside Terrace	Oxygen, Dissolved	0	0	0 mg/l 5 mg/l	0 mg/l	0 mg/l	1
* Subsubtotal *									
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									18
2PS00002	01/31/87	001 Woodside Terrace	Solids, Total Suspended	4	6		12 mg/l	18 mg/l	1
2PS00002	02/28/87	001 Woodside Terrace	Solids, Total Suspended	12	17	0 mg/l	35 mg/l	48 mg/l	1
2PS00002	03/30/87	001 Woodside Terrace	Solids, Total Suspended	4	6	0 mg/l	12 mg/l	18 mg/l	1
2PS00002	04/30/87	001 Woodside Terrace	Solids, Total Suspended	10	15	0 mg/l	27 mg/l	42 mg/l	1
2PS00002	05/31/87	001 Woodside Terrace	Solids, Total Suspended	4	6	0 mg/l	12 mg/l	18 mg/l	1
2PS00002	06/30/87	001 Woodside Terrace	Solids, Total Suspended	10	15	0 mg/l	28 mg/l	40 mg/l	1
2PS00002	08/31/87	001 Woodside Terrace	Solids, Total Suspended	4	6	0 mg/l	12 mg/l	18 mg/l	1
2PS00002	09/30/87	001 Woodside Terrace	Solids, Total Suspended	7	14	0 mg/l	19 mg/l	38 mg/l	1
2PS00002	10/31/87	001 Woodside Terrace	Solids, Total Suspended	4	6	0 mg/l	12 mg/l	18 mg/l	1
2PS00002	11/30/87	001 Woodside Terrace	Solids, Total Suspended	8	15	0 mg/l	21 mg/l	41 mg/l	1
2PS00002	12/31/87	001 Woodside Terrace	Solids, Total Suspended	4	6	0 mg/l	12 mg/l	18 mg/l	1
2PS00002	01/31/88	001 Woodside Terrace	Solids, Total Suspended	7	9	0 mg/l	20 mg/l	25 mg/l	1
2PS00002	02/29/88	001 Woodside Terrace	Solids, Total Suspended	4	6	0 mg/l	12 mg/l	18 mg/l	1
2PS00002	03/31/88	001 Woodside Terrace	Solids, Total Suspended	7	14	0 mg/l	19 mg/l	39 mg/l	1
2PS00002	04/30/88	001 Woodside Terrace	Solids, Total Suspended	4	6	0 mg/l	12 mg/l	18 mg/l	1
2PS00002	05/31/88	001 Woodside Terrace	Solids, Total Suspended	4	6	0 mg/l	12 mg/l	18 mg/l	1
* Subsubtotal *									
** Subtotal **									16
** VIOLATIONS FOR NPDES: 2PY00000									60
* VIOLATIONS FOR PARAMETER: SOLIDS, TOTAL SUSPENDED									
2PY00000	03/31/88	001 Centennial Manor	Solids, Total Suspended	1	0	0 mg/l	18 mg/l	0 mg/l	1
* Subsubtotal *									
** Subtotal **									1
*** Total ***									1
									627