160292

SURFACE-WATER SAMPLE RESULTS

SAMPLE No. SW-1

RIEDEL ENVIRONMENTAL SERVICES, INC.
18207 EDISON AVENUE
CHESTERFIELD, MO 63005-3703

ATTN: KEN BRAIG

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32264
PO # ---

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: METHOD BLANK
LAB ID: VBBLK157A

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	Acetone	100	U
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total C&T)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE ANALYZED : 06/06/95
ANALYST : L.C.

JUNE 9, 1995

WL Cooper MEC
WAYNE L. COOPER
LABORATORY DIRECTOR

RIEDEL ENVIRONMENTAL SERVICES, INC.
18207 EDISON AVENUE
CHESTERFIELD, MO 63005-3703

ATTN: KEN BRAIG

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32264
PO # ---

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: SW-1 UNFILTERED
LAB ID: 9506/041-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/l	U µg/l
74-83-9	Bromomethane	10	U
85-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5.0	U
67-64-1	**Acetone**	**100**	**120**
107-02-8	Acrolein	100	U
75-15-0	Carbon Disulfide	100	U
107-13-1	Acrylonitrile	100	U
75-69-04	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (Total C&T)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	100	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon Tetrachloride	5.0	U
108-05-4	Vinyl Acetate	50	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylene (Total)	5.0	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 06/02/95
DATE RECEIVED : 06/02/95 5:37
DATE ANALYZED : 06/06/95
ANALYST : L.C.

JUNE 9, 1995

Wl Cooper MSc

WAYNE L. COOPER
LABORATORY DIRECTOR

RIEDEL ENVIRONMENTAL SERVICES, INC.
18207 EDISON AVENUE
CHESTERFIELD, MO 63005-3703

ATTN: KEN BRAIG

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32264
PO # ---

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE ONE

SAMPLE ID: METHOD BLANK
LAB ID: WASBLK6389

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	10 µg/l	U µg/l
108-95-2	Phenol	10	U
111-44-4	bis(2-chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	o-Cresol	10	U
39638-32-9	bis-(2-Chloro2propyl)Ether	10	U
106-44-5	m & p-Cresol	10	U
621-64-7	N-Nitroso-Di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	10	U
103-33-3	Azobenzene	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U

RIEDEL ENVIRONMENTAL SERVICES, INC.
18207 EDISON AVENUE
CHESTERFIELD, MO 63005-3703

ATTN: KEN BRAIG

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32264
PO # ---

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE TWO

SAMPLE ID: METHOD BLANK
LAB ID: WASBLK6389

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	50 µg/l	U µg/l
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenol phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
92-87-4	Benzidine	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 06/05/95
DATE ANALYZED : 06/06/95
ANALYST : D.C.

JUNE 9, 1995

Wayne Cooper mec
WAYNE L. COOPER
LABORATORY DIRECTOR

RIEDEL ENVIRONMENTAL SERVICES, INC.
18207 EDISON AVENUE
CHESTERFIELD, MO 63005-3703

ATTN: KEN BRAIG

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32264
PO # ---

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE ONE

SAMPLE ID: SW-1 UNFILTERED
LAB ID: 9506/047-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	12 µg/l	U µg/l
108-95-2	Phenol	12	U
111-44-4	bis(2-chloroethyl)Ether	12	U
95-57-8	2-Chlorophenol	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
100-51-6	Benzyl Alcohol	12	U
95-50-1	1,2-Dichlorobenzene	12	U
95-48-7	o-Cresol	12	U
39638-32-9	bis-(2-Chloro2propyl)Ether	12	U
106-44-5	m & p-Cresol	12	U
621-64-7	N-Nitroso-Di-n-propylamine	12	U
67-72-1	Hexachloroethane	12	U
98-95-3	Nitrobenzene	12	U
78-59-1	Isophorone	12	U
88-75-5	2-Nitrophenol	12	U
105-67-9	2,4-Dimethylphenol	12	U
65-85-0	Benzoic Acid	62	U
111-91-1	bis(2-Chloroethoxy)methane	12	U
120-83-2	2,4-Dichlorophenol	**12**	**20**
120-82-1	1,2,4-Trichlorobenzene	12	U
91-20-3	Naphthalene	12	U
106-47-8	4-Chloroaniline	12	U
87-68-3	Hexachlorobutadiene	12	U
59-50-7	4-Chloro-3-methylphenol	12	U
91-57-6	2-Methylnaphthalene	12	U
77-47-4	Hexachlorocyclopentadiene	12	U
88-06-2	2,4,6-Trichlorophenol	12	U
95-95-4	2,4,5-Trichlorophenol	12	U
91-58-7	2-Chloronaphthalene	12	U
88-74-4	2-Nitroaniline	**62**	**180**
131-11-3	Dimethylphthalate	12	U
103-33-3	Azobenzene	12	U
208-96-8	Acenaphthylene	12	U
606-20-2	2,6-Dinitrotoluene	12	U
99-09-2	3-Nitroaniline	62	U
83-32-9	Acenaphthene	12	U
51-28-5	2,4-Dinitrophenol	62	U

RIEDEL ENVIRONMENTAL SERVICES, INC.
18207 EDISON AVENUE
CHESTERFIELD, MO 63005-3703

ATTN: KEN BRAIG

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32264
PO # ---

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE TWO

SAMPLE ID: SW-1 UNFILTERED
LAB ID: 9506/047-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	62 µg/l	U µg/l
132-64-9	Dibenzofuran	12	U
121-14-2	2,4-Dinitrotoluene	12	U
84-66-2	Diethylphthalate	**12**	**13**
7005-72-3	4-Chlorophenol phenyl ether	12	U
86-73-7	Fluorene	12	U
100-01-6	4-Nitroaniline	62	U
534-52-1	4,6-Dinitro-2-methylphenol	62	U
86-30-6	N-Nitrosodiphenylamine	12	U
101-55-3	4-Bromophenyl phenyl ether	12	U
118-74-1	Hexachlorobenzene	12	U
87-86-5	Pentachlorophenol	62	U
85-01-8	Phenanthrene	12	U
120-12-7	Anthracene	12	U
84-74-2	Carbazole	12	U
84-74-2	Di-n-butylphthalate	12	U
206-44-0	Fluoranthene	12	U
92-87-4	Benzidine	12	U
129-00-0	Pyrene	12	U
85-68-7	Butylbenzylphthalate	12	U
91-94-1	3,3'-Dichlorobenzidine	12	U
56-55-3	Benzo(a)anthracene	12	U
218-01-9	Chrysene	12	U
117-81-7	bis(2-Ethylhexyl)phthalate	12	U
117-84-0	Di-n-octylphthalate	12	U
205-99-2	Benzo(b)fluoranthene	12	U
207-08-9	Benzo(k)fluoranthene	12	U
50-32-8	Benzo(a)pyrene	12	U
193-39-5	Indeno(1,2,3-cd)pyrene	12	U
53-70-3	Dibenzo(a,h)anthracene	12	U
191-24-2	Benzo(g,h,i)perylene	12	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 06/02/95
DATE RECEIVED : 06/02/95 5:37
DATE EXTRACTED : 06/05/95
DATE ANALYZED : 06/06/95
ANALYST : D.C.

JUNE 9, 1995
WL Cooper MEC
WAYNE L. COOPER
LABORATORY DIRECTOR

RIEDEL ENVIRONMENTAL SERVICES, INC.
18207 EDISON AVENUE
CHESTERFIELD, MO 63005-3703

ATTN: KEN BRAIG

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32264
PO # ---

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE ONE

SAMPLE ID: BW-1
LAB ID: 9506/047-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
57-75-9	N-Nitrosodimethylamine	11 µg/l	U µg/l
108-95-2	Phenol	11	U
111-44-4	bis(2-chloroethyl)Ether	11	U
95-57-8	2-Chlorophenol	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
100-51-6	Benzyl Alcohol	11	U
95-50-1	1,2-Dichlorobenzene	11	U
95-48-7	o-Cresol	11	U
39638-32-9	bis-(2-Chloro2propyl)Ether	11	U
106-44-5	m & p-Cresol	11	U
621-64-7	N-Nitroso-Di-n-propylamine	11	U
67-72-1	Hexachloroethane	11	U
98-95-3	Nitrobenzene	11	U
78-59-1	Isophorone	11	U
88-75-5	2-Nitrophenol	11	U
105-67-9	2,4-Dimethylphenol	11	U
65-85-0	Benzoic Acid	57	U
111-91-1	bis(2-Chloroethoxy)methane	11	U
120-83-2	2,4-Dichlorophenol	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U
91-20-3	Naphthalene	11	U
106-47-8	4-Chloroaniline	11	U
87-68-3	Hexachlorobutadiene	11	U
59-50-7	4-Chloro-3-methylphenol	11	U
91-57-6	2-Methylnaphthalene	11	U
77-47-4	Hexachlorocyclopentadiene	11	U
88-06-2	2,4,6-Trichlorophenol	11	U
95-95-4	2,4,5-Trichlorophenol	11	U
91-58-7	2-Chloronaphthalene	11	U
88-74-4	2-Nitroaniline	57	U
131-11-3	Dimethylphthalate	11	U
103-33-3	Azobenzene	11	U
208-96-8	Acenaphthylene	11	U
606-20-2	2,6-Dinitrotoluene	11	U
99-09-2	3-Nitroaniline	57	U
83-32-9	Acenaphthene	11	U
51-28-5	2,4-Dinitrophenol	57	U

RIEDEL ENVIRONMENTAL SERVICES, INC.
18207 EDISON AVENUE
CHESTERFIELD, MO 63005-3703

ATTN: KEN BRAIG

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

INVOICE # 32264
PO # ---

SEMIVOLATILE ORGANIC COMPOUNDS
METHOD SW-846 8270
PAGE TWO

SAMPLE ID: BW-1
LAB ID: 9506/047-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	57 µg/l	U µg/l
132-64-9	Dibenzofuran	11	U
121-14-2	2,4-Dinitrotoluene	11	U
84-66-2	Diethylphthalate	11	U
7005-72-3	4-Chlorophenol phenyl ether	11	U
86-73-7	Fluorene	11	U
100-01-6	4-Nitroaniline	57	U
534-52-1	4,6-Dinitro-2-methylphenol	57	U
86-30-6	N-Nitrosodiphenylamine	11	U
101-55-3	4-Bromophenyl phenyl ether	11	U
118-74-1	Hexachlorobenzene	11	U
87-86-5	Pentachlorophenol	57	U
85-01-8	Phenanthrene	11	U
120-11-7	Anthracene	11	U
84-74-2	Carbazole	11	U
84-74-2	Di-n-butylphthalate	11	U
206-44-0	Fluoranthene	11	U
92-87-4	Benzidine	11	U
129-00-0	Pyrene	11	U
85-68-7	Butylbenzylphthalate	11	U
91-94-1	3,3'-Dichlorobenzidine	11	U
56-55-3	Benzo(a)anthracene	11	U
218-01-9	Chrysene	11	U
117-81-7	bis(2-Ethylhexyl)phthalate	11	U
117-84-0	Di-n-octylphthalate	11	U
205-99-2	Benzo(b)fluoranthene	11	U
207-08-9	Benzo(k)fluoranthene	11	U
50-32-8	Benzo(a)pyrene	11	U
193-39-5	Indeno(1,2,3-cd)pyrene	11	U
53-70-3	Dibenzo(a,h)anthracene	11	U
191-24-2	Benzo(g,h,i)perylene	11	U

U = UNDETECTED
B = PRESENT IN BLANK
J = DETECTED, BUT BELOW PRACTICAL QUANTITATION LIMIT

DATE COLLECTED : 06/02/95
DATE RECEIVED : 06/02/95 5:37
DATE EXTRACTED : 06/05/95
DATE ANALYZED : 06/06/95
ANALYST : D.C.

JUNE 9, 1995

WL Cooper MEC
WAYNE L. COOPER
LABORATORY DIRECTOR

RIEDEL ENVIRONMENTAL SERVICES, INC.
18207 EDISON AVENUE
CHESTERFIELD, MO 63005-3703

ATTN: KEN BRAIG

INVOICE # 32264
PO # ---

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ANALYSIS REPORT

PCBs IN WATER

METHOD EPA 608

LAB NO.	IDENTIFICATION	TOTAL ppb	TYPE
9506/047-001	SW-1 UNFILTERED	1	1260

DATE COLLECTED : 06/02/95
DATE RECEIVED : 06/02/95 5:37
DATE ANALYZED : 06/06/95
ANALYST : C.D.

JUNE 9, 1995

WL Cooper MEC

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

RIEDEL ENVIRONMENTAL SERVICES, INC.
18207 EDISON AVENUE
CHESTERFIELD, MO 63005-3703

ATTN: KEN BRAIG

INVOICE # 32264
PO # ---

ANALYSIS RESULTS

SAMPLE ID: SW-1 UNFILTERED
LAB ID: 9506/047-001
DATE COLLECTED: 06/02/95
DATE RECEIVED: 06/02/95 5:37

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
METALS ANALYSIS		DISSOLVED	
IRON	EPA 200.7	0.331 mg/l	06/08/95 R.D.
		TOTAL	
ARSENIC	EPA 206.2	**0.0045** mg/l	06/08/95 D.S.
BARIUM	EPA 200.7	**0.155**	06/08/95 R.D.
BORON	EPA 200.7	<0.200	06/08/95 R.D.
CADMIUM	EPA 200.7	<0.005	06/09/95 R.D.
CHROMIUM, HEXIVALENT	EPA 200.7	<0.010	06/07/95 R.D.
COPPER	EPA 200.7	**0.061**	06/08/95 R.D.
IRON	EPA 200.7	**2.15**	06/08/95 R.D.
LEAD	EPA 239.2	**0.0060**	06/08/95 D.S.
MANGANESE	EPA 200.7	**0.907**	06/09/95 R.D.
MERCURY	EPA 245.1	**0.0004**	06/07/95 D.S.
NICKEL	EPA 200.7	<0.040	06/08/95 R.D.
SELENIUM	EPA 200.7	<0.200	06/08/95 R.D.
SILVER	EPA 200.7	<0.010	06/08/95 R.D.
ZINC	EPA 200.7	**0.213**	06/08/95 R.D.

JUNE 9, 1995

WL Cooper /MEC
WAYNE L. COOPER
LABORATORY DIRECTOR

RIEDEL ENVIRONMENTAL SERVICES, INC.
18207 EDISON AVENUE
CHESTERFIELD, MO 63005-3703

ATTN: KEN BRAIG

INVOICE # 32264
PO # ---

ENVIRONMETRICS
2345 Millpark Drive
Maryland Heights, MO 63043-3529
(314) 427-0550

ANALYSIS RESULTS

SAMPLE ID: SW-1 UNFILTERED
LAB ID: 9506/047-001
DATE COLLECTED: 06/02/95
DATE RECEIVED: 06/02/95 5:37

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS		ANALYST
CHLORIDE	EPA 325.3	**11**	mg/l	06/09/95 S.H.
TOTAL CYANIDE	EPA 335.2	<0.01	mg/l	06/08/95 S.H.
FLUORIDE, ELECTRODE	EPA 340.2	**0.23**	mg/l	06/06/95 A.C.
PHENOLS	EPA 420.1	**0.05**	mg/l	06/07/95 A.C.
TOTAL DISSOLVED SOLIDS	EPA 160.1	**290**	mg/l	06/08/95 E.A.
SULFATE	EPA 375.4	**50**	mg/l	06/09/95 S.H.
TOTAL RESIDUAL CHLORINE	S.M. 4500-CL-C	<0.05	mg/l	06/08/95 M.A.

S.M. = STANDARD METHODS, 17TH EDITION

JUNE 9, 1995

WL Cooper MEC
WAYNE L. COOPER
LABORATORY DIRECTOR

RIEDEL ENVIRONMENTAL SERVICES, INC.

ANALYSIS OF POLYCHLORINATED DIOXINS/FURANS BY METHOD 8280

Client Project: 8168-01
Client Sample: SW-1

SAMPLE ANALYSIS SUMMARY REPORT

Ionics Project: 95-319
Ionics Sample: 4-19-1

Specific analytes	Sample		Blank	Lab spike		
	Conc (ppt)	DL (ppt)	Conc (ppt)	Conc (ppt)	Rec (%)	QC limits
2,3,7,8-TCDD	ND	0.75	ND	24.35	97%	50-150
1,2,3,7,8-PeCDD	ND	2.49	ND	64.00	102%	50-150
1,2,3,4,7,8-HxCDD	ND	1.85	ND	ND	-	-
1,2,3,6,7,8-HxCDD	ND	2.26	ND	56.56	91%	50-150
1,2,3,7,8,9-HxCDD	ND	2.11	ND	ND	-	-
1,2,3,4,6,7,8-HpCDD	4.93	1.26	ND	56.44	90%	50-150
OCDD	50.78	1.22	ND	144.19	115%	50-150
2,3,7,8-TCDF	ND	0.60	ND	27.89	112%	50-150
1,2,3,7,8-PeCDF	ND	0.50	ND	67.56	108%	50-150
2,3,4,7,8-PeCDF	ND	0.52	ND	ND	-	-
1,2,3,4,7,8-HxCDF	ND	0.89	ND	ND	-	-
1,2,3,6,7,8-HxCDF	ND	0.86	ND	76.80	123%	50-150
2,3,4,6,7,8-HxCDF	ND	0.95	ND	ND	-	-
1,2,3,7,8,9-HxCDF	ND	1.08	ND	ND	-	-
1,2,3,4,6,7,8-HpCDF	ND	3.81	ND	59.25	95%	50-150
1,2,3,4,7,8,9-HpCDF	ND	4.86	ND	ND	-	-
OCDF	5.58	0.91	ND	130.68	105%	50-150

Total analytes*	Number	Conc (ppt)	DL (ppt)	
TOTAL TCDD	0	ND	0.75	**Total dioxins/furans**
TOTAL PeCDD	0	ND	2.49	
TOTAL HxCDD	0	ND	2.26	**70.09 ppt**
TOTAL HpCDD	0	9.21	1.26	
TOTAL TCDF	0	ND	0.60	**2,3,7,8-TCDD toxicity equivalent**
TOTAL PeCDF	0	ND	0.52	
TOTAL HxCDF	0	ND	1.08	**0.106 ppt**
TOTAL HpCDF	2	4.53	4.86	

*Includes non-specific analytes, in addition to those chlorinated at carbon atoms 2, 3, 7, and 8.

IONICS INTERNATIONAL, INC.
(800) 4-DIOXIN
10655 Richmond Ave., Ste. 150
Houston, TX 77042
Phone: (713) 972-1037
Fax: (713) 784-1152