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

RIEDEL ENVIRONMENTAL SERVICES
500 EASTERN AVENUE
BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 32172
PROJECT # 8168, SAUGET - SITE G

ANALYSIS RESULTS

SAMPLE ID: WA-41
LAB ID: 9505/353-003
DATE COLLECTED: 5/20/95 15:00
DATE RECEIVED: 5/22/95 16:14

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
METALS ANALYSIS	SW-846 6010	TOTAL	
ARSENIC		<21.0 mg/kg	5/26/95 R.D.
BARIUM		6.22	5/26/95 R.D.
CADMIUM		<0.350	5/30/95 R.D.
CHROMIUM		1.40	5/26/95 R.D.
COPPER		3.99	5/26/95 R.D.
LEAD		<6.98	5/26/95 R.D.
NICKEL		<2.79	5/26/95 R.D.
SELENIUM		<14.0	5/26/95 R.D.
SILVER		<0.698	5/26/95 R.D.
ZINC		10.9	5/26/95 R.D.
MERCURY	SW-846 7471	2.9	5/31/95 D.S.

JUNE 2, 1995

WAYNE L. COOPER Ph.D
LABORATORY DIRECTOR

RIEDEL ENVIRONMENTAL SERVICES
500 EASTERN AVENUE
BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 32172
PROJECT # 8168, SAUGET - SITE G

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

ANALYSIS RESULTS

SAMPLE ID: WA-38
LAB ID: 9505/353-004
DATE COLLECTED: 5/20/95 15:00
DATE RECEIVED: 5/22/95 16:14

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS		ANALYST
METALS ANALYSIS	SW-846 6010	TOTAL		
ARSENIC		<13.1	mg/kg	5/26/95 R.D.
BARIUM		323		5/26/95 R.D.
CADMIUM		3.22		5/30/95 R.D.
CHROMIUM		128		5/26/95 R.D.
COPPER		388		5/26/95 R.D.
LEAD		173		5/26/95 R.D.
NICKEL		45.6		5/26/95 R.D.
SELENIUM		<13.1		5/26/95 R.D.
SILVER		1.71		5/26/95 R.D.
ZINC		1,130		5/26/95 R.D.
MERCURY	SW-846 7471	1.8		5/31/95 D.S.

JUNE 2, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

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

RIEDEL ENVIRONMENTAL SERVICES
500 EASTERN AVENUE
BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 32172
PROJECT # 8168, SAUGET - SITE G

ANALYSIS RESULTS

SAMPLE ID: WA-43
LAB ID: 9505/353-005
DATE COLLECTED: 5/20/95 15:00
DATE RECEIVED: 5/22/95 16:14

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS		ANALYST
METALS ANALYSIS	SW-846 6010	TOTAL		
ARSENIC		17.9	mg/kg	5/26/95 R.D.
BARIUM		11.0		5/26/95 R.D.
CADMIUM		14.7		5/30/95 R.D.
CHROMIUM		87.5		5/26/95 R.D.
COPPER		669,000		5/26/95 R.D.
LEAD		<79.1		5/26/95 R.D.
NICKEL		838		5/26/95 R.D.
SELENIUM		<10.5		5/26/95 R.D.
SILVER		13.6		5/26/95 R.D.
ZINC		1,240		5/26/95 R.D.
MERCURY	SW-846 7471	<0.1		5/31/95 D.S.

JUNE 2, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

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

RIEDEL ENVIRONMENTAL SERVICES
500 EASTERN AVENUE
BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 32172
PROJECT # 8168, SAUGET - SITE G

ANALYSIS RESULTS

SAMPLE ID: WA-42
LAB ID: 9505/353-006
DATE COLLECTED: 5/20/95 15:00
DATE RECEIVED: 5/22/95 16:14

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS	ANALYST
METALS ANALYSIS	SW-846 6010	TOTAL	
ARSENIC		<10.4 mg/kg	5/26/95 R.D.
BARIUM		23.5	5/26/95 R.D.
CADMIUM		0.991	5/30/95 R.D.
CHROMIUM		16.9	5/26/95 R.D.
COPPER		29.8	5/26/95 R.D.
LEAD		37.7	5/26/95 R.D.
NICKEL		11.7	5/26/95 R.D.
SELENIUM		<10.4	5/26/95 R.D.
SILVER		<0.521	5/26/95 R.D.
ZINC		138	5/26/95 R.D.
MERCURY	SW-846 7471	<0.1	5/31/95 D.S.

JUNE 2, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

RIEDEL ENVIRONMENTAL SERVICES
500 EASTERN AVENUE
BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 32172
PROJECT # 8168, SAUGET - SITE G

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

QUALITY ASSURANCE QUALITY CONTROL REPORT

MATRIX SPIKE
ICP/AA

SAMPLE ID: WA-42
LAB ID: 9505/353-006

ELEMENT	SAMPLE RESULT (mg/kg)	SPIKE LEVEL (mg/kg)	SPIKE RESULT (mg/kg)	% REC.
ARSENIC	<10.4	415	367	88
BARIUM	23.5	415	392	89
CADMIUM	0.991	10.4	10.7	93
CHROMIUM	16.9	41	53.4	89
COPPER	29.8	52	71.9	81
LEAD	37.7	104	112	71
MERCURY	<0.1	1.04	0.95	91
NICKEL	11.7	104	103	88
SELENIUM	<10.4	410	364	89
SILVER	<0.521	10.4	9.01	87
ZINC	138	104	238	96

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

RIEDEL ENVIRONMENTAL SERVICES
500 EASTERN AVENUE
BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 32172 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168, **METHOD SW-846 8270**
SAUGET - SITE G **PAGE ONE**

SAMPLE ID: WA-41
LAB ID: 9505/353-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	34,000 µg/kg	U µg/kg
108-95-2	Phenol	34,000	U
111-44-4	bis(2-chloroethyl)Ether	34,000	U
95-57-8	2-Chlorophenol	34,000	U
541-73-1	1,3-Dichlorobenzene	34,000	U
106-46-7	1,4-Dichlorobenzene	34,000	U
100-51-6	Benzyl Alcohol	34,000	U
95-50-1	1,2-Dichlorobenzene	34,000	U
95-48-7	o-Cresol	34,000	U
39638-32-9	bis-(2-Chloro2propyl)Ether	34,000	U
106-44-5	m & p-Cresol	34,000	U
621-64-7	N-Nitroso-Di-n-propylamine	34,000	U
67-72-1	Hexachloroethane	34,000	U
98-95-3	Nitrobenzene	34,000	U
78-59-1	Isophorone	34,000	U
88-75-5	2-Nitrophenol	34,000	U
105-67-9	2,4-Dimethylphenol	34,000	U
65-85-0	Benzoic Acid	170,000	U
111-91-1	bis(2-Chloroethoxy)methane	34,000	U
120-83-2	2,4-Dichlorophenol	34,000	U
120-82-1	1,2,4-Trichlorobenzene	34,000	U
91-20-3	Naphthalene	34,000	U
106-47-8	4-Chloroaniline	34,000	U
87-68-3	Hexachlorobutadiene	34,000	U
59-50-7	4-Chloro-3-methylphenol	34,000	U
91-57-6	2-Methylnaphthalene	34,000	U
77-47-4	Hexachlorocyclopentadiene	34,000	U
88-06-2	2,4,6-Trichlorophenol	34,000	U
95-95-4	2,4,5-Trichlorophenol	34,000	U
91-58-7	2-Chloronaphthalene	34,000	U
88-74-4	2-Nitroaniline	170,000	U
131-11-3	Dimethylphthalate	34,000	U
103-33-3	Azobenzene	34,000	U
208-96-8	Acenaphthylene	34,000	U
606-20-2	2,6-Dinitrotoluene	34,000	U
99-09-2	3-Nitroaniline	170,000	U
83-32-9	Acenaphthene	34,000	U
51-28-5	2,4-Dinitrophenol	170,000	U

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

RIEDEL ENVIRONMENTAL SERVICES
500 EASTERN AVENUE
BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 32172 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168, **METHOD SW-846 8270**
SAUGET - SITE G **PAGE TWO**

SAMPLE ID: WA-41
LAB ID: 9505/353-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	170,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	34,000	U
121-14-2	2,4-Dinitrotoluene	34,000	U
84-66-2	Diethylphthalate	34,000	U
7005-72-3	4-Chlorophenol phenyl ether	34,000	U
86-73-7	Fluorene	34,000	U
100-01-6	4-Nitroaniline	170,000	U
534-52-1	4,6-Dinitro-2-methylphenol	170,000	U
86-30-6	N-Nitrosodiphenylamine	34,000	U
101-55-3	4-Bromophenyl phenyl ether	34,000	U
118-74-1	Hexachlorobenzene	34,000	U
87-86-5	Pentachlorophenol	170,000	U
85-01-8	Phenanthrene	34,000	U
120-12-7	Anthracene	34,000	U
84-74-2	Carbazole	34,000	U
84-74-2	Di-n-butylphthalate	34,000	U
206-44-0	Fluoranthene	34,000	U
92-87-4	Benzidine	34,000	U
129-00-0	Pyrene	34,000	U
85-68-7	Butylbenzylphthalate	34,000	U
91-94-1	3,3'-Dichlorobenzidine	34,000	U
56-55-3	Benzo(a)anthracene	34,000	U
218-01-9	Chrysene	34,000	U
117-81-7	bis(2-Ethylhexyl)phthalate	34,000	U
117-84-0	Di-n-octylphthalate	34,000	U
205-99-2	Benzo(b)fluoranthene	34,000	U
207-08-9	Benzo(k)fluoranthene	34,000	U
50-32-8	Benzo(a)pyrene	34,000	U
193-39-5	Indeno(1,2,3-cd)pyrene	34,000	U
53-70-3	Dibenzo(a,h)anthracene	34,000	U
191-24-2	Benzo(g,h,i)perylene	34,000	U

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

DATE COLLECTED : 5/20/95 15:00
DATE RECEIVED : 5/22/95 16:14
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 6/02/95
ANALYST : D.C.

JUNE 2, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

RIEDEL ENVIRONMENTAL SERVICES
500 EASTERN AVENUE
BENSONVILLE, IL 60106

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

ATTN: MARK DOUGLAS

INVOICE # 32172 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168, **METHOD SW-846 8270**
SAUGET - SITE G **PAGE ONE**

SAMPLE ID: WA-38
LAB ID: 9505/353-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	880 µg/kg	U µg/kg
108-95-2	Phenol	880	U
111-44-4	bis(2-chloroethyl)Ether	880	U
95-57-8	2-Chlorophenol	880	U
541-73-1	1,3-Dichlorobenzene	880	U
106-46-7	1,4-Dichlorobenzene	880	U
100-51-6	Benzyl Alcohol	880	U
95-50-1	1,2-Dichlorobenzene	880	U
95-48-7	o-Cresol	880	U
39638-32-9	bis-(2-Chloro2propyl)Ether	880	U
106-44-5	m & p-Cresol	880	U
621-64-7	N-Nitroso-Di-n-propylamine	880	U
67-72-1	Hexachloroethane	880	U
98-95-3	Nitrobenzene	880	U
78-59-1	Isophorone	880	U
88-75-5	2-Nitrophenol	880	U
105-67-9	2,4-Dimethylphenol	880	U
65-85-0	Benzoic Acid	4,400	U
111-91-1	bis(2-Chloroethoxy)methane	880	U
120-83-2	2,4-Dichlorophenol	880	U
120-82-1	1,2,4-Trichlorobenzene	880	980
91-20-3	Naphthalene	880	U
106-47-8	4-Chloroaniline	880	990
87-68-3	Hexachlorobutadiene	880	U
59-50-7	4-Chloro-3-methylphenol	880	U
91-57-6	2-Methylnaphthalene	880	U
77-47-4	Hexachlorocyclopentadiene	880	U
88-06-2	2,4,6-Trichlorophenol	880	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	880	U
88-74-4	2-Nitroaniline	4,400	U
131-11-3	Dimethylphthalate	880	U
103-33-3	Azobenzene	880	U
208-96-8	Acenaphthylene	880	U
606-20-2	2,6-Dinitrotoluene	880	U
99-09-2	3-Nitroaniline	4,400	U
83-32-9	Acenaphthene	880	U
51-28-5	2,4-Dinitrophenol	4,400	U

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

RIEDEL ENVIRONMENTAL SERVICES
500 EASTERN AVENUE
BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 32172 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168, **METHOD SW-846 8270**
SAUGET - SITE G **PAGE TWO**

SAMPLE ID: WA-38
LAB ID: 9505/353-004

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	4,400 µg/kg	U µg/kg
132-64-9	Dibenzofuran	880	U
121-14-2	2,4-Dinitrotoluene	880	U
84-66-2	Diethylphthalate	880	U
7005-72-3	4-Chlorophenol phenyl ether	880	U
86-73-7	Fluorene	880	U
100-01-6	4-Nitroaniline	4,400	U
534-52-1	4,6-Dinitro-2-methylphenol	4,400	U
86-30-6	N-Nitrosodiphenylamine	880	U
101-55-3	4-Bromophenyl phenyl ether	880	U
118-74-1	Hexachlorobenzene	880	U
87-86-5	Pentachlorophenol	4,400	U
85-01-8	Phenanthrene	880	U
120-12-7	Anthracene	880	U
84-74-2	Carbazole	880	U
84-74-2	Di-n-butylphthalate	880	U
206-44-0	Fluoranthene	880	U
92-87-4	Benzidine	880	U
129-00-0	Pyrene	880	U
85-68-7	Butylbenzylphthalate	880	U
91-94-1	3,3'-Dichlorobenzidine	880	U
56-55-3	Benzo(a)anthracene	880	950
218-01-9	Chrysene	880	U
117-81-7	bis(2-Ethylhexyl)phthalate	880	U
117-84-0	Di-n-octylphthalate	880	U
205-99-2	Benzo(b)fluoranthene	880	U
207-08-9	Benzo(k)fluoranthene	880	U
50-32-8	Benzo(a)pyrene	880	U
193-39-5	Indeno(1,2,3-cd)pyrene	880	U
53-70-3	Dibenzo(a,h)anthracene	880	U
191-24-2	Benzo(g,h,i)perylene	880	U

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

DATE COLLECTED : 5/20/95 15:00
DATE RECEIVED : 5/22/95 16:14
DATE EXTRACTED : 5/24/95
DATE ANALYZED : 5/31/95
ANALYST : D.C.

JUNE 2, 1995

WAYNE L. COOPER Ph.D
LABORATORY DIRECTOR