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(314) 427-0550

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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 # 31932
PROJECT # 8168 - SAUGET LANDFILL, SITE G

ANALYSIS RESULTS

SAMPLE ID: OP-2 OILPIT
LAB ID: 9505/96-001
DATE COLLECTED: 5/3/95 13:00
DATE RECEIVED: 5/4/95 15:16

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS		ANALYST
METALS ANALYSIS	SW-846 6010	TOTAL		
ARSENIC		<11.4	mg/kg	5/10/95 R.D.
BARIUM		137		
CADMIUM		0.456		
CHROMIUM		10.7		
COPPER		34.1		
LEAD		81.5		
NICKEL		187		
SELENIUM		<11.4		
SILVER		<0.57		
ZINC		147		
MERCURY	SW-846 7471	<0.13		5/10/95 D.S.

MAY 15, 1995

WAYNE L. COOPER PhD
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 # 31932
PROJECT # 8168 - SAUGET LANDFILL, SITE G

ANALYSIS RESULTS

SAMPLE ID: RB-1 RED-BLACK SOLID
LAB ID: 9505/96-003
DATE COLLECTED: 5/3/95 17:00
DATE RECEIVED: 5/4/95 15:16

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS		ANALYST
METALS ANALYSIS	SW-846 6010	TOTAL		
ARSENIC		<14.8	mg/kg	5/10/95 R.D.
BARIUM		<2.96		
CADMIUM		0.444		
CHROMIUM		25.5		
COPPER		53.3		
LEAD		9.55		
NICKEL		9.85		
SELENIUM		<14.8		
SILVER		<0.741		
ZINC		28.1		
MERCURY	SW-846 7471	<0.15		5/10/95 D.S.

MAY 15, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

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500 EASTERN AVENUE
BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 31932
PROJECT # 8168 - SAUGET LANDFILL, SITE G

QUALITY ASSURANCE QUALITY CONTROL REPORT

MATRIX SPIKE
ICP/AA WATER

SAMPLE ID: RB-1 RED-BLACK SOLID
LAB ID: 9505/96-003
DATE COLLECTED: 5/3/95 17:00
DATE RECEIVED: 5/4/95 15:16

ELEMENT	SAMPLE RESULT (mg/kg)	SPIKE LEVEL (mg/kg)	SPIKE RESULT (mg/kg)	% REC.
ARSENIC	<14.8	592	545	92
BARIUM	<2.96	592	560	95
CADMIUM	0.444	15	13.2	85
CHROMIUM	25.5	59	82.6	97
COPPER	53.3	74	110	77
LEAD	9.55	148	124	77
MERCURY	<0.15	1.48	1.20	81
NICKEL	9.850	148	146	92
SELENIUM	<14.8	592	643	109
SILVER	<0.741	15	13.1	87
ZINC	28.1	148	151	83

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BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 31932
PROJECT # 8168 - SAUGET LANDFILL, SITE G

ANALYSIS RESULTS

SAMPLE ID: MP-1 METAL PELLETS
LAB ID: 9505/96-004
DATE COLLECTED: 5/3/95 17:30
DATE RECEIVED: 5/4/95 15:16

TEST PERFORMED	METHOD OF ANALYSIS	RESULTS		ANALYST
METALS ANALYSIS	SW-846 6010	TOTAL		
ARSENIC		<44.1	mg/kg	5/10/95 R.D.
BARIUM		<8.82		
CADMIUM		<1.10		
CHROMIUM		<18.7		
COPPER		<5.51		
LEAD		<44.1		
NICKEL		<8.82		
SELENIUM		<44.1		
SILVER		<6.61		
ZINC		<4.41		
MERCURY	SW-846 7471	<0.11		5/10/95 D.S.

MAY 15, 1995

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ATTN: MARK DOUGLAS

INVOICE # 31932
PROJECT # 8168 - SAUGET LANDFILL, SITE G

ANALYSIS REPORT

PCBs IN SOIL

SW-846 8080

LAB NO.	SAMPLE NO.	IDENTIFICATION	TOTAL ppm	TYPE
PCB-3468		METHOD BLANK	<2	--
9505/96-001		OP-2 CILPIT 5/3/95 13:00	24	1254
9505/96-002		WHITE-1 WHITE POWDER 5/3/95 14:00	<2	--
9505/96-002 MATRIX SPIKE		WHITE-1 WHITE POWDER 5/3/95 14:00	49	1248
			98	%RECOVERY

DATE COLLECTED : 5/03/95
DATE RECEIVED : 5/04/95 15:16
DATE ANALYZED : 5/10/95
ANALYST : J.W.

MAY 15, 1995

WAYNE L. COOPER
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BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 31932
PROJECT # 8168 - SAUGET LANDFILL, SITE G

VOLATILE ORGANIC ANALYSIS
METHOD SW-846 8240

SAMPLE ID: METHOD BLANK
LAB ID: VDBLK129A

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10 µg/kg	U µg/kg
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)	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 : 5/9/95
ANALYST : L.C.

MAY 15, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

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Maryland Heights, MO 63043-3529
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RIEDEL ENVIRONMENTAL SERVICES
500 EASTERN AVENUE
BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 31932 **VOLATILE ORGANIC ANALYSIS**
PROJECT # 8168 - SAUGET **METHOD SW-846 8240**
LANDFILL, SITE G
SAMPLE ID: OP-2 OILPIT
LAB ID: 9505/96-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
74-87-3	Chloromethane	10,000 µg/kg	U µg/kg
74-83-9	Bromomethane	10,000	U
85-01-4	Vinyl Chloride	10,000	U
75-00-3	Chloroethane	10,000	U
75-09-2	Methylene Chloride	5,000	U
67-64-1	Acetone	100,000	U
107-02-8	Acrolein	100,000	U
75-15-0	Carbon Disulfide	100,000	U
107-13-1	Acrylonitrile	100,000	U
75-69-04	Trichlorofluoromethane	10,000	U
75-35-4	1,1-Dichloroethene	5,000	U
75-34-3	1,1-Dichloroethane	5,000	U
540-59-0	1,2-Dichloroethene (Total)	5,000	U
67-66-3	Chloroform	5,000	U
107-06-2	1,2-Dichloroethane	5,000	U
78-93-3	2-Butanone	100,000	U
71-55-6	1,1,1-Trichloroethane	5,000	U
56-23-5	Carbon Tetrachloride	5,000	U
108-05-4	Vinyl Acetate	50,000	U
75-27-4	Bromodichloromethane	5,000	U
78-87-5	1,2-Dichloropropane	5,000	U
10061-01-5	cis-1,3-Dichloropropene	5,000	U
79-01-6	Trichloroethene	5,000	U
124-48-1	Dibromochloromethane	5,000	U
79-00-5	1,1,2-Trichloroethane	5,000	U
71-43-2	Benzene	5,000	14,000
10061-02-6	trans-1,3-Dichloropropene	5,000	U
75-25-2	Bromoform	5,000	U
108-10-1	4-Methyl-2-Pentanone	50,000	U
591-78-6	2-Hexanone	50,000	U
127-18-4	Tetrachloroethene	5,000	U
79-34-5	1,1,2,2-Tetrachloroethane	5,000	U
108-88-3	Toluene	5,000	U
108-90-7	Chlorobenzene	5,000	U
100-41-4	Ethylbenzene	5,000	11,000
100-42-5	Styrene	5,000	U
1330-20-7	Xylene (Total)	5,000	7,700

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

MAY 15, 1995

DATE COLLECTED : 5/3/95 13:00
DATE RECEIVED : 5/4/95 15:16
DATE ANALYZED : 5/9/95
ANALYST : L.C.

WAYNE L. COOPER
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ATTN: MARK DOUGLAS

INVOICE # 31932
PROJECT # 8168 - SAUGET LANDFILL, SITE G

VOLATILE ORGANIC SURROGATE RECOVERY FORM

LAB ID	SAMPLE IDENTIFICATION	S1 1,2-DCA-d4	S2 TOL-d8	S3 BFB
VDBLK129A	METHOD BLANK	94	101	100
9505/96-001	OP-2 OILPIT	99	99	106

S1 - 1,2-DICHORORETHANE-d4

S2 - TOLUENE-d8

S3 - BROMOFLUOROBENZENE

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ATTN: MARK DOUGLAS

INVOICE # 31932 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168 - SAUGET **METHOD SW-846 8270**
LANDFILL, SITE G **PAGE ONE**

SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6298

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	330 µg/kg	U µg/kg
108-95-2	Phenol	330	U
111-44-4	bis(2-chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	o-Cresol	330	U
39638-32-9	bis-(2-Chloro2propyl)Ether	330	U
106-44-5	m & p-Cresol	330	U
621-64-7	N-Nitroso-Di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
65-85-0	Benzoic Acid	1,700	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	1,700	U
131-11-3	Dimethylphthalate	330	U
103-33-3	Azobenzene	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	1,700	U
83-32-9	Acenaphthene	330	U
51-28-5	2,4-Dinitrophenol	1,700	U

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BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 31932 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168 - SAUGET **METHOD SW-846 8270**
LANDFILL, SITE G **PAGE TWO**

SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6298

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	1,700 µg/kg	U µg/kg
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
7005-72-3	4-Chlorophenol phenyl ether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	1,700	U
534-52-1	4,6-Dinitro-2-methylphenol	1,700	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl phenyl ether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	1,700	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
84-74-2	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
92-87-4	Benzidine	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	330	U
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

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

MAY 15, 1995

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 5/8/95
DATE ANALYZED : 5/9/95
ANALYST : D.C.

WAYNE L. COOPER
LABORATORY DIRECTOR

ENVIRONMETRICS
2345 Millpark Drive
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RIEDEL ENVIRONMENTAL SERVICES
500 EASTERN AVENUE
BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 31932 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168 - SAUGET **METHOD SW-846 8270**
LANDFILL, SITE G **PAGE ONE**

SAMPLE ID: OP-2 OILPIT
LAB ID: 9505/96-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	670,000 µg/kg	U µg/kg
108-95-2	Phenol	670,000	U
111-44-4	bis(2-chloroethyl)Ether	670,000	U
95-57-8	2-Chlorophenol	670,000	U
541-73-1	1,3-Dichlorobenzene	670,000	U
106-46-7	1,4-Dichlorobenzene	670,000	U
100-51-6	Benzyl Alcohol	670,000	1,400,000
95-50-1	1,2-Dichlorobenzene	670,000	U
95-48-7	o-Cresol	670,000	U
39638-32-9	bis-(2-Chloro2propyl)Ether	670,000	U
106-44-5	m & p-Cresol	670,000	U
621-64-7	N-Nitroso-Di-n-propylamine	670,000	U
67-72-1	Hexachloroethane	670,000	U
98-95-3	Nitrobenzene	670,000	U
78-59-1	Isophorone	670,000	U
88-75-5	2-Nitrophenol	670,000	U
105-67-9	2,4-Dimethylphenol	670,000	U
65-85-0	Benzoic Acid	3,400,000	U
111-91-1	bis(2-Chloroethoxy)methane	670,000	U
120-83-2	2,4-Dichlorophenol	670,000	U
120-82-1	1,2,4-Trichlorobenzene	670,000	U
91-20-3	Naphthalene	670,000	2,100,000
106-47-8	4-Chloroaniline	670,000	U
87-68-3	Hexachlorobutadiene	670,000	U
59-50-7	4-Chloro-3-methylphenol	670,000	U
91-57-6	2-Methylnaphthalene	670,000	880,000
77-47-4	Hexachlorocyclopentadiene	670,000	U
88-06-2	2,4,6-Trichlorophenol	670,000	U
95-95-4	2,4,5-Trichlorophenol	670,000	U
91-58-7	2-Chloronaphthalene	670,000	U
88-74-4	2-Nitroaniline	3,400,000	U
131-11-3	Dimethylphthalate	670,000	U
103-33-3	Azobenzene	670,000	U
208-96-8	Acenaphthylene	670,000	U
606-20-2	2,6-Dinitrotoluene	670,000	U
99-09-2	3-Nitroaniline	3,400,000	U
83-32-9	Acenaphthene	670,000	U
51-28-5	2,4-Dinitrophenol	3,400,000	U

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RIEDEL ENVIRONMENTAL SERVICES
500 EASTERN AVENUE
BENSONVILLE, IL 60106

ATTN: MARK DOUGLAS

INVOICE # 31932 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168 - SAUGET **METHOD SW-846 8270**
LANDFILL, SITE G **PAGE TWO**

SAMPLE ID: OP-2 OILPIT
LAB ID: 9505/96-001

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	3,400,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	670,000	U
121-14-2	2,4-Dinitrotoluene	670,000	U
84-66-2	Diethylphthalate	670,000	U
7005-72-3	4-Chlorophenol phenyl ether	670,000	U
86-73-7	Fluorene	670,000	U
100-01-6	4-Nitroaniline	3,400,000	U
534-52-1	4,6-Dinitro-2-methylphenol	3,400,000	U
86-30-6	N-Nitrosodiphenylamine	670,000	U
101-55-3	4-Bromophenyl phenyl ether	670,000	U
118-74-1	Hexachlorobenzene	670,000	U
87-86-5	Pentachlorophenol	3,400,000	U
85-01-8	Phenanthrene	670,000	750,000
120-12-7	Anthracene	670,000	U
84-74-2	Carbazole	670,000	U
84-74-2	Di-n-butylphthalate	670,000	U
206-44-0	Fluoranthene	670,000	U
92-87-4	Benzidine	670,000	U
129-00-0	Pyrene	670,000	U
85-68-7	Butylbenzylphthalate	670,000	U
91-94-1	3,3'-Dichlorobenzidine	670,000	U
56-55-3	Benzo(a)anthracene	670,000	U
218-01-9	Chrysene	670,000	U
117-81-7	bis(2-Ethylhexyl)phthalate	670,000	U
117-84-0	Di-n-octylphthalate	670,000	U
205-99-2	Benzo(b)fluoranthene	670,000	U
207-08-9	Benzo(k)fluoranthene	670,000	U
50-32-8	Benzo(a)pyrene	670,000	U
193-39-5	Indeno(1,2,3-cd)pyrene	670,000	U
53-70-3	Dibenzo(a,h)anthracene	670,000	U
191-24-2	Benzo(g,h,i)perylene	670,000	U

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

DATE COLLECTED : 5/03/95 13:00
DATE RECEIVED : 5/04/95 15:16
DATE EXTRACTED : 5/08/95
DATE ANALYZED : 5/10/95
ANALYST : D.C.

MAY 15, 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 # 31932 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168 - SAUGET **METHOD SW-846 8270**
LANDFILL, SITE G **PAGE ONE**

SAMPLE ID: WHITE-1 WHITE POWDER
LAB ID: 9505/96-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	600,000 µg/kg	U µg/kg
108-95-2	Phenol	600,000	U
111-44-4	bis(2-chloroethyl)Ether	600,000	U
95-57-8	2-Chlorophenol	600,000	U
541-73-1	1,3-Dichlorobenzene	600,000	U
106-46-7	1,4-Dichlorobenzene	600,000	U
100-51-6	Benzyl Alcohol	600,000	U
95-50-1	1,2-Dichlorobenzene	600,000	U
95-48-7	o-Cresol	600,000	U
39638-32-9	bis-(2-Chloro2propyl)Ether	600,000	U
106-44-5	m & p-Cresol	600,000	U
621-64-7	N-Nitroso-Di-n-propylamine	600,000	U
67-72-1	Hexachloroethane	600,000	U
98-95-3	Nitrobenzene	600,000	U
78-59-1	Isophorone	600,000	U
88-75-5	2-Nitrophenol	600,000	U
105-67-9	2,4-Dimethylphenol	600,000	U
65-85-0	Benzoic Acid	3,000,000	U
111-91-1	bis(2-Chloroethoxy)methane	600,000	U
120-83-2	2,4-Dichlorophenol	600,000	U
120-82-1	1,2,4-Trichlorobenzene	600,000	U
91-20-3	Naphthalene	600,000	U
106-47-8	4-Chloroaniline	60,000,000	200,000,000
87-68-3	Hexachlorobutadiene	600,000	U
59-50-7	4-Chloro-3-methylphenol	600,000	U
91-57-6	2-Methylnaphthalene	600,000	U
77-47-4	Hexachlorocyclopentadiene	600,000	U
88-06-2	2,4,6-Trichlorophenol	600,000	U
95-95-4	2,4,5-Trichlorophenol	600,000	U
91-58-7	2-Chloronaphthalene	600,000	U
88-74-4	2-Nitroaniline	3,000,000	U
131-11-3	Dimethylphthalate	600,000	U
103-33-3	Azobenzene	600,000	U
208-96-8	Acenaphthylene	600,000	U
606-20-2	2,6-Dinitrotoluene	600,000	U
99-09-2	3-Nitroaniline	3,000,000	U
83-32-9	Acenaphthene	600,000	U
51-28-5	2,4-Dinitrophenol	3,000,000	U

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ATTN: MARK DOUGLAS

INVOICE # 31932 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168 - SAUGET **METHOD SW-846 8270**
LANDFILL, SITE G **PAGE TWO**

SAMPLE ID: WHITE-1 WHITE POWDER
LAB ID: 9505/96-002

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	3,000,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	600,000	U
121-14-2	2,4-Dinitrotoluene	600,000	U
84-66-2	Diethylphthalate	600,000	U
7005-72-3	4-Chlorophenol phenyl ether	600,000	U
86-73-7	Fluorene	600,000	U
100-01-6	4-Nitroaniline	3,000,000	U
534-52-1	4,6-Dinitro-2-methylphenol	3,000,000	U
86-30-6	N-Nitrosodiphenylamine	600,000	U
101-55-3	4-Bromophenyl phenyl ether	600,000	U
118-74-1	Hexachlorobenzene	600,000	U
87-86-5	Pentachlorophenol	3,000,000	U
85-01-8	Phenanthrene	600,000	U
120-12-7	Anthracene	600,000	U
84-74-2	Carbazole	600,000	U
84-74-2	Di-n-butylphthalate	600,000	U
206-44-0	Fluoranthene	600,000	U
92-87-4	Benzidine	600,000	U
129-00-0	Pyrene	600,000	U
85-68-7	Butylbenzylphthalate	600,000	U
91-94-1	3,3'-Dichlorobenzidine	600,000	U
56-55-3	Benzo(a)anthracene	600,000	U
218-01-9	Chrysene	600,000	U
117-81-7	bis(2-Ethylhexyl)phthalate	600,000	U
117-84-0	Di-n-octylphthalate	600,000	U
205-99-2	Benzo(b)fluoranthene	600,000	U
207-08-9	Benzo(k)fluoranthene	600,000	U
50-32-8	Benzo(a)pyrene	600,000	U
193-39-5	Indeno(1,2,3-cd)pyrene	600,000	U
53-70-3	Dibenzo(a,h)anthracene	600,000	U
191-24-2	Benzo(g,h,i)perylene	600,000	U

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

MAY 15, 1995

DATE COLLECTED : 5/03/95 14:00
DATE RECEIVED : 5/04/95 15:16
DATE EXTRACTED : 5/08/95
DATE ANALYZED : 5/09 & 10/95
ANALYST : D.C.

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 # 31932 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168 - SAUGET **METHOD SW-846 8270**
LANDFILL, SITE G **PAGE ONE**

SAMPLE ID: RB-1 RED-BLACK SOLID
LAB ID: 9505/96-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
62-75-9	N-Nitrosodimethylamine	740,000 µg/kg	U µg/kg
108-95-2	Phenol	740,000	U
111-44-4	bis(2-chloroethyl)Ether	740,000	U
95-57-8	2-Chlorophenol	740,000	U
541-73-1	1,3-Dichlorobenzene	740,000	U
106-46-7	1,4-Dichlorobenzene	740,000	U
100-51-6	Benzyl Alcohol	740,000	U
95-50-1	1,2-Dichlorobenzene	740,000	U
95-48-7	o-Cresol	740,000	U
39638-32-9	bis-(2-Chloro2propyl)Ether	740,000	U
106-44-5	m & p-Cresol	740,000	U
621-64-7	N-Nitroso-Di-n-propylamine	740,000	U
67-72-1	Hexachloroethane	740,000	U
98-95-3	Nitrobenzene	740,000	U
78-59-1	Isophorone	740,000	U
88-75-5	2-Nitrophenol	740,000	U
105-67-9	2,4-Dimethylphenol	740,000	U
65-85-0	Benzoic Acid	3,700,000	U
111-91-1	bis(2-Chloroethoxy)methane	740,000	U
120-83-2	2,4-Dichlorophenol	740,000	U
120-82-1	1,2,4-Trichlorobenzene	740,000	U
91-20-3	Naphthalene	740,000	U
106-47-8	4-Chloroaniline	740,000	U
87-68-3	Hexachlorobutadiene	740,000	U
59-50-7	4-Chloro-3-methylphenol	740,000	U
91-57-6	2-Methylnaphthalene	740,000	U
77-47-4	Hexachlorocyclopentadiene	740,000	U
88-06-2	2,4,6-Trichlorophenol	740,000	U
95-95-4	2,4,5-Trichlorophenol	740,000	U
91-58-7	2-Chloronaphthalene	740,000	U
88-74-4	2-Nitroaniline	3,700,000	U
131-11-3	Dimethylphthalate	740,000	U
103-33-3	Azobenzene	740,000	U
208-96-8	Acenaphthylene	740,000	U
606-20-2	2,6-Dinitrotoluene	740,000	U
99-09-2	3-Nitroaniline	3,700,000	U
83-32-9	Acenaphthene	740,000	U
51-28-5	2,4-Dinitrophenol	3,700,000	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 # 31932 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168 - SAUGET **METHOD SW-846 8270**
LANDFILL, SITE G **PAGE TWO**

SAMPLE ID: RB-1 RED-BLACK SOLID
LAB ID: 9505/96-003

CAS NUMBER		PRACTICAL QUANTITATION LIMIT	RESULTS
100-02-7	4-Nitrophenol	3,700,000 µg/kg	U µg/kg
132-64-9	Dibenzofuran	740,000	U
121-14-2	2,4-Dinitrotoluene	740,000	U
84-66-2	Diethylphthalate	740,000	U
7005-72-3	4-Chlorophenol phenyl ether	740,000	U
86-73-7	Fluorene	740,000	U
100-01-6	4-Nitroaniline	3,700,000	U
534-52-1	4,6-Dinitro-2-methylphenol	3,700,000	U
86-30-6	N-Nitrosodiphenylamine	740,000	U
101-55-3	4-Bromophenyl phenyl ether	740,000	U
118-74-1	Hexachlorobenzene	740,000	U
87-86-5	Pentachlorophenol	3,700,000	U
85-01-8	Phenanthrene	740,000	U
120-12-7	Anthracene	740,000	U
84-74-2	Carbazole	740,000	U
84-74-2	Di-n-butylphthalate	740,000	U
206-44-0	Fluoranthene	740,000	U
92-87-4	Benzidine	740,000	U
129-00-0	Pyrene	740,000	U
85-68-7	Butylbenzylphthalate	740,000	U
91-94-1	3,3'-Dichlorobenzidine	740,000	U
56-55-3	Benzo(a)anthracene	740,000	U
218-01-9	Chrysene	740,000	U
117-81-7	bis(2-Ethylhexyl)phthalate	740,000	U
117-84-0	Di-n-octylphthalate	740,000	U
205-99-2	Benzo(b)fluoranthene	740,000	U
207-08-9	Benzo(k)fluoranthene	740,000	U
50-32-8	Benzo(a)pyrene	740,000	U
193-39-5	Indeno(1,2,3-cd)pyrene	740,000	U
53-70-3	Dibenzo(a,h)anthracene	740,000	U
191-24-2	Benzo(g,h,i)perylene	740,000	U

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

MAY 15, 1995

DATE COLLECTED : 5/03/95 17:00
DATE RECEIVED : 5/04/95 15:16
DATE EXTRACTED : 5/08/95
DATE ANALYZED : 5/10/95
ANALYST : D.C.

WAYNE L. COOPER
LABORATORY DIRECTOR

SEMIVOLATILE ORGANICS MATRIX SPIKE SAMPLE

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

Lab Name: Environmetrics Contract: RIEDEL

Lab Code: 8270 Case No.: SAS No.: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9505-096-001

Sample wt/vol: 2.0 (g/ml) g Lab File ID: >A6802

Level: (low/med) LOW Date Received: 05/04/95

% Moisture: 16.0 decanted: (Y/N) N Date Extracted: 05/08/95

Concentrated Extract Volume: 100,000 (uL) Date Analyzed: 05/09/95

Injection Volume: 1.0 (uL) Dilution Factor: 60,000

GPC Cleanup: (Y/N) N pH: NA

COMPOUND	Conc.	Sample	Spike	Recovery
Phenol	820000	0	1200000	69
2-Chlorophenol	980000	0	1200000	82
1,4-Dichlorobenzene	520000	0	600000	86
N-Nitroso-Di-nPropylamine	[illegible]	0	600000	0
1,2,4-Trichlorobenzene	640000	0	600000	107
4-Chloro-3-Methylphenol	1020000	0	1200000	85
Acenaphthene	[illegible]	0	600000	123
4-Nitrophenol	680000	0	1200000	58
2,4-Dinitrotoluene	600000	0	600000	101
Pentachlorophenol	640000	0	1200000	54
Pyrene	810000	0	600000	135

FORM XI SV-3 3/90 Rev

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

Lab Name: Environmetrics Contract: RIEDEL

Lab code: Case No.: DRY SAS No.: SDG No.:

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	9505096-2DL	0	0	0	0	0	0	0	0	0
02	9505096001	83	116	146 *	137	79	91	63	67	1
03	9505096003	88	123	152 *	144 *	83	94	92	114	2
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(23-120)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S4 (TPH)	= Terphenyl-d14	(18-137)	
S5 (PHL)	= Phenol-d5	(24-113)	
S6 (2CP)	= 2-Chlorophenol-d4	(24-113)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(25-121)	
S8 (TBP)	= 2,4,6-Tribromophenol	(19-122)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

Page __ of __.

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SOIL SEMIVOLATILE SURROGATE RECOVERY

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

Lab Name: Environmetrics Contract: RIEDEL

Lab code: Case No.: DRY SAS No.: SDG No.:

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (DCB)#	S3 (FBP)#	S4 (TPH)#	S5 (PHL)#	S6 (2CP)#	S7 (2FP)#	S8 (TBP)#	TOT OUT
01	SASBLK6298	79	98	107	121	76	78	71	82	0
02	9505096002	79	110	140 *	131	74	82	82	84	1
03	9505096-2MS	77	111	141 *	154 *	73	82	79	85	2
04	SASBLK6298	75	97	101	115	74	78	72	87	0
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (DCB)	= 1,2-Dichlorobenzene-d4	(23-120)	(advisory)
S3 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S4 (TPH)	= Terphenyl-d14	(18-137)	
S5 (PHL)	= Phenol-d5	(24-113)	
S6 (2CP)	= 2-Chlorophenol-d4	(24-113)	(advisory)
S7 (2FP)	= 2-Fluorophenol	(25-121)	
S8 (TBP)	= 2,4,6-Tribromophenol	(19-122)	

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

FORM II SV-2 3/90 Rev

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