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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 # 31339 **SEMIVOLATILE ORGANIC COMPOUNDS**
PROJECT # 8168 SAUGET **METHOD SW-846 8270**
LANDFILL SITE G **PAGE ONE**

SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6174

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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ATTN: KEN BRAIG

INVOICE # 31339 SEMIVOLATILE ORGANIC COMPOUNDS
PROJECT # 8168 SAUGET METHOD SW-846 8270
LANDFILL SITE G PAGE TWO

SAMPLE ID: METHOD BLANK
LAB ID: SASBLK6174

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

DATE COLLECTED : ---
DATE RECEIVED : ---
DATE EXTRACTED : 3/30/95
DATE ANALYZED : 4/03/95
ANALYST : D.C.

APRIL 4, 1995

WAYNE L. COOPER
LABORATORY DIRECTOR

2D

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	SASBLK6174	78	75	90	105	84	78	88	105	0
02	9503436002	92	108	119 *	158 *	96	99	95	83	2
03	9503436002MS	77	88	99	119	81	80	77	86	0
04	9503436007	82	92	106	129	85	86	84	85	0
05	SASLCS6174	82	81	81	111	82	70	90	123 *	1
06										
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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

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11B

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS MATRIX SPIKE SAMPLE

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

Lab Name: Environmetrics Contract: RIEDEL

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

Matrix: (soil/water) SOIL Lab Sample ID: 9503-436-002

Sample wt/vol: 30 (g/ml) g Lab File ID: >A6406

Level: (low/med) LOW Date Received: 03/27/95

% Moisture: 6.7 decanted: (Y/N) N Date Extracted: 03/30/95

Concentrated Extract Volume: 5000 (uL) Date Analyzed: 04/03/95

Injection Volume: 1.0 (uL) Dilution Factor: 178

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

COMPOUND	Conc.	Spike	Recovery
Phenol	5500	6700	78
2-Chlorophenol	4900	6700	69
1,4-Dichlorobenzene	2700	3300	76
N-Nitroso-Di-nPropylamine	3100	3300	87
1,2,4-Trichlorobenzene	3300	3300	93
4-Chloro-3-Methylphenol	5600	6700	79
Acenaphthene	2800	3300	79
4-Nitrophenol	4500	6700	64
2,4-Dinitrotoluene	2000	3300	56
Pentachlorophenol	1900	6700	26
Pyrene	3800	3300	54

FORM XI SV-3 3/90 Rev