P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

MAK 11/12/81

CHEMICAL RECOVERY
ORGANICS ANALYSIS DATA SHEET

Sample Number
E0759 145831
OH-293-20

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-170

QC REPORT NO. 9

Dup. Downstream of C.R. ED BRIESCH F5-8104-5

82MR01517

1215-81 KJ

ACID COMPOUNDS		ug/l
21A	2,4,6- trichlorophenol	*
22A	p-chloro-m-cresol	10
24A	2- chlorophenol	10
31A	2,4-dichlorophenol	12.
34A	2,4- dimethylphenol	10
57A	2- nitrophenol	10
58A	4- nitrophenol	10
59A	2,4- dinitrophenol	10
60A	4,6- dinitro-o-cresol	10
64A	pentachlorophenol	10
65A	phenol	10

BASE/NEUTRAL COMPOUNDS		
1B	acenaphthene	10
5B	benzidine	10
8B	1,2,4- trichlorobenzene	10
9B	hexachlorobenzene	10
12B	hexachloroethane	10
18B	bis(2-chloroethyl)ether	10
20B	2-chloronaphthalene	10
25B	1,2-dichlorobenzene	*
26B	1,3-dichlorobenzene	10
27B	1,4-dichlorobenzene	10
28B	3,3'-dichlorobenzidine	10
35B	2,4- dinitrotoluene	10
36B	2,6- dinitrotoluene	10
37B	1,2- diphenylhydrazine (as azobenzene)	10
39B	fluoranthene	10
40B	4- chlorophenyl phenyl ether	10

BASE/NEUTRAL COMPOUNDS		ug/l
41B	4-bromophenyl phenyl ether	10
42B	bis (2-chloroisopropyl) ether	10
43B	bis (2-chloroethoxy) methane	10
52B	hexachlorobutadiene	10
53B	hexachlorocyclopentadiene	10
54B	isophorone	10
55B	naphthalene	10
56B	nitrobenzene	10
61B	N-nitrosodimethylamine	10
62B	N-nitrosodiphenylamine	10
63B	N-nitrosodi-n-propylamine	10
66B	bis (2-ethylhexyl) phthalate	10
67B	butyl benzyl phthalate	10
68B	di-n-butyl phthalate	10
69B	di-n-octyl phthalate	10
70B	diethyl phthalate	*
71B	dimethyl phthalate	10
72B	benzo(a)anthracene	10
73B	benzo(a)pyrene	10
74B	3,4-benzofluoranthene	10
75B	benzo(k)fluoranthene	10
76B	chrysene	10
77B	acenaphthylene	10
78B	anthracene	10
79B	benzo(ghi)perylene	10
80B	fluorene	10
81B	phenanthrene	10
82B	dibenzo(a,h)anthracene	10
83B	indeno(1,2,3-cd)pyrene	10
84B	pyrene	10

Sample Number
E0759

ORGANICS ANALYSIS DATA SHEET - Page 2

ABORATORY NAME ENERGY RESOURCES CO. INC.

AB SAMPLE ID NO. 25-170

C REPORT NO. 9

	VOLATILES	ug/l
/	acrolein	ND
/	acrylonitrile	ND
/	benzene	ND
/	carbon tetrachloride	ND
/	chlorobenzene	ND
)V	1,2-dichloroethane	ND
1V	1,1,1-trichloroethane	ND
3V	1,1-dichloroethane	ND
4V	1,1,2-trichloroethane	ND
5V	1,1,2,2-tetrachloroethane	ND
6V	chloroethane	ND
9V	2-chloroethylvinyl ether	ND
3V	chloroform	ND
9V	1,1-dichloroethylene	ND
0V	1,2-trans-dichloroethylene	*
2V	1,2-dichloropropane	ND
3V	1,3-dichloropropylene	ND
8V	ethylbenzene	ND
4V	methylene chloride	50
5V	methyl chloride	ND
6V	methyl bromide	ND
7V	bromoform	ND
8V	dichlorobromomethane	ND
9V	trichlorofluoromethane	ND
0V	dichlorodifluoromethane	ND
1V	chlorodibromomethane	ND
5V	tetrachloroethylene	ND
6V	toluene	ND
7V	trichloroethylene	ND
8V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l
(pesticides less than 0.1 ug/l)

ND = Not detected

Lab Name: ENERGY RESOURCES CO. INC.

QC Report No: 9

Case 628
Sample Number
E 0759

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d_6-phenol	Acid	50.	100.	50%
fluorophenol	Acid	84.	100.	84%
d_5-nitrobenzene	B/N	112.	100.	112%
d_8-naphthalene	B/N	100.	100.	100%
d_5-pyridine	B/N	99.	100.	99%
d_6-benzene	VOA	98.	100.	98%
d_8-toluene	VOA	103.	100.	103%

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: (specify)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.			103	

ENVIRONMENTAL PROTECTION AGENCY - [illegible]
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

MAR 11/12/81

11/20/81 DB

OH-293-20

Case 6620
Sample Number
E 0758

ORGANICS ANALYSIS DATA SHEET

Down stream of Chemical Recovery

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-166

QC REPORT NO. 9

82 MRU1 S16
MARK HUTSON
FOS-8104-05
CHEMICAL RECOVERY

ACID COMPOUNDS		ug/l
21A	2,4,6- trichlorophenol	*
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	12
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

BASE/NEUTRAL COMPOUNDS		
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
18B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	*
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND

BASE/NEUTRAL COMPOUNDS		ug/l
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	ND
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	*
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

Case 628

Sample Number
E 0758

ORGANICS ANALYSIS DATA SHEET - Page 2

ABORATORY NAME ENERGY RESOURCES CO. INC.

AB SAMPLE ID NO. 25-166

C REPORT NO. 9

	VOLATILES	ug/l
1	acrolein	ND
1	acrylonitrile	ND
1	benzene	ND
1	carbon tetrachloride	ND
1	chlorobenzene	ND
0V	1,2-dichloroethane	ND
1V	1,1,1-trichloroethane	ND
3V	1,1-dichloroethane	ND
4V	1,1,2-trichloroethane	ND
5V	1,1,2,2-tetrachloroethane	ND
6V	chloroethane	ND
9V	2-chloroethylvinyl ether	ND
3V	chloroform	ND
9V	1,1-dichloroethylene	ND
0V	1,2-trans-dichloroethylene	*
2V	1,2-dichloropropane	ND
3V	1,3-dichloropropylene	ND
8V	ethylbenzene	ND
4V	methylene chloride	72
5V	methyl chloride	ND
6V	methyl bromide	ND
7V	bromoform	ND
8V	dichlorobromomethane	ND
9V	trichlorofluoromethane	ND
0V	dichlorodifluoromethane	ND
1V	chlorodibromomethane	ND
5V	tetrachloroethylene	ND
6V	toluene	ND
7V	trichloroethylene	ND
8V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l
(pesticides less than 0.1 ug/l)

ND = Not detected

Lab Name: ENERGY RESOURCES CO. INC.

QC Report No: 9

Case 628
Sample Number
E0758

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d_6-phenol	Acid	72.	100.	72%
fluorophenol	Acid	125.	100.	125%
d_5-nitrobenzene	B/N	123.	100.	123%
d_8-naphthalene	B/N	107.	100.	107%
d_5-pyridine	B/N	70.	100.	70%
d_6-benzene	VOA	88.	100.	88%
d_8-toluene	VOA	98.	100.	98%

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: ____ (specify)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

-11/5/1 CHEMICAL RECOVERY 11/6/8 CRB

U.S. ENVIRONMENTAL PROTECTION AGENCY - HWI Sample Management Office
P.O. Box 818 - Alexandria, Virginia 22313 - 703/ 557-2490/FTS-8-557-2490 FOS-8104-05

INORGANICS ANALYSIS DATA SHEET MARK HUTSON & MRO15 16 downstream from Chem. Recovery

585-210

LABORATORY NAME VERSAR SAMPLE NO. ME 8337

LAB SAMPLE ID NO. 6412 QC REPORT NO.

TASK 1 (Elements to be identified and measured)

		ug/l			ug/l
1.	Aluminum	400.	10.	Nickel	20.
2.	Chromium	<10.	11.	Manganese	80.
3.	Barium	60.	12.	Zinc	20.
4.	Beryllium	<2.	13.	Boron	90.
5.	Cadmium	<5.	14.	Vanadium	<10.
6.	Cobalt	<10.	15.	Calcium	70,100.
7.	Copper	<20.	16.	Magnesium	18,700
8.	Iron	620.	17.	Sodium	24,400.
9.	Lead	<40.			

TASK 2 (Elements to be identified and measured)

		ug/l			ug/l
1.	Arsenic	<10.[e]	5.	Mercury	<1.
2.	Antimony	<20.	6.	Tin	<40.[a]
3.	Selenium	<10.[e]	7.	Silver	<20.
4.	Thallium	<10.[e]			

TASK 3 (Elements to be identified and measured)

1.	Ammonia	mg/l	4.	Cyanide	mg/l
2.	Fluoride	mg/l	5.	pH	Units
3.	Sulfide	mg/l	6.	TOC	mg/l

COMMENTS:

a) with a detection limit of 40.
b) with a detection limit of
c) with a detection limit of
d) analyzed on a sample aliquot preserved with HCl from F/pH sample bottle
e) average of two replicate determinations
f) insufficient sample aliquot

U.S. ENVIRONMENTAL PROTECTION AGENCY - HWI Sample Management Office
P.O. Box 818, Alexandria, VA 22313 - 703/683-0885

MAK 11/12/81

11/20/81 CAB

Case 628
Sample Number
E0757

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-165

QC REPORT NO. 9

82 MR 01515
CHEMICAL RECOVERY
MARK HUTSON
FOS-8104-05
at sewer outfall - directly west of Chem Recovery

ACID COMPOUNDS		ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	14.
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

BASE/NEUTRAL COMPOUNDS		ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
18B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	140.
26B	1,3-dichlorobenzene	29.
27B	1,4-dichlorobenzene	37.
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND

BASE/NEUTRAL COMPOUNDS		ug/l
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	*
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	ND
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	*
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

Case 628

Sample Number
E0757

ORGANICS ANALYSIS DATA SHEET - Page 2

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25 - 165

REPORT NO. 9

	VOLATILES	ug/l
1	acrolein	ND
2	acrylonitrile	ND
3	benzene	15
4	carbon tetrachloride	*
5	chlorobenzene	ND
6V	1,2-dichloroethane	ND
7V	1,1,1-trichloroethane	320
8V	1,1-dichloroethane	52
9V	1,1,2-trichloroethane	ND
10V	1,1,2,2-tetrachloroethane	ND
11V	chloroethane	11
12V	2-chloroethylvinyl ether	ND
13V	chloroform	*
14V	1,1-dichloroethylene	ND
15V	1,2-trans-dichloroethylene	ND
16V	1,2-dichloropropane	ND
17V	1,3-dichloropropylene	ND
18V	ethylbenzene	ND
19V	methylene chloride	8500
20V	methyl chloride	ND
21V	methyl bromide	ND
22V	bromoform	ND
23V	dichlorobromomethane	*
24V	trichlorofluoromethane	ND
25V	dichlorodifluoromethane	ND
26V	chlorodibromomethane	ND
27V	tetrachloroethylene	420
28V	toluene	15
29V	trichloroethylene	1000
30V	vinyl chloride	100

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l
(pesticides less than 0.1 ug/l)

 ND = Not detected

Lab Name: ENERGY RESOURCES CO. INC.

QC Report No: 9

Case 628

Sample Number E0757

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d_6-phenol	Acid	43.	100.	43%
fluorophenol	Acid	73.	100.	73%
d_5-nitrobenzene	B/N	115.	100.	115%
d_8-naphthalene	B/N	87.	100.	87%
d_5-pyridine	B/N	86.	100.	86%
d_6-benzene	VOA	115.	100.	115%
d_8-toluene	VOA	125.	100.	125%

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: HP PBS (specify)
1.	000085 1441	R.T. = 12.5 1,2,4-trichloro-5-ethyl Benzene	Acid	Computer match. 74.14 %
2.		R.T. = 14.1 Unknown	Acid	No good matches
3.	00000 95476	R.T. = 4.8 1,2-dimethyl-benzene	B/N	Computer match 98.04%
4.	00001 06423	R.T. = 5.9 1,4-dimethyl-benzene	B/N	Computer match 98.08%
5.	00000 95476	R.T = 32.8 1,2 dimethyl benzene	VOA	Computer match 98.08%
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
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16.				
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20.				

11/3/81

CHEMICAL RECOVERY 11/6/81 GB
F05-8104-05

U.S. ENVIRONMENTAL PROTECTION AGENCY - HWI Sample Management Office
P.O. Box 818 - Alexandria, Virginia 22313 - 703/ 557-2490/FTS-8-557-2490

MARK HUTSON

INORGANICS ANALYSIS DATA SHEET

82MR01S15

585-210

Sewer outfall west of Chemical Recovery

LABORATORY NAME VERSAR SAMPLE NO. MS 8336

LAB SAMPLE ID NO. 6411 QC REPORT NO.

TASK 1 (Elements to be identified and measured)

		ug/l			ug/l
1.	Aluminum	200.	10.	Nickel	1,890.
2.	Chromium	<10.	11.	Manganese	450.
3.	Barium	140.	12.	Zinc	80.
4.	Beryllium	<2.	13.	Boron	140.
5.	Cadmium	20.	14.	Vanadium	<10.
6.	Cobalt	<10.	15.	Calcium	86,400.
7.	Copper	40.	16.	Magnesium	19,100.
8.	Iron	1,660.	17.	Sodium	39,200.
9.	Lead	<40.			

TASK 2 (Elements to be identified and measured)

		ug/l			ug/l
1.	Arsenic	<10.	5.	Mercury	<1.
2.	Antimony	20.	6.	Tin	(g)
3.	Selenium	10.	7.	Silver	<20.
4.	Thallium	50.			

TASK 3 (Elements to be identified and measured)

1.	Ammonia	mg/l	4.	Cyanide	mg/l
2.	Fluoride	mg/l	5.	pH	Units
3.	Sulfide	mg/l	6.	TOC	mg/l

COMMENTS:

a) with a detection limit of
b) with a detection limit of
c) with a detection limit of
d) analyzed on a sample aliquot preserved with HCl from F/pH sample bottle
e) average of two replicate determinations
f) insufficient sample aliquot
g) chemical interference

S. ENVIRONMENTAL PROTECTION AGENCY - HWI Sample Management Office
O. Box 818, Alexandria, VA 22313 - 703/683-0885

11/12/81

11/20/81 CAB

Case 628
Sample Number
E 0756

ORGANICS ANALYSIS DATA SHEET

LABORATORY NAME ENERGY RESOURCES CO. INC.

LAB SAMPLE ID NO. 25-164

QC REPORT NO. 9

62 MR01514
CHEMICAL RECOVERY
MARK HUTSON
F5-8104-05
River Upstream of Chemical Recovery

ACID COMPOUNDS		ug/l
21A	2,4,6- trichlorophenol	ND
22A	p-chloro-m-cresol	ND
24A	2- chlorophenol	ND
31A	2,4-dichlorophenol	11.
34A	2,4- dimethylphenol	ND
57A	2- nitrophenol	ND
58A	4- nitrophenol	ND
59A	2,4- dinitrophenol	ND
60A	4,6- dinitro-o-cresol	ND
64A	pentachlorophenol	ND
65A	phenol	ND

BASE/NEUTRAL COMPOUNDS		ug/l
1B	acenaphthene	ND
5B	benzidine	ND
8B	1,2,4- trichlorobenzene	ND
9B	hexachlorobenzene	ND
12B	hexachloroethane	ND
18B	bis(2-chloroethyl)ether	ND
20B	2-chloronaphthalene	ND
25B	1,2-dichlorobenzene	*
26B	1,3-dichlorobenzene	ND
27B	1,4-dichlorobenzene	ND
28B	3,3'-dichlorobenzidine	ND
35B	2,4- dinitrotoluene	ND
36B	2,6- dinitrotoluene	ND
37B	1,2- diphenylhydrazine (as azobenzene)	ND
39B	fluoranthene	ND
40B	4- chlorophenyl phenyl ether	ND
41B	4-bromophenyl phenyl ether	ND
42B	bis (2-chloroisopropyl) ether	ND
43B	bis (2-chloroethoxy) methane	ND
52B	hexachlorobutadiene	ND
53B	hexachlorocyclopentadiene	ND
54B	isophorone	ND
55B	naphthalene	ND
56B	nitrobenzene	ND
61B	N-nitrosodimethylamine	ND
62B	N-nitrosodiphenylamine	ND
63B	N-nitrosodi-n-propylamine	ND
66B	bis (2-ethylhexyl) phthalate	*
67B	butyl benzyl phthalate	ND
68B	di-n-butyl phthalate	ND
69B	di-n-octyl phthalate	ND
70B	diethyl phthalate	*
71B	dimethyl phthalate	ND
72B	benzo(a)anthracene	ND
73B	benzo(a)pyrene	ND
74B	3,4-benzofluoranthene	ND
75B	benzo(k)fluoranthene	ND
76B	chrysene	ND
77B	acenaphthylene	ND
78B	anthracene	ND
79B	benzo(ghi)perylene	ND
80B	fluorene	ND
81B	phenanthrene	ND
82B	dibenzo(a,h)anthracene	ND
83B	indeno(1,2,3-cd)pyrene	ND
84B	pyrene	ND

Case 6028
Sample Number
E 0756

ORGANICS ANALYSIS DATA SHEET - Page 2

BORATORY NAME ENERGY RESOURCES CO. INC.

B SAMPLE ID NO. 25-164

REPORT NO. 9

	VOLATILES	ug/l
	acrolein	ND
	acrylonitrile	ND
	benzene	ND
	carbon tetrachloride	ND
	chlorobenzene	ND
V	1,2-dichloroethane	ND
V	1,1,1-trichloroethane	ND
V	1,1-dichloroethane	ND
V	1,1,2-trichloroethane	ND
V	1,1,2,2-tetrachloroethane	ND
V	chloroethane	ND
V	2-chloroethylvinyl ether	ND
V	chloroform	ND
V	1,1-dichloroethylene	ND
V	1,2-trans-dichloroethylene	ND
V	1,2-dichloropropane	ND
V	1,3-dichloropropylene	ND
V	ethylbenzene	ND
V	methylene chloride	ND
V	methyl chloride	34
V	methyl bromide	ND
V	bromoform	ND
V	dichlorobromomethane	ND
V	trichlorofluoromethane	ND
V	dichlorodifluoromethane	ND
V	chlorodibromomethane	ND
V	tetrachloroethylene	ND
V	toluene	ND
V	trichloroethylene	ND
V	vinyl chloride	ND

	PESTICIDES	ug/l
89P	aldrin	ND
90P	dieldrin	ND
91P	chlordane	ND
92P	4,4'-DDT	ND
93P	4,4'-DDE	ND
94P	4,4'-DDD	ND
95P	α -endosulfan	ND
96P	β -endosulfan	ND
97P	endosulfan sulfate	ND
98P	endrin	ND
99P	endrin aldehyde	ND
100P	heptachlor	ND
101P	heptachlor epoxide	ND
102P	α -BHC	ND
103P	β -BHC	ND
104P	δ -BHC	ND
105P	γ -BHC	ND
106P	PCB-1242	ND
107P	PCB-1254	ND
108P	PCB-1221	ND
109P	PCB-1232	ND
110P	PCB-1248	ND
111P	PCB-1260	ND
112P	PCB-1016	ND
113P	toxaphene	ND

	DIOXINS	
129B	2,3,7,8-tetrachlorodibenzo-p-dioxin	ND

*Less than 10 ug/l
(pesticides less than 0.1 ug/l)

ND = Not detected

Lab Name: ENERGY RESOURCES CO. INC.

QC Report No: 9

Case 628

Sample Number
E 0756

A. SURROGATE SPIKE RESULTS

COMPOUND	Fraction	Conc. (ug/l)	(Surrogates only) Spike Added (ug/l)	% Recovery
d_6-phenol	Acid	59.	100.	59%
fluorophenol	Acid	77.	100.	77%
d_5-nitrobenzene	B/N	131.	100.	131%
d_8-naphthalene	B/N	111.	100.	111%
d_5-pyridine	B/N	76.	100.	76%
d_6-benzene	VOA	103.	100.	103%
d_8-toluene	VOA	113.	100.	113%

B. TENTATIVELY IDENTIFIED COMPOUNDS

	CAS #	COMPOUND NAME	Fraction	% Maximum Score Attained Mass Matching Routine: (specify)
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				

11/1/81 CHEMICAL RECOVERY 11/6/81 OAB

U.S. ENVIRONMENTAL PROTECTION AGENCY - HWI Sample Management Office
P.O. Box 818 - Alexandria, Virginia 22313 - 703/ 557-2490/FTS-8-557-2490

FOS-8104-05

MARK HUTSON

INORGANICS ANALYSIS DATA SHEET

82-MR01514

585-210

upstream from Chemical Recovery

LABORATORY NAME VERSAR SAMPLE NO. ME 8335

LAB SAMPLE ID NO. 6410 QC REPORT NO.

TASK 1 (Elements to be identified and measured)

		ug/l			ug/l
1.	Aluminum	1,800.	10.	Nickel	<20.
2.	Chromium	<10.	11.	Manganese	130.
3.	Barium	90.	12.	Zinc	30.
4.	Beryllium	<2.	13.	Boron	90.
5.	Cadmium	<5.	14.	Vanadium	<10.
6.	Cobalt	<10.	15.	Calcium	68,500.
7.	Copper	40.	16.	Magnesium	18,100.
8.	Iron	2,660.	17.	Sodium	23,400.
9.	Lead	<40.			

TASK 2 (Elements to be identified and measured)

		ug/l			ug/l
1.	Arsenic	<10.	5.	Mercury	<1.
2.	Antimony	<20.[e]	6.	Tin	(g)[e]
3.	Selenium	<10.	7.	Silver	<20.
4.	Thallium	<10.			

TASK 3 (Elements to be identified and measured)

1.	Ammonia	mg/l	4.	Cyanide	mg/l
2.	Fluoride	mg/l	5.	pH	Units
3.	Sulfide	mg/l	6.	TOC	mg/l

COMMENTS:

a) with a detection limit of
b) with a detection limit of
c) with a detection limit of
d) analyzed on a sample aliquot preserved with HCl from F/pH sample bottle
e) average of two replicate determinations
f) insufficient sample aliquot
g) chemical interference