

RECEIVED JUL 12 1989

**Clayton Environmental Consultants, Inc.**

P.O. Box 9019 • 1252 Quarry Lane • Pleasanton, CA 94566 • (415) 426-2600

cc Karl  
Mary

July 10, 1989

Ms. Mary Scruggs  
ANANIA GEOLOGIC ENGINEERING  
P.O. Box 161148  
Sacramento, CA 95816

Client Ref. No.: 004-88-059  
Lab Batch No.: 8906302  
Clayton Project No.: 89063.02  
Client Code No: 0636


Dear Ms. Scruggs:

Attached is our analytical laboratory report for the samples received on June 30, 1989. A copy of the Chain of Custody form acknowledging receipt of these samples is attached.

Please note that any unused portion of the samples will be retained at our facility for approximately 30 days after the date of this report, unless you have requested otherwise.

We appreciate the opportunity to be of assistance to you. If you have any questions, please contact Maryann Gambino, Client Services Representative, at (415) 426-2657.

Sincerely,

  
Ronald H. Peters, CIH  
Manager, Laboratory Services

RHP/tb  
Attachment

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Page 2 of 7

EPA METHOD 8240  
PURGEABLE ORGANICS  
(LOW-LEVEL METHOD)

Sample I.D.: 1721 MW-19  
Sample Received: 06/30/89  
Sample Analyzed: 07/06/89  
Sample Matrix: WATER

Client: ANANIA GEOLOGIC ENGINEERING  
Client Ref. No.: 004-88-059  
Lab Client Code: 0636  
Lab No.: 8906302-01A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8240  
PURGEABLE ORGANICS  
(LOW-LEVEL METHOD)

Sample I.D.: Method Blank  
Sample Received: 06/30/89  
Sample Analyzed: 07/06/89  
Sample Matrix: WATER

Client: ANANIA GEOLOGIC ENGINEERING  
Client Ref. No.: 004-88-059  
Lab Client Code: 0636  
Lab No.: 8906302-02A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
Chloromethane	74-87-3	ND	10
Bromomethane	74-83-9	ND	4
Vinyl chloride	75-01-4	ND	4
Chloroethane	75-00-3	ND	4
Methylene chloride	75-09-2	ND	10
Trichlorofluoromethane	75-69-4	ND	3
1,1-dichloroethene	75-35-4	ND	3
1,1-dichloroethane	75-35-3	ND	3
Trans-1,2-dichloroethene	156-60-5	ND	3
Chloroform	67-66-3	ND	3
1,2-dichloroethane	107-06-2	ND	3
1,1,1-trichloroethane	71-55-6	ND	3
Carbon tetrachloride	56-23-5	ND	3
Bromodichloromethane	75-27-4	ND	3
1,2-dichloropropane	78-87-5	ND	3
Cis-1,3-dichloropropene	10061-01-5	ND	3
Trichloroethene	79-01-6	ND	4
Benzene	71-43-2	ND	2
Dibromochloromethane	124-48-1	ND	2
1,1,2-trichloroethane	79-00-5	ND	6
Trans-1,3-dichloropropene	10061-02-6	ND	5
2-chloroethylvinylether	100-75-8	ND	3
Bromoform	75-25-2	ND	3
1,1,2,2-tetrachloroethane	79-34-5	ND	4
Tetrachloroethene	127-18-4	ND	4
Toluene	108-88-3	ND	2
Chlorobenzene	108-90-7	ND	3
Ethylbenzene	100-41-4	ND	3
1,3-dichlorobenzene	541-73-7	ND	3
1,2-dichlorobenzene	95-50-1	ND	3
1,4-dichlorobenzene	106-46-7	ND	3
Freon 113	76-13-1	ND	3
Total Xylenes	1330-20-7	ND	3
Acetone	67-64-1	ND	20
2-Butanone	78-93-3	ND	20
4-Methyl-2-pentanone	108-10-1	ND	20
2-Hexanone	591-78-6	ND	20
Vinyl acetate	108-05-4	ND	10
Carbon disulfide	75-15-0	ND	3
Styrene	100-42-5	ND	3

ND = Not detected at or above limit of detection

EPA METHOD 8270  
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: 1721 MW-19

Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 06/30/89

Client Ref. No.: 004-88-059

Sample Extracted: 07/06/89

Sample Analyzed: 07/07/89

Lab Client Code: 0636

Sample Matrix: WATER

Lab No.: 8906302-01C

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
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ACID COMPOUNDS

Phenol	108-95-2	ND	10
2-chlorophenol	95-57-8	ND	10
2-methyl phenol	95-48-7	ND	10
4-methyl phenol	106-44-5	ND	10
2-nitrophenol	88-75-5	ND	10
2,4-dimethylphenol	105-67-9	ND	10
2,4-dichlorophenol	120-83-2	ND	10
4-chloro-3-methylphenol	59-50-7	ND	10
2,4,5-trichlorophenol	95-95-4	ND	10
2,4,6-trichlorophenol	88-06-2	ND	10
2,4-dinitrophenol	51-28-5	ND	50
4-nitrophenol	100-02-7	ND	50
2-methyl-4,6-dinitrophenol	534-52-1	ND	10
Pentachlorophenol	87-86-5	ND	10

BASE/NEUTRAL COMPOUNDS

N-nitrosodimethylamine	62-75-9	ND	50
Bis(2-chloroethyl)ether	111-44-4	ND	10
1,3-dichlorobenzene	541-73-7	ND	10
1,4-dichlorobenzene	106-46-7	ND	10
1,2-dichlorobenzene	95-50-1	ND	10
Bis-(2-chloroisopropyl)ether	108-60-1	ND	10
N-nitrosodi-n-propylamine	621-64-7	ND	10
Hexachloroethane	67-72-1	ND	10
Nitrobenzene	98-95-3	ND	10
Isophorone	78-59-1	ND	10
Bis-(2-chloroethoxy)methane	111-91-1	ND	10
1,2,4-trichlorobenzene	120-82-1	ND	10
Naphthalene	91-20-3	ND	10
Hexachlorobutadiene	87-68-3	ND	10
2-chloronaphthalene	91-58-7	ND	10
2-methyl naphthalene	91-57-6	ND	10

ND = Not detected at or above limit of detection

EPA METHOD 8270  
ACID & BASE/NEUTRAL EXTRACTABLES  
(Cont'd)

Sample I.D.: 1721 MW-19

Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
<u>BASE/NEUTRAL COMPOUNDS</u>			
4-chloroaniline	106-47-8	ND	50
2-nitroaniline	88-74-4	ND	50
3-nitroaniline	99-09-2	ND	50
4-nitroaniline	100-01-6	ND	50
Hexachlorocyclopentadiene	77-47-4	ND	10
Dimethyl phthalate	131-11-3	ND	100
Acenaphthylene	208-96-8	ND	10
Acenaphthene	83-32-9	ND	10
2,4-dinitrotoluene	121-14-2	ND	10
2,6-dinitrotoluene	606-20-2	ND	10
Diethyl phthalate	84-66-2	ND	10
4-chlorophenylphenylether	7005-72-3	ND	10
Fluorene	86-73-7	ND	10
N-nitrosodiphenylamine	86-30-6	ND	10
4-bromophenylphenylether	101-55-3	ND	10
Hexachlorobenzene	118-74-1	ND	10
Phenanthrene	85-01-8	ND	10
Anthracene	120-12-7	ND	10
Di-n-butylphthalate	84-74-2	ND	10
Fluoranthene	206-44-2	ND	10
Benzidine	92-87-5	ND	300
Pyrene	129-00-0	ND	10
Benzylbutylphthalate	85-68-7	ND	10
3,3'-dichlorobenzidine	91-94-1	ND	400
Benzo(a)anthracene	56-55-3	ND	10
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	100
Chrysene	218-01-9	ND	20
Di-n-octylphthalate	117-84-0	ND	10
Benzo(b)fluoranthene	205-99-2	ND	20
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Benzo(ghi)perylene	191-24-2	ND	10

ND = Not detected at or above limit of detection

EPA METHOD 8270  
ACID & BASE/NEUTRAL EXTRACTABLES

Sample I.D.: Method Blank

Client: ANANIA GEOLOGIC ENGINEERING

Sample Received: 06/30/89

Client Ref. No.: 004-88-059

Sample Extracted: 07/06/89

Lab Client Code: 0636

Sample Analyzed: 07/07/89

Sample Matrix: WATER

Lab No.: 8906302-02A

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
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ACID COMPOUNDS

Phenol	108-95-2	ND	10
2-chlorophenol	95-57-8	ND	10
2-methyl phenol	95-48-7	ND	10
4-methyl phenol	106-44-5	ND	10
2-nitrophenol	88-75-5	ND	10
2,4-dimethylphenol	105-67-9	ND	10
2,4-dichlorophenol	120-83-2	ND	10
4-chloro-3-methylphenol	59-50-7	ND	10
2,4,5-trichlorophenol	95-95-4	ND	10
2,4,6-trichlorophenol	88-06-2	ND	10
2,4-dinitrophenol	51-28-5	ND	50
4-nitrophenol	100-02-7	ND	50
2-methyl-4,6-dinitrophenol	534-52-1	ND	10
Pentachlorophenol	87-86-5	ND	10

BASE/NEUTRAL COMPOUNDS

N-nitrosodimethylamine	62-75-9	ND	50
Bis(2-chloroethyl)ether	111-44-4	ND	10
1,3-dichlorobenzene	541-73-7	ND	10
1,4-dichlorobenzene	106-46-7	ND	10
1,2-dichlorobenzene	95-50-1	ND	10
Bis-(2-chloroisopropyl)ether	108-60-1	ND	10
N-nitrosodi-n-propylamine	621-64-7	ND	10
Hexachloroethane	67-72-1	ND	10
Nitrobenzene	98-95-3	ND	10
Isophorone	78-59-1	ND	10
Bis-(2-chloroethoxy)methane	111-91-1	ND	10
1,2,4-trichlorobenzene	120-82-1	ND	10
Naphthalene	91-20-3	ND	10
Hexachlorobutadiene	87-68-3	ND	10
2-chloronaphthalene	91-58-7	ND	10
2-methyl naphthalene	91-57-6	ND	10

ND = Not detected at or above limit of detection

EPA METHOD 8270  
ACID & BASE/NEUTRAL EXTRACTABLES  
(Cont'd)

Sample I.D.: Method Blank

Client: ANANIA GEOLOGIC ENGINEERING

Compound	CAS #	Concentration ug/L	Limit of Detection ug/L
<u>BASE/NEUTRAL COMPOUNDS</u>			
4-chloroaniline	106-47-8	ND	50
2-nitroaniline	88-74-4	ND	50
3-nitroaniline	99-09-2	ND	50
4-nitroaniline	100-01-6	ND	50
Hexachlorocyclopentadiene	77-47-4	ND	10
Dimethyl phthalate	131-11-3	ND	100
Acenaphthylene	208-96-8	ND	10
Acenaphthene	83-32-9	ND	10
2,4-dinitrotoluene	121-14-2	ND	10
2,6-dinitrotoluene	606-20-2	ND	10
Diethyl phthalate	84-66-2	ND	10
4-chlorophenylphenylether	7005-72-3	ND	10
Fluorene	86-73-7	ND	10
N-nitrosodiphenylamine	86-30-6	ND	10
4-bromophenylphenylether	101-55-3	ND	10
Hexachlorobenzene	118-74-1	ND	10
Phenanthrene	85-01-8	ND	10
Anthracene	120-12-7	ND	10
Di-n-butylphthalate	84-74-2	ND	10
Fluoranthene	206-44-2	ND	10
Benzidine	92-87-5	ND	300
Pyrene	129-00-0	ND	10
Benzylbutylphthalate	85-68-7	ND	10
3,3'-dichlorobenzidine	91-94-1	ND	400
Benzo(a)anthracene	56-55-3	ND	10
Bis-(2-ethylhexyl)phthalate	117-81-7	ND	100
Chrysene	218-01-9	ND	20
Di-n-octylphthalate	117-84-0	ND	10
Benzo(b)fluoranthene	205-99-2	ND	20
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Benzo(ghi)perylene	191-24-2	ND	10

ND = Not detected at or above limit of detection

ANANIA GEOLOGIC ENGINEERING

AGE

1521

PROJECT NO. 004-88-059		LAB REPORT NO.		NO. OF CONTAINERS	ANALYSES						REMARKS		
P.D. NO.		SAMPLES: (signature) <i>Ph...</i>			SAMPLE TYPE			824X	827X				
LAB LOG NO.	DATE	TIME	SAMPLE I.D.		SOIL		WATER						
					COMP	GRAB							
	6-29-89	2:00	1721 mw19	5			X	X					
RELINQUISHED BY: (signature) <i>[Signature]</i>	DATE/TIME 6/29/89	RECEIVED BY: (signature) <i>For [Signature]</i>	REMARKS: <i>EDP (TAT)</i>		SEND RESULTS TO: ATTN: [Signature]			ENVIRONMENTAL <b>AGE</b> ENERGY MINERAL					
RELINQUISHED BY: (signature)	DATE/TIME 6/30/89/1:15	RECEIVED BY: (signature) <i>[Signature]</i>						ANANIA GEOLOGIC ENGINEERING 11330 Sunrise Park Dr., Suite C Rancho Cordova, CA 95742 PHONE NO. (916) 451-0821					
RELINQUISHED BY: (signature)	DATE/TIME	RECEIVED BY: (signature) 4/30/89 <i>Toney Salas</i> 2:30 PM						916-631-0159					

White - AGE Yellow - LAB Copy Pink - File

CHAIN OF CUSTODY

RECEIVED JUL 12 1989