UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
1445 ROSS AVENUE, SUITE 1200
DALLAS, TEXAS 75202

REPLY TO: 6E-SH

MEMORANDUM

DATE: December 14, 1988

SUBJECT: Analytical Results for Drinking Water Samples

FROM: Dave Wineman Ed Sierra for:
FITRPO, Region 6 (6E-SH)

TO: Tom Love
Chief
Public Water Supply Section (6W-SP)

Attached is a copy of the drinking water analysis for Air Center in Silverlake, Oklahoma. The following constituents were detected in the North Silver Lake Well and South Silver Lake Well at a significant level or have exceeded the National Interim Drinking Water Standards: Arsenic, Selenium, and Chromium. See attached report.

Attachment

9831266

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON TEXAS 77074

December 9, 1988

MEMORANDUM

SUBJECT: Notice of Intent to Dispose of Samples

FROM: Diana Ayers, Chief, Houston Branch; 6E-H

To: James Stiebing, Chief,
Surveillance Branch; 6E-S

The Houston Laboratory is required to dispose of all hazardous wastes we generate in a manner consistent with RCRA regulations. This includes all samples received for analysis provided we find them to contain contaminants which classify them as RCRA hazardous wastes.

I have included this memorandum in the final analytical report to serve as notice to the program that we have completed all analysis and intent to dispose of these samples within 30 days. Please note that even though original sample may be left over, it does not mean that a reanalysis of the sample may be requested since the sample has most likely exceeded its holding time and any subsequent analysis may not be valid.

If you have a need to hold these samples in custody longer than 30 days, please sign below and return this memorandum to me within the next 90 days. Also, state briefly your need to hold these samples in custody.

Thank you for your cooperation in this request.

Air Center (9TFAFB05)

Facility Name

Program Manager Date

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON, TEXAS 77074

MEMORANDUM

DATE: December 9, 1988

SUBJECT: Laboratory Results for Air Center (9TFAFB05)

FROM: Diana Ayers, Chief, Houston Branch; 6E-H

TO: James Stiebing, Chief, Surveillance Branch; 6E-S

ATT: Hank Thompson

Attached are the analytical results for the subject site. Four water samples were received for analysis on November 8, 1988.

Please note that Maximum Contaminant Levels for drinking water were exceeded in samples 01, 02, and 03.

This is a final report.

Attachments

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON TEXAS 77074

MEMORANDUM

Date: 12/04/88

Subject: Organic Laboratory Results for Air Center.

From: Michael Daggett, Chief, Organic Lab Section; 6E-HL

To: Diana Ayers, Chief, Houston Branch; 6E-H

Attached are the Organic Laboratory results for sample 9TFAFB0501 thru 9TFAFB0504. These samples were analyzed for ABNs, VOAs and pesticides. There were no target compounds detected.
This is a final report.

ATTACHMENTS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION VI
HOUSTON BRANCH
6608 HORNWOOD DRIVE
HOUSTON TEXAS 77074

December 9, 1988

MEMORANDUM

SUBJECT: Laboratory results for the Air Center.

FROM: M. Kendall Young, Chief
Inorganic Section

TO: Diana G. Ayers, Chief
Houston Branch Laboratory

Attached are laboratory results for the subject site. Four (4) water samples were received on November 8, 1988 to be analyzed for metals, alkalinity, hardness and cyanide.

The laboratory numbers assigned were 9TFAFB0501 through 9TFAFB0504.

Sample 9TFAFB0501 had a level of arsenic of 51.8 ug/l which exceeds the MCL for drinking water. Samples 9TFAFB0501, 9TFAFB0502 and 9TFAFB0503 had levels for chromium of 57ug/l, 60 ug/l and 53 ug/l respectively, which exceed the MCL for drinking water. Sample 9TFAFB0501, 9TFAFB0502 and 9TFAFB0503 had levels of selenium of 11.7 ug/l, 48.9 ug/l and 50.5 ug/l which exceed the MCL for drinking water.

This is a final report.

Attachments (4)

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Date: 12/06/88

Appendix 1

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 9TFAFB05 Date Recvd: 11/08/88 Date Collected: 11/07/88
Sample Number: 1 Time Recvd: 10:10 Time Collected: 12:00

Source: Air Center Tag Number:
Site Description: North Silver Lake well Sta # 1
Sample Type: WATER
Sample Retention:

Param- Organic: ABN PES VOA
Metals: HSL
Inorganic: ALK CN HAR
Biology:

Due Date: 12/09/88
Date Projected: 12/09/88
Date Completed: / /
Comment:
Your Initials: RLR

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-01 DATE REPORTED: 12/1/88

SAMPLE TYPE: WATER ANALYST:MARVELYN HUMPHREY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

COMPOUND	ug/L	COMPOUND	ug/L
Phenol	nd dl=4	Acenaphthene	nd dl=2
bis(2-Chloroethyl) Ether	nd dl=2	2,4-Dinitrophenol	nd dl=30
2-Chlorophenol	nd dl=4	4-Nitrophenol	nd dl=8
1,3-Dichlorobenzene	nd dl=2	Dibenzofuran	nd dl=2
1,4-Dichlorobenzene	nd dl=2	2,4-Dinitrotoluene	nd dl=6
Benzyl Alcohol	nd dl=4	2,6-Dinitrotoluene	nd dl=6
1,2-Dichlorobenzene	nd dl=2	Diethylphthalate	nd dl=2
2-Methylphenol	nd dl=6	4-Chlorophenylphenyl Ether	nd dl=8
bis(2-chloroisopropyl)Ether	nd dl=2	Fluorene	nd dl=2
4-Methylphenol	nd dl=6	4-Nitroaniline	nd dl=8
N-Nitroso-Di-n-Propylamine	nd dl=6	4,6-Dinitro-2-Methylphenol	nd dl=20
Hexachloroethane	nd dl=2	N-Nitrosodiphenylamine	nd dl=4
Nitrobenzene	nd dl=2	4-Bromophenylphenyl Ether	nd dl=8
Isophorone	nd dl=4	Hexachlorobenzene	nd dl=2
2-Nitrophenol	nd dl=10	Pentachlorophenol	nd dl=15
2,4-Dimethylphenol	nd dl=6	Phenanthrene	nd dl=2
Benzoic Acid	nd dl=10	Anthracene	nd dl=2
bis(2-Chloroethoxy)Methane	nd dl=2	Di-n-Butylphthalate	nd dl=2
2,4-Dichlorophenol	nd dl=6	Fluoranthene	nd dl=2
1,2,4-trichlorobenzene	nd dl=2	Benzidine	nd dl=20
Naphthalene	nd dl=2	Pyrene	nd dl=2
4-Chloroaniline	nd dl=4	Butylbenzylphthalate	nd dl=4
Hexachlorobutadiene	nd dl=2	3,3'-Dichlorobenzidine	nd dl=10
4-Chloro-3-Methylphenol	nd dl=8	Benzo(a)Anthracene	nd dl=8
2-Methylnaphthalene	nd dl=2	bis-(2-Ethylhexyl)Phthalate	nd dl=4
Hexachlorocyclopentadiene	nd dl=10	Chrysene	nd dl=8
2,4,6-Trichlorophenol	nd dl=6	Di-n-Octyl Phthalate	nd dl=4
2,4,5-Trichlorophenol	nd dl=6	Benzo(b)Fluoranthene	nd dl=8
2-Chloronaphthalene	nd dl=2	Benzo(k)Fluoranthene	nd dl=8
2-Nitroaniline	nd dl=8	Benzo(a)Pyrene	nd dl=8
DimethylPhthalate	nd dl=2	Indeno(1,2,3-cd) Pyrene	nd dl=8
Acenaphthylene	nd dl=2	Dibenzo(a,h)Anthracene	nd dl=8
3-Nitroaniline	nd dl=8	Benzo(g,h,i)Perylene	nd dl=8

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-01 DATE REPORTED: 12/1/88

SAMPLE TYPE: WATER

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHOD 625

SCAN#	CAS #	EST.CONC (ug/l)	COMPOUND NAME
			NO SEMI-VOLATILES FOUND.

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-01 DATE REPORTED: 12/01/88

SAMPLE TYPE: Water

ANALYST: R. McMillin / E. O'Neill

VOLATILE COMPOUNDS BY METHOD 624

PP#	CAS#		(ug/l)
	67-64-1	acetone	ND DL= 5
(2V)	107-02-8	acrolein	ND DL=100
(3V)	107-13-1	acrylonitrile	ND DL=100
(4V)	71-43-2	benzene	ND DL= 2
	78-93-3	2-butanone	ND DL= 5
	75-15-0	carbon disulfide	ND DL= 5
(6V)	56-23-5	carbon tetrachloride	ND DL= 2
(7V)	108-90-7	chlorobenzene	ND DL= 2
(10V)	107-06-2	1,2-dichloroethane	ND DL= 2
(11V)	71-55-6	1,1,1-trichloroethane	ND DL= 2
(13V)	75-34-3	1,1-dichloroethane	ND DL= 2
(14V)	79-00-5	1,1,2-trichloroethane	ND DL= 2
(15V)	79-34-5	1,1,2,2-tetrachloroethane	ND DL= 2
(16V)	75-00-3	chloroethane	ND DL= 5
(23V)	67-66-3	chloroform	ND DL= 2
(29V)	75-35-4	1,1-dichloroethene	ND DL= 2
(30V)	156-60-5	trans-1,2-dichloroethene	ND DL= 2
(32V)	78-87-5	1,2-dichloropropane	ND DL= 2
(33V)	10061-02-6	trans-1,3-dichloropropene	ND DL= 2
	10061-01-5	cis-1,3-dichloropropene	ND DL= 2
(38V)	100-41-4	ethylbenzene	ND DL= 5
	519-78-6	2-hexanone	ND DL= 5
	108-10-1	4-methyl-2-pentanone	ND DL= 5
(44V)	75-09-2	methylene chloride	ND DL= 5
(45V)	74-87-3	chloromethane	ND DL= 5
(46V)	74-83-9	bromomethane	ND DL= 5
(47V)	75-25-2	bromoform	ND DL= 2
(48V)	75-27-4	bromodichloromethane	ND DL= 2
(51V)	124-48-1	chlorodibromomethane	ND DL= 2
	100-42-5	styrene	ND DL= 5
(85V)	127-18-4	tetrachloroethene	ND DL= 2
(86V)	108-88-3	toluene	ND DL= 5
(87V)	79-01-6	trichloroethene	ND DL= 2
	108-05-4	vinyl acetate	ND DL= 5
(88V)	75-01-4	vinyl chloride	ND DL= 5
	95-47-6	o-xylene	ND DL= 5
	108-38-3	m-xylene and/or	
	106-42-3	p-xylene	ND DL= 5

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-01 DATE REPORTED: 12/01/88

SAMPLE TYPE: Water

ANALYST: R. McMillin / E. O'Neill

TENTATIVE COMPOUNDS BY METHOD 624

SCAN#	CAS #	EST.CONC (ug/l)	COMPOUND NAME
			No VOA TIC's detected.

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

PESTICIDE/PCB ANALYSIS

6ES-HL SAMPLE NO.: 9TFAFB05-01 DATE REPORTED: 11/16/1988

SAMPLE TYPE: AQUEOUS

ANALYST: RAY A. FLORES

PP#	CAS#		UG/L (PPB)
(89P)	309-00-2	aldrin	ND DL=< 0.2
(90P)	60-57-1	dieldrin	ND DL=< 0.3
(91P)	57-74-9	chlordane	ND DL=< 10
(92P)	50-29-3	4,4'-DDT	ND DL=< 0.6
(93P)	72-55-9	4,4'-DDE	ND DL=< 0.5
(94P)	72-54-8	4,4'-DDD	ND DL=< 1
(95P)	115-29-7	a-endosulfan	ND DL=< 0.3
(96P)	115-29-7	b-endosulfan	ND DL=< 0.4
(97P)	1031-07-8	endosulfan sulfate	ND DL=< 0.4
(98P)	72-20-8	endrin	ND DL=< 0.2
(99P)	7421-93-4	endrin aldehyde	ND DL=< 0.5
(100P)	76-44-8	heptachlor	ND DL=< 0.1
(101P)	1024-57-3	heptachlor epoxide	ND DL=< 0.3
(102P)	319-84-6	a-BHC	ND DL=< 0.2
(103P)	319-85-7	b-BHC	ND DL=< 0.2
(104P)	319-86-8	d-BHC	ND DL=< 0.3
(105P)	58-89-9	g-BHC (lindane)	ND DL=< 0.2
(113P)	8001-35-2	toxaphene	ND DL=< 5
		methoxychlor	ND DL=< 0.4

ND DL=NOT DETECTED AT DETECTION LIMIT

US EPA HOUSTON BRANCH

SAMPLE #:	9TFAFB0501	DATE	
SOURCE:	AIR CENTER	RECEIVED:	08-Nov-88
TYPE:	AQUEOUS	DATE	
ANALYSTS:	CLARK,FELDMAN,TWC	REPORTED:	08-Dec-88

PARAMETER	CONCENTRATION	DETECTION LIMIT <=	UNITS
ARSENIC	**51.8**	4.6	UG/L
SELENIUM	**11.7**	4.8	UG/L
THALLIUM	ND	3.8	UG/L
MERCURY	ND	0.2	UG/L
SILVER	ND	10	UG/L
BERYLLIUM	ND	5	UG/L
CADMIUM	ND	5	UG/L
CHROMIUM	**57**	10	UG/L
COPPER	ND	20	UG/L
NICKEL	ND	20	UG/L
LEAD	ND	30	UG/L
ZINC	36	5	UG/L
ALUMINUM	ND	100	UG/L
BARIUM	134	10	UG/L
COBALT	ND	20	UG/L
IRON	85	25	UG/L
MANGANESE	ND	5	UG/L
VANADIUM	527	30	UG/L
ANTIMONY	ND	60	UG/L
SODIUM	125000	500	UG/L
POTASSIUM	ND	1000	UG/L
CALCIUM	3660	150	UG/L
MAGNESIUM	1600	150	UG/L
ALKALINITY	252	5	MG/L
HARDNESS	16	5	MG/L
CYANIDE	0.29	0.02	MG/L

ND: NOT DETECTED

HARDNESS CALCULATED FROM CA AND MG CONCENTRATIONS

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Date: 12/06/88

Appendix 2

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 9TFAFB05 Date Recvd: 11/08/88 Date Collected: 11/07/88
Sample Number: 2 Time Recvd: 10:10 Time Collected: 11:10

Source: Air Center Tag Number:
Site Description: South Silver Lake well Sta # 2
Sample Type: WATER
Sample Retention:

Param- Organic: ABN PES VOA
Metals: HSL
Inorganic: ALK CN HAR
Biology:

Due Date: 12/09/88
Date Projected: 12/09/88
Date Completed: / /
Comment:
Your Initials: RLR

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-02 DATE REPORTED: 12/1/88

SAMPLE TYPE: WATER ANALYST:MARVELYN HUMPHREY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

COMPOUND	ug/L	COMPOUND	ug/L
Phenol	nd dl=4	Acenaphthene	nd dl=2
bis(2-Chloroethyl) Ether	nd dl=2	2,4-Dinitrophenol	nd dl=30
2-Chlorophenol	nd dl=4	4-Nitrophenol	nd dl=8
1,3-Dichlorobenzene	nd dl=2	Dibenzofuran	nd dl=2
1,4-Dichlorobenzene	nd dl=2	2,4-Dinitrotoluene	nd dl=6
Benzyl Alcohol	nd dl=4	2,6-Dinitrotoluene	nd dl=6
1,2-Dichlorobenzene	nd dl=2	Diethylphthalate	nd dl=2
2-Methylphenol	nd dl=6	4-Chlorophenylphenyl Ether	nd dl=8
bis(2-chloroisopropyl)Ether	nd dl=2	Fluorene	nd dl=2
4-Methylphenol	nd dl=6	4-Nitroaniline	nd dl=8
N-Nitroso-Di-n-Propylamine	nd dl=6	4,6-Dinitro-2-Methylphenol	nd dl=20
Hexachloroethane	nd dl=2	N-Nitrosodiphenylamine	nd dl=4
Nitrobenzene	nd dl=2	4-Bromophenylphenyl Ether	nd dl=8
Isophorone	nd dl=4	Hexachlorobenzene	nd dl=2
2-Nitrophenol	nd dl=10	Pentachlorophenol	nd dl=15
2,4-Dimethylphenol	nd dl=6	Phenanthrene	nd dl=2
Benzoic Acid	nd dl=10	Anthracene	nd dl=2
bis(2-Chloroethoxy)Methane	nd dl=2	Di-n-Butylphthalate	nd dl=2
2,4-Dichlorophenol	nd dl=6	Fluoranthene	nd dl=2
1,2,4-trichlorobenzene	nd dl=2	Benzidine	nd dl=20
Naphthalene	nd dl=2	Pyrene	nd dl=2
4-Chloroaniline	nd dl=4	Butylbenzylphthalate	nd dl=4
Hexachlorobutadiene	nd dl=2	3,3'-Dichlorobenzidine	nd dl=10
4-Chloro-3-Methylphenol	nd dl=8	Benzo(a)Anthracene	nd dl=8
2-Methylnaphthalene	nd dl=2	bis-(2-Ethylhexyl)Phthalate	nd dl=4
Hexachlorocyclopentadiene	nd dl=10	Chrysene	nd dl=8
2,4,6-Trichlorophenol	nd dl=6	Di-n-Octyl Phthalate	nd dl=4
2,4,5-Trichlorophenol	nd dl=6	Benzo(b)Fluoranthene	nd dl=8
2-Chloronaphthalene	nd dl=2	Benzo(k)Fluoranthene	nd dl=8
2-Nitroaniline	nd dl=8	Benzo(a)Pyrene	nd dl=8
DimethylPhthalate	nd dl=2	Indeno(1,2,3-cd) Pyrene	nd dl=8
Acenaphthylene	nd dl=2	Dibenzo(a,h)Anthracene	nd dl=8
3-Nitroaniline	nd dl=8	Benzo(g,h,i)Perylene	nd dl=8

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-02 DATE REPORTED: 12/1/88

SAMPLE TYPE: WATER

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHOD 625

SCAN#	CAS #	EST.CONC (ug/l)	COMPOUND NAME
			NO SEMI-VOLATILES FOUND.

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-02 DATE REPORTED: 12/01/88

SAMPLE TYPE: Water

ANALYST: R. McMillin / E. O'Neill

VOLATILE COMPOUNDS BY METHOD 624

PP#	CAS#		(ug/l)
	67-64-1	acetone	ND DL= 5
(2V)	107-02-8	acrolein	ND DL=100
(3V)	107-13-1	acrylonitrile	ND DL=100
(4V)	71-43-2	benzene	ND DL= 2
	78-93-3	2-butanone	ND DL= 5
	75-15-0	carbon disulfide	ND DL= 5
(6V)	56-23-5	carbon tetrachloride	ND DL= 2
(7V)	108-90-7	chlorobenzene	ND DL= 2
(10V)	107-06-2	1,2-dichloroethane	ND DL= 2
(11V)	71-55-6	1,1,1-trichloroethane	ND DL= 2
(13V)	75-34-3	1,1-dichloroethane	ND DL= 2
(14V)	79-00-5	1,1,2-trichloroethane	ND DL= 2
(15V)	79-34-5	1,1,2,2-tetrachloroethane	ND DL= 2
(16V)	75-00-3	chloroethane	ND DL= 5
(23V)	67-66-3	chloroform	ND DL= 2
(29V)	75-35-4	1,1-dichloroethene	ND DL= 2
(30V)	156-60-5	trans-1,2-dichloroethene	ND DL= 2
(32V)	78-87-5	1,2-dichloropropane	ND DL= 2
(33V)	10061-02-6	trans-1,3-dichloropropene	ND DL= 2
	10061-01-5	cis-1,3-dichloropropene	ND DL= 2
(38V)	100-41-4	ethylbenzene	ND DL= 5
	519-78-6	2-hexanone	ND DL= 5
	108-10-1	4-methyl-2-pentanone	ND DL= 5
(44V)	75-09-2	methylene chloride	ND DL= 5
(45V)	74-87-3	chloromethane	ND DL= 5
(46V)	74-83-9	bromomethane	ND DL= 5
(47V)	75-25-2	bromoform	ND DL= 2
(48V)	75-27-4	bromodichloromethane	ND DL= 2
(51V)	124-48-1	chlorodibromomethane	ND DL= 2
	100-42-5	styrene	ND DL= 5
(85V)	127-18-4	tetrachloroethene	ND DL= 2
(86V)	108-88-3	toluene	ND DL= 5
(87V)	79-01-6	trichloroethene	ND DL= 2
	108-05-4	vinyl acetate	ND DL= 5
(88V)	75-01-4	vinyl chloride	ND DL= 5
	95-47-6	o-xylene	ND DL= 5
	108-38-3	m-xylene and/or	
	106-42-3	p-xylene	ND DL= 5

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-02 DATE REPORTED: 12/01/88

SAMPLE TYPE: Water

ANALYST: R. McMillin / E. O'Neill

TENTATIVE COMPOUNDS BY METHOD 624

SCAN#	CAS #	EST.CONC (ug/l)	COMPOUND NAME
			No VOA TIC's detected.

* ANALYSTS NOTE 1 - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard 1

PESTICIDE/PCB ANALYSIS

6ES-HL SAMPLE NO.: 9TFAFB05-02 DATE REPORTED: 11/16/1988

SAMPLE TYPE: AQUEOUS

ANALYST: RAY A. FLORES

PP#	CAS#		UG/L (PPB)
(89P)	309-00-2	aldrin	ND DL=< 0.2
(90P)	60-57-1	dieldrin	ND DL=< 0.3
(91P)	57-74-9	chlordane	ND DL=< 10
(92P)	50-29-3	4,4'-DDT	ND DL=< 0.6
(93P)	72-55-9	4,4'-DDE	ND DL=< 0.5
(94P)	72-54-8	4,4'-DDD	ND DL=< 1
(95P)	115-29-7	a-endosulfan	ND DL=< 0.3
(96P)	115-29-7	b-endosulfan	ND DL=< 0.4
(97P)	1031-07-8	endosulfan sulfate	ND DL=< 0.4
(98P)	72-20-8	endrin	ND DL=< 0.2
(99P)	7421-93-4	endrin aldehyde	ND DL=< 0.5
(100P)	76-44-8	heptachlor	ND DL=< 0.1
(101P)	1024-57-3	heptachlor epoxide	ND DL=< 0.3
(102P)	319-84-6	a-BHC	ND DL=< 0.2
(103P)	319-85-7	b-BHC	ND DL=< 0.2
(104P)	319-86-8	d-BHC	ND DL=< 0.3
(105P)	58-89-9	g-BHC (lindane)	ND DL=< 0.2
(113P)	8001-35-2	toxaphene	ND DL=< 5
		methoxychlor	ND DL=< 0.4

ND DL=NOT DETECTED AT DETECTION LIMIT

US EPA HOUSTON BRANCH

SAMPLE #:	9TFAFB0502	DATE RECEIVED:	08-Nov-88
SOURCE:	AIR CENTER		
TYPE:	AQUEOUS	DATE REPORTED:	08-Dec-88
ANALYSTS:	CLARK,FELDMAN,TWC		

PARAMETER	CONCENTRATION	DETECTION LIMIT <=	UNITS
ARSENIC	16.1	4.6	UG/L
SELENIUM	**48.9**	4.8	UG/L
THALLIUM	ND	3.8	UG/L
MERCURY	ND	0.2	UG/L
SILVER	ND	10	UG/L
BERYLLIUM	ND	5	UG/L
CADMIUM	ND	5	UG/L
CHROMIUM	**60**	10	UG/L
COPPER	ND	20	UG/L
NICKEL	ND	20	UG/L
LEAD	ND	30	UG/L
ZINC	54	5	UG/L
ALUMINUM	ND	100	UG/L
BARIUM	20	10	UG/L
COBALT	ND	20	UG/L
IRON	40	25	UG/L
MANGANESE	6	5	UG/L
VANADIUM	198	30	UG/L
ANTIMONY	ND	60	UG/L
SODIUM	163000	500	UG/L
POTASSIUM	ND	1000	UG/L
CALCIUM	84300	150	UG/L
MAGNESIUM	30100	150	UG/L
ALKALINITY	228	5	MG/L
HARDNESS	334	5	MG/L
CYANIDE	ND	0.02	MG/L

ND: NOT DETECTED

HARDNESS CALCULATED FROM CA AND MG CONCENTRATIONS

,1,$

Date: 12/06/88

Appendix B

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 9TFAFB05 Date Recvd: 11/08/88 Date Collected: 11/07/88
Sample Number: 3 Time Recvd: 10:10 Time Collected: 11:20

Source: Air Center Tag Number:
Site Description: South Silver Lake well Sta# 2d
Sample Type: WATER
Sample Retention:

Param- Organic: ABN PES VOA
Metals: HSL
Inorganic: ALK CN HAR
Biology:

Due Date: 12/09/88
Date Projected: 12/09/88
Date Completed: / /
Comment:
Your Initials: RLR

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-03 DATE REPORTED: 12/1/88

SAMPLE TYPE: WATER ANALYST:MARVELYN HUMPHREY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

COMPOUND	ug/L	COMPOUND	ug/L
Phenol	nd dl=4	Acenaphthene	nd dl=2
bis(2-Chloroethyl) Ether	nd dl=2	2,4-Dinitrophenol	nd dl=30
2-Chlorophenol	nd dl=4	4-Nitrophenol	nd dl=8
1,3-Dichlorobenzene	nd dl=2	Dibenzofuran	nd dl=2
1,4-Dichlorobenzene	nd dl=2	2,4-Dinitrotoluene	nd dl=6
Benzyl Alcohol	nd dl=4	2,6-Dinitrotoluene	nd dl=6
1,2-Dichlorobenzene	nd dl=2	Diethylphthalate	nd dl=2
2-Methylphenol	nd dl=6	4-Chlorophenylphenyl Ether	nd dl=8
bis(2-chloroisopropyl)Ether	nd dl=2	Fluorene	nd dl=2
4-Methylphenol	nd dl=6	4-Nitroaniline	nd dl=8
N-Nitroso-Di-n-Propylamine	nd dl=6	4,6-Dinitro-2-Methylphenol	nd dl=20
Hexachloroethane	nd dl=2	N-Nitrosodiphenylamine	nd dl=4
Nitrobenzene	nd dl=2	4-Bromophenylphenyl Ether	nd dl=8
Isophorone	nd dl=4	Hexachlorobenzene	nd dl=2
2-Nitrophenol	nd dl=10	Pentachlorophenol	nd dl=15
2,4-Dimethylphenol	nd dl=6	Phenanthrene	nd dl=2
Benzoic Acid	nd dl=10	Anthracene	nd dl=2
bis(2-Chloroethoxy)Methane	nd dl=2	Di-n-Butylphthalate	nd dl=2
2,4-Dichlorophenol	nd dl=6	Fluoranthene	nd dl=2
1,2,4-trichlorobenzene	nd dl=2	Benzidine	nd dl=20
Naphthalene	nd dl=2	Pyrene	nd dl=2
4-Chloroaniline	nd dl=4	Butylbenzylphthalate	nd dl=4
Hexachlorobutadiene	nd dl=2	3,3'-Dichlorobenzidine	nd dl=10
4-Chloro-3-Methylphenol	nd dl=8	Benzo(a)Anthracene	nd dl=8
2-Methylnaphthalene	nd dl=2	bis-(2-Ethylhexyl)Phthalate	nd dl=4
Hexachlorocyclopentadiene	nd dl=10	Chrysene	nd dl=8
2,4,6-Trichlorophenol	nd dl=6	Di-n-Octyl Phthalate	nd dl=4
2,4,5-Trichlorophenol	nd dl=6	Benzo(b)Fluoranthene	nd dl=8
2-Chloronaphthalene	nd dl=2	Benzo(k)Fluoranthene	nd dl=8
2-Nitroaniline	nd dl=8	Benzo(a)Pyrene	nd dl=8
DimethylPhthalate	nd dl=2	Indeno(1,2,3-cd) Pyrene	nd dl=8
Acenaphthylene	nd dl=2	Dibenzo(a,h)Anthracene	nd dl=8
3-Nitroaniline	nd dl=8	Benzo(g,h,i)Perylene	nd dl=8

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-03 DATE REPORTED: 12/1/88

SAMPLE TYPE: WATER

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHOD 625

SCAN#	CAS #	EST.CONC (ug/l)	COMPOUND NAME
			NO SEMI-VOLATILES FOUND.

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-03 DATE REPORTED: 12/01/88

SAMPLE TYPE: Water

ANALYST: R. McMillin / E. O'Neill

VOLATILE COMPOUNDS BY METHOD 624

PP#	CAS#		(ug/l)
	67-64-1	acetone	ND DL= 5
(2V)	107-02-8	acrolein	ND DL=100
(3V)	107-13-1	acrylonitrile	ND DL=100
(4V)	71-43-2	benzene	ND DL= 2
	78-93-3	2-butanone	ND DL= 5
	75-15-0	carbon disulfide	ND DL= 5
(6V)	56-23-5	carbon tetrachloride	ND DL= 2
(7V)	108-90-7	chlorobenzene	ND DL= 2
(10V)	107-06-2	1,2-dichloroethane	ND DL= 2
(11V)	71-55-6	1,1,1-trichloroethane	ND DL= 2
(13V)	75-34-3	1,1-dichloroethane	ND DL= 2
(14V)	79-00-5	1,1,2-trichloroethane	ND DL= 2
(15V)	79-34-5	1,1,2,2-tetrachloroethane	ND DL= 2
(16V)	75-00-3	chloroethane	ND DL= 5
(23V)	67-66-3	chloroform	ND DL= 2
(29V)	75-35-4	1,1-dichloroethene	ND DL= 2
(30V)	156-60-5	trans-1,2-dichloroethene	ND DL= 2
(32V)	78-87-5	1,2-dichloropropane	ND DL= 2
(33V)	10061-02-6	trans-1,3-dichloropropene	ND DL= 2
	10061-01-5	cis-1,3-dichloropropene	ND DL= 2
(38V)	100-41-4	ethylbenzene	ND DL= 5
	519-78-6	2-hexanone	ND DL= 5
	108-10-1	4-methyl-2-pentanone	ND DL= 5
(44V)	75-09-2	methylene chloride	ND DL= 5
(45V)	74-87-3	chloromethane	ND DL= 5
(46V)	74-83-9	bromomethane	ND DL= 5
(47V)	75-25-2	bromoform	ND DL= 2
(48V)	75-27-4	bromodichloromethane	ND DL= 2
(51V)	124-48-1	chlorodibromomethane	ND DL= 2
	100-42-5	styrene	ND DL= 5
(85V)	127-18-4	tetrachloroethene	ND DL= 2
(86V)	108-88-3	toluene	ND DL= 5
(87V)	79-01-6	trichloroethene	ND DL= 2
	108-05-4	vinyl acetate	ND DL= 5
(88V)	75-01-4	vinyl chloride	ND DL= 5
	95-47-6	o-xylene	ND DL= 5
	108-38-3	m-xylene and/or	
	106-42-3	p-xylene	ND DL= 5

Attachment 3

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-03 DATE REPORTED: 12/01/88

SAMPLE TYPE: Water

ANALYST: R. McMillin / E. O'Neill

TENTATIVE COMPOUNDS BY METHOD 624

SCAN#	CAS #	EST.CONC (ug/l)	COMPOUND NAME
			No VOA TIC's detected.

* ANALYSTS NOTE 1 - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard 1

PESTICIDE/PCB ANALYSIS

6ES-HL SAMPLE NO.: 9TFAFB05-03 DATE REPORTED: 11/16/1988

SAMPLE TYPE: AQUEOUS

ANALYST: RAY A. FLORES

PP#	CAS#		UG/L (PPB)
(89P)	309-00-2	aldrin	ND DL=< 0.2
(90P)	60-57-1	dieldrin	ND DL=< 0.3
(91P)	57-74-9	chlordane	ND DL=< 10
(92P)	50-29-3	4,4'-DDT	ND DL=< 0.6
(93P)	72-55-9	4,4'-DDE	ND DL=< 0.5
(94P)	72-54-8	4,4'-DDD	ND DL=< 1
(95P)	115-29-7	a-endosulfan	ND DL=< 0.3
(96P)	115-29-7	b-endosulfan	ND DL=< 0.4
(97P)	1031-07-8	endosulfan sulfate	ND DL=< 0.4
(98P)	72-20-8	endrin	ND DL=< 0.2
(99P)	7421-93-4	endrin aldehyde	ND DL=< 0.5
(100P)	76-44-8	heptachlor	ND DL=< 0.1
(101P)	1024-57-3	heptachlor epoxide	ND DL=< 0.3
(102P)	319-84-6	a-BHC	ND DL=< 0.2
(103P)	319-85-7	b-BHC	ND DL=< 0.2
(104P)	319-86-8	d-BHC	ND DL=< 0.3
(105P)	58-89-9	g-BHC (lindane)	ND DL=< 0.2
(113P)	8001-35-2	toxaphene	ND DL=< 5
		methoxychlor	ND DL=< 0.4

ND DL=NOT DETECTED AT DETECTION LIMIT

US EPA HOUSTON BRANCH

SAMPLE #:	9TFAFB0503	DATE RECEIVED:	08-Nov-88
SOURCE:	AIR CENTER		
TYPE:	AQUEOUS	DATE REPORTED:	08-Dec-88
ANALYSTS:	CLARK,FELDMAN,TWC		

PARAMETER	CONCENTRATION	DETECTION LIMIT <=	UNITS
ARSENIC	16.1	4.6	UG/L
SELENIUM	50.5	4.8	UG/L
THALLIUM	ND	3.8	UG/L
MERCURY	ND	0.2	UG/L
SILVER	ND	10	UG/L
BERYLLIUM	ND	5	UG/L
CADMIUM	ND	5	UG/L
CHROMIUM	53	10	UG/L
COPPER	ND	20	UG/L
NICKEL	ND	20	UG/L
LEAD	ND	30	UG/L
ZINC	48	5	UG/L
ALUMINUM	ND	100	UG/L
BARIUM	18	10	UG/L
COBALT	ND	20	UG/L
IRON	33	25	UG/L
MANGANESE	18	5	UG/L
VANADIUM	196	30	UG/L
ANTIMONY	ND	60	UG/L
SODIUM	158000	500	UG/L
POTASSIUM	ND	1000	UG/L
CALCIUM	80900	150	UG/L
MAGNESIUM	29000	150	UG/L
ALKALINITY	233	5	MG/L
HARDNESS	321	5	MG/L
CYANIDE	0.05	0.02	MG/L

ND: NOT DETECTED

HARDNESS CALCULATED FROM CA AND MG CONCENTRATIONS

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Date: 12/06/88

Appendix 4

US ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICE DIVISION
HOUSTON LABORATORY SECTION

LAB SAMPLE REPORT

Activity Number: 9TFAFB05 Date Recvd: 11/08/88 Date Collected: 11/07/88
Sample Number: 4 Time Recvd: 10:10 Time Collected: 08:45

Source: Air Center Tag Number:
Site Description: Trip Blank Sta # 3
Sample Type: WATER
Sample Retention:

Param- Organic: ABN PES VOA
Metals: HSL
Inorganic: ALK CN HAR
Biology:

Due Date: 12/09/88
Date Projected: 12/09/88
Date Completed: / /
Comment:
Your Initials: RLR

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-04 DATE REPORTED: 12/1/88

SAMPLE TYPE: WATER ANALYST: MARVELYN HUMPHREY

HSL ACID BASE/NEUTRAL COMPOUNDS BY METHOD 625

COMPOUND	ug/L	COMPOUND	ug/L
Phenol	nd dl=4	Acenaphthene	nd dl=2
bis(2-Chloroethyl) Ether	nd dl=2	2,4-Dinitrophenol	nd dl=30
2-Chlorophenol	nd dl=4	4-Nitrophenol	nd dl=8
1,3-Dichlorobenzene	nd dl=2	Dibenzofuran	nd dl=2
1,4-Dichlorobenzene	nd dl=2	2,4-Dinitrotoluene	nd dl=6
Benzyl Alcohol	nd dl=4	2,6-Dinitrotoluene	nd dl=6
1,2-Dichlorobenzene	nd dl=2	Diethylphthalate	nd dl=2
2-Methylphenol	nd dl=6	4-Chlorophenylphenyl Ether	nd dl=8
bis(2-chloroisopropyl)Ether	nd dl=2	Fluorene	nd dl=2
4-Methylphenol	nd dl=6	4-Nitroaniline	nd dl=8
N-Nitroso-Di-n-Propylamine	nd dl=6	4,6-Dinitro-2-Methylphenol	nd dl=20
Hexachloroethane	nd dl=2	N-Nitrosodiphenylamine	nd dl=4
Nitrobenzene	nd dl=2	4-Bromophenylphenyl Ether	nd dl=8
Isophorone	nd dl=4	Hexachlorobenzene	nd dl=2
2-Nitrophenol	nd dl=10	Pentachlorophenol	nd dl=15
2,4-Dimethylphenol	nd dl=6	Phenanthrene	nd dl=2
Benzoic Acid	nd dl=10	Anthracene	nd dl=2
bis(2-Chloroethoxy)Methane	nd dl=2	Di-n-Butylphthalate	nd dl=2
2,4-Dichlorophenol	nd dl=6	Fluoranthene	nd dl=2
1,2,4-trichlorobenzene	nd dl=2	Benzidine	nd dl=20
Naphthalene	nd dl=2	Pyrene	nd dl=2
4-Chloroaniline	nd dl=4	Butylbenzylphthalate	nd dl=4
Hexachlorobutadiene	nd dl=2	3,3'-Dichlorobenzidine	nd dl=10
4-Chloro-3-Methylphenol	nd dl=8	Benzo(a)Anthracene	nd dl=8
2-Methylnaphthalene	nd dl=2	bis-(2-Ethylhexyl)Phthalate	nd dl=4
Hexachlorocyclopentadiene	nd dl=10	Chrysene	nd dl=8
2,4,6-Trichlorophenol	nd dl=6	Di-n-Octyl Phthalate	nd dl=4
2,4,5-Trichlorophenol	nd dl=6	Benzo(b)Fluoranthene	nd dl=8
2-Chloronaphthalene	nd dl=2	Benzo(k)Fluoranthene	nd dl=8
2-Nitroaniline	nd dl=8	Benzo(a)Pyrene	nd dl=8
DimethylPhthalate	nd dl=2	Indeno(1,2,3-cd) Pyrene	nd dl=8
Acenaphthylene	nd dl=2	Dibenzo(a,h)Anthracene	nd dl=8
3-Nitroaniline	nd dl=8	Benzo(g,h,i)Perylene	nd dl=8

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-04 DATE REPORTED: 12/1/88

SAMPLE TYPE: WATER

ANALYST: MARVELYN HUMPHREY

TENTATIVE COMPOUNDS BY METHOD 625

SCAN#	CAS #	EST.CONC (ug/l)	COMPOUND NAME
			NO SEMI-VOLATILES FOUND.

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-04 DATE REPORTED: 12/01/88

SAMPLE TYPE: Water

ANALYST: R. McMillin / E. O'Neill

VOLATILE COMPOUNDS BY METHOD 624

PP#	CAS#		(ug/l)
	67-64-1	acetone	ND DL= 5
(2V)	107-02-8	acrolein	ND DL=100
(3V)	107-13-1	acrylonitrile	ND DL=100
(4V)	71-43-2	benzene	ND DL= 2
	78-93-3	2-butanone	ND DL= 5
	75-15-0	carbon disulfide	ND DL= 5
(6V)	56-23-5	carbon tetrachloride	ND DL= 2
(7V)	108-90-7	chlorobenzene	ND DL= 2
(10V)	107-06-2	1,2-dichloroethane	ND DL= 2
(11V)	71-55-6	1,1,1-trichloroethane	ND DL= 2
(13V)	75-34-3	1,1-dichloroethane	ND DL= 2
(14V)	79-00-5	1,1,2-trichloroethane	ND DL= 2
(15V)	79-34-5	1,1,2,2-tetrachloroethane	ND DL= 2
(16V)	75-00-3	chloroethane	ND DL= 5
(23V)	67-66-3	chloroform	ND DL= 2
(29V)	75-35-4	1,1-dichloroethene	ND DL= 2
(30V)	156-60-5	trans-1,2-dichloroethene	ND DL= 2
(32V)	78-87-5	1,2-dichloropropane	ND DL= 2
(33V)	10061-02-6	trans-1,3-dichloropropene	ND DL= 2
	10061-01-5	cis-1,3-dichloropropene	ND DL= 2
(38V)	100-41-4	ethylbenzene	ND DL= 5
	519-78-6	2-hexanone	ND DL= 5
	108-10-1	4-methyl-2-pentanone	ND DL= 5
(44V)	75-09-2	methylene chloride	ND DL= 5
(45V)	74-87-3	chloromethane	ND DL= 5
(46V)	74-83-9	bromomethane	ND DL= 5
(47V)	75-25-2	bromoform	ND DL= 2
(48V)	75-27-4	bromodichloromethane	ND DL= 2
(51V)	124-48-1	chlorodibromomethane	ND DL= 2
	100-42-5	styrene	ND DL= 5
(85V)	127-18-4	tetrachloroethene	ND DL= 2
(86V)	108-88-3	toluene	ND DL= 5
(87V)	79-01-6	trichloroethene	ND DL= 2
	108-05-4	vinyl acetate	ND DL= 5
(88V)	75-01-4	vinyl chloride	ND DL= 5
	95-47-6	o-xylene	ND DL= 5
	108-38-3	m-xylene and/or	
	106-42-3	p-xylene	ND DL= 5

Attachment 4

ORGANIC ANALYSIS DATA

6ES-HL SAMPLE NO.: 9TFAFB05-04 DATE REPORTED: 12/01/88

SAMPLE TYPE: Water

ANALYST: R. McMillin / E. O'Neill

TENTATIVE COMPOUNDS BY METHOD 624

SCAN#	CAS #	EST.CONC (ug/l)	COMPOUND NAME
			No VOA TIC's detected.

* ANALYSTS NOTE ! - THE COMPOUNDS LISTED ARE TENATIVELY IDENTIFIED BY THE BEST MATCH WITH THE NIH/EPA/WILEY MASS SPECTRAL DATA BASE OR BY MANUAL MASS SPECTRA INTERPRETATION. STANDARDS WERE NOT AVAILABLE FOR CONFIRMATION OR QUANTITATION.
** Estimated concentration is based on a RF of 1.0 to internal standard !

PESTICIDE/PCB ANALYSIS

6ES-HL SAMPLE NO.: 9TFAFB05-04 DATE REPORTED: 11/16/1988

SAMPLE TYPE: AQUEOUS

ANALYST: RAY A. FLORES

PP#	CAS#		UG/L (PPB)
(89P)	309-00-2	aldrin	ND DL=< 0.2
(90P)	60-57-1	dieldrin	ND DL=< 0.3
(91P)	57-74-9	chlordane	ND DL=< 10
(92P)	50-29-3	4,4'-DDT	ND DL=< 0.6
(93P)	72-55-9	4,4'-DDE	ND DL=< 0.5
(94P)	72-54-8	4,4'-DDD	ND DL=< 1
(95P)	115-29-7	a-endosulfan	ND DL=< 0.3
(96P)	115-29-7	b-endosulfan	ND DL=< 0.4
(97P)	1031-07-8	endosulfan sulfate	ND DL=< 0.4
(98P)	72-20-8	endrin	ND DL=< 0.2
(99P)	7421-93-4	endrin aldehyde	ND DL=< 0.5
(100P)	76-44-8	heptachlor	ND DL=< 0.1
(101P)	1024-57-3	heptachlor epoxide	ND DL=< 0.3
(102P)	319-84-6	a-BHC	ND DL=< 0.2
(103P)	319-85-7	b-BHC	ND DL=< 0.2
(104P)	319-86-8	d-BHC	ND DL=< 0.3
(105P)	58-89-9	g-BHC (lindane)	ND DL=< 0.2
(113P)	8001-35-2	toxaphene	ND DL=< 5
		methoxychlor	ND DL=< 0.4

ND DL=NOT DETECTED AT DETECTION LIMIT

US EPA HOUSTON BRANCH

SAMPLE #:	9TFAFB0504	DATE RECEIVED:	08-Nov-88
SOURCE:	AIR CENTER		
TYPE:	AQUEOUS	DATE REPORTED:	08-Dec-88
ANALYSTS:	CLARK,FELDMAN,TWC		

PARAMETER	CONCENTRATION	DETECTION LIMIT <=	UNITS
ARSENIC	ND	4.6	UG/L
SELENIUM	ND	4.8	UG/L
THALLIUM	ND	3.8	UG/L
MERCURY	ND	0.2	UG/L
SILVER	ND	10	UG/L
BERYLLIUM	ND	5	UG/L
CADMIUM	ND	5	UG/L
CHROMIUM	ND	10	UG/L
COPPER	ND	20	UG/L
NICKEL	ND	20	UG/L
LEAD	ND	30	UG/L
ZINC	ND	5	UG/L
ALUMINUM	ND	100	UG/L
BARIUM	ND	10	UG/L
COBALT	ND	20	UG/L
IRON	ND	25	UG/L
MANGANESE	ND	5	UG/L
VANADIUM	ND	30	UG/L
ANTIMONY	ND	60	UG/L
SODIUM	ND	500	UG/L
POTASSIUM	ND	1000	UG/L
CALCIUM	ND	150	UG/L
MAGNESIUM	ND	150	UG/L
ALKALINITY	ND	5	MG/L
HARDNESS	ND	5	MG/L
CYANIDE	ND	0.02	MG/L

ND: NOT DETECTED

HARDNESS CALCULATED FROM CA AND MG CONCENTRATIONS