CAFB 92

Analytical Technologies, Inc. 9830 S. 51st Street Suite B-113 Phoenix, AZ 85044 (602) 496-4400

ATI I.D. 206851

July 9, 1992

New Mexico Environmental Division
P.O. Box 26110
Santa Fe, NM 87502

Project Name/Number: CAFB

Attention: Steve Alexander

On 06/18/92, Analytical Technologies, Inc. received a request to analyze aqueous sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

Barium, cobalt, tin, and vanadium analyses were added on 06/22/92 for sample MW-I & MW-L. EPA 8080 and 8140 analyses were added on 06/22/92 for sample MW-I & MW-L.

Xylenes were found by Method 8240 analysis in the reagent blank run on 06/23/92. Xylenes were not found in the client sample analyzed on that day.

If you have any questions or comments, please do not hesitate to contact us at (602) 496-4400.

Mary L. Tyer

Mary Tyer
Project Manager

Robert V. Woods
Laboratory Manager

RVW:ehj
Enclosure

Analytical Technologies, Inc.

CLIENT : NEW MEXICO ENVIRONMENT DEPARTMENT
PROJECT # : (NONE)
PROJECT NAME : CAFB

DATE RECEIVED : 06/18/92
REPORT DATE : 06/30/92

ATI I.D. : 206851

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-I	AQUEOUS	06/17/92
02	MW-L	AQUEOUS	06/17/92
03	TRIP BLANK	AQUEOUS	06/09/92

----- TOTALS -----

MATRIX	# SAMPLES
AQUEOUS	3

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 206851

CLIENT : NEW MEXICO ENVIRONMENT DEPARTMENT
PROJECT # : (NONE)
PROJECT NAME : CAFB

DATE RECEIVED : 06/18/92
REPORT DATE : 06/30/92

PARAMETER	UNITS	01	02
CYANIDE, TOTAL	MG/L	<0.01	<0.01
SULFIDE, TOTAL	MG/L	<1	<1
TURBIDITY	NTU	0.29	0.66

Analytical Technologies, Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : NEW MEXICO ENVIRONMENT DEPARTMENT
PROJECT # : (NONE)
PROJECT NAME : CAFB ATI I.D. : 206851

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
CYANIDE, TOTAL	MG/L	20682701	<0.01	<0.01	NA	0.24	0.25	96
SULFIDE, TOTAL	MG/L	20677001	<1	<1	NA	8.6	8.5	101
SULFIDE, TOTAL	MG/L	20699951	<1	<1	NA	9.5	8.5	112
TURBIDITY	NTU	20685102	0.66	0.65	2	NA	NA	NA

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.

METALS RESULTS

ATI I.D. : 206851

CLIENT : NEW MEXICO ENVIRONMENT DEPARTMENT
PROJECT # : (NONE)
PROJECT NAME : CAFB

DATE RECEIVED : 06/18/92
REPORT DATE : 06/30/92

PARAMETER	UNITS	01	02
SILVER	MG/L	<0.010	<0.010
ARSENIC 2042	MG/L	<0.005	0.007
BARIUM	MG/L	0.033	0.032
BERYLLIUM	MG/L	<0.005	<0.005
CADMIUM	MG/L	<0.005	<0.005
COBALT	MG/L	<0.010	<0.010
CHROMIUM	MG/L	<0.010	<0.010
COPPER	MG/L	<0.010	<0.010
MERCURY	MG/L	<0.0002	<0.0002
NICKEL	MG/L	<0.020	<0.020
LEAD	MG/L	<0.002	<0.002
ANTIMONY 7740	MG/L	<0.05	<0.05
SELENIUM	MG/L	0.006	0.008
TIN	MG/L	<0.03	<0.03
THALLIUM 7841	MG/L	<0.005	<0.005
VANADIUM	MG/L	0.024	0.031
ZINC	MG/L	<0.010	<0.010

Analytical Technologies, Inc.

METALS - QUALITY CONTROL

CLIENT : NEW MEXICO ENVIRONMENT DEPARTMENT
PROJECT # : (NONE)
PROJECT NAME : CAFB ATI I.D. : 206851

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
SILVER	MG/L	20685102	<0.010	<0.010	NA	0.098	0.100	98
ARSENIC	MG/L	20688001	<0.005	<0.005	NA	0.057	0.050	114
BARIUM	MG/L	20685102	0.032	0.030	6	0.130	0.100	98
BERYLLIUM	MG/L	20685102	<0.005	<0.005	NA	0.099	0.100	99
CADMIUM	MG/L	20685102	<0.005	<0.005	NA	0.111	0.100	111
COBALT	MG/L	20682701	<0.010	<0.010	NA	0.105	0.100	105
CHROMIUM	MG/L	20685102	<0.010	<0.010	NA	0.099	0.100	99
COPPER	MG/L	20685102	<0.010	<0.010	NA	0.095	0.100	95
MERCURY	MG/L	20688001	<0.0002	<0.0002	NA	0.0050	0.0050	100
NICKEL	MG/L	20685102	<0.020	<0.020	NA	0.115	0.100	115
LEAD	MG/L	20684401	0.015	0.015	0	0.061	0.050	92
ANTIMONY	MG/L	20685102	<0.05	<0.05	NA	0.99	1.00	99
SELENIUM	MG/L	20677001	<0.005	<0.005	NA	0.033	0.050	66
TIN	MG/L	20682701	<0.03	<0.03	NA	1.06	1.00	106
THALLIUM	MG/L	20688001	<0.005	<0.005	NA	0.055	0.050	110
VANADIUM	MG/L	20682701	0.033	0.030	10	0.130	0.100	97
ZINC	MG/L	20685102	<0.010	<0.010	NA	0.118	0.100	118

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 20685101

TEST : CHLORINATED HERBICIDES (EPA 8150)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/17/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: 06/19/92
CLIENT I.D.	: MW-I	DATE ANALYZED	: 06/25/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
2,4,5-TRICHLOROPHENOXYACETIC ACID	<0.2
2,4-DICHLOROPHENOXYACETIC ACID	<0.4
2-SEC-BUTYL-4,6-DINITROPHENOL	<1.0
SILVEX (2,4,5-TP)	<0.2

SURROGATE PERCENT RECOVERIES

DCAA (%)	90

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 20685102

TEST : CHLORINATED HERBICIDES (EPA 8150)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/17/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: 06/19/92
CLIENT I.D.	: MW-L	DATE ANALYZED	: 06/25/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
2,4,5-TRICHLOROPHENOXYACETIC ACID	<0.2
2,4-DICHLOROPHENOXYACETIC ACID	<0.4
2-SEC-BUTYL-4,6-DINITROPHENOL	<1.0
SILVEX (2,4,5-TP)	<0.2

SURROGATE PERCENT RECOVERIES

DCAA (%)	85

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - RESULTS

REAGENT BLANK

TEST : CHLORINATED HERBICIDES (EPA 8150)

		ATI I.D.	: 206851
CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE EXTRACTED	: 06/19/92
PROJECT #	: (NONE)	DATE ANALYZED	: 06/25/92
PROJECT NAME	: CAFB	UNITS	: UG/L
CLIENT I.D.	: REAGENT BLANK	DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
2,4,5-TRICHLOROPHENOXYACETIC ACID	<0.2
2,4-DICHLOROPHENOXYACETIC ACID	<0.4
2-SEC-BUTYL-4,6-DINITROPHENOL	<1.0
SILVEX (2,4,5-TP)	<0.2

SURROGATE PERCENT RECOVERIES

DCAA (%)	80

Analytical Technologies, Inc.

QUALITY CONTROL DATA

ATI I.D. : 206851

TEST : CHLORINATED HERBICIDES (EPA 8150)

CLIENT : NEW MEXICO ENVIRONMENT DEPARTMENT
PROJECT # : (NONE)
PROJECT NAME : CAFB
REF I.D. : 20685101

DATE ANALYZED : 06/25/92
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
2,4-D	<0.4	17	15	88	15	88	0
SILVEX	<0.2	3.3	3.3	100	3.5	106	6

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 20685101

TEST : ORGANOPHOSPHORUS PESTICIDES (EPA 8140)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/17/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: 06/22/92
CLIENT I.D.	: MW-I	DATE ANALYZED	: 06/26/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
THIONAZIN	<1.0
DISULFOTON	<1.0
FAMPHUR	<2.0
METHYL PARATHION	<1.0
PARATHION	<1.0
PHORATE	<2.0
TETRAETHYLDITHIOPYROPHOSPHATE	<1.0

SURROGATE PERCENT RECOVERIES

TRIPHENYLPHOSPHATE (%)	127

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 20685102

TEST : ORGANOPHOSPHORUS PESTICIDES (EPA 8140)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/17/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: 06/22/92
CLIENT I.D.	: MW-L	DATE ANALYZED	: 06/26/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
THIONAZIN	<1.0
DISULFOTON	<1.0
FAMPHUR	<2.0
METHYL PARATHION	<1.0
PARATHION	<1.0
PHORATE	<2.0
TETRAETHYLDITHIOPYROPHOSPHATE	<1.0

SURROGATE PERCENT RECOVERIES

TRIPHENYLPHOSPHATE (%)	126

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - RESULTS

REAGENT BLANK

TEST : ORGANOPHOSPHORUS PESTICIDES (EPA 8140)

		ATI I.D.	: 206851
CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE EXTRACTED	: 06/22/92
PROJECT #	: (NONE)	DATE ANALYZED	: 06/26/92
PROJECT NAME	: CAFB	UNITS	: UG/L
CLIENT I.D.	: REAGENT BLANK	DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
THIONAZIN	<1.0
DISULFOTON	<1.0
FAMPHUR	<2.0
METHYL PARATHION	<1.0
PARATHION	<1.0
PHORATE	<2.0
TETRAETHYLDITHIOPYROPHOSPHATE	<1.0

SURROGATE PERCENT RECOVERIES

TRIPHENYLPHOSPHATE (%)	91

Analytical Technologies, Inc.

QUALITY CONTROL DATA

ATI I.D. : 206851

TEST : ORGANOPHOSPHORUS PESTICIDES (EPA 8140)

CLIENT : NEW MEXICO ENVIRONMENT DEPARTMENT
PROJECT # : (NONE)
PROJECT NAME : CAFB
REF I.D. : 20649901

DATE ANALYZED : 06/27/92
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
M-PARATHION	<1.0	42	45	107	46	110	2
E-PARATHION	<1.0	51	55	108	56	110	2

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 20685101

TEST : ORGANOCHLORINE PESTICIDES & PCB'S (EPA 8080)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/17/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: 06/22/92
CLIENT I.D.	: MW-I	DATE ANALYZED	: 06/24/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
ALDRIN	<0.05
ALPHA BHC	<0.05
BETA BHC	<0.05
GAMMA BHC (LINDANE)	<0.05
DELTA BHC	<0.05
CHLORDANE	<0.5
4,4'-DDD	<0.1
4,4'-DDE	<0.1
4,4'-DDT	<0.1
DIELDRIN	<0.1
ENDOSULFAN I	<0.05
ENDOSULFAN II	<0.1
ENDOSULFAN SULFATE	<0.1
ENDRIN	<0.1
ENDRIN ALDEHYDE	<0.1
ENDRIN KETONE	<0.1
HEPTACHLOR	<0.05
HEPTACHLOR EPOXIDE	<0.05
METHOXYCHLOR	<0.5
TOXAPHENE	<1.0
AROCLOR 1016	<0.5
AROCLOR 1221	<0.5
AROCLOR 1232	<0.5
AROCLOR 1242	<0.5
AROCLOR 1248	<0.5
AROCLOR 1254	<0.5
AROCLOR 1260	<0.5
ISODRIN	<0.05
KEPONE	<0.5

SURROGATE PERCENT RECOVERIES

DBC (%)	95
DBOFBP (%)	98

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - RESULTS

REAGENT BLANK

TEST : ORGANOCHLORINE PESTICIDES & PCB'S (EPA 8080)

		ATI I.D.	: 206851
CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE EXTRACTED	: 06/22/92
PROJECT #	: (NONE)	DATE ANALYZED	: 06/24/92
PROJECT NAME	: CAFB	UNITS	: UG/L
CLIENT I.D.	: REAGENT BLANK	DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
ALDRIN	<0.05
ALPHA BHC	<0.05
BETA BHC	<0.05
GAMMA BHC (LINDANE)	<0.05
DELTA BHC	<0.05
CHLORDANE	<0.5
4,4'-DDD	<0.1
4,4'-DDE	<0.1
4,4'-DDT	<0.1
DIELDRIN	<0.1
ENDOSULFAN I	<0.05
ENDOSULFAN II	<0.1
ENDOSULFAN SULFATE	<0.1
ENDRIN	<0.1
ENDRIN ALDEHYDE	<0.1
ENDRIN KETONE	<0.1
HEPTACHLOR	<0.05
HEPTACHLOR EPOXIDE	<0.05
METHOXYCHLOR	<0.5
TOXAPHENE	<1.0
AROCLOR 1016	<0.5
AROCLOR 1221	<0.5
AROCLOR 1232	<0.5
AROCLOR 1242	<0.5
AROCLOR 1248	<0.5
AROCLOR 1254	<0.5
AROCLOR 1260	<0.5
ISODRIN	<0.05
KEPONE	<0.5

SURROGATE PERCENT RECOVERIES

DBC (%)	98
DBOFBP (%)	88

Analytical Technologies, Inc.

QUALITY CONTROL DATA

ATI I.D. : 206851

TEST : ORGANOCHLORINE PESTICIDES & PCB'S (EPA 8080)

CLIENT : NEW MEXICO ENVIRONMENT DEPARTMENT
PROJECT # : (NONE)
PROJECT NAME : CAFB
REF I.D. : 20649901

DATE ANALYZED : 06/24/92
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
GAMMA BHC	<0.05	2.0	1.9	95	1.9	95	0
HEPTACHLOR	<0.05	2.0	1.6	80	1.7	85	6
ALDRIN	<0.05	2.0	1.7	85	1.7	85	0
DIELDRIN	<0.1	2.0	1.8	90	1.8	90	0
ENDRIN	<0.1	2.0	1.8	90	1.8	90	0
DDT	<0.1	2.0	1.8	90	1.7	85	6

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685101

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/17/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: N/A
CLIENT I.D.	: MW-I	DATE ANALYZED	: 06/23/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
CHLOROMETHANE	<10
BROMOMETHANE	<10
VINYL CHLORIDE	<1
CHLOROETHANE	<1
METHYLENE CHLORIDE	<5
ACETONE	<10
CARBON DISULFIDE	<1
1,1-DICHLOROETHENE	<1
1,1-DICHLOROETHANE	<1
1,2-DICHLOROETHENE (TOTAL)	<1
CHLOROFORM	<1
1,2-DICHLOROETHANE	<1
2-BUTANONE (MEK)	<10
1,1,1-TRICHLOROETHANE	<1
CARBON TETRACHLORIDE	<1
VINYL ACETATE	<10
BROMODICHLOROMETHANE	<1
1,1,2,2-TETRACHLOROETHANE	<1
1,2-DICHLOROPROPANE	<1
TRANS-1,3-DICHLOROPROPENE	<1
TRICHLOROETHENE	<1
DIBROMOCHLOROMETHANE	<1
1,1,2-TRICHLOROETHANE	<1
BENZENE	<1
CIS-1,3-DICHLOROPROPENE	<1
BROMOFORM	<5
2-HEXANONE (MBK)	<10
4-METHYL-2-PENTANONE (MIBK)	<10
TETRACHLOROETHENE	<1
TOLUENE	<1
CHLOROBENZENE	<1
ETHYLBENZENE	<1
STYRENE	<1
TOTAL XYLENES	<1
ACETONITRILE	<100
ACROLEIN	<20
ACRYLONITRILE	<10
ALLYL CHLORIDE	<5
1,2-DIBROMO-3-CHLOROPROPANE	<5
CHLOROPRENE	<5
1,2-DIBROMOETHANE	<5

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Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685101

TEST : VOLATILE ORGANICS (EPA 8240)

COMPOUNDS	RESULTS
DIBROMOMETHANE	<5
DICHLORODIFLUOROMETHANE	<5
1,4-DIOXANE	<150
ETHYL CYANIDE	<25
ISOBUTYL ALCOHOL	<50
METHYL IODIDE	<5
METHACRYLONITRILE	<5
PYRIDINE	<100
1,1,1,2-TETRACHLOROETHANE	<5
TRANS-1,4-DICHLORO-2-BUTENE	<5
TRICHLOROMONOFLUOROMETHANE	<5
1,2,3-TRICHLOROPROPANE	<5
METHYL METHACRYLATE	<5
ETHYL METHACRYLATE	<5

SURROGATE PERCENT RECOVERIES

1,2-DICHLOROETHANE-D4 (%)	107
BFB (%)	101
TOLUENE-D8 (%)	101

Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 20685101

COMPOUNDS	RESULTS
HYDROCARBON C3	20
HYDROCARBON C3	5

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685102

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/17/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: N/A
CLIENT I.D.	: MW-L	DATE ANALYZED	: 06/20/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
CHLOROMETHANE	<10
BROMOMETHANE	<10
VINYL CHLORIDE	<1
CHLOROETHANE	<1
METHYLENE CHLORIDE	<5
ACETONE	<10
CARBON DISULFIDE	<1
1,1-DICHLOROETHENE	<1
1,1-DICHLOROETHANE	<1
1,2-DICHLOROETHENE (TOTAL)	<1
CHLOROFORM	<1
1,2-DICHLOROETHANE	<1
2-BUTANONE (MEK)	<10
1,1,1-TRICHLOROETHANE	<1
CARBON TETRACHLORIDE	<1
VINYL ACETATE	<10
BROMODICHLOROMETHANE	<1
1,1,2,2-TETRACHLOROETHANE	<1
1,2-DICHLOROPROPANE	<1
TRANS-1,3-DICHLOROPROPENE	<1
TRICHLOROETHENE	<1
DIBROMOCHLOROMETHANE	<1
1,1,2-TRICHLOROETHANE	<1
BENZENE	<1
CIS-1,3-DICHLOROPROPENE	<1
BROMOFORM	<5
2-HEXANONE (MBK)	<10
4-METHYL-2-PENTANONE (MIBK)	<10
TETRACHLOROETHENE	<1
TOLUENE	<1
CHLOROBENZENE	<1
ETHYLBENZENE	<1
STYRENE	<1
TOTAL XYLENES	<1
ACETONITRILE	<100
ACROLEIN	<20
ACRYLONITRILE	<10
ALLYL CHLORIDE	<5
1,2-DIBROMO-3-CHLOROPROPANE	<5
CHLOROPRENE	<5
1,2-DIBROMOETHANE	<5

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Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 20685102

COMPOUNDS	RESULTS
NO ADDITIONAL COMPOUNDS	<5

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685102

TEST : VOLATILE ORGANICS (EPA 8240)

COMPOUNDS	RESULTS
DIBROMOMETHANE	<5
DICHLORODIFLUOROMETHANE	<5
1,4-DIOXANE	<150
ETHYL CYANIDE	<25
ISOBUTYL ALCOHOL	<50
METHYL IODIDE	<5
METHACRYLONITRILE	<5
PYRIDINE	<100
1,1,1,2-TETRACHLOROETHANE	<5
TRANS-1,4-DICHLORO-2-BUTENE	<5
TRICHLOROMONOFLUOROMETHANE	<5
1,2,3-TRICHLOROPROPANE	<5
METHYL METHACRYLATE	<5
ETHYL METHACRYLATE	<5

SURROGATE PERCENT RECOVERIES

1,2-DICHLOROETHANE-D4 (%)	101
BFB (%)	102
TOLUENE-D8 (%)	107

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY - RESULTS

ATI I.D. : 20685102

TEST : ORGANOCHLORINE PESTICIDES & PCB'S (EPA 8080)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/17/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: 06/22/92
CLIENT I.D.	: MW-L	DATE ANALYZED	: 06/24/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
ALDRIN	<0.05
ALPHA BHC	<0.05
BETA BHC	<0.05
GAMMA BHC (LINDANE)	<0.05
DELTA BHC	<0.05
CHLORDANE	<0.5
4,4'-DDD	<0.1
4,4'-DDE	<0.1
4,4'-DDT	<0.1
DIELDRIN	<0.1
ENDOSULFAN I	<0.05
ENDOSULFAN II	<0.1
ENDOSULFAN SULFATE	<0.1
ENDRIN	<0.1
ENDRIN ALDEHYDE	<0.1
ENDRIN KETONE	<0.1
HEPTACHLOR	<0.05
HEPTACHLOR EPOXIDE	<0.05
METHOXYCHLOR	<0.5
TOXAPHENE	<1.0
AROCLOR 1016	<0.5
AROCLOR 1221	<0.5
AROCLOR 1232	<0.5
AROCLOR 1242	<0.5
AROCLOR 1248	<0.5
AROCLOR 1254	<0.5
AROCLOR 1260	<0.5
ISODRIN	<0.05
KEPONE	<0.5

SURROGATE PERCENT RECOVERIES

DBC (%)	92
DBOFBP (%)	96

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685103

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/09/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: N/A
CLIENT I.D.	: TRIP BLANK	DATE ANALYZED	: 06/20/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
CHLOROMETHANE	<10
BROMOMETHANE	<10
VINYL CHLORIDE	<1
CHLOROETHANE	<1
METHYLENE CHLORIDE	<5
ACETONE	<10
CARBON DISULFIDE	<1
1,1-DICHLOROETHENE	<1
1,1-DICHLOROETHANE	<1
1,2-DICHLOROETHENE (TOTAL)	<1
CHLOROFORM	<1
1,2-DICHLOROETHANE	<1
2-BUTANONE (MEK)	<10
1,1,1-TRICHLOROETHANE	<1
CARBON TETRACHLORIDE	<1
VINYL ACETATE	<10
BROMODICHLOROMETHANE	<1
1,1,2,2-TETRACHLOROETHANE	<1
1,2-DICHLOROPROPANE	<1
TRANS-1,3-DICHLOROPROPENE	<1
TRICHLOROETHENE	<1
DIBROMOCHLOROMETHANE	<1
1,1,2-TRICHLOROETHANE	<1
BENZENE	<1
CIS-1,3-DICHLOROPROPENE	<1
BROMOFORM	<5
2-HEXANONE (MBK)	<10
4-METHYL-2-PENTANONE (MIBK)	<10
TETRACHLOROETHENE	<1
TOLUENE	<1
CHLOROBENZENE	<1
ETHYLBENZENE	<1
STYRENE	<1
TOTAL XYLENES	<1
ACETONITRILE	<100
ACROLEIN	<20
ACRYLONITRILE	<10
ALLYL CHLORIDE	<5
1,2-DIBROMO-3-CHLOROPROPANE	<5
CHLOROPRENE	<5
1,2-DIBROMOETHANE	<5

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Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685103

TEST : VOLATILE ORGANICS (EPA 8240)

COMPOUNDS	RESULTS
DIBROMOMETHANE	<5
DICHLORODIFLUOROMETHANE	<5
1,4-DIOXANE	<150
ETHYL CYANIDE	<25
ISOBUTYL ALCOHOL	<50
METHYL IODIDE	<5
METHACRYLONITRILE	<5
PYRIDINE	<100
1,1,1,2-TETRACHLOROETHANE	<5
TRANS-1,4-DICHLORO-2-BUTENE	<5
TRICHLOROMONOFLUOROMETHANE	<5
1,2,3-TRICHLOROPROPANE	<5
METHYL METHACRYLATE	<5
ETHYL METHACRYLATE	<5

SURROGATE PERCENT RECOVERIES

1,2-DICHLOROETHANE-D4 (%)	95
BFB (%)	93
TOLUENE-D8 (%)	100

Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : VOLATILE ORGANICS (EPA 8240)

ATI I.D. : 20685103

COMPOUNDS	RESULTS
NO ADDITIONAL COMPOUNDS	<5

Analytical Technologies, Inc.

GCMS - RESULTS

REAGENT BLANK

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	ATI I.D.	: 206851
PROJECT #	: (NONE)	DATE EXTRACTED	: 06/23/92
PROJECT NAME	: CAFB	DATE ANALYZED	: 06/23/92
CLIENT I.D.	: REAGENT BLANK	UNITS	: UG/L
		DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
CHLOROMETHANE	<10
BROMOMETHANE	<10
VINYL CHLORIDE	<1
CHLOROETHANE	<1
METHYLENE CHLORIDE	<5
ACETONE	<10
CARBON DISULFIDE	<1
1,1-DICHLOROETHENE	<1
1,1-DICHLOROETHANE	<1
1,2-DICHLOROETHENE (TOTAL)	<1
CHLOROFORM	<1
1,2-DICHLOROETHANE	<1
2-BUTANONE (MEK)	<10
1,1,1-TRICHLOROETHANE	<1
CARBON TETRACHLORIDE	<1
VINYL ACETATE	<10
BROMODICHLOROMETHANE	<1
1,1,2,2-TETRACHLOROETHANE	<1
1,2-DICHLOROPROPANE	<1
TRANS-1,3-DICHLOROPROPENE	<1
TRICHLOROETHENE	<1
DIBROMOCHLOROMETHANE	<1
1,1,2-TRICHLOROETHANE	<1
BENZENE	<1
CIS-1,3-DICHLOROPROPENE	<1
BROMOFORM	<5
2-HEXANONE (MBK)	<10
4-METHYL-2-PENTANONE (MIBK)	<10
TETRACHLOROETHENE	<1
TOLUENE	<1
CHLOROBENZENE	<1
ETHYLBENZENE	<1
STYRENE	<1
TOTAL XYLENES	2
ACETONITRILE	<100
ACROLEIN	<20
ACRYLONITRILE	<10
ALLYL CHLORIDE	<5
1,2-DIBROMO-3-CHLOROPROPANE	<5
CHLOROPRENE	<5
1,2-DIBROMOETHANE	<5
DIBROMOMETHANE	<5
DICHLORODIFLUOROMETHANE	<5

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Analytical Technologies, Inc.

GCMS - RESULTS

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ATI I.D. : 206851

TEST : VOLATILE ORGANICS (EPA 8240)

COMPOUNDS	RESULTS
1,4-DIOXANE	<150
ETHYL CYANIDE	<25
ISOBUTYL ALCOHOL	<50
METHYL IODIDE	<5
METHACRYLONITRILE	<5
PYRIDINE	<100
1,1,1,2-TETRACHLOROETHANE	<5
TRANS-1,4-DICHLORO-2-BUTENE	<5
TRICHLOROMONOFLUOROMETHANE	<5
1,2,3-TRICHLOROPROPANE	<5
METHYL METHACRYLATE	<5
ETHYL METHACRYLATE	<5

SURROGATE PERCENT RECOVERIES

1,2-DICHLOROETHANE-D4 (%)	107
BFB (%)	106
TOLUENE-D8 (%)	106

Analytical Technologies, Inc.

GCMS - RESULTS

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TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	ATI I.D.	: 206851
PROJECT #	: (NONE)	DATE EXTRACTED	: 06/20/92
PROJECT NAME	: CAFB	DATE ANALYZED	: 06/20/92
CLIENT I.D.	: REAGENT BLANK	UNITS	: UG/L
		DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
CHLOROMETHANE	<10
BROMOMETHANE	<10
VINYL CHLORIDE	<1
CHLOROETHANE	<1
METHYLENE CHLORIDE	<5
ACETONE	<10
CARBON DISULFIDE	<1
1,1-DICHLOROETHENE	<1
1,1-DICHLOROETHANE	<1
1,2-DICHLOROETHENE (TOTAL)	<1
CHLOROFORM	<1
1,2-DICHLOROETHANE	<1
2-BUTANONE (MEK)	<10
1,1,1-TRICHLOROETHANE	<1
CARBON TETRACHLORIDE	<1
VINYL ACETATE	<10
BROMODICHLOROMETHANE	<1
1,1,2,2-TETRACHLOROETHANE	<1
1,2-DICHLOROPROPANE	<1
TRANS-1,3-DICHLOROPROPENE	<1
TRICHLOROETHENE	<1
DIBROMOCHLOROMETHANE	<1
1,1,2-TRICHLOROETHANE	<1
BENZENE	<1
CIS-1,3-DICHLOROPROPENE	<1
BROMOFORM	<5
2-HEXANONE (MBK)	<10
4-METHYL-2-PENTANONE (MIBK)	<10
TETRACHLOROETHENE	<1
TOLUENE	<1
CHLOROBENZENE	<1
ETHYLBENZENE	<1
STYRENE	<1
TOTAL XYLENES	<1
ACETONITRILE	<100
ACROLEIN	<20
ACRYLONITRILE	<10
ALLYL CHLORIDE	<5
1,2-DIBROMO-3-CHLOROPROPANE	<5
CHLOROPRENE	<5
1,2-DIBROMOETHANE	<5
DIBROMOMETHANE	<5
DICHLORODIFLUOROMETHANE	<5

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Analytical Technologies, Inc.

GCMS - RESULTS

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ATI I.D. : 206851

TEST : VOLATILE ORGANICS (EPA 8240)

COMPOUNDS	RESULTS
1,4-DIOXANE	<150
ETHYL CYANIDE	<25
ISOBUTYL ALCOHOL	<50
METHYL IODIDE	<5
METHACRYLONITRILE	<5
PYRIDINE	<100
1,1,1,2-TETRACHLOROETHANE	<5
TRANS-1,4-DICHLORO-2-BUTENE	<5
TRICHLOROMONOFLUOROMETHANE	<5
1,2,3-TRICHLOROPROPANE	<5
METHYL METHACRYLATE	<5
ETHYL METHACRYLATE	<5

SURROGATE PERCENT RECOVERIES

1,2-DICHLOROETHANE-D4 (%)	90
BFB (%)	90
TOLUENE-D8 (%)	100

Analytical Technologies, Inc.

QUALITY CONTROL DATA

ATI I.D. : 206851

TEST : VOLATILE ORGANICS (EPA 8240)

CLIENT : NEW MEXICO ENVIRONMENT DEPARTMENT
PROJECT # : (NONE)
PROJECT NAME : CAFB
REF I.D. : 20685101

DATE ANALYZED : 06/23/92
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
1,1-DICHLOROETHENE	<1	50	48	96	52	104	8
TRICHLOROETHENE	<1	50	43	86	44	88	2
CHLOROBENZENE	<1	50	51	102	52	104	2
TOLUENE	<1	50	51	102	55	110	8
BENZENE	<1	50	46	92	49	98	6

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685101

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/17/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: 06/19/92
CLIENT I.D.	: MW-I	DATE ANALYZED	: 06/22/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
ACETOPHENONE	<10
2-ACETYLAMINOFLUORENE	<10
a,a-DIMETHYLPHENETHYLAMINE	<10
4-AMINOBIPHENYL	<10
ARAMITE	<50
CHLOROBENZILATE	<10
DIALLATE	<10
2,6-DICHLOROPHENOL	<10
DIMETHOATE	<10
p-(DIMETHYLAMINO)AZOBENZENE	<10
7,12-DIMETHYLBENZO(a)ANTHRACENE	<10
3,3'-DIMETHYLBENZIDINE	<10
m-DINITROBENZENE	<10
DIPHENYLAMINE	<10
ETHYL METHANESULFONATE	<10
HEXACHLOROPHENE	<10
HEXACHLOROPROPENE	<10
ISOSAFROLE	<10
METHAPYRILENE	<10
3-METHYLCHOLANTHRENE	<10
METHYL METHANESULFONATE	<10
3-METHYLPHENOL (m-CRESOL)	<10
1,4-NAPHTHOQUINONE	<10
1-NAPHTHYLAMINE	<10
2-NAPHTHYLAMINE	<10
5-NITRO-O-TOLUIDINE	<10
4-NITROQUINOLINE-1-OXIDE	<10
N-NITROSODIETHYLAMINE	<10
N-NITROSODI-BUTYLAMINE	<10
N-NITROSOMETHYLETHYLAMINE	<200
N-NITROSOMORPHOLINE	<10
N-NITROSOPIPERIDINE	<10
N-NITROSOPYRROLIDINE	<10
PENTACHLOROBENZENE	<10
PENTACHLORONITROBENZENE	<10
PENTACHLOROETHANE	<10
PHENACETIN	<10
p-PHENYLENEDIAMINE	<10
2-PICOLINE	<10
PRONAMIDE	<10
SAFROLE	<10

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Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685101

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/17/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: 06/19/92
CLIENT I.D.	: MW-I	DATE ANALYZED	: 06/22/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
N-NITROSODIMETHYLAMINE	<10
PHENOL	<10
ANILINE	<10
BIS(2-CHLOROETHYL)ETHER	<10
2-CHLOROPHENOL	<10
1,3-DICHLOROBENZENE	<10
1,4-DICHLOROBENZENE	<10
BENZYL ALCOHOL	<10
1,2-DICHLOROBENZENE	<10
2-METHYLPHENOL	<10
BIS(2-CHLOROISOPROPYL)ETHER	<10
4-METHYLPHENOL	<10
N-NITROSO-DI-N-PROPYLAMINE	<10
HEXACHLOROETHANE	<10
NITROBENZENE	<10
ISOPHORONE	<10
2-NITROPHENOL	<10
2,4-DIMETHYLPHENOL	<10
BENZOIC ACID	<50
BIS(2-CHLOROETHOXY)METHANE	<10
2,4-DICHLOROPHENOL	<10
1,2,4-TRICHLOROBENZENE	<10
NAPHTHALENE	<10
4-CHLOROANILINE	<10
HEXACHLOROBUTADIENE	<10
4-CHLORO-3-METHYLPHENOL	<10
2-METHYLNAPHTHALENE	<10
HEXACHLOROCYCLOPENTADIENE	<10
2,4,6-TRICHLOROPHENOL	<10
2,4,5-TRICHLOROPHENOL	<50
2-CHLORONAPHTHALENE	<10
2-NITROANILINE	<50
DIMETHYLPHTHALATE	<10
ACENAPHTHYLENE	<10
3-NITROANILINE	<50
ACENAPHTHENE	<10
2,4-DINITROPHENOL	<50
4-NITROPHENOL	<50
DIBENZOFURAN	<10
2,4-DINITROTOLUENE	<10
2,6-DINITROTOLUENE	<10

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Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685101

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

COMPOUNDS	RESULTS
1,2,4,5-TETRACHLOROBENZENE	<10
2,3,4,6-TETRACHLOROPHENOL	<10
o-TOLUIDINE	<10
1,3,5-TRINITROBENZENE	<10
O,O,O-TRIETHYLPHOSPHOROTHIOATE	<10

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685102

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

COMPOUNDS	RESULTS
DIETHYLPHTHALATE	<10
4-CHLOROPHENYL-PHENYLETHER	<10
FLUORENE	<10
4-NITROANILINE	<50
4,6-DINITRO-2-METHYLPHENOL	<50
N-NITROSODIPHENYLAMINE	<10
4-BROMOPHENYL-PHENYLETHER	<10
HEXACHLOROBENZENE	<10
PENTACHLOROPHENOL	<50
PHENANTHRENE	<10
ANTHRACENE	<10
DI-N-BUTYLPHTHALATE	<10
FLUORANTHENE	<10
BENZIDINE	<100
PYRENE	<10
BUTYLBENZYLPHTHALATE	<10
3,3'-DICHLOROBENZIDINE	<20
BENZO(a)ANTHRACENE	<10
BIS(2-ETHYLHEXYL)PHTHALATE	<10
CHRYSENE	<10
DI-N-OCTYLPHTHALATE	<10
BENZO(b)FLUORANTHENE	<10
BENZO(k)FLUORANTHENE	<10
BENZO(a)PYRENE	<10
INDENO(1,2,3-cd)PYRENE	<10
DIBENZO(a,h)ANTHRACENE	<10
BENZO(g,h,i)PERYLENE	<10

SURROGATE PERCENT RECOVERIES

NITROBENZENE-D5 (%)	88
2-FLUOROBIPHENYL (%)	96
TERPHENYL (%)	91
PHENOL-D6 (%)	57
2-FLUOROPHENOL (%)	74
2,4,6-TRIBROMOPHENOL (%)	96

Analytical Technologies, Inc.

ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

ATI I.D. : 20685102

COMPOUNDS	RESULTS
METHYLCYCLOPENTANOL	500

Analytical Technologies, Inc.

GCMS - RESULTS

REAGENT BLANK

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

		ATI I.D.	: 206851
CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE EXTRACTED	: 06/19/92
PROJECT #	: (NONE)	DATE ANALYZED	: 06/22/92
PROJECT NAME	: CAFB	UNITS	: UG/L
CLIENT I.D.	: REAGENT BLANK	DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
ACETOPHENONE	<10
2-ACETYLAMINOFLUORENE	<10
a,a-DIMETHYLPHENETHYLAMINE	<10
4-AMINOBIPHENYL	<10
ARAMITE	<50
CHLOROBENZILATE	<10
DIALLATE	<10
2,6-DICHLOROPHENOL	<10
DIMETHOATE	<10
p-(DIMETHYLAMINO)AZOBENZENE	<10
7,12-DIMETHYLBENZO(a)ANTHRACENE	<10
3,3'-DIMETHYLBENZIDINE	<10
m-DINITROBENZENE	<10
DIPHENYLAMINE	<10
ETHYL METHANESULFONATE	<10
HEXACHLOROPHENE	<10
HEXACHLOROPROPENE	<10
ISOSAFROLE	<10
METHAPYRILENE	<10
3-METHYLCHOLANTHRENE	<10
METHYL METHANESULFONATE	<10
3-METHYLPHENOL (m-CRESOL)	<10
1,4-NAPHTHOQUINONE	<10
1-NAPHTHYLAMINE	<10
2-NAPHTHYLAMINE	<10
5-NITRO-O-TOLUIDINE	<10
4-NITROQUINOLINE-1-OXIDE	<10
N-NITROSODIETHYLAMINE	<10
N-NITROSODI-BUTYLAMINE	<10
N-NITROSOMETHYLETHYLAMINE	<200
N-NITROSOMORPHOLINE	<10
N-NITROSOPIPERIDINE	<10
N-NITROSOPYRROLIDINE	<10
PENTACHLOROBENZENE	<10
PENTACHLORONITROBENZENE	<10
PENTACHLOROETHANE	<10
PHENACETIN	<10
p-PHENYLENEDIAMINE	<10
2-PICOLINE	<10
PRONAMIDE	<10
SAFROLE	<10
1,2,4,5-TETRACHLOROBENZENE	<10
2,3,4,6-TETRACHLOROPHENOL	<10

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Analytical Technologies, Inc.

GCMS - RESULTS

REAGENT BLANK

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	ATI I.D.	: 206851
PROJECT #	: (NONE)	DATE EXTRACTED	: 06/19/92
PROJECT NAME	: CAFB	DATE ANALYZED	: 06/22/92
CLIENT I.D.	: REAGENT BLANK	UNITS	: UG/L
		DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
N-NITROSODIMETHYLAMINE	<10
PHENOL	<10
ANILINE	<10
BIS(2-CHLOROETHYL)ETHER	<10
2-CHLOROPHENOL	<10
1,3-DICHLOROBENZENE	<10
1,4-DICHLOROBENZENE	<10
BENZYL ALCOHOL	<10
1,2-DICHLOROBENZENE	<10
2-METHYLPHENOL	<10
BIS(2-CHLOROISOPROPYL)ETHER	<10
4-METHYLPHENOL	<10
N-NITROSO-DI-N-PROPYLAMINE	<10
HEXACHLOROETHANE	<10
NITROBENZENE	<10
ISOPHORONE	<10
2-NITROPHENOL	<10
2,4-DIMETHYLPHENOL	<10
BENZOIC ACID	<50
BIS(2-CHLOROETHOXY)METHANE	<10
2,4-DICHLOROPHENOL	<10
1,2,4-TRICHLOROBENZENE	<10
NAPHTHALENE	<10
4-CHLOROANILINE	<10
HEXACHLOROBUTADIENE	<10
4-CHLORO-3-METHYLPHENOL	<10
2-METHYLNAPHTHALENE	<10
HEXACHLOROCYCLOPENTADIENE	<10
2,4,6-TRICHLOROPHENOL	<10
2,4,5-TRICHLOROPHENOL	<50
2-CHLORONAPHTHALENE	<10
2-NITROANILINE	<50
DIMETHYLPHTHALATE	<10
ACENAPHTHYLENE	<10
3-NITROANILINE	<50
ACENAPHTHENE	<10
2,4-DINITROPHENOL	<50
4-NITROPHENOL	<50
DIBENZOFURAN	<10
2,4-DINITROTOLUENE	<10
2,6-DINITROTOLUENE	<10
DIETHYLPHTHALATE	<10
4-CHLOROPHENYL-PHENYLETHER	<10

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Analytical Technologies, Inc.

GCMS - RESULTS

REAGENT BLANK

ATI I.D. : 206851

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

COMPOUNDS	RESULTS
o-TOLUIDINE	<10
1,3,5-TRINITROBENZENE	<10
O,O,O-TRIETHYLPHOSPHOROTHIOATE	<10

Analytical Technologies, Inc.

GCMS - RESULTS

REAGENT BLANK

ATI I.D. : 206851

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

COMPOUNDS	RESULTS
FLUORENE	<10
4-NITROANILINE	<50
4,6-DINITRO-2-METHYLPHENOL	<50
N-NITROSODIPHENYLAMINE	<10
4-BROMOPHENYL-PHENYLETHER	<10
HEXACHLOROBENZENE	<10
PENTACHLOROPHENOL	<50
PHENANTHRENE	<10
ANTHRACENE	<10
DI-N-BUTYLPHTHALATE	<10
FLUORANTHENE	<10
BENZIDINE	<100
PYRENE	<10
BUTYLBENZYLPHTHALATE	<10
3,3'-DICHLOROBENZIDINE	<20
BENZO(a)ANTHRACENE	<10
BIS(2-ETHYLHEXYL)PHTHALATE	<10
CHRYSENE	<10
DI-N-OCTYLPHTHALATE	<10
BENZO(b)FLUORANTHENE	<10
BENZO(k)FLUORANTHENE	<10
BENZO(a)PYRENE	<10
INDENO(1,2,3-cd)PYRENE	<10
DIBENZO(a,h)ANTHRACENE	<10
BENZO(g,h,i)PERYLENE	<10

SURROGATE PERCENT RECOVERIES

NITROBENZENE-D5 (%)	96
2-FLUOROBIPHENYL (%)	96
TERPHENYL (%)	94
PHENOL-D6 (%)	71
2-FLUOROPHENOL (%)	64
2,4,6-TRIBROMOPHENOL (%)	87

Analytical Technologies, Inc.

QUALITY CONTROL DATA

ATI I.D. : 206851

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

CLIENT : NEW MEXICO ENVIRONMENT DEPARTMENT
PROJECT # : (NONE)
PROJECT NAME : CAFB
REF I.D. : 20699908

DATE ANALYZED : 06/19/92
SAMPLE MATRIX :
UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
1,2,4-TRICHLOROBENZENE	<10	100	91	91	89	89	2
ACENAPHTHENE	<10	100	80	80	84	84	5
2,4-DINITROTOLUENE	<10	100	79	79	83	83	5
PYRENE	<10	100	112	112	120	120	7
N-NITROSO-DI-N-PROPYL AMINE	<10	100	91	91	94	94	3
1,4-DICHLOROBENZENE	<10	100	76	76	69	69	10
PENTACHLOROPHENOL	<50	200	127	64	126	63	1
PHENOL	<10	220	153	70	151	69	1
2-CHLOROPHENOL	<10	220	159	72	161	73	1
4-CHLORO-3-METHYLPHENOL	<10	220	171	78	169	77	1
4-NITROPHENOL	<50	200	126	63	119	60	6

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685101

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

COMPOUNDS	RESULTS
DIETHYLPHTHALATE	<10
4-CHLOROPHENYL-PHENYLETHER	<10
FLUORENE	<10
4-NITROANILINE	<50
4,6-DINITRO-2-METHYLPHENOL	<50
N-NITROSODIPHENYLAMINE	<10
4-BROMOPHENYL-PHENYLETHER	<10
HEXACHLOROBENZENE	<10
PENTACHLOROPHENOL	<50
PHENANTHRENE	<10
ANTHRACENE	<10
DI-N-BUTYLPHTHALATE	<10
FLUORANTHENE	<10
BENZIDINE	<100
PYRENE	<10
BUTYLBENZYLPHTHALATE	<10
3,3'-DICHLOROBENZIDINE	<20
BENZO(a)ANTHRACENE	<10
BIS(2-ETHYLHEXYL)PHTHALATE	<10
CHRYSENE	<10
DI-N-OCTYLPHTHALATE	<10
BENZO(b)FLUORANTHENE	<10
BENZO(k)FLUORANTHENE	<10
BENZO(a)PYRENE	<10
INDENO(1,2,3-cd)PYRENE	<10
DIBENZO(a,h)ANTHRACENE	<10
BENZO(g,h,i)PERYLENE	<10

SURROGATE PERCENT RECOVERIES

NITROBENZENE-D5 (%)	93
2-FLUOROBIPHENYL (%)	94
TERPHENYL (%)	88
PHENOL-D6 (%)	75
2-FLUOROPHENOL (%)	66
2,4,6-TRIBROMOPHENOL (%)	83

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ADDITIONAL COMPOUNDS (SEMI-QUANTITATED)

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

ATI I.D. : 20685101

COMPOUNDS	RESULTS
NO ADDITIONAL COMPOUNDS	<20

Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685102

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/17/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: 06/19/92
CLIENT I.D.	: MW-L	DATE ANALYZED	: 06/22/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
ACETOPHENONE	<10
2-ACETYLAMINOFLUORENE	<10
a,a-DIMETHYLPHENETHYLAMINE	<10
4-AMINOBIPHENYL	<10
ARAMITE	<50
CHLOROBENZILATE	<10
DIALLATE	<10
2,6-DICHLOROPHENOL	<10
DIMETHOATE	<10
p-(DIMETHYLAMINO)AZOBENZENE	<10
7,12-DIMETHYLBENZO(a)ANTHRACENE	<10
3,3'-DIMETHYLBENZIDINE	<10
m-DINITROBENZENE	<10
DIPHENYLAMINE	<10
ETHYL METHANESULFONATE	<10
HEXACHLOROPHENE	<10
HEXACHLOROPROPENE	<10
ISOSAFROLE	<10
METHAPYRILENE	<10
3-METHYLCHOLANTHRENE	<10
METHYL METHANESULFONATE	<10
3-METHYLPHENOL (m-CRESOL)	<10
1,4-NAPHTHOQUINONE	<10
1-NAPHTHYLAMINE	<10
2-NAPHTHYLAMINE	<10
5-NITRO-O-TOLUIDINE	<10
4-NITROQUINOLINE-1-OXIDE	<10
N-NITROSODIETHYLAMINE	<10
N-NITROSODI-BUTYLAMINE	<10
N-NITROSOMETHYLETHYLAMINE	<200
N-NITROSOMORPHOLINE	<10
N-NITROSOPIPERIDINE	<10
N-NITROSOPYRROLIDINE	<10
PENTACHLOROBENZENE	<10
PENTACHLORONITROBENZENE	<10
PENTACHLOROETHANE	<10
PHENACETIN	<10
p-PHENYLENEDIAMINE	<10
2-PICOLINE	<10
PRONAMIDE	<10
SAFROLE	<10

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Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685102

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

CLIENT	: NEW MEXICO ENVIRONMENT DEPARTMENT	DATE SAMPLED	: 06/17/92
PROJECT #	: (NONE)	DATE RECEIVED	: 06/18/92
PROJECT NAME	: CAFB	DATE EXTRACTED	: 06/19/92
CLIENT I.D.	: MW-L	DATE ANALYZED	: 06/22/92
SAMPLE MATRIX	: AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
N-NITROSODIMETHYLAMINE	<10
PHENOL	<10
ANILINE	<10
BIS(2-CHLOROETHYL)ETHER	<10
2-CHLOROPHENOL	<10
1,3-DICHLOROBENZENE	<10
1,4-DICHLOROBENZENE	<10
BENZYL ALCOHOL	<10
1,2-DICHLOROBENZENE	<10
2-METHYLPHENOL	<10
BIS(2-CHLOROISOPROPYL)ETHER	<10
4-METHYLPHENOL	<10
N-NITROSO-DI-N-PROPYLAMINE	<10
HEXACHLOROETHANE	<10
NITROBENZENE	<10
ISOPHORONE	<10
2-NITROPHENOL	<10
2,4-DIMETHYLPHENOL	<10
BENZOIC ACID	<50
BIS(2-CHLOROETHOXY)METHANE	<10
2,4-DICHLOROPHENOL	<10
1,2,4-TRICHLOROBENZENE	<10
NAPHTHALENE	<10
4-CHLOROANILINE	<10
HEXACHLOROBUTADIENE	<10
4-CHLORO-3-METHYLPHENOL	<10
2-METHYLNAPHTHALENE	<10
HEXACHLOROCYCLOPENTADIENE	<10
2,4,6-TRICHLOROPHENOL	<10
2,4,5-TRICHLOROPHENOL	<50
2-CHLORONAPHTHALENE	<10
2-NITROANILINE	<50
DIMETHYLPHTHALATE	<10
ACENAPHTHYLENE	<10
3-NITROANILINE	<50
ACENAPHTHENE	<10
2,4-DINITROPHENOL	<50
4-NITROPHENOL	<50
DIBENZOFURAN	<10
2,4-DINITROTOLUENE	<10
2,6-DINITROTOLUENE	<10

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Analytical Technologies, Inc.

GCMS - RESULTS

ATI I.D. : 20685102

TEST : SEMI-VOLATILE ORGANICS (EPA 8270)

COMPOUNDS	RESULTS
1,2,4,5-TETRACHLOROBENZENE	<10
2,3,4,6-TETRACHLOROPHENOL	<10
o-TOLUIDINE	<10
1,3,5-TRINITROBENZENE	<10
O,O,O-TRIETHYLPHOSPHOROTHIOATE	<10