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ATTACHMENT J

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RESULTS OF GROUND-WATER MONITORING PROGRAM

LOCKHEED-CALIFORNIA COMPANY PLANTS A-1, B-1, B-6 AND C-1

BURBANK, CALIFORNIA

Presented to

CALIFORNIA REGIONAL WATER
QUALITY CONTROL BOARD

LOS ANGELES REGION

APRIL 30, 1987

Lockheed-California Company

GREGG & ASSOCIATES, INC.
HUNTINGTON BEACH, CA

VOLUME 2

APPENDIX C

AnalyticalTechnologies, Inc.
Corporate Offices 5550 Morehouse Drive

ATI I.D. 01503

February 4, 1987

Gregg & Associates
18351 Beach Blvd.
Huntington Beach, CA 92648

Project : LOCKHEED

Project No.: 86-106-022

Attention: Pat Keating

On January 14, 1986, Analytical Technologies, Inc. received eight (8) water samples for analysis. Eight (8) samples were analyzed for cyanide, total dissolved solids, sulfate, nitrate (as nitrogen), bicarbonate (as CaCO3), phosphate (as phosphorus), chloride, fluoride, calcium, manganese, sodium, bromide, potassium, electrical conductivity, and volatile organics. Six (6) samples were analyzed for the California Administrative Code metals and total organic carbons. Two (2) samples were analyzed for the Priority Pollutant Metals, total phenols, and base/neutral and acid extractables including pesticides and polychlorinated biphenyls.

The manganese, calcium, sodium, and potassium were analyzed using atomic emission spectroscopy/inductively coupled argon plasma in accordance with EPA method 6010. The nitrate (as nitrogen), chloride, and sulfate were analyzed in accordance with EPA method 300.0. The phosphate (as phosphorus) was analyzed using the autoanalyzer in accordance with EPA method 365.1. The bromide was analyzed in accordance with SM 405. The fluoride was analyzed in accordance with EPA method 340.2. The electrical conductivity, total dissolved solids, and bicarbonate (as CaCO3) were analyzed in accordance with EPA methods 120.1, 160.1, and 310.1,respectively.

The metals zinc, nickel, chromium, copper, silver, molybdenum, cobalt, vanadium, beryllium, and barium were analyzed using atomic emission spectroscopy by inductively coupled argon plasma in accordance with EPA method 6010. The metals arsenic, cadmium, lead, antimony, selenium, and thallium were analyzed using atomic absorption graphite furnace in accordance with EPA methods outlined in the 7000 series. The mercury was analyzed using cold vapor atomic absorption technique in accordance with EPA method 7471.

The cyanide, and total phenols were analyzed in accordance with EPA methods 335.3 and 420.2, respectively.

The TOC was analyzed using Xertex/Dohrmann DC-80 carbon analyzer in accordance with EPA method 415.2.

The base/neutral and acid extractables including pesticides and polychlorinated biphenyls were analyzed using gas chromatography/ mass spectroscopy in accordance with EPA method 625. The volatile organics were analyzed using gas chromatography/mass spectroscopy in accordance with EPA method 624. Sample results have been corrected for constituents found in the reagent blank.

The results of these analyses and the quality control data are enclosed.

Marcilen Lindsey
Inorganics Supervisor

Richard M. Amano
Laboratory Manager

Note: The samples from this project will be disposed of 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.

ATI I.D. 01503

DATA SHEET

CLIENT :GREGG & ASSOCIATES
PROJECT:LOCKHEED 86-106-022
SAMPLE MATRIX:WATER

DATE SAMPLED:1-13-87
DATE RECEIVED:1-14-87
UNITS : mg/L

ATI SAMPLE I.D.	CLIENT SAMPLE I.D.	CYANIDE	TOTAL PHENOLS	TOTAL ORGANIC CARBON
-001	A-1-MW1-1	<0.01	<0.02	---
-002	A-1-MW1-2	<0.01	---	1.6
-003	A-1-MW1-3	<0.01	---	1.9
-004	A-1-MW1-4	<0.01	---	1.2
-005	A-1-MW1-5	<0.01	---	0.7
-006	A-1-MW1-6	<0.01	---	0.9
-007	A-1-MW1-7	<0.01	---	0.8
-008	A-1-MW1-8	<0.01	<0.02	---

ATI I.D. 01503

GENERAL MINERALS

CLIENT : GREGG & ASSOCIATES
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-13-87
SAMPLE MATRIX : WATER
UNITS : mg/L

PARAMETER	CLIENT I.D. A-1-MW1-1	A-1-MW1-2	A-1-MW1-3	A-1-MW1-4
	ATI I.D. -001	-002	-003	-004
TOTAL DISSOLVED SOLIDS	352	376	380	380
SULFATE	42.1	59.6	46.4	44.8
NITRATE (AS NITROGEN)	4.1	4.0	4.3	4.3
BICARBONATE (AS CaCO3)	207	202	215	210
PHOSPHATE (AS PHOSPHORUS)	<0.05	<0.05	<0.05	<0.05
CHLORIDE	16.4	17.9	16.8	16.8
FLUORIDE	0.7	0.6	0.6	0.6
CALCIUM	69.9	74.7	72.6	73.7
MANGANESE	0.13	0.09	0.04	0.02
SODIUM	34.4	32.0	30.8	29.8
BROMIDE	<2 *	<2 *	<0.5	0.7
POTASSIUM	4.8	4.6	4.6	4.4
ELECTRICAL CONDUCTIVITY (umhos/cm)	558	570	557	562

PARAMETER	CLIENT I.D. A-1-MW1-5	A-1-MW1-6	A-1-MW1-7	A-1-MW1-8
	ATI I.D. -005	-006	-007	-008
TOTAL DISSOLVED SOLIDS	392	416	436	412
SULFATE	46.4	62.8	48.0	48.0
NITRATE (AS NITROGEN)	4.7	6.6	5.1	6.2
BICARBONATE (AS CaCO3)	235	235	220	213
PHOSPHATE (AS PHOSPHORUS)	<0.05	<0.05	<0.05	<0.05
CHLORIDE	17.9	19.9	18.2	19.2
FLUORIDE	0.6	0.6	0.6	0.6
CALCIUM	79.1	79.0	78.7	73.1
MANGANESE	0.03	0.02	0.01	0.08
SODIUM	31.9	32.3	31.9	31.0
BROMIDE	0.6	<0.5	0.6	<0.5
POTASSIUM	4.8	4.8	4.6	4.3
ELECTRICAL CONDUCTIVITY (umhos/cm)	610	599	603	562

* HIGHER DETECTION LIMIT DUE TO SAMPLE MATRIX INTERFERENCE.

ATI I.D.01503

CLIENT :GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022

QUALITY CONTROL

UNITS:mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
CYANIDE	2-3-87	01503-006	<0.01	<0.01	N/A
TOTAL PHENOLS	1-19-87	00802-007	<0.02	<0.02	N/A
TOTAL ORGANIC CARBON	2-4-87	01503-007	0.8	0.8	N/A
TOTAL DISSOLVED SOLIDS	1-27-87	01503-006	416	408	1.9
SULFATE	2-3-87	01503-004	44.8	44.8	0.0
NITRATE (AS NITROGEN)	2-3-87	01503-004	4.3	4.3	0.0
BICARBONATE (AS CaCO3)	1-29-87	01503-005	235	234	0.4
PHOSPHATE (AS PHOSPHORUS)	1-28-87	01503-004	<0.05	<0.05	N/A
CHLORIDE	2-3-87	01503-004	16.8	16.8	0.0
FLUORIDE	1-21-87	01201-003	0.9	0.9	0.0
CALCIUM	2-2-87	01503-007	78.7	78.9	-0.3
MANGANESE	2-2-87	01503-007	0.01	0.02	-66.7
SODIUM	1-27-87	01503-007	31.9	33.5	-4.9
BROMIDE	1-29-87	01503-007	0.6	0.6	0.0
POTASSIUM	2-2-87	01503-007	4.6	4.6	0.0
ELECTRICAL CONDUCTIVITY (umhos/cm)	1-27-87	01503-004	562	573	-1.9

UNITS:mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% RECOVERY
CYANIDE	01503-006	0.10	0.10	100
TOTAL PHENOLS	00802-007	0.10	0.10	100
TOTAL ORGANIC CARBON	01503-007	23.7	20	114
TOTAL DISSOLVED SOLIDS	01503-006	N/A	N/A	N/A
SULFATE	01503-004	87.2	40.0	106
NITRATE (AS NITROGEN)	01503-004	9.4	4.5	113
BICARBONATE (AS CaCO3)	01503-005	N/A	N/A	N/A
PHOSPHATE (AS PHOSPHORUS)	01503-004	1.00	1.00	100
CHLORIDE	01503-004	56.4	40.0	99
FLUORIDE	01201-003	6.0	5.0	102
CALCIUM	01503-007	174	100	95
MANGANESE	01503-007	[illegible].1	10.0	101
SODIUM	01503-007	286	250	101
BROMIDE	01503-007	1.7	1.0	92
POTASSIUM	01503-007	25.7	20.0	106
ELECTRICAL CONDUCTIVITY (umhos/cm)	01503-004	N/A	N/A	N/A

ATI I.D. 01503

PRIORITY POLLUTANT METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED: 1-13-87
SAMPLE MATRIX :WATER
UNITS : mg/L

PARAMETER	CLIENT I.D.	A-1-MW1-1	A-1-MW1-8
	ATI I.D.	-001	-008
ZINC		0.02	0.01
NICKEL		<0.01	<0.01
CHROMIUM		<0.01	<0.01
COPPER		<0.02	<0.02
SILVER		<0.05	<0.05
BERYLLIUM		<0.02	<0.02
ARSENIC		<0.002	<0.002
CADMIUM		0.0005	<0.0004
LEAD		<0.002	<0.002
ANTIMONY		<0.002	<0.002
SELENIUM		<0.002	<0.002
THALLIUM		<0.002	<0.002
MERCURY		<0.0005	<0.0005

ATI I.D. 01503

CALIFORNIA ADMINISTRATIVE CODE
METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-13-87
SAMPLE MATRIX :WATER
UNITS : mg/L

CLIENT I.D.	A-1-MW1-2	A-1-MW1-3	A-1-MW1-4	A-1-MW1-5	A-1-MW1-6	A-1-MW1-7
ATI I.D.	-002	-003	-004	-005	-006	-007
PARAMETER						
ZINC	<0.01	0.02	0.02	0.01	0.01	0.02
NICKEL	0.02	<0.01	0.01	<0.01	<0.01	<0.01
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SILVER	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MOLYBDENUM	0.03	<0.02	0.02	<0.02	<0.02	<0.02
COBALT	<0.02	<0.02	<0.02	<0.02	0.05	<0.02
VANADIUM	0.01	<0.01	<0.01	<0.01	0.01	0.01
BERYLLIUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
BARIUM	0.06	0.10	0.08	0.08	0.08	0.10
ARSENIC	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CADMIUM	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
LEAD	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
ANTIMONY	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
SELENIUM	0.002	<0.002	<0.002	<0.002	<0.002	<0.002
THALLIUM	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
MERCURY	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

CLIENT : GREGG & ASSOC. ATI I.D. 01503
PROJECT: LOCKHEED 86-106-022

METALS
QUALITY CONTROL

UNITS: mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
ZINC	2-2-87	01503-007	0.02	0.02	0.0
NICKEL	2-2-87	01503-007	0.03	<0.01	N/A
CHROMIUM	2-2-87	01503-007	<0.01	<0.01	N/A
COPPER	2-2-87	01503-007	<0.02	<0.02	N/A
SILVER	2-2-87	01503-007	<0.05	<0.05	N/A
MOLYBDENUM	2-2-87	01503-007	<0.02	<0.02	N/A
COBALT	2-2-87	01503-007	<0.02	<0.02	N/A
VANADIUM	2-2-87	01503-007	0.01	0.02	66.7
BERYLLIUM	2-2-87	01503-007	<0.02	<0.02	N/A
BARIUM	2-2-87	01503-007	0.10	0.10	0.0
ARSENIC	1-26-87	01503-008	<0.002	<0.002	N/A
CADMIUM	1-27-87	01503-001	0.0005	0.0005	0.0
LEAD	1-30-87	01503-002	<0.002	<0.002	N/A
ANTIMONY	1-28-87	01503-001	<0.002	<0.002	N/A
SELENIUM	1-19-87	01503-004	<0.002	<0.002	N/A
THALLIUM	1-27-87	01503-001	<0.002	<0.002	N/A
MERCURY	1-24-87	01503-006	<0.0005	<0.0005	N/A

UNITS: mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% REC.
ZINC	01503-007	5.7	5.0	114
NICKEL	01503-007	5.5	5.0	110
CHROMIUM	01503-007	5.6	5.0	112
COPPER	01503-007	5.5	5.0	110
SILVER	01503-007	4.3	5.0	86
MOLYBDENUM	01503-007	5.7	5.0	114
COBALT	01503-007	5.7	5.0	114
VANADIUM	01503-007	5.6	5.0	112
BERYLLIUM	01503-007	5.7	5.0	114
BARIUM	01503-007	5.8	5.0	114
ARSENIC	01503-008	0.046	0.050	92
CADMIUM	01503-001	0.0065	0.0060	92
LEAD	01503-002	0.046	0.05	92
ANTIMONY	01503-001	0.050	0.05	100
SELENIUM	01503-004	0.480	0.05	96
THALLIUM	01503-001	0.035	0.050	70
MERCURY	01503-006	0.0049	0.0050	98

ATI I.D. 01503-001

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW1-1
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-13-87
DATE RECEIVED :1-14-87
DATE ANALYZED:1-20-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	3
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	2
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	70
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	130
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	103 %
BFB	95 %
TOLUENE-D6	96 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01503-002

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW1-2
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-13-87
DATE RECEIVED :1-14-87
DATE ANALYZED:1-20-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	11
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	26
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	103 %
BFB	96 %
TOLUENE-D6	96 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01503-003

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW1-3
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-13-87
DATE RECEIVED :1-14-87
DATE ANALYZED:1-20-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	3
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	3
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	80
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	150
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	105 %
BFB	94 %
TOLUENE-D6	98 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01503-004

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW1-4
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-13-87
DATE RECEIVED :1-14-87
DATE ANALYZED:1-20-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	3
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	2
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	2
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	60
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	130
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	106 %
BFB	95 %
TOLUENE-D6	96 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01503-005

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW1-5
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-13-87
DATE RECEIVED :1-14-87
DATE ANALYZED:1-20-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	6
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	8
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	2
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	140
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	1
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	200
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	105 %
BFB	94 %
TOLUENE-D6	98 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01503-006

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW1-6
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-13-87
DATE RECEIVED :1-14-87
DATE ANALYZED:1-20-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	6
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	7
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	2
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	140
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	190
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	106 %
BFB	98 %
TOLUENE-D6	94 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01503-007

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW1-7
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-13-87
DATE RECEIVED :1-14-87
DATE ANALYZED:1-20-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	5
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	5
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	2
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	140
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	220
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	105 %
BFB	96 %
TOLUENE-D6	95 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01503-008

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW1-8
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-13-87
DATE RECEIVED :1-14-87
DATE ANALYZED:1-20-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	4
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	4
CHLOROFORM	1	2
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	2
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	90
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	170
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	108 %
BFB	94 %
TOLUENE-D6	98 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01503-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED :N/A
DATE ANALYZED:1-20-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	20
ACETONE	10	80
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	2
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	2
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	2
CIS-1,3-DICHLOROPROPENE	1	3
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	20
4-METHYL-2-PENTANONE (MIBK)	10	15
TETRACHLOROETHENE	1	3
TOLUENE	1	4
CHLOROBENZENE	1	U
ETHYL BENZENE	1	4
STYRENE	1	3
TOTAL XYLENES	1	6

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	97 %
BFB	88 %
TOLUENE-D6	100 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01503-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :A-1-MW1-1
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-13-87
DATE RECEIVED :1-14-87
DATE EXTRACTED:1-19-87
DATE ANALYZED:1-27-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 01503-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC.
SAMPLE I.D. :A-1-MW1-1

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	68 %
2-FLUOROBIPHENYL	68 %
TERPHENYL	30 %
PHENOL-D5	45 %
2-FLUOROPHENOL	72 %
2,4,6-TRIBROMOPHENOL	62 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01503-001

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:A-1-MW1-1
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:1-13-87
DATE RECEIVED : 1-14-87
DATE ANALYZED:1-27-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN HYDROCARBON	2162	20
UNKNOWN HYDROCARBON	2192	10

ATI I.D. 01503-001

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: A-1-MW1-1
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 1-13-87
DATE RECEIVED : 1-14-87
DATE EXTRACTED: 1-19-87
DATE ANALYZED: 1-27-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

ATI I.D. 01503-008

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :A-1-MW1-8
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-13-87
DATE RECEIVED :1-14-87
DATE EXTRACTED:1-19-87
DATE ANALYZED:1-27-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 01503-008

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC.
SAMPLE I.D. :A-1-MW1-8

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	74 %
2-FLUOROBIPHENYL	68 %
TERPHENYL	80 %
PHENOL-D5	45 %
2-FLUOROPHENOL	72 %
2,4,6-TRIBROMOPHENOL	62 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01503-008

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:A-1-MW1-8
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:1-13-87
DATE RECEIVED : 1-14-87
DATE ANALYZED:1-27-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN HYDROCARBON	2163	10

ATI I.D. 01503-008

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: A-1-MW1-8
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 1-13-87
DATE RECEIVED : 1-14-87
DATE EXTRACTED: 1-19-87
DATE ANALYZED: 1-27-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

ATI I.D. 01503-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :ATI REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-13-87
DATE RECEIVED :1-14-87
DATE EXTRACTED:1-19-87
DATE ANALYZED:1-27-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 01503-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC. PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. :ATI REAGENT BLANK UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	62 %
2-FLUOROBIPHENYL	62 %
TERPHENYL	80 %
PHENOL-D5	50 %
2-FLUOROPHENOL	68 %
2,4,6-TRIBROMOPHENOL	54 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01503-RB

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:ATI REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:N/A
DATE RECEIVED : N/A
DATE ANALYZED:1-27-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN HYDROCARBON	1908	60

ATI I.D. 01503-RB

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: ATI REAGENT BLANK
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: N/A
DATE RECEIVED : N/A
DATE EXTRACTED: 1-19-87
DATE ANALYZED: 1-27-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

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AnalyticalTechnologies, Inc.
San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

Chain of Custody Record

DATE 1/14/87 PAGE 1 OF 1

CLIENT GRETZ + ASSOC
ADDRESS 18351 BEACH BLVD
HUNTINGTON BCH, CA 92647
PROJECT CALAC BURBANK
SAMPLERS (SIGNATURE) Jeff Martin

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX EPA 415	EPA 625	T. Phenols EPA 420.1	NO3	T.CN EPA 335.3			NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
A-1-MW1-1	1/13/87		A-1-MW1		X	X			X	X		X		X	X	X	X			9	
A-1-MW1-2	"		"	X		X						X	X			X	X			8	
A-1-MW1-3	"		"	X		X						X	X			X	X			8	
A-1-MW1-4	"		"	X		X						X	X			X	X			8	
A-1-MW1-5	"		"	X		X						X	X			X	X			8	
A-1-MW1-6	"		"	X		X						X	X			X	X			8	
A-1-MW1-7	"		"	X		X						X	X			X	X			8	
A-1-MW1-8	"		"		X	X			X	X		X		X	X	X	X			9	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature: Jeff Martin	1/14/87	Signature: Ron Navarro	1/14/87	Signature:		Signature: George R. Haynes	1/14
Printed Name: JEFF MARTIN	TIME 8:00 AM	Printed Name: Ron Navarro	TIME 8:15 am	Printed Name:	TIME	Printed Name: George Haynes	TIME 8:10 pm
Company: GRETZ + ASSOC		Company: Redi-Express		Company:		Company: ATI	
RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature:		Signature:		Signature:		Signature: Marian VanDerhoef / HARIAN VanDerhoef	1/14/87 pm
Printed Name:	TIME	Printed Name:	TIME	Printed Name:	TIME	Printed Name: ATI	TIME
Company:		Company:		Company:		Analytical Technologies, Inc.	

66 TOTAL NUMBER OF CONTAINERS

METHOD OF SHIPMENT: REDI-EXPRESS

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

DISTRIBUTION: WHITE, CANARY - ANALYTICAL TECHNOLOGIES, INC. • PINK - ORIGINATOR

0834

RECEIVED FEB 2 6 1987

AnalyticalTechnologies, Inc.

Corporate Offices 5550 Morehouse Drive San Diego CA 92121 (619) 458-9111

REVISED LETTER
ATI I.D. 02901

February 24, 1987

Gregg & Associates
18351 Beach Blvd.
Huntington Beach, CA 92648

Project : LOCKHEED

Project No.: 86-106-022

Attention: Ferol Kimble

On January 28, 1986, Analytical Technologies, Inc. received nine (9) water samples for analysis. Nine (9) samples were analyzed for cyanide, total dissolved solids, sulfate, nitrate (as nitrogen), bicarbonate (as CaCO3), phosphate (as phosphorus), chloride, fluoride, calcium, manganese, sodium, bromide, potassium, electrical conductivity, and volatile organics. Seven (7) samples were analyzed for the California Administrative Code metals and total organic carbon. Two (2) samples were analyzed for the Priority Pollutant Metals, total phenols, and base/neutral and acid extractables including pesticides and polychlorinated biphenyls.

The manganese, calcium, sodium, and potassium were analyzed using atomic emission spectroscopy/inductively coupled argon plasma in accordance with EPA method 6010. The nitrate (as nitrogen), sulfate, and phosphate were done using autoanalyzer in accordance with EPA methods 353.1, 375.2, and 365.1. The chloride, and fluoride were analyzed in accordance with EPA methods 325.3 and 340.2. The electrical conductivity, total dissolved solids, and bicarbonate (as CaCO3) were analyzed in accordance with EPA methods 120.1, 160.1, and 310.1, respectively. The bromide was analyzed in accordance with EPA method 300.0.

The metals zinc, nickel, chromium, copper, silver, molybdenum, cobalt, vanadium, beryllium, and barium were analyzed using atomic emission spectroscopy by inductively coupled argon plasma in accordance with EPA method 6010. The metals arsenic, cadmium, lead, antimony, selenium, and thallium were analyzed using atomic absorption graphite furnace in accordance with EPA methods outlined in the 7000 series. The mercury was analyzed using cold vapor atomic absorption technique in accordance with EPA method 7471.

The cyanide, and total phenols were analyzed in accordance with EPA methods 335.3 and 420.2, respectively.

The TOC was analyzed using Xertex/Dohrmann DC-80 carbon analyzer in accordance with EPA method 415.2.

The base/neutral and acid extractables including pesticides and polychlorinated biphenyls were analyzed using gas chromatography/ mass spectroscopy in accordance with EPA method 625. The volatile organics were analyzed using gas chromatography/mass spectroscopy in accordance with EPA method 624. Sample results have been corrected for constituents found in the reagent blank.

The results of these analyses and the quality control data are enclosed.

Marcilen Lindsey
Marcilen Lindsey
Inorganics Supervisor

Richard M. Amano
Laboratory Manager

Note: The samples from this project will be disposed of 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.

Technologies,

ATI I.D. 02901

DATA SHEET

CLIENT :GREGG & ASSOCIATES
PROJECT:LOCKHEED 86-106-022
SAMPLE MATRIX:WATER

DATE SAMPLED:1-27-87
DATE RECEIVED:1-28-87
UNITS : mg/L

ATI SAMPLE I.D.	CLIENT SAMPLE I.D.	CYANIDE	TOTAL PHENOLS	TOTAL ORGANIC CARBON
-001	A-1-MW3-1	<0.01	<0.02	---
-002	A-1-MW3-9	<0.01	<0.02	---
-003	A-1-MW3-2	<0.01	---	<0.5
-004	A-1-MW3-3	<0.01	---	<0.5
-005	A-1-MW3-4	<0.01	---	0.8
-006	A-1-MW3-5	<0.01	---	0.5
-007	A-1-MW3-6	<0.01	---	<0.5
-008	A-1-MW3-7	<0.01	---	<0.5
-009	A-1-MW3-8	<0.01	---	<0.5

Technologies,

ATI I.D. 02901

GENERAL MINERALS

CLIENT : GREGG & ASSOCIATES
PROJECT : LOCKHEED 86-106-022

DATE RECEIVED : 1-28-87
SAMPLE MATRIX : WATER
UNITS : mg/L

PARAMETER	CLIENT I.D. A-1-MW3 -1	A-1-MW3 -9	A-1-MW3 -2	A-1-MW3 -3	A-1-MW3 -4
	ATI I.D. -001	-002	-003	-004	-005
TOTAL DISSOLVED SOLIDS	368	388	424	380	364
SULFATE	60	60	68	54	60
NITRATE (AS NITROGEN)	4.0	5.1	6.0	4.3	4.9
BICARBONATE (AS CaCO3)	190	217	214	221	216
PHOSPHATE (AS PHOSPHORUS)	0.07	<0.02	0.07	<0.02	0.07
CHLORIDE	23.8	23.8	25.5	23.8	25.5
FLUORIDE	0.5	<0.5	0.5	0.5	0.5
CALCIUM	67.2	76.8	78.8	75.0	76.2
MANGANESE	0.03	0.02	0.01	0.02	0.02
SODIUM	32.7	31.9	32.1	31.4	32.0
POTASSIUM	4.0	4.3	4.1	4.3	4.3
BROMIDE	<0.5	<0.5	<0.5	<0.5	<0.5
ELECTRICAL CONDUCTIVITY (umhos/cm)	539	582	591	569	572

PARAMETER	CLIENT I.D. A-1-MW3 -5	A-1-MW3 -6	A-1-MW3 -7	A-1-MW3 -8
	ATI I.D. -006	-007	-008	-009
TOTAL DISSOLVED SOLIDS	388	396	420	396
SULFATE	54	60	60	60
NITRATE (AS NITROGEN)	11.9	5.8	5.0	5.3
BICARBONATE (AS CaCO3)	220	211	212	218
PHOSPHATE (AS PHOSPHORUS)	<0.02	<0.02	<0.02	<0.02
CHLORIDE	23.8	23.8	23.8	23.8
FLUORIDE	0.5	0.5	0.5	0.5
CALCIUM	76.2	75.1	76.0	76.0
MANGANESE	0.04	0.02	0.01	0.01
SODIUM	32.5	31.8	32.2	33.0
POTASSIUM	4.3	4.3	4.3	4.3
BROMIDE	<0.5	<0.5	<0.5	<0.5
ELECTRICAL CONDUCTIVITY (umhos/cm)	571	572	572	571

Technologies,

ATI I.D.02901

:LIENT :GREGG & ASSOC.
'ROJECT: LOCKHEED 86-106-022

QUALITY CONTROL

UNITS:mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
:YANIDE	2-3-87	02208-007	<0.01	<0.01	N/A
:OTAL PHENOLS	2-20-87	02208-003	<0.02	<0.02	N/A
:OTAL ORGANIC CARBON	2-10-87	02901-005	0.78	0.54	36.4
:OTAL DISSOLVED SOLIDS	2-10-87	02901-004	380	376	1.1
;ULFATE	2-18-87	02901-009	60	60	0.0
;ITRATE (AS NITROGEN)	2-9-87	02901-007	5.8	5.6	3.5
3ICARBONATE (AS CaCO3)	2-18-87	02308-009	157	157	0.0
'HOSPHATE (AS PHOSPHORUS)	2-21-87	02901-009	<0.02	<0.02	N/A
:HLORIDE	2-12-87	02901-004	23.8	23.8	0.0
'LUORIDE	2-13-87	02901-002	<0.5	<0.5	N/A
:ALCIUM	2-2-87	02901-001	67.2	66.0	1.8
IANGANESE	2-2-87	02604-003	0.01	0.02	-66.7
;ODIUM	2-5-87	02901-001	32.7	34.7	-5.9
'OTASSIUM	2-2-87	02604-009	4.3	4.5	-4.5
3ROMIDE	2-21-87	02901-009	<0.5	<0.5	N/A
TRICAL :ONDUCTIVITY (umhos/cm)	2-11-87	02901-003	591	591	0.0

UNITS:mg/L

'ARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% RECOVERY
:YANIDE	02208-007	0.10	0.10	100
:OTAL PHENOLS	02208-003	0.12	0.10	120
:OTAL ORGANIC CARBON	02901-005	22.9	20.0	115
:OTAL DISSOLVED SOLIDS	02901-004	N/A	N/A	N/A
;ULFATE	02901-009	220	160	100
;ITRATE (AS NITROGEN)	02901-007	44.0	40.0	96
3ICARBONATE (AS CaCO3)	02308-009	N/A	N/A	N/A
'HOSPHATE (AS PHOSPHORUS)	02901-009	1.00	1.00	100
:HLORIDE	02901-004	354	320	103
'LUORIDE	02901-002	3.9	5.0	78
:ALCIUM	02901-001	167	100	100
IANGANESE	02604-003	9.98	10.0	99
;ODIUM	02901-001	291	250	103
'OTASSIUM	02604-009	25.2	20.0	104
3R IDE	02901-009	4.9	5.0	98
TRICAL :ONDUCTIVITY (umhos/cm)	02901-003	N/A	N/A	N/A

Technologies

ATI I.D. 02901

PRIORITY POLLUTANT METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED: 1-28-87
SAMPLE MATRIX :WATER
UNITS : mg/L

PARAMETER	CLIENT I.D.	A-1-MW3-1	A-1-MW3-9
	ATI I.D.	-001	-002
ZINC		<0.01	<0.01
NICKEL		<0.01	<0.01
CHROMIUM		<0.01	<0.01
COPPER		<0.02	<0.02
SILVER		<0.05	<0.05
BERYLLIUM		<0.02	<0.02
ARSENIC		<0.002	<0.002
CADMIUM		<0.0004	<0.0004
LEAD		<0.002	<0.002
ANTIMONY		<0.002	<0.002
SELENIUM		<0.002	<0.002
THALLIUM		<0.004	<0.004
MERCURY		<0.0005	<0.0005

Technologies,

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ATI I.D. 02901

CALIFORNIA ADMINISTRATIVE CODE
METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-28-87
SAMPLE MATRIX :WATER
UNITS : mg/L

CLIENT I.D.	A-1-MW3 -2	A-1-MW3 -3	A-1-MW3 -4	A-1-MW3 -5
PARAMETER				
ATI I.D.	-003	-004	-005	-006
ZINC	0.01	<0.01	<0.01	<0.01
NICKEL	<0.01	0.08	<0.01	0.02
CHROMIUM	<0.01	<0.01	<0.01	<0.01
COPPER	<0.02	<0.02	<0.02	<0.02
SILVER	<0.05	<0.05	<0.05	<0.05
MOLYBDENUM	<0.02	<0.02	<0.02	<0.02
COBALT	<0.02	<0.02	<0.02	<0.02
VANADIUM	0.02	0.01	0.02	0.01
BERYLLIUM	<0.02	<0.02	<0.02	<0.02
BARIUM	0.06	0.09	0.10	0.09
ARSENIC	<0.002	<0.002	<0.002	<0.002
CADMIUM	<0.0004	<0.0004	<0.0004	<0.0004
LEAD	0.002	<0.002	<0.002	<0.002
ANTIMONY	<0.002	<0.002	<0.002	<0.002
SELENIUM	<0.002	<0.002	<0.002	<0.002
THALLIUM	<0.004	<0.004	<0.004	<0.004
MERCURY	<0.0005	<0.0005	<0.0005	<0.0005

Technologies

ATI I.D. 02901

CALIFORNIA ADMINISTRATIVE CODE
METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-28-87
SAMPLE MATRIX :WATER
UNITS : mg/L

CLIENT I.D.	A-1-MW3 -6	A-1-MW3 -7	A-1-MW3 -8
PARAMETER			
ATI I.D.	-007	-008	-009
ZINC	<0.01	<0.01	<0.01
NICKEL	<0.01	0.03	0.01
CHROMIUM	<0.01	<0.01	<0.01
COPPER	<0.02	<0.02	<0.02
SILVER	<0.05	<0.05	<0.05
MOLYBDENUM	<0.02	<0.02	<0.02
COBALT	<0.02	<0.02	<0.02
VANADIUM	0.02	0.01	0.02
BERYLLIUM	<0.02	<0.02	<0.02
BARIUM	0.09	0.09	0.09
ARSENIC	<0.002	<0.002	<0.002
CADMIUM	<0.0004	<0.0004	<0.0004
LEAD	<0.002	<0.002	<0.002
ANTIMONY	<0.002	<0.002	<0.002
SELENIUM	<0.002	<0.002	<0.002
THALLIUM	<0.004	<0.004	<0.004
MERCURY	<0.0005	<0.0005	<0.0005

Technologies

ENT : GREGG & ASSOC. ATI I.D. 02901
OJECT:LOCKHEED 86-106-022

METALS
QUALITY CONTROL

UNITS:mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
INC	2-2-87	02604-003	<0.01	<0.01	N/A
ICKEL	2-2-87	02604-003	0.01	<0.01	N/A
HROMIUM	2-2-87	02604-003	<0.01	<0.01	N/A
OPPER	2-2-87	02604-003	<0.02	<0.02	N/A
ILVER	2-2-87	02604-003	<0.05	<0.05	N/A
OLYBDENUM	2-2-87	02604-003	<0.02	<0.02	N/A
OBALT	2-2-87	02604-003	<0.02	<0.02	N/A
ANADIUM	2-2-87	02604-003	<0.01	<0.01	N/A
ERYLLIUM	2-2-87	02604-003	<0.02	<0.02	N/A
ARIUM	2-2-87	02604-003	0.07	0.07	0.0
RSENIC	2-5-87	02901-008	<0.002	<0.002	N/A
ADMIUM	2-6-87	02901-002	<0.0004	<0.0004	N/A
EAD	1-30-87	02901-001	<0.002	<0.002	N/A
MONY	2-9-87	02901-003	<0.002	<0.002	N/A
NIUM	2-6-87	02901-002	<0.002	0.002	N/A
LLIUM	2-9-87	02901-003	<0.002	<0.002	N/A
ERCURY	2-2-87	02901-004	<0.0005	<0.0005	N/A

UNITS:mg/L

ARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% REC.
INC	02604-003	5.11	5.0	102
ICKEL	02604-003	4.76	5.0	95
HROMIUM	02604-003	5.03	5.0	100
OPPER	02604-003	4.68	5.0	94
ILVER	02604-003	4.18	5.0	84
OLYBDENUM	02604-003	5.11	5.0	102
OBALT	02604-003	5.05	5.0	101
ANADIUM	02604-003	4.87	5.0	97
ERYLLIUM	02604-003	5.09	5.0	102
ARIUM	02604-003	5.08	5.0	100
RSENIC	02901-008	0.058	0.050	116
ADMIUM	02901-002	0.0054	0.0060	90
EAD	02901-001	0.046	0.05	92
MONY	02901-003	0.058	0.05	116
NIUM	02901-002	0.044	0.05	86
LIUM	02901-003	0.410	0.05	82
URY	02901-004	0.0053	0.0050	106

Technologies,

ATI I.D. 02901-001

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW3-1
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-27-87
DATE RECEIVED :1-28-87
DATE ANALYZED:2-5-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	2
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	8
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	100 %
BFB	97 %
TOLUENE-D6	104 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies.

ATI I.D. 02901-002

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW3-9
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-27-87
DATE RECEIVED :1-28-87
DATE ANALYZED:2-5-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	2
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	170
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	250
TOLUENE	1	4
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	102 %
BFB	92 %
TOLUENE-D6	105 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 02901-003

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW3-2
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-27-87
DATE RECEIVED :1-28-87
DATE ANALYZED:2-5-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	4
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	11
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	104 %
BFB	94 %
TOLUENE-D6	106 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 02901-004

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW3-3
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-27-87
DATE RECEIVED :1-28-87
DATE ANALYZED:2-5-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	3
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	1
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	86
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	230
TOLUENE	1	5
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	104 %
BFB	93 %
TOLUENE-D6	112 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 02901-005

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW3-4
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-27-87
DATE RECEIVED :1-28-87
DATE ANALYZED:2-5-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	2
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	47
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	140
TOLUENE	1	3
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	102 %
BFB	96 %
TOLUENE-D6	111 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 02901-006

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW3-5
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-27-87
DATE RECEIVED :1-28-87
DATE ANALYZED:2-11-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	9
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	5
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	1
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	260
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	370
TOLUENE	1	4
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	98 %
BFB	105 %
TOLUENE-D6	100 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 02901-007

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW3-6
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-27-87
DATE RECEIVED :1-28-87
DATE ANALYZED:2-10-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	12
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	2
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	170
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	3
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	360
TOLUENE	1	8
CHLOROBENZENE	1	3
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	80 %
BFB	93 %
TOLUENE-D6	93 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 02901-008

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW3-7
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-27-87
DATE RECEIVED :1-28-87
DATE ANALYZED:2-10-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	4
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	4
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	160
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	270
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	91 %
BFB	102 %
TOLUENE-D6	96 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 02901-008

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:A-1-MW3-7
SAMPLE MATRIX :WATER
UNITS: ug/L

DATE SAMPLED:1-27-87
DATE RECEIVED : 1-28-87
DATE ANALYZED:2-10-87
METHOD : EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
ALKANE	314	4

Technologies,

ATI I.D. 02901-009

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW3-8
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-27-87
DATE RECEIVED :1-28-87
DATE ANALYZED:2-10-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	22
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	3
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	4
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	180
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	280
TOLUENE	1	7
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	83 %
BFB	104 %
TOLUENE-D6	94 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 02901-009

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:A-1-MW3-8
SAMPLE MATRIX :WATER
UNITS: ug/L

DATE SAMPLED:1-27-87
DATE RECEIVED : 1-28-87
DATE ANALYZED:2-10-87
METHOD : EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
ALKANE	347	4

Technologies,

ATI I.D. 02901-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED :N/A
DATE RECEIVED :N/A
DATE ANALYZED:2-4-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	5
ACETONE	10	TR
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	2
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	98 %
BFB	100 %
TOLUENE-D6	97 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 02901-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED :N/A
DATE RECEIVED :N/A
DATE ANALYZED:2-10-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	4
ACETONE	10	12
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	2
STYRENE	1	2
TOTAL XYLENES	1	2

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	70 %
BFB	93 %
TOLUENE-D6	90 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 02901-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED :N/A
DATE RECEIVED :N/A
DATE ANALYZED:2-11-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	6
ACETONE	10	TR
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	1
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	TR
4-METHYL-2-PENTANONE (MIBK)	10	TR
TETRACHLOROETHENE	1	U
TOLUENE	1	2
CHLOROBENZENE	1	U
ETHYL BENZENE	1	1
STYRENE	1	U
TOTAL XYLENES	1	2

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	95 %
BFB	102 %
TOLUENE-D6	101 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 02901-RB

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS: ug/L

DATE SAMPLED:N/A
DATE RECEIVED : N/A
DATE ANALYZED:2-11-87
METHOD : EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN	452	2

Technologies,

ATI I.D. 02901-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :A-1-MW3-1
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-21-87
DATE RECEIVED :1-28-87
DATE EXTRACTED:1-30-87
DATE ANALYZED:2-3-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

Technologies,

ATI I.D. 02901-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC.
SAMPLE I.D. :A-1-MW3-1

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	83 %
2-FLUOROBIPHENYL	76 %
TERPHENYL	84 %
PHENOL-D5	54 %
2-FLUOROPHENOL	78 %
2,4,6-TRIBROMOPHENOL	86 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies

ATI I.D. 02901-001

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: A-1-MW3-1
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 1-27-87
DATE RECEIVED : 1-28-87
DATE EXTRACTED: 1-30-87
DATE ANALYZED: 2-3-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

Technologies,

ATI I.D. 02901-002

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :A-1-MW3-9
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-21-87
DATE RECEIVED :1-28-87
DATE EXTRACTED:1-30-87
DATE ANALYZED:2-3-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

Technologies

ATI I.D. 02901-002

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC.
SAMPLE I.D. :A-1-MW3-9

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	84 %
2-FLUOROBIPHENYL	76 %
TERPHENYL	89 %
PHENOL-D5	51 %
2-FLUOROPHENOL	74 %
2,4,6-TRIBROMOPHENOL	53 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies.

ATI I.D. 02901-002

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:A-1-MW3-9
SAMPLE MATRIX :WATER
UNITS: ug/L

DATE SAMPLED:1-27-86
DATE RECEIVED : 1-28-87
DATE ANALYZED:2-3-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN	1905	3
UNKNOWN	2162	10
UNKNOWN	432	4

Technolab

ATI I.D. 02901-002

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: A-1-MW3-9
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 1-27-87
DATE RECEIVED : 1-28-87
DATE EXTRACTED: 1-30-87
DATE ANALYZED: 2-3-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

ATI I.D. 02901-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :ATI REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :N/A
DATE RECEIVED :N/A
DATE EXTRACTED:1-30-87
DATE ANALYZED:2-3-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

Technologies

ATI I.D. 02901-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC. PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. :ATI REAGENT BLANK UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	81 %
2-FLUOROBIPHENYL	79 %
TERPHENYL	88 %
PHENOL-D5	46 %
2-FLUOROPHENOL	75 %
2,4,6-TRIBROMOPHENOL	47 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 02901-RB

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS: ug/L

DATE SAMPLED:N/A
DATE RECEIVED : N/A
DATE ANALYZED:2-3-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN HYDROCARBON	1314	5
UNKNOWN	1331	2
UNKNOWN	1906	7
UNKNOWN	2161	10

Technologies

ATI I.D. 02901-RB

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: ATI REAGENT BLANK
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: N/A
DATE RECEIVED : N/A
DATE EXTRACTED: 1-30-87
DATE ANALYZED: 2-3-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

0834

02901

Chain of Custody Record

AnalyticalTechnologies, Inc.
San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

DATE 1/28/87 PAGE 1 OF 1

CLIENT Golder + Assoc
ADDRESS [illegible] Street Suite
[illegible] CA
92677
PROJECT [illegible] 86-106-022
SAMPLERS (SIGNATURE) [illegible]

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	(TOC) TOX EPA 415.1	EPA 625	EPA T. Phenols 420.1	NO3	EPA 335.3 T. CN			NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
A-1-MW3-1	1/27/87		A-1-MW3		X	X			X	X		X		X	X	X	X			9	
A-1-MW3-2	"		"	X		X						X	X			X	X			8	
A-1-MW3-3	"		"	X		X						X	X			X	X			8	
A-1-MW3-4	"		"	X		X						X	X			X	X			8	
A-1-MW3-5	"		"	X		X						X	X			X	X			8	
A-1-MW3-6	"		"	X		X						X	X			X	X			8	
A-1-MW3-7	"		"	X		X						X	X			X	X			8	
A-1-MW3-8	"		"	X		X						X	X			X	X			8	
A-1-MW3-9	"		"		X	X			X	X		X		X	X	X	X			9	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
[illegible]	1/28/87	[illegible]	[illegible]				
Signature [illegible]	TIME	Signature [illegible]	TIME	Signature	TIME	Signature	TIME
Printed Name Golder + Assoc	9:00 AM	Printed Name [illegible]		Printed Name		Printed Name	
Company		Company		Company		Company	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature	TIME	Signature	TIME	Signature	TIME	Signature	TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Company		Company		Company		Analytical Technologies, Inc.	

74 TOTAL NUMBER OF CONTAINERS

METHOD OF SHIPMENT Federal Express

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

DISTRIBUTION: WHITE, CANARY [illegible]TICAL TECHNOLOGIES, INC. • PINK - ORIGINATOR

AnalyticalTechnologies, Inc.

Corporate Offices 5550 Morehouse Drive

ATI I.D. 02308

RECEIVED FEB 19 1987

February 18, 1987

Gregg & Associates
18351 Beach Blvd.
Huntington Beach, CA 92648

Project : LOCKHEED

Project No.: 86-106-022

Attention: Ferol Kimble

On January 22, 1986, Analytical Technologies, Inc. received nine (9) water samples for analysis. Nine (9) samples were analyzed for cyanide, total dissolved solids, sulfate, nitrate (as nitrogen), bicarbonate (as CaCO3), phosphate (as phosphorus), chloride, fluoride, calcium, manganese, sodium, bromide, potassium, electrical conductivity, and volatile organics. Eight (8) samples were analyzed for the California Administrative Code metals and total organic carbon. One (1) sample was analyzed for the Priority Pollutant Metals, total phenols, and base/neutral and acid extractables including pesticides and polychlorinated biphenyls.

The manganese, calcium, sodium, and potassium were analyzed using atomic emission spectroscopy/inductively coupled argon plasma in accordance with EPA method 6010. The phosphate (as phosphorus) was done using autoanalyzer in accordance with EPA method 365.1. The nitrate (as nitrogen) sulfate, and chloride were analyzed by ion chromatography according to EPA methods 300.0. The fluoride was analyzed in accordance with EPA method 340.2. The bromide was analyzed by Standard Method 405. The electrical conductivity, total dissolved solids, and bicarbonate (as CaCO3) were analyzed in accordance with EPA methods 120.1, 160.1, and 310.1, respectively.

The metals zinc, nickel, chromium, copper, silver, molybdenum, cobalt, vanadium, beryllium, and barium were analyzed using atomic emission spectroscopy by inductively coupled argon plasma in accordance with EPA method 6010. The metals arsenic, cadmium, lead, antimony, selenium, and thallium were analyzed using atomic absorption graphite furnace in accordance with EPA methods outlined in the 7000 series. The mercury was analyzed using cold vapor atomic absorption technique in accordance with EPA method 7471.

The cyanide, and total phenols were analyzed in accordance with EPA methods 335.3 and 420.2, respectively.

The TOC was analyzed using Xertex/Dohrmann DC-80 carbon analyzer in accordance with EPA method 415.2.

The base/neutral and acid extractables including pesticides and polychlorinated biphenyls were analyzed using gas chromatography/ mass spectroscopy in accordance with EPA method 625. The volatile organics were analyzed using gas chromatography/mass spectroscopy in accordance with EPA method 624. Sample results have been corrected for constituents found in the reagent blank.

The results of these analyses and the quality control data are enclosed.

Marcilen Lindsey
Inorganics Supervisor

Richard M. Amano
Laboratory Manager

Note: The samples from this project will be disposed of 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.

ATI I.D. 02308

DATA SHEET

CLIENT :GREGG & ASSOCIATES
PROJECT:LOCKHEED 86-106-022
SAMPLE MATRIX:WATER

DATE SAMPLED:1-21-87
DATE RECEIVED:1-22-87
UNITS : mg/L

ATI SAMPLE I.D.	CLIENT SAMPLE I.D.	CYANIDE	TOTAL PHENOLS	TOTAL ORGANIC CARBON
-001	A-1-MW4-1	<0.01	<0.02	---
-002	A-1-MW4-3	<0.01	---	0.5
-003	A-1-MW4-4	<0.01	---	<0.5
-004	A-1-MW4-5	<0.01	---	1.8
-005	A-1-MW4-6	<0.01	---	<0.5
-006	A-1-MW4-7	<0.01	---	<0.5
-007	A-1-MW4-8	<0.01	---	<0.5
-008	A-1-MW4-10	<0.01	---	<0.5
-009	A-1-MW4-11	<0.01	---	<0.5

ATI I.D. 02308

GENERAL MINERALS

CLIENT : GREGG & ASSOCIATES
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-22-87
SAMPLE MATRIX : WATER
UNITS : mg/L

PARAMETER	CLIENT I.D.	A-1-MW4-1	A-1-MW4-3	A-1-MW4-4	A-1-MW4-5	A-1-MW4-6
	ATI I.D.	-001	-002	-003	-004	-005
TOTAL DISSOLVED SOLIDS		652	432	552	376	328
SULFATE		64.0	48.0	39.4	32.9	50.2
NITRATE (AS NITROGEN)		<0.1	<0.1	<0.1	<0.1	<0.1
BICARBONATE (AS CaCO3)		107	146	129	175	181
PHOSPHATE (AS PHOSPHORUS)		<0.02	<0.02	<0.02	<0.02	<0.02
CHLORIDE		246	89.2	199	49.2	14.3
FLUORIDE		<0.5	0.5	<0.5	0.5	0.7
CALCIUM		52.0	50.8	47.4	38.8	61.1
MANGANESE		0.08	0.06	0.15	0.05	0.02
SODIUM		162	87.9	143	78.8	32.8
BROMIDE		<2.0 *	<2.0 *	<2.0 *	<2.0 *	<0.5
POTASSIUM		3.3	3.2	3.4	3.1	3.4
ELECTRICAL CONDUCTIVITY (umhos/cm)		1040	666	936	559	470

PARAMETER	CLIENT I.D.	A-1-MW4-7	A-1-MW4-8	A-1-MW4-10	A-1-MW4-11
	ATI I.D.	-006	-007	-008	-009
TOTAL DISSOLVED SOLIDS		344	392	444	420
SULFATE		48.6	48.6	51.8	50.2
NITRATE (AS NITROGEN)		<0.1	<0.1	<0.1	<0.1
BICARBONATE (AS CaCO3)		174	159	154	157
PHOSPHATE (AS PHOSPHORUS)		<0.02	<0.02	<0.02	<0.02
CHLORIDE		28.8	90.5	72.9	75.5
FLUORIDE		0.6	0.6	0.6	0.6
CALCIUM		53.0	58.7	56.2	56.4
MANGANESE		0.07	0.04	0.08	0.15
SODIUM		52.4	80.0	77.3	78.7
BROMIDE		<0.5	0.7	0.6	0.6
POTASSIUM		3.2	3.4	3.4	3.5
ELECTRICAL CONDUCTIVITY (umhos/cm)		517	679	633	650

* HIGHER DETECTION LIMIT DUE TO SAMPLE MATRIX INTERFERENCE.

ATI I.D.02308

CLIENT :GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022

QUALITY CONTROL

UNITS:mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
CYANIDE	2-3-87	02308-009	<0.01	<0.01	N/A
TOTAL PHENOLS	2-18-87	02308-001	<0.02	<0.02	N/A
TOTAL ORGANIC CARBON	2-10-87	02308-003	<0.5	<0.5	N/A
TOTAL DISSOLVED SOLIDS	2-5-87	02308-008	444	396	11.4
SULFATE	2-3-87	01503-004	44.8	44.8	0.0
NITRATE (AS NITROGEN)	2-3-87	01503-004	4.3	4.3	0.0
BICARBONATE (AS CaCO3)	2-17-87	02308-009	157	157	0.0
PHOSPHATE (AS PHOSPHORUS)	1-28-87	02308-006	<0.02	<0.02	N/A
CHLORIDE	2-3-87	01503-004	16.8	16.8	0.0
FLUORIDE	2-4-87	09269-001	2.1	2.1	0.0
CALCIUM	2-2-87	02308-005	61.1	61.4	-0.5
MANGANESE	2-2-87	02308-005	0.02	0.02	0.0
SODIUM	1-30-87	02308-005	32.8	32.8	0.0
BROMIDE	2-2-87	02308-007	0.7	0.8	-13.3
POTASSIUM	2-2-87	02308-005	3.4	3.4	0.0
ELECTRICAL CONDUCTIVITY (umhos/cm)	2-10-87	02308-003	936	933	0.3

UNITS:mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% RECOVERY
CYANIDE	02308-009	0.10	0.10	100
TOTAL PHENOLS	02308-001	0.17	0.16	100
TOTAL ORGANIC CARBON	02308-003	23.2	20.0	116
TOTAL DISSOLVED SOLIDS	N/A	N/A	N/A	N/A
SULFATE	01503-004	87.2	40.0	106
NITRATE (AS NITROGEN)	01503-004	9.4	4.50	113
BICARBONATE (AS CaCO3)	02308-009	N/A	N/A	N/A
PHOSPHATE (AS PHOSPHORUS)	02308-006	0.96	1.00	96
CHLORIDE	01503-004	56.4	40.0	99
FLUORIDE	09269-001	2.6	0.5	100
CALCIUM	02308-005	162	100	101
MANGANESE	02308-005	9.83	10.0	98
SODIUM	02308-005	269	250	94
BROMIDE	02308-007	1.7	1.0	96
POTASSIUM	02308-005	24.6	20.0	106
ELECTRICAL CONDUCTIVITY (umhos/cm)	02308-003	N/A	N/A	N/A

ATI I.D. 02308

PRIORITY POLLUTANT
METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED: 1-22-87
SAMPLE MATRIX :WATER
UNITS : mg/L

PARAMETER	CLIENT I.D. A-1-MW4-1
ATI I.D.	-001
ZINC	0.01
NICKEL	<0.01
CHROMIUM	<0.01
COPPER	<0.02
SILVER	<0.05
BERYLLIUM	<0.02
ARSENIC	<0.002
CADMIUM	<0.0004
LEAD	<0.002
ANTIMONY	<0.002
SELENIUM	<0.002
THALLIUM *	<0.008
MERCURY	<0.0005

* DILUTION NECESSARY DUE TO SAMPLE MATRIX.

ATI I.D. 02308

CALIFORNIA ADMINISTRATIVE CODE
METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-22-87
SAMPLE MATRIX :WATER
UNITS : mg/L

CLIENT I.D.	A-1-MW4-3	A-1-MW4-4	A-1-MW4-5	A-1-MW4-6	A-1-MW4-7
PARAMETER					
ATI I.D.	-002	-003	-004	-005	-006
ZINC	0.01	<0.01	<0.01	0.02	0.01
NICKEL	0.02	0.01	<0.01	0.02	0.03
CHROMIUM	0.01	0.01	0.01	<0.01	<0.01
COPPER	<0.02	<0.02	<0.02	<0.02	<0.02
SILVER	<0.05	<0.05	<0.05	<0.05	<0.05
MOLYBDENUM	<0.02	<0.02	<0.02	<0.02	<0.02
COBALT	<0.02	<0.02	<0.02	<0.02	<0.02
VANADIUM	0.02	0.01	0.02	<0.01	0.01
BERYLLIUM	<0.02	<0.02	<0.02	<0.02	<0.02
BARIUM	0.06	0.06	0.05	0.06	0.05
ARSENIC	<0.002	<0.002	<0.002	<0.002	<0.002
CADMIUM	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
LEAD	<0.002	<0.002	<0.002	<0.002	<0.002
ANTIMONY	<0.002	<0.002	<0.002	<0.002	<0.002
SELENIUM	<0.002	<0.002	<0.002	<0.002	<0.002
THALLIUM *	<0.008	<0.008	<0.008	<0.008	<0.008
MERCURY	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

* DILUTION NECESSARY DUE TO SAMPLE MATRIX.

ATI I.D. 02308

CALIFORNIA ADMINISTRATIVE CODE
METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-22-87
SAMPLE MATRIX :WATER
UNITS : mg/L

CLIENT I.D.	A-1-MW4-8	A-1-MW4-10	A-1-MW4-11
PARAMETER			
ATI I.D.	-007	-008	-009
ZINC	0.02	0.01	0.01
NICKEL	0.02	0.01	<0.01
CHROMIUM	<0.01	<0.01	<0.01
COPPER	<0.02	<0.02	<0.02
SILVER	<0.05	<0.05	<0.05
MOLYBDENUM	<0.02	<0.02	<0.02
COBALT	<0.02	<0.02	<0.02
VANADIUM	0.02	0.02	<0.01
BERYLLIUM	<0.02	<0.02	<0.02
BARIUM	0.07	0.06	0.06
ARSENIC	<0.002	<0.002	<0.002
CADMIUM	<0.0004	<0.0004	<0.0004
LEAD	<0.002	<0.002	<0.002
ANTIMONY	<0.002	<0.002	<0.002
SELENIUM	<0.002	<0.002	<0.002
THALLIUM *	<0.008	<0.008	<0.008
MERCURY	<0.0005	<0.0005	<0.0005

* DILUTION NECESSARY DUE TO SAMPLE MATRIX.

ENT : GREGG & ASSOC. ATI I.D. 02308
OJECT:LOCKHEED 86-106-022

METALS
QUALITY CONTROL

UNITS:mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
ZINC	2-2-87	02308-005	0.02	0.02	0.0
NICKEL	2-2-87	02308-005	0.02	0.01	66.7
CHROMIUM	2-2-87	02308-005	<0.01	<0.01	N/A
COPPER	2-2-87	02308-005	<0.02	<0.02	N/A
SILVER	2-2-87	02308-005	<0.05	<0.05	N/A
MOLYBDENUM	2-2-87	02308-005	<0.02	<0.02	N/A
COBALT	2-2-87	02308-005	<0.02	<0.02	N/A
VANADIUM	2-2-87	02308-005	<0.01	0.01	N/A
BERYLLIUM	2-2-87	02308-005	<0.02	<0.02	N/A
BARIUM	2-2-87	02308-005	0.06	0.06	0.0
ARSENIC	2-5-87	02308-001	<0.002	<0.002	N/A
CADMIUM	1-29-87	02308-001	<0.0004	<0.0004	N/A
LEAD	1-28-87	02308-001	<0.002	<0.002	N/A
ANTIMONY	1-28-87	02209-001	<0.002	<0.002	N/A
SELENIUM	1-29-87	02308-001	<0.002	<0.002	N/A
THALLIUM *	1-27-87	02308-001	<0.008	<0.008	N/A
MERCURY	2-2-87	02308-004	<0.0005	<0.0005	N/A

UNITS:mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% REC.
ZINC	02308-005	5.22	5.0	104
NICKEL	02308-005	4.92	5.0	98
CHROMIUM	02308-005	5.11	5.0	102
COPPER	02308-005	4.93	5.0	99
SILVER	02308-005	4.40	5.0	88
MOLYBDENUM	02308-005	5.21	5.0	104
COBALT	02308-005	5.09	5.0	102
VANADIUM	02308-005	5.04	5.0	101
BERYLLIUM	02308-005	5.18	5.0	104
BARIUM	02308-005	5.19	5.0	103
ARSENIC	02308-001	0.052	0.050	104
CADMIUM	02308-001	0.0069	0.0060	115
LEAD	02308-001	0.054	0.05	108
ANTIMONY	02209-001	0.050	0.05	100
SELENIUM	02308-001	0.520	0.05	104
THALLIUM	02308-001	0.15	0.20	75
MERCURY	02308-004	0.0048	0.0050	96

* DILUTION NECESSARY DUE TO SAMPLE MATRIX.

ATI I.D. 02308-001

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-1
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-21-87
DATE RECEIVED :1-22-87
DATE ANALYZED:1-29-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	99 %
BFB	101 %
TOLUENE-D6	96 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-002

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-3
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-21-87
DATE RECEIVED :1-22-87
DATE ANALYZED:1-29-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	2
TOLUENE	1	4
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	101 %
BFB	100 %
TOLUENE-D6	97 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-003

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-4
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-21-87
DATE RECEIVED :1-22-87
DATE ANALYZED:1-29-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	TR
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	2
TOLUENE	1	2
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	99 %
BFB	101 %
TOLUENE-D6	96 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-004

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-5
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-21-87
DATE RECEIVED :1-22-87
DATE ANALYZED:1-29-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	2
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	99 %
BFB	100 %
TOLUENE-D6	96 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-005

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-6
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-21-87
DATE RECEIVED :1-22-87
DATE ANALYZED:1-29-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	1
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	1
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	97 %
BFB	97 %
TOLUENE-D6	96 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-006

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-7
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-21-87
DATE RECEIVED :1-22-87
DATE ANALYZED:1-29-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	12
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	1
TOLUENE	1	1
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	98 %
BFB	97 %
TOLUENE-D6	98 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-007

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-8
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-21-87
DATE RECEIVED :1-22-87
DATE ANALYZED:1-29-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	1
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	100 %
BFB	99 %
TOLUENE-D6	95 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-008

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-10
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-21-87
DATE RECEIVED :1-22-87
DATE ANALYZED:1-29-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	3
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	101 %
BFB	94 %
TOLUENE-D6	99 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-009

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-11
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-21-87
DATE RECEIVED :1-22-87
DATE ANALYZED:1-29-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	1
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	102 %
BFB	98 %
TOLUENE-D6	96 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE ANALYZED:1-29-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	5
ACETONE	10	TR
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	TR
4-METHYL-2-PENTANONE (MIBK)	10	TR
TETRACHLOROETHENE	1	U
TOLUENE	1	2
CHLOROBENZENE	1	U
ETHYL BENZENE	1	1
STYRENE	1	1
TOTAL XYLENES	1	2

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	102 %
BFB	102 %
TOLUENE-D6	98 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE ANALYZED:1-29-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	6
ACETONE	10	TR
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	TR
4-METHYL-2-PENTANONE (MIBK)	10	TR
TETRACHLOROETHENE	1	1
TOLUENE	1	2
CHLOROBENZENE	1	U
ETHYL BENZENE	1	1
STYRENE	1	U
TOTAL XYLENES	1	2

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	105 %
BFB	95 %
TOLUENE-D6	100 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :A-1-MW4-1
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-21-87
DATE RECEIVED :1-22-87
DATE EXTRACTED:1-30-87
DATE ANALYZED:2-3-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 02308-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC.
SAMPLE I.D. :A-1-MW4-1

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	86 %
2-FLUOROBIPHENYL	80 %
TERPHENYL	84 %
PHENOL-D5	54 %
2-FLUOROPHENOL	77 %
2,4,6-TRIBROMOPHENOL	54 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-001

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:A-1-MW4-1
SAMPLE MATRIX :WATER
UNITS: ug/L

DATE SAMPLED:1-21-87
DATE RECEIVED : 1-22-87
DATE ANALYZED:2-3-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN	443	6
UNKNOWN	1904	13
UNKNOWN BRANCHED HYDROCARBON	1722	4
UNKNOWN	1908	3
UNKNOWN	2161	20

ATI I.D. 02308-001

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: A-1-MW4-1
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 1-21-87
DATE RECEIVED : 1-22-87
DATE EXTRACTED: 1-30-87
DATE ANALYZED: 2-3-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

ATI I.D. 02308-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :ATI REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :N/A
DATE RECEIVED :N/A
DATE EXTRACTED:1-30-87
DATE ANALYZED:2-3-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 02308-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC. PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. :ATI REAGENT BLANK UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	81 %
2-FLUOROBIPHENYL	79 %
TERPHENYL	88 %
PHENOL-D5	46 %
2-FLUOROPHENOL	75 %
2,4,6-TRIBROMOPHENOL	47 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02308-RB

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS: ug/L

DATE SAMPLED:N/A
DATE RECEIVED : N/A
DATE ANALYZED:2-3-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN HYDROCARBON	1314	5
UNKNOWN	1331	2
UNKNOWN	1906	7
UNKNOWN	2161	10

ATI I.D. 02308-RB

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: ATI REAGENT BLANK
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: N/A
DATE RECEIVED : N/A
DATE EXTRACTED: 1-30-87
DATE ANALYZED: 2-3-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

Analytical**Technologies,**Inc.
San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

Chain of Custody Record

DATE 1/22/87 PAGE 1 OF 1

CLIENT [illegible] ASSOC
ADDRESS 18351 BEACH BLVD
HUNTINGTON BCH, CA 92647
PROJECT PACAC BUILDING
SAMPLERS (SIGNATURE) [illegible]

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX EPA 415	EPA 625	EPA Phenols 420.1	NO_3	EPA T. CN 335.3			NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
A-1-MW4-1	1/21/87		A-1-MW4		X	X			X	X		X		X	X	X	X			7	
A-1-MW4-3	1/21/87		"	X		X						X	X			X	X			8	
A-1-MW4-4	1/21/87		"	X		X						X	X			X	X			8	
A-1-MW4-5	1/21/87		"	X		X						X	X			X	X			8	
A-1-MW4-6	1/21/87		"	X		X						X	X			X	X			8	
A-1-MW4-7	1/21/87		"	X		X						X	X			X	X			8	
A-1-MW4-8	1/22/87		"	X		X						X	X			X	X			8	
A-1-MW4-10	1/22/87		"	X		X						X	X			X	X			9	
A-1-MW4-11	1/22/87		"	X		X						X	X			X	X			8	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature [illegible]	1/22/87	Signature [illegible]	1/22/87	Signature [illegible]	1/22	Signature	
Printed Name JEFF MARTIN	TIME	Printed Name RON MACKINTOSH	TIME 1020 AM	Printed Name S. NAVARRO	TIME	Printed Name	TIME
Company WEBB + ASSOC		Company Kedi-Express		Company Kedi Express		Company	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature		Signature		Signature		Signature [illegible]	
Printed Name	TIME	Printed Name	TIME	Printed Name	TIME	Printed Name [illegible]	TIME
Company		Company		Company		Analytical Technologies, Inc.	

13 TOTAL NUMBER OF CONTAINERS

METHOD OF SHIPMENT [illegible] 55

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

0834

DISTRIBUTION: WHITE, CANARY - ANALYTICAL TECHNOLOGIES, INC. • PINK - ORIGINATOR

AnalyticalTechnologies, Inc.

Corporate Offices 5550 Morehouse

ATI I.D. 02604

RECEIVED FEB - 9 1987

February 18, 1987

Gregg & Associates
18351 Beach Blvd.
Huntington Beach, CA 92648

Project : LOCKHEED

Project No.: 86-106-022

Attention: Ferol Kimble

On January 23, 1986, Analytical Technologies, Inc. received seven (7) water samples for analysis. Seven (7) samples were analyzed for cyanide, total dissolved solids, sulfate, nitrate (as nitrogen), bicarbonate (as CaCO3), phosphate (as phosphorus), chloride, fluoride, calcium, manganese, sodium, bromide, potassium, electrical conductivity, and volatile organics. Six (6) samples were analyzed for the California Administrative Code metals and total organic carbon. One (1) sample was analyzed for the Priority Pollutant Metals, total phenols, and base/neutral and acid extractables including pesticides and polychlorinated biphenyls.

The manganese, calcium, sodium, and potassium were analyzed using atomic emission spectroscopy/inductively coupled argon plasma in accordance with EPA method 6010. The nitrate (as nitrogen), and sulfate were done using autoanalyzer in accordance with EPA methods 353.1 and 375.2. The chloride, fluoride, and phosphate (as phosphorus) were analyzed in accordance with EPA methods 325.3 and 340.2, 365.1. The electrical conductivity, total dissolved solids, and bicarbonate (as CaCO3) were analyzed in accordance with EPA methods 120.1, 160.1, and 310.1, respectively.

The metals zinc, nickel, chromium, copper, silver, molybdenum, cobalt, vanadium, beryllium, and barium were analyzed using atomic emission spectroscopy by inductively coupled argon plasma in accordance with EPA method 6010. The metals arsenic, cadmium, lead, antimony, selenium, and thallium were analyzed using atomic absorption graphite furnace in accordance with EPA methods outlined in the 7000 series. The mercury was analyzed using cold vapor atomic absorption technique in accordance with EPA method 7471.

The cyanide, and total phenols were analyzed in accordance with EPA methods 335.3 and 420.2, respectively.

The TOC was analyzed using Xertex/Dohrmann DC-80 carbon analyzer in accordance with EPA method 415.2.

The base/neutral and acid extractables including pesticides and polychlorinated biphenyls were analyzed using gas chromatography/ mass spectroscopy in accordance with EPA method 625. The volatile organics were analyzed using gas chromatography/mass spectroscopy in accordance with EPA method 624. Sample results have been corrected for constituents found in the reagent blank.

The bromide results will be sent under a separate cover as soon as posible.

The results of these analyses and the quality control data are enclosed.

Marcilen Lindsey
Marcilen Lindsey
Inorganics Supervisor

Richard M. Amano
Laboratory Manager

Note: The samples from this project will be disposed of 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.

ATI I.D. 02604

DATA SHEET

CLIENT :GREGG & ASSOCIATES
PROJECT:LOCKHEED 86-106-022
SAMPLE MATRIX:WATER

DATE SAMPLED:1-22-87
DATE RECEIVED:1-23-87
UNITS : mg/L

ATI SAMPLE I.D.	CLIENT SAMPLE I.D.	CYANIDE	TOTAL PHENOLS	TOTAL ORGANIC CARBON
-001	A-1-MW4-9	<0.01	---	0.5
-002	A-1-MW4-12	<0.01	---	0.7
-003	A-1-MW4-13	<0.01	---	<0.5
-004	A-1-MW4-14	<0.01	---	0.5
-005	A-1-MW4-15	<0.01	---	<0.5
-006	A-1-MW4-16	<0.01	---	0.6
-007	A-1-MW4-17	<0.01	<0.02	---

ATI I.D. 02604

GENERAL MINERALS

CLIENT : GREGG & ASSOCIATES
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-23-87
SAMPLE MATRIX : WATER
UNITS : mg/L

PARAMETER	CLIENT I.D.	A-1-MW4-9	A-1-MW4-12	A-1-MW4-13	A-1-MW4-14
	ATI I.D.	-001	-002	-003	-004
TOTAL DISSOLVED SOLIDS		416	384	408	384
SULFATE		52.0	54.0	55.0	53.0
NITRATE (AS NITROGEN)		0.30	0.65	0.45	0.46
BICARBONATE (AS CaCO3)		152	164	159	160
PHOSPHATE (AS PHOSPHORUS)		<0.02	<0.02	<0.02	<0.02
CHLORIDE		95.4	80.0	88.6	80.0
FLUORIDE		0.6	0.6	0.6	0.6
CALCIUM		56.1	56.4	57.2	57.5
MANGANESE		0.05	0.09	0.01	0.04
SODIUM		79.8	72.7	75.9	76.9
BROMIDE		<0.5	<0.5	<0.5	<0.5
POTASSIUM		3.4	3.8	3.6	3.6
ELECTRICAL CONDUCTIVITY (umhos/cm)		677	650	662	661

PARAMETER	CLIENT I.D.	A-1-MW4-15	A-1-MW4-16	A-1-MW4-17
	ATI I.D.	-005	-006	-007
TOTAL DISSOLVED SOLIDS		404	412	428
SULFATE		54.0	55.0	58.0
NITRATE (AS NITROGEN)		1.4	1.5	0.27
BICARBONATE (AS CaCO3)		177	181	159
PHOSPHATE (AS PHOSPHORUS)		<0.02	0.08	<0.02
CHLORIDE		69.8	73.2	83.4
FLUORIDE		0.6	0.6	0.6
CALCIUM		59.5	56.3	56.6
MANGANESE		0.12	0.19	0.05
SODIUM		73.9	78.4	73.5
BROMIDE		<0.5	<0.5	<0.5
POTASSIUM		3.7	4.5	3.1
ELECTRICAL CONDUCTIVITY (umhos/cm)		655	669	653

ATI I.D.02604

CLIENT :GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022

QUALITY CONTROL

UNITS:mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
CYANIDE	2-3-87	02604-004	<0.01	<0.01	N/A
TOTAL PHENOLS	2-18-87	02308-001	<0.02	<0.02	N/A
TOTAL ORGANIC CARBON	2-13-87	01306-002	3.5	3.2	76.9
TOTAL DISSOLVED SOLIDS	2-10-87	02604-007	428	396	7.8
SULFATE	2-18-87	02604-003	55.0	55.0	0.0
NITRATE (AS NITROGEN)	2-16-87	02604-001	0.30	0.30	0.0
BICARBONATE (AS CaCO3)	1-29-87	02604-001	152	154	1.3
PHOSPHATE (AS PHOSPHORUS)	1-28-87	02604-007	<0.02	<0.02	N/A
CHLORIDE	2-12-87	02604-005	69.8	69.8	0.0
FLUORIDE	2-13-87	02604-003	0.6	0.6	0.0
CALCIUM	2-2-87	02209-003	0.3	0.4	28.6
MANGANESE	2-2-87	02604-003	0.01	0.02	66.7
SODIUM	1-30-87	02604-004	76.9	73.7	4.2
BROMIDE	2-21-87	02901-009	<0.5	<0.5	N/A
POTASSIUM	2-2-87	02604-003	3.6	3.6	0.0
ELECTRICAL	2-10-87	02604-002	650	649	0.2

UNITS:mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% RECOVERY
CYANIDE	02604-004	0.10	0.10	100
TOTAL PHENOLS	02308-001	0.17	0.16	106
TOTAL ORGANIC CARBON	01306-002	26.3	20.0	115
TOTAL DISSOLVED SOLIDS	02604-007	N/A	N/A	N/A
SULFATE	02604-003	98	40	97
NITRATE (AS NITROGEN)	02604-001	1.03	1.00	89
BICARBONATE (AS CaCO3)	02604-001	N/A	N/A	N/A
PHOSPHATE (AS PHOSPHORUS)	02604-007	0.96	1.00	96
CHLORIDE	02604-005	208	120	115
FLUORIDE	02604-003	5.0	5.0	88
CALCIUM	02209-003	101	100	99
MANGANESE	02604-003	9.98	10.0	99
SODIUM	02604-004	308	250	93
BROMIDE	02901-009	4.91	5.00	98
POTASSIUM	02604-003	24.1	20.0	103
ELECTRICAL	02604-002	N/A	N/A	N/A

ATI I.D. 02604

CALIFORNIA ADMINISTRATIVE CODE
METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-23-87
SAMPLE MATRIX :WATER
UNITS : mg/L

CLIENT I.D.	A-1-MW4 -9	A-1-MW4 -12	A-1-MW4 -13	A-1-MW4 -14	A-1-MW4 -15	A-1-MW4 -16
PARAMETER						
ATI I.D.	-001	-002	-003	-004	-005	-006
ZINC	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
NICKEL	0.01	0.03	0.01	0.02	0.03	0.01
CHROMIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
COPPER	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
SILVER	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MOLYBDENUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
COBALT	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
VANADIUM	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BERYLLIUM	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
BARIUM	0.07	0.06	0.07	0.07	0.06	0.05
ARSENIC	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CADMIUM	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
LEAD	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
ANTIMONY	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
SELENIUM	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
THALLIUM *	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
MERCURY	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

* HIGHER DETECTION LIMIT DUE TO SAMPLE MATRIX INTERFERENCE.

ATI I.D. 02604

PRIORITY POLLUTANT METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED: 1-23-87
SAMPLE MATRIX :WATER
UNITS : mg/L

PARAMETER	CLIENT I.D. A-1-MW4-17
ATI I.D.	-007
ZINC	0.03
NICKEL	0.03
CHROMIUM	<0.01
COPPER	<0.02
SILVER	<0.05
BERYLLIUM	<0.02
ARSENIC	<0.002
CADMIUM	<0.0004
LEAD	<0.002
ANTIMONY	<0.002
SELENIUM	<0.002
THALLIUM	<0.004
MERCURY	<0.0005

:NT : GREGG & ASSOC. ATI I.D. 02604
JECT:LOCKHEED 86-106-022

METALS
QUALITY CONTROL

UNITS:mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
ZINC	2-2-87	02604-003	<0.01	<0.01	N/A
NICKEL	2-2-87	02604-003	0.01	<0.01	N/A
CHROMIUM	2-2-87	02604-003	<0.01	<0.01	N/A
COPPER	2-2-87	02604-003	<0.02	<0.02	N/A
SILVER	2-2-87	02604-003	<0.05	<0.05	N/A
MOLYBDENUM	2-2-87	02604-003	<0.02	<0.02	N/A
COBALT	2-2-87	02604-003	<0.02	<0.02	N/A
VANADIUM	2-2-87	02604-003	<0.01	<0.01	N/A
BERYLLIUM	2-2-87	02604-003	<0.02	<0.02	N/A
BARIUM	2-2-87	02604-003	0.07	0.07	0.0
ARSENIC	2-5-87	02604-001	<0.002	<0.002	N/A
CADMIUM	2-6-87	02604-002	<0.0004	<0.0004	N/A
LEAD	1-30-87	02604-001	<0.002	<0.002	N/A
ANTIMONY	1-28-87	02604-006	<0.002	<0.002	N/A
[illegible]NIUM	1-29-87	02604-006	<0.002	<0.002	N/A
[illegible]LLIUM	1-27-87	02604-001	<0.004	<0.004	N/A
MERCURY	2-2-87	02604-003	<0.0005	<0.0005	N/A

UNITS:mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% REC.
ZINC	02604-003	5.11	5.0	102
NICKEL	02604-003	4.76	5.0	95
CHROMIUM	02604-003	5.03	5.0	100
COPPER	02604-003	4.68	5.0	94
SILVER	02604-003	4.18	5.0	84
MOLYBDENUM	02604-003	5.11	5.0	102
COBALT	02604-003	5.05	5.0	101
VANADIUM	02604-003	4.87	5.0	97
BERYLLIUM	02604-003	5.09	5.0	102
BARIUM	02604-003	5.08	5.0	100
ARSENIC	02604-001	0.052	0.050	104
CADMIUM	02604-002	0.0054	0.0060	90
LEAD	02604-001	0.046	0.05	92
ANTIMONY	02604-006	0.020	0.05	104
SI NIUM	02604-006	0.044	0.05	88
[illegible]LLIUM	02604-001	0.080	0.10	80
[illegible]CURY	02604-003	0.0045	0.0050	90

ATI I.D. 02604-001

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-9
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-22-87
DATE RECEIVED :1-23-87
DATE ANALYZED:2-2-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	1
TOLUENE	1	2
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	89 %
BFB	106 %
TOLUENE-D6	104 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02604-002

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-12
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-22-87
DATE RECEIVED :1-23-87
DATE ANALYZED:2-2-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	11
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	28
TOLUENE	1	2
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	89 %
BFB	108 %
TOLUENE-D6	103 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02604-003

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-13
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-22-87
DATE RECEIVED :1-23-87
DATE ANALYZED:2-2-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	7
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	21
TOLUENE	1	1
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	95 %
BFB	106 %
TOLUENE-D6	104 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02604-004

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-14
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-22-87
DATE RECEIVED :1-23-87
DATE ANALYZED:2-2-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	7
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	18
TOLUENE	1	1
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	90 %
BFB	112 %
TOLUENE-D6	103 %

U indicates the compound was analyzed for but was not decected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02604-005

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-15
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-22-87
DATE RECEIVED :1-23-87
DATE ANALYZED:2-3-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	23
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	6
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	1
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	48
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	2
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	65
TOLUENE	1	3
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	71 %
BFB	95 %
TOLUENE-D6	92 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02604-005

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:A-1-MW4-15
SAMPLE MATRIX :WATER
UNITS: ug/L

DATE SAMPLED:1-22-87
DATE RECEIVED : 1-23-87
DATE ANALYZED:2-3-87
METHOD : EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN	703	60

ATI I.D. 02604-006

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-16
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-22-87
DATE RECEIVED :1-23-87
DATE ANALYZED:2-2-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	39
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	59
TOLUENE	1	4
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	97 %
BFB	110 %
TOLUENE-D6	99 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02604-007

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : A-1-MW4-17
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-22-87
DATE RECEIVED :1-23-87
DATE ANALYZED:2-3-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	130
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	70 %
BFB	97 %
TOLUENE-D6	93 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02604-007

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:A-1-MW4-17
SAMPLE MATRIX :WATER
UNITS: ug/L

DATE SAMPLED:1-22-87
DATE RECEIVED : 1-23-87
DATE ANALYZED:2-3-87
METHOD : EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
HYDROCARBON	377	6
HYDROCARBON	491	5

ATI I.D. 02604-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED :N/A
DATE ANALYZED:2-2-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	9
ACETONE	10	11
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	95 %
BFB	113 %
TOLUENE-D6	106 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02604-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED :N/A
DATE ANALYZED:2-3-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	7
ACETONE	10	TR
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	1
TOLUENE	1	1
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	97 %
BFB	99 %
TOLUENE-D6	97 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02604-007

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :A-1-MW4-17
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-22-87
DATE RECEIVED :1-23-87
DATE EXTRACTED:1-30-87
DATE ANALYZED:2-3-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 02604-007

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC.
SAMPLE I.D. :A-1-MW4-17

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	TR
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	84 %
2-FLUOROBIPHENYL	79 %
TERPHENYL	98 %
PHENOL-D5	56 %
2-FLUOROPHENOL	81 %
2,4,6-TRIBROMOPHENOL	63 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02604-007

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:A-1-MW4-17
SAMPLE MATRIX :WATER
UNITS: ug/L

DATE SAMPLED:1-22-87
DATE RECEIVED : 1-23-87
DATE ANALYZED:2-3-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN ORGANIC ACID	1315	3

ATI I.D. 02604-007

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: A-1-MW4-17
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 1-22-87
DATE RECEIVED : 1-23-87
DATE EXTRACTED: 1-30-87
DATE ANALYZED: 2-3-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

ATI I.D. 02604-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :ATI REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :N/A
DATE RECEIVED :N/A
DATE EXTRACTED:1-30-87
DATE ANALYZED:2-3-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 02604-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC. PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. :ATI REAGENT BLANK UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	81 %
2-FLUOROBIPHENYL	79 %
TERPHENYL	88 %
PHENOL-D5	46 %
2-FLUOROPHENOL	75 %
2,4,6-TRIBROMOPHENOL	47 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 02604-RB

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS: ug/L

DATE SAMPLED:N/A
DATE RECEIVED : N/A
DATE ANALYZED:2-3-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN HYDROCARBON	1314	5
UNKNOWN	1331	2
UNKNOWN	1906	7
UNKNOWN	2161	10

ATI I.D. 02604-RB

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: ATI REAGENT BLANK
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: N/A
DATE RECEIVED : N/A
DATE EXTRACTED: 1-30-87
DATE ANALYZED: 2-3-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

Analytical Technologies, Inc.
San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

Chain of Custody Record

DATE 1/23/87 PAGE 1 OF 1

CLIENT GREEN TRISUC
ADDRESS 18351 BEACH BLVD
HUNTINGTON BEACH CA 92647
PROJECT ORLAC BURBANK 86-106-022
SAMPLERS (SIGNATURE)

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX EPA 415	EPA 625	T. Phenols EPA 420.1	NO3	T. CN EPA 335.3			NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
A-1-MW4-9	1/22/87		A-1-MW4	X		X						X	X			X	X			8	
A-1-MW4-12	1/22/87		"	X		X						X	X			X	X			8	
A-1-MW4-13	1/22/87		"	X		X						X	X			X	X			8	
A-1-MW4-14	1/22/87		"	X		X						X	X			X	X			8	
A-1-MW4-15	1/22/87		"	X		X						X	X			X	X			8	
A-1-MW4-16	1/22/87		"	X		X						X	X			X	X			8	
A-1-MW4-17	1/22/87		"		X	X			X	X		X		X	X	X	X			9	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature		Signature	1/23/87	Signature	1/23/87	Signature	
Printed Name JEFF MARTIN	TIME	Printed Name KEN NAVARRO	TIME 4:00 pm	Printed Name KEN NAVARRO	TIME 7:55 pm	Printed Name	TIME
Company GREEN TRISUC		Company Kelli-Express		Company Kelli-Express		Company	
RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature		Signature		Signature		Signature	
Printed Name	TIME	Printed Name	TIME	Printed Name	TIME	Printed Name	TIME
Company		Company		Company		Analytical Technologies, Inc.	

57 TOTAL NUMBER OF CONTAINERS

METHOD OF SHIPMENT

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

DISTRIBUTION: WHITE, CANARY - ANALYTICAL TECHNOLOGIES, INC. • PINK - ORIGINATOR

0834

Analytical **Technologies,** Inc.

San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

C[illegible]n of Custody Record

DATE _____ PAGE _____ OF _____

CLIENT _____

ADDRESS _____

PROJECT _____

SAMPLERS (SIGNATURE) _____

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX							NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature		Signature		Signature		Signature	
	TIME		TIME		TIME		TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Company		Company		Company		Company	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature		Signature		Signature		Signature	
	TIME		TIME		TIME		TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Company		Company		Company		Analytical Technologies, Inc.	

TOTAL NUMBER OF CONTAINERS

METHOD OF SHIPMENT

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

0834

DISTRIBUTION: WHITE, CANARY - ANALYTICAL TECHNOLOGIES, INC. • PINK - ORIGINATOR

Received: 01/23/87

TMA Inc. REPORT 03/12/87 15:25:49

Work Order # 87-01[illegible]

RECEIVED [illegible] 1987

REPORT TO: Gregg & Associates, Inc.
10321 Beach Blvd.
Huntington Beach, CA 92647

ATTEN: Mr. Ferol Kimble

CLIENT: GREGG ASSOC. SAMPLES: 2
COMPANY: Gregg & Associates, Inc.
SITE:

WORK ID: Calac Burbank
TAKEN: by Gregg
TRANS: by Gregg
TYPE:
P.O. #: Verbal - Ferol Kimble
INVOICE: under separate cover

PREPARED BY: Thermo Analytical, Inc.
160 Taylor Street
Monrovia, CA 91016

CERTIFIED BY

ATTEN:
PHONE: 818-357-3247

CONTACT: JSC

This report is for the sole and exclusive use of the client to whom it is addressed. Samples not destroyed in testing are retained a maximum of thirty (30) days unless otherwise requested.

Previously Reported on 03/10/87

SAMPLE IDENTIFICATION

[illegible] 6-1-MW4-2
[illegible] 6-1-MW4-18

TEST CODES and NAMES used on this report

608	EPA 608 Pesticides & PCB's	NI	Nickel
AG	Silver	NO3 W	Nitrate (water)
AS	Arsenic	OXPEST	Pesticide Extraction-Water
BE	Berylium	PB	Lead
BNA W	Semivolatile Organics	PHENOL	Total Phenol - water
BR	Bromide	PO4	Phosphate
CA	Calcium	SB	Antimony
CD	Cadmium	SE	Selenium
CL	Chloride	SO4	Sulfate
CN	Cyanide distillation	TDS	Total Dissolved Solids
CO3	Carbonate	TL	Thallium
COND	Specific Conductance	VOA 1	Volatile Organics Analysis
CR	Chromium	ZN	Zinc
CU	Copper		
FLUORI	Fluoride		
HCO3	Bicarbonate		
HG	Mercury		
K	Potassium		
MG	Magnesium		
MN	Manganese		
NA	Sodium		

0824

Received: 01/23/87 Results by Sample

SAMPLE ID A-1-MW4-2 SAMPLE # 01 FRACTIONS: A,B,C,D,E,F,G,H,I

Date & Time Collected 01/21/87 Category

608	See Table ug/L	AG	< 0.02 mg/L	AS	< 0.002 mg/L	BE	< 0.01 mg/L	BR	1.6 mg/L	CA	47.2 mg/L
CD	0.007 mg/L	CL	230. mg/L	CN	< 0.05 mg/L	CO3	< 10. mg/L	COND	1096. micromhos	CR	< 0.02 mg/L
CU	0.07 mg/L	FLUORI	0.4 mg/L	HCO3	140. mg/L	HG	< 0.0005 mg/L	K	2.35 mg/L	MG	8.4 mg/L
MN	0.10 mg/L	NA	175. mg/L	NI	0.06 mg/L	NO3_W	< 0.1 mg/L	OXPEST	02/10/87 Date complete	PB	0.007 mg/L
PHENOL	0.02 mg/L	PO4	1.0 mg/L	SB	0.005 mg/L	SE	< 0.002 mg/L	SO4	66. mg/L	TDS	590. mg/L
TL	0.10 mg/L	ZN	0.09 mg/L								

Page 3 HRA Inc. REPORT Work Order # 87-[illegible]
Received: 01/23/87 Results by Sample

SAMPLE ID A-1-MW4-2 FRACTION 01C TEST CODE BNA W NAME Semivolatile Organics
Date & Time Collected 01/21/87 Category

SEMI-VOLATILE ORGANIC RESULTS

COMPOUND	RESULT	DET LIMIT	COMPOUND	RESULT	DET LIMIT
n-nitrosodimethylamine	ND	50	3-nitroaniline	ND	10
phenol	ND	10	acenaphthene	ND	10
aniline	ND	50	2,4-dinitrophenol	ND	50
bis(2-chloroethyl)ether	ND	10	4-nitrophenol	ND	50
2-chlorophenol	ND	10	dibenzofuran	ND	10
1,3-dichlorobenzene	ND	10	2,6-dinitrotoluene	ND	10
1,4-dichlorobenzene	ND	10	2,4-dinitrotoluene	ND	10
benzyl alcohol	ND	10	diethylphthalate	ND	10
1,2-dichlorobenzene	ND	10	4-chlorophenyl-phenylether	ND	10
2-methylphenol	ND	10	fluorene	ND	10
bis(2-chloroisopropyl)ether	ND	10	4-nitroaniline	ND	50
4-methylphenol	ND	10	4,6-dinitro-2-methylphenol	ND	50
n-nitroso-di-n-propylamine	ND	10	n-nitrosodiphenylamine	ND	10
hexachloroethane	ND	10	4-bromophenyl-phenylether	ND	10
nitrobenzene	ND	10	hexachlorobenzene	ND	10
isophorone	ND	10	pentachlorophenol	ND	10
2-nitrophenol	ND	10	phenanthrene	ND	10
2,4-dimethylphenol	ND	10	anthracene	ND	10
benzoic acid	ND	50	di-n-butylphthalate	ND	10
bis(2-chloroethoxy)methane	ND	10	fluoranthene	ND	10
2,4-dichlorophenol	ND	10	benzidine	ND	50
1,2,4-trichlorobenzene	ND	10	pyrene	ND	10
naphthalene	ND	10	butylbenzylphthalate	ND	10
4-chloroaniline	ND	10	3,3'-dichlorobenzidine	ND	20
hexachlorobutadiene	ND	10	benzo(a)anthracene	ND	10
4-chloro-3-methylphenol	ND	10	bis(2-ethylhexyl)phthalate	ND	10
2-methylnaphthalene	ND	10	chrysene	ND	10
hexachlorocyclopentadiene	ND	10	di-n-octyl phthalate	ND	10
2,4,6-trichlorophenol	ND	10	benzo(b)fluoranthene	ND	10
2,4,5-trichlorophenol	ND	10	benzo(k)fluoranthene	ND	10
2-chloronaphthalene	ND	10	benzo(a)pyrene	ND	10
2-nitroaniline	ND	50	indeno(1,2,3-cd)pyrene	ND	10
dimethyl phthalate	ND	10	dibenzo(a,h)anthracene	ND	10
acenaphthylene	ND	10	benzo(g,h,i)perylene	ND	10

ND = Not detected at or above limits. All units are in ug/l

0834

Page 4 ◯ IMA Inc. ◯ REPORT Work Order # [illegible] ◯

Received: 01/23/87 Results by Sample Continued from Above

SAMPLE ID A-1-MW4-2 FRACTION O1C TEST CODE BNA W NAME Semivolatile Organics

Date & Time Collected 01/21/87 Category

SURROGATE COMPOUND	RECOVERY
2-Fluorophenol	39 %
d3-phenol	31 %
d5-nitrobenzene	53 %
2-fluorobiphenyl	57 %
2,4,6-tribromophenol	79 %
d14-terphenyl	54 %

ANALYST	JSC
DATE EXTRACTED	01/28/87
DATE INJECTED	02/05/87
DILUTION FACTOR	1.00
VERIFIED BY	MLB

0834

Page 3 IMA Inc. REPORT Work Order # 87-[illegible]
Received 01/23/87 Results by Sample

SAMPLE ID A-1-MW4-2 FRACTION 01E TEST CODE VOA 1 NAME Volatile Organics Analysis
Date & Time Collected 01/21/87 Category

VOLATILE ORGANIC RESULTS

COMPOUND	RESULT	DET LIMIT
benzene	ND	5
carbon tetrachloride	ND	5
chlorobenzene	ND	5
1,2-dichloroethane	ND	5
1,1,1-trichloroethane	ND	5
1,1-dichloroethane	ND	5
1,1,2-trichloroethane	ND	5
1,1,2,2-tetrachloroethane	ND	5
chloroethane	ND	10
2-chloroethylvinyl ether	ND	5
chloroform	ND	5
1,1-dichloroethylene	ND	5
1,2-trans-dichloroethylene	ND	5
1,2-dichloropropane	ND	5
cis-trans-1,3-dichloropropene	ND	5
ethylbenzene	ND	5
methylene chloride	ND	5
methyl chloride	ND	5
methyl bromide	ND	5
bromoform	ND	5
dichlorobromomethane	ND	5
chlorodibromomethane	ND	5
tetrachloroethylene	ND	5
toluene	10	5
trichloroethylene	ND	5
vinyl chloride	ND	10

ANALYST JSC
DATE INJECTD 01/25/87
DILUTION FACTOR 1.00
VERIFIED BY MLB

SURROGATES	COMPOUND	RECOVERY
	d8-toluene	119 %
	bromofluorobenzene	114 %

Note: All results reported in ug/l unless otherwise specified
ND = not detected at the specified level.

0834

Page 6 | IMA Inc. | REPORT | Work Order # 87-01

Received 01/23/87

Results by Sample

SAMPLE ID A-1-MW4-18 | SAMPLE # 02 FRACTIONS: A,B,C,D,E,F,G,H,I

Date & Time Collected 01/22/87 | Category

AOX	See table ug/L	AG	< 0.02 mg/L	AS	< 0.001 mg/L	BE	< 0.01 mg/L	BR	0.6 mg/L	CA	52.1 mg/L
CD	0.002 mg/L	CL	70 mg/L	CN	< 0.05 mg/L	CO3	< 10. mg/L	COND	723. micromhos	CR	0.02 mg/L
CU	0.14 mg/L	FLUORI	0.3 mg/L	HCO3	205. mg/L	HG	< 0.002 mg/L	K	3.21 mg/L	MG	11.7 mg/L
MN	0.06 mg/L	NA	72.9 mg/L	NI	0.15 mg/L	NO3 W	< 0.1 mg/L	OXPEST	02/10/87 Date complete	PB	0.003 mg/L
PHENOL	0.004 mg/L	PO4	28. mg/L	SB	0.014 mg/L	SE	< 0.002 mg/L	SO4	50. mg/L	TDS	418. mg/L
TL	0.10 mg/L	ZN	0.12 mg/L								

0834

Page 7 | IMA Inc. | REPORT | Work Order # 87-[illegible]

Received 01/23/87

Results by Sample

SAMPLE ID A-1-MW4-18 FRACTION O2C TEST CODE BNA W NAME Semivolatile Organics

Date & Time Collected 01/22/87 Category

SEMI-VOLATILE ORGANIC RESULTS

COMPOUND	RESULT	DET LIMIT
n-nitrosodimethylamine	ND	50
phenol	ND	10
aniline	ND	50
bis(2-chloroethyl)ether	ND	10
2-chlorophenol	ND	10
1,3-dichlorobenzene	ND	10
1,4-dichlorobenzene	ND	10
benzyl alcohol	ND	10
1,2-dichlorobenzene	ND	10
2-methylphenol	ND	10
bis(2-chloroisopropyl)ether	ND	10
4-methylphenol	ND	10
n-nitroso-di-n-propylamine	ND	10
hexachloroethane	ND	10
nitrobenzene	ND	10
isophorone	ND	10
2-nitrophenol	ND	10
2,4-dimethylphenol	ND	10
benzoic acid	ND	50
bis(2-chloroethoxy)methane	ND	10
2,4-dichlorophenol	ND	10
1,2,4-trichlorobenzene	ND	10
naphthalene	ND	10
4-chloroaniline	ND	10
hexachlorobutadiene	ND	10
4-chloro-3-methylphenol	ND	10
2-methylnaphthalene	ND	10
hexachlorocyclopentadiene	ND	10
2,4,6-trichlorophenol	ND	10
2,4,5-trichlorophenol	ND	10
2-chloronaphthalene	ND	10
2-nitroaniline	ND	50
dimethyl phthalate	ND	10
acenaphthylene	ND	10

COMPOUND	RESULT	DET LIMIT
3-nitroaniline	ND	50
acenaphthene	ND	10
2,4-dinitrophenol	ND	50
4-nitrophenol	ND	50
dibenzofuran	ND	10
2,6-dinitrotoluene	ND	10
2,4-dinitrotoluene	ND	10
diethylphthalate	ND	10
4-chlorophenyl-phenylether	ND	10
fluorene	ND	10
4-nitroaniline	ND	50
4,6-dinitro-2-methylphenol	ND	50
n-nitrosodiphenylamine	ND	10
4-bromophenyl-phenylether	ND	10
hexachlorobenzene	ND	10
pentachlorophenol	ND	10
phenanthrene	ND	10
anthracene	ND	10
di-n-butylphthalate	ND	10
fluoranthene	ND	10
benzidine	ND	50
pyrene	ND	10
butylbenzylphthalate	ND	10
3,3'-dichlorobenzidine	ND	20
benzo(a)anthracene	ND	10
bis(2-ethylhexyl)phthalate	ND	10
chrysene	ND	10
di-n-octyl phthalate	ND	10
benzo(b)fluoranthene	ND	10
benzo(k)fluoranthene	ND	10
benzo(a)pyrene	ND	10
indeno(1,2,3-cd)pyrene	ND	10
dibenzo(a,h)anthracene	ND	10
benzo(g,h,i)perylene	ND	10

ND = Not detected at given limits. All units are ug/L.

0834

Gregg & Associates, Inc

Table 1

Detection Limits for Metals

Parameter	Detection Limit, mg/L
Silver	0.02
Arsenic	0.001
Beryllium	0.01
Cadmium	0.0001
Chromium	0.02
Copper	0.02
Manganese	0.02
Mercury	0.0005
Nickel	0.04
Lead	0.001
Antimony	0.005
Selenium	0.002
Thallium	0.1
Zinc	0.01

Received: 01/23/87

TMA Inc. REPORT
Results by Sample

Work Order # 87-01
Continued from Above

SAMPLE ID A-1-MW4-18 FRACTION 02C TEST CODE BNA W NAME Semivolatile Organics
Date & Time Collected 01/22/87 Category

SURROGATE COMPOUND	RECOVERY
2-fluorophenol	45 %
d3-phenol	45 %
d5-nitrobenzene	62 %
2-fluorobiphenyl	56 %
2,4,6-tribromophenol	78 %
d14-terphenyl	62 %

ANALYST	JSC
DATE EXTRACTED	01/28/87
DATE INJECTED	02/05/87
DILUTION FACTOR	2.00
VERIFIED BY	MLB

Received: 01/23/87

IMA Inc. REPORT
Results by Sample

Work Order # 87-01[illegible]

SAMPLE ID A-1-MW4-18 FRACTION 02E TEST CODE VOA 1 NAME Volatile Organics Analysis
Date & Time Collected 01/22/87 Category

VOLATILE ORGANIC RESULTS

COMPOUND	RESULT	DET LIMIT
benzene	ND	5
carbon tetrachloride	ND	5
chlorobenzene	ND	5
1,2-dichloroethane	ND	5
1,1,1-trichloroethane	ND	5
1,1-dichloroethane	ND	5
1,1,2-trichloroethane	ND	5
1,1,2,2-tetrachloroethane	ND	5
chloroethane	ND	10
2-chloroethylvinyl ether	ND	5
chloroform	ND	5
1,1-dichloroethylene	ND	5
1,2-trans-dichloroethylene	ND	5
1,2-dichloropropane	ND	5
cis-trans-1,3-dichloropropene	ND	5
ethylbenzene	ND	5
methylene chloride	ND	5
methyl chloride	ND	5
methyl bromide	ND	5
bromoform	ND	5
dichlorobromomethane	ND	5
chlorodibromomethane	ND	5
tetrachloroethylene	ND	5
toluene	ND	5
trichloroethylene	ND	5
vinyl chloride	ND	10

ANALYST JSC
DATE INJECTD 01/28/87
DILUTION FACTOR 1.00
VERIFIED BY MLB

SURROGATES	COMPOUND	RECOVERY
	d8-toluene	119 %
	bromofluorobenzene	118 %

NOTE: All results reported in ug/L unless otherwise specified
ND = not detected at the specified levels

0834

Gregg & Associates, Inc.

Two samples of clear liquid were analyzed for the requested parameters in accordance with the "Methods for Chemical Analysis of Water and Wastes" US EPA 600/4-79-020

According to QC material balance calculations, the TDS value for sample A1-MW4-18 appeared to be low. The sample was re-analyzed for TDS, and a value of 418 is now reported. The mercury detection limit for sample A-1-MW4-18 was higher due to sample matrix.

Gregg & Associates, Inc.

Table 2

Classical Chemistry Detection Limits for Water Samples

Parameter	Detection Limit, mg/L
Bromide	0.05
Calcium	0.05
Chloride	0.1
Cyanide	0.05
Carbonate	10.
Fluoride	0.1
Bicarbonate	10.
Potassium	0.01
Sodium	0.002
Nitrate	0.1
Phosphate	0.5
Phenol	0.002
Sulfate	10.
Total dissolved solids	10.

Gregg & Associates, Inc.

Table 3

Volatile Organic Duplicate Data

Compound	A-1-MW 4-2, ug/L	Duplicate, ug/L
Toluene	10	7
Other volatiles	ND	ND

Table 4

Semivolatile Organic Duplicate Data

Compound	A-1-MW 4-18, ug/L	Duplicate, ug/L
Semivolatiles	ND	ND

FUNCTION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

01A	I	AS_SED	HG_P	01F	I	HOLD2	01A	I	MPRLPW	01C	I	0XBMAW
02A	I	AS_SED	HG_P	02F	I	HOLD2	02A	I	MPRFPW	02C	I	0XBMAW

0834

T M A / A R L I

TENTATIVELY IDENTIFIED COMPOUNDS
(Non-Priority Pollutants)

Customer: Gregg and Associates Work Order #87-01-087

1. Sample ID: A-1-MW4-2 (Volatiles & Semi-Volatiles)

Compound	Approximate Concentration, ug/L
None Detected	

Detection limit approximately: 10 ug/L

2. Sample ID: A-1-MW4-18 (Volatiles & Semi-Volatiles)

Compound	Approximate Concentration, ug/L
None Detected	

Detection limit approximately: 10 ug/L

T M A / A R L I

HAZARDOUS SUBSTANCE LIST (HSL)

Customer: Gregg & Associates

Work Order #87-01-087

Sample ID: A-1-MW4-2

Compound	ug/l
Acetone	< 10.
Carbon Disulfide	< 5.
2-Butanone	< 10.
Vinyl Acetate	< 10.
4-Methyl-2-Pentanone	< 10.
2-Hexanone	< 10.
Styrene	< 5.
Total Xylenes	< 5.

T M A / A R L I

HAZARDOUS SUBSTANCE LIST (HSL)

Customer: Gregg & Associates

Work Order #87-01-087

Sample ID: A-1-MW4-18

Compound	ug/l
Acetone	< 10.
Carbon Disulfide	< 5.
2-Butanone	< 10.
Vinyl Acetate	< 10.
4-Methyl-2-Pentanone	< 10.
2-Hexanone	< 10.
Styrene	< 5.
Total Xylenes	< 5.

T I A / A R L I

160 Taylor St., Monrovia, CA 91016

Sample No. A-1-[illegible]-1P | Work Order #0701087

GREGG & ASSOCIATES

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 alpha-Endosulfan	ND
96P beta-Endosulfan	ND
97P Endosulfan sulfate	ND
98P Endrin	ND
99P Endrin aldehyde	ND
100P Heptachlor	ND
101P Heptachlor epoxide	ND
102P alpha-BHC	ND
103P beta-BHC	ND
104P gamma-BHC	ND
105P delta-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

ND = not detected
(Detection limit approx 1 ug/L)

NA = Not analyzed for

T M A / A R L I

160 Taylor St., Monrovia, CA 91016

Sample No. A-1-HM-2 Work Order #8701087

CREGG & ASSOCIATES

	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	alpha-Endosulfan	ND
96P	beta-Endosulfan	ND
97P	Endosulfan sulfate	ND
98P	Endrin	ND
99P	Endrin aldehyde	ND
100P	Heptachlor	ND
101P	Heptachlor epoxide	ND
102P	alpha-BHC	ND
103P	beta-BHC	ND
104P	gamma-BHC	ND
105P	delta-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

ND = not detected
(Detection limit approx 1 ug/L)

NA = Not analyzed for

T M A / A R L I

Material Balance Report

Sample ID:A-1-MW4-18 Work Order #87-01-087

Results

Anions	mg/L	meq/L
Nitrate	< 0.1	0
Chloride	70.	1.97
Sulfate	50.	1.04
Bicarbonate	205.	3.36
Carbonate	< 10.	0
	Total meq/L:	6.37

Cations	mg/L	meq/l
Sodium	72.9	3.17
Potassium	3.21	0.08
Calcium	52.1	2.15
Magnesium	11.7	0.98
	Total meq/L:	6.38

Total Dissolved Solids: 418

Conductance: 723 micromhos

Q.C. Balance Calculations

Parameter	Predicted Range	Calculated
% Difference of Anion-Cation Total meq/L	0 - 5%	0.2%
Relation Between Total meq/L and 1/100 x Conductance	0 - 20%	13 %
Relation Between TDS Divided by Conductance	50 - 75%	58 %

T M A / A R L I

Material Balance Report

Sample ID:A-1-MW4-2 Work Order #87-01-087

Results

Anions	mg/L	meq/L
Nitrate	< 0.1	0
Chloride	230.	6.49
Sulfate	66.	1.37
Bicarbonate	140.	2.35
Carbonate	< 10.	0

Total meq/L: 10.21

Cations	mg/L	meq/l
Sodium	175.	7.62
Potassium	2.35	0.06
Calcium	47.2	2.36
Magnesium	8.4	0.69

Total meq/L: 10.73

Total Dissolved Solids: 590

Conductance: 1096 micromhos

Q.C. Balance Calculations

Parameter	Predicted Range	Calculated
% Difference of Anion-Cation Total meq/L	0 - 5%	5 %
Relation Between Total meq/L and 1/100 x Conductance	0 - 20%	5 %
Relation Between TDS Divided by Conductance	50 - 75%	54 %

TMA
Thermo Analytical Inc.

TMA/ARLI
160 Taylor Street
Post Office Box 2360
Monrovia, CA 91016
(818) 357-3247

Chain of Custody Record

DATE 1/23/87 PAGE 1 OF 1

CLIENT GREGG + ASSOC
ADDRESS 18351 BEACH BLVD
HUNTINGTON BCH, CA 92647
PROJECT CALAC RUCSAK
SAMPLERS (SIGNATURE) Jeff Martin

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC	EPA 625	T. Phenols EPA 420.1	NO_3	T. CN EPA 335.3			NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
A-1-MW4-2	1/21/87		A-1-MW4		X	X			X	X		X		X	X	X	X			9	
A-1-MW4-18	1/22/87		A-1-MW4		X	X			X	X		X		X	X	X	X			9	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature: Jeff Martin	1/23/87	Signature: Wendy Coates	1/23/87	Signature:		Signature:	
Printed Name: JEFF MARTIN	TIME 12:00 noon	Printed Name: WENDY COATES	TIME 12:05 pm	Printed Name:	TIME	Printed Name:	TIME
Company: GREGG & ASSOC		Company: TMA/ARLI		Company:		Company:	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature:		Signature:		Signature:		Signature:	
Printed Name:	TIME	Printed Name:	TIME	Printed Name:	TIME	Printed Name:	TIME
Company:		Company:		Company:		Analytical Technologies, Inc	

TOTAL NUMBER OF CONTAINERS: 18

METHOD OF SHIPMENT: BY GREGG + ASSOC.

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

0834

AnalyticalTechnologies, Inc. Corporate Offices 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.# 04304

March 6, 1987

RECEIVED MAR - 9 1987

Gregg & Associates
18351 Beach Blvd.
Huntington Beach, CA 92647

Project: LOCKHEED

Project No.: 86-106-022

Attention: Ferol Kimble

On February 11, 1987, Analytical Technologies, Inc. received eight (8) water samples for analyses. Eight (8) samples were analyzed for cyanide, total dissolved solids, sulfate, nitrate (as nitrogen), bicarbonate (as CaCO3), phosphate (as phosphorus), chloride, fluoride, calcium, manganese, sodium, potassium, bromide, electrical conductivity, and volatile organics. Six (6) samples were analyzed for the California Administrative Code metals and total organic carbon (TOC). Two (2) samples were analyzed for the Priority Pollutant Metals, total phenols, and base/neutral and acid extractables including pesticides and polychlorinated biphenyls.

The calcium, manganese, sodium, and potassium were analyzed using atomic emission spectroscopy/inductively coupled argon plasma in accordance with EPA method 6010. The nitrate (as nitrogen), sulfate, and phosphate were done using autoanalyzer in accordance with EPA methods 353.1, 375.2, and 365.1. The chloride and fluoride were analyzed in accordance with EPA methods 325.3 and 340.2. The electrical conductivity, total dissolved solids, and bicarbonate (as CaCO3) were analyzed in accordance with EPA methods 120.1, 160.1, and 310.1, respectively. The bromide was analyzed in accordance with EPA method 300.0.

The metals zinc, nickel, chromium, copper, silver, molybdenum, cobalt, vanadium, beryllium, and barium were analyzed using atomic emission spectroscopy by inductively coupled argon plasma in accordance with EPA method 6010. The metals arsenic, cadmium, lead, antimony, selenium, and thallium were analyzed using atomic absorption graphite furnace in accordance with EPA methods outlined in the 7000 series. The mercury was analyzed using cold vapor atomic absorption technique in accordance with EPA method 7471.

The cyanide and total phenols were analyzed in accordance with EPA methods 335.3 and 420.2 respectively.

The TOC was analyzed using Xertex/Dohrmann DC-80 carbon analyzer in accordance with EPA method 415.2.

The base/neutral and acid extractables including pesticides and polychlorinated biphenyls were analyzed using gas chromatography/ mass spectroscopy in accordance with EPA method 625. The volatile organics were analyzed using gas chromatography/mass spectroscopy in accordance with EPA method 624. Sample results have been corrected for constituents found in the reagent blank.

The results of these analyses and the quality control data are enclosed.

Marcilen Lindsey
Inorganics Supervisor

Richard M. Amano
Laboratory Manager

ML:mag

Note: The samples from this project will be disposed of 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.

ATI I.D.# 04304

DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE MATRIX: WATER

DATE SAMPLED: 2/10/87-2/11/87
DATE RECEIVED: 2-11-87
UNITS: mg/L

ATI SAMPLE I.D.	CLIENT SAMPLE I.D.	CYANIDE	TOTAL PHENOLS	TOTAL ORGANIC CARBON
-001	B-1-MW1-1	<0.01	<0.02	---
-002	B-1-MW1-8	<0.01	<0.02	---
-003	B-1-MW1-2	<0.01	---	<0.5
-004	B-1-MW1-3	<0.01	---	<0.5
-005	B-1-MW1-4	<0.01	---	1.0
-006	B-1-MW1-5	<0.01	---	<0.5
-007	B-1-MW1-6	<0.01	---	0.5
-008	B-1-MW1-7	<0.01	---	0.6

ATI I.D.# 04304

GENERAL MINERALS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022

DATE RECEIVED: 2-11-87
SAMPLE MATRIX: WATER
UNITS: mg/L

CLIENT I.D. / PARAMETER	B-1-MW1-1	B-1-MW1-8	B-1-MW1-2	B-1-MW1-3
ATI I.D.	-001	-002	-003	-004
TOTAL DISSOLVED SOLIDS	444	444	428	500
SULFATE	56.5	140	58.3	61.0
NITRATE (AS NITROGEN)	8.2	10.8	5.7	9.1
BICARBONATE (AS CaCO3)	227	40.4	227	242
PHOSPHATE (AS PHOSPHORUS)	<0.02	<0.02	0.06	0.06
CHLORIDE	30.7	43.5	28.0	37.5
FLUORIDE	<0.5	<0.5	<0.5	<0.5
CALCIUM	83.3	73.9	80.2	87.6
MANGANESE	<0.01	<0.01	<0.01	<0.01
SODIUM	35.6	48.6	34.1	37.1
POTASSIUM	5.0	6.0	5.0	5.0
BROMIDE	<0.5	<0.5	<0.5	<0.5
ELECTRICAL CONDUCTIVITY (umhos/cm)	700	700	690	760

CLIENT I.D. / PARAMETER	B-1-MW1-4	B-1-MW1-5	B-1-MW1-6	B-1-MW1-7
ATI I.D.	-005	-006	-007	-008
TOTAL DISSOLVED SOLIDS	516	504	496	520
SULFATE	71.6	63.3	61.0	60.4
NITRATE (AS NITROGEN)	15.1	14.5	13.8	15.5
BICARBONATE (AS CaCO3)	192	212	242	232
PHOSPHATE (AS PHOSPHORUS)	0.07	0.07	0.07	0.07
CHLORIDE	36.7	38.7	35.8	37.5
FLUORIDE	<0.5	<0.5	<0.5	<0.5
CALCIUM	95.8	93.4	99.2	98.5
MANGANESE	<0.01	<0.01	<0.01	<0.01
SODIUM	37.6	38.2	36.2	32.6
POTASSIUM	5.0	5.0	5.0	5.0
BROMIDE	<0.5	<0.5	<0.5	<0.5
ELECTRICAL CONDUCTIVITY (umhos/cm)	808	760	820	808

ATI I.D.# 04304

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022

QUALITY CONTROL

UNITS:mg/L

PARAMETER	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
CYANIDE	3-04-87	04304-008	<0.01	<0.01	N/A
TOTAL PHENOLS	2-28-87	04803-001	0.03	0.03	0
TOTAL ORGANIC CARBON	2-24-87	04304-008	0.6	0.6	0
TOTAL DISSOLVED SOLIDS	3-02-87	04304-008	520	520	0
SULFATE	3-02-87	04304-006	63.3	62.4	2
NITRATE (AS NITROGEN)	2-26-87	04304-008	15.5	15.5	0
BICARBONATE (AS CaCO3)	2-27-87	04304-005	192	202	5
PHOSPHATE (AS PHOSPHORUS)	2-21-87	04304-004	0.06	0.06	0
CHLORIDE	2-27-87	04304-006	38.7	40.9	6
FLUORIDE	2-27-87	04304-004	<0.5	<0.5	N/A
CALCIUM	3-03-87	04304-008	98.5	99.8	1
MANGANESE	2-19-87	04304-008	<0.01	<0.01	N/A
S[illegible]IUM	3-04-87	04304-008	32.6	33.5	1
P[illegible]ASSIUM	3-03-87	04304-008	5.0	5.0	0
[illegible]MIDE	2-27-87	04304-001	<0.5	<0.5	N/A
[illegible]CTRICAL CONDUCTIVITY (umhos/cm)	3-03-87	04304-004	760	760	0

UNITS:mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% RECOVERY
CYANIDE	04304-008	0.103	0.100	103
TOTAL PHENOLS	04803-001	0.11	0.10	98
TOTAL ORGANIC CARBON	04304-008	24.0	20.0	117
TOTAL DISSOLVED SOLIDS	N/A	N/A	N/A	N/A
SULFATE	04304-006	232	160	106
NITRATE (AS NITROGEN)	04304-008	53.5	40.0	95
BICARBONATE (AS CaCO3)	N/A	N/A	N/A	N/A
PHOSPHATE (AS PHOSPHORUS)	04304-004	1.0	1.0	94
CHLORIDE	04304-006	207	160	104
FLUORIDE	04304-C[illegible]	8.0	8.3	96
CA[illegible]CIUM	04304-008	194	100	95
M[illegible]ANESE	04304-008	10.6	10.0	106
SODIUM	04304-008	284	250	100
[illegible]ASSIUM	04304-008	26	20	105
[illegible]MIDE	04304-001	0.78	1.0	98
ELECTRICAL CONDUCTIVITY (umhos/cm)	N/A	N/A	N/A	N/A

ATI I.D.# 04304

PRIORITY POLLUTANT
METALS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022

DATE RECEIVED: 2-11-87
SAMPLE MATRIX: WATER
UNITS: mg/L

PARAMETER	CLIENT I.D.	B-1-MW1-1	B-1-MW1-8
	ATI I.D.	-001	-002
ZINC		0.03	0.02
NICKEL		0.02	<0.01
CHROMIUM		0.01	<0.01
COPPER		<0.02	<0.02
SILVER		<0.05	<0.05
BERYLLIUM		<0.02	<0.02
ARSENIC		<0.002	<0.002
CADMIUM		<0.0004	<0.0004
LEAD		<0.002	<0.002
ANTIMONY		<0.002	<0.002
SELENIUM		<0.002	<0.002
THALLIUM		0.002	<0.002
MERCURY		<0.0005	<0.0005

ATI I.D.# 04304

CALIFORNIA ADMINISTRATIVE CODE
METALS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022

DATE RECEIVED: 2-11-87
SAMPLE MATRIX: WATER
UNITS: mg/L

CLIENT I.D. / PARAMETER	B-1-MW1-2	B-1-MW1-3	B-1-MW1-4	B-1-MW1-5
ATI I.D.	-003	-004	-005	-006
ZINC	0.02	0.03	0.03	0.02
NICKEL	0.01	<0.01	0.02	<0.01
CHROMIUM	<0.01	<0.01	<0.01	<0.01
COPPER	<0.02	<0.02	<0.02	<0.02
SILVER	<0.05	<0.05	<0.05	<0.05
MOLYBDENUM	<0.02	<0.02	<0.02	<0.02
COBALT	<0.02	<0.02	<0.02	<0.02
VANADIUM	<0.01	<0.01	<0.01	<0.01
BERYLLIUM	0.02	0.02	<0.02	<0.02
BARIUM	0.09	0.10	0.09	0.12
ARSENIC	<0.002	<0.002	<0.002	<0.002
CADMIUM	<0.0004	<0.0004	<0.0004	<0.0004
LEAD	<0.002	<0.002	<0.002	<0.002
ANTIMONY	<0.002	<0.002	<0.002	<0.002
SELENIUM	<0.002	<0.002	<0.002	<0.002
THALLIUM	<0.002	<0.002	<0.002	0.003
MERCURY	<0.0005	<0.0005	<0.0005	<0.0005

CLIENT I.D. / PARAMETER	B-1-MW1-6	B-1-MW1-7
ATI I.D.	-007	-008
ZINC	0.03	0.03
NICKEL	<0.01	<0.01
CHROMIUM	<0.01	<0.01
COPPER	<0.02	<0.02
SILVER	<0.05	<0.05
MOLYBDENUM	<0.02	<0.02
COBALT	<0.02	<0.02
VANADIUM	<0.01	<0.01
BERYLLIUM	<0.02	<0.02
BARIUM	0.11	0.12
ARSENIC	<0.002	<0.002
CADMIUM	<0.0004	<0.0004
LEAD	<0.002	<0.002
ANTIMONY	<0.002	<0.002
SELENIUM	<0.002	<0.002
THALLIUM	<0.002	<0.002
MERCURY	<0.0005	<0.0005

ATI I.D.# 04304

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022

METALS
QUALITY CONTROL

UNITS:mg/L

PARAMETER	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
ZINC	2-19-87	04304-008	0.03	0.03	N/A
NICKEL	2-19-87	04304-008	<0.01	<0.01	N/A
CHROMIUM	2-19-87	04304-008	<0.01	<0.01	N/A
COPPER	2-19-87	04304-008	<0.02	<0.02	N/A
SILVER	2-19-87	04304-008	<0.05	<0.05	N/A
MOLYBDENUM	2-27-87	04304-008	<0.02	<0.02	N/A
COBALT	2-27-87	04304-008	<0.02	<0.02	N/A
VANADIUM	2-27-87	04304-008	<0.01	<0.01	N/A
BERYLLIUM	2-27-87	04304-008	<0.02	<0.02	N/A
BARIUM	2-27-87	04304-008	0.12	0.11	9
ARSENIC	3-03-87	04304-001	<0.002	<0.002	N/A
CADMIUM	2-27-87	04304-008	<0.0004	<0.0004	N/A
LEAD	3-02-87	04304-001	<0.002	<0.002	N/A
ANTIMONY	2-24-87	04304-003	<0.002	<0.002	N/A
SELENIUM	3-04-87	04304-001	<0.002	<0.002	N/A
THALLIUM	3-04-87	04304-001	<0.002	<0.002	N/A
MERCURY	2-24-87	04304-002	<0.0005	<0.0005	N/A

UNITS:mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% REC.
ZINC	04304-008	4.65	5.00	92
NICKEL	04304-008	4.54	5.00	91
CHROMIUM	04304-008	4.77	5.00	95
COPPER	04304-008	4.73	5.00	95
SILVER	04304-008	4.05	5.00	81
MOLYBDENUM	04304-008	4.90	5.00	98
COBALT	04304-008	4.80	5.00	96
VANADIUM	04304-008	5.00	5.00	100
BERYLLIUM	04304-008	4.80	5.00	96
BARIUM	04304-008	5.20	5.00	102
ARSENIC	04304-001	0.056	0.050	112
CADMIUM	04304-008	0.0077	0.0060	129
LEAD	04304-001	0.039	0.050	78
ANTIMONY	04304-003	0.042	0.050	84
SELENIUM	04304-001	0.047	0.050	94
THALLIUM	04304-001	0.050	0.050	100
MERCURY	04304-002	0.0052	0.0050	104

ATI I.D.# 04304-001

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-1
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 20

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-23-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	200	U
BROMOMETHANE	200	U
VINYL CHLORIDE	20	U
CHLOROETHANE	20	U
METHYLENE CHLORIDE	100	U
ACETONE	200	U
CARBON DISULFIDE	20	U
1,1-DICHLOROETHENE	20	U
1,1-DICHLOROETHANE	20	U
TRANS-1,2-DICHLOROETHENE	20	U
CHLOROFORM	20	U
1,2-DICHLOROETHANE	20	U
2-BUTANONE (MEK)	200	TR
1,1,1-TRICHLOROETHANE	20	U
CARBON TETRACHLORIDE	20	U
VINYL ACETATE	200	U
BROMODICHLOROMETHANE	20	U
1,1,2,2-TETRACHLOROETHANE	20	U
1,2-DICHLOROPROPANE	20	U
TRANS-1,3-DICHLOROPROPENE	20	U
TRICHLOROETHENE	20	420
DIBROMOCHLOROMETHANE	20	U
1,1,2-TRICHLOROETHANE	20	U
BENZENE	20	U
CIS-1,3-DICHLOROPROPENE	20	U
2-CHLOROETHYLVINYLETHER	200	U
BROMOFORM	100	U
2-HEXANONE (MBK)	200	U
4-METHYL-2-PENTANONE (MIBK)	200	U
TETRACHLOROETHENE	20	3900
TOLUENE	20	U
CHLOROBENZENE	20	U
ETHYLBENZENE	20	U
STYRENE	20	U
TOTAL XYLENES	20	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	81 %
BFB	108 %
TOLUENE-D6	95 %

U indicates the compound was analyzed for but was not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-001

VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKEED 86-106-022
SAMPLE I.D.: B-1-MW1-1
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-23-87
METHOD: EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION

* NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT.STD. *

ATI I.D.# 04304-002

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-8
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 20

DATE SAMPLED: 2-11-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-23-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	200	U
BROMOMETHANE	200	U
VINYL CHLORIDE	20	U
CHLOROETHANE	20	U
METHYLENE CHLORIDE	100	U
ACETONE	200	U
CARBON DISULFIDE	20	U
1,1-DICHLOROETHENE	20	U
1,1-DICHLOROETHANE	20	U
TRANS-1,2-DICHLOROETHENE	20	U
CHLOROFORM	20	U
1,2-DICHLOROETHANE	20	U
2-BUTANONE (MEK)	200	TR
1,1,1-TRICHLOROETHANE	20	U
CARBON TETRACHLORIDE	20	U
VINYL ACETATE	200	U
BROMODICHLOROMETHANE	20	U
1,1,2,2-TETRACHLOROETHANE	20	U
1,2-DICHLOROPROPANE	20	U
TRANS-1,3-DICHLOROPROPENE	20	U
TRICHLOROETHENE	20	1600
DIBROMOCHLOROMETHANE	20	U
1,1,2-TRICHLOROETHANE	20	U
BENZENE	20	U
CIS-1,3-DICHLOROPROPENE	20	U
2-CHLOROETHYLVINYLETHER	200	U
BROMOFORM	100	U
2-HEXANONE (MBK)	200	U
4-METHYL-2-PENTANONE (MIBK)	200	U
TETRACHLOROETHENE	20	12000
TOLUENE	20	U
CHLOROBENZENE	20	U
ETHYLBENZENE	20	U
STYRENE	20	U
TOTAL XYLENES	20	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	83 %
BFB	105 %
TOLUENE-D6	96 %

U indicates the compound was analyzed for but was not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-002

VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKEED 86-106-022
SAMPLE I.D.: B-1-MW1-8
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: 2-11-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-23-87
METHOD: EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION

* NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT.STD. *

ATI I.D.# 04304-RB 2/23

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: REAGENT BLANK
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 1

DATE SAMPLED: N/A
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-23-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	7
ACETONE	10	12
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	4
CHLOROBENZENE	1	U
ETHYLBENZENE	1	1
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	87 %
BFB	104 %
TOLUENE-D6	100 %

U indicates the compound was analyzed for but was not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-RB 2/23

VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKEED 86-106-022
SAMPLE I.D.: REAGENT BLANK
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: N/A
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-23-87
METHOD: EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION

* NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT.STD. *

ATI I.D.# 04304-003

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-2
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 10

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	100	U
BROMOMETHANE	100	U
VINYL CHLORIDE	10	U
CHLOROETHANE	10	U
METHYLENE CHLORIDE	50	U
ACETONE	100	U
CARBON DISULFIDE	10	U
1,1-DICHLOROETHENE	10	U
1,1-DICHLOROETHANE	10	U
TRANS-1,2-DICHLOROETHENE	10	U
CHLOROFORM	10	10
1,2-DICHLOROETHANE	10	U
2-BUTANONE (MEK)	100	TR
1,1,1-TRICHLOROETHANE	10	U
CARBON TETRACHLORIDE	10	U
VINYL ACETATE	100	U
BROMODICHLOROMETHANE	10	U
1,1,2,2-TETRACHLOROETHANE	10	U
1,2-DICHLOROPROPANE	10	U
TRANS-1,3-DICHLOROPROPENE	10	U
TRICHLOROETHENE	10	150
DIBROMOCHLOROMETHANE	10	U
1,1,2-TRICHLOROETHANE	10	U
BENZENE	10	U
CIS-1,3-DICHLOROPROPENE	10	U
2-CHLOROETHYLVINYLETHER	100	U
BROMOFORM	50	U
2-HEXANONE (MBK)	100	U
4-METHYL-2-PENTANONE (MIBK)	100	U
TETRACHLOROETHENE	10	1300
TOLUENE	10	U
CHLOROBENZENE	10	U
ETHYLBENZENE	10	20
STYRENE	10	U
TOTAL XYLENES	10	20

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	95 %
BFB	96 %
TOLUENE-D6	101 %

U indicates the compound was analyzed for but was not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-003

VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKEED 86-106-022
SAMPLE I.D.: B-1-MW1-2
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD: EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION

* NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT.STD. *

ATI I.D.# 04304-004

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-3
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 10

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	100	U
BROMOMETHANE	100	U
VINYL CHLORIDE	10	U
CHLOROETHANE	10	U
METHYLENE CHLORIDE	50	U
ACETONE	100	U
CARBON DISULFIDE	10	U
1,1-DICHLOROETHENE	10	U
1,1-DICHLOROETHANE	10	U
TRANS-1,2-DICHLOROETHENE	10	U
CHLOROFORM	10	U
1,2-DICHLOROETHANE	10	U
2-BUTANONE (MEK)	100	U
1,1,1-TRICHLOROETHANE	10	U
CARBON TETRACHLORIDE	10	U
VINYL ACETATE	100	U
BROMODICHLOROMETHANE	10	U
1,1,2,2-TETRACHLOROETHANE	10	U
1,2-DICHLOROPROPANE	10	U
TRANS-1,3-DICHLOROPROPENE	10	U
TRICHLOROETHENE	10	240
DIBROMOCHLOROMETHANE	10	U
1,1,2-TRICHLOROETHANE	10	U
BENZENE	10	U
CIS-1,3-DICHLOROPROPENE	10	U
2-CHLOROETHYLVINYLETHER	100	U
BROMOFORM	50	U
2-HEXANONE (MBK)	100	U
4-METHYL-2-PENTANONE (MIBK)	100	U
TETRACHLOROETHENE	10	1500
TOLUENE	10	U
CHLOROBENZENE	10	U
ETHYLBENZENE	10	10
STYRENE	10	U
TOTAL XYLENES	10	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	94 %
BFB	94 %
TOLUENE-D6	99 %

U indicates the compound was analyzed for but was not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-004

VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKEED 86-106-022
SAMPLE I.D.: B-1-MW1-3
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD: EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION

* NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT.STD. *

ATI I.D.# 04304-005

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-4
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 10

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	100	U
BROMOMETHANE	100	U
VINYL CHLORIDE	10	U
CHLOROETHANE	10	U
METHYLENE CHLORIDE	50	U
ACETONE	100	U
CARBON DISULFIDE	10	U
1,1-DICHLOROETHENE	10	U
1,1-DICHLOROETHANE	10	U
TRANS-1,2-DICHLOROETHENE	10	U
CHLOROFORM	10	U
1,2-DICHLOROETHANE	10	U
2-BUTANONE (MEK)	100	TR
1,1,1-TRICHLOROETHANE	10	U
CARBON TETRACHLORIDE	10	U
VINYL ACETATE	100	U
BROMODICHLOROMETHANE	10	U
1,1,2,2-TETRACHLOROETHANE	10	U
1,2-DICHLOROPROPANE	10	U
TRANS-1,3-DICHLOROPROPENE	10	U
TRICHLOROETHENE	10	570
DIBROMOCHLOROMETHANE	10	U
1,1,2-TRICHLOROETHANE	10	U
BENZENE	10	U
CIS-1,3-DICHLOROPROPENE	10	U
2-CHLOROETHYLVINYLETHER	100	U
BROMOFORM	50	U
2-HEXANONE (MBK)	100	U
4-METHYL-2-PENTANONE (MIBK)	100	U
TETRACHLOROETHENE	10	4300
TOLUENE	10	U
CHLOROBENZENE	10	U
ETHYLBENZENE	10	20
STYRENE	10	U
TOTAL XYLENES	10	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	93 %
BFB	95 %
TOLUENE-D6	100 %

U indicates the compound was analyzed for but was not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-005

VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKEED 86-106-022
SAMPLE I.D.: B-1-MW1-4
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD: EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION

* NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT.STD. *

ATI I.D.# 04304-006

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-5
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 10

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	100	U
BROMOMETHANE	100	U
VINYL CHLORIDE	10	U
CHLOROETHANE	10	U
METHYLENE CHLORIDE	50	U
ACETONE	100	U
CARBON DISULFIDE	10	U
1,1-DICHLOROETHENE	10	U
1,1-DICHLOROETHANE	10	U
TRANS-1,2-DICHLOROETHENE	10	U
CHLOROFORM	10	U
1,2-DICHLOROETHANE	10	U
2-BUTANONE (MEK)	100	U
1,1,1-TRICHLOROETHANE	10	U
CARBON TETRACHLORIDE	10	U
VINYL ACETATE	100	U
BROMODICHLOROMETHANE	10	U
1,1,2,2-TETRACHLOROETHANE	10	U
1,2-DICHLOROPROPANE	10	U
TRANS-1,3-DICHLOROPROPENE	10	U
TRICHLOROETHENE	10	350
DIBROMOCHLOROMETHANE	10	U
1,1,2-TRICHLOROETHANE	10	U
BENZENE	10	U
CIS-1,3-DICHLOROPROPENE	10	U
2-CHLOROETHYLVINYLETHER	100	U
BROMOFORM	50	U
2-HEXANONE (MBK)	100	U
4-METHYL-2-PENTANONE (MIBK)	100	U
TETRACHLOROETHENE	10	3000
TOLUENE	10	U
CHLOROBENZENE	10	U
ETHYLBENZENE	10	U
STYRENE	10	U
TOTAL XYLENES	10	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	89 %
BFB	104 %
TOLUENE-D6	99 %

U indicates the compound was analyzed for but was not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-006

VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKEED 86-106-022
SAMPLE I.D.: B-1-MW1-5
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD: EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN	976	100
TETRAHYDROFURAN	265	30

ATI I.D.# 04304-RB 2/24 P.M.

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: REAGENT BLANK
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 1

DATE SAMPLED: N/A
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87 p.m.
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	5
ACETONE	10	TR
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	20
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	TR
4-METHYL-2-PENTANONE (MIBK)	10	TR
TETRACHLOROETHENE	1	4
TOLUENE	1	3
CHLOROBENZENE	1	U
ETHYLBENZENE	1	1
STYRENE	1	1
TOTAL XYLENES	1	3

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	83 %
BFB	98 %
TOLUENE-D6	101 %

U indicates the compound was analyzed for but was not detected.
TR indicates the compound was detected at levels below the limit stated

ATI I.D.# 04304-RB 2/24 P.M.

VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKEED 86-106-022
SAMPLE I.D.: REAGENT BLANK
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: N/A
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87 p.m.
METHOD: EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION

* NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT.STD. *

ATI I.D.# 04304-007

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-6
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 10

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	100	U
BROMOMETHANE	100	U
VINYL CHLORIDE	10	U
CHLOROETHANE	10	U
METHYLENE CHLORIDE	50	U
ACETONE	100	U
CARBON DISULFIDE	10	U
1,1-DICHLOROETHENE	10	U
1,1-DICHLOROETHANE	10	U
TRANS-1,2-DICHLOROETHENE	10	U
CHLOROFORM	10	20
1,2-DICHLOROETHANE	10	U
2-BUTANONE (MEK)	100	TR
1,1,1-TRICHLOROETHANE	10	U
CARBON TETRACHLORIDE	10	U
VINYL ACETATE	100	U
BROMODICHLOROMETHANE	10	U
1,1,2,2-TETRACHLOROETHANE	10	U
1,2-DICHLOROPROPANE	10	U
TRANS-1,3-DICHLOROPROPENE	10	U
TRICHLOROETHENE	10	1600
DIBROMOCHLOROMETHANE	10	U
1,1,2-TRICHLOROETHANE	10	U
BENZENE	10	20
CIS-1,3-DICHLOROPROPENE	10	U
2-CHLOROETHYLVINYLETHER	100	U
BROMOFORM	50	U
2-HEXANONE (MBK)	100	TR
4-METHYL-2-PENTANONE (MIBK)	100	TR
TETRACHLOROETHENE	10	6700
TOLUENE	10	U
CHLOROBENZENE	10	U
ETHYLBENZENE	10	150
STYRENE	10	U
TOTAL XYLENES	10	180

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	103 %
BFB	89 %
TOLUENE-D6	104 %

U indicates the compound was analyzed for but was not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-007

VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKEED 86-106-022
SAMPLE I.D.: B-1-MW1-6
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD: EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
BRANCHED HYDROCARBON	301	100
BRANCHED HYDROCARBON	347	100
ORGANIC ACID	510	100
ORGANIC ACID	582	50

ATI I.D.# 04304-008

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-7
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 10

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	100	U
BROMOMETHANE	100	U
VINYL CHLORIDE	10	U
CHLOROETHANE	10	U
METHYLENE CHLORIDE	50	U
ACETONE	100	U
CARBON DISULFIDE	10	U
1,1-DICHLOROETHENE	10	U
1,1-DICHLOROETHANE	10	U
TRANS-1,2-DICHLOROETHENE	10	U
CHLOROFORM	10	20
1,2-DICHLOROETHANE	10	U
2-BUTANONE (MEK)	100	110
1,1,1-TRICHLOROETHANE	10	U
CARBON TETRACHLORIDE	10	U
VINYL ACETATE	100	U
BROMODICHLOROMETHANE	10	U
1,1,2,2-TETRACHLOROETHANE	10	U
1,2-DICHLOROPROPANE	10	U
TRANS-1,3-DICHLOROPROPENE	10	U
TRICHLOROETHENE	10	1400
DIBROMOCHLOROMETHANE	10	U
1,1,2-TRICHLOROETHANE	10	U
BENZENE	10	U
CIS-1,3-DICHLOROPROPENE	10	U
2-CHLOROETHYLVINYLETHER	100	U
BROMOFORM	50	U
2-HEXANONE (MBK)	100	U
4-METHYL-2-PENTANONE (MIBK)	100	U
TETRACHLOROETHENE	10	5700
TOLUENE	10	U
CHLOROBENZENE	10	U
ETHYLBENZENE	10	170
STYRENE	10	U
TOTAL XYLENES	10	200

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	106 %
BFB	92 %
TOLUENE-D6	102 %

U indicates the compound was analyzed for but was not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-008

VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKEED 86-106-022
SAMPLE I.D.: B-1-MW1-7
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD: EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN	977	300
ORGANIC ACID	511	200
ORGANIC ACID	583	100

ATI I.D.# 04304-RB 2/24

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: REAGENT BLANK
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 1

DATE SAMPLED: N/A
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	5
ACETONE	10	TR
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	7
TOLUENE	1	3
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	90 %
BFB	96 %
TOLUENE-D6	101 %

U indicates the compound was analyzed for but was not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-RB 2/24

VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKEED 86-106-022
SAMPLE I.D.: REAGENT BLANK
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: N/A
DATE RECEIVED: 2-11-87
DATE ANALYZED: 2-24-87
METHOD: EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION

* NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT.STD. *

ATI I.D.# 04304-001

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-1
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE EXTRACTED: 2-13-87
DATE ANALYZED: 3-05-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

ATI I.D.# 04304-002

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-8
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 2-11-87
DATE RECEIVED: 2-11-87
DATE EXTRACTED: 2-13-87
DATE ANALYZED: 3-06-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

ATI I.D.# 04304-RB 2/13

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: REAGENT BLANK
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: N/A
DATE RECEIVED: 2-11-87
DATE EXTRACTED: 2-13-87
DATE ANALYZED: 3-05-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

ATI I.D.# 04304-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-1
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 2

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE EXTRACTED: 2-13-87
DATE ANALYZED: 3-05-87
METHOD NO.: EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D.# 04304-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT: GREGG & ASSOC.
SAMPLE I.D.: B-1-MW1-1

PROJECT: LOCKHEED 86-106-022
UNITS: ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	60 %
2-FLUOROBIPHENYL	59 %
TERPHENYL	85 %
PHENOL-D5	53 %
2-FLUOROPHENOL	53 %
2,4,6-TRIBROMOPHENOL	90 %

U indicates the compound was analyzed for but not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-001

SEMI- VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-1
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: 2-10-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 3-05-87
METHOD NO.: EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN	745	30

ATI I.D.# 04304-002

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-8
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 2

DATE SAMPLED: 2-11-87
DATE RECEIVED: 2-11-87
DATE EXTRACTED: 2-13-87
DATE ANALYZED: 3-06-87
METHOD NO.: EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D.# 04304-002

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT: GREGG & ASSOC.
SAMPLE I.D.: B-1-MW1-8

PROJECT: LOCKHEED 86-106-022
UNITS: ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	37 %
2-FLUOROBIPHENYL	52 %
TERPHENYL	79 %
PHENOL-D5	53 %
2-FLUOROPHENOL	44 %
2,4,6-TRIBROMOPHENOL	45 %

U indicates the compound was analyzed for but not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-002

SEMI- VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW1-8
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: 2-11-87
DATE RECEIVED: 2-11-87
DATE ANALYZED: 3-06-87
METHOD NO.: EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN BRANCHED ALCOHOL	1739	8

ATI I.D.# 04304-RB 2/13

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: REAGENT BLANK
SAMPLE MATRIX: WATER
UNITS: ug/L
DILUTION FACTOR: 2

DATE SAMPLED: N/A
DATE RECEIVED: 2-11-87
DATE EXTRACTED: 2-13-87
DATE ANALYZED: 3-05-87
METHOD NO.: EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D.# 04304-RB 2/13

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT: GREGG & ASSOC. PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: REAGENT BLANK UNITS: ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	71 %
2-FLUOROBIPHENYL	58 %
TERPHENYL	79 %
PHENOL-D5	54 %
2-FLUOROPHENOL	62 %
2,4,6-TRIBROMOPHENOL	45 %

U indicates the compound was analyzed for but not detected.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.# 04304-RB 2/13

SEMI- VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: REAGENT BLANK
SAMPLE MATRIX: WATER
UNITS: ug/L

DATE SAMPLED: N/A
DATE RECEIVED: 2-11-87
DATE ANALYZED: 3-05-87
METHOD NO.: EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION

* NO NON-HSL COMPOUNDS FOUND > 10% OF NEAREST INT. STD.*

0834

AnalyticalTechnologies, Inc.
San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

Chain of Custody Record

DATE 2/11/87 PAGE 1 OF 1

CLIENT [illegible]
ADDRESS 18[illegible] Beach Blvd
Huntington Beach, CA 92647

PROJECT [illegible] 6-106-022

SAMPLERS (SIGNATURE) [illegible]

	SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX EPA 415	EPA 625	T. Phenols EPA 420.1	NO3	T. CN EPA 335.3			NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
001	B-1-MW1-1	2/10/87		B-1-MW1		X	X			X	X		X		X	X	X	X			10	
	B-1-MW1-2	2/10/87		"	X		X						X	X			X	X			8	
	B-1-MW1-3	2/10/87		"	X		X						X	X			X	X			8	
	B-1-MW1-4	2/10/87		"	X		X						X	X			X	X			8	
	B-1-MW1-5	2/10/87		"	X		X						X	X			X	X			8	
	B-1-MW1-6	2/10/87		"	X		X						X	X			X	X			8	
	B-1-MW1-7	2/10/87		"	X		X						X	X			X	X			8	
	B-1-MW1-8	2/11/87		"		X	X			X	X		X		X	X	X	X			10	
002																						

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature [illegible]	2/11/87	Signature [illegible]	2/11/87	Signature [illegible]	2/11/87	Signature	
Printed Name JEFF MARTIN	TIME 11:00 AM	Printed Name Ricardo Navarro	TIME 11:00 AM	Printed Name S. NAVARRO	TIME 7PM	Printed Name	TIME
Company Geotech Assoc		Company Redi Express		Company Redi Express		Company	
RELINQUISHED BY	**DATE**	**RECEIVED BY**	**DATE**	**RELINQUISHED BY**	**DATE**	**RECEIVED BY (laboratory)**	**DATE**
Signature		Signature		Signature		Signature Marian Van Dee	
Printed Name	TIME	Printed Name	TIME	Printed Name	TIME	Printed Name MARIAN Van Dee	TIME
Company		Company		Company		Analytical Technologies, Inc.	

TOTAL NUMBER OF CONTAINERS: 68

METHOD OF SHIPMENT: REDI - EXPRESS

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

DISTRIBUTION: WHITE, CANARY - ANALYTICAL TECHNOLOGIES, INC. • PINK - ORIGINATOR

0834

04304

Chain of Custody Record

Analytical Technologies, Inc.
San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

DATE _____ PAGE _____ OF _____

CLIENT _____
ADDRESS _____
PROJECT _____
SAMPLERS (SIGNATURE) _____

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX							NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature		Signature		Signature		Signature	
	TIME		TIME		TIME		TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Company		Company		Company		Company	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature		Signature		Signature		Signature	
	TIME		TIME		TIME		TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Cor		Company		Compa		Analytical Technologies, Inc.	

TOTAL NUMBER OF CONTAINERS

METHOD OF SHIPMENT

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

DISTRIBUTION: WHITE, CANARY - ANALYTICAL TECHNOLOGIES, INC. • PINK - ORIGINATOR

RECEIVED FEB 1 0 1987

AnalyticalTechnologies, Inc.
Corporate Offices 5550 Morehouse Drive
ATI I.D. 01202

February 10, 1987

Gregg & Associates
18351 Beach Blvd.
Huntington Beach, CA 92648

Project : LOCKHEED

Project No.: 86-106-022

Attention: Pat Keating

On January 9, 1986, Analytical Technologies, Inc. received seven (7) water samples for analysis. Seven (7) samples were analyzed for cyanide, total dissolved solids, sulfate, nitrate (as nitrogen), bicarbonate (as CaCO3), phosphate (as phosphorus), chloride, fluoride, calcium, manganese, sodium, bromide, potassium, electrical conductivity, and volatile organics. Five (5) samples were analyzed for the California Administrative Code metals and total organic carbons. Two (2) samples were analyzed for the Priority Pollutant Metals, total phenols, and base/neutral and acid extractables including pesticides and polychlorinated biphenyls.

The manganese, calcium, sodium, and potassium were analyzed using atomic emission spectroscopy/inductively coupled argon plasma in accordance with EPA method 6010. The nitrate (as nitrogen) and sulfate were done using autoanalyzer in accordance with EPA methods 353.1 and 375.2. The phosphate (as phosphorus) was analyzed by ion chromatography according to EPA method 300.0. The chloride and fluoride were analyzed in accordance with EPA methods 325.3 and 340.2. The bromide was analyzed by Standard Method 405. The electrical conductivity, total dissolved solids, and bicarbonate (as CaCO3) were analyzed in accordance with EPA methods 120.1, 160.1, and 310.1, respectively.

The metals zinc, nickel, chromium, copper, silver, molybdenum, cobalt, vanadium, beryllium, and barium were analyzed using atomic emission spectroscopy by inductively coupled argon plasma in accordance with EPA method 6010. The metals arsenic, cadmium, lead, antimony, selenium, and thallium were analyzed using atomic absorption graphite furnace in accordance with EPA methods outlined in the 7000 series. The mercury was analyzed using cold vapor atomic absorption technique in accordance with EPA method 7471.

The cyanide, and total phenols were analyzed in accordance with EPA methods 335.3 and 420.2, respectively.

The TOC was analyzed using Xertex/Dohrmann DC-80 carbon analyzer in accordance with EPA method 415.2.

The base/neutral and acid extractables including pesticides and polychlorinated biphenyls were analyzed using gas chromatography/ mass spectroscopy in accordance with EPA method 625. The volatile organics were analyzed using gas chromatography/mass spectroscopy in accordance with EPA method 624. Sample results have been corrected for constituents found in the reagent blank.

The results of these analyses and the quality control data are enclosed.

Marcilen Lindsey
Inorganics Supervisor

Richard M. Amano
Laboratory Manager

Note: The samples from this project will be disposed of 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.

ATI I.D. 01202

DATA SHEET

CLIENT :GREGG & ASSOCIATES
PROJECT:LOCKHEED 86-106-022
SAMPLE MATRIX:WATER

DATE SAMPLED:1-8-87
DATE RECEIVED:1-9-87
UNITS : mg/L

ATI SAMPLE I.D.	CLIENT SAMPLE I.D.	CYANIDE	TOTAL PHENOLS	TOTAL ORGANIC CARBON
-001	B-1-MW2-1	<0.01	<0.02	---
-002	B-1-MW2-3	<0.01	---	0.5
-003	B-1-MW2-4	<0.01	---	<0.5
-004	B-1-MW2-5	<0.01	---	<0.5
-005	B-1-MW2-6	<0.01	---	0.6
-006	B-1-MW2-7	<0.01	---	<0.5
-007	B-1-MW2-8	<0.01	<0.02	---

Technologies

ATI I.D. 01202

GENERAL MINERALS

CLIENT : GREGG & ASSOCIATES
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-9-87
SAMPLE MATRIX : WATER
UNITS : mg/L

PARAMETER	CLIENT I.D.	B-1-MW2-1	B-1-MW2-3	B-1-MW2-4	B-1-MW2-5
	ATI I.D.	-001	-002	-003	-004
TOTAL DISSOLVED SOLIDS		344	268	352	460
SULFATE		79.8	84.9	90.4	88.2
NITRATE (AS NITROGEN)		2.4	2.0	7.0	10.3
BICARBONATE (AS CaCO3)		181	174	225	227
PHOSPHATE (AS PHOSPHORUS)		<0.05	<0.05	<0.05	<0.05
CHLORIDE		17.8	17.4	31.6	35.2
FLUORIDE		0.6	0.6	0.5	0.5
CALCIUM		56.7	51.5	77.9	87.6
MANGANESE		0.01	0.14	0.06	0.04
SODIUM		33.8	32.1	34.2	33.5
BROMIDE		0.6	0.6	0.7	0.5
POTASSIUM		4.0	3.5	4.5	4.6
ELECTRICAL CONDUCTIVITY (umhos/cm)		482	468	662	718

PARAMETER	CLIENT I.D.	B-1-MW2-6	B-1-MW2-7	B-1-MW2-8
	ATI I.D.	-005	-006	-007
TOTAL DISSOLVED SOLIDS		450	436	448
SULFATE		99.0	72.9	92.3
NITRATE (AS NITROGEN)		10.3	6.4	8.2
BICARBONATE (AS CaCO3)		227	220	222
PHOSPHATE (AS PHOSPHORUS)		<0.05	<0.05	<0.05
CHLORIDE		35.2	28.1	31.7
FLUORIDE		0.5	0.5	0.5
CALCIUM		84.9	75.5	83.0
MANGANESE		0.04	0.04	0.05
SODIUM		39.9	34.0	33.4
BROMIDE		0.5	0.6	0.5
POTASSIUM		4.9	4.3	4.6
ELECTRICAL CONDUCTIVITY (umhos/cm)		724	644	674

Lab: 1 TMA Inc. REPORT Work Order # 87-01
Received: 01/12/87 Results by Sample

SAMPLE ID B-1 MW-2-2 VOA FRACTION 01F TEST CODE VOA 1 NAME Volatile Organics Analysis
Date & Time Collected not specified Category

VOLATILE ORGANIC RESULTS

COMPOUND	RESULT	DET LIMIT
benzene	ND	5
carbon tetrachloride	ND	5
chlorobenzene	ND	5
1,2-dichloroethane	ND	5
1,1,1-trichloroethane	ND	5
1,1-dichloroethane	ND	5
1,1,2-trichloroethane	ND	5
1,1,2,2-tetrachloroethane	ND	5
chloroethane	ND	10
2-chloroethylvinyl ether	ND	5
chloroform	ND	5
1,1-dichloroethylene	ND	5
1,2-trans-dichloroethylene	ND	5
1,2-dichloropropane	ND	5
cis-trans-1,3-dichloropropene	ND	5
ethylbenzene	ND	5
methylene chloride	ND	5
methyl chloride	ND	5
methyl bromide	ND	5
bromoform	ND	5
dichlorobromomethane	ND	5
chlorodibromomethane	ND	5
tetrachloroethylene	100	5
toluene	ND	5
trichloroethylene	9	5
vinyl chloride	ND	10

ANALYST JSC
DATE INJECTD 01/23/87
DILUTION FACTOR 1.00
VERIFIED BY MLB

Note: All results reported in ug/L unless otherwise specified
ND = Not detected at the specified levels

0834

TMA Inc REPORT Work Order # 87-01

Received: 01/12/87 Results by Sample

SAMPLE ID B-1 MW-2-2 BNA (2) FRACTION 01A TEST CODE BNAPW NAME BNA plus Pests GC/MS-Lvl

Date & Time Collected not specified Category

SEMI-VOLATILE ORGANIC RESULTS

COMPOUND	RESULT	DET LIMIT
n-nitrosod methylamine	ND	50
phenol	ND	10
aniline	ND	50
bis(2 chloroethyl)ether	ND	10
2-chlorophenol	ND	10
1,3-dichlorobenzene	ND	10
1,4-dichlorobenzene	ND	10
benzyl alcohol	ND	10
1,2-dichlorobenzene	ND	10
2-methylphenol	ND	10
bis(2-chloroisopropyl)ether	ND	10
4-methylphenol	ND	10
n-nitroso-di-n-propylamine	ND	10
hexachloroethane	ND	10
nitrobenzene	ND	10
isophorone	ND	10
2-nitrophenol	ND	10
2,4-dimethylphenol	ND	10
benzoic acid	ND	50
bis(2-chloroethoxy)methane	ND	10
2,4-dichlorophenol	ND	10
1,2,4-trichlorobenzene	ND	10
naphthalene	ND	10
4-chloroaniline	ND	10
hexachlorobutadiene	ND	10
4-chloro-3-methylphenol	ND	10
2-methylnaphthalene	ND	10
hexachlorocyclopentadiene	ND	10
2,4,6-trichlorophenol	ND	10
2,4,5-trichlorophenol	ND	10
2-chloronaphthalene	ND	10
2-nitroaniline	ND	50
dimethyl phthalate	ND	10
acenaphthylene	ND	10

COMPOUND	RESULT	DET LIMIT
3-nitroaniline	ND	10
acenaphthene	ND	10
2,4-dinitrophenol	ND	50
4-nitrophenol	ND	50
dibenzofuran	ND	10
2,6-dinitrotoluene	ND	10
2,4-dinitrotoluene	ND	10
diethylphthalate	ND	10
4-chlorophenyl-phenylether	ND	10
fluorene	ND	10
4-nitroaniline	ND	50
4,6-dinitro-2-methylphenol	ND	50
n-nitrosodiphenylamine	ND	10
4-bromophenyl-phenylether	ND	10
hexachlorobenzene	ND	10
pentachlorophenol	ND	10
phenanthrene	ND	10
anthracene	ND	10
di-n-butylphthalate	ND	10
fluoranthene	ND	10
benzidine	ND	50
pyrene	ND	10
butylbenzylphthalate	ND	10
3,3'-dichlorobenzidine	ND	20
benzo(a)anthracene	ND	10
bis(2-ethylhexyl)phthalate	ND	10
chrysene	ND	10
di-n-octyl phthalate	ND	10
benzo(b)fluoranthene	ND	10
benzo(k)fluoranthene	ND	10
benzo(a)pyrene	ND	10
indeno(1,2,3-cd)pyrene	ND	10
dibenz(a,h)anthracene	ND	10
benzo(g,h,i)perylene	ND	10

ND = Not detected at given limits. All units ug/L

0834

[illegible] Results of Sample [illegible]

[illegible] POSITION [illegible] BELOW [illegible]
Date / Time collected not specified [illegible]

Surrogate	Recovery
2-Fluorophenol	[illegible] %
Phenol-d5	[illegible] %
2-Chlorobenzene	[illegible] %
2-Fluorobiphenyl	[illegible] %
2,4,6-Tribromophenol	[illegible] %
Nitrobenzene-d5	[illegible] %

[illegible] [illegible]
Date Extracted [illegible]
Date Analyzed [illegible]
Dilution Factor 1.0
Verified by MLB

PESTICIDES	RESULT	PQL Limit
Aldrin	ND	100
Dieldrin	ND	100
Chlordane	ND	100
4,4'-DDT	ND	100
4,4'-DDE	ND	100
4,4'-DDD	ND	100
alpha-Endosulfan	ND	100
beta-Endosulfan	ND	100
Endosulfan sulfate	ND	100
Endrin	ND	100
Endrin aldehyde	ND	100
Heptachlor	ND	100
Heptachlor epoxide	ND	100
alpha-BHC	ND	[illegible]
beta-BHC	ND	[illegible]
gamma-BHC	ND	[illegible]
delta-BHC	ND	[illegible]
PCB-1016	ND	[illegible]
PCB-1221	ND	[illegible]
PCB-1232	ND	[illegible]
PCB-1242	ND	[illegible]
PCB-1248	ND	[illegible]
PCB-1254	ND	[illegible]
PCB-1260	ND	[illegible]

0 0 3 9 4

SAMPLE ID B-1 MW-2-2 Gen Minerals(2) SAMPLE # 01 FRACTIONS: B
Date & Time Collected not specified Category

B	0.11 mg/L	CA	55.9 mg/L	CL	19.6 mg/L	CO3	< 10. mg/L	COND	524. micromhos	FLUORI	0.6 mg/L
HCO3 mg/L as HCO3	243.	K	3.85 mg/L	MG	17.4 mg/L	NA	30.0 mg/L	PO4	11 mg/L	SO4	60 mg/L
TDS	346 mg/L										

SAMPLE ID B-1 MW-2-2 H2SO4/Phen NO3 SAMPLE # 01 FRACTIONS: D
Date & Time Collected not specified Category

NO3 N	0.3 mg/L	PHENOL	.004 mg/L

0834

Craig & Associates, Inc.

The sample of clear liquid was analyzed for the requested parameters in accordance with the "Methods for Chemical Analysis of Water and Wastes" US EPA 600/4-79-020

As per request of Mr. Ferol Kimble, various classical chemistry parameters were quickly checked--and in some cases re-run. Based upon the re-analyses and also upon good quality control mineral balance agreement, we support the original results reported for the anions and cations. The conductivity measurement appeared low. Even though it is known that the conductance changes with time, the sample was re-analyzed and was found to be 524 michomhos The manganese was requested after the first report was sent out and was subsequently sent out under IMA/ARLI work order 8702075 The manganese result has been included in the revised report for your convenience.

Table 1

Detection Limits for Metals in B-1 MS-2-2

Parameter	Detection Limit, mg/L
Silver	0.001
Arsenic	0.002
Beryllium	0.0001
Cadmium	0.0001
Chromium	0.001
Copper	0.001
Manganese	0.001
Mercury	0.001
Nickel	0.001
Lead	0.0002
Antimony	0.01
Selenium	0.002
Thallium	0.005
Zinc	0.01
Sodium	0.002
Potassium	0.01
Calcium	0.05

Geraghty & Associates, Inc.

Table 2

Classical Chemistry Detection Limits for Water Samples

Parameter	Detection Limit, mg/L
Bromide	0.05
Chloride	0.1
Cyanide	0.05
Carbonate	10.
Fluoride	0.1
Bicarbonate	10.
Nitrate	0.1
Phosphate	0.5
Phenol	0.002
Sulfate	10
Total dissolved solids	10.

Received: 01/12/87 NonReported work

STATION AND TEST CODES FOR WORK NOT REPORTED ELSEWHERE

[illegible]	:	3050	AS_SED	HG_P
[illegible]	:	LAE009		
[illegible]	:	0XBNAW		

T M A / A R L I

HAZARDOUS SUBSTANCE LIST (HSL)

Customer: Gregg & Associates Work Order #87-01-035

Sample ID: MW-2-2

Compound	ug/l
Acetone	40.*
Carbon Disulfide	< 5.
2-Butanone	< 10.
Vinyl Acetate	< 10.
4-Methyl-2-Pentanone	< 10.
2-Hexanone	< 10.
Styrene	< 5.
Total Xylenes	< 5.

*Dectection limit approximately: 10 ug/l

T M A / A R L I

Material Balance Report

Sample ID:B-1-MW2-2 Work Order #87-01-035

Results

Anions	mg/L	meq/L
Nitrate	0.3	0
Chloride	19.6	0.56
Sulfate	60.	1.25
Bicarbonate	243.	3.98
Carbonate	< 10.	0
	Total meq/L:	5.79

Cations	mg/L	meq/l
Sodium	30.	1.31
Potassium	3.85	0.10
Calcium	56.	2.79
Magnesium	17.	1.40
	Total meq/L:	5.60

Total Dissolved Solids: 346

Conductance: 524 micromhos

Q.C. Balance Calculations

Parameter	Predicted Range	Calculated
% Difference of Anion-Cation Total meq/L	0 - 5%	3.3%
Relation Between Total meq/L and 1/100 x Conductance	0 - 20%	8.3%
Relation Between TDS Divided by Conductance	50 - 75%	66 %

T M A / A R L I

TENTATIVELY IDENTIFIED COMPOUNDS
(Non-Priority Pollutants)

Customer: Gregg and Associates Work Order #87-01-035

1. Sample ID: MW2-2 (Volatiles & Semi-Volatiles)

Compound	Approximate Concentration, ug/L
None Detected	

Detection limit approximately: 10 ug/L

0834

RECEIVED FEB 0 4 1987

AnalyticalTechnologies, Inc.

Corporate Office: 5550 Morehouse Drive

ATI I.D. 00907

February 3, 1987

Gregg & Associates
18351 Beach Blvd.
Huntington Beach, CA 92648

Project : LOCKHEED

Project No.: 86-106-022

Attention: Pat Keating

On January 8, 1986, Analytical Technologies, Inc. received six (6) water samples for analysis. Six (6) samples were analyzed for cyanide, total dissolved solids, sulfate, nitrate (as nitrogen), bicarbonate (as CaCO3), phosphate (as phosphorus), chloride, fluoride, calcium, manganese, sodium, bromide, potassium, electrical conductivity, and volatile organics. Four (4) samples were analyzed for the California Administrative Code metals and total organic carbons. Two (2) samples were analyzed for the Priority Pollutant Metals, total phenols, and base/neutral and acid extractables including pesticides and polychlorinated biphenyls.

The manganese, calcium, sodium, and potassium were analyzed using atomic emission spectroscopy/inductively coupled argon plasma in accordance with EPA method 6010. The nitrate (as nitrogen), and sulfate were done using autoanalyzer in accordance with EPA methods 353.1 and 375.2. The phosphate (as phosphorus), chloride, and bromide were analyzed by ion chromatography according to EPA method 300.0. The fluoride was analyzed in accordance with EPA method 340.1. The electrical conductivity, total dissolved solids, and bicarbonate (as CaCO3) were analyzed in accordance with EPA methods 120.1, 160.1, and 310.1,respectively.

The metals zinc, nickel, chromium, copper, silver, molybdenum, cobalt, vanadium, beryllium, and barium were analyzed using atomic emission spectroscopy by inductively coupled argon plasma in accordance with EPA method 6010. The metals arsenic, cadmium, lead, antimony, selenium, and thallium were analyzed using atomic absorption graphite furnace in accordance with EPA methods

The cyanide, and total phenols were analyzed in accordance with EPA methods 335.3 and 420.2, respectively.

The TOC was analyzed using Xertex/Dohrmann DC-80 carbon analyzer in accordance with EPA method 415.2.

The base/neutral and acid extractables including pesticides and polychlorinated biphenyls were analyzed using gas chromatography/ mass spectroscopy in accordance with EPA method 625. The volatile organics were analyzed using gas chromatography/mass spectroscopy in accordance with EPA method 624. Sample results have been corrected for constituents found in the reagent blank.

The results of these analyses and the quality control data are enclosed.

Marcilen Lindsey
Inorganics Supervisor

Richard M. Amano
Laboratory Manager

Note: The samples from this project will be disposed of 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.

Technologies,

ATI I.D. 00907

DATA SHEET

CLIENT :GREGG & ASSOCIATES
PROJECT:LOCKHEED 86-106-022
SAMPLE MATRIX:WATER

DATE SAMPLED:1-7-87
DATE RECEIVED:1-8-87
UNITS : mg/L

ATI SAMPLE I.D.	CLIENT SAMPLE I.D.	CYANIDE	TOTAL PHENOLS	TOTAL ORGANIC CARBON
-001	B-1-MW3-2	<0.01	<0.02	---
-002	B-1-MW3-5	<0.01	<0.02	---
-003	B-1-MW3-1	<0.01	---	<0.5
-004	B-1-MW3-3	<0.01	---	<0.5
-005	B-1-MW3-4	<0.01	---	<0.5
-006	B-1-MW3-6	<0.01	---	<0.5

GENERAL MINERALS

CLIENT : GREGG & ASSOCIATES
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-8-87
SAMPLE MATRIX : WATER
UNITS : mg/L

PARAMETER	CLIENT I.D. B-1-MW3-2	B-1-MW3-5	B-1-MW3-1	B-1-MW3-3
	ATI I.D. -001	-002	-003	-004
TOTAL DISSOLVED SOLIDS	460	510	290	470
SULFATE	58.6	70.6	69.6	87.1
NITRATE (AS NITROGEN)	5.4	8.7	0.57	5.9
BICARBONATE (AS CaCO3)	205	200	161	211
PHOSPHATE (AS PHOSPHORUS)	0.09	0.09	<0.05	0.08
CHLORIDE	26.5	34.9	14.1	21.6
FLUORIDE	0.7	0.6	0.6	0.6
CALCIUM	68.8	72.9	41.6	74.7
MANGANESE	0.04	0.29	0.09	0.04
SODIUM	36.9	39.8	34.1	40.1
BROMIDE	0.7	0.6	0.5	0.6
POTASSIUM	4.3	4.9	3.5	4.4
ELECTRICAL CONDUCTIVITY (umhos/cm)	587	658	416	659

PARAMETER	CLIENT I.D. B-1-MW3-4	B-1-MW3-6
	ATI I.D. -005	-006
TOTAL DISSOLVED SOLIDS	460	490
SULFATE	72.0	72.1
NITRATE (AS NITROGEN)	5.8	5.8
BICARBONATE (AS CaCO3)	208	208
PHOSPHATE (AS PHOSPHORUS)	0.08	0.07
CHLORIDE	33.8	33.6
FLUORIDE	0.6	0.6
CALCIUM	72.4	72.1
MANGANESE	0.04	0.04
SODIUM	39.9	38.1
BROMIDE	<0.5	0.7
POTASSIUM	4.4	4.3
ELECTRICAL CONDUCTIVITY (umhos/cm)	625	640

Technologies,

ATI I.D.00907

CLIENT :GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022

QUALITY CONTROL

UNITS:mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
CYANIDE	2-3-87	01202-003	<0.01	<0.01	N/A
TOTAL PHENOLS	1-19-87	00907-001	<0.02	<0.02	N/A
TOTAL ORGANIC CARBON	1-22-87	00907-004	<0.5	<0.5	N/A
TOTAL DISSOLVED SOLIDS	1-27-87	00911-001	10400	9700	7.0
SULFATE	1-30-87	00907-005	72.0	68.9	4.4
NITRATE (AS NITROGEN)	1-23-87	00907-001	5.4	5.5	-1.8
BICARBONATE (AS CaCO3)	1-29-87	00907-004	211	212	-0.5
PHOSPHATE (AS PHOSPHORUS)	1-28-87	00907-006	0.07	0.08	-13.3
CHLORIDE	1-28-87	00907-001	26.5	26.9	-1.5
FLUORIDE	1-21-87	00907-003	0.6	0.6	0.0
CALCIUM	1-27-87	00907-004	74.7	72.7	2.7
MANGANESE	1-27-87	00907-004	0.04	0.04	0.0
SODIUM	1-27-87	00907-004	40.1	39.5	1.5
BROMIDE	2-2-87	00907-001	0.7	0.8	-13.3
POTASSIUM	1-27-87	00907-004	4.4	4.6	-4.4
ELECTRICAL CONDUCTIVITY (umhos/cm)	1-27-87	00907-003	416	416	0.0

UNITS:mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% RECOVERY
CYANIDE	01202-003	0.10	0.10	100
TOTAL PHENOLS	00907-001	0.10	0.10	100
TOTAL ORGANIC CARBON	00907-004	22.7	20.0	114
TOTAL DISSOLVED SOLIDS	00911-001	N/A	N/A	N/A
SULFATE	00907-005	127	50	113
NITRATE (AS NITROGEN)	00907-001	23.2	20.0	88
BICARBONATE (AS CaCO3)	00907-004	N/A	N/A	N/A
PHOSPHATE (AS PHOSPHORUS)	00907-006	0.98	1.00	90
CHLORIDE	00907-001	44.0	17.0	98
FLUORIDE	00907-003	6.0	5.0	108
CALCIUM	00907-004	172	100	99
MANGANESE	00907-004	9.94	10.0	99
SODIUM	00907-004	297	250	103
BROMIDE	00907-001	1.9	2.0	58
POTASSIUM	00907-004	26	20	108
ELECTRICAL CONDUCTIVITY (umhos/cm)	00907-003	N/A	N/A	N/A

ATI I.D. 00907

PRIORITY POLLUTANT METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-106-022

DATE RECEIVED: 1-8-87
SAMPLE MATRIX :WATER
UNITS : mg/L

PARAMETER	CLIENT I.D.	B-1-MW3-2	B-1-MW3-5
	ATI I.D.	-001	-002
ZINC		0.06	0.02
NICKEL		0.02	0.03
CHROMIUM		0.01	0.01
COPPER		<0.02	<0.02
SILVER		<0.05	<0.05
BERYLLIUM		<0.02	<0.02
ARSENIC		0.002	<0.002
CADMIUM		<0.0004	0.0013
LEAD		<0.002	<0.002
ANTIMONY		<0.002	<0.002
SELENIUM		<0.002	<0.002
THALLIUM		<0.002	<0.002
MERCURY		<0.0005	<0.0005

Technologies,

ATI I.D. 00907

CALIFORNIA ADMINISTRATIVE CODE
METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-8-87
SAMPLE MATRIX :WATER
UNITS : mg/L

CLIENT I.D. / PARAMETER	B-1-MW3-1	B-1-MW3-3	B-1-MW3-4	B-1-MW3-6
ATI I.D.	-003	-004	-005	-006
ZINC	0.02	0.03	0.02	0.03
NICKEL	0.04	0.01	0.01	0.01
CHROMIUM	0.02	0.01	<0.01	<0.01
COPPER	<0.02	<0.02	<0.02	<0.02
SILVER	<0.05	<0.05	<0.05	<0.05
MOLYBDENUM	0.03	<0.02	0.02	<0.02
COBALT	<0.02	<0.02	<0.02	<0.02
VANADIUM	0.01	<0.01	<0.01	<0.01
BERYLLIUM	<0.02	<0.02	<0.02	<0.02
BARIUM	0.06	0.13	0.12	0.12
ARSENIC	<0.002	<0.002	<0.002	<0.002
CADMIUM	<0.0004	<0.0004	<0.0004	<0.0004
LEAD	<0.002	<0.002	<0.002	<0.002
ANTIMONY	<0.002	<0.002	<0.002	<0.002
SELENIUM	0.002	<0.002	<0.002	<0.002
THALLIUM	<0.002	<0.002	<0.002	<0.002
MERCURY	<0.0005	<0.0005	<0.0005	<0.0005

Analytical Technologies, Inc.

C NT : GREGG & ASSOC. ATI I.D. 00907
JECT:LOCKHEED 86-106-022

METALS
QUALITY CONTROL

UNITS:mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
ZINC	1-27-87	00907-004	0.03	0.03	0.0
NICKEL	1-27-87	00907-004	0.01	0.03	N/A
CHROMIUM	1-27-87	00907-004	0.01	0.01	0.0
COPPER	1-27-87	00907-004	<0.02	<0.02	N/A
SILVER	1-27-87	00907-004	<0.05	<0.05	N/A
MOLYBDENUM	1-27-87	00907-004	0.02	0.02	0.0
COBALT	1-27-87	00907-004	<0.02	<0.02	N/A
VANADIUM	1-27-87	00907-004	<0.01	<0.01	N/A
BERYLLIUM	1-27-87	00907-004	<0.02	<0.02	N/A
BARIUM	1-27-87	00907-004	0.13	0.12	8.0
ARSENIC	1-26-87	00907-001	<0.002	<0.002	N/A
CADMIUM	1-16-87	00907-003	<0.0004	<0.0004	N/A
LEAD	1-16-87	00907-003	<0.002	<0.002	N/A
ANTIMONY	1-15-87	00907-003	<0.002	<0.002	N/A
SELENIUM	1-19-87	00907-001	<0.002	<0.002	N/A
THALLIUM	1-20-87	00907-001	<0.002	<0.002	N/A
MERCURY	1-24-87	00907-006	<0.0005	<0.0005	N/A

UNITS:mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% REC.
ZINC	00907-004	4.79	5.0	95
NICKEL	00907-004	4.69	5.0	93
CHROMIUM	00907-004	4.92	5.0	98
COPPER	00907-004	4.80	5.0	96
SILVER	00907-004	4.24	5.0	85
MOLYBDENUM	00907-004	4.65	5.0	93
COBALT	00907-004	4.81	5.0	96
VANADIUM	00907-004	4.83	5.0	97
BERYLLIUM	00907-004	4.88	5.0	98
BARIUM	00907-004	4.97	5.0	97
ARSENIC	00907-001	0.048	0.050	96
CADMIUM	00907-003	0.0064	0.0060	107
LEAD	00907-003	0.080	0.05	96
ANTIMONY	00907-003	0.056	0.05	112
SELENIUM	00907-001	0.050	0.05	100
THALLIUM	00907-001	0.038	0.050	76
MERCURY	00907-006	0.0041	0.0050	82

Technologies,

ATI I.D. 00907-001

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW3-2
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-7-87
DATE RECEIVED :1-8-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	2
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	16
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	82 %
BFB	114 %
TOLUENE-D6	93 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent b.ank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 00907-002

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW3-5
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-7-87
DATE RECEIVED :1-8-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	270
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	610
TOLUENE	1	2
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	98 %
BFB	111 %
TOLUENE-D6	94 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW3-1
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-7-87
DATE RECEIVED :1-8-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	1
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	5
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	100 %
BFB	112 %
TOLUENE-D6	93 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00907-004

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW3-3
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-7-87
DATE RECEIVED :1-8-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	3
TOLUENE	1	1
CHLOROBENZENE	1	1
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	15

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	98 %
BFB	112 %
TOLUENE-D6	92 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 00907-004

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:B-1-MW3-3
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:1-7-87
DATE RECEIVED : 1-8-87
DATE ANALYZED:1-13-87
METHOD : EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN	973	10
BRANCHED HYDROCARBON	797	10
OCTANE	867	20
TRIMETHYLCYCLOHEXANE ISOMER	785	10
BRANCHED HYDROCARBON	814	5

Technologies,

ATI I.D. 00907-005

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW3-4
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-7-87
DATE RECEIVED :1-8-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	2
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	15
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	99 %
BFB	111 %
TOLUENE-D6	90 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 00907-005

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:B-1-MW3-4
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:1-7-87
DATE RECEIVED : 1-8-87
DATE ANALYZED:1-13-87
METHOD : EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN	1087	20
BRANCHED HYDROCARBON	726	40

Analytical Technologies, Inc.

ATI I.D. 00907-006

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW3-6
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-7-87
DATE RECEIVED :1-8-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	4
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	16
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	99 %
BFB	106 %
TOLUENE-D6	88 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00907-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED :N/A
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	6
ACETONE	10	TR
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	8
TOLUENE	1	4
CHLOROBENZENE	1	U
ETHYL BENZENE	1	2
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	100 %
BFB	98 %
TOLUENE-D6	112 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

0834

ATI I.D. 00907-RB

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:ATI REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:NA/
DATE RECEIVED : N/A
DATE ANALYZED:1-13-87
METHOD : EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN HYDROCARBON	1086	40
UNKNOWN HYDROCARBON	757	10

Technologies.

ATI I.D. 00907-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :B-1-MW3-2
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-7-87
DATE RECEIVED :1-8-87
DATE EXTRACTED:1-13-87
DATE ANALYZED:1-27-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

Technologies

ATI I.D. 00907-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC.
SAMPLE I.D. :B-1-MW3-2

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	62 %
2-FLUOROBIPHENYL	70 %
TERPHENYL	96 %
PHENOL-D5	49 %
2-FLUOROPHENOL	72 %
2,4,6-TRIBROMOPHENOL	61 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D.01202

CLIENT :GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022

QUALITY CONTROL

UNITS:mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
CYANIDE	2-3-87	01202-003	<0.01	<0.01	N/A
TOTAL PHENOLS	1-19-87	00802-001	<0.02	<0.02	N/A
TOTAL ORGANIC CARBON	1-22-87	01202-006	<0.5	<0.5	N/A
TOTAL DISSOLVED SOLIDS	2-3-87	01202-006	436	408	6.6
SULFATE	1-30-87	00907-005	72.0	68.9	4.4
NITRATE (AS NITROGEN)	2-6-87	02006-002	0.48	0.47	2.1
BICARBONATE (AS CaCO3)	1-29-87	00907-004	211	212	0.5
PHOSPHATE (AS PHOSPHORUS)	1-28-87	01202-003	<0.05	<0.05	N/A
CHLORIDE	1-28-87	01202-005	35.2	35.4	0.6
FLUORIDE	2-4-87	09269-001	2.1	2.1	0.0
CALCIUM	1-27-87	00907-004	74.7	72.7	2.7
MANGANESE	1-27-87	00907-004	0.04	0.04	0.0
SODIUM	1-27-87	00907-004	40.1	39.5	1.5
BROMIDE	2-2-87	01202-002	0.6	0.5	18.2
POTASSIUM	1-27-87	00907-004	4.4	4.6	4.4
ELECTRICAL CONDUCTIVITY (umhos/cm)	1-27-87	00907-003	416	416	0.0

UNITS:mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% RECOVERY
CYANIDE	01202-003	0.10	0.10	100.00
TOTAL PHENOLS	00802-001	0.10	0.10	100
TOTAL ORGANIC CARBON	01202-006	23.7	20.0	118
TOTAL DISSOLVED SOLIDS	N/A	N/A	N/A	N/A
SULFATE	00907-005	127	50	113
NITRATE (AS NITROGEN)	02006-002	1.1	0.50	125
BICARBONATE (AS CaCO3)	00907-004	N/A	N/A	N/A
PHOSPHATE (AS PHOSPHORUS)	01202-003	0.98	1.00	98
CHLORIDE	01202-005	53.5	17.0	102
FLUORIDE	09269-001	2.6	0.5	100
CALCIUM	00907-004	172	100	99
MANGANESE	00907-004	9.94	10.0	99
SODIUM	00907-004	297	250	103
ROMIDE	01202-002	1.4	2.0	42
POTASSIUM	00907-004	26	20	108
ELECTRICAL CONDUCTIVITY (umhos/cm)	00907-003	N/A	N/A	N/A

ATI I.D. 01202

PRIORITY POLLUTANT
METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED: 1-9-87
SAMPLE MATRIX :WATER
UNITS : mg/L

PARAMETER	CLIENT I.D.	B-1-MW2-1	B-1-MW2-8
	ATI I.D.	-001	-007
ZINC		0.02	0.02
NICKEL		<0.01	<0.01
CHROMIUM		0.01	0.01
COPPER		<0.02	<0.02
SILVER		<0.05	<0.05
BERYLLIUM		<0.02	<0.02
ARSENIC		0.002	<0.002
CADMIUM		<0.0004	0.0013
LEAD		<0.002	0.002
ANTIMONY		<0.002	<0.002
SELENIUM		<0.002	<0.002
THALLIUM		<0.002	<0.002
MERCURY		<0.0005	<0.0005

ATI I.D. 01202

CALIFORNIA ADMINISTRATIVE CODE
METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-9-87
SAMPLE MATRIX :WATER
UNITS : mg/L

CLIENT I.D.	B-1-MW2-3	B-1-MW2-4	B-1-MW2-5	B-1-MW2-6	B-1-MW2-7
PARAMETER					
ATI I.D.	-002	-003	-004	-005	-006
ZINC	0.02	0.03	0.03	0.02	0.03
NICKEL	0.03	0.01	<0.01	0.01	<0.01
CHROMIUM	0.01	0.01	0.01	0.01	<0.01
COPPER	<0.02	<0.02	<0.02	<0.02	<0.02
SILVER	<0.05	<0.05	<0.05	<0.05	<0.05
MOLYBDENUM	0.03	0.03	0.03	0.03	0.02
COBALT	<0.02	<0.02	<0.02	<0.02	<0.02
VANADIUM	<0.01	<0.01	<0.01	<0.01	<0.01
BERYLLIUM	<0.02	<0.02	<0.02	<0.02	<0.02
BARIUM	0.06	0.11	0.13	0.12	0.11
ARSENIC	<0.002	<0.002	<0.002	<0.002	<0.002
CADMIUM	0.0008	<0.0004	<0.0004	<0.0004	<0.0004
LEAD	0.019	<0.002	<0.002	<0.002	<0.002
ANTIMONY	<0.002	<0.002	<0.002	<0.002	<0.002
SELENIUM	<0.002	<0.002	<0.002	<0.002	<0.002
THALLIUM	<0.002	<0.002	<0.002	<0.002	<0.002
MERCURY	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

CLIENT : GREGG & ASSOC. ATI I.D. 01202
PROJECT: LOCKHEED 86-106-022

METALS
QUALITY CONTROL

UNITS: mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
ZINC	1-27-87	00907-004	0.03	0.03	0.0
NICKEL	1-27-87	00907-004	0.01	0.03	N/A
CHROMIUM	1-27-87	00907-004	0.01	0.01	0.0
COPPER	1-27-87	00907-004	<0.02	<0.02	N/A
SILVER	1-27-87	00907-004	<0.05	<0.05	N/A
MOLYBDENUM	1-27-87	00907-004	0.02	0.02	0.0
COBALT	1-27-87	00907-004	<0.02	<0.02	N/A
VANADIUM	1-27-87	00907-004	<0.01	<0.01	N/A
BERYLLIUM	1-27-87	00907-004	<0.02	<0.02	N/A
BARIUM	1-27-87	00907-004	0.13	0.12	8.0
ARSENIC	1-26-87	01202-007	<0.002	<0.002	N/A
CADMIUM	1-16-87	01202-004	<0.0004	<0.0004	N/A
LEAD	1-16-87	01202-004	<0.002	<0.002	N/A
ANTIMONY	1-15-87	00907-003	<0.002	<0.002	N/A
SELENIUM	1-19-87	01202-001	<0.002	<0.002	N/A
THALLIUM	1-20-87	01202-004	<0.002	<0.002	N/A
MERCURY	1-24-87	01202-006	<0.0005	<0.0005	N/A

UNITS: mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% REC.
ZINC	00907-004	4.79	5.0	95
NICKEL	00907-004	4.69	5.0	93
CHROMIUM	00907-004	4.92	5.0	98
COPPER	00907-004	4.80	5.0	96
SILVER	00907-004	4.24	5.0	85
MOLYBDENUM	00907-004	4.65	5.0	93
COBALT	00907-004	4.81	5.0	96
VANADIUM	00907-004	4.83	5.0	97
BERYLLIUM	00907-004	4.88	5.0	98
BARIUM	00907-004	4.97	5.0	97
ARSENIC	01202-007	0.047	0.050	94
CADMIUM	01202-004	0.0063	0.0060	105
LEAD	01202-004	0.460	0.05	92
ANTIMONY	00907-003	0.056	0.05	112
SELENIUM	01202-001	0.020	0.05	104
THALLIUM	01202-004	0.038	0.050	76
MERCURY	01202-006	0.0047	0.0050	94

ATI I.D. 01202-001

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW2-1
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-8-87
DATE RECEIVED :1-9-87
DATE ANALYZED:1-16-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	15
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	30
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	110
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	99 %
BFB	95 %
TOLUENE-D6	101 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01202-002

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW2-3
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-8-87
DATE RECEIVED :1-9-87
DATE ANALYZED:1-16-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	6
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	66
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	96 %
BFB	93 %
TOLUENE-D6	99 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01202-003

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW2-4
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-8-87
DATE RECEIVED :1-9-87
DATE ANALYZED:1-16-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	14
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	49
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	98 %
BFB	96 %
TOLUENE-D6	99 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01202-004

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 36-106-022
SAMPLE I.D. : B-1-MW2-5
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-8-87
DATE RECEIVED :1-9-87
DATE ANALYZED:1-16-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	I	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	110
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	590
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	98 %
BFB	93 %
TOLUENE-D6	102 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01202-005

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW2-6
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-8-87
DATE RECEIVED :1-9-87
DATE ANALYZED:1-16-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	1
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	120
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	610
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	101 %
BFB	94 %
TOLUENE-D6	97 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01202-006

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW2-7
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-8-87
DATE RECEIVED :1-9-87
DATE ANALYZED:1-19-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	2
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	2
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	250
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	990
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	102 %
BFB	85 %
TOLUENE-D6	95 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01202-007

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW2-8
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-8-87
DATE RECEIVED :1-9-87
DATE ANALYZED:1-16-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	90
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	500
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	99 %
BFB	96 %
TOLUENE-D6	97 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01202-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED :N/A
DATE ANALYZED:1-16-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	6
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	TR
4-METHYL-2-PENTANONE (MIBK)	10	TR
TETRACHLOROETHENE	1	U
TOLUENE	1	1
CHLOROBENZENE	1	U
ETHYL BENZENE	1	1
STYRENE	1	U
TOTAL XYLENES	1	2

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	100 %
BFB	95 %
TOLUENE-D6	100 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01202-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED :N/A
DATE ANALYZED:1-19-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	7
ACETONE	10	10
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	1
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	2
CHLOROBENZENE	1	U
ETHYL BENZENE	1	2
STYRENE	1	2
TOTAL XYLENES	1	2

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	99 %
BFB	92 %
TOLUENE-D6	103 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01202-RB

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.: ATI REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:1-8-87
DATE RECEIVED : 1-9-87
DATE ANALYZED:1-16-87
METHOD : EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
HEXANE	565	2

ATI I.D. 01202-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :B-1-MW2-1
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-8-87
DATE RECEIVED :1-9-87
DATE EXTRACTED:1-13-87
DATE ANALYZED:1-27-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 01202-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC.
SAMPLE I.D. :B-1-MW2-1

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	62 %
2-FLUOROBIPHENYL	64 %
TERPHENYL	84 %
PHENOL-D5	48 %
2-FLUOROPHENOL	64 %
2,4,6-TRIBROMOPHENOL	57 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01202-001

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW2-1
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:1-8-87
DATE RECEIVED : 1-9-87
DATE ANALYZED:1-27-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN HYDROCARBON	1320	10
PHTHALATE	2195	10

ATI I.D. 01202-001

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW2-1
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 1-8-87
DATE RECEIVED : 1-9-87
DATE EXTRACTED: 1-13-87
DATE ANALYZED: 1-27-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

ATI I.D. 01202-007

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :B-1-MW2-8
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-8-87
DATE RECEIVED :1-9-87
DATE EXTRACTED:1-13-87
DATE ANALYZED:1-27-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 01202-007

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC.
SAMPLE I.D. :B-1-MW2-8

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	22
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	70 %
2-FLUOROBIPHENYL	70 %
TERPHENYL	74 %
PHENOL-D5	50 %
2-FLUOROPHENOL	66 %
2,4,6-TRIBROMOPHENOL	52 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01202-007

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW2-8
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:1-8-87
DATE RECEIVED : 1-9-87
DATE ANALYZED:1-27-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
PHTHALATE	2190	50
PHTHALATE	2252	80
PHTHALATE	2205	80
PHTHALATE	2195	70
PHTHALATE	2176	50

ATI I.D. 01202-007

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW2-8
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 1-8-87
DATE RECEIVED : 1-9-87
DATE EXTRACTED: 1-13-87
DATE ANALYZED: 1-27-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

ATI I.D. 01202-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :N/A
DATE RECEIVED :N/A
DATE EXTRACTED:1-13-87
DATE ANALYZED:1-27-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 01202-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC. PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	74 %
2-FLUOROBIPHENYL	80 %
TERPHENYL	96 %
PHENOL-D5	55 %
2-FLUOROPHENOL	74 %
2,4,6-TRIBROMOPHENOL	74 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 01202-RB

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: ATI REAGENT BLANK
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: N/A
DATE RECEIVED : N/A
DATE EXTRACTED: 1-13-87
DATE ANALYZED: 1-27-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

Chain of Custody Record

AnalyticalTechnologies, Inc.
San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

12022

DATE 1/9/87 PAGE 1 OF 1

CLIENT: GREEN ASSOC
ADDRESS: 18351 BEACH BLVD, HUNTINGTON BCH, CA 92647
PROJECT: PALAC OUTSAUR
SAMPLERS (SIGNATURE): J. Martin

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX EPA 415	EPA 625	T. Phenols EPA 420.1	NO3	T. CN EPA 335.3			NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
B-1-MW2-1	1/8/87		B-1-MW2		X	X			X	X		X		X	X	X	X			9	
B-1-MW2-3	1/8/87		"	X		X						X	X			X	X			8	
B-1-MW2-4	1/8/87		"	X		X						X	X			X	X			8	
B-1-MW2-5	1/8/87		"	X		X						X	X			X	X			8	
B-1-MW2-6	1/8/87		"	X		X						X	X			X	X			8	
B-1-MW2-7	1/8/87		"	X		X						X	X			X	X			8	
B-1-MW2-8	1/8/87		"		X	X			X	X		X		X	X	X	X			9	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature: J. Martin	1/9/87	Signature: Ron Navarro	1/9/87	Signature: Ron Navarro	1/9/87	Signature:	
Printed Name: JEFF MARTIN	TIME: 10:00 AM	Printed Name: Ron Navarro	TIME: 10:00 AM	Printed Name: Ron Navarro	TIME: 7:55 PM	Printed Name:	TIME:
Company: GREEN ASSOC		Company: Rush-Express		Company: Rush Express		Company:	
RELINQUISHED BY	**DATE**	**RECEIVED BY**	**DATE**	**RELINQUISHED BY**	**DATE**	**RECEIVED BY (laboratory)**	**DATE**
Signature:		Signature:		Signature:		Signature:	
Printed Name:	TIME:	Printed Name:	TIME:	Printed Name:	TIME:	Printed Name:	TIME:
Company:		Company:		Company:		Analytical Technologies, Inc.	

TOTAL NUMBER OF CONTAINERS: 53

METHOD OF SHIPMENT: RUSH-EXPRESS

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS:

DISTRIBUTION: WHITE-CANARY-ANALYTICAL TECHNOLOGIES, INC. • PINK-ORIGINATOR

0034

0834

01202

AnalyticalTechnologies, Inc.

San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

Chain of Custody Record

DATE _____ PAGE _____ OF _____

CLIENT _____

ADDRESS _____

PROJECT _____

SAMPLERS (SIGNATURE) _____

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX	OTHER						NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature		Signature		Signature		Signature	
	TIME		TIME		TIME		TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Company		Company		Company		Company	
RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature		Signature		Signature		Signature	
	TIME		TIME		TIME		TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Com		Company		Compan		Analytical Technologies, Inc.	

TOTAL NUMBER OF CONTAINERS

METHOD OF SHIPMENT

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

DISTRIBUTION: WHITE, CANARY - A YTICAL TECHNOLOGIES, INC. • PINK - ORIGINATOR

TMA Inc REPORT Work Order # [illegible]

Received 03/12/87 03/12/87 15:47:04

RECEIVED MAR 1 3 1987

Jim Cate

CERTIFIED BY

CONTACT [illegible]

FROM Gregg & Associates Inc
TO 16161 Beach Blvd
Huntington Beach, CA 92647

ITEM Mr. Ferol Kimble

JOB GREGG ASSOC SAMPLES 1
COMPANY Gregg & Associates, Inc
SITE

PREPARED BY Thermo Analytical Inc
160 Taylor Street
Monrovia, CA 91016

ATTEN
PHONE 818-357-3217

This report is for the sole and exclusive use of the client to whom it is addressed. Samples not destroyed in testing are retained a maximum of thirty (30) days unless otherwise requested.

Revised Report

Previously Reported on 03/10/87
First Reported on 02/12/87

SAMPLE ID MW-2-2
TAKEN By client
BOXES By client
TYPE Clear Liquids
P O # Verbal - F. Kimble
MAV # 207118

SAMPLE IDENTIFICATION

[illegible]	MW-2-2	CN
[illegible]	MW-2-2	PP Metals
[illegible]	MW-2-2	VOA
[illegible]	MW-2-2	BNA (2)
[illegible]	MW-2-2	Gen Minerals(2)
[illegible]	MW-2-2	H2SO4/Phen NO3

TEST CODES and NAMES used on this report

AG	Silver	NO3 W	Nitrate (water)
AS	Arsenic	PB	Lead
BE	Berylium	PHENOL	Total Phenol - water
BNAPW	BNA plus Pests. GC/MS-Lv1	PO4	Phosphate
BR	Bromide	SB	Antimony
CA	Calcium	SE	Selenium
CD	Cadmium	SO4	Sulfate
CL	Chloride	TDS	Total Dissolved Solids
CN	Cyanide distillation	TL	Thallium
CO3	Carbonate	VOA 1	Volatile Organics Analysis
COND	Specific Conductance	ZN	Zinc
CR	Chromium		
CU	Copper		
FLUORI	Fluoride		
HCO3	Bicarbonate		
HG	Mercury		
K	Potassium		
MG	Magnesium		
MN	Manganese		
NA	Sodium		
NI	Nickel		

0834

Received: 01/12/87

Results by Sample

SAMPLE ID B-1 MW-2-2 CN SAMPLE # 01 FRACTIONS: E

Date & Time Collected not specified Category

CN	< .05 mg/L

SAMPLE ID B-1 MW-2-2 PP Metals SAMPLE # 01 FRACTIONS: C

Date & Time Collected not specified Category

[illegible]	< 0.001 mg/L	AS	0.003 mg/L	BE	< 0.0001 mg/L	CD	0.0007 mg/L	CR	0.0077 mg/L	CU	0.0073 mg/L
[illegible]	< 0.001 mg/L	MN	0.08 mg/L	NI	0.036 mg/L	PB	0.0003 mg/L	SB	< 0.01 mg/L	SE	0.003 mg/L
[illegible]	< 0.005 mg/L	ZN	0.02 mg/L								

0834

Technologies,

ATI I.D. 00907-001

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:B-1-MW3-2
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:1-7-87
DATE RECEIVED : 1-8-87
DATE ANALYZED:1-27-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
A HYDROCARBON	2156	10
ORGANIC ACID	1321	10

Technologies.

ATI I.D. 00907-001

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW3-2
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 1-7-87
DATE RECEIVED : 1-8-87
DATE EXTRACTED: 1-13-87
DATE ANALYZED: 1-27-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

Technologies,

ATI I.D. 00907-002

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :B-1-MW3-5
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-7-87
DATE RECEIVED :1-8-87
DATE EXTRACTED:1-13-87
DATE ANALYZED:1-27-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 00907-002

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC.
SAMPLE I.D. :B-1-MW3-5

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	60 %
2-FLUOROBIPHENYL	70 %
TERPHENYL	80 %
PHENOL-D5	45 %
2-FLUOROPHENOL	53 %
2,4,6-TRIBROMOPHENOL	50 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies,

ATI I.D. 00907-002

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:B-1-MW3-5
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:1-7-87
DATE RECEIVED : 1-8-87
DATE ANALYZED:1-27-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
ORGANIC ACID	1321	10
BRANCHED HYDROCARBON	2170	10
UNKNOWN HYDROCARBON	2156	10

Technologies,

ATI I.D. 00907-002 0834

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW3-5
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 1-7-87
DATE RECEIVED : 1-8-87
DATE EXTRACTED: 1-13-87
DATE ANALYZED: 1-27-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

Technologies,

ATI I.D. 00907-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :N/A
DATE RECEIVED :N/A
DATE EXTRACTED:1-13-87
DATE ANALYZED:1-27-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

Technologies,

ATI I.D. 00907-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC. PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	74 %
2-FLUOROBIPHENYL	80 %
TERPHENYL	96 %
PHENOL-D5	55 %
2-FLUOROPHENOL	74 %
2,4,6-TRIBROMOPHENOL	74 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Technologies.

ATI I.D. 00907-RB

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: ATI REAGENT BLANK
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: N/A
DATE RECEIVED : N/A
DATE EXTRACTED: 1-13-87
DATE ANALYZED: 1-22-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

0034

Chain of Custody Record

AnalyticalTechnologies,Inc.
San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

DATE 1/8/87 PAGE 1 OF 1

CLIENT GEOLOG ASSOC INC
ADDRESS [illegible] BLVD
[illegible] CA 92647
PROJECT [illegible]
SAMPLERS (SIGNATURE) [illegible]

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX EPA 415	EPA 625	EPA Phenols 420.1	NO3	EPA 335.3			NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
B-1-MW3-1	1/7/87		B-1-MW3	X		X						X	X			X	X			8	
B-1-MW3-2	1/7/87		"		X	X			X	X		X		X	X	X	X			9	
B-1-MW3-3	1/7/87		"	X		X						X	X			X	X			8	
B-1-MW3-4	1/7/87		"	X		X						X	X			X	X			8	
B-1-MW3-5	1/7/87		"		X	X			X	X		X		X	X	X	X			9	
B-1-MW3-6	1/7/87		"	X		X						X	X			X	X			8	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature [illegible]	1/8/87	Signature [illegible]	1/8/87	Signature [illegible]	1/8/87	Signature [illegible]	1/8/87
Printed Name JEFF MARTIN	TIME 12:00	Printed Name RON NAVARRO	TIME 12:00 pm	Printed Name S. SANABRA	TIME	Printed Name [illegible]	TIME
Company GEOLOG ASSOC		Company Redi-Express		Company Red. Express		Company [illegible]	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature		Signature		Signature		Signature	
Printed Name	TIME	Printed Name	TIME	Printed Name	TIME	Printed Name	TIME
Company		Company		Company		Analytical Technologies, Inc.	

TOTAL NUMBER OF CONTAINERS 50

METHOD OF SHIPMENT REDI-EXPRESS

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

DISTRIBUTION: WHITE, CANARY - ANALYTICAL TECHNOLOGIES, INC. • PINK - ORIGINATOR

0834

Chain of Custody Record

AnalyticalTechnologies,Inc.
San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

DATE _____ PAGE _____ OF _____

CLIENT _____
ADDRESS _____
PROJECT _____
SAMPLERS (SIGNATURE) _____

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX							NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature		Signature		Signature		Signature	
	TIME		TIME		TIME		TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Company		Company		Company		Company	
RELINQUISHED BY	**DATE**	**RECEIVED BY**	**DATE**	**RELINQUISHED BY**	**DATE**	**RECEIVED BY (laboratory)**	**DATE**
Signature		Signature		Signature		Signature	
	TIME		TIME		TIME		TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Company		Company		Company		Analytical Technologies, Inc.	

TOTAL NUMBER OF CONTAINERS _____

METHOD OF SHIPMENT _____

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS _____

DISTRIBUTION: WHITE, CANARY - ANALYTICAL TECHNOLOGIES, INC. • PINK - ORIGINATOR

00407

RECEIVED APR - 8 1987

0834

REVISED LETTER
ATI I.D. 35802

AnalyticalTechnologies, Inc.
Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

April 7, 1987

Gregg & Associates
18351 Beach Blvd.
Huntington Beach, CA 92648

Project : LOCKHEED

Project No.: 86-106-022

Attention: Pat Keating

On December 23, 1986, Analytical Technologies, Inc. received seven (7) water samples for analysis. Seven (7) samples were analyzed for cyanide, total dissolved solids, sulfate, nitrate (as nitrogen), bicarbonate (as CaCO3), phosphate (as phosphorus), chloride, fluoride, calcium, manganese, sodium, bromide, potassium, electrical conductivity, and volatile organics. Four (4) samples were analyzed for the California Administrative Code metals and total organic carbons. Three (3) samples were analyzed for the Priority Pollutant Metals, total phenols, and base/neutral and acid extractables including pesticides and polychlorinated biphenyls.

The manganese, calcium, sodium, and potassium were analyzed using atomic emission spectroscopy/inductively coupled argon plasma in accordance with EPA method 6010. The nitrate (as nitrogen), and sulfate were done using autoanalyzer in accordance with EPA methods 353.1 and 375.2. The phosphate (as phosphorus), chloride, and bromide were analyzed by ion chromatography according to EPA method 300.0. The fluoride was analyzed in accordance with EPA method 340.1. The electrical conductivity, total dissolved solids, and bicarbonate (as CaCo3) were analyzed in accordance with EPA methods 120.1, 160.1, and 310.1,respectively.

The metals zinc, nickel, chromium, copper, silver, molybdenum, cobalt, vanadium, beryllium, and barium were analyzed using atomic emission spectroscopy by inductively coupled argon plasma in accordance with EPA method 6010. The metals arsenic, cadmium, lead, antimony, selenium, and thallium were analyzed using atomic absorption graphite furnace in accordance with EPA methods outlined in the 7000 series. The mercury was analyzed using cold vapor atomic absorption technique in accordance with EPA method 7471.

The cyanide, and total phenols were analyzed in accordance with EPA methods 335.3 and 420.2, respectively.

The TOC was analyzed using Xertex/Dohrmann DC-80 carbon analyzer in accordance with EPA method 415.2.

The base/neutral and acid extractables including pesticides and polychlorinated biphenyls were analyzed using gas chromatography/ mass spectroscopy in accordance with EPA method 625. The volatile organics were analyzed using gas chromatography/mass spectroscopy in accordance with EPA method 624. Sample results have been corrected for constituents found in the reagent blank.

The results of these analyses and the quality control data are enclosed.

Marcilen Lindsey
Inorganics Supervisor

Richard M. Amano
Laboratory Manager

Note: The samples from this project will be disposed of 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.

ATI I.D. 35802

DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT : LOCKHEED 86-106-022

DATE RECEIVED : 12-23-86
SAMPLE MATRIX : WATER
UNITS : mg/L

ATI I.D.	CLIENT I.D.	CYANIDE	TOTAL PHENOLS	TOTAL ORGANIC CARBON
-001	B-1 MW4-2	<0.01	<0.02	---
-002	B-1 MW4-3	<0.01	<0.02	---
-003	B-1 MW4-6	<0.01	<0.02	---
-004	B-1 MW4-1	<0.01	---	<0.5
-005	B-1 MW4-4	<0.01	---	0.7
-006	B-1 MW4-5	<0.01	---	<0.5
-007	B-1 MW4-7	<0.01	---	<0.5

AnalyticalTechnologies,Inc.

ATI I.D. 35802

GENERAL MINERALS

CLIENT : GREGG & ASSOCIATES
PROJECT : LOCKHEED 86-106-022

DATE RECEIVED : 12-23-86
SAMPLE MATRIX : WATER
UNITS : mg/L

PARAMETER / CLIENT I.D.	B-1 MW4-2	B-1 MW4-3	B-1 MW4-6	B-1 MW4-1
ATI I.D.	-001	-002	-003	-004
TOTAL DISSOLVED SOLIDS	370	360	340	340
SULFATE	55.7	56.6	57.2	55.4
NITRATE (AS NITROGEN)	3.3	3.3	1.9	1.6
BICARBONATE (AS CaCO3)	163	163	154	155
PHOSPHATE (AS PHOSPHORUS)	<0.05	<0.05	<0.05	<0.05
CHLORIDE	19.6	19.6	23.5	20.9
FLUORIDE	0.6	0.6	0.6	0.6
CALCIUM	50.5	53.4	49.8	43.6
MANGANESE	0.02	0.02	0.01	0.01
SODIUM	36.4	35.9	35.6	35.5
BROMIDE	<0.5	<0.5	<0.5	<0.5
POTASSIUM	3.6	3.6	3.5	3.4
ELECTRICAL CONDUCTIVITY (umhos/cm)	506	509	477	476

PARAMETER / CLIENT I.D.	B-1 MW4-4	B-1 MW4-5	B-1 MW4-7
ATI I.D.	-005	-006	-007
TOTAL DISSOLVED SOLIDS	300	320	270
SULFATE	54.3	53.9	52.0
NITRATE (AS NITROGEN)	1.5	1.5	0.32
BICARBONATE (AS CaCO3)	155	155	156
PHOSPHATE (AS PHOSPHORUS)	<0.05	<0.05	<0.05
CHLORIDE	20.9	21.3	13.1
FLUORIDE	0.6	0.6	0.6
CALCIUM	51.1	51.0	47.4
MANGANESE	0.02	0.02	0.04
SODIUM	35.3	35.7	32.1
BROMIDE	<0.5	<0.5	<0.5
POTASSIUM	3.4	3.4	3.2
ELECTRICAL CONDUCTIVITY (umhos/cm)	476	477	411

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022

ATI I.D. 35802
UNITS: mg/L

QUALITY CONTROL

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
CYANIDE	01-12-87	35802-004	<0.01	<0.01	N/A
TOTAL PHENOLS	01-19-87	36501-003	<0.02	<0.02	N/A
TOTAL ORGANIC CARBON	01-13-87	35802-007	<0.5	<0.5	N/A
TOTAL DISSOLVED SOLIDS	01-06-87	35802-004	340	320	4
SULFATE	01-07-87	35802-006	53.9	53.2	1
NITRATE (AS NITROGEN)	01-13-87	35203-002	<0.05	<0.05	N/A
BICARBONATE (AS CaCO3)	01-20-87	35802-001	163	162	1
PHOSPHATE (AS PHOSPHORUS)	01-22-87	9249-001	<0.05	<0.05	N/A
CHLORIDE	01-26-87	35802-004	20.9	21.1	1
FLUORIDE	01-12-87	35802-007	0.6	0.6	0
CALCIUM	01-08-87	35802-001	50.5	53.8	6
MANGANESE	01-17-87	35802-001	0.02	0.02	0
SODIUM	01-27-87	35802-005	35.3	37.8	7
BROMIDE	1-22-87	35802-007	<0.5	<0.5	N/A
POTASSIUM	12-27-86	35802-005	3.4	4.0	16
ELECTRICAL CONDUCTIVITY (umhos/cm)	1-27-87	35802-001	506	508	0.4

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022

ATI I.D. 35802
UNITS: mg/L

QUALITY CONTROL
(CONT.)

PARAMETER	SAMPLE I.D	SPIKED SAMPLE	AMOUNT SPIKED	% RECOVERY
CYANIDE	35802-004	0.10	0.10	100
TOTAL PHENOLS	36501-003	0.10	0.10	100
TOTAL ORGANIC CARBON	35802-007	23.2	20.0	116
SULFATE	35802-007	128	80.0	94
NITRATE (AS NITROGEN)	35203-002	1.0	1.0	100
PHOSPHATE (AS PHOSPHORUS)	9249-001	0.54	0.50	108
CHLORIDE	35203-004	6.6	2.5	99
FLUORIDE	35802-007	5.0	5.0	88
CALCIUM	35802-001	1090	1000	104
MANGANESE	35802-001	9.76	10.0	97
SODIUM	35802-005	304	250	107
BROMIDE	35802-007	5.0	5.0	100
POTASSIUM	35802-005	25.0	20.0	107

ATI I.D. 35802

PRIORITY POLLUTANT
METALS

CLIENT : GREGG & ASSOCIATES
PROJECT : LOCKHEED 86-106-022

DATE RECEIVED : 12-23-86
SAMPLE MATRIX : WATER
UNITS : mg/L

PARAMETER	CLIENT I.D.	B-1 MW4-2	B-1 MW4-3	B-1 MW4-6
	ATI I.D.	-001	-002	-003
ZINC		<0.01	<0.01	<0.01
NICKEL		<0.01	<0.01	<0.01
CHROMIUM		<0.01	<0.01	<0.01
COPPER		<0.02	<0.02	<0.02
SILVER		<0.05	<0.05	<0.05
BERYLLIUM		<0.02	<0.02	<0.02
ARSENIC		<0.002	<0.002	<0.002
CADMIUM		<0.0004	<0.0004	<0.0004
LEAD		<0.002	<0.002	<0.002
ANTIMONY		<0.002	<0.002	<0.002
SELENIUM		<0.002	<0.002	<0.002
THALLIUM		<0.002	<0.002	<0.002
MERCURY		<0.0005	<0.0005	<0.0005

ATI I.D. 35802

CALIFORNIA ADMINISTRATIVE CODE
METALS

CLIENT : GREGG & ASSOCIATES
PROJECT : LOCKHEED 86-106-022

DATE RECEIVED : 12-23-86
SAMPLE MATRIX : WATER
UNITS : mg/L

PARAMETER / CLIENT I.D.	B-1 MW4-1	B-1 MW4-4	B-1 MW4-5	B-1 MW4-7
ATI I.D.	-004	-005	-006	-007
ZINC	<0.01	<0.01	<0.01	<0.01
NICKEL	<0.01	<0.01	<0.01	<0.01
CHROMIUM	<0.01	<0.01	<0.01	<0.01
COPPER	<0.02	<0.02	<0.02	<0.02
SILVER	<0.05	<0.05	<0.05	<0.05
MOLYBDENUM	<0.02	<0.02	<0.02	<0.02
COBALT	<0.02	<0.02	<0.02	<0.02
VANADIUM	<0.01	<0.01	<0.01	<0.01
BERYLLIUM	<0.02	<0.02	<0.02	<0.02
BARIUM	0.07	0.07	0.07	0.06
ARSENIC	<0.002	<0.002	<0.002	<0.002
CADMIUM	<0.0004	<0.0004	<0.0004	<0.0004
LEAD	<0.002	0.006	<0.002	<0.002
ANTIMONY	<0.002	<0.002	<0.002	<0.002
SELENIUM	<0.002	<0.002	<0.002	<0.002
THALLIUM	<0.002	<0.002	<0.002	<0.002
MERCURY	<0.0005	<0.0005	<0.0005	<0.0005

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022

ATI I.D. 35802
UNITS: mg/L

METALS
QUALITY CONTROL

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
ZINC	01-15-87	35802-007	<0.01	<0.01	N/A
NICKEL	01-15-87	35802-007	<0.01	<0.01	N/A
CHROMIUM	01-15-87	35802-007	<0.01	<0.01	N/A
COPPER	01-15-87	35802-007	<0.02	<0.02	N/A
SILVER	01-12-87	35802-001	<0.05	<0.05	N/A
MOLYBDENUM	01-15-87	35802-007	<0.02	<0.02	N/A
COBALT	01-15-87	35802-007	<0.02	<0.02	N/A
VANADIUM	01-15-87	35802-007	<0.01	<0.01	N/A
BERYLLIUM	01-16-87	35802-007	<0.01	<0.01	N/A
BARIUM	01-15-87	35802-007	0.06	0.06	0
ARSENIC	01-12-87	35802-007	<0.002	<0.002	N/A
CADMIUM	01-16-87	35802-007	<0.0004	<0.0004	N/A
LEAD	01-15-87	35802-001	<0.002	<0.002	N/A
ANTIMONY	01-15-87	35802-001	<0.002	<0.002	N/A
SELENIUM	01-13-87	35802-007	<0.002	<0.002	N/A
THALLIUM	01-20-87	35802-007	<0.002	<0.002	N/A
MERCURY	01-12-87	35807-001	<0.0005	<0.0005	N/A

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022

ATI I.D. 35802
UNITS: mg/L

METALS
QUALITY CONTROL
(CONT.)

PARAMETER	SAMPLE I.D	SPIKED SAMPLE	AMOUNT SPIKED	% RECOVERY
ZINC	35802-007	5.3	5.0	105
NICKEL	35802-007	5.2	5.0	104
CHROMIUM	35802-007	5.1	5.0	102
COPPER	35802-007	5.0	5.0	100
SILVER	35802-001	3.96	5.0	79
MOLYBDENUM	35802-007	5.16	5.0	103
COBALT	35802-007	5.20	5.0	104
VANADIUM	35802-007	4.93	5.0	99
BERYLLIUM	35802-007	5.1	5.0	102
BARIUM	35802-007	5.0	5.0	100
ARSENIC	35802-007	0.048	0.05	96
CADMIUM	35802-007	0.0063	0.006	105
LEAD	35802-001	0.044	0.05	88
ANTIMONY	35802-001	0.056	0.05	112
SELENIUM	35802-007	0.048	0.05	96
THALLIUM	35802-007	0.034	0.050	68
MERCURY	35807-001	0.0046	0.0050	92

ATI I.D. 35802-001

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW4-2
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-23-86
DATE RECEIVED : 12-23-86
DATE ANALYZED: 1-5-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	1
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	44
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	12
TOLUENE	1	4
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	99	%
BFB	101	%
TOLUENE-D6	99	%

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 35802-002

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW4-3
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-23-86
DATE RECEIVED : 12-23-86
DATE ANALYZED: 1-5-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	1
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	41
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	11
TOLUENE	1	4
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	100	%
BFB	101	%
TOLUENE-D6	96	%

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 35802-003

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW4-6
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-22-86
DATE RECEIVED : 12-23-86
DATE ANALYZED: 1-4-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	104	%
BFB	98	%
TOLUENE-D6	91	%

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 35802-004

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW4-1
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-23-86
DATE RECEIVED : 12-23-86
DATE ANALYZED: 1-4-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	3
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	2
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	100	%
BFB	100	%
TOLUENE-D6	94	%

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 35802-005

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW4-4
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-23-86
DATE RECEIVED : 12-23-86
DATE ANALYZED: 1-4-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	4
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	96	%
BFB	105	%
TOLUENE-D6	90	%

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 35802-006

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW4-5
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-23-86
DATE RECEIVED : 12-23-86
DATE ANALYZED: 1-4-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	5
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	104	%
BFB	98	%
TOLUENE-D6	90	%

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 35802-007

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW4-7
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-22-86
DATE RECEIVED : 12-23-86
DATE ANALYZED: 1-4-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	105	%
BFB	112	%
TOLUENE-D6	98	%

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 35802-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE ANALYZED: 1-4-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	13
ACETONE	10	TR
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	3
CHLOROBENZENE	1	U
ETHYLBENZENE	1	2
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	101	%
BFB	100	%
TOLUENE-D6	92	%

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 35802-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE ANALYZED: 1-5-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	5
ACETONE	10	TR
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	3
CHLOROBENZENE	1	U
ETHYLBENZENE	1	2
STYRENE	1	U
TOTAL XYLENES	1	1

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	93	%
BFB	99	%
TOLUENE-D6	106	%

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

ATI I.D. 35802-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : B-1 MW4-2
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED : 12-23-86
DATE RECEIVED : 12-23-86
DATE EXTRACTED: 1-5-87
DATE ANALYZED: 1-15-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 35802-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT : GREGG & ASSOCIATES
SAMPLE I.D. : B-1 MW4-2

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	58 %
2-FLUOROBIPHENYL	68 %
TERPHENYL	75 %
PHENOL-D5	71 %
2-FLUOROPHENOL	90 %
2,4,6-TRIBROMOPHENOL	107 %

U indicates the compound was analyzed for but was not detected.

ATI I.D. 35802-001

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG AND ASSOCIATES
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:B-1 MW-4-2
SAMPLE MATRIX :WATER
UNITS:ug/L

DATE SAMPLED:12-23-86
DATE RECEIVED : 12-23-86
DATE EXTRACTED:1-5-87
DATE ANALYZED:1-15-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
HYDROCARBON	1714	40
PHTHALATE	2240	2
PHTHALATE	2290	5

ATI I.D. 35802-001

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW4-2
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 12-23-86
DATE RECEIVED : 12-23-86
DATE EXTRACTED: 1-5-87
DATE ANALYZED: 1-15-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

ATI I.D. 35802-002

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT : GREGG & ASSOCIATES
SAMPLE I.D. : B-1 MW4-3

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	48 %
2-FLUOROBIPHENYL	68 %
TERPHENYL	76 %
PHENOL-D5	68 %
2-FLUOROPHENOL	93 %
2,4,6-TRIBROMOPHENOL	92 %

U indicates the compound was analyzed for but was not detected.

ATI I.D. 35802-002

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG AND ASSOCIATES
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:B-1 MW-4-3
SAMPLE MATRIX :WATER
UNITS:ug/L

DATE SAMPLED:12-23-86
DATE RECEIVED : 12-23-86
DATE EXTRACTED:1-5-87
DATE ANALYZED:1-15-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN	2167	10
PHTHALATE	2214	30
UNKNOWN	1869	40
ALKYNE	1657	200

ATI I.D. 35802-002

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW4-3
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 12-23-86
DATE RECEIVED : 12-23-86
DATE EXTRACTED: 1-5-87
DATE ANALYZED: 1-15-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

ATI I.D. 35802-003

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : B-1 MW4-6
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED : 12-22-86
DATE RECEIVED : 12-23-86
DATE EXTRACTED: 1-30-87
DATE ANALYZED: 4-6-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 35802-003

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT : GREGG & ASSOCIATES
SAMPLE I.D. : B-1 MW4-6

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	TR
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	64 %
2-FLUOROBIPHENYL	77 %
TERPHENYL	62 %
PHENOL-D5	52 %
2-FLUOROPHENOL	74 %
2,4,6-TRIBROMOPHENOL	37 %

U indicates the compound was analyzed for but was not detected.

ATI I.D. 35802-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED: 1-5-87
DATE ANALYZED: 1-15-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 35802-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT : GREGG & ASSOCIATES PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	TR
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	14
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	68 %
2-FLUOROBIPHENYL	60 %
TERPHENYL	96 %
PHENOL-D5	78 %
2-FLUOROPHENOL	94 %
2,4,6-TRIBROMOPHENOL	94 %

U indicates the compound was analyzed for but was not detected.

ATI I.D. 35802-RB

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG AND ASSOCIATES
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS:ug/L

DATE SAMPLED:N/A
DATE RECEIVED : N/A
DATE EXTRACTED:1-5-87
DATE ANALYZED:1-15-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
PHTHALATE	2168	20
PHTHALATE	2154	10
UNKNOWN	1277	10
PHTHALATE	2213	20
UNKNOWN	1890	5

ATI I.D. 35802-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED: 1-30-87
DATE ANALYZED: 2-3-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

ATI I.D. 35802-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT : GREGG & ASSOCIATES PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	81 %
2-FLUOROBIPHENYL	79 %
TERPHENYL	89 %
PHENOL-D5	46 %
2-FLUOROPHENOL	75 %
2,4,6-TRIBROMOPHENOL	47 %

U indicates the compound was analyzed for but was not detected.

ATI I.D. 35802-RB

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG AND ASSOCIATES
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS:ug/L

DATE SAMPLED:N/A
DATE RECEIVED : N/A
DATE EXTRACTED:1-30-87
DATE ANALYZED: 2-3-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
UNKNOWN BRANCHED HYDROCARBON	1314	10
UNKNOWN	331	6
UNKNOWN	1906	6
UNKNOWN	2161	10

AnalyticalTechnologies, Inc.
San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

Chain of Custody Record

DATE 12/23/86 PAGE 1 OF 1

CLIENT Chevron Assoc Inc
ADDRESS 1655 [illegible] Blvd, Suite L
Hawthorne Calif 92249
PROJECT Lockheed 86-106-022
SAMPLERS (SIGNATURE) [illegible]

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX	T. Phenols, Alk	Alk only	Cyanide				NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
B-1MW-4-1	12/23/86	9:50	Rubble	X		X						X	X		X	X				5	
B-1MW-4-2	"	8:40a	W-11 #		X	X			X			X		X		X				9	
B-1MW-4-3	"	8:24a	B-1MW-4		X	X			X			X		X		X				9	
B-1MW-4-4	"	7:30a		X		X						X	X		X	X				6	
B-1MW-4-5	"	7:18a		X		X						X	X		X	X				6	
B-1MW-4-6	12/22/86	5:40			X	X			X			X		X		X				7	
B-1MW-4-7	"	4:45		X		X						X	X		X	X				6	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature [illegible]	12/23/86	Signature Ron Navarro	12/23/86	Signature [illegible]	12/23	Signature	
Printed Name [illegible]	TIME 1:55	Printed Name Ron Navarro	TIME 1:55 pm	Printed Name SAMARCO	TIME 2:00	Printed Name	TIME
Company		Company Hall-Express		Company Hall Express		Company	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature		Signature		Signature		Signature	
Printed Name	TIME	Printed Name	TIME	Printed Name	TIME	Printed Name	TIME

TOTAL NUMBER OF CONTAINERS 59

METHOD OF SHIPMENT Hall Express

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS [illegible]

0834

AnalyticalTechnologies, Inc.

ATI I.D. 00802

February 2, 1987

Gregg & Associates
18351 Beach Blvd.
Huntington Beach, CA 92648

Project : LOCKHEED

Project No.: 86-106-022

Attention: Pat Keating

On January 7, 1986, Analytical Technologies, Inc. received seven (7) water samples for analysis. Seven (7) samples were analyzed for cyanide, total dissolved solids, sulfate, nitrate (as nitrogen), bicarbonate (as CaCO3), phosphate (as phosphorus), chloride, fluoride, calcium, manganese, sodium, bromide, potassium, electrical conductivity, and volatile organics. Five (5) samples were analyzed for the California Administrative Code metals and total organic carbons. Two (2) samples were analyzed for the Priority Pollutant Metals, total phenols, and base/neutral and acid extractables including pesticides and polychlorinated biphenyls.

The manganese, calcium, sodium, and potassium were analyzed using atomic emission spectroscopy/inductively coupled argon plasma in accordance with EPA method 6010. The nitrate (as nitrogen), and sulfate were done using autoanalyzer in accordance with EPA methods 353.1 and 375.2. The phosphate (as phosphorus), chloride, and bromide were analyzed by ion chromatography according to EPA method 300.0. The fluoride was analyzed in accordance with EPA method 340.1. The electrical conductivity, total dissolved solids, and bicarbonate (as CaCO3) were analyzed in accordance with EPA methods 120.1, 160.1, and 310.1,respectively.

The metals zinc, nickel, chromium, copper, silver, molybdenum, cobalt, vanadium, beryllium, and barium were analyzed using atomic emission spectroscopy by inductively coupled argon plasma in accordance with EPA method 6010. The metals arsenic, cadmium, lead, antimony, selenium, and thallium were analyzed using atomic absorption graphite furnace in accordance with EPA methods outlined in the 7000 series. The mercury was analyzed using cold vapor atomic absorption technique in accordance with EPA method 7471.

The cyanide, and total phenols were analyzed in accordance with EPA methods 335.3 and 420.2, respectively.

The TOC was analyzed using Xertex/Dohrmann DC-80 carbon analyzer in accordance with EPA method 415.2.

The base/neutral and acid extractables including pesticides and polychlorinated biphenyls were analyzed using gas chromatography/ mass spectroscopy in accordance with EPA method 625. The volatile organics were analyzed using gas chromatography/mass spectroscopy in accordance with EPA method 624. Sample results have been corrected for constituents found in the reagent blank.

The results of these analyses and the quality control data are enclosed.

Marcilen Lindsey
Inorganics Supervisor

Richard M. Amano
Laboratory Manager

Note: The samples from this project will be disposed of 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.

ATI I.D. 00802

DATA SHEET

CLIENT :GREGG & ASSOCIATES
PROJECT:LOCKHEED 86-106-022
SAMPLE MATRIX:WATER

DATE SAMPLED:1-6-87
DATE RECEIVED:1-7-87
UNITS : mg/L

ATI SAMPLE I.D.	CLIENT SAMPLE I.D.	CYANIDE	TOTAL PHENOLS	TOTAL ORGANIC CARBON
-001	B-1-MW7-1	<0.01	<0.02	---
-002	B-1-MW7-2	<0.01	---	<0.5
-003	B-1-MW7-3	<0.01	---	<0.5
-004	B-1-MW7-4	<0.01	---	<0.5
-005	B-1-MW7-5	<0.01	---	<0.5
-006	B-1-MW7-6	<0.01	---	<0.5
-007	B-1-MW7-7	<0.01	<0.02	---

Analytical Technologies, Inc.

GENERAL MINERALS

CLIENT : GREGG & ASSOCIATES
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-7-87
SAMPLE MATRIX : WATER
UNITS : mg/L

PARAMETER	CLIENT I.D. B-1-MW7-1	B-1-MW7-2	B-1-MW7-3	B-1-MW7-4
	ATI I.D. -001	-002	-003	-004
TOTAL DISSOLVED SOLIDS	360	400	280	360
SULFATE	62.3	61.5	62.6	54.6
NITRATE (AS NITROGEN)	0.94	1.8	1.2	2.0
BICARBONATE (AS CaCO3)	157	161	160	172
PHOSPHATE (AS PHOSPHORUS)	0.09	0.07	0.07	0.07
CHLORIDE	23.2	29.5	23.2	29.0
FLUORIDE	0.7	0.6	0.7	0.6
CALCIUM	50.7	57.0	52.0	57.5
MANGANESE	0.12	0.09	0.27	0.06
SODIUM	35.4	36.1	32.8	35.1
BROMIDE	<0.5	0.5	0.5	0.5
POTASSIUM	3.6	3.7	3.4	3.7
ELECTRICAL CONDUCTIVITY (umhos/cm)	463	512	464	514

PARAMETER	CLIENT I.D. B-1-MW7-5	B-1-MW7-6	B-1-MW7-7
	ATI I.D. -005	-006	-007
TOTAL DISSOLVED SOLIDS	370	370	360
SULFATE	45.8	56.4	52.4
NITRATE (AS NITROGEN)	<0.05	<0.05	<0.05
BICARBONATE (AS CaCO3)	172	165	173
PHOSPHATE (AS PHOSPHORUS)	0.08	<0.05	<0.05
CHLORIDE	27.2	27.8	27.6
FLUORIDE	0.6	0.6	0.6
CALCIUM	58.2	55.0	57.0
MANGANESE	0.06	0.04	0.04
SODIUM	35.1	34.9	35.8
BROMIDE	0.5	0.5	0.5
POTASSIUM	3.7	3.6	3.7
ELECTRICAL CONDUCTIVITY (umhos/cm)	518	498	519

Analytical Technologies, Inc.

ATI I.D.00802

CLIENT :GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022

QUALITY CONTROL

UNITS:mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
CYANIDE	2-3-87	00802-007	<0.01	<0.01	n/a
TOTAL PHENOLS	1-20-87	00802-007	<0.02	<0.02	N/A
TOTAL ORGANIC CARBON	1-22-87	01201-004	3.3	3.2	3.0
TOTAL DISSOLVED SOLIDS	1-27-87	00802-007	364	364	0.0
SULFATE	1-30-87	00807-001	52.8	44.8	16.4
NITRATE (AS NITROGEN)	1-23-87	00907-001	5.4	5.5	-1.8
BICARBONATE (AS CaCO3)	1-29-87	00802-001	157	157	0.0
PHOSPHATE (AS PHOSPHORUS)	1-28-87	01202-003	<0.02	<0.02	N/A
CHLORIDE	1-28-87	01202-005	35.2	35.6	-1.1
FLUORIDE	1-21-87	00802-007	0.6	0.6	0.0
CALCIUM	1-27-87	00802-006	55.0	54.2	1.5
MANGANESE	1-27-87	00802-006	0.04	0.04	0.0
SODIUM	1-27-87	00802-006	34.9	36.8	-5.3
BROMIDE	2-2-87	01202-003	0.7	0.6	15.4
POTASSIUM	1-27-87	00802-006	3.6	3.9	-8.0
ELECTRICAL CONDUCTIVITY (umhos/cm)	1-27-87	00802-005	518	516	0.4

UNITS:mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% RECOVERY
CYANIDE	00802-007	0.10	0.10	100
TOTAL PHENOLS	00802-007	0.10	0.10	100
TOTAL ORGANIC CARBON	01201-004	26.0	20.0	114
TOTAL DISSOLVED SOLIDS	00802-007	N/A	N/A	N/A
SULFATE	00807-001	293	200	122
NITRATE (AS NITROGEN)	00907-001	23.2	20.0	88
BICARBONATE (AS CaCO3)	00802-001	N/A	N/A	N/A
PHOSPHATE (AS PHOSPHORUS)	01202-003	0.98	1.00	98
CHLORIDE	01202-005	53.5	17.7	102
FLUORIDE	00802-007	5.6	5.0	100
CALCIUM	00802-006	152	100	97
MANGANESE	00802-006	9.73	10.0	97
SODIUM	00802-006	299	250	105
BROMIDE	01202-003	1.0	1.0	35
POTASSIUM	00802-006	26	20	111
ELECTRICAL CONDUCTIVITY (umhos/cm)	00802-005	N/A	N/A	N/A

Analytical Technologies, Inc.

ATI I.D. 00802

CALIFORNIA ADMINISTRATIVE CODE
METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-022

DATE RECEIVED :1-7-87
SAMPLE MATRIX :WATER
UNITS : mg/L

CLIENT I.D. / PARAMETER	B-1-MW7-2	B-1-MW7-3	B-1-MW7-4	B-1-MW7-5	B-1-MW7-6
ATI I.D.	-002	-003	-004	-005	-006
ZINC	0.01	0.03	0.02	0.02	0.02
NICKEL	0.02	0.03	<0.01	0.03	0.01
CHROMIUM	<0.01	0.02	0.01	0.02	0.01
COPPER	<0.02	<0.02	<0.02	<0.02	<0.02
SILVER	<0.05	<0.05	<0.05	<0.05	<0.05
MOLYBDENUM	<0.02	0.03	<0.02	0.03	0.03
COBALT	<0.02	<0.02	<0.02	<0.02	<0.02
VANADIUM	0.02	<0.01	0.02	0.02	<0.01
BERYLLIUM	<0.02	<0.02	<0.02	<0.02	<0.02
BARIUM	0.09	0.08	0.09	0.09	0.09
ARSENIC	<0.002	<0.002	<0.002	<0.002	<0.002
CADMIUM	<0.0004	<0.0004	<0.0004	<0.0004	<0.0004
LEAD	<0.002	<0.002	<0.002	<0.002	<0.002
ANTIMONY	<0.002	<0.002	<0.002	<0.002	<0.002
SELENIUM	<0.002	<0.002	<0.002	<0.002	<0.002
THALLIUM	<0.002	<0.002	<0.002	<0.002	<0.002
MERCURY	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Analytical Technologies, Inc.

ATI I.D. 00802

PRIORITY POLLUTANT METALS

CLIENT : GREGG & ASSOC.
PROJECT :LOCKHEED 86-106-106-022

DATE RECEIVED: 1-7-87
SAMPLE MATRIX :WATER
UNITS : mg/L

PARAMETER	CLIENT I.D.	B-1-MW7-1	B-1-MW7-7
	ATI I.D.	-001	-007
ZINC		0.03	0.03
NICKEL		0.02	0.02
CHROMIUM		<0.01	0.01
COPPER		<0.02	<0.02
SILVER		<0.05	<0.05
BERYLLIUM		<0.02	<0.02
ARSENIC		0.002	<0.002
CADMIUM		<0.0004	0.0013
LEAD		<0.002	<0.002
ANTIMONY		<0.002	<0.002
SELENIUM		<0.002	<0.002
THALLIUM		<0.002	<0.002
MERCURY		<0.0005	<0.0005

Analytical Technologies, Inc.

CLIENT : GREGG & ASSOC. ATI I.D. 00802
PROJECT: LOCKHEED 86-106-022

METALS
QUALITY CONTROL

UNITS: mg/L

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
ZINC	1-27-87	00802-006	0.02	0.02	0.0
NICKEL	1-27-87	00802-006	0.01	<0.01	200.0
CHROMIUM	1-27-87	00802-006	0.01	0.01	0.0
COPPER	1-27-87	00802-006	<0.02	<0.02	N/A
SILVER	1-27-87	00802-006	<0.05	<0.05	N/A
MOLYBDENUM	1-27-87	00802-006	0.03	0.02	40.0
COBALT	1-27-87	00802-006	<0.02	<0.02	N/A
VANADIUM	1-27-87	00802-006	<0.01	<0.01	N/A
BERYLLIUM	1-27-87	00802-006	<0.02	<0.02	N/A
BARIUM	1-27-87	00802-006	0.09	0.09	0.0
ARSENIC	1-26-87	01202-001	<0.002	<0.002	N/A
CADMIUM	1-16-87	00802-003	<0.0004	<0.0004	N/A
LEAD	1-16-87	00802-003	<0.002	<0.002	N/A
ANTIMONY	1-15-87	00802-002	<0.002	<0.002	N/A
[illegible]NIUM	1-19-87	00802-002	<0.002	<0.002	N/A
[illegible]LLIUM	1-20-87	00802-007	<0.002	<0.002	N/A
MERCURY	1-12-87	35307-006	<0.0005	<0.0005	N/A

UNITS: mg/L

PARAMETER	SAMPLE I.D.	SPIKED SAMPLE	AMOUNT SPIKED	% REC.
ZINC	00802-006	5.08	5.0	98
NICKEL	00802-006	4.88	5.0	97
CHROMIUM	00802-006	5.21	5.0	104
COPPER	00802-006	5.10	5.0	102
SILVER	00802-006	4.69	5.0	93
MOLYBDENUM	00802-006	4.91	5.0	98
COBALT	00802-006	5.04	5.0	101
VANADIUM	00802-006	5.13	5.0	103
BERYLLIUM	00802-006	5.10	5.0	102
BARIUM	00802-006	5.22	5.0	103
ARSENIC	01202-001	0.047	0.050	94
CADMIUM	00802-003	0.0064	0.0060	110
LEAD	00802-003	0.040	0.05	80
ANTIMONY	00802-002	0.056	0.05	112
S[illegible]NIUM	00802-002	0.052	0.05	104
T[illegible]LLIUM	00802-007	0.046	0.050	92
[illegible]CURY	35307-006	0.0045	0.0050	90

Analytical Technologies, Inc.

ATI I.D. 00802-001

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW7-1
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-6-87
DATE RECEIVED :1-7-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	2
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	1
TOLUENE	1	4
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	87 %
BFB	100 %
TOLUENE-D6	97 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00802-002

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW7-2
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-6-87
DATE RECEIVED :1-7-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	3
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	1
TOLUENE	1	1
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	89 %
BFB	100 %
TOLUENE-D6	98 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00802-003

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW7-3
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-6-87
DATE RECEIVED :1-7-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	3
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	2
TOLUENE	1	1
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	81 %
BFB	101 %
TOLUENE-D6	98 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00802-004

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW7-4
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-6-87
DATE RECEIVED :1-7-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	4
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	3
TOLUENE	1	2
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	85 %
BFB	102 %
TOLUENE-D6	97 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00802-005

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW7-5
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-6-87
DATE RECEIVED :1-7-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	4
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	2
TOLUENE	1	3
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	84 %
BFB	98 %
TOLUENE-D6	98 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00802-006

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW7-6
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-6-87
DATE RECEIVED :1-7-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	35
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	11
TOLUENE	1	27
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	81 %
BFB	101 %
TOLUENE-D6	95 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00802-007

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : B-1-MW7-7
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : 1-6-87
DATE RECEIVED :1-7-87
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	1
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	12
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	10
TOLUENE	1	3
CHLOROBENZENE	1	U
ETHYL BENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	85 %
BFB	98 %
TOLUENE-D6	97 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00802-RB

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX :WATER
UNITS : ug/L
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE ANALYZED:1-13-87
METHOD NO.: EPA 624

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	9
ACETONE	10	TR
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	1
CHLOROBENZENE	1	U
ETHYL BENZENE	1	1
STYRENE	1	U
TOTAL XYLENES	1	1

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	86 %
BFB	100 %
TOLUENE-D6	98 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00802-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :B-1-MW7-1
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-6-87
DATE RECEIVED :1-7-87
DATE EXTRACTED:1-13-87
DATE ANALYZED:1-27-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

Analytical Technologies, Inc.

ATI I.D. 00802-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC.
SAMPLE I.D. :B-1-MW7-1

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	98 %
2-FLUOROBIPHENYL	96 %
TERPHENYL	104 %
PHENOL-D5	54 %
2-FLUOROPHENOL	79 %
2,4,6-TRIBROMOPHENOL	65 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00802-001

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:B-1-MW7-1
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:1-6-87
DATE RECEIVED : 1-7-87
DATE ANALYZED:1-27-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
ORGANIC ACID	1320	20
PHTHALATE	2170	10

Analytical Technologies, Inc.

ATI I.D. 00802-001

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW7-1
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 1-6-87
DATE RECEIVED : 1-7-87
DATE EXTRACTED: 1-13-87
DATE ANALYZED: 1-27-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

Analytical Technologies, Inc.

ATI I.D. 00802-007

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. :B-1-MW7-7
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED :1-6-87
DATE RECEIVED :1-7-87
DATE EXTRACTED:1-13-87
DATE ANALYZED:1-27-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

Analytical Technologies, Inc.

ATI I.D. 00802-007

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC.
SAMPLE I.D. :B-1-MW7-7

PROJECT: LOCKHEED 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	72 %
2-FLUOROBIPHENYL	80 %
TERPHENYL	92 %
PHENOL-D5	72 %
2-FLUOROPHENOL	96 %
2,4,6-TRIBROMOPHENOL	77 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00802-007

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D.:B-1-MW7-7
SAMPLE MATRIX : WATER
UNITS:ug/L

DATE SAMPLED:1-6-87
DATE RECEIVED : 1-7-87
DATE ANALYZED:1-27-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
AN ALCOHOL, C6H12O	474	30
AN ORGANIC ACID	1319	10

Analytical Technologies, Inc.

ATI I.D. 00802-007

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: B-1-MW7-7
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 1-6-87
DATE RECEIVED : 1-7-87
DATE EXTRACTED: 1-13-87
DATE ANALYZED: 1-27-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

Analytical Technologies, Inc.

ATI I.D. 00802-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT :GREGG & ASSOC.
PROJECT:LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED:1-13-87
DATE ANALYZED:1-27-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

Analytical Technologies, Inc.

ATI I.D. 00802-RB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT :GREGG & ASSOC. PROJECT: LOCKHEED 86-106-022
SAMPLE I.D. : ATI REAGENT BLANK UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	74 %
2-FLUOROBIPHENYL	80 %
TERPHENYL	96 %
PHENOL-D5	55 %
2-FLUOROPHENOL	74 %
2,4,6-TRIBROMOPHENOL	74 %

U indicates the compound was analyzed for but not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 00802-RB

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE I.D.: ATI REAGENT BLANK
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED:N/A
DATE RECEIVED :N/A
DATE EXTRACTED: 1-13-87
DATE ANALYZED: 1-22-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

AnalyticalTechnologies, Inc.
San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

Chain of Custody Record

DATE 1/7/87 PAGE 1 OF 1

CLIENT GREEG & ASSOC. INC
ADDRESS 18351 BEACH BLVD
HUNTINGTON BCH, CA 92647

PROJECT CALAC BURBANK

SAMPLERS (SIGNATURE) Jeff Martin

	SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX EPA 415	EPA 625	T. PHENOLS EPA 420.1	NO3	T. CN EPA 335.3			NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
1	B-1-MW7-1	1/6/87		B-1-MW7		X	X			X	X		X		X	X	X	X			9	
2	B-1-MW7-2	1/6/87		"	X		X						X	X			X	X			8	
3	B-1-MW7-3	1/6/87		"	X		X						X	X			X	X			8	
4	B-1-MW7-4	1/6/87		"	X		X						X	X			X	X			8	
5	B-1-MW7-5	1/6/87		"	X		X						X	X			X	X			8	
6	B-1-MW7-6	1/6/87		"	X		X						X	X			X	X			8	
7	B-1-MW7-7	1/6/87		"		X	X			X	X		X		X	X	X	X			9	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature: Jeff Martin	1/7 87	Signature: Ral Navarro	1/7/87	Signature: S. NAVARRO	1/7	Signature	
Printed Name: JEFF MARTIN	TIME 12:00 NOON	Printed Name: Ral Navarro	TIME 12:15 1pm	Printed Name: Redi Express	TIME 6pm	Printed Name	TIME
Company: GREEG & ASSOC		Company: Redi-Express		Company		Company	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature		Signature		Signature		Signature: Marcia VanRaalte	1/7/87
Printed Name	TIME	Printed Name	TIME	Printed Name	TIME	Printed Name: [illegible]	TIME
Company		Company		Company		Analytical Technologies, Inc.	

TOTAL NUMBER OF CONTAINERS 58

METHOD OF SHIPMENT: REDI-EXPRESS

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

DISTRIBUTION: WHITE, CANARY - ANALYTICAL TECHNOLOGIES, INC. • PINK - ORIGINATOR

0834

RECEIVED FEB 0 5 1987 0834

ATI I.D. 35604/35807

AnalyticalTechnologies, Inc.

February 4, 1987

Gregg & Associates
18351 Beach Blvd.
Huntington Beach, CA 92648

Project : CALAC

Project No.: 86-106-022

Attention: Pat Keating

The enclosed report contains our combined reports 35604 and 35807. Also enclosed are the results for the reextracted sample 35604-001 for base/neutral and acid extractable compounds (EPA 625).

Marcilen Lindsey
Inorganics Supervisor

Richard M. Amano
Laboratory Manager

ATI I.D. 35604/35807

AnalyticalTechnologies, Inc.
Corporate Offices 5550 Morehouse Drive San Diego CA 92121 [illegible]

January 21, 1987

Gregg & Associates
18351 Beach Blvd.
Huntington Beach, CA 92648

Project : CALAC

Project No.: 86-106-022

Attention: Pat Keating

On December 19, 1986, Analytical Technologies, Inc. received six (6) water samples for analysis. The nitric acid bottle for sample B-1 MW8-6 and the sulfuric acid preserved bottles for samples B-1 MW8-2, B-1 MW8-3, and B-1 MW8-4 were received December 24, 1986. Six (6) samples were analyzed for cyanide, total dissolved solids, sulfate, nitrate (as nitrogen), bicarbonate (as CaCO3), phosphate (as phosphorus), chloride, fluoride, calcium, manganese, sodium, bromide, potassium, electrical conductivity, and volatile organics. Four (4) samples were analyzed for the California Administrative Code metals and total organic carbons. Two (2) samples were analyzed for the Priority Pollutant Metals, total phenols, and base/neutral and acid extractables including pesticides and polychlorinated biphenyls.

The manganese, calcium, sodium, and potassium were analyzed using atomic emission spectroscopy/inductively coupled argon plasma in accordance with EPA method 6010. The nitrate (as nitrogen), and sulfate were done using autoanalyzer in accordance with EPA methods 353.1 and 375.2. The phosphate (as phosphorus), chloride, and bromide were analyzed by ion chromatography according to EPA method 300.0. The fluoride was analyzed in accordance with EPA method 340.1. The electrical conductivity, total dissolved solids, and bicarbonate (as CaCo3) were analyzed in accordance with EPA methods 120.1, 160.1, and 310.1,respectively.

The metals zinc, nickel, chromium, copper, silver, molybdenum, cobalt, vanadium, beryllium, and barium were analyzed using atomic emission spectroscopy by inductively coupled argon plasma in accordance with EPA method 6010. The metals arsenic, cadmium, lead, antimony, selenium, and thallium were analyzed using atomic absorption graphite furnace in accordance with EPA methods outlined in the 7000 series. The mercury was analyzed using cold vapor atomic absorption technique in accordance with EPA method 7471.

Analytical Technologies, Inc.

The total dissolved solids, cyanide, and total phenols were analyzed in accordance with EPA methods 160.1, 335.3, and 420.2, respectively.

The TOC was analyzed using Xertex/Dohrmann DC-80 carbon analyzer in accordance with EPA method 415.2.

The base/neutral and acid extractables including pesticides and polychlorinated biphenyls were analyzed using gas chromatography/ mass spectroscopy in accordance with EPA method 625. The volatile organics were analyzed using gas chromatography/mass spectroscopy in accordance with EPA method 624. Sample results have been corrected for constituents found in the reagent blank.

The results of these analyses and the quality control data are enclosed.

Marcilen Lindsey
Inorganics Supervisor

Richard M. Amano
Laboratory Manager

Note: The samples from this project will be disposed of 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.

Technologies,

ATI I.D. 35604/35807

GENERAL MINERALS

CLIENT : GREGG & ASSOCIATES
PROJECT : CALAC 86-106-022

DATE RECEIVED: 12-19-86;12-24-86
SAMPLE MATRIX: WATER
UNITS: mg/L

PARAMETER	CLIENT I.D.	B-1 MW8-1	B-1 MW8-2	B-1 MW8-3
	ATI I.D.	-001	-002	-003
TOTAL DISSOLVED SOLIDS		440	470	440
SULFATE		66.0	66.0	73.6
NITRATE (AS NITROGEN)		3.2	2.6	2.8
BICARBONATE (AS CaCO3)		157	181	159
PHOSPHATE (AS PHOSPHORUS)		0.14	0.13	0.11
CHLORIDE		26.7	26.7	26.7
FLUORIDE		0.6	0.6	0.6
CALCIUM		57.8	67.9	59.4
MANGANESE		0.03	0.15	0.02
SODIUM		50.0	41.2	46.6
BROMIDE		<0.5	<0.5	<0.5
POTASSIUM		4.7	4.5	4.3
ELECTRICAL CONDUCTIVITY (umhos/cm)		580	610	580

PARAMETER	CLIENT I.D.	B-1 MW8-4	B-1 MW8-5	B-1 MW8-6
	ATI I.D.	-004	-005	-006
TOTAL DISSOLVED SOLIDS		490	400	340
SULFATE		72.7	66.5	52.2
NITRATE (AS NITROGEN)		3.0	1.8	1.0
BICARBONATE (AS CaCO3)		160	158	158
PHOSPHATE (AS PHOSPHORUS)		0.22	0.17	0.06
CHLORIDE		30.5	29.5	15.2
FLUORIDE		0.6	0.6	0.6
CALCIUM		61.6	58.0	55.1
MANGANESE		0.02	0.05	0.03
SODIUM		48.4	43.6	38.0
BROMIDE		<0.5	<0.5	<0.5
POTASSIUM		4.3	4.3	4.0
ELECTRICAL CONDUCTIVITY (umhos/cm)		600	520	450

Analytical Technologies, Inc.

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022

ATI I.D. 35604/35807
UNITS: mg/L

QUALITY CONTROL

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
CYANIDE	01-12-87	35604-006	<0.01	<0.01	N/A
TOTAL PHENOLS	01-16-87	35103-002	<0.02	<0.02	N/A
TOTAL ORGANIC CARBON	12-26-86	35603-001	48.9	49.3	1
TOTAL DISSOLVED SOLIDS	01-06-87	35604-001	440	420	4
SULFATE	01-07-87	35607-001	21.5	24.9	14
NITRATE (AS NITROGEN)	01-13-87	35203-002	<0.05	<0.05	N/A
BICARBONATE (AS CaCO3)	01-19-87	35604-002	181	180	1
PHOSPHATE (AS PHOSPHORUS)	01-16-87	35604-006	0.06	0.06	0
CHLORIDE	01-16-87	35604-006	15.2	15.2	0
FLUORIDE	01-12-87	35604-006	0.6	0.6	0
CALCIUM	12-30-86	32810-002	123	124	1
MANGANESE	01-17-87	35802-001	0.02	0.02	0
SODIUM	01-05-87	35604-001	50.0	48.4	3
BROMIDE	01-16-87	35604-006	<0.5	<0.5	N/A
POTASSIUM	12-30-86	35604-001	4.7	4.5	3
ELECTRICAL CONDUCTIVITY (umhos/cm)	01-16-87	35604-006	450	450	0

Analytical Technologies, Inc.

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022

ATI I.D. 35604/35807
UNITS: mg/L

QUALITY CONTROL
(CONT.)

PARAMETER	SAMPLE I.D	SPIKED SAMPLE	AMOUNT SPIKED	% RECOVERY
CYANIDE	35604-006	0.104	0.100	104
TOTAL PHENOLS	35103-002	0.09	0.10	90
TOTAL ORGANIC CARBON	35603-001	68.7	20.0	99
SULFATE	35607-001	77.0	80.0	67
NITRATE (AS NITROGEN)	35203-002	1.0	1.0	100
PHOSPHATE (AS PHOSPHORUS)	35604-006	0.52	0.50	104
CHLORIDE	35604-006	110	100	95
FLUORIDE	35604-006	5.2	5.0	92
CALCIUM	32810-002	584	500	92
MANGANESE	35802-001	9.76	10.0	97
SODIUM	35604-001	299	250	100
BROMIDE	35604-006	50.0	50.0	100
POTASSIUM	35604-001	26.5	20.0	109

Technologies,

ATI I.D. 35604/35807

CALIFORNIA ADMINISTRATIVE CODE
METALS

CLIENT: GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022

DATE RECEIVED: 12-19-86;12-24-86
SAMPLE MATRIX: WATER
UNITS: mg/L

PARAMETER	CLIENT I.D.	B-1 MW8-2	B-1 MW8-3	B-1 MW8-4	B-1 MW8-6
	ATI I.D.	-002	-003	-004	35807 -001
ZINC		0.04	0.03	0.04	0.01
NICKEL		0.01	0.01	0.02	<0.01
CHROMIUM		<0.01	<0.01	<0.01	<0.01
COPPER		<0.02	<0.02	<0.02	<0.02
SILVER		<0.05	<0.05	<0.05	<0.05
MOLYBDENUM		<0.02	<0.02	<0.02	<0.02
COBALT		<0.02	<0.02	<0.02	<0.02
VANADIUM		0.02	0.01	<0.01	<0.01
BERYLLIUM		<0.02	<0.02	<0.02	<0.02
BARIUM		0.08	0.09	0.09	0.07
ARSENIC		<0.002	<0.002	<0.002	<0.002
CADMIUM		<0.0004	<0.0004	<0.0004	<0.0004
LEAD		<0.002	<0.002	<0.002	<0.002
ANTIMONY		<0.002	<0.002	<0.002	<0.002
SELENIUM		<0.002	<0.002	<0.002	<0.002
THALLIUM		<0.002	<0.002	<0.002	<0.002
MERCURY		<0.0005	<0.0005	<0.0005	<0.0005

Analytical Technologies, Inc.

ATI I.D. 35604

PRIORITY POLLUTANT METALS

CLIENT : GREGG & ASSOCIATES
PROJECT : CALAC 86-106-022

DATE RECEIVED : 11-19-86
SAMPLE MATRIX : WATER
UNITS : mg/L

PARAMETER	CLIENT I.D.	B-1 MW8-1	B-1 MW8-5
	ATI I.D.	-001	-005
ZINC		0.10	0.05
NICKEL		0.02	0.02
CHROMIUM		<0.01	<0.01
COPPER		0.02	<0.02
SILVER		<0.05	<0.05
BERYLLIUM		<0.02	<0.02
ARSENIC		<0.002	<0.002
CADMIUM		<0.0004	<0.0004
LEAD		0.003	<0.002
ANTIMONY		<0.002	<0.002
SELENIUM		<0.002	<0.002
THALLIUM		<0.002	<0.002
MERCURY		<0.0005	<0.0005

Analytical Technologies, Inc.

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022

ATI I.D. 35604;35807
UNITS: mg/L

METALS
QUALITY CONTROL

ANALYSIS	DATE	SAMPLE I.D.	RESULT	DUPLICATE	RPD %
ZINC	01-09-87	35604-001	0.10	0.11	10
NICKEL	01-09-87	35604-001	0.01	0.02	N/A
CHROMIUM	01-09-87	35604-001	<0.01	<0.01	N/A
COPPER	01-09-87	35604-001	0.02	0.02	0
SILVER	01-12-87	35604-001	<0.05	<0.05	N/A
MOLYBDENUM	01-15-87	35807-001	<0.02	<0.02	N/A
COBALT	01-15-87	35807-001	<0.02	<0.02	N/A
VANADIUM	01-15-87	35807-001	<0.01	<0.01	N/A
BERYLLIUM	01-09-87	35604-001	<0.02	<0.02	N/A
BARIUM	12-30-86	32810-002	0.04	0.04	0
ARSENIC	12-31-86	35604-002	<0.002	<0.002	N/A
CADMIUM	12-31-86	35604-002	<0.0004	<0.0004	N/A
LEAD	12-30-86	35604-002	<0.002	<0.002	N/A
ANTIMONY	01-15-87	35604-001	<0.002	<0.002	N/A
SELENIUM	12-30-86	35604-002	<0.002	<0.002	N/A
THALLIUM	01-20-87	35604-002	<0.002	<0.002	N/A
MERCURY	12-30-86	35604-005	<0.0005	<0.0005	N/A

Analytical Technologies, Inc.

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022

ATI I.D. 35604/35807
UNITS: mg/L

METALS
QUALITY CONTROL
(CONT.)

PARAMETER	SAMPLE I.D	SPIKED SAMPLE	AMOUNT SPIKED	% RECOVERY
ZINC	35604-001	5.2	5.0	102
NICKEL	35604-001	4.8	5.0	94
CHROMIUM	35604-001	5.1	5.0	102
COPPER	35604-001	4.8	5.0	92
SILVER	35604-001	4.79	5.0	96
MOLYBDENUM	35807-001	5.13	5.0	103
COBALT	35807-001	5.18	5.0	104
VANADIUM	35807-001	5.11	5.0	102
BERYLLIUM	35604-001	5.2	5.0	104
BARIUM	32810-002	4.5	5.0	89
ARSENIC	35604-002	0.064	0.05	128
CADMIUM	35604-002	0.0068	0.006	113
LEAD	35604-002	0.056	0.05	112
ANTIMONY	35604-001	0.056	0.05	112
SELENIUM	35604-002	0.056	0.05	112
THALLIUM	35604-002	0.038	0.050	76
MERCURY	35604-005	0.0050	0.0050	100

Technologies,

ATI I.D. 35604

DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT : CALAC 86-106-022

DATE RECEIVED : 12-19-86
SAMPLE MATRIX : WATER
UNITS : mg/L

ATI I.D.	CLIENT I.D.	CYANIDE	TOTAL PHENOLS	TOTAL ORGANIC CARBON
-001	B-1 MW8-1	<0.01	<0.02	---
-002	B-1 MW8-2	<0.01	---	1.0
-003	B-1 MW8-3	<0.01	---	<0.5
-004	B-1 MW8-4	<0.01	---	<0.5
-005	B-1 MW8-5	<0.01	<0.02	---
-006	B-1 MW8-6	<0.01	---	<0.5

Analytical Technologies, Inc.

ATI I.D. 35604-001

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : B-1-MW8-1
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-18-86
DATE RECEIVED : 12-19-86
DATE ANALYZED: 12-30-86
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	1
TOLUENE	1	50
CHLOROBENZENE	1	U
ETHYLBENZENE	1	24
STYRENE	1	U
TOTAL XYLENES	1	45

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	101 %
BFB	97 %
TOLUENE-D6	104 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 35604-002

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : B-1-MW8-2
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-18-86
DATE RECEIVED : 12-19-86
DATE ANALYZED: 12-30-86
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	38
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	38
TOLUENE	1	8
CHLOROBENZENE	1	U
ETHYLBENZENE	1	2
STYRENE	1	U
TOTAL XYLENES	1	9

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	105 %
BFB	102 %
TOLUENE-D6	99 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 35604-003

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : B-1-MW8-3
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-18-86
DATE RECEIVED : 12-19-86
DATE ANALYZED: 12-30-86
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	1
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	1
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	3
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	112 %
BFB	125 %
TOLUENE-D6	102 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Advanced Technologies, Inc.

ATI I.D. 35604-004

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : B-1-MW8-4
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-18-86
DATE RECEIVED : 12-19-86
DATE ANALYZED: 01-02-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	25
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	2
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	2
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	97 %
BFB	113 %
TOLUENE-D6	110 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 35604-005

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : B-1-MW8-5
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-18-86
DATE RECEIVED : 12-19-86
DATE ANALYZED: 01-01-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	110 %
BFB	106 %
TOLUENE-D6	93 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 35604-006

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : B-1-MW8-6
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : 12-18-86
DATE RECEIVED : 12-19-86
DATE ANALYZED: 01-01-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	U
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	U
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	73 %
BFB	95 %
TOLUENE-D6	105 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 35604

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : REAGENT BLANK
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE ANALYZED: 12-30-86
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	6
ACETONE	10	14
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	5
CHLOROBENZENE	1	U
ETHYLBENZENE	1	4
STYRENE	1	U
TOTAL XYLENES	1	4

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	100 %
BFB	99 %
TOLUENE-D6	99 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 35604

VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D.: REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS: ug/L

DATE SAMPLED: N/A
DATE RECEIVED : N/A
DATE ANALYZED:12-30-86
METHOD : EPA 624

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
HYDROCARBON	781	10

Analytical Technologies, Inc.

ATI I.D. 35604

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : REAGENT BLANK
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE ANALYZED: 01-01-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	19
ACETONE	10	17
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	U
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	3
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	95 %
BFB	116 %
TOLUENE-D6	107 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc.

ATI I.D. 35604

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : REAGENT BLANK
SAMPLE MATRIX :WATER
DILUTION FACTOR: 1

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE ANALYZED: 01-02-87
METHOD : EPA 624
UNITS : ug/L

PARAMETER	DETECTION LIMIT	RESULT
CHLOROMETHANE	10	U
BROMOMETHANE	10	U
VINYL CHLORIDE	1	U
CHLOROETHANE	1	U
METHYLENE CHLORIDE	5	TR
ACETONE	10	U
CARBON DISULFIDE	1	U
1,1-DICHLOROETHENE	1	U
1,1-DICHLOROETHANE	1	U
TRANS-1,2-DICHLOROETHENE	1	U
CHLOROFORM	1	U
1,2-DICHLOROETHANE	1	U
2-BUTANONE (MEK)	10	U
1,1,1-TRICHLOROETHANE	1	U
CARBON TETRACHLORIDE	1	U
VINYL ACETATE	10	U
BROMODICHLOROMETHANE	1	U
1,1,2,2-TETRACHLOROETHANE	1	U
1,2-DICHLOROPROPANE	1	U
TRANS-1,3-DICHLOROPROPENE	1	U
TRICHLOROETHENE	1	1
DIBROMOCHLOROMETHANE	1	U
1,1,2-TRICHLOROETHANE	1	U
BENZENE	1	U
CIS-1,3-DICHLOROPROPENE	1	U
2-CHLOROETHYLVINYLETHER	10	U
BROMOFORM	5	U
2-HEXANONE (MBK)	10	U
4-METHYL-2-PENTANONE (MIBK)	10	U
TETRACHLOROETHENE	1	U
TOLUENE	1	3
CHLOROBENZENE	1	U
ETHYLBENZENE	1	U
STYRENE	1	U
TOTAL XYLENES	1	U

SURROGATE RECOVERIES:

1,2-DICHLOROETHANE-D4	129 %
BFB	124 %
TOLUENE-D6	120 %

U indicates the compound was analyzed for but was not detected.
B indicates the compound was found in the reagent blank.
TR indicates the compound was detected at levels below the limit stated.

Analytical Technologies, Inc

ATI I.D. 35604-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT : GREGG & ASSOCIATES
SAMPLE I.D. : B-1 MW8-1

PROJECT: CALAC 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	30
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	46 %	
2-FLUOROBIPHENYL	70 %	
TERPHENYL	93 %	
PHENOL-D5	15 %	
2-FLUOROPHENOL	4 %	*
2,4,6-TRIBROMOPHENOL	18 %	

* Low surrogate recovery due to possible sample matrix interference. This sample will be reextracted to verify this.

U indicates the compound was analyzed for but was not detected.

Analytical Technologies, Inc.

ATI I.D. 35604-001 REEXTRACT

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : B-1 MW8-1
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED : 12-18-86
DATE RECEIVED : 12-19-86
DATE EXTRACTED: 01-21-87
DATE ANALYZED: 01-26-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

AnalyticalTechnologies,Inc.

ATI I.D. 35604-001 REEXTRACT

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT : GREGG & ASSOCIATES
SAMPLE I.D. : B-1 MW8-1

PROJECT: CALAC 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	26
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	86 %
2-FLUOROBIPHENYL	88 %
TERPHENYL	74 %
PHENOL-D5	65 %
2-FLUOROPHENOL	86 %
2,4,6-TRIBROMOPHENOL	75 %

U indicates the compound was analyzed for but was not detected.

AnalyticalTechnologies,Inc.

ATI I.D. 35604-005

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : B-1 MW8-5
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED : 12-18-86
DATE RECEIVED : 12-19-86
DATE EXTRACTED: 12-27-86
DATE ANALYZED: 01-15-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

Analytical Technologies, Inc.

ATI I.D. 35604-005

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT : GREGG & ASSOCIATES
SAMPLE I.D. : B-1 MW8-5

PROJECT: CALAC 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	10
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	55 %
2-FLUOROBIPHENYL	78 %
TERPHENYL	104 %
PHENOL-D5	24 %
2-FLUOROPHENOL	110 %
2,4,6-TRIBROMOPHENOL	65 %

U indicates the compound was analyzed for but was not detected.

Analytical Technologies, Inc.

ATI I.D. 35604-005

SEMI-VOLATILE ORGANICS
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D.: B-1 MW8-5
SAMPLE MATRIX : WATER
UNITS: ug/L

DATE SAMPLED: 12-18-86
DATE RECEIVED : 12-19-86
DATE EXTRACTED: 12-27-86
DATE ANALYZED: 01-15-87
METHOD : EPA 625

COMPOUND NAME	RT OR SCAN NUMBER	ESTIMATED CONCENTRATION
PHTHALATE	2049	3
PHTHALATE	2410	3

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ATI I.D. 35604

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED: 12-27-86
DATE ANALYZED: 01-13-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

Analytical Technologies, Inc.

ATI I.D. 35604

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT : GREGG & ASSOCIATES
SAMPLE I.D. : REAGENT BLANK

PROJECT: CALAC 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	82 %
2-FLUOROBIPHENYL	86 %
TERPHENYL	140 %
PHENOL-D5	42 %
2-FLUOROPHENOL	60 %
2,4,6-TRIBROMOPHENOL	49 %

U indicates the compound was analyzed for but was not detected.

Analytical Technologies, Inc.

ATI I.D. 35604

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : REAGENT BLANK
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED : N/A
DATE RECEIVED : N/A
DATE EXTRACTED: 01-21-87
DATE ANALYZED: 01-23-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U

Analytical Technologies, Inc.

ATI I.D. 35604-001

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D.: B-1-MW8-1
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 12-18-86
DATE RECEIVED : 12-19-86
DATE EXTRACTED: 12-27-86
DATE ANALYZED: 01-15-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

Analytical Technologies, Inc.

ATI I.D. 35604-005

ORGANIC ANALYSIS DATA SHEET
PESTICIDES AND PCB

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D.: B-1-MW8-5
SAMPLE MATRIX: WATER
METHOD NO.: EPA 625
TECHNIQUE: GC/MS

DATE SAMPLED: 12-18-86
DATE RECEIVED : 12-19-86
DATE EXTRACTED: 12-27-86
DATE ANALYZED: 01-15-87
UNITS: ug/L

PARAMETER	DETECTION LIMITS	RESULTS
ALPHA-BHC	10	U
BETA-BHC	10	U
GAMMA-BHC (LINDANE)	10	U
DELTA-BHC	10	U
HEPTACHLOR	10	U
ALDRIN	10	U
HEPTACHLOR EPOXIDE	10	U
ALPHA CHLORDANE	10	U
GAMMA CHLORDANE	10	U
ENDOSULFAN I	10	U
TRANS-NONCHLOR	10	U
DIELDRIN	10	U
4,4'-DDE	10	U
ENDRIN	10	U
ENDOSULFAN II	10	U
4,4'-DDD	10	U
ENDOSULFAN SULFATE	10	U
4,4'-DDT	10	U
ENDRIN KETONE	10	U
METHOXYCHLOR	10	U
MONOCHLOROBIPHENYL	10	U
DICHLOROBIPHENYL	10	U
TRICHLOROBIPHENYL	10	U
TETRACHLOROBIPHENYL	10	U
PENTACHLOROBIPHENYL	10	U
HEXACHLOROBIPHENYL	10	U
HEPTACHLOROBIPHENYL	20	U
OCTACHLOROBIPHENYL	20	U
DECACHLOROBIPHENYL	20	U

U indicates the compound was analyzed for but not detected. The numerical value preceding "U" is the limit of detection for that compound, based on dilution.

AnalyticalTechnologies, Inc

ATI I.D. 35604

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
(con't)

CLIENT : GREGG & ASSOCIATES
SAMPLE I.D. : B-1 MW8-1

PROJECT: CALAC 86-106-022
UNITS:ug/L

PARAMETER	DETECTION LIMIT	RESULT
DIETHYLPHTHALATE	10	U
4-CHLOROPHENYL-PHENYLETHER	10	U
FLUORENE	10	U
4-NITROANILINE	50	U
4,6-DINITRO-2-METHYLPHENOL	50	U
N-NITROSODIPHENYLAMINE(1)	10	U
4-BROMOPHENYL-PHENYLETHER	10	U
HEXACHLOROBENZENE	10	U
PENTACHLOROPHENOL	50	U
PHENANTHRENE	10	U
ANTHRACENE	10	U
DI-N-BUTYLPHTHALATE	10	U
FLUORANTHENE	10	U
BENZIDINE	100	U
PYRENE	10	U
BUTYLBENZYLPHTHALATE	10	U
3,3-DICHLOROBENZIDINE	20	U
BENZO(a)ANTHRACENE	10	U
BIS(2-ETHYLHEXYL)PHTHALATE	10	U
CHRYSENE	10	U
DI-N-OCTYL PHTHALATE	10	U
BENZO (b)FLUORANTHENE	10	U
BENZO (k)FLUORANTHENE	10	U
BENZO(a)PYRENE	10	U
INDENO(1,2,3-cd)PYRENE	10	U
DIBENZ(a,h,)ANTHRACENE	10	U
BENZO(g,h,i)PERYLENE	10	U

SURROGATE RECOVERIES:

NITROBENZENE-D5	88 %
2-FLUOROBIPHENYL	80 %
TERPHENYL	114 %
PHENOL-D5	53 %
2-FLUOROPHENOL	62 %
2,4,6-TRIBROMOPHENOL	118 %

U indicates the compound was analyzed for but was not detected.

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AnalyticalTechnologies, Inc.
San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

Chain of Custody Record

DATE _____ PAGE _____ OF _____

CLIENT _____
ADDRESS _____
PROJECT _____
SAMPLERS (SIGNATURE) _____

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX	OTHER						NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature		Signature		Signature		Signature	
	TIME		TIME		TIME		TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Company		Company		Company		Company	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature		Signature		Signature		Signature	
	TIME		TIME		TIME		TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Company		Company		Company		Analytical Technologies, Inc.	

TOTAL NUMBER OF CONTAINERS

METHOD OF SHIPMENT

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

DISTRIBUTION: WHITE, CANARY - ANALYTICAL TECHNOLOGIES, INC. • PINK - ORIGINATOR

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Analytical **Technologies,** Inc.

San Diego, CA • Los Angeles, CA • Phoenix, AZ • Seattle, WA

Chain of Custody Record

DATE _____ PAGE _____ OF _____

CLIENT _____

ADDRESS _____

PROJECT

SAMPLERS (SIGNATURE)

SAMPLE NO	DATE	TIME	LOCATION	CAM METALS (18)	PR. POLLUTANT METALS (13)	GENERAL MINERALS	OIL & GREASE	PETROLEUM HYDROCARBONS	BASE/NEU/ACIDS (ORGANICS)	PESTICIDES	VOLATILE ORGANICS (601/602)	VOLATILE ORGANICS (624)	TOC/TOX	OTHER						NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature		Signature		Signature		Signature	
	TIME		TIME		TIME		TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Company		Company		Company		Company	

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE
Signature		Signature		Signature		Signature	
	TIME		TIME		TIME		TIME
Printed Name		Printed Name		Printed Name		Printed Name	
Company		Company		Company		Analytical Technologies, Inc.	

TOTAL NUMBER OF CONTAINERS

METHOD OF SHIPMENT

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

DISTRIBUTION: WHITE, CANARY - ANALYTICAL TECHNOLOGIES, INC. • PINK ORIGINATOR

RECEIVED MAR - 2 1987

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AnalyticalTechnologies, Inc. Corporate Offices 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141

ATI I.D.# 03601

February 27, 1987

Gregg & Associates
18351 Beach Blvd.
Huntington Beach, CA 92647

Project: LOCKHEED

Project No.: 86-106-022

Attention: Ferol Kimble

On February 4, 1987, Analytical Technologies, Inc. received eight (8) water samples for analyses. Eight (8) samples were analyzed for cyanide, total dissolved solids, sulfate, nitrate (as nitrogen), bicarbonate (as CaCO3), phosphate (as phosphorus), chloride, fluoride, calcium, manganese, sodium, potassium, magnesium, bromide, electrical conductivity, and volatile organics. Six (6) samples were analyzed for the California Administrative Code metals and total organic carbon. Two (2) samples were analyzed for the Priority Pollutant Metals, total phenols, and base/neutral and acid extractables including pesticides and polychlorinated biphenyls.

The calcium, manganese, sodium, potassium, and magnesium were analyzed using atomic emission spectroscopy/inductively coupled argon plasma in accordance with EPA method 6010. The nitrate (as nitrogen), sulfate, and phosphate were done using autoanalyzer in accordance with EPA methods 353.1, 375.2, and 365.1. The chloride and fluoride were analyzed in accordance with EPA methods 325.3 and 340.2. The electrical conductivity, total dissolved solids, and bicarbonate (as CaCO3) were analyzed in accordance with EPA methods 120.1, 160.1, and 310.1, respectively. The bromide was analyzed in accordance with EPA method 300.0.

The metals zinc, nickel, chromium, copper, silver, molybdenum, cobalt, vanadium, beryllium, and barium were analyzed using atomic emission spectroscopy by inductively coupled argon plasma in accordance with EPA method 6010. The metals arsenic, cadmium, lead, antimony, selenium, and thallium were analyzed using atomic absorption graphite furnace in accordance with EPA methods outlined in the 7000 series. The mercury was analyzed using cold vapor atomic absorption technique in accordance with EPA method 7471.

The cyanide and total phenols were analyzed in accordance with EPA methods 335.3 and 420.2, respectively.

The TOC was analyzed using Xertex/Dohrmann DC-80 carbon analyzer in accordance with EPA method 415.2.

The base/neutral and acid extractables including pesticides and polychlorinated biphenyls were analyzed using gas chromatography/ mass spectroscopy in accordance with EPA method 625. The volatile organics were analyzed using gas chromatography/mass spectroscopy in accordance with EPA method 624. Sample results have been corrected for constituents found in the reagent blank.

The results of these analyses and the quality control data are enclosed.

For: Marcilen Lindsey
Inorganics Supervisor

for: Richard M. Amano
Laboratory Manager

ML:mag

Enclosures

Note: The samples from this project will be disposed of 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.

ATI I.D.# 03601

DATA SHEET

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022
SAMPLE MATRIX: WATER

DATE SAMPLED: 2-03-87
DATE RECEIVED: 2-04-87
UNITS: mg/L

ATI SAMPLE I.D.	CLIENT SAMPLE I.D.	CYANIDE	TOTAL PHENOLS	TOTAL ORGANIC CARBON
-001	B-6-MW1-10	<0.01	<0.02	---
-002	B-6-MW1-2	<0.01	<0.02	---
-003	B-6-MW1-3	<0.01	---	1.0
-004	B-6-MW1-4	<0.01	---	0.9
-005	B-6-MW1-5	<0.01	---	0.6
-006	B-6-MW1-6	<0.01	---	1.7
-007	B-6-MW1-7	<0.01	---	0.5
-008	B-6-MW1-8	<0.01	---	0.7

Analytical Technologies, Inc.

ATI I.D.# 03601

GENERAL MINERALS

CLIENT: GREGG & ASSOC.
PROJECT: LOCKHEED 86-106-022

DATE RECEIVED: 1-04-87
SAMPLE MATRIX: WATER
UNITS: mg/L

CLIENT I.D. / PARAMETER	B-6-MW1-10	B-6-MW1-2	B-6-MW1-3	B-6-MW1-4
ATI I.D.	-001	-002	-003	-004
TOTAL DISSOLVED SOLIDS	460	400	460	390
SULFATE	64.0	80.0	70.0	64.0
NITRATE (AS NITROGEN)	10.6	5.0	6.4	1.7
BICARBONATE (AS CaCO3)	247	222	263	207
PHOSPHATE (AS PHOSPHORUS)	0.11	0.93	0.58	2.1
CHLORIDE	34.0	44.3	32.3	27.2
FLUORIDE	<0.5	<0.5	<0.5	0.5
CALCIUM	85.2	75.8	81.2	35.7
MANGANESE	<0.01	0.06	0.09	0.03
SODIUM	31.9	76.1	43.6	93.4
POTASSIUM	8.9	11.5	9.8	9.7
BROMIDE	<0.5	<0.5	<0.5	<0.5
ELECTRICAL CONDUCTIVITY (umhos/cm)	743	759	717	599

CLIENT I.D. / PARAMETER	B-6-MW1-5	B-6-MW1-6	B-6-MW1-7	B-6-MW1-8
ATI I.D.	-005	-006	-007	-008
TOTAL DISSOLVED SOLIDS	500	450	470	470
SULFATE	68.0	68.0	68.0	68.0
NITRATE (AS NITROGEN)	6.4	6.9	7.0	9.2
BICARBONATE (AS CaCO3)	232	253	253	237
PHOSPHATE (AS PHOSPHORUS)	0.14	0.11	0.10	0.07
CHLORIDE	27.2	28.9	28.9	28.9
FLUORIDE	<0.5	<0.5	<0.5	<0.5
CALCIUM	79.8	84.0	85.0	87.1
MANGANESE	0.01	<0.01	<0.01	<0.01
SODIUM	36.1	35.7	35.9	35.1
POTASSIUM	8.5	8.4	10.0	8.6
BROMIDE	<0.5	<0.5	<0.5	<0.5
ELECTRICAL CONDUCTIVITY (umhos/cm)	695	713	714	728

AnalyticalTechnologies, Inc.

ATI I.D. 35604-001

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT : GREGG & ASSOCIATES
PROJECT: CALAC 86-106-022
SAMPLE I.D. : B-1 MW8-1
SAMPLE MATRIX : WATER
UNITS :ug/L
DILUTION FACTOR : 2

DATE SAMPLED : 12-18-86
DATE RECEIVED : 12-19-86
DATE EXTRACTED: 12-27-86
DATE ANALYZED: 01-15-87
METHOD NO.:EPA 625

PARAMETER	DETECTION LIMIT	RESULT
N-NITROSODIMETHYLAMINE	10	U
PHENOL	10	U
ANILINE	10	U
BIS(2-CHLOROETHYL)ETHER	10	U
2-CHLOROPHENOL	10	U
1,3-DICHLOROBENZENE	10	U
1,4-DICHLOROBENZENE	10	U
BENZYL ALCOHOL	10	U
1,2-DICHLOROBENZENE	10	U
2-METHYLPHENOL	10	U
BIS(2-CHLOROISOPROPYL)ETHER	10	U
4-METHYLPHENOL	10	U
N-NITROSO-DI-N-PROPYLAMINE	10	U
HEXACHLOROETHANE	10	U
NITROBENZENE	10	U
ISOPHORONE	10	U
2-NITROPHENOL	10	U
2,4-DIMETHYLPHENOL	10	U
BENZOIC ACID	50	U
BIS(2-CHLOROETHOXY)METHANE	10	U
2,4-DICHLOROPHENOL	10	U
1,2,4-TRICHLOROBENZENE	10	U
NAPTHALENE	10	U
4-CHLOROANILINE	10	U
HEXACHLOROBUTADIENE	10	U
4-CHLORO-3-METHYLPHENOL	10	U
2-METHYLNAPHTHALENE	10	U
HEXACHLOROCYCLOPENTADIENE	10	U
2,4,6-TRICHLOROPHENOL	10	U
2,4,5-TRICHLOROPHENOL	50	U
2-CHLORONAPTHALENE	10	U
2-NITROANILINE	50	U
DIMETHYL PHTHALATE	10	U
ACENAPHTHYLENE	10	U
3-NITROANILINE	50	U
ACENAPHTHENE	10	U
2,4-DINITROPHENOL	50	U
4-NITROPHENOL	50	U
DIBENZOFURAN	10	U
2,4-DINITROTOLUENE	10	U
2,6-DINITROTOLUENE	10	U