MARCH 2002

03/11/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2030405-01/05

Enclosed are results for sample(s) received 3/04/02 by Advanced Technology Laboratories, Inc. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 3/08/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Air Toxics Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR: LEO W. WILLIAMSON	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID:	LABORATORY CONTACT: JOAN DE LA OSSA	MAIL REPORT (COMPANY NAME): GEOFON INC
PROJECT NAME: JPL #1	PROJECT LOCATION: JPL VE1	PROJECT NUMBER: 04-4304.480	LABORATORY PHONE: 626-964-4032	LABORATORY FAX: 626-964-5832	RECIPIENT NAME: LEO W. WILLIAMSON
PROJECT CONTACT: LEO W. WILLIAMSON	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 18501 E. GALE AVE #130		ADDRESS: 22632 GOLDEN SPRINGS DR #270
PROJECT ADDRESS: 4800 OAK GROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: CITY OF INDUSTRY CA 91748		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: BRAD FAHEEM	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 10-14								Comments A2030405
1	T4-VE1-A-12-01	AIR	3-4-02	1125	NONE	1*	3	NORM	X								1# L TEDLAR BAG. -01
																	SCREEN — A -02
2	T4-VE1-B-12-02			1130					X								SCREEN — B 02
3	T4-VE1-C-12-03			1135					X								SCREEN — C -03
4	T4-VE1-INN-12-04			1140					X								SCREEN — INFLUENT -04
5	T4-VE1-EFF-12-05			1145					X								SCREEN - EFFLUENT -05
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY	COURIER AND AIR BILL NUMBER:			COOLER TEMPERATURE UPON RECEIPT
RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Tony Mahmoud	TARESO ATL	3/14/02	12:45	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 03/04/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2030405-01		A2030405-02		A2030405-03		A2030405-04		A2030405-05	
Client Sample I.D.:		T4-VE1-A-12-01		T4-VE1-B-12-02		T4-VE1-C-12-03		T4-VE1-INN-12-04		T4-VE1-EFF-12-05	
Date Sampled:		03/04/02		03/04/02		03/04/02		03/04/02		03/04/02	
Date Analyzed:		03/05/02		03/05/02		03/05/02		03/05/02		03/05/02	
QC Batch No:		020305MS2A1		020305MS2A1		020305MS2A1		020305MS2A1		020305MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		3.0		3.0		1.0		2.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	6.4	3.0	4.7	3.0	ND	1.0	3.7	2.0	ND	1.0
Chloromethane	2.0	ND	6.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Vinyl Chloride	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Bromomethane	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Chloroethane	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Trichlorofluoromethane (11)	1.0	ND	3.0	50	3.0	133	1.0	62	2.0	ND	1.0
1,1-Dichloroethene	1.0	5.7	3.0	89	3.0	34	1.0	46	2.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	6.5	3.0	95	3.0	84	1.0	63	2.0	ND	1.0
Methylene Chloride	1.0	ND	3.0	ND	3.0	1.2	1.0	ND	2.0	ND	1.0
1,1-Dichloroethane	1.0	ND	3.0	ND	3.0	1.9	1.0	ND	2.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	3.0	ND	3.0	1.2	1.0	ND	2.0	ND	1.0
Chloroform	1.0	283	3.0	202	3.0	132	1.0	196	2.0	ND	1.0
1,1,1-Trichloroethane	1.0	4.3	3.0	18	3.0	10	1.0	10	2.0	ND	1.0
Carbon Tetrachloride	1.0	373	3.0	465	3.0	250	1.0	349	2.0	ND	1.0
Benzene	1.0	ND	3.0	ND	3.0	ND	1.0	2.3	2.0	2.0	1.0
1,2-Dichloroethane	1.0	ND	3.0	ND	3.0	1.3	1.0	ND	2.0	ND	1.0
Trichloroethene	1.0	ND	3.0	85	3.0	217	1.0	119	2.0	ND	1.0
1,2-Dichloropropane	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Toluene	1.0	56	3.0	78	3.0	55	1.0	2.3	2.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Tetrachloroethene	1.0	4.5	3.0	37	3.0	22	1.0	29	2.0	ND	1.0
1,2-Dibromoethane	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Chlorobenzene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Ethylbenzene	1.0	5.5	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
p,&m-Xylene	1.0	26	3.0	4.9	3.0	2.0	1.0	3.2	2.0	ND	1.0
o-Xylene	1.0	8.9	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Styrene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	6.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	6.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	6.7	6.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	6.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
Hexachlorobutadiene	1.0	ND	3.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 3-8-02

The cover letter is an integral part of this analytical report

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020305MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	03/05/02		03/05/02		03/05/02						
Data File ID:	05MAR008.D		05MAR003.D		05MAR004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.5	105	10.6	106	1.5	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.6	116	11.6	116	0.2	70	130	30	Pass
Trichloroethene	0.0	10.0	9.5	95	9.7	97	1.9	70	130	30	Pass
Toluene	0.0	10.0	9.1	91	9.2	92	0.1	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	7.3	73	7.5	75	2.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson **Date:** 3-8-02

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

MAR 25 2002

03/22/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL#1
Lab Number: A2031103-01/06

Enclosed are results for sample(s) received 3/11/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 3/20/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
LED W. WILLIAMSON	909-396-7662	909-396-7455		JOAN DE LA OSSA	GEOFON INC

PROJECT NAME:	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL #1	JPL VEI	04-4304.480	626-964-4032	626-964-5832	LED W. WILLIAMSON

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
LED W. WILLIAMSON	714-920-8438	N/A	18501 E. GALE AVE #130	22632 GOLDEN SPRINGS DR #270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAKGROVE DR.	PASADENA CA	US NAVY SWDIV	CITY OF INDUSTRY CA 91748	DIAMOND BAR CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
ASRAR FAHEEM	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses TO-14								Comments A2031103
1	T4-VEI-INN-13-01	AIR	3-1-02	1125	None	1*	3	NORM	X								1* L TEDLAR BAG. 01 SCREEN - INFLUENT
2	T4-VEI-EFF-13-02			1130					X								SCREEN - EFFLUENT 02
3	T4-VEI-P1EFF-13-03			1135					X								PRIMARY 1 EFFLUENT 03
4	T4-VEI-P2EFF-13-04			1140					X								PRIMARY 2 EFFLUENT 04
5	T4-VEI-S1EFF-13-05			1145					X								SECONDARY 1 EFFLUENT 05
6	T4-VEI-S2EFF-13-06			1150					X								SECONDARY 2 EFFLUENT 06
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: [signature]

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	3/1/02	13:30	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 03/11/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2031103-01		A2031103-02		A2031103-03		A2031103-04		A2031103-05	
Client Sample I.D.:		T4-VE1-INN-13-01		T4-VE1-EFF-13-02		T4-VE1-P1EFF-13-03		T4-VE1-P2EFF-13-04		T4-VE1-S1EFF-13-05	
Date Sampled:		03/11/02		03/11/02		03/11/02		03/11/02		03/11/02	
Date Analyzed:		03/13/02		03/13/02		03/13/02		03/13/02		03/13/02	
QC Batch No:		020313MS2A1		020313MS2A1		020313MS2A1		020313MS2A1		020313MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		2.0		1.0		1.0		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.9	2.0	14	1.0	5.2	1.0	4.8	1.0	9.7	1.0
Chloromethane	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	2.0	ND	1.0	ND	1.0	2.1	1.0	ND	1.0
Bromomethane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	72	2.0	ND	1.0	56	1.0	73	1.0	ND	1.0
1,1-Dichloroethene	1.0	49	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	66	2.0	ND	1.0	26	1.0	50	1.0	2.0	1.0
Methylene Chloride	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	204	2.0	ND	1.0	1.2	1.0	ND	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	10	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Carbon Tetrachloride	1.0	307	2.0	ND	1.0	3.0	1.0	1.5	1.0	ND	1.0
Benzene	1.0	4.3	2.0	2.0	1.0	49	1.0	1.1	1.0	16	1.0
1,2-Dichloroethane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	133	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	4.8	2.0	ND	1.0	26	1.0	28	1.0	83	1.0
t-1,3-Dichloropropene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	32	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	2.6	2.0	ND	1.0	1.0	1.0	ND	1.0	2.1	1.0
p,&m-Xylene	1.0	10	2.0	ND	1.0	3.8	1.0	1.7	1.0	6.7	1.0
o-Xylene	1.0	3.5	2.0	ND	1.0	2.0	1.0	ND	1.0	8.4	1.0
Styrene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0	4.6	2.0
1,2,4-Trimethylbenzene	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0	8.2	2.0
1,3-Dichlorobenzene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: _____ Date 3-20-02

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 03/11/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2031103-06									
Client Sample I.D.:		T4-VE1-S2EFF-13-06									
Date Sampled:		03/11/02									
Date Analyzed:		03/13/02									
QC Batch No:		020313MS2A1									
Analyst Initials:		SC									
Dilution Factor:		1.0									
ANALYTE	**MDL**	**Result**	**RL**								
Dichlorodifluoromethane (12)	1.0	9.7	1.0								
Chloromethane	2.0	ND	2.0								
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0								
Vinyl Chloride	1.0	1.9	1.0								
Bromomethane	1.0	ND	1.0								
Chloroethane	1.0	ND	1.0								
Trichlorofluoromethane (11)	1.0	ND	1.0								
1,1-Dichloroethene	1.0	ND	1.0								
1,1,2-Cl 1,2,2-F ethane (113)	1.0	1.4	1.0								
Methylene Chloride	1.0	ND	1.0								
1,1-Dichloroethane	1.0	ND	1.0								
c-1,2-Dichloroethene	1.0	ND	1.0								
Chloroform	1.0	ND	1.0								
1,1,1-Trichloroethane	1.0	ND	1.0								
Carbon Tetrachloride	1.0	ND	1.0								
Benzene	1.0	1.2	1.0								
1,2-Dichloroethane	1.0	ND	1.0								
Trichloroethene	1.0	ND	1.0								
1,2-Dichloropropane	1.0	ND	1.0								
c-1,3-Dichloropropene	1.0	ND	1.0								
Toluene	1.0	5.8	1.0								
t-1,3-Dichloropropene	1.0	ND	1.0								
1,1,2-Trichloroethane	1.0	ND	1.0								
Tetrachloroethene	1.0	ND	1.0								
1,2-Dibromoethane	1.0	ND	1.0								
Chlorobenzene	1.0	ND	1.0								
Ethylbenzene	1.0	ND	1.0								
p,&m-Xylene	1.0	1.7	1.0								
o-Xylene	1.0	ND	1.0								
Styrene	1.0	ND	1.0								
1,1,2,2-Tetrachloroethane	2.0	ND	2.0								
1,3,5-Trimethylbenzene	2.0	ND	2.0								
1,2,4-Trimethylbenzene	2.0	ND	2.0								
1,3-Dichlorobenzene	1.0	ND	1.0								
1,4-Dichlorobenzene	1.0	ND	1.0								
1,2-Dichlorobenzene	1.0	ND	1.0								
1,2,4-Trichlorobenzene	2.0	ND	2.0								
Hexachlorobutadiene	1.0	ND	1.0								

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: _____ Date 3-20-02

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Advanced Technology Laboratories *18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832*

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020313MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	03/13/02		03/13/02		03/13/02						
Data File ID:	13MAR005.D		13MAR015.D		13MAR016.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.2	102	9.9	99	2.9	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.4	114	10.8	108	4.7	70	130	30	Pass
Trichloroethene	0.0	10.0	8.8	88	8.6	86	1.5	70	130	30	Pass
Toluene	0.0	10.0	8.8	88	8.5	85	3.5	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	7.9	79	7.8	78	1.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson
Air Toxics Operations Manager

Date: 3-20-02

The cover letter is an integral part of this analytical report

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

APR 04 2002

03/27/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2031908-01/05

Enclosed are results for sample(s) received 3/19/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 3/26/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR: LEO W. WILLIAMSON	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID:	LABORATORY CONTACT: JOAN DE LA OSSA	MAIL REPORT (COMPANY NAME): GEOFON INC
PROJECT NAME: JPL #1	PROJECT LOCATION: JPL VE1	PROJECT NUMBER: 04-4304.480	LABORATORY PHONE: 626-964-4032	LABORATORY FAX: 626-964-5832	RECIPIENT NAME: LEO W. WILLIAMSON
PROJECT CONTACT: LEO W. WILLIAMSON	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 18501 E. GALE AVE #130		ADDRESS: 22632 GOLDEN SPRINGS DR #270
PROJECT ADDRESS: 4800 OAKGROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: CITY OF INDUSTRY CA 91748		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: ASLAR FAHRAM	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses TO-14	Comments A203 19.08
1	T4-VE1-A-14-01	AIR	3-19-02	1155	NONE	1*	3	NORM	X	1 *L TEDLAR BAG SCREEN - A 01
2	T4-VE1-B-14-02			1200					X	SCREEN - B 02
3	T4-VE1-C-14-03			1205					X	SCREEN - C 03
4	T4-VE1-INN-14-04			1210					X	SCREEN - INN 04
5	T4-VE1-EFF-14-05			1215					X	SCREEN - EFFLUENT 05
6										
7										
8										
9										
10										

SAMPLES COLLECTED BY: [signature]

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	3/19/02	14:00	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 03/19/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2031908-01		A2031908-02		A2031908-03		A2031908-04		A2031908-05	
Client Sample I.D.:		T4-VE1-A-14-01		T4-VE1-B-14-02		T4-VE1-C-14-03		T4-VE1-INN-14-04		T4-VE1-EFF-14-05	
Date Sampled:		03/19/02		03/19/02		03/19/02		03/19/02		03/19/02	
Date Analyzed:		03/21/02		03/20/02		03/20/02		03/20/02		03/20/02	
QC Batch No:		020321MS2A1		020320MS2A1		020320MS2A1		020320MS2A1		020320MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		2.0		2.0		1.0		2.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	6.0	2.0	3.6	2.0	1.3	1.0	3.9	2.0	11	1.0
Chloromethane	2.0	ND	4.0	ND	4.0	2.3	2.0	ND	4.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Vinyl Chloride	1.0	ND	2.0	ND	2.0	1.6	1.0	ND	2.0	ND	1.0
Bromomethane	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Chloroethane	1.0	ND	2.0	ND	2.0	1.6	1.0	ND	2.0	ND	1.0
Trichlorofluoromethane (11)	1.0	ND	2.0	43	2.0	143	1.0	76	2.0	53	1.0
1,1-Dichloroethene	1.0	7.4	2.0	57	2.0	30	1.0	42	2.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	7.0	2.0	66	2.0	71	1.0	60	2.0	6.1	1.0
Methylene Chloride	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	1.3	1.0
1,1-Dichloroethane	1.0	ND	2.0	ND	2.0	1.7	1.0	ND	2.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	2.0	ND	2.0	1.2	1.0	ND	2.0	ND	1.0
Chloroform	1.0	254	2.0	123	2.0	107	1.0	185	2.0	ND	1.0
1,1,1-Trichloroethane	1.0	3.6	2.0	11	2.0	6.9	1.0	9.5	2.0	ND	1.0
Carbon Tetrachloride	1.0	190	2.0	273	2.0	174	1.0	265	2.0	ND	1.0
Benzene	1.0	ND	2.0	ND	2.0	ND	1.0	7.4	2.0	2.2	1.0
1,2-Dichloroethane	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Trichloroethene	1.0	2.7	2.0	48	2.0	187	1.0	121	2.0	ND	1.0
1,2-Dichloropropane	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Toluene	1.0	63	2.0	76	2.0	86	1.0	3.0	2.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Tetrachloroethene	1.0	5.7	2.0	18	2.0	15	1.0	34	2.0	ND	1.0
1,2-Dibromoethane	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Chlorobenzene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Ethylbenzene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
p,&m-Xylene	1.0	6.6	2.0	5.3	2.0	2.1	1.0	5.1	2.0	ND	1.0
o-Xylene	1.0	2.3	2.0	2.1	2.0	1.0	1.0	2.3	2.0	ND	1.0
Styrene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	4.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	4.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	4.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	4.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
Hexachlorobutadiene	1.0	ND	2.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 3-26-02

The cover letter is an integral part of this analytical report

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020320MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	03/20/02		03/20/02		03/20/02						
Data File ID:	20MAR005.D		20MAR003.D		20MAR004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.6	116	11.4	114	1.8	70	130	30	Pass
Methylene Chloride	0.0	10.0	12.6	126	12.6	126	0.5	70	130	30	Pass
Trichloroethene	0.0	10.0	9.0	90	8.8	88	2.1	70	130	30	Pass
Toluene	0.0	10.0	10.1	101	9.9	99	1.5	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.4	94	9.4	94	0.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson
Air Toxics Operations Manager

Date: 3-26-02

The cover letter is an integral part of this analytical report

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020321MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	03/21/02		03/21/02		03/21/02						
Data File ID:	21MAR006.D		21MAR004.D		21MAR014.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.5	115	11.0	110	4.2	70	130	30	Pass
Methylene Chloride	0.0	10.0	12.9	129	12.4	124	4.4	70	130	30	Pass
Trichloroethene	0.0	10.0	9.1	91	8.7	87	4.3	70	130	30	Pass
Toluene	0.0	10.0	10.3	103	9.8	98	4.8	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.4	94	9.0	90	4.5	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson
Air Toxics Operations Manager

Date: 3-26-02

The cover letter is an integral part of this analytical report

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

APR 10 2002

04/02/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2032503-01/02

Enclosed are results for sample(s) received 3/25/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 4/02/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON's LAB COORDINATOR: LEO W WILLIAMSON	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID:	LABORATORY CONTACT: JOAN DE LA OSSA	MAIL REPORT (COMPANY NAME): GEOFON INC
PROJECT NAME: JPL #1	PROJECT LOCATION: JPL - VEI	PROJECT NUMBER: 04-4304-480	LABORATORY PHONE: 626-964-4032	LABORATORY FAX: 626-964-5832	RECIPIENT NAME: LEO W. WILLIAMSON
PROJECT CONTACT: LEO W WILLIAMSON	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 18501 E. GALE AVE #130		ADDRESS: 22632 GOLDEN SPRINGS DR. #270
PROJECT ADDRESS: 4800 OAKGROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: CITY OF INDUSTRY CA 91748		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: ASRAR PAHEZOM	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses: TO-14	Comments A2032503
1	T4-VEI-INN-15-01	AIR	3-25-02	1140	NONE	1*	3	NORM	X	1* L TEDLAR BAG 01 SCRUBBER — INFLUENT
2	T4-VEI-EFF-15-02	AIR	3-25-02	1145	NONE	1*	3	NORM	X	SCRUBBER — EFFLUENT 02
3										
4										
5										
6										
7										
8										
9										
10										

SAMPLES COLLECTED BY: [signature]

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	3/25/02	1540	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 03/25/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2032503-01		A2032503-02	
Client Sample I.D.:		T4-VE1-INN-15-01		T4-VE1-EFF-15-02	
Date Sampled:		03/25/02		03/25/02	
Date Analyzed:		03/26/02		03/26/02	
QC Batch No:		020326MS2A1		020326MS2A1	
Analyst Initials:		SC		SC	
Dilution Factor:		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.9	1.0	9.3	1.0
Chloromethane	2.0	ND	2.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	83	1.0	67	1.0
1,1-Dichloroethene	1.0	46	1.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	70	1.0	17	1.0
Methylene Chloride	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	1.7	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0
Chloroform	1.0	201	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	11	1.0	ND	1.0
Carbon Tetrachloride	1.0	283*	2.0	ND	1.0
Benzene	1.0	2.6	1.0	1.4	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	127	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
Toluene	1.0	1.2	1.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	27	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor
* = Dilution factor of 2

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 4-2-02

The cover letter is an integral part of this analytical report

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020326MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	03/26/02		03/26/02		03/26/02						
Data File ID:	26MAR005.D		26MAR003.D		26MAR004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	11.0	110	11.0	110	0.8	70	130	30	Pass
Methylene Chloride	0.0	10.0	12.5	125	12.5	125	0.2	70	130	30	Pass
Trichloroethene	0.0	10.0	8.4	84	8.5	85	1.2	70	130	30	Pass
Toluene	0.0	10.0	9.3	93	9.2	92	0.8	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.8	88	8.7	87	0.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson
Air Toxics Operations Manager

Date: 4-2-02

The cover letter is an integral part of this analytical report

Advanced Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

APRIL 2002

C APR 18 2002

04/09/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2040102-01/05

Enclosed are results for sample(s) received 4/01/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 4/08/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

A2040102

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
LEO W. WILLIAMSON	909-396-7662	909-396-1455		JOAN DE LA OSSA	GEOFON INC.

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL #1	JPL - VEI	04-4304.480	626-964-4032	626-964-5832	LEO W. WILLIAMSON

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
LEO W. WILLIAMSON	714-920-8438	N/A	18501 E. GALE AVE #130	22632 GOLDEN SPRINGS DR #270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAK GROVE DR	PASADENA CA	US NAVY SWDIV	CITY OF INDUSTRY CA 91748	DIAMOND BAR CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
ASRAR FAHEEM	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses: 10-14								Comments
1	T4-VEI-A-16-01	AIR	4/1/02	1030	NONE	1*	~~[illegible]~~ 3	NORM	X								1* L TEDLAR BAG SCREEN - A
2	T4-VEI-B-16-02			1035					X								SCREEN - B
3	T4-VEI-C-16-03			1040					X								SCREEN - C
4	T4-VEI-INN-16-04			1045					X								SCREEN - INFLUENT
5	T4-VEI-EFF-16-05			1050					X								SCREEN - EFFLUENT
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: [signature]

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	4-1-02	12:05	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 04/01/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2040102-01		A2040102-02		A2040102-03		A2040102-04		A2040102-05	
Client Sample I.D.:		T4-VE1-A-16-01		T4-VE1-B-16-02		T4-VE1-C-16-03		T4-VE1-INN-16-04		T4-VE1-EFF-16-05	
Date Sampled:		04/01/02		04/01/02		04/01/02		04/01/02		04/01/02	
Date Analyzed:		04/02/02		04/02/02		04/02/02		04/02/02		04/02/02	
QC Batch No:		020402MS2A1		020402MS2A1		020402MS2A1		020402MS2A1		020402MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		2.0		3.0		1.0		2.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	6.3	2.0	4.2	3.0	ND	1.0	3.8	2.0	6.2	1.0
Chloromethane	2.0	ND	4.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Vinyl Chloride	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Bromomethane	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Chloroethane	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Trichlorofluoromethane (11)	1.0	ND	2.0	51	3.0	127	1.0	76	2.0	94	1.0
1,1-Dichloroethene	1.0	7.5	2.0	73	3.0	24	1.0	43	2.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	7.7	2.0	89	3.0	70	1.0	67	2.0	41	1.0
Methylene Chloride	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,1-Dichloroethane	1.0	ND	2.0	ND	3.0	1.5	1.0	ND	2.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Chloroform	1.0	257	2.0	151	3.0	92	1.0	188	2.0	ND	1.0
1,1,1-Trichloroethane	1.0	3.3	2.0	16	3.0	5.5	1.0	10	2.0	ND	1.0
Carbon Tetrachloride	1.0	136	2.0	352	3.0	162	1.0	260	2.0	ND	1.0
Benzene	1.0	ND	2.0	ND	3.0	ND	1.0	7.4	2.0	2.2	1.0
1,2-Dichloroethane	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Trichloroethene	1.0	4.0	2.0	66	3.0	149	1.0	127	2.0	ND	1.0
1,2-Dichloropropane	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Toluene	1.0	41	2.0	64	3.0	39	1.0	2.7	2.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Tetrachloroethene	1.0	2.8	2.0	20	3.0	11	1.0	26	2.0	ND	1.0
1,2-Dibromoethane	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Chlorobenzene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Ethylbenzene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
p,&m-Xylene	1.0	5.0	2.0	7.3	3.0	1.4	1.0	4.1	2.0	ND	1.0
o-Xylene	1.0	2.1	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
Styrene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	4.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	4.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	4.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	4.0	ND	6.0	ND	2.0	ND	4.0	ND	2.0
Hexachlorobutadiene	1.0	ND	2.0	ND	3.0	ND	1.0	ND	2.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: for Mark Johnson
Air Toxics Operations Manager

Date 04-08-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020402MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	04/02/02		04/02/02		04/02/02						
Data File ID:	02APR005.D		02APR003.D		02APR004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.7	107	10.5	105	1.3	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.7	117	11.6	116	0.3	70	130	30	Pass
Trichloroethene	0.0	10.0	8.1	81	8.3	83	2.3	70	130	30	Pass
Toluene	0.0	10.0	8.8	88	8.8	88	0.1	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.4	84	8.6	86	2.5	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 04-08-02

for Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

APR 22 2002

04/17/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2040905-01/06

Enclosed are results for sample(s) received 4/09/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 4/16/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
ED W. WILLIAMSON	909-396-7662	909-396-1455		JOAN DE LA OSSA	GEOFON INC

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL #1	JPL - VEI	04-4304.480	626-964-4032	626-964-5832	ED W. WILLIAMSON

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
ED W. WILLIAMSON	714-920-8438	N/A	18501 E. GALE AVE #130	22632 GOLDEN SPRINGS DR. #270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAK GROVE DR	PASADENA CA	US NAVY SWDIV	CITY OF INDUSTRY CA 91748	DIAMOND BAR CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
ASRAR FAHEEM	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses TO-14	Comments A2040905-
1	T4-VEI-INN-17-01	AIR	4/9/02	1100	NONE	1*	3	NORM	X	1*L TEDLAR BAG 01 SCREEN - INFLUENT
2	T4-VEI-EFF-17-02			1105					X	SCREEN - EFFLUENT 02
3	T4-VEI-P1EFF-17-03			1110					X	SCREEN - PRIMARY 1 EFFLUENT 03
4	T4-VEI-P2EFF-17-04			1115					X	SCREEN - PRIMARY 2 EFFLUENT 04
5	T4-VEI-S1EFF-17-05			1120					X	SCREEN - SECONDARY 1 EFFLUENT 05
6	T4-VEI-S2EFF-17-06			1125					X	SCREEN - SECONDARY 2 EFFLUENT 06
7										
8										
9										
10										

SAMPLES COLLECTED BY	COURIER AND AIR BILL NUMBER	COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
	Gayala	4/9/02	12:50	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 04/09/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2040905-01		A2040905-02		A2040905-03		A2040905-04		A2040905-05	
Client Sample I.D.:		T4-VE1-INN-17-01		T4-VE1-EFF-17-02		T4-VE1-P1EFF-17-03		T4-VE1-P2EFF-17-04		T4-VE1-S1EFF-17-05	
Date Sampled:		04/09/02		04/09/02		04/09/02		04/09/02		04/09/02	
Date Analyzed:		04/10/02		04/10/02		04/10/02		04/10/02		04/10/02	
QC Batch No:		020410MS2A1		020410MS2A1		020410MS2A1		020410MS2A1		020410MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.8	1.0	8.0	1.0	4.7	1.0	3.9	1.0	5.2	1.0
Chloromethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	76	1.0	176	1.0	132	1.0	107	1.0	134	1.0
1,1-Dichloroethene	1.0	44	1.0	ND	1.0	7.1	1.0	19	1.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	65	1.0	118	1.0	128	1.0	112	1.0	95	1.0
Methylene Chloride	1.0	ND	1.0	1.5	1.0	ND	1.0	ND	1.0	1.2	1.0
1,1-Dichloroethane	1.0	1.7	1.0	ND	1.0	ND	1.0	1.3	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	191	1.0	ND	1.0	4.7	1.0	18	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	11	1.0	ND	1.0	ND	1.0	1.4	1.0	ND	1.0
Carbon Tetrachloride	1.0	250	1.0	ND	1.0	5.5	1.0	22	1.0	ND	1.0
Benzene	1.0	4.2	1.0	1.6	1.0	19	1.0	ND	1.0	15	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	130	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	1.2	1.0	ND	1.0	6.0	1.0	9.7	1.0	26	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	26	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	ND	1.0	1.4	1.0	1.0	1.0	3.0	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	3.4	1.0
Styrene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	3.7	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 4-16-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 04/09/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:	A2040905-06
Client Sample I.D.:	T4-VE1-S2EFF-17-06
Date Sampled:	04/09/02
Date Analyzed:	04/10/02
QC Batch No:	020410MS2A1
Analyst Initials:	SC
Dilution Factor:	1.0

ANALYTE	MDL	Result	RL
Dichlorodifluoromethane (12)	1.0	5.3	1.0
Chloromethane	2.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0
Vinyl Chloride	1.0	1.6	1.0
Bromomethane	1.0	ND	1.0
Chloroethane	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	116	1.0
1,1-Dichloroethene	1.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	96	1.0
Methylene Chloride	1.0	ND	1.0
1,1-Dichloroethane	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0
Chloroform	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	ND	1.0
Carbon Tetrachloride	1.0	ND	1.0
Benzene	1.0	ND	1.0
1,2-Dichloroethane	1.0	ND	1.0
Trichloroethene	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0
Toluene	1.0	3.4	1.0
t-1,3-Dichloropropene	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0
Tetrachloroethene	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0
p,&m-Xylene	1.0	1.2	1.0
o-Xylene	1.0	ND	1.0
Styrene	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 4-16-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020410MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	04/10/02		04/10/02		04/10/02						
Data File ID:	10APR006.D		10APR004.D		10APR005.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.7	107	10.9	109	2.0	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.3	113	12.2	122	7.3	70	130	30	Pass
Trichloroethene	0.0	10.0	8.0	80	8.2	82	3.5	70	130	30	Pass
Toluene	0.0	10.0	8.8	88	8.9	89	1.5	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	7.8	78	8.2	82	5.0	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson
Air Toxics Operations Manager

Date: 4-16-02

The cover letter is an integral part of this analytical report

MAY 06 2002

04/30/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2041502-01/05

Enclosed are results for sample(s) received 4/15/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 4/22/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR: LED W. WILLIAMSON	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID:	LABORATORY CONTACT: JOAN DE LA OSSA	MAIL REPORT (COMPANY NAME): GEOFON INC
PROJECT NAME: JPL #1	PROJECT LOCATION: JPL-VE1	PROJECT NUMBER: 04-4304.480	LABORATORY PHONE: 626-964-4032	LABORATORY FAX: 626-964-5832	RECIPIENT NAME: LED W. WILLIAMSON
PROJECT CONTACT: LED W. WILLIAMSON	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 18501 E. GALE AVE #130		ADDRESS: 22632 GOLDEN SPRINGS DR #270
PROJECT ADDRESS: 4800 OAK GROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: CITY OF INDUSTRY CA 91748		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: ASLAM FAHRONI	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TO-14								Comments A204150 2
1	T4-VE1-A-18-01	AIR	4/15/02	1130	NONE	1*	3	NORM	X								1*L TEDLAR BAG SCREEN - A 01
2	T4-VE1-B-18-02			1135					X								SCREEN - B 02
3	T4-VE1-C-18-03			1140					X								SCREEN - C 03
4	T4-VE1-INN-18-04			1145					X								SCREEN - INFLUENT 04
5	T4-VE1-EFF-18-05			1150					X								SCREEN - EFFLUENT 05
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY:	COURIER AND AIR BILL NUMBER:			COOLER TEMPERATURE UPON RECEIPT
RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
		4/15/02	13:05	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 04/15/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2041502-01		A2041502-02		A2041502-03		A2041502-04		A2041502-05	
Client Sample I.D.:		T4-VE1-A-18-01		T4-VE1-B-18-02		T4-VE1-C-18-03		T4-VE1-INN-18-04		T4-VE1-EFF-18-05	
Date Sampled:		04/15/02		04/15/02		04/15/02		04/15/02		04/15/02	
Date Analyzed:		04/16/02		04/16/02		04/16/02		04/16/02		04/16/02	
QC Batch No:		020416MS2A1		020416MS2A1		020416MS2A1		020416MS2A1		020416MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		2.0		1.0		2.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	5.4	1.0	4.8	2.0	1.1	1.0	4.0	2.0	2.9	1.0
Chloromethane	2.0	ND	2.0	ND	4.0	2.1	2.0	ND	4.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	2.0	1.0	1.0	ND	2.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Trichlorofluoromethane (11)	1.0	8.4	1.0	41	2.0	130	1.0	71	2.0	54	1.0
1,1-Dichloroethene	1.0	11	1.0	65	2.0	26	1.0	43	2.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	12	1.0	75	2.0	77	1.0	65	2.0	19	1.0
Methylene Chloride	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,1-Dichloroethane	1.0	ND	1.0	ND	2.0	1.6	1.0	ND	2.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Chloroform	1.0	227	1.0	120	2.0	99	1.0	169	2.0	ND	1.0
1,1,1-Trichloroethane	1.0	3.5	1.0	16	2.0	6.0	1.0	11	2.0	ND	1.0
Carbon Tetrachloride	1.0	113	1.0	292	2.0	177	1.0	243	2.0	ND	1.0
Benzene	1.0	ND	1.0	ND	2.0	ND	1.0	3.5	2.0	1.2	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Trichloroethene	1.0	15	1.0	52	2.0	165	1.0	121	2.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Toluene	1.0	23	1.0	29	2.0	18	1.0	ND	2.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Tetrachloroethene	1.0	3.0	1.0	16	2.0	12	1.0	23	2.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
o-Xylene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
Styrene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	4.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	2.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 4-22-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020416MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	04/16/02		04/16/02		04/16/02						
Data File ID:	16APR005.D		16APR003.D		16APR004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.5	105	10.9	109	3.3	70	130	30	Pass
Methylene Chloride	0.0	10.0	11.8	118	12.1	121	1.8	70	130	30	Pass
Trichloroethene	0.0	10.0	8.1	81	8.1	81	0.2	70	130	30	Pass
Toluene	0.0	10.0	9.0	90	8.9	89	1.2	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	8.7	87	8.7	87	0.1	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson **Date:** 4-22-02

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

MAY 06 2002

04/30/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2042203-01

Enclosed are results for sample(s) received 4/22/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 4/30/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
LEO W. WILLIAMSON	909-396-7662	909-396-1455		JOAN DE LA OSSA	GEOFON INC

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL #1	JPL - VEI	04-4304-480	626-964-4032	626-964-5837	LEO W. WILLIAMSON

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
LEO W. WILLIAMSON	714-920-8438	N/A	18501 E. GALE AVE #130	22632 GOLDEN SPRINGS DR #270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAK GROVE DR	PASADENA CA	US NAVY SWDIV	CITY OF INDUSTRY, CA 91748	DIAMOND BAR CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
ASLAN FATHZAM	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses TO-14								Comments A2042203
1	T4-VEI-INN-19-01	AIR	4/22/02	1130	NONE	1*	3	NORM	X								1*L TEDLAR BAG -01 SCREEN - INFLUENT
2	T4-VEI-EFF-19-02	AIR	4/22/02	1135	NONE	1*	3	NORM	X								SCREEN - EFFLUENT -02
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: Tony Mohamed

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Tony Mohamed	[illegible]	4/22/02	12:35	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 04/22/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2042203-01		A2042203-02							
Client Sample I.D.:		T4-VE1-INN-19-01		T4-VE1-EFF-19-02							
Date Sampled:		04/22/02		04/22/02							
Date Analyzed:		04/24/02		04/24/02							
QC Batch No:		020424MS2A1		020424MS2A1							
Analyst Initials:		SC		SC							
Dilution Factor:		1.0		1.0							
ANALYTE	MDL	Result	RL	Result	RL						
Dichlorodifluoromethane (12)	1.0	4.6	1.0	8.9	1.0						
Chloromethane	2.0	ND	2.0	ND	2.0						
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0						
Vinyl Chloride	1.0	ND	1.0	ND	1.0						
Bromomethane	1.0	ND	1.0	ND	1.0						
Chloroethane	1.0	ND	1.0	ND	1.0						
Trichlorofluoromethane (11)	1.0	61	1.0	162	1.0						
1,1-Dichloroethene	1.0	36	1.0	ND	1.0						
1,1,2-Cl 1,2,2-F ethane (113)	1.0	46	1.0	114	1.0						
Methylene Chloride	1.0	1.3	1.0	ND	1.0						
1,1-Dichloroethane	1.0	1.6	1.0	ND	1.0						
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0						
Chloroform	1.0	132	1.0	ND	1.0						
1,1,1-Trichloroethane	1.0	8.7	1.0	ND	1.0						
Carbon Tetrachloride	1.0	199	1.0	ND	1.0						
Benzene	1.0	4.1	1.0	4.8	1.0						
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0						
Trichloroethene	1.0	133	1.0	ND	1.0						
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0						
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0						
Toluene	1.0	2.1	1.0	ND	1.0						
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0						
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0						
Tetrachloroethene	1.0	23	1.0	ND	1.0						
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0						
Chlorobenzene	1.0	ND	1.0	ND	1.0						
Ethylbenzene	1.0	ND	1.0	ND	1.0						
p,&m-Xylene	1.0	1.7	1.0	ND	1.0						
o-Xylene	1.0	ND	1.0	ND	1.0						
Styrene	1.0	ND	1.0	ND	1.0						
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0						
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0						
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0						
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0						
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0						
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0						
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0						
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0						

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: _____ Date 4-30-02
Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020424MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	04/24/02		04/24/02		04/24/02						
Data File ID:	24APR005.D		24APR003.D		24APR004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.7	97	9.8	98	1.3	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.5	95	9.3	93	1.6	70	130	30	Pass
Trichloroethene	0.0	10.0	9.6	96	9.1	91	5.6	70	130	30	Pass
Toluene	0.0	10.0	9.6	96	9.2	92	4.2	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.5	105	10.2	102	3.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ **Date:** 4-30-02

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

MAY 14 2002 C2

05/09/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2042905-01/05

Enclosed are results for sample(s) received 4/29/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 5/09/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
ED W. WILLIAMSON	909-396-7662	909-396-1455		JOAN DE LA OSSA	GEOFON INC

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL #1	JPL-VEI	04-4304.480	626-964-4032	626-964-5832	ED W. WILLIAMSON

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
EDW. WILLIAMSON	714-920-8438	N/A	18501 E. GALE AVE #130	22632 GOLDEN SPRINGS DR #270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAKGROVE DR	PASADENA CA	US NAVY SWDIV	CITY OF INDUSTRY CA 91748	DIAMOND BAR CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
ASRAR FAHEEM	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses TO-14								Comments A2042905
1	T4-VEI-A-20-01	AIR	4/29/02	1110	NONE	1*	3	NORM	X								1*L TEDLAR BAG. -01 SCREEN - A
2	T4-VEI-B-20-02			1115					X								SCREEN - B -02
3	T4-VEI-C-20-03			1120					X								SCREEN - C -03
4	T4-VEI-INN-20-04			1125					X								SCREEN - INFLUENT -04
5	T4-VEI-EFF-20-05			1130					X								SCREEN - EFFLUENT -05
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY	COURIER AND AIR BILL NUMBER	COOLER TEMPERATURE UPON RECEIPT
Tony [illegible]		

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Tony [illegible]	Joan de la Ossa	4/29/02	1220	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 04/29/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2042905-01		A2042905-02		A2042905-03		A2042905-04		A2042905-05	
Client Sample I.D.:		T4-VE1-A-20-01		T4-VE1-B-20-02		T4-VE1-C-20-03		T4-VE1-INN-20-04		T4-VE1-EFF-20-05	
Date Sampled:		04/29/02		04/29/02		04/29/02		04/29/02		04/29/02	
Date Analyzed:		05/02/02		05/02/02		05/02/02		05/02/02		05/02/02	
QC Batch No:		020501MS2A2		020501MS2A2		020501MS2A2		020501MS2A2		020501MS2A2	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.6	1.0	ND	1.0	ND	1.0	3.7	1.0	7.7	1.0
Chloromethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	1.1	1.0	25	1.0	113	1.0	62	1.0	133	1.0
1,1-Dichloroethene	1.0	5.4	1.0	60	1.0	20	1.0	36	1.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	5.1	1.0	59	1.0	50	1.0	46	1.0	91	1.0
Methylene Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	1.1	1.0
1,1-Dichloroethane	1.0	ND	1.0	2.0	1.0	1.5	1.0	1.5	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	166	1.0	102	1.0	71	1.0	125	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	2.4	1.0	14	1.0	4.3	1.0	8.6	1.0	ND	1.0
Carbon Tetrachloride	1.0	87	1.0	250	1.0	132	1.0	192	1.0	ND	1.0
Benzene	1.0	ND	1.0	ND	1.0	ND	1.0	4.1	1.0	2.5	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	2.1	1.0	72	1.0	161	1.0	135	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	26	1.0	37	1.0	21	1.0	2.5	1.0	1.7	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	2.0	1.0	16	1.0	9.6	1.0	21	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	1.4	1.0	1.1	1.0	1.5	1.0	ND	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Mark Johnson
Air Toxics Operations Manager

Date 5-9-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020502MS2A2

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	05/02/02		05/01/02		05/02/02						
Data File ID:	01MAY028.D		01MAY026.D		01MAY027.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.3	103	10.2	102	0.6	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.2	102	9.9	99	2.7	70	130	30	Pass
Trichloroethene	0.0	10.0	10.3	103	10.2	102	0.9	70	130	30	Pass
Toluene	0.0	10.0	9.9	99	10.0	100	1.2	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.9	109	10.6	106	2.2	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date: 5-9-02

The cover letter is an integral part of this analytical report

MAY 2002

05/13/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2050602-01/06

Enclosed are results for sample(s) received 5/06/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 5/13/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON's LAB COORDINATOR: LEO W. WILLIAMSON	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID:	LABORATORY CONTACT: JOAN DE LA OSSA	MAIL REPORT (COMPANY NAME): GEOFON INC
PROJECT NAME: JPL #1	PROJECT LOCATION: JPL-VEI	PROJECT NUMBER: 04-4304-480	LABORATORY PHONE: 626-964-4032	LABORATORY FAX: 626-964-5832	RECIPIENT NAME: LEO W. WILLIAMSON
PROJECT CONTACT: LEO W. WILLIAMSON	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 18501 E. GALE AVE #130		ADDRESS: 22632 GOLDEN SPRINGS DR #270
PROJECT ADDRESS: 4800 OAKGROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: CITY OF INDUSTRY CA 91748		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: ASLAN FATHEEM	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses TO-14	Comments A2050602
1	T4-VEI-INN-21-01	AIR	5/6/02	1125	NONE	1*	3	NORM	X	1 L TEDLAR BAG SCREEN - INFLUENT -01
2	T4-VEI-EFF-21-02			1130					X	SCREEN - EFFLUENT -02
3	T4-VEI-P1EFF-21-03			1135					X	SCREEN - PRIMARY 1 EFFLUENT 03
4	T4-VEI-P2EFF-21-04			1140					X	SCREEN - PRIMARY 2 EFFLUENT 04
5	T4-VEI-S1EFF-21-05			1145					X	SCREEN - SECONDARY 1 EFFLUENT 05
6	T4-VEI-S2EFF-21-06			1150					X	SCREEN - SECONDARY 2 EFFLUENT 06
7										
8										
9										
10										

SAMPLES COLLECTED BY	COURIER AND AIR BILL NUMBER.			COOLER TEMPERATURE UPON RECEIPT
RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Tony Mulgand	MTZ	5/8/02	1:20	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 05/06/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2050602-01		A2050602-02		A2050602-03		A2050602-04		A2050602-05	
Client Sample I.D.:		T4-VE1-INN-21-01		T4-VE1-EFF-21-02		T4-VE1-P1EFF-21-03		T4-VE1-P2EFF-21-04		T4-VE1-S1EFF-21-05	
Date Sampled:		05/06/02		05/06/02		05/06/02		05/06/02		05/06/02	
Date Analyzed:		05/07/02		05/07/02		05/07/02		05/07/02		05/07/02	
QC Batch No:		020506MS2A2		020506MS2A2		020506MS2A2		020506MS2A2		020506MS2A2	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		1.0		1.0		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.0	1.0	4.4	1.0	3.9	1.0	3.8	1.0	3.4	1.0
Chloromethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	57	1.0	68	1.0	51	1.0	71	1.0	63	1.0
1,1-Dichloroethene	1.0	33	1.0	ND	1.0	16	1.0	25	1.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	43	1.0	36	1.0	30	1.0	28	1.0	35	1.0
Methylene Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	1.5	1.0	ND	1.0	ND	1.0	1.1	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	119	1.0	ND	1.0	26	1.0	53	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	8.2	1.0	ND	1.0	1.0	1.0	2.3	1.0	ND	1.0
Carbon Tetrachloride	1.0	201	1.0	ND	1.0	26	1.0	63	1.0	ND	1.0
Benzene	1.0	2.7	1.0	3.6	1.0	18	1.0	ND	1.0	11	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	141	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	ND	1.0	1.4	1.0	3.7	1.0	5.2	1.0	7.6	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	21	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	ND	1.0	1.2	1.0	ND	1.0	1.6	1.0
o-Xylene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	2.0	1.0
Styrene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	3.6	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 5-13-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 05/06/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:	A2050602-06
Client Sample I.D.:	T4-VE1-S2EFF-21-06
Date Sampled:	05/06/02
Date Analyzed:	05/07/02
QC Batch No:	020506MS2A2
Analyst Initials:	SC
Dilution Factor:	1.0

ANALYTE	MDL	Result	RL
Dichlorodifluoromethane (12)	1.0	4.0	1.0
Chloromethane	2.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0
Bromomethane	1.0	ND	1.0
Chloroethane	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	55	1.0
1,1-Dichloroethene	1.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	34	1.0
Methylene Chloride	1.0	ND	1.0
1,1-Dichloroethane	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0
Chloroform	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	ND	1.0
Carbon Tetrachloride	1.0	ND	1.0
Benzene	1.0	ND	1.0
1,2-Dichloroethane	1.0	ND	1.0
Trichloroethene	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0
Toluene	1.0	2.5	1.0
t-1,3-Dichloropropene	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0
Tetrachloroethene	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0
o-Xylene	1.0	ND	1.0
Styrene	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Mark Johnson
Air Toxics Operations Manager

Date 5-13-02

The cover letter is an integral part of this analytical report

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020506MS2A2

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	05/07/02		05/07/02		05/07/02						
Data File ID:	06MAY032.D		06MAY030.D		06MAY031.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.5	95	10.0	100	5.6	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.7	97	9.8	98	1.6	70	130	30	Pass
Trichloroethene	0.0	10.0	10.1	101	10.6	106	4.8	70	130	30	Pass
Toluene	0.0	10.0	9.9	99	10.3	103	4.0	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.1	111	11.0	110	1.0	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date: 5-13-02

The cover letter is an integral part of this analytical report

05/28/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2051503-01/05

Enclosed are results for sample(s) received 5/15/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 5/23/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR: LED. W. WILLIAMSON	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID:	LABORATORY CONTACT: JOAN DE LA OSSA	MAIL REPORT (COMPANY NAME): GEOFON INC
PROJECT NAME: JPL #1	PROJECT LOCATION: JPL - VE1	PROJECT NUMBER: 04-4304.480	LABORATORY PHONE: 626-964-4032	LABORATORY FAX: 626-964-5832	RECIPIENT NAME: LED W. WILLIAMSON
PROJECT CONTACT: LED W WILLIAMSON	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 18501 E. GALE AVE #130		ADDRESS: 22632 GOLDEN SPRINGS DR #270
PROJECT ADDRESS: 4800 OAKGROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: CITY OF INDUSTRY CA 91748		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: ASRAR PATHEEM	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses TO-14								Comments A205/503
1	T4-VE1-A-22-01	AIR	5/15/02	1130	NONE	1*	3	NORM	X								1* L TEDLAR BAG SCREEN - A 01
2	T4-VE1-B-22-02	|	|	1135	|	|	|	|	X								SCREEN - B 02
3	T4-VE1-C-22-03	|	|	1140	|	|	|	|	X								SCREEN - C 03
4	T4-VE1-INN-22-04	|	|	1145	|	|	|	|	X								SCREEN - INFLUENT 04
5	T4-VE1-EFF-22-05	|	|	1150	|	|	|	|	X								SCREEN - EFFLUENT 05
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY	COURIER AND AIR BILL NUMBER:			COOLER TEMPERATURE UPON RECEIPT
RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Tony Mohammad	ATL	5/15/02	1:20	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 05/15/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2051503-01		A2051503-02		A2051503-03		A2051503-04		A2051503-05	
Client Sample I.D.:		T4-VE1-A-22-01		T4-VE1-B-22-02		T4-VE1-C-22-03		T4-VE1-INN-22-04		T4-VE1-EFF-22-05	
Date Sampled:		05/15/02		05/15/02		05/15/02		05/15/02		05/15/02	
Date Analyzed:		05/16/02		05/16/02		05/16/02		05/16/02		05/16/02	
QC Batch No:		020516MS2A1		020516MS2A1		020516MS2A1		020516MS2A1		020516MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		2.5		1.0		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	4.9	1.0	5.3	2.5	ND	1.0	3.8	1.0	5.2	1.0
Chloromethane	2.0	ND	2.0	ND	5.0	2.8	2.0	ND	2.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	1.1	1.0	ND	2.5	1.5	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	2.5	1.8	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	1.2	1.0	34	2.5	104	1.0	52	1.0	93	1.0
1,1-Dichloroethene	1.0	8.2	1.0	60	2.5	19	1.0	35	1.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	5.0	1.0	60	2.5	48	1.0	42	1.0	52	1.0
Methylene Chloride	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	ND	1.0	ND	2.5	1.5	1.0	1.4	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	153	1.0	104	2.5	73	1.0	134	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	2.3	1.0	14	2.5	4.2	1.0	8.7	1.0	ND	1.0
Carbon Tetrachloride	1.0	87	1.0	286	2.5	145	1.0	205	1.0	ND	1.0
Benzene	1.0	ND	1.0	ND	2.5	ND	1.0	3.6	1.0	2.6	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	2.8	1.0	74	2.5	190	1.0	135	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	19	1.0	30	2.5	14	1.0	1.3	1.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	1.7	1.0	16	2.5	12	1.0	21	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	5.7	2.5	1.1	1.0	ND	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	5.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	5.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	5.0	ND	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	5.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	2.5	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 5-23-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020516MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	05/16/02		05/16/02		05/16/02						
Data File ID:	16MAY006.D		16MAY004.D		16MAY005.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	10.3	103	10.0	100	2.6	70	130	30	Pass
Methylene Chloride	0.0	10.0	10.4	104	9.7	97	6.7	70	130	30	Pass
Trichloroethene	0.0	10.0	10.7	107	10.1	101	5.2	70	130	30	Pass
Toluene	0.0	10.0	10.2	102	9.9	99	2.4	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.4	114	11.6	116	2.1	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson
Air Toxics Operations Manager

Date: 5-23-02

The cover letter is an integral part of this analytical report

JUN 05 2002

05/29/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2052105-01/02

Enclosed are results for sample(s) received 5/21/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 5/28/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR: ED W. WILLIAMSON	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID:	LABORATORY CONTACT: JOAN DE LA OSSA	MAIL REPORT (COMPANY NAME): GEOFON INC
PROJECT NAME: JPL #1	PROJECT LOCATION: JPL-VEI	PROJECT NUMBER: 04-4304.480	LABORATORY PHONE: 626-964-4032	LABORATORY FAX: 626-964-5832	RECIPIENT NAME: ED W. WILLIAMSON
PROJECT CONTACT: ED W. WILLIAMSON	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 18501 E. GALE AVE #130		ADDRESS: 22632 GOLDEN SPRINGS DR #270
PROJECT ADDRESS: 800 OAK GROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA	CLIENT: USNAVY SWDIV	CITY, STATE AND ZIPCODE: CITY OF INDUSTRY CA 91748		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: SRAR FAHEEM	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: TO-14								Comments A2052105
1	T4-VEI-INN-23-01	AIR	5/21/02		NONE	1*	3	NORM	X								1* L TEDLAR BAG. SCRUBBER - INFLUENT -01
2	T4-VEI-EFF-23-02	AIR	5/21/02		NONE	1*	3	NORM	X								SCRUBBER - EFFLUENT -02
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: Tony [signature]

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Tony [signature]	Jixel Arceo, ATL	5/21/02	13:30	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 05/21/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2052105-01		A2052105-02							
Client Sample I.D.:		T4-VE1-INN-23-01		T4-VE1-EFF-23-02							
Date Sampled:		05/21/02		05/21/02							
Date Analyzed:		05/22/02		05/22/02							
QC Batch No:		020522MS2A1		020522MS2A1							
Analyst Initials:		SC		SC							
Dilution Factor:		1.0		1.0							
ANALYTE	MDL	Result	RL	Result	RL						
Dichlorodifluoromethane (12)	1.0	4.0	1.0	9.3	1.0						
Chloromethane	2.0	ND	2.0	ND	2.0						
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0						
Vinyl Chloride	1.0	ND	1.0	ND	1.0						
Bromomethane	1.0	ND	1.0	ND	1.0						
Chloroethane	1.0	ND	1.0	ND	1.0						
Trichlorofluoromethane (11)	1.0	53	1.0	128	1.0						
1,1-Dichloroethene	1.0	32	1.0	ND	1.0						
1,1,2-Cl 1,2,2-F ethane (113)	1.0	35	1.0	79	1.0						
Methylene Chloride	1.0	ND	1.0	ND	1.0						
1,1-Dichloroethane	1.0	1.4	1.0	ND	1.0						
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0						
Chloroform	1.0	129	1.0	ND	1.0						
1,1,1-Trichloroethane	1.0	8.3	1.0	ND	1.0						
Carbon Tetrachloride	1.0	197	1.0	ND	1.0						
Benzene	1.0	3.3	1.0	2.1	1.0						
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0						
Trichloroethene	1.0	124	1.0	ND	1.0						
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0						
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0						
Toluene	1.0	1.6	1.0	ND	1.0						
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0						
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0						
Tetrachloroethene	1.0	18	1.0	ND	1.0						
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0						
Chlorobenzene	1.0	ND	1.0	ND	1.0						
Ethylbenzene	1.0	ND	1.0	ND	1.0						
p,&m-Xylene	1.0	ND	1.0	ND	1.0						
o-Xylene	1.0	ND	1.0	ND	1.0						
Styrene	1.0	ND	1.0	ND	1.0						
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0						
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0						
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0						
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0						
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0						
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0						
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0						
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0						

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: _____ Date 5-28-02
Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020522MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	05/22/02		05/22/02		05/22/02						
Data File ID:	22MAY005.D		22MAY003.D		22MAY004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.9	99	9.6	96	3.1	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.9	99	9.4	94	5.4	70	130	30	Pass
Trichloroethene	0.0	10.0	9.7	97	9.5	95	2.1	70	130	30	Pass
Toluene	0.0	10.0	9.5	95	9.7	97	1.9	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.1	111	11.0	110	1.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: _____ Date: 5-28-02

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

JUN 12 2002

06/10/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2052804-01/05

Enclosed are results for sample(s) received 5/28/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 6/05/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
LEO W. WILLIAMSON	909-396-7662	909-396-1455		JOAN DE LA OSSA	GEOFON INC

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL #1	JPL-VE1	04-4304.480	626-964-4032	626-964-5832	LEO W. WILLIAMSON

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
LEO W. WILLIAMSON	714-920-8438	N/A	18501 E. GALE AVE #130	22632 GOLDEN SPRINGS DR #270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAKGROVE DR	PASADENA CA	US NAVY SWDIV	CITY OF INDUSTRY CA 91748	DIAMOND BAR CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
ASRAR FAHEEM	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses TO-14								Comments
1	T4-VE1-A-24-01	AIR	5/28/02	1135	NONE	1*	3	NORM	X								1* L TEDLAR BAG. A2052804-0 SCREEN - A -01
2	T4-VE1-B-24-02	|	|	1140	|	|	|	|	X								SCREEN - B 02
3	T4-VE1-C-24-03	|	|	1145	|	|	|	|	X								SCREEN - C 03
4	T4-VE1-INN-24-04	|	|	1150	|	|	|	|	X								SCREEN - INFLUENT 04
5	T4-VE1-EFF-24-05	|	|	1155	|	|	|	|	X								SCREEN - EFFLUENT 05
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: [signature]

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	ATL	5/28/02	13:15	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 05/28/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2052804-01		A2052804-02		A2052804-03		A2052804-04		A2052804-05	
Client Sample I.D.:		T4-VE1-A-24-01		T4-VE1-B-24-02		T4-VE1-C-24-03		T4-VE1-INN-24-04		T4-VE1-EFF-24-05	
Date Sampled:		05/28/02		05/28/02		05/28/02		05/28/02		05/28/02	
Date Analyzed:		05/30/02		05/30/02		05/30/02		05/30/02		05/30/02	
QC Batch No:		020530MS2A1		020530MS2A1		020530MS2A1		020530MS2A1		020530MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		2.0		1.0		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	5.0	1.0	5.0	2.0	ND	1.0	3.4	1.0	7.5	1.0
Chloromethane	2.0	2.3	2.0	ND	4.0	2.4	2.0	ND	2.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	1.6	1.0	ND	2.0	1.2	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	1.5	1.0	ND	2.0	1.8	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	1.2	1.0	32	2.0	95	1.0	46	1.0	98	1.0
1,1-Dichloroethene	1.0	6.6	1.0	55	2.0	17	1.0	30	1.0	1.1	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	4.3	1.0	54	2.0	43	1.0	37	1.0	63	1.0
Methylene Chloride	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	ND	1.0	2.0	2.0	1.4	1.0	1.4	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	125	1.0	98	2.0	68	1.0	112	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	2.2	1.0	13	2.0	3.8	1.0	7.8	1.0	ND	1.0
Carbon Tetrachloride	1.0	72	1.0	259	2.0	125	1.0	179	1.0	ND	1.0
Benzene	1.0	1.4	1.0	2.3	2.0	1.9	1.0	8.7	1.0	7.3	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	3.4	1.0	68	2.0	167	1.0	116	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	24	1.0	30	2.0	19	1.0	10	1.0	1.4	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	1.9	1.0	18	2.0	10	1.0	18	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	4.1	2.0	ND	1.0	1.1	1.0	ND	1.0
p,&m-Xylene	1.0	1.9	1.0	12	2.0	1.8	1.0	1.1	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	6.4	2.0	ND	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	6.2	4.0	ND	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 6-5-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020530MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	05/30/02		05/30/02		05/30/02						
Data File ID:	30MAY005.D		30MAY003.D		30MAY004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.9	99	9.7	97	1.7	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.1	91	9.9	99	7.8	70	130	30	Pass
Trichloroethene	0.0	10.0	9.4	94	9.7	97	3.0	70	130	30	Pass
Toluene	0.0	10.0	9.3	93	9.3	93	0.4	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	11.1	111	10.8	108	2.4	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date: 6-5-02

The cover letter is an integral part of this analytical report

JUNE 2002

JUN 18 2002

06/12/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2060301-01/02

Enclosed are results for sample(s) received 6/03/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 6/12/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON's LAB COORDINATOR: LEO W. WILLIAMSON	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID:	LABORATORY CONTACT: JOAN DE LA OSSA	MAIL REPORT (COMPANY NAME): GEOFON INC
PROJECT NAME: JPL #1	PROJECT LOCATION: JPL - VEI	PROJECT NUMBER: 04-4304.480	LABORATORY PHONE: 626-964-4032	LABORATORY FAX: 626-964-5832	RECIPIENT NAME: LEO. W. WILLIAMSON
PROJECT CONTACT: LEO W. WILLIAMSON	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 18501 E. GALE AVE #130		ADDRESS: 22632 GOLDEN SPRING DR #270
PROJECT ADDRESS: 4800 OAK GROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: CITY OF INDUSTRY CA 91748		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: ASLAM FAHEEM	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses: TO-14								Comments A206901
1	T4-VEI-INN-25-01	AIR	6/3/02	1110	NONE	1*	3	NORM	X								1* L TEDLAR BAG
2	T4-VEI-EFF-25-02	AIR	6/3/02	1115	NONE	1*	3	NORM	X								SCREEN - INFLUENT -01
																	SCREEN - EFFLUENT -02
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: [signature]

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	6/03/02	1235	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 06/03/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2060301-01		A2060301-02	
Client Sample I.D.:		T4-VE1-INN-25-01		T4-VE1-EFF-25-02	
Date Sampled:		06/03/02		06/03/02	
Date Analyzed:		06/05/02		06/05/02	
QC Batch No:		020605MS2A1		020605MS2A1	
Analyst Initials:		SC		SC	
Dilution Factor:		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.7	1.0	5.3	1.0
Chloromethane	2.0	ND	2.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	42	1.0	25	1.0
1,1-Dichloroethene	1.0	28	1.0	ND	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	36	1.0	6.4	1.0
Methylene Chloride	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	1.3	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0
Chloroform	1.0	112	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	6.5	1.0	ND	1.0
Carbon Tetrachloride	1.0	163	1.0	ND	1.0
Benzene	1.0	3.3	1.0	1.5	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	120	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
Toluene	1.0	5.9	1.0	ND	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	18	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	1.7	1.0	1.2	1.0
o-Xylene	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 6-12-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020605MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	06/05/02		06/05/02		06/05/02						
Data File ID:	05JUN005.D		05JUN003.D		05JUN004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.7	97	9.5	95	2.2	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.5	95	9.0	90	5.3	70	130	30	Pass
Trichloroethene	0.0	10.0	10.4	104	9.9	99	4.6	70	130	30	Pass
Toluene	0.2	10.0	9.9	97	9.7	95	2.7	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.6	106	10.6	106	0.5	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date: 6-12-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

JUN 26 2002

06/19/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2061106-01/09

Enclosed are results for sample(s) received 6/11/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 6/19/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON'S LAB COORDINATOR: LED W. WILLIAMSON	LAB COORDINATOR'S PHONE: 909-396-7662	LAB COORDINATOR'S FAX: 909-396-1455	LABORATORY SERVICE ID:	LABORATORY CONTACT: JOAN DELA OSSA	MAIL REPORT (COMPANY NAME): GEOFON INC.
PROJECT NAME: JPL #1	PROJECT LOCATION: JPL-VEI	PROJECT NUMBER: 04-4304.480	LABORATORY PHONE: 626-964-4032	LABORATORY FAX: 626-964-5832	RECIPIENT NAME: LED W. WILLIAMSON
PROJECT CONTACT: LED W. WILLIAMSON	PROJECT PHONE NUMBER: 714-920-8438	PROJECT FAX: N/A	LABORATORY ADDRESS: 18501 E. GALE AVE #130		ADDRESS: 22632 GOLDEN SPRINGS DR #270
PROJECT ADDRESS: 4800 OAK GROVE DR	CITY, STATE AND ZIPCODE: PASADENA CA	CLIENT: USNAVY SWDIV	CITY, STATE AND ZIPCODE: CITY OF INDUSTRY CA 91748		CITY, STATE AND ZIPCODE: DIAMOND BAR CA 91765
PROJECT MANAGER: ASLAN FAHREM	PROJECT MANAGER'S PHONE: 909-396-7662	PROJECT MANAGER'S FAX: 909-396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses: TO-14							Comments
1	T4-VEI-A-26-01	AIR	6/11/02	1110	NONE	1*	3	NORM	X		A206	106			01	*L TEDLAR BAG. SCREEN - A
2	T4-VEI-B-26-02			1115					X						02	SCREEN - B
3	T4-VEI-C-26-03			1120					X						03	SCREEN - C
4	T4-VEI-INN-26-04			1125					X						04	SCREEN - INFLUENT
5	T4-VEI-EFF-26-05			1130					X						05	SCREEN - EFFLUENT
6	T4-VEI-P1EFF-26-06			1135					X						06	SCREEN - PRIMARY 1 EFFLUENT
7	T4-VEI-P2EFF-26-07			1140					X						07	SCREEN - PRIMARY 2 EFFLUENT
8	T4-VEI-S1EFF-26-08			1145					X						08	SCREEN - SECONDARY 1 EFFLUENT
9	T4-VEI-S2EFF-26-09			1150					X						09	SCREEN - SECONDARY 2 EFFLUENT
10																

SAMPLES COLLECTED BY: [signature]

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	06/11/02	13:30	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 06/11/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2061106-01		A2061106-02		A2061106-03		A2061106-04		A2061106-05	
Client Sample I.D.:		T4-VE1-A-26-01		T4-VE1-B-26-02		T4-VE1-C-26-03		T4-VE1-INN-26-04		T4-VE1-EFF-26-05	
Date Sampled:		06/11/02		06/11/02		06/11/02		06/11/02		06/11/02	
Date Analyzed:		06/12/02		06/12/02		06/12/02		06/12/02		06/12/02	
QC Batch No:		020612MS2A1		020612MS2A1		020612MS2A1		020612MS2A1		020612MS2A1	
Analyst Initials:		SC		SC		SC		SC		SC	
Dilution Factor:		1.0		2.0		1.0		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	4.5	1.0	4.2	2.0	ND	1.0	3.2	1.0	2.9	1.0
Chloromethane	2.0	ND	2.0	ND	4.0	2.3	2.0	ND	2.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	14	1.0	23	2.0	84	1.0	38	1.0	43	1.0
1,1-Dichloroethene	1.0	4.9	1.0	43	2.0	15	1.0	25	1.0	1.2	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	4.1	1.0	47	2.0	43	1.0	34	1.0	18	1.0
Methylene Chloride	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	ND	1.0	ND	2.0	1.4	1.0	1.3	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Chloroform	1.0	99	1.0	76	2.0	65	1.0	95	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	1.9	1.0	9.9	2.0	3.6	1.0	6.5	1.0	ND	1.0
Carbon Tetrachloride	1.0	60	1.0	196	2.0	116	1.0	153	1.0	ND	1.0
Benzene	1.0	ND	1.0	ND	2.0	1.6	1.0	5.4	1.0	3.4	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	2.6	1.0	56	2.0	159	1.0	105	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Toluene	1.0	5.8	1.0	16	2.0	10	1.0	3.7	1.0	4.4	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	1.7	1.0	23	2.0	8.6	1.0	15	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	5.8	2.0	ND	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	1.7	1.0	18	2.0	2.0	1.0	ND	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	9.4	2.0	1.0	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	6.0	4.0	ND	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	4.0	ND	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	2.0	ND	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 6-19-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 06/11/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2061106-06		A2061106-07		A2061106-08		A2061106-09			
Client Sample I.D.:		T4-VE1-P1EFF-26-06		T4-VE1-P2EFF-26-07		T4-VE1-S1EFF-26-08		T4-VE1-S2EFF-26-09			
Date Sampled:		06/11/02		06/11/02		06/11/02		06/11/02			
Date Analyzed:		06/12/02		06/12/02		06/12/02		06/12/02			
QC Batch No:		020612MS2A1		020612MS2A1		020612MS2A1		020612MS2A1			
Analyst Initials:		SC		SC		SC		SC			
Dilution Factor:		1.0		1.0		1.0		1.0			
ANALYTE	MDL	Result	RL	Result	RL	Result	RL	Result	RL		
Dichlorodifluoromethane (12)	1.0	1.7	1.0	2.8	1.0	4.2	1.0	4.3	1.0		
Chloromethane	2.0	ND	2.0	ND	2.0	ND	2.0	2.5	2.0		
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
Vinyl Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	2.7	1.0		
Bromomethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
Chloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	2.6	1.0		
Trichlorofluoromethane (11)	1.0	73	1.0	69	1.0	41	1.0	27	1.0		
1,1-Dichloroethene	1.0	30	1.0	33	1.0	ND	1.0	2.5	1.0		
1,1,2-Cl 1,2,2-F ethane (113)	1.0	54	1.0	50	1.0	21	1.0	12	1.0		
Methylene Chloride	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
1,1-Dichloroethane	1.0	1.5	1.0	1.6	1.0	ND	1.0	ND	1.0		
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
Chloroform	1.0	62	1.0	83	1.0	ND	1.0	ND	1.0		
1,1,1-Trichloroethane	1.0	2.4	1.0	4.0	1.0	ND	1.0	ND	1.0		
Carbon Tetrachloride	1.0	60	1.0	104	1.0	ND	1.0	ND	1.0		
Benzene	1.0	81	1.0	1.6	1.0	40	1.0	1.7	1.0		
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
Trichloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
Toluene	1.0	4.8	1.0	6.9	1.0	8.4	1.0	6.1	1.0		
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
Tetrachloroethene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
Chlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
Ethylbenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
p,&m-Xylene	1.0	1.4	1.0	1.2	1.0	1.7	1.0	1.8	1.0		
o-Xylene	1.0	ND	1.0	ND	1.0	1.6	1.0	ND	1.0		
Styrene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0		
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0		
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0	3.0	2.0	ND	2.0		
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0	ND	2.0	ND	2.0		
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0	ND	1.0	ND	1.0		

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 6-19-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020612MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	06/12/02		06/12/02		06/12/02						
Data File ID:	12JUN005.D		12JUN003.D		12JUN004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.0	90	8.9	89	1.1	70	130	30	Pass
Methylene Chloride	0.0	10.0	9.1	91	8.8	88	3.7	70	130	30	Pass
Trichloroethene	0.0	10.0	9.8	98	9.3	93	5.2	70	130	30	Pass
Toluene	0.0	10.0	9.5	95	9.0	90	5.3	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.3	103	10.0	100	3.0	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson **Date:** 6-19-02

Mark Johnson
Air Toxics Operations Manager

The cover letter is an integral part of this analytical report

06/27/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2061703-01/02

Enclosed are results for sample(s) received 6/17/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 6/27/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

A2061703

GEOFON'S LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
LED W. WILLIAMSON	909-396-7662	909-396-1455		JOAN DE LA OSSA	GEOFON INC

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL #1	JPL - VEI	04-4304-480	626-964-4032	626-964-5832	LED W. WILLIAMSON

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
LED W. WILLIAMSON	714-920-8438	N/A	18501 E. GALE AVE #130	22632 GOLDEN SPRINGS DR #270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 OAKGROVE DR	PASADENA CA	US NAVY SWDIV	CITY OF INDUSTRY CA 91748	DIAMOND BAR CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
ASRAR FAHEEM	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses TO-14								Comments A2061703
1	T4-VEI-INN-27-01	AIR	6/17/02	1110	NONE	1*	3	NORM	X								1* L TEDLAR BAG. -01 SCRUBBER - INFLUENT
2	T4-VEI-EFF-27-02	AIR	6/17/02	1115	NONE	1*	3	NORM	X								SCRUBBER - EFFLUENT -02
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: Tony M

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Tony M	[illegible]	6/18/02	13:40	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 06/17/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2061703-01		A2061703-02	
Client Sample I.D.:		T4-VE1-INN-27-01		T4-VE1-EFF-27-02	
Date Sampled:		06/17/02		06/17/02	
Date Analyzed:		06/17/02		06/17/02	
QC Batch No:		020617MS2A1		020617MS2A1	
Analyst Initials:		SC		SC	
Dilution Factor:		1.0		1.0	
ANALYTE	MDL	Result	RL	Result	RL
Dichlorodifluoromethane (12)	1.0	3.4	1.0	3.4	1.0
Chloromethane	2.0	ND	2.0	ND	2.0
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0
Vinyl Chloride	1.0	ND	1.0	ND	1.0
Bromomethane	1.0	ND	1.0	ND	1.0
Chloroethane	1.0	ND	1.0	ND	1.0
Trichlorofluoromethane (11)	1.0	42	1.0	31	1.0
1,1-Dichloroethene	1.0	27	1.0	1.6	1.0
1,1,2-Cl 1,2,2-F ethane (113)	1.0	34	1.0	8.2	1.0
Methylene Chloride	1.0	ND	1.0	ND	1.0
1,1-Dichloroethane	1.0	1.3	1.0	ND	1.0
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0
Chloroform	1.0	104	1.0	ND	1.0
1,1,1-Trichloroethane	1.0	7.2	1.0	ND	1.0
Carbon Tetrachloride	1.0	172	1.0	ND	1.0
Benzene	1.0	5.1	1.0	3.2	1.0
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0
Trichloroethene	1.0	128	1.0	ND	1.0
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
Toluene	1.0	3.6	1.0	4.1	1.0
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0
Tetrachloroethene	1.0	18	1.0	ND	1.0
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0
Chlorobenzene	1.0	ND	1.0	ND	1.0
Ethylbenzene	1.0	ND	1.0	ND	1.0
p,&m-Xylene	1.0	ND	1.0	ND	1.0
o-Xylene	1.0	ND	1.0	ND	1.0
Styrene	1.0	ND	1.0	ND	1.0
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 6-27-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020617MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	06/17/02		06/17/02		06/17/02						
Data File ID:	17JUN005.D		17JUN003.D		17JUN004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	9.0	90	8.6	86	4.2	70	130	30	Pass
Methylene Chloride	0.0	10.0	8.7	87	8.7	87	0.2	70	130	30	Pass
Trichloroethene	0.0	10.0	10.0	100	9.5	95	5.3	70	130	30	Pass
Toluene	0.0	10.0	9.3	93	8.9	89	4.1	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	10.3	103	9.7	97	5.3	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date: 6-27-02

The cover letter is an integral part of this analytical report

CZJUL 18 2002

07/09/2002

Geofon, Inc.
ATTN: Leo W. Williamson
22632 Golden Springs Dr., Suite 270
Diamond Bar, CA 91765

Project Reference: JPL #1
Lab Number: A2062406-01/02

Enclosed are results for sample(s) received 6/24/02 by Air Technology Laboratories. Analyses were performed according to specifications on the chain of custody provided with the sample(s).

Report Narrative:

Sample analyses were performed within method performance criteria.
All results are reported without qualifications.

Results were faxed to Leo W. Williamson on 7/08/02.

ATL appreciates the opportunity to provide testing services to your company. If you have any questions regarding these results, please call me at (626) 964-4032.

Sincerely,

Mark Johnson
Operations Manager
mark@atlglobal.com

Enclosures

Note: The cover letter is an integral part of this analytical report.

A20624006

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

GEOFON's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
LEO W. WILLIAMSON	909-396-7662	909-396-1455		JOAN DE LA OSSA	GEOFON INC.

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL #1	JPL - VEI	04-4304-480	626-964-4032	626-964-5832	LEO W. WILLIAMSON

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
LEO W. WILLIAMSON	714-920-8438	N/A	18501 E. GALE AVE #130	22632 GOLDEN SPRING DR #270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
1800 OAK GROVE DR	PASADENA CA	US NAVY SWDIV	CITY OF INDUSTRY CA 91748	DIAMOND BAR CA 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
ISLAM FAHEEM	909-396-7662	909-396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses TO-14								Comments
1	T4-VEI-INN-28-01	AIR	6/24/02	1115	NONE	1*	3	NORM	X								1* L TEDLAR BAG SCREEN - INFLUENT
2	T4-VEI-EFF-28-02	AIR	6/24/02	1120	NONE	1*	3	NORM	X								SCREEN - EFFLUENT
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

SAMPLES COLLECTED BY: [signature]

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
[signature]	[signature]	6/24/02	13:45	

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Client: Geofon Incorporated
Attn: Leo W. Williamson

Client's Project: JPL #1
Date Received: 06/24/02
Matrix: Air
Units: ppbv

EPA Method TO14

Lab No:		A2062406-01		A2062406-02							
Client Sample I.D.:		T4-VE1-INN-28-01		T4-VE1-EFF-28-02							
Date Sampled:		06/24/02		06/24/02							
Date Analyzed:		06/25/02		06/25/02							
QC Batch No:		020625MS2A1		020625MS2A1							
Analyst Initials:		SC		SC							
Dilution Factor:		1.0		1.0							
ANALYTE	MDL	Result	RL	Result	RL						
Dichlorodifluoromethane (12)	1.0	3.8	1.0	4.2	1.0						
Chloromethane	2.0	ND	2.0	ND	2.0						
1,2-Cl-1,1,2,2-F ethane (114)	1.0	ND	1.0	ND	1.0						
Vinyl Chloride	1.0	ND	1.0	ND	1.0						
Bromomethane	1.0	ND	1.0	ND	1.0						
Chloroethane	1.0	ND	1.0	ND	1.0						
Trichlorofluoromethane (11)	1.0	45	1.0	51	1.0						
1,1-Dichloroethene	1.0	38	1.0	2.5	1.0						
1,1,2-Cl 1,2,2-F ethane (113)	1.0	38	1.0	20	1.0						
Methylene Chloride	1.0	ND	1.0	ND	1.0						
1,1-Dichloroethane	1.0	1.5	1.0	ND	1.0						
c-1,2-Dichloroethene	1.0	ND	1.0	ND	1.0						
Chloroform	1.0	125	1.0	ND	1.0						
1,1,1-Trichloroethane	1.0	8.0	1.0	ND	1.0						
Carbon Tetrachloride	1.0	179	1.0	ND	1.0						
Benzene	1.0	5.0	1.0	2.2	1.0						
1,2-Dichloroethane	1.0	ND	1.0	ND	1.0						
Trichloroethene	1.0	161	1.0	ND	1.0						
1,2-Dichloropropane	1.0	ND	1.0	ND	1.0						
c-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0						
Toluene	1.0	7.0	1.0	3.5	1.0						
t-1,3-Dichloropropene	1.0	ND	1.0	ND	1.0						
1,1,2-Trichloroethane	1.0	ND	1.0	ND	1.0						
Tetrachloroethene	1.0	25	1.0	ND	1.0						
1,2-Dibromoethane	1.0	ND	1.0	ND	1.0						
Chlorobenzene	1.0	ND	1.0	ND	1.0						
Ethylbenzene	1.0	ND	1.0	ND	1.0						
p,&m-Xylene	1.0	ND	1.0	ND	1.0						
o-Xylene	1.0	ND	1.0	ND	1.0						
Styrene	1.0	ND	1.0	ND	1.0						
1,1,2,2-Tetrachloroethane	2.0	ND	2.0	ND	2.0						
1,3,5-Trimethylbenzene	2.0	ND	2.0	ND	2.0						
1,2,4-Trimethylbenzene	2.0	ND	2.0	ND	2.0						
1,3-Dichlorobenzene	1.0	ND	1.0	ND	1.0						
1,4-Dichlorobenzene	1.0	ND	1.0	ND	1.0						
1,2-Dichlorobenzene	1.0	ND	1.0	ND	1.0						
1,2,4-Trichlorobenzene	2.0	ND	2.0	ND	2.0						
Hexachlorobutadiene	1.0	ND	1.0	ND	1.0						

MDL = Method Detection Limit
ND= Not Detected (below RL)
RL = MDL X Dilution Factor

Reviewed/Approved By: Mark Johnson
Air Toxics Operations Manager

Date 7-8-02

The cover letter is an integral part of this analytical report

Air Technology Laboratories
18501 E. Gale Avenue Suite 130 City of Industry, CA 91748 Tel: 626 964-4032 Fax: 626 964-5832

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 020625MS2A1

Matrix: Air

EPA Method TO-14/TO-15

Lab No:	Method Blank		LCS		LCSD						
Date Analyzed:	06/25/02		06/25/02		06/25/02						
Data File ID:	25JUN005.D		25JUN003.D		25JUN004.D						
Analyst Initials:	SC		SC		SC						
Dilution Factor:	1.0		1.0		1.0			Limits			
ANALYTE	Result ppbv	Spike Amount	Result ppbv	% Rec	Result ppbv	% Rec	RPD	Low %Rec	High %Rec	Max. RPD	Pass/ Fail
1,1-Dichloroethene	0.0	10.0	8.9	89	8.6	86	3.4	70	130	30	Pass
Methylene Chloride	0.0	10.0	8.6	86	8.0	80	8.0	70	130	30	Pass
Trichloroethene	0.0	10.0	8.8	88	8.5	85	3.0	70	130	30	Pass
Toluene	0.0	10.0	8.6	86	8.3	83	3.9	70	130	30	Pass
1,1,2,2-Tetrachloroethane	0.0	10.0	9.8	98	9.3	93	4.9	70	130	30	Pass

RPD = Relative Percent Difference

Reviewed/Approved By: Mark Johnson

Mark Johnson
Air Toxics Operations Manager

Date: 7-8-02

The cover letter is an integral part of this analytical report