

IT CORPORATION
336 WEST ANAHEIM
WILMINGTON, CA 90744
DON GRANT

**PRELIMINARY
RESULTS**

Date: 05/14/92

Work order: C2-05-005

HOLLOMAN

This is the Certificate of Analysis for the following samples:

Client Work ID: HOLLOMAN AFB

Date Received: 05/01/92

519005-009

Number of Samples: 33

Sample Type: SOIL

ENTERED

The TCLP pesticide/herbicide analysis was performed by ITAS-Middlebrook. The Certificate of Analysis for these analyses are attached to the back of this report.

Samples were labeled as follows:

<u>SAMPLE IDENTIFICATION</u>	<u>LABORATORY #</u>
47-20	C2-05-005-01
47-21	C2-05-005-02
47-22	C2-05-005-03
47-23	C2-05-005-04
47-24	C2-05-005-05
47-25	C2-05-005-06
47-26	C2-05-005-07
47-27	C2-05-005-08
47-28	C2-05-005-09
47-29	C2-05-005-10

I will have to
FAX tomorrow 5/15/92
for SP-7
SP-8
SP-9
SP-10
JS

Reviewed and approved
**PRELIMINARY
RESULTS**
Tracy Sidwell
Project Manager

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOWAN AFB

519005-009

Work Order: C2-05-005

Samples, continued from above:

<u>SAMPLE IDENTIFICATION</u>	<u>LABORATORY #</u>
47-30	C2-05-005-11
47-31	C2-05-005-12
47-32	C2-05-005-13
47-33	C2-05-005-14
47-34	C2-05-005-15
47-35	C2-05-005-16
47-36	C2-05-005-17
SP-7	C2-05-005-18
SP-8	C2-05-005-19
SP-9	C2-05-005-20
SP-10	C2-05-005-21
MATRIX SPIKE 1	C2-05-005-22
MATRIX SPIKE DUP 1	C2-05-005-23
DUPLICATE	C2-05-005-24
METHOD BLANK 1	C2-05-005-25
METHOD BLANK 2	C2-05-005-26
METHOD BLANK 3	C2-05-005-27
METHOD BLANK 4	C2-05-005-28
METHOD BLANK 5	C2-05-005-29
MATRIX SPIKE 2	C2-05-005-31
MATRIX SPIKE DUP 2	C2-05-005-32
LCS 1	C2-05-005-33
LCS 2	C2-05-005-34

*TCLP for Benzene = 5ppm
31 = 0.65 ppm*



Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOMAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-20

LAB SAMPLE ID: C205005-01A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/01/92

Results in UG/KG:

	Detection Limit		Detection Limit		
CHLOROMETHANE	ND	10	DIBROMOCHLOROMETHANE	ND	5
BROMOMETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
VINYL CHLORIDE	ND	10	BENZENE	ND	5
CHLOROETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
METHYLENE CHLORIDE	9	5	2-CHLOROETHYLVINYL ETHER	ND	10
ACETONE	ND	10	BROMOFORM	ND	5
CARBON DISULFIDE	ND	5	2-HEXANONE	ND	10
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	TETRACHLOROETHENE	ND	5
1,2-DICHLOROETHENE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	CHLOROBENZENE	ND	5
2-BUTANONE	ND	10	ETHYLBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	STYRENE	ND	5
CARBON TETRACHLORIDE	ND	5	XYLENES (TOTAL)	ND	5
VINYL ACETATE	ND	10	TRICHLOROFLUOROMETHANE	ND	5
BROMODICHLOROMETHANE	ND	5	1,2-DICHLOROBENZENE	ND	5
1,2-DICHLOROPROPANE	ND	5	1,3-DICHLOROBENZENE	ND	5
TRANS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLOROBENZENE	ND	5
TRICHLOROETHENE	ND	5			

Surrogates	% Recovery	Limits
TOLUENE-D8	98	81 - 117
BROMOFLUOROBENZENE	94	74 - 121
1,2-DICHLOROETHANE-D4	95	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable.

B indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

D Surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOWAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-21

LAB SAMPLE ID: C205005-02A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/01/92

Results in UG/KG:

	Detection Limit		Detection Limit		
BROMOMETHANE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROMETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
ETHYL CHLORIDE	ND	10	BENZENE	ND	5
BROMOETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
ETHYLENE CHLORIDE	10	5	2-CHLOROETHYL VINYL ETHER	ND	10
ACETONE	ND	10	BROMOFORM	ND	5
IRON DISULFIDE	ND	5	2-HEXANONE	ND	10
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,2-DICHLOROETHANE	ND	5	TETRACHLOROETHENE	ND	5
1,1,2,2-TETRACHLOROETHANE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
BROMOFORM	ND	5	TOLUENE	ND	5
1,1-DICHLOROETHANE	ND	5	CHLORO BENZENE	ND	5
PENTANONE	ND	10	ETHYL BENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	STYRENE	ND	5
IRON TETRACHLORIDE	ND	5	XYLENES (TOTAL)	ND	5
ETHYL ACETATE	ND	10	TRICHLOROFLUOROMETHANE	ND	5
1,1-DICHLOROMETHANE	ND	5	1,2-DICHLORO BENZENE	ND	5
1,1-DICHLOROPROPANE	ND	5	1,3-DICHLORO BENZENE	ND	5
CIS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLORO BENZENE	ND	5
1,1-DICHLOROETHENE	ND	5			

Surrogates	% Recovery	Limits
TOLUENE-D8	99	81 - 117
BROMOFLUOROBENZENE	94	74 - 121
1,2-DICHLOROETHANE-D4	95	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

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Company: IT CORPORATION
 Date: 05/14/92
 Client Work ID: HOLLOMAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-22
 LAB SAMPLE ID: C205005-03A
 SAMPLE DATE: 04/30/92
 ANALYSIS DATE: 05/01/92

Results in UG/KG:

	Detection Limit	UG/KG	Detection Limit		
CHLOROMETHANE	ND	10	DIBROMOCHLOROMETHANE	ND	5
BROMOMETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
VINYL CHLORIDE	ND	10	BENZENE	ND	5
CHLOROETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
METHYLENE CHLORIDE	10	5	2-CHLOROETHYL VINYL ETHER	ND	10
ACETONE	ND	10	BROMOFORM	ND	5
CARBON DISULFIDE	ND	5	2-HEXANONE	ND	10
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	TETRACHLOROETHENE	ND	5
1,2-DICHLOROETHENE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	CHLOROBENZENE	ND	5
2-BUTANONE	ND	10	ETHYLBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	STYRENE	ND	5
CARBON TETRACHLORIDE	ND	5	XYLENES (TOTAL)	ND	5
VINYL ACETATE	ND	10	TRICHLOROFLUOROMETHANE	ND	5
BROMODICHLOROMETHANE	ND	5	1,2-DICHLOROBENZENE	ND	5
1,2-DICHLOROPROPANE	ND	5	1,3-DICHLOROBENZENE	ND	5
TRANS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLOROBENZENE	ND	5
TRICHLOROETHENE	ND	5			

Surrogates	% Recovery	Limits
TOLUENE-D8	97	81 - 117
BROMOFLUOROBENZENE	94	74 - 121
1,2-DICHLOROETHANE-D4	98	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

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D Surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOWAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-23

LAB SAMPLE ID: C205005-04A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/01/92

Results in UG/KG:

	Detection Limit		Detection Limit		
BROMOMETHANE	ND	10	DIBROMOCHLOROMETHANE	ND	5
IOMETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
L CHLORIDE	ND	10	BENZENE	ND	5
ROETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
YLENE CHLORIDE	ND	5	2-CHLOROETHYLVINYL ETHER	ND	10
ONE	ND	10	BROMOFORM	ND	5
ON DISULFIDE	ND	5	2-HEXANONE	ND	10
-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
-DICHLOROETHANE	ND	5	TETRACHLOROETHENE	ND	5
-DICHLOROETHENE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
ROFORM	ND	5	TOLUENE	ND	5
-DICHLOROETHANE	ND	5	CHLOROENZENE	ND	5
ANONE	ND	10	ETHYLBENZENE	ND	5
1-TRICHLOROETHANE	ND	5	STYRENE	ND	5
ON TETRACHLORIDE	ND	5	XYLENES (TOTAL)	ND	5
L ACETATE	ND	10	TRICHLOROFLUOROMETHANE	ND	5
ODICHLOROMETHANE	ND	5	1,2-DICHLOROENZENE	ND	5
-DICHLOROPROPANE	ND	5	1,3-DICHLOROENZENE	ND	5
IS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLOROENZENE	ND	5
HLOROETHENE	ND	5			

Surrogates	% Recovery	Limits
TOLUENE-D8	96	81 - 117
BROMOFLUOROENZENE	94	74 - 121
1,2-DICHLOROETHANE-D4	101	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

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Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOMAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-24

LAB SAMPLE ID: C205005-05A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/01/92

Results in UG/KG:

	Detection Limit		Detection Limit		
CHLOROMETHANE	ND	10	DIBROMOCHLOROMETHANE	ND	5
BROMOMETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
VINYL CHLORIDE	ND	10	BENZENE	ND	5
CHLOROETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
METHYLENE CHLORIDE	ND	5	2-CHLOROETHYL VINYL ETHER	ND	10
ACETONE	ND	10	BROMOFORM	ND	5
CARBON DISULFIDE	ND	5	2-HEXANONE	ND	10
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	TETRACHLOROETHENE	ND	5
1,2-DICHLOROETHENE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	CHLOROBENZENE	ND	5
2-BUTANONE	ND	10	ETHYLBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	STYRENE	ND	5
CARBON TETRACHLORIDE	ND	5	XYLENES (TOTAL)	ND	5
VINYL ACETATE	ND	10	TRICHLOROFLUOROMETHANE	ND	5
BROMODICHLOROMETHANE	ND	5	1,2-DICHLOROBENZENE	ND	5
1,2-DICHLOROPROPANE	ND	5	1,3-DICHLOROBENZENE	ND	5
TRANS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLOROBENZENE	ND	5
TRICHLOROETHENE	ND	5			

Surrogates	% Recovery	Limits
TOLUENE-D8	97	81 - 117
BROMOFLUOROBENZENE	95	74 - 121
1,2-DICHLOROETHANE-D4	96	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

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D Surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOMAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-25

LAB SAMPLE ID: C205005-06A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/01/92

Results in UG/KG:

	Detection Limit		Detection Limit		
BROMOMETHANE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROMETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
CHLORIDE	ND	10	BENZENE	ND	5
DIBROMOETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
DIBROMOETHYLENE CHLORIDE	ND	5	2-CHLOROETHYL VINYL ETHER	ND	10
ETHANONE	ND	10	BROMOFORM	ND	5
ETHANON DISULFIDE	ND	5	2-HEXANONE	ND	10
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,2-DICHLOROETHANE	ND	5	TETRACHLOROETHENE	ND	5
1,2-DICHLOROETHENE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
DIBROMOFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	CHLOROBENZENE	ND	5
ETHANONE	ND	10	ETHYLBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	STYRENE	ND	5
ETHANON TETRACHLORIDE	ND	5	XYLENES (TOTAL)	ND	5
ETHYL ACETATE	ND	10	TRICHLOROFLUOROMETHANE	ND	5
1,1-DICHLOROMETHANE	ND	5	1,2-DICHLOROBENZENE	ND	5
1,2-DICHLOROPROPANE	ND	5	1,3-DICHLOROBENZENE	ND	5
CIS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLOROBENZENE	ND	5
1,2-DICHLOROETHENE	ND	5			

Surrogates	% Recovery	Limits
TOLUENE-D8	96	81 - 117
BROMOFLUOROBENZENE	92	74 - 121
1,2-DICHLOROETHANE-D4	97	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

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D Surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOWAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-26

LAB SAMPLE ID: C205005-07A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/01/92

Results in UG/KG:

	Detection Limit		Detection Limit		
CHLOROMETHANE	ND	10	DIBROMOCHLOROMETHANE	ND	5
BROMOMETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
VINYL CHLORIDE	ND	10	BENZENE	ND	5
CHLOROETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
METHYLENE CHLORIDE	ND	5	2-CHLOROETHYLVINYL ETHER	ND	10
ACETONE	ND	10	BROMOFORM	ND	5
CARBON DISULFIDE	ND	5	2-HEXANONE	ND	10
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	TETRACHLOROETHENE	ND	5
1,2-DICHLOROETHENE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	CHLOROBENZENE	ND	5
2-BUTANONE	ND	10	ETHYLBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	STYRENE	ND	5
CARBON TETRACHLORIDE	ND	5	XYLENES (TOTAL)	ND	5
VINYL ACETATE	ND	10	TRICHLOROFLUOROMETHANE	ND	5
BROMODICHLOROMETHANE	ND	5	1,2-DICHLOROBENZENE	ND	5
1,2-DICHLOROPROPANE	ND	5	1,3-DICHLOROBENZENE	ND	5
TRANS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLOROBENZENE	ND	5
TRICHLOROETHENE	ND	5			

Surrogates	% Recovery	Limits
TOLUENE-D8	96	81 - 117
BROMOFLUOROBENZENE	92	74 - 121
1,2-DICHLOROETHANE-D4	98	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

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D Surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOWAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-27

LAB SAMPLE ID: C205005-08A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/01/92

Results in UG/KG:

	Detection Limit		Detection Limit		
OROMETHANE	ND	10	DIBROMOCHLOROMETHANE	ND	5
MOMETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
YL CHLORIDE	ND	10	BENZENE	ND	5
OROETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
HYLENE CHLORIDE	ND	5	2-CHLOROETHYL VINYL ETHER	ND	10
TONE	ND	10	BROMOFORM	ND	5
BON DISULFIDE	ND	5	2-HEXANONE	ND	10
-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
-DICHLOROETHANE	ND	5	TETRACHLOROETHENE	ND	5
-DICHLOROETHENE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
OROFORM	ND	5	TOLUENE	ND	5
-DICHLOROETHANE	ND	5	CHLOROENZENE	ND	5
UTANONE	ND	10	ETHYLBENZENE	ND	5
,1-TRICHLOROETHANE	ND	5	STYRENE	ND	5
BON TETRACHLORIDE	ND	5	XYLENES (TOTAL)	ND	5
YL ACETATE	ND	10	TRICHLOROFLUOROMETHANE	ND	5
MODICHLOROMETHANE	ND	5	1,2-DICHLOROENZENE	ND	5
-DICHLOROPROPANE	ND	5	1,3-DICHLOROENZENE	ND	5
NS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLOROENZENE	ND	5
CHLOROETHENE	ND	5			

Surrogates	% Recovery	Limits
TOLUENE-D8	96	81 - 117
BROMOFLUOROENZENE	93	74 - 121
1,2-DICHLOROETHANE-D4	98	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable.

B indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

D Surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOWAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-28

LAB SAMPLE ID: C205005-09A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/04/92

Results in UG/KG:

	Detection Limit		Detection Limit		
CHLOROMETHANE	ND	50	DIBROMOCHLOROMETHANE	ND	25
BROMOMETHANE	ND	50	1,1,2-TRICHLOROETHANE	ND	25
VINYL CHLORIDE	ND	50	BENZENE	50	25
CHLOROETHANE	ND	50	CIS-1,3-DICHLOROPROPENE	ND	25
METHYLENE CHLORIDE	ND	25	2-CHLOROETHYL VINYL ETHER	ND	50
ACETONE	ND	50	BROMOFORM	ND	25
CARBON DISULFIDE	ND	25	2-HEXANONE	ND	50
1,1-DICHLOROETHENE	ND	25	4-METHYL-2-PENTANONE	ND	50
1,1-DICHLOROETHANE	ND	25	TETRACHLOROETHENE	ND	25
1,2-DICHLOROETHENE (TOTAL)	ND	25	1,1,2,2-TETRACHLOROETHANE	ND	25
CHLOROFORM	ND	25	TOLUENE	ND	25
1,2-DICHLOROETHANE	ND	25	CHLOROBENZENE	ND	25
2-BUTANONE	ND	50	ETHYLBENZENE	830	25
1,1,1-TRICHLOROETHANE	ND	25	STYRENE	ND	25
CARBON TETRACHLORIDE	ND	25	XYLENES (TOTAL)	650	25
VINYL ACETATE	ND	50	TRICHLOROFLUOROMETHANE	ND	25
BROMODICHLOROMETHANE	ND	25	1,2-DICHLOROBENZENE	ND	25
1,2-DICHLOROPROPANE	ND	25	1,3-DICHLOROBENZENE	ND	25
TRANS-1,3-DICHLOROPROPENE	ND	25	1,4-DICHLOROBENZENE	ND	25
TRICHLOROETHENE	ND	25			

Surrogates	% Recovery	Limits
TOLUENE-D8	99	81 - 117
BROMOFLUOROBENZENE	109	74 - 121
1,2-DICHLOROETHANE-D4	94	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable.

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D surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: BULLOMAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-29

LAB SAMPLE ID: C205005-10A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/04/92

Results in UG/KG:

	Detection Limit		Detection Limit		
BROMOMETHANE	ND	10	DIBROMOCHLOROMETHANE	ND	5
FORMETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
ETHYL CHLORIDE	ND	10	BENZENE	ND	5
BROMOETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
ETHYLENE CHLORIDE	7	5	2-CHLOROETHYL VINYL ETHER	ND	10
ACETONE	ND	10	BROMOFORM	ND	5
IRON DISULFIDE	ND	5	2-HEXANONE	ND	10
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,2-DICHLOROETHANE	ND	5	TETRACHLOROETHENE	ND	5
1,1,1-DICHLOROETHENE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
BROMOFORM	ND	5	TOLUENE	ND	5
1,1-DICHLOROETHANE	ND	5	CHLOROBENZENE	ND	5
PENTANONE	ND	10	ETHYLBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	STYRENE	ND	5
IRON TETRACHLORIDE	ND	5	XYLENES (TOTAL)	ND	5
ETHYL ACETATE	ND	10	TRICHLOROFLUOROMETHANE	ND	5
1,1-DICHLOROMETHANE	ND	5	1,2-DICHLOROBENZENE	ND	5
1,1-DICHLOROPROPANE	ND	5	1,3-DICHLOROBENZENE	ND	5
CIS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLOROBENZENE	ND	5
1,1-DICHLOROETHENE	ND	5			

Surrogates	% Recovery	Limits
TOLUENE-D8	102	81 - 117
BROMOFLUOROBENZENE	92	74 - 121
1,2-DICHLOROETHANE-D4	96	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable.

B indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

D Surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOWAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-30

LAB SAMPLE ID: C205005-11A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/05/92

Results in UG/KG:

	Detection Limit		Detection Limit
CHLOROMETHANE	ND	1200	DIBROMOCHLOROMETHANE ND 620
BROMOMETHANE	ND	1200	1,1,2-TRICHLOROETHANE ND 620
VINYL CHLORIDE	ND	1200	BENZENE ND 620
CHLOROETHANE	ND	1200	CIS-1,3-DICHLOROPROPENE ND 620
METHYLENE CHLORIDE	ND	620	2-CHLOROETHYLVINYL ETHER ND 1200
ACETONE	ND	1200	BROMOFORM ND 620
CARBON DISULFIDE	ND	620	2-HEXANONE ND 1200
1,1-DICHLOROETHENE	ND	620	4-METHYL-2-PENTANONE ND 1200
1,1-DICHLOROETHANE	ND	620	TETRACHLOROETHENE ND 620
1,2-DICHLOROETHENE (TOTAL)	ND	620	1,1,2,2-TETRACHLOROETHANE ND 620
CHLOROFORM	ND	620	TOLUENE ND 620
1,2-DICHLOROETHANE	ND	620	CHLOROBENZENE ND 620
2-BUTANONE	ND	1200	ETHYLBENZENE 3900 620
1,1,1-TRICHLOROETHANE	ND	620	STYRENE ND 620
CARBON TETRACHLORIDE	ND	620	XYLENES (TOTAL) 6600 620
VINYL ACETATE	ND	1200	TRICHLOROFLUOROMETHANE ND 620
BROMODICHLOROMETHANE	ND	620	1,2-DICHLOROBENZENE ND 620
1,2-DICHLOROPROPANE	ND	620	1,3-DICHLOROBENZENE ND 620
TRANS-1,3-DICHLOROPROPENE	ND	620	1,4-DICHLOROBENZENE ND 620
TRICHLOROETHENE	ND	620	

Surrogates	% Recovery	Limits
TOLUENE-D8	104	81 - 117
BROMOFLUOROBENZENE	104	74 - 121
1,2-DICHLOROETHANE-D4	98	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable.

B indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

D Surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOWAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-31

LAB SAMPLE ID: C205005-12A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/05/92

Results in UG/KG:

		Detection Limit		Detection Limit
BROMOMETHANE	ND	1200	DIBROMOCHLOROMETHANE	ND 620
CHLOROMETHANE	ND	1200	1,1,2-TRICHLOROETHANE	ND 620
ETHYL CHLORIDE	ND	1200	BENZENE	650 620
BROMOETHANE	ND	1200	CIS-1,3-DICHLOROPROPENE	ND 620
ETHYLENE CHLORIDE	ND	620	2-CHLOROETHYL VINYL ETHER	ND 1200
ACETONE	ND	1200	BROMOFORM	ND 620
IRON DISULFIDE	ND	620	2-HEXANONE	ND 1200
-DICHLOROETHENE	ND	620	4-METHYL-2-PENTANONE	ND 1200
-DICHLOROETHANE	ND	620	TETRACHLOROETHENE	ND 620
-DICHLOROETHENE (TOTAL)	ND	620	1,1,2,2-TETRACHLOROETHANE	ND 620
BROMOFORM	ND	620	TOLUENE	ND 620
-DICHLOROETHANE	ND	620	CHLOROETHANE	ND 620
PENTANONE	ND	1200	ETHYLBENZENE	18000 620
1-TRICHLOROETHANE	ND	620	STYRENE	ND 620
IRON TETRACHLORIDE	ND	620	XYLENES (TOTAL)	ND 620
ETHYL ACETATE	ND	1200	TRICHLOROFLUOROMETHANE	ND 620
1,1-DICHLOROMETHANE	ND	620	1,2-DICHLOROETHANE	ND 620
-DICHLOROPROPANE	ND	620	1,3-DICHLOROETHANE	ND 620
CIS-1,3-DICHLOROPROPENE	ND	620	1,4-DICHLOROETHANE	ND 620
1,1-DICHLOROETHANE	ND	620		

Surrogates	% Recovery	Limits
TOLUENE-D8	93	81 - 117
BROMOFLUOROBENZENE	121	74 - 121
1,2-DICHLOROETHANE-D4	101	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable.

B indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

D surrogate is diluted out.

Company: IT CORPORATION
 Date: 05/14/92
 Client Work ID: HOLLOWAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-32
 LAB SAMPLE ID: C205005-13A
 SAMPLE DATE: 04/30/92
 ANALYSIS DATE: 05/05/92

Results in UG/KG:

	Detection Limit		Detection Limit		
CHLOROMETHANE	ND	50	DIBROMOCHLOROMETHANE	ND	25
BROMOMETHANE	ND	50	1,1,2-TRICHLOROETHANE	ND	25
VINYL CHLORIDE	ND	50	BENZENE	ND	25
CHLOROETHANE	ND	50	CIS-1,3-DICHLOROPROPENE	ND	25
METHYLENE CHLORIDE	ND	25	2-CHLOROETHYLVINYL ETHER	ND	50
ACETONE	ND	50	BROMOFORM	ND	25
CARBON DISULFIDE	ND	25	2-HEXANONE	ND	50
1,1-DICHLOROETHENE	ND	25	4-METHYL-2-PENTANONE	ND	50
1,1-DICHLOROETHANE	ND	25	TETRACHLOROETHENE	ND	25
1,2-DICHLOROETHENE (TOTAL)	ND	25	1,1,2,2-TETRACHLOROETHANE	ND	25
CHLOROFORM	ND	25	TOLUENE	ND	25
1,2-DICHLOROETHANE	ND	25	CHLOROENZENE	ND	25
2-BUTANONE	ND	50	ETHYLBENZENE	ND	25
1,1,1-TRICHLOROETHANE	ND	25	STYRENE	ND	25
CARBON TETRACHLORIDE	ND	25	XYLENES (TOTAL)	ND	25
VINYL ACETATE	ND	50	TRICHLOROFLUOROMETHANE	ND	25
BROMODICHLOROMETHANE	ND	25	1,2-DICHLOROENZENE	ND	25
1,2-DICHLOROPROPANE	ND	25	1,3-DICHLOROENZENE	ND	25
TRANS-1,3-DICHLOROPROPENE	ND	25	1,4-DICHLOROENZENE	ND	25
TRICHLOROETHENE	ND	25			

Surrogates	% Recovery	Limits
TOLUENE-D8	100	81 - 117
BROMOFLUROBENZENE	111	74 - 121
1,2-DICHLOROETHANE-D4	91	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

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D surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOWAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-33

LAB SAMPLE ID: C205005-14A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/04/92

Results in UG/KG:

	Detection Limit		Detection Limit
BROMOMETHANE	ND	10	DIBROMOCHLOROMETHANE ND 5
BROMOMETHANE	ND	10	1,1,2-TRICHLOROETHANE ND 5
ETHYL CHLORIDE	ND	10	BENZENE ND 5
BROMOETHANE	ND	10	CIS-1,3-DICHLOROPROPENE ND 5
ETHYLENE CHLORIDE	ND	5	2-CHLOROETHYL VINYL ETHER ND 10
BROMONE	ND	10	BROMOFORM ND 5
BROMON DISULFIDE	ND	5	2-HEXANONE ND 10
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE ND 10
1,1-DICHLOROETHANE	ND	5	TETRACHLOROETHENE ND 5
1,1-DICHLOROETHENE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE ND 5
BROMOFORM	ND	5	TOLUENE ND 5
1,1-DICHLOROETHANE	ND	5	CHLOROBENZENE ND 5
BUTANONE	ND	10	ETHYLBENZENE ND 5
1,1,1-TRICHLOROETHANE	ND	5	STYRENE ND 5
BROMON TETRACHLORIDE	ND	5	XYLENES (TOTAL) ND 5
ETHYL ACETATE	ND	10	TRICHLOROFLUOROMETHANE ND 5
1,1-DICHLOROMETHANE	ND	5	1,2-DICHLOROBENZENE ND 5
1,1-DICHLOROPROPANE	ND	5	1,3-DICHLOROBENZENE ND 5
CIS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLOROBENZENE ND 5
1,1-DICHLOROETHENE	ND	5	

Surrogates	% Recovery	Limits
TOLUENE-D8	105	81 - 117
BROMOFLUOROBENZENE	92	74 - 121
1,2-DICHLOROETHANE-D4	93	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable.

B indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

D Surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOWAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-34

LAB SAMPLE ID: C205005-15A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/04/92

Results in UG/KG:

	Detection Limit		Detection Limit		
CHLOROMETHANE	ND	10	DIBROMOCHLOROMETHANE	ND	5
BROMOMETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
VINYL CHLORIDE	ND	10	BENZENE	ND	5
CHLOROETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
METHYLENE CHLORIDE	7	5	2-CHLOROETHYL VINYL ETHER	ND	10
ACETONE	ND	10	BROMOFORM	ND	5
CARBON DISULFIDE	ND	5	2-HEXANONE	ND	10
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	TETRACHLOROETHENE	ND	5
1,2-DICHLOROETHENE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	CHLORO BENZENE	ND	5
2-BUTANONE	ND	10	ETHYLBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	STYRENE	ND	5
CARBON TETRACHLORIDE	ND	5	XYLENES (TOTAL)	ND	5
VINYL ACETATE	ND	10	TRICHLOROFLUOROMETHANE	ND	5
BROMODICHLOROMETHANE	ND	5	1,2-DICHLOROBENZENE	ND	5
1,2-DICHLOROPROPANE	ND	5	1,3-DICHLOROBENZENE	ND	5
TRANS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLOROBENZENE	ND	5
TRICHLOROETHENE	ND	5			

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	92	74 - 121
1,2-DICHLOROETHANE-D4	93	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.
 'NA' indicates not applicable.
 B indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.
 D Surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOMAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-35

LAB SAMPLE ID: C205005-16A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/04/92

		Results in UG/KG:			
	Detection			Detection	
	Limit			Limit	
OROMETHANE	ND	10	DIBROMOCHLOROMETHANE	ND	5
MOMETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
YL CHLORIDE	ND	10	BENZENE	ND	5
OROETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
HYLENE CHLORIDE	5	5	2-CHLOROETHYL VINYL ETHER	ND	10
TONE	ND	10	BROMOFORM	ND	5
BON DISULFIDE	ND	5	2-HEXANONE	ND	10
-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
-DICHLOROETHANE	ND	5	TETRACHLOROETHENE	ND	5
-DICHLOROETHENE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
OROFORM	ND	5	TOLUENE	ND	5
-DICHLOROETHANE	ND	5	CHLORO BENZENE	ND	5
UTANONE	ND	10	ETHYLBENZENE	ND	5
,1-TRICHLOROETHANE	ND	5	STYRENE	ND	5
BON TETRACHLORIDE	ND	5	XYLENES (TOTAL)	ND	5
YL ACETATE	ND	10	TRICHLOROFLUOROMETHANE	ND	5
MODICHLOROMETHANE	ND	5	1,2-DICHLORO BENZENE	ND	5
-DICHLOROPROPANE	ND	5	1,3-DICHLORO BENZENE	ND	5
NS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLORO BENZENE	ND	5
CHLOROETHENE	ND	5			

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	91	74 - 121
1,2-DICHLOROETHANE-D4	82	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable.

B indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

D Surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: HOLLOWAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: VOLATILE ORGANICS

SAMPLE ID: 47-36

LAB SAMPLE ID: C205005-17A

SAMPLE DATE: 04/30/92

ANALYSIS DATE: 05/04/92

Results in UG/KG:

	Detection	Limit		Detection	Limit
CHLOROMETHANE	ND	10	DIBROMOCHLOROMETHANE	ND	5
BROMOMETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
VINYL CHLORIDE	ND	10	BENZENE	ND	5
CHLOROETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
METHYLENE CHLORIDE	6	5	2-CHLOROETHYLVINYL ETHER	ND	10
ACETONE	ND	10	BROMOFORM	ND	5
CARBON DISULFIDE	ND	5	2-HEXANONE	ND	10
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	TETRACHLOROETHENE	ND	5
1,2-DICHLOROETHENE (TOTAL)	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	CHLOROBENZENE	ND	5
2-BUTANONE	ND	10	ETHYLBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	STYRENE	ND	5
CARBON TETRACHLORIDE	ND	5	XYLENES (TOTAL)	ND	5
VINYL ACETATE	ND	10	TRICHLOROFLUOROMETHANE	ND	5
BROMODICHLOROMETHANE	ND	5	1,2-DICHLOROBENZENE	ND	5
1,2-DICHLOROPROPANE	ND	5	1,3-DICHLOROBENZENE	ND	5
TRANS-1,3-DICHLOROPROPENE	ND	5	1,4-DICHLOROBENZENE	ND	5
TRICHLOROETHENE	ND	5			

Surrogates	% Recovery	Limits
TOLUENE-D8	101	81 - 117
BROMOFLUOROBENZENE	95	74 - 121
1,2-DICHLOROETHANE-D4	94	70 - 121

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable.

B indicates analyte found in the associated blank as well as in the sample, value reported is not blank corrected.

D Surrogate is diluted out.

Company: IT CORPORATION

Date: 05/14/92

Client Work ID: BOLLOMAN AFB

519005-009

Work Order: C2-05-005

TEST NAME: TCLP BNA ANALYSIS

SAMPLE ID: SP-7

LAB SAMPLE ID: C205005-18A

SAMPLE DATE: 04/30/92

EXTRACTION DATE: 05/06/92

ANALYSIS DATE: 05/13/92

Results in UG/L :

Compound		Detection Limit
O-CRESOL	ND	40
M+P-CRESOL	ND	40
1,4-DICHLOROBENZENE	ND	40
2,4-DINITROTOLUENE	ND	40
HEXACHLOROBENZENE	ND	40
HEXACHLORO-1,3-BUTADIENE	ND	40
HEXACHLOROETHANE	ND	40
NITROBENZENE	ND	40
PENTACHLOROPHENOL	ND	200
PYRIDINE	ND	400
2,4,5-TRICHLOROPHENOL	ND	200
2,4,6-TRICHLOROPHENOL	ND	40

Surrogates	% Recovery
Nitrobenzene-D5	100
2-Fluorobiphenyl	99
Terphenyl-D14	93
Phenol-D6	101
2-Fluorophenol	101
2,4,6-Tribromophenol	103

Comments: 'ND' or '<' indicates that the compound is not detected at the specified limit.

'NA' indicates not applicable

'*' Surrogate recovery is outside QC limit.

'D' Surrogate is diluted out.